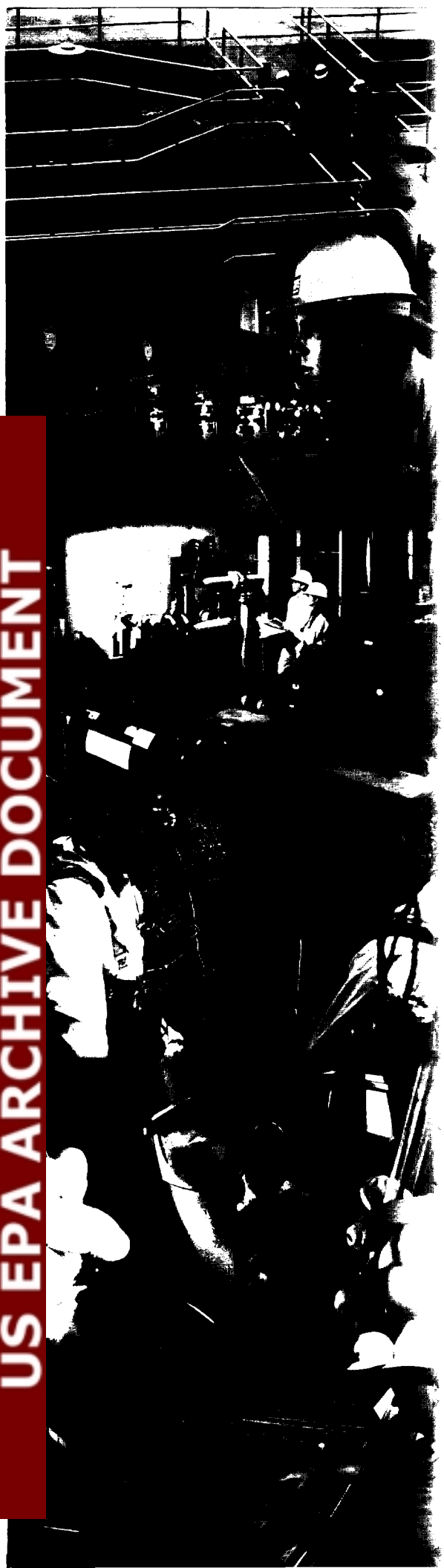

EPA CONTRACT NO. 68-W6-0042
EPA WORK ASSIGNMENT NO. 107-RICO-0146

EPA Project Officer: Diana King
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BASELINE HUMAN HEALTH AND ECOLOGICAL RISK ASSESSMENT REPORT

Wells G&H Superfund Site
Aberjona River Study
Operable Unit 3
Woburn, Massachusetts

Volume III
Tables - Sections 3 and 4

September 2004

Prepared By:

Metcalf & Eddy
701 Edgewater Drive
Wakefield, Massachusetts

M&E
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SECTION 3

TABLE 3-1

SELECTION OF EXPOSURE PATHWAYS

WELLS G&H SUPERFUND SITE OU3

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]	Sediment	Sediment	Stations 13/TT-27, JY, WW, BW, 10, 11, 12, 15, 18, 19, 20, 21, TT-28, TT-29, TT-31, TT-32, MP, UF, AO, LF, UM, LM, 06, 04, and 02	Recreational User	Adult	Dermal	None	It is unlikely that area residents currently use the Aberjona River for recreation at these stations due to their isolated nature.
						Ingestion	None	It is unlikely that area residents currently use the Aberjona River for recreation at these stations due to their isolated nature.
					Young Child	Dermal	None	It is unlikely that area residents currently use the Aberjona River for recreation at these stations due to their isolated nature.
						Ingestion	None	It is unlikely that area residents currently use the Aberjona River for recreation at these stations due to their isolated nature.
			Stations WS/WSS, CB-01, CB-02, CB-03, CB-04, and CB-06	Recreational User	Adult	Dermal	Quant	Nearby residents may currently use the Aberjona River for recreation at these stations with high frequency.
						Ingestion	Quant	Nearby residents may currently use the Aberjona River for recreation at these stations with high frequency.
					Young Child	Dermal	Quant	Nearby residents may currently use the Aberjona River for recreation at these stations with high frequency.
						Ingestion	Quant	Nearby residents may currently use the Aberjona River for recreation at these stations with high frequency.
			Stations NR, 14, 22/TT-22, WH, WG, TT-30, CB-07, 16/TT-33, 09, AM, KF, 08, 07/DP, LP, AS, 05, AJRW, and 03	Recreational User	Adult	Dermal	Quant	Area residents may currently use the Aberjona River for recreation at these stations with varying frequency, depending on accessibility.
						Ingestion	Quant	Area residents may currently use the Aberjona River for recreation at these stations with varying frequency, depending on accessibility.
					Young Child	Dermal	Quant	Area residents may currently use the Aberjona River for recreation at these stations with varying frequency, depending on accessibility.
						Ingestion	Quant	Area residents may currently use the Aberjona River for recreation at these stations with varying frequency, depending on accessibility.
			Station 01	Recreational User	Adult	Dermal	Quant	Area residents may currently use the Aberjona River for recreation (wading and swimming) at Sandy Beach (Station 01).
						Ingestion	Quant	Area residents may currently use the Aberjona River for recreation (wading and swimming) at Sandy Beach (Station 01).
					Young Child	Dermal	Quant	Area residents may currently use the Aberjona River for recreation (wading and swimming) at Sandy Beach (Station 01).
						Ingestion	Quant	Area residents may currently use the Aberjona River for recreation (wading and swimming) at Sandy Beach (Station 01).
	Surface Water	Surface Water	Reach 1, Upper and Lower Reach 2, Reach 3, Reach 4, Reach 5, and Upper Reach 6	Recreational User	Adult	Dermal	Quant	Area residents may currently use the Aberjona River for recreation (wading) with varying frequency, depending on accessibility and surrounding land use.
						Ingestion	None	Since surface waters are shallow, wading but not swimming is expected, and ingestion is unlikely.
					Young Child	Dermal	Quant	Area residents may currently use the Aberjona River for recreation (wading) with varying frequency, depending on accessibility and surrounding land use.
						Ingestion	None	Since surface waters are shallow, wading but not swimming is expected, and ingestion is unlikely.

TABLE 3-1

SELECTION OF EXPOSURE PATHWAYS

WELLS G&H SUPERFUND SITE OU3

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 (cont.)	Surface Water (cont.)	Surface Water (cont.)	Lower Reach 6 (Sandy Beach)	Recreational User	Adult	Dermal	Quant	Area residents may currently use the Aberjona River for recreation (wading and swimming) at Sandy Beach (Station 01).
						Ingestion	Quant	Area residents may currently use the Aberjona River for recreation (wading and swimming) at Sandy Beach (Station 01).
					Young Child	Dermal	Quant	Area residents may currently use the Aberjona River for recreation (wading and swimming) at Sandy Beach (Station 01).
						Ingestion	Quant	Area residents may currently use the Aberjona River for recreation (wading and swimming) at Sandy Beach (Station 01).
		Air	Reaches 1 through 6	Recreational User	Adult	Inhalation	None	Due to low levels of VOCs and dilution/dispersion into ambient air, this pathway is considered negligible.
					Young Child	Inhalation	None	Due to low levels of VOCs and dilution/dispersion into ambient air, this pathway is considered negligible.
Current/ Future [a]	Surface Water	Surface Water	Baseflow Surface Water (SW-05 through SW-09)	Recreational User	Adult	Dermal	Quant	Area residents use the Aberjona River for recreation (wading) with varying frequency, depending on accessibility and surrounding land use.
						Ingestion	None	Since surface waters are shallow, wading but not swimming is expected, and ingestion is unlikely.
					Young Child	Dermal	Quant	Area residents use the Aberjona River for recreation (wading) with varying frequency, depending on accessibility and surrounding land use.
						Ingestion	None	Since surface waters are shallow, wading but not swimming is expected, and ingestion is unlikely.
			Baseflow Surface Water (SW-10)	Recreational User	Adult	Dermal	Quant	Area residents use the Aberjona River for recreation (wading and swimming) in the vicinity of SW10.
						Ingestion	Quant	Area residents use the Aberjona River for recreation (wading and swimming) in the vicinity of SW10.
					Young Child	Dermal	Quant	Area residents use the Aberjona River for recreation (wading and swimming) in the vicinity of SW10.
						Ingestion	Quant	Area residents use the Aberjona River for recreation (wading and swimming) in the vicinity of SW10.
			Storm Event Surface Water (SW-05 through SW-10)	Area Resident	Adult	Dermal	Quant	When surface waters flood into nearby homes during storm events, residents contact contaminants in surface water.
						Ingestion	None	In a flooding scenario, wading but not swimming is expected, and ingestion is unlikely.
					Young Child	Dermal	Quant	When surface waters flood into nearby homes during storm events, residents contact contaminants in surface water.
						Ingestion	None	In a flooding scenario, wading but not swimming is expected, and ingestion is unlikely.

TABLE 3-1

SELECTION OF EXPOSURE PATHWAYS

WELLS G&H SUPERFUND SITE OU3

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/ Future [a] (cont.)	Soil	Surface Soil	Stations NR, DA, KF, AJRW, and 07/DP	Recreational User	Adult	Dermal	Quant	Area residents may be exposed to contaminants in surface soils during recreational activities at these stations.
						Ingestion	Quant	Area residents may be exposed to contaminants in surface soils during recreational activities at these stations.
					Young Child	Dermal	Quant	Area residents may be exposed to contaminants in surface soils during recreational activities at these stations.
						Ingestion	Quant	Area residents may be exposed to contaminants in surface soils during recreational activities at these stations.
			Stations WS/WSS and CB-05	Recreational User	Adult	Dermal	Quant	Nearby residents may be exposed to contaminants in surface soils with high frequency due to proximity to residences.
						Ingestion	Quant	Nearby residents may be exposed to contaminants in surface soils with high frequency due to proximity to residences.
					Young Child	Dermal	Quant	Nearby residents may be exposed to contaminants in surface soils with high frequency due to proximity to residences.
						Ingestion	Quant	Nearby residents may be exposed to contaminants in surface soils with high frequency due to proximity to residences.
			Residential Homes Near River (Stations WS/WSS, CB-05, 07/DP, KF, and AJRW)	Area Resident	Adult	Dermal	Quant	Flooding events may have resulted in contamination of residential yards, resulting in exposures to area residents.
						Ingestion	Quant	Flooding events may have resulted in contamination of residential yards, resulting in exposures to area residents.
					Young Child	Dermal	Quant	Flooding events may have resulted in contamination of residential yards, resulting in exposures to area residents.
						Ingestion	Quant	Flooding events may have resulted in contamination of residential yards, resulting in exposures to area residents.
	Surface Water/ Sediment	Fish Fillet Tissue	Reaches 3, 4, 5, and 6	Recreational User	Adult	Dermal	None	Exposure to contaminants in fish unlikely through dermal pathway.
						Ingestion	Quant	Possibility of contaminants in fish exposed to contaminated surface water.
					Older 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.
Future [a]	Sediment	Sediment	Stations BW, 10, 11, 12, 15, 18, 19, 20, 21, TT-28, TT-29, TT-32, MP, UF, AO, LF, UM, LM, 06, 04, and 02.	Recreational User	Adult	Dermal	None	It is unlikely that area residents will use the Aberjona River for recreation at these stations due to their isolated nature.
						Ingestion	None	It is unlikely that area residents will use the Aberjona River for recreation at these stations due to their isolated nature.
					Young Child	Dermal	None	It is unlikely that area residents will use the Aberjona River for recreation at these stations due to their isolated nature.
						Ingestion	None	It is unlikely that area residents will use the Aberjona River for recreation at these stations due to their isolated nature.

TABLE 3-1

SELECTION OF EXPOSURE PATHWAYS

WELLS G&H SUPERFUND SITE OU3

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 (cont.)	Sediment (cont.)	Sediment (cont.)	Stations WS/WSS, CB-01, CB-02, CB-03, CB-04, and CB-06	Recreational User	Adult	Dermal	Quant	Nearby residents may use the Aberjona River for recreation at these stations with high frequency.
						Ingestion	Quant	Nearby residents may use the Aberjona River for recreation at these stations with high frequency.
					Young Child	Dermal	Quant	Nearby residents may use the Aberjona River for recreation at these stations with high frequency.
						Ingestion	Quant	Nearby residents may use the Aberjona River for recreation at these stations with high frequency.
			Stations NR, 14, 22/TT-22, WH, WG, TT-30, CB-07, 16/TT-33, 09, AM, KF, 08, 07/DP, LP, AS, 05, 03, JY, WW, 13/TT-27, AJRW, and TT-31	Recreational User	Adult	Dermal	Quant	Area residents may use the Aberjona River for recreation at these stations with varying frequency, depending on accessibility.
						Ingestion	Quant	Area residents may use the Aberjona River for recreation at these stations with varying frequency, depending on accessibility.
					Young Child	Dermal	Quant	Area residents may use the Aberjona River for recreation at these stations with varying frequency, depending on accessibility.
						Ingestion	Quant	Area residents may use the Aberjona River for recreation at these stations with varying frequency, depending on accessibility.
			Station 01	Recreational User	Adult	Dermal	Quant	Area residents may use the Aberjona River for recreation (wading and swimming) at Sandy Beach (Station 01).
						Ingestion	Quant	Area residents may use the Aberjona River for recreation (wading and swimming) at Sandy Beach (Station 01).
					Young Child	Dermal	Quant	Area residents may use the Aberjona River for recreation (wading and swimming) at Sandy Beach (Station 01).
						Ingestion	Quant	Area residents may use the Aberjona River for recreation (wading and swimming) at Sandy Beach (Station 01).
			Stations NT-1, NT-2, and NT-3	Recreational User	Adult	Dermal	Quant	Proposed recreational scenario assuming future development of the 38-acre wetland.
						Ingestion	Quant	Proposed recreational scenario assuming future development of the 38-acre wetland.
					Young Child	Dermal	Quant	Proposed recreational scenario assuming future development of the 38-acre wetland.
						Ingestion	Quant	Proposed recreational scenario assuming future development of the 38-acre wetland.
	Sediment	Sediment Cores	SC05 through SC13	Dredger	Adult	Dermal	Quant	Dermal contact with sediments may occur should dredging of the river be necessary in the future.
						Ingestion	Quant	Incidental ingestion of sediments may occur during dredging.
	Surface Water	Surface Water	Reach 1, Upper and Lower Reach 2, Reach 3, Reach 4, Reach 5, and Upper Reach 6	Recreational User	Adult	Dermal	Quant	Area residents may continue to use the Aberjona River for recreation (wading) with varying frequency, depending on accessibility and surrounding land use.
						Ingestion	None	Since surface waters are shallow, wading but not swimming is expected, and ingestion is unlikely.
					Young Child	Dermal	Quant	Area residents may continue to use the Aberjona River for recreation (wading) with varying frequency, depending on accessibility and surrounding land use.
						Ingestion	None	Since surface waters are shallow, wading but not swimming is expected, and ingestion is unlikely.

TABLE 3-1

SELECTION OF EXPOSURE PATHWAYS

WELLS G&H SUPERFUND SITE OU3

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 (cont.)	Surface Water (cont.)	Surface Water (cont.)	Lower Reach 6 (Sandy Beach)	Recreational User	Adult	Dermal	Quant	Area residents may continue to use the Aberjona River for recreation (wading and swimming) at Sandy Beach (Station 01).
						Ingestion	Quant	Area residents may continue to use the Aberjona River for recreation (wading and swimming) at Sandy Beach (Station 01).
					Young Child	Dermal	Quant	Area residents may continue to use the Aberjona River for recreation (wading and swimming) at Sandy Beach (Station 01).
						Ingestion	Quant	Area residents may continue to use the Aberjona River for recreation (wading and swimming) at Sandy Beach (Station 01).
		Air	Reaches 1 through 6	Recreational User	Adult	Inhalation	None	Due to low levels of VOCs and dilution/dispersion into ambient air, this pathway is considered negligible.
					Young Child	Inhalation	None	Due to low levels of VOCs and dilution/dispersion into ambient air, this pathway is considered negligible.

[a] Exposure assumptions which account for frequency of contact with media from the Aberjona River vary between current and future scenarios. No station is defined as station 17.

TABLE 3-2.1
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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)
Combined Data (a)	67-66-3	Chloroform	1 J	1 J	ug/L	SW-05-01	1 / 16	1	1	N/A	0.62 N	5.7	AWQC	Y	ASL
	156-59-2	cis-1,2-Dichloroethene	1	4	ug/L	SW-16-01	3 / 16	1	4	N/A	6.1 N	N/A	N/A	N	BSL
	127-18-4	Tetrachloroethene	2	2	ug/L	SW-05-01	1 / 16	1	2	N/A	0.66 C	0.8	AWQC	Y	ASL
	79-01-6	Trichloroethene	2	2	ug/L	SW-09-01	2 / 16	1	2	N/A	0.028 C	2.7	AWQC	Y	ASL
	5103-71-9	alpha-Chlordane	0.0021 J	0.0021 J	ug/L	SW-12-01	1 / 17	0.05	0.0021	N/A	0.19 C	0.0021	AWQC	N	BSL
	33213-65-9	Endosulfan II	0.0015 J	0.0015 J	ug/L	SW-13-01	1 / 17	0.1	0.0015	N/A	22 N	110	AWQC	N	BSL
	5103-74-2	gamma-Chlordane	0.0014 J	0.0014 J	ug/L	SW-11-01	1 / 17	0.05	0.0014	N/A	0.19 C	0.0021	AWQC	N	BSL
	1024-57-3	Heptachlor epoxide	0.0011 J	0.0019 J	ug/L	SW-12-01	3 / 17	0.05	0.0019	N/A	0.0074 C	0.0001	AWQC	Y	ASL
	72-43-5	Methoxychlor	0.015 J	0.015 J	ug/L	SW-11-01	1 / 17	0.5	0.015	N/A	18 N	N/A	N/A	N	BSL
	7429-90-5	Aluminum	27.3	2180	ug/L	SW-10-01	15 / 17	31.1 - 36.9	2180	N/A	N/A	N/A	N/A	N	NTX
	7440-36-0	Antimony	1.3	1.5	ug/L	SW-10-01	2 / 17	1.1 - 1.2	1.5	N/A	1.5 N	14	AWQC	N	BSL
	7440-38-2	Arsenic	2.8	77.1	ug/L	SW-10-01	13 / 17	3.4 - 13.9	77.1	N/A	0.045 C	0.018	AWQC	Y	ASL
	7440-39-3	Barium	29.2	54.4	ug/L	SW-10-01	17 / 17	N/A	54.4	N/A	260 N	N/A	N/A	N	BSL
	7440-41-7	Beryllium	0.043	0.18	ug/L	SW-10-01	3 / 17	0.035 - 0.1	0.18	N/A	7.3 N	N/A	N/A	N	BSL
	7440-43-9	Cadmium	0.16	2.5	ug/L	SW-10-01	3 / 17	0.099 - 1.5	2.5	N/A	1.8 N	N/A	N/A	Y	ASL
	7440-70-2	Calcium	28100	87200	ug/L	SW-14-01	17 / 17	N/A	87200	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	0.72	146	ug/L	SW-10-01	17 / 17	N/A	146	N/A	11 N	N/A	N/A	Y	ASL
	7440-48-4	Cobalt	0.43	4.8	ug/L	SW-10-01	8 / 17	0.4 - 1.5	4.8	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	1.7	111	ug/L	SW-10-01	17 / 17	N/A	111	N/A	150 N	1300	AWQC	N	BSL
	7439-89-6	Iron	304	8470	ug/L	SW-10-01	17 / 17	N/A	8470	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	0.94	75.9 J	ug/L	SW-10-01	11/ 17	0.74 - 0.85	75.9	N/A	15 N	N/A	N/A	Y	ASL
	7439-95-4	Magnesium	5030	12100	ug/L	SW-12-01	17 / 17	N/A	12100	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	70.9	777.5	ug/L	SW-16-01	17 / 17	N/A	777.5	N/A	88 N	N/A	N/A	Y	ASL
	7439-97-6	Mercury	0.04 J	0.88	ug/L	SW-10-01	8 / 17	0.08 - 0.2	0.88	N/A	1.1 N	0.05	AWQC	Y	ASL
	7440-02-0	Nickel	0.89	6.2	ug/L	SW-10-01	17 / 17	N/A	6.2	N/A	73 N	610	AWQC	N	BSL
	7440-09-7	Potassium	3850	8040	ug/L	SW-12-01	17 / 17	N/A	8040	N/A	N/A	N/A	N/A	N	NUT
	7440-23-5	Sodium	49000	73200	ug/L	SW-12-01	17 / 17	N/A	73200	N/A	N/A	N/A	N/A	N	NUT
	7440-62-2	Vanadium	0.4925 J	7.4	ug/L	SW-10-01	14 / 17	0.55 - 1.2	7.4	N/A	26 N	N/A	N/A	N	BSL
	7440-66-6	Zinc	10.8	626 J	ug/L	SW-10-01	16 / 17	4	626	N/A	1100 N	9100	AWQC	N	BSL

(a) Data presented are from surface water samples SW-01-01, SW-02-01, SW-03-01, SW-04-01, SW-05-01, SW-06-01, SW-07-01, SW-08-01, SW-09-01, SW-10-01, SW-11-01, SW-12-01, SW-13-01, SW-14-01, SW-15-01, SW-16-01, and SW-18-01.
(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 1, 2002.
Lead value is is a drinking water criterion protective of blood lead levels in children (USEPA, 2002e).
PRG for chromium VI has been used for chromium.
PRG for chlordane used for gamma-chlordane and alpha-chlordane.
PRG for endosulfan used for endosulfan II.
PRG for mecury chloride 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
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 3-2.1.1
COPCs DETECTED IN SURFACE WATER - REACH 1
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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
Reach 1 (a)	67-66-3	Chloroform	ND	ND	ug/L	ND	0 / 6	1
	127-18-4	Tetrachloroethene	ND	ND	ug/L	ND	0 / 6	1
	79-01-6	Trichloroethene	ND	ND	ug/L	ND	0 / 6	1
	1024-57-3	Heptachlor epoxide	0.0011 J	0.0019 J	ug/L	SW-12-01	3 / 7	0.05
	7440-38-2	Arsenic	11.6	77.1	ug/L	SW-10-01	7 / 7	N/A
	7440-43-9	Cadmium	0.16	2.5	ug/L	SW-10-01	2 / 7	0.1 - 0.15
	7440-47-3	Chromium	2.2	146	ug/L	SW-10-01	7 / 7	N/A
	7439-92-1	Lead	0.94	75.9 J	ug/L	SW-10-01	4 / 7	0.74 - 0.85
	7439-96-5	Manganese	316	691	ug/L	SW-10-01	7 / 7	N/A
	7439-97-6	Mercury	0.12	0.88	ug/L	SW-10-01	3 / 7	0.08 - 0.095

(a) Data presented are from surface water samples SW-10-01 through SW-15-01, and SW-18-01; only COPCs selected on Table 3-2.1 appear.
(1) Minimum/maximum detected concentration.
Definitions: COPC = Chemical of Potential Concern
N/A = Not Applicable or Not Available
ND = Not Detected
J = Estimated Value

TABLE 3-2.1.2
COPCs DETECTED IN SURFACE WATER - UPPER REACH 2
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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
Upper Reach 2 (a)	67-66-3	Chloroform	ND	ND	ug/L	ND	0 / 2	1
	127-18-4	Tetrachloroethene	ND	ND	ug/L	ND	0 / 2	1
	79-01-6	Trichloroethene	2	2	ug/L	SW-16-01	2 / 2	N/A
	1024-57-3	Heptachlor epoxide	ND	ND	ug/L	ND	0 / 2	0.05
	7440-38-2	Arsenic	11.5	19.75	ug/L	SW-16-01	2 / 2	N/A
	7440-43-9	Cadmium	0.23	0.23	ug/L	SW-16-01	1 / 2	1.5
	7440-47-3	Chromium	4.3	12.1	ug/L	SW-16-01	2 / 2	N/A
	7439-92-1	Lead	1.8	7.7 J	ug/L	SW-16-01	2 / 2	N/A
	7439-96-5	Manganese	644 J	777.5	ug/L	SW-16-01	2 / 2	N/A
	7439-97-6	Mercury	0.1475 J	0.1475 J	ug/L	SW-16-01	1 / 2	0.20

(a) Data presented are from surface water samples SW-09-01 and SW-16-01; only COPCs selected on Table 3-2.1 appear.
(1) Minimum/maximum detected concentration.
Definitions: COPC = Chemical of Potential Concern
N/A = Not Applicable or Not Available
ND = Not Detected
J = Estimated Value

TABLE 3-2.1.3
COPCs DETECTED IN SURFACE WATER - LOWER REACH 2
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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
Lower Reach 2 (a)	67-66-3	Chloroform	ND	ND	ug/L	ND	0 / 1	1
	127-18-4	Tetrachloroethene	ND	ND	ug/L	ND	0 / 1	1
	79-01-6	Trichloroethene	ND	ND	ug/L	ND	0 / 1	1
	1024-57-3	Heptachlor epoxide	ND	ND	ug/L	ND	0 / 1	0.05
	7440-38-2	Arsenic	6.8	6.8	ug/L	SW-08-01	1 / 1	N/A
	7440-43-9	Cadmium	ND	ND	ug/L	ND	0 / 1	1.4
	7440-47-3	Chromium	2.2	2.2	ug/L	SW-08-01	1 / 1	N/A
	7439-92-1	Lead	ND	ND	ug/L	ND	0 / 1	0.85
	7439-96-5	Manganese	356 J	356 J	ug/L	SW-08-01	1 / 1	N/A
	7439-97-6	Mercury	ND	ND	ug/L	ND	0 / 1	0.20

(a) Data presented are from surface water sample SW-08-01; only COPCs selected on Table 3-2.1 appear.
(1) Minimum/maximum detected concentration.
Definitions: COPC = Chemical of Potential Concern
N/A = Not Applicable or Not Available
ND = Not Detected
J = Estimated Value

TABLE 3-2.1.4
COPCs DETECTED IN SURFACE WATER - REACH 3
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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
Reach 3 (a)	67-66-3	Chloroform	ND	ND	ug/L	ND	0 / 1	1
	127-18-4	Tetrachloroethene	ND	ND	ug/L	ND	0 / 1	1
	79-01-6	Trichloroethene	ND	ND	ug/L	ND	0 / 1	1
	1024-57-3	Heptachlor epoxide	ND	ND	ug/L	ND	0 / 1	0.05
	7440-38-2	Arsenic	ND	ND	ug/L	ND	0 / 1	14
	7440-43-9	Cadmium	ND	ND	ug/L	ND	0 / 1	0.099
	7440-47-3	Chromium	3.1	3.1	ug/L	SW-07-01	1 / 1	N/A
	7439-92-1	Lead	4.3	4.3	ug/L	SW-07-01	1 / 1	N/A
	7439-96-5	Manganese	585	585	ug/L	SW-07-01	1 / 1	N/A
	7439-97-6	Mercury	0.22 J	0.22 J	ug/L	SW-07-01	1 / 1	N/A

(a) Data presented are from surface water sample SW-07-01; only COPCs selected on Table 3-2.1 appear.
(1) Minimum/maximum detected concentration.
Definitions: COPC = Chemical of Potential Concern
N/A = Not Applicable or Not Available
ND = Not Detected
J = Estimated Value

TABLE 3-2.1.5
COPCs DETECTED IN SURFACE WATER - REACH 4
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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
Reach 4 (a)	67-66-3	Chloroform	ND	ND	ug/L	ND	0 / 1	1
	127-18-4	Tetrachloroethene	ND	ND	ug/L	ND	0 / 1	1
	79-01-6	Trichloroethene	ND	ND	ug/L	ND	0 / 1	1
	1024-57-3	Heptachlor epoxide	ND	ND	ug/L	ND	0 / 1	0.05
	7440-38-2	Arsenic	ND	ND	ug/L	ND	0 / 1	6.5
	7440-43-9	Cadmium	ND	ND	ug/L	ND	0 / 1	0.099
	7440-47-3	Chromium	4.3	4.3	ug/L	SW-06-01	1 / 1	N/A
	7439-92-1	Lead	5.7	5.7	ug/L	SW-06-01	1 / 1	N/A
	7439-96-5	Manganese	504	504	ug/L	SW-06-01	1 / 1	N/A
	7439-97-6	Mercury	ND	ND	ug/L	ND	0 / 1	0.20

(a) Data presented are from surface water sample SW-06-01; only COPCs selected on Table 3-2.1 appear.
(1) Minimum/maximum detected concentration.
Definitions: COPC = Chemical of Potential Concern
N/A = Not Applicable or Not Available
ND = Not Detected
J = Estimated Value

TABLE 3-2.1.6
COPCs DETECTED IN SURFACE WATER - REACH 5
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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
Reach 5 (a)	67-66-3	Chloroform	1 J	1 J	ug/L	SW-05-01	1 / 1	N/A
	127-18-4	Tetrachloroethene	2	2	ug/L	SW-05-01	1 / 1	N/A
	79-01-6	Trichloroethene	ND	ND	ug/L	ND	0 / 1	1
	1024-57-3	Heptachlor epoxide	ND	ND	ug/L	ND	0 / 1	0.05
	7440-38-2	Arsenic	ND	ND	ug/L	ND	0 / 1	3.4
	7440-43-9	Cadmium	ND	ND	ug/L	ND	0 / 1	0.099
	7440-47-3	Chromium	0.85	0.85	ug/L	SW-05-01	1 / 1	N/A
	7439-92-1	Lead	ND	ND	ug/L	ND	0 / 1	0.84
	7439-96-5	Manganese	320	320	ug/L	SW-05-01	1 / 1	N/A
	7439-97-6	Mercury	ND	ND	ug/L	ND	0 / 1	0.20

(a) Data presented are from surface water sample SW-05-01; only COPCs selected on Table 3-2.1 appear.
(1) Minimum/maximum detected concentration.
Definitions: COPC = Chemical of Potential Concern
N/A = Not Applicable or Not Available
ND = Not Detected
J = Estimated Value

TABLE 3-2.1.7
COPCs DETECTED IN SURFACE WATER - UPPER REACH 6
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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
Upper Reach 6 (a)	67-66-3	Chloroform	ND	ND	ug/L	ND	0 / 3	1
	127-18-4	Tetrachloroethene	ND	ND	ug/L	ND	0 / 3	1
	79-01-6	Trichloroethene	ND	ND	ug/L	ND	0 / 3	1
	1024-57-3	Heptachlor epoxide	ND	ND	ug/L	ND	0 / 3	0.05
	7440-38-2	Arsenic	2.8	5.2	ug/L	SW-03-01	2 / 3	6.5
	7440-43-9	Cadmium	ND	ND	ug/L	ND	0 / 3	0.099 - 0.1
	7440-47-3	Chromium	0.72	3.7	ug/L	SW-03-01	3 / 3	N/A
	7439-92-1	Lead	1.7	7.5 J	ug/L	SW-03-01	2 / 3	0.85
	7439-96-5	Manganese	97.4	317	ug/L	SW-04-01	3 / 3	N/A
	7439-97-6	Mercury	0.062 J	0.069 J	ug/L	SW-03-01	2 / 3	0.20

(a) Data presented are from surface water samples SW-02-01 through SW-04-01; only COPCs selected on Table 3-2.1 appear.
(1) Minimum/maximum detected concentration.
Definitions: COPC = Chemical of Potential Concern
N/A = Not Applicable or Not Available
ND = Not Detected
J = Estimated Value

TABLE 3-2.1.8
COPCs DETECTED IN SURFACE WATER - LOWER REACH 6 (SANDY BEACH)
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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
Lower Reach 6 (Sandy Beach) (a)	67-66-3	Chloroform	ND	ND	ug/L	ND	0 / 1	1
	127-18-4	Tetrachloroethene	ND	ND	ug/L	ND	0 / 1	1
	79-01-6	Trichloroethene	ND	ND	ug/L	ND	0 / 1	1
	1024-57-3	Heptachlor epoxide	ND	ND	ug/L	ND	0 / 1	0.05
	7440-38-2	Arsenic	3.1	3.1	ug/L	SW-01-01	1 / 1	N/A
	7440-43-9	Cadmium	ND	ND	ug/L	ND	0 / 1	0.099
	7440-47-3	Chromium	1.5	1.5	ug/L	SW-01-01	1 / 1	N/A
	7439-92-1	Lead	4.1 J	4.1 J	ug/L	SW-01-01	1 / 1	N/A
	7439-96-5	Manganese	70.9	70.9	ug/L	SW-01-01	1 / 1	N/A
	7439-97-6	Mercury	0.04 J	0.04 J	ug/L	SW-01-01	1 / 1	N/A

(a) Data presented are from surface water sample SW-01-01; only COPCs selected on Table 3-2.1 appear.
(1) Minimum/maximum detected concentration.
Definitions: COPC = Chemical of Potential Concern
N/A = Not Applicable or Not Available
ND = Not Detected
J = Estimated Value

TABLE 3-2.2
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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)
Combined Data (a)	71-55-6	1,1,1-Trichloroethane	0.059 J	0.059 J	mg/Kg	SD-13-01-TR	1 / 52	0.011 - 0.309	0.059	N/A	120 N	N/A	N/A	N	BSL
	540-59-0	1,2-Dichloroethene(total)	0.0090 J	0.016 J	mg/Kg	SD-19-01-FW	2 / 38	0.011 - 0.028	0.016	N/A	4.3 N	N/A	N/A	N	BSL
	78-93-3	2-Butanone	0.0103 J	0.29 J	mg/Kg	SD-19-01-FW	8 / 43	0.011 - 0.028	0.29	N/A	730 N	N/A	N/A	N	BSL
	67-64-1	Acetone	0.058 J	4.3 J	mg/Kg	SD-13-01-TR	10 / 45	0.01 - 0.28	4.3	N/A	160 N	N/A	N/A	N	BSL
	71-43-2	Benzene	0.0070 J	0.0090 J	mg/Kg	SD-03-02-ME	3 / 46	0.011 - 0.041	0.0090	N/A	0.6 C	N/A	N/A	N	BSL
	156-59-2	cis-1,2-Dichloroethene	0.018 J	0.42 J	mg/Kg	SD-12-01-ME	7 / 9	0.022 - 0.103	0.42	N/A	4.3 N	N/A	N/A	N	BSL
	100-41-4	Ethylbenzene	0.0090 J	0.0090 J	mg/Kg	SD-13-01-ME	1 / 46	0.011 - 0.041	0.0090	N/A	8.9 C	N/A	N/A	N	BSL
	75-09-2	Methylene chloride	0.028 J	0.10 J	mg/Kg	SD-22-03-FW	2 / 53	0.011 - 0.309	0.10	N/A	9.1 C	N/A	N/A	N	BSL
	127-18-4	Tetrachloroethene	0.12	3.2	mg/Kg	SD-22-02-ME	4 / 48	0.011 - 0.309	3.2	N/A	1.5 C	N/A	N/A	Y	ASL
	108-88-3	Toluene	0.0030 J	0.003 J	mg/Kg	SD-14-03-FW	1 / 38	0.011 - 0.028	0.003	N/A	52 N	N/A	N/A	N	BSL
	79-01-6	Trichloroethene	0.021 J	0.80	mg/Kg	SD-22-02-ME	8 / 48	0.011 - 0.103	0.80	N/A	0.053 C	N/A	N/A	Y	ASL
	91-57-6	2-Methylnaphthalene	0.013 J	0.22 J	mg/Kg	SD-09-06-FW	11 / 51	0.001 - 2.7	0.22	N/A	5.6 N	N/A	N/A	N	BSL
	83-32-9	Acenaphthene	0.0030 J	0.52	mg/Kg	SD-09-06-FW	17 / 52	0.001 - 2.3	0.52	N/A	370 N	N/A	N/A	N	BSL
	208-96-8	Acenaphthylene	0.0010 J	0.48 J	mg/Kg	SD-07-10-FW	16 / 51	0.001 - 2.7	0.48	N/A	5.6 N	N/A	N/A	N	BSL
	120-12-7	Anthracene	0.018 J	1.1 J	mg/Kg	SD-07-09-FW	24 / 52	0.067 - 2.3	1.1	N/A	2200 N	N/A	N/A	N	BSL
	56-55-3	Benzo(a)anthracene	0.040 J	9.6	mg/Kg	SD-07-10-ME	44 / 58	0.067 - 0.87	9.6	N/A	0.62 C	N/A	N/A	Y	ASL
	50-32-8	Benzo(a)pyrene	0.045 J	10	mg/Kg	SD-07-10-ME	43 / 55	0.067 - 2.1	10	N/A	0.062 C	N/A	N/A	Y	ASL
	205-99-2	Benzo(b)fluoranthene	0.045 J	16 J	mg/Kg	SD-07-10-ME	47 / 59	0.067 - 0.87	16	N/A	0.62 C	N/A	N/A	Y	ASL
	191-24-2	Benzo(g,h,i)perylene	0.044 J	5.3	mg/Kg	SD-07-10-ME	27 / 55	0.067 - 2.3	5.3	N/A	5.6 N	N/A	N/A	N	BSL
	207-08-9	Benzo(k)fluoranthene	0.045 J	14 J	mg/Kg	SD-07-05-FW	45 / 58	0.067 - 2.3	14	N/A	6.2 C	N/A	N/A	Y	ASL
	117-81-7	bis(2-Ethylhexyl)phthalate	0.064 J	13 J	mg/Kg	SD-07-05-FW	29 / 50	0.13 - 2.1	13	N/A	35 C	N/A	N/A	N	BSL
	85-68-7	Butylbenzylphthalate	0.13 J	0.62 J	mg/Kg	SD-07-05-FW	6 / 45	0.13 - 2.3	0.62	N/A	1200 N	N/A	N/A	N	BSL
	86-74-8	Carbazole	0.063 J	0.68 J	mg/Kg	SD-07-09-FW	14 / 45	0.13 - 2.3	0.68	N/A	24 C	N/A	N/A	N	BSL
	218-01-9	Chrysene	0.048 J	10	mg/Kg	SD-07-10-ME	46 / 58	0.067 - 0.87	10	N/A	62 C	N/A	N/A	N	BSL
	53-70-3	Dibenz(a,h)anthracene	0.044 J	2.0	mg/Kg	SD-07-10-ME	19 / 53	0.002 - 2.3	2.0	N/A	0.062 C	N/A	N/A	Y	ASL
	132-64-9	Dibenzofuran	0.056 J	0.50	mg/Kg	SD-09-06-FW	6 / 43	0.13 - 2.7	0.50	N/A	29 N	N/A	N/A	N	BSL
	84-66-2	Diethylphthalate	0.24 J	0.24 J	mg/Kg	SD-07-04-FW	1 / 43	0.13 - 2.7	0.24	N/A	4900 N	N/A	N/A	N	BSL
	117-84-0	Di-n-octylphthalate	0.14 J	0.43 J	mg/Kg	SD-07-05-FW	2 / 44	0.13 - 2.7	0.43	N/A	240 N	N/A	N/A	N	BSL
	206-44-0	Fluoranthene	0.042 J	23	mg/Kg	SD-07-10-ME	51 / 59	0.067 - 0.72	23	N/A	230 N	N/A	N/A	N	BSL
	86-73-7	Fluorene	0.014 J	0.81	mg/Kg	SD-09-06-FW	22 / 52	0.001 - 2.3	0.81	N/A	270 N	N/A	N/A	N	BSL
	193-39-5	Indeno(1,2,3-cd)pyrene	0.021 J	6.9	mg/Kg	SD-07-10-ME	33 / 57	0.067 - 2.3	6.9	N/A	0.62 C	N/A	N/A	Y	ASL
	91-20-3	Naphthalene	0.012 J	0.25 J	mg/Kg	SD-09-06-FW	16 / 51	0.001 - 2.7	0.25	N/A	5.6 N	N/A	N/A	N	BSL
	86-30-6	N-nitrosodiphenylamine	0.058 J	0.10 J	mg/Kg	SD-12-03-FW	2 / 43	0.13 - 2.7	0.10	N/A	99 C	N/A	N/A	N	BSL
	85-01-8	Phenanthrene	0.062 J	12	mg/Kg	SD-07-10-ME	40 / 56	0.067 - 0.87	12	N/A	5.6 N	N/A	N/A	Y	ASL
	129-00-0	Pyrene	0.052 J	15	mg/Kg	SD-07-10-ME	49 / 58	0.067 - 0.87	15	N/A	230 N	N/A	N/A	N	BSL

TABLE 3-2.2
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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)
	72-54-8	4,4'-DDD	0.00046 J	0.31	mg/Kg	SD-13-03-ME	37 / 54	0.00031 - 0.023	0.31	N/A	2.4 C	N/A	N/A	N	BSL
	72-55-9	4,4'-DDE	0.000089 J	0.13	mg/Kg	SD-13-03-ME	44 / 57	0.00031 - 0.023	0.13	N/A	1.7 C	N/A	N/A	N	BSL
	50-29-3	4,4'-DDT	0.00029 J	0.047	mg/Kg	SD-07-10-FW	34 / 54	0.00031 - 0.023	0.047	N/A	1.7 C	N/A	N/A	N	BSL
	309-00-2	Aldrin	0.00012 J	0.0057	mg/Kg	SD-07-09-FW	18 / 52	0.00015 - 0.012	0.0057	N/A	0.029 C	N/A	N/A	N	BSL
	319-84-6	alpha-BHC	0.00011 J	0.0025 J	mg/Kg	SD-07-05-FW	11 / 52	0.00015 - 0.012	0.0025	N/A	0.09 C	N/A	N/A	N	BSL
	5103-71-9	alpha-Chlordane	0.00028 J	0.093	mg/Kg	SD-13-03-ME	35 / 55	0.00015 - 0.011	0.093	N/A	1.6 C	N/A	N/A	N	BSL
	12672-29-6	Aroclor 1248	0.0081 J	0.17 J	mg/Kg	SD-13-03-ME	8 / 58	0.0031 - 0.44	0.17	N/A	0.22 C	N/A	N/A	N	BSL
	11097-69-1	Aroclor 1254	0.045	2.6	mg/Kg	SD-JY-07	10 / 58	0.0031 - 0.44	2.6	N/A	0.22 C	N/A	N/A	Y	ASL
	11096-82-5	Aroclor 1260	0.011	2.4	mg/Kg	SD-JY-07	18 / 59	0.0031 - 0.44	2.4	N/A	0.22 C	N/A	N/A	Y	ASL
	319-85-7	beta-BHC	0.0001 J	0.0066	mg/Kg	SD-07-07-FW	17 / 55	0.00015 - 0.012	0.0066	N/A	0.32 C	N/A	N/A	N	BSL
	319-86-8	delta-BHC	0.00008 J	0.024 J	mg/Kg	SD-07-05-ME	12 / 50	0.00015 - 0.012	0.024	N/A	0.09 C	N/A	N/A	N	BSL
	60-57-1	Dieldrin	0.00019 J	0.02 J	mg/Kg	SD-14-03-FW	32 / 54	0.00031 - 0.021	0.02	N/A	0.03 C	N/A	N/A	N	BSL
	959-98-8	Endosulfan I	0.00011 J	0.018 J	mg/Kg	SD-14-03-FW	12 / 51	0.00015 - 0.011	0.018	N/A	37 N	N/A	N/A	N	BSL
	33213-65-9	Endosulfan II	0.00024 J	0.0084 J	mg/Kg	SD-07-09-FW	14 / 51	0.00031 - 0.023	0.0084	N/A	37 N	N/A	N/A	N	BSL
	1031-07-8	Endosulfan Sulfate	0.00038 J	0.0039 J	mg/Kg	SD-07-04-FW	3 / 49	0.00031 - 0.023	0.0039	N/A	37 N	N/A	N/A	N	BSL
	72-20-8	Endrin	0.0001 J	0.017 J	mg/Kg	SD-07-05-ME	22 / 53	0.00031 - 0.023	0.017	N/A	1.8 N	N/A	N/A	N	BSL
	7421-36-3	Endrin Aldehyde	0.00047 J	0.01 J	mg/Kg	SD-13-03-FW	14 / 51	0.00031 - 0.023	0.01	N/A	1.8 N	N/A	N/A	N	BSL
	53494-70-5	Endrin Ketone	0.0018 J	0.0029 J	mg/Kg	SD-08-02-FW	3 / 48	0.00031 - 0.023	0.0029	N/A	1.8 N	N/A	N/A	N	BSL
	58-89-9	gamma-BHC (Lindane)	0.00023 J	0.00023 J	mg/Kg	SD-12-01-ME	1 / 48	0.00015 - 0.012	0.00023	N/A	0.44 C	N/A	N/A	N	BSL
	5103-74-2	gamma-Chlordane	0.00012 J	0.65 J	mg/Kg	SD-13-03-ME	35 / 56	0.00015 - 0.012	0.65	N/A	1.6 C	N/A	N/A	N	BSL
	76-44-8	Heptachlor	0.000067 J	0.00082 J	mg/Kg	SD-07-03-FW	10 / 49	0.00015 - 0.012	0.00082	N/A	0.11 C	N/A	N/A	N	BSL
	1024-57-3	Heptachlor Epoxide	0.00029 J	0.0049 J	mg/Kg	SD-22-01-FW	14 / 51	0.00015 - 0.012	0.0049	N/A	0.053 C	N/A	N/A	N	BSL
	72-43-5	Methoxychlor	0.012 J	0.012 J	mg/Kg	SD-07-10-FW	1 / 48	0.0015 - 0.12	0.012	N/A	31 N	N/A	N/A	N	BSL

TABLE 3-2.2
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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)
	7429-90-5	Aluminum	1865	34400 J	mg/Kg	SD-13-02-FW	233 / 233	3.3362 - 9.14	34400	N/A	N/A	N/A	N/A	N	NTX
	7440-36-0	Antimony	0.41 J	329 J	mg/Kg	SD-TT-22-01	128 / 215	0.26 - 6.6	329	N/A	3.1 N	N/A	N/A	Y	ASL
	7440-38-2	Arsenic	3.1	4250	mg/Kg	SD-19-01-TR	230 / 231	0.22 - 3.7	4250	N/A	0.39 C	N/A	N/A	Y	ASL
	7440-39-3	Barium	6	3420	mg/Kg	SD-WW-11	231 / 233	0.018 - 16.3	3420	N/A	540 N	N/A	N/A	Y	ASL
	7440-41-7	Beryllium	0.12	2.9	mg/Kg	SD-19-01-ME	189 / 232	0.016 - 0.65	2.9	N/A	15 N	N/A	N/A	N	BSL
	7440-43-9	Cadmium	0.089	34.6	mg/Kg	SD-CB-06-01	201 / 232	0.0049 - 5.7	34.6	N/A	3.7 N	N/A	N/A	Y	ASL
	7440-70-2	Calcium	493	30500 J	mg/Kg	SD-22-03-FW	233 / 233	1.6 - 9.5972	30500	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	3.3 J	24600 J	mg/Kg	SD-WW-08	233 / 233	0.055 - 1	24600	N/A	10000 N	N/A	N/A	Y	ASL
	7440-48-4	Cobalt	0.79	130 J	mg/Kg	SD-CB-03-06	233 / 233	0.3336 - 0.64	130	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	4.2 J	3760 J	mg/Kg	SD-TT-30-03	233 / 233	0.082 - 0.4799	3760	N/A	310 N	N/A	N/A	Y	ASL
	57-12-5	Cyanide	0.26 J	12.1 J	mg/Kg	SD-WS-08	38 / 80	0.0942 - 1.4	12.1	N/A	120 N	N/A	N/A	N	BSL
	7439-89-6	Iron	2310 J	258000	mg/Kg	SD-19-01-TR	233 / 233	0.57 - 6.9495	258000	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	1.9 J	41000 J	mg/Kg	SD-TT-22-01	233 / 233	0.2002 - 0.6	41000	N/A	400 N	N/A	N/A	Y	ASL
	7439-95-4	Magnesium	184 J	7610 J	mg/Kg	SD-13-03-FW	233 / 233	0.62 - 15.18	7610	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	34.4 J	2640 J	mg/Kg	SD-09-10-FW	233 / 233	0.018 - 0.4799	2640	N/A	180 N	N/A	N/A	Y	ASL
	7439-97-6	Mercury	0.05 J	89.2 J	mg/Kg	SD-TT-30-03	204 / 228	0.0048 - 0.39	89.2	N/A	0.61 N	N/A	N/A	Y	ASL
	7440-02-0	Nickel	0.59 J	177	mg/Kg	SD-CB-04-03	229 / 233	0.15 - 5.3	177	N/A	160 N	N/A	N/A	Y	ASL
	7440-09-7	Potassium	84 J	2030 J	mg/Kg	SD-13-03-FW	219 / 232	2.7 - 1160	2030	N/A	N/A	N/A	N/A	N	NUT
	7782-49-2	Selenium	0.53 J	26.3 J	mg/Kg	SD-13-01-FW	157 / 232	0.053 - 5	26.3	N/A	39 N	N/A	N/A	N	BSL
	7440-22-4	Silver	0.21 J	11.5	mg/Kg	SD-CB-04-02	57 / 212	0.0095 - 2	11.5	N/A	39 N	N/A	N/A	N	BSL
	7440-23-5	Sodium	30.85 J	8880 J	mg/Kg	SD-CB-03-06	189 / 229	0.22 - 708	8880	N/A	N/A	N/A	N/A	N	NUT
	7440-28-0	Thallium	0.2225 J	18.1 J	mg/Kg	SD-BW-03	111 / 222	0.039 - 3	18.1	N/A	0.52 N	N/A	N/A	Y	ASL
	7440-62-2	Vanadium	4.2	163	mg/Kg	SD-WH-04	233 / 233	0.073 - 0.64	163	N/A	55 N	N/A	N/A	Y	ASL
	7440-66-6	Zinc	15.2	8750	mg/Kg	SD-CB-04-03	228 / 233	0.16 - 634	8750	N/A	2300 N	N/A	N/A	Y	ASL
	7440-47-3	Chromium VI	1.2 J	32 J	mg/Kg	SD-WW-08	37 / 233	N/A	32	N/A	30 C	N/A	N/A	Y	ASL

(a) Data presented are from sediment samples SD-01-01-FW, SD-01-03-FW, SD-01-05-FW, SD-01-06-FW, SD-03-01-FW, SD-03-02-ME, SD-03-03-FW, SD-05-01-FW, SD-05-02-FW, SD-05-03-FW, SD-07-01-FW (and duplicate), SD-07-03-FW, SD-07-04-FW, SD-07-05-FW, SD-07-05-ME, SD-07-07-FW, SD-07-08-FW, SD-07-09-FW, SD-07-10-FW, SD-07-10-ME, SD-08-01-FW, SD-08-02-FW, SD-08-03-FW, SD-09-01-FW, SD-09-02-FW, SD-09-03-FW, SD-09-04-FW, SD-09-05-FW, SD-09-06-FW, SD-09-07-FW, SD-09-08-FW, SD-09-09-FW, SD-09-10-FW, SD-12-01-ME, SD-12-01-FW, SD-12-02-FW, SD-12-03-FW, SD-13-01-FW, SD-13-01-ME, SD-13-01-TR, SD-13-02-FW, SD-13-03-FW, SD-13-03-ME, SD-14-01-FW, SD-14-02-FW, SD-14-03-FW, SD-16-01-FW, SD-16-02-FW, SD-16-03-FW, SD-19-01-FW (and duplicate), SD-19-01-ME, SD-19-01-TR, SD-22-01-FW, SD-22-01-TR, SD-22-02-FW, SD-22-02-ME, SD-22-03-FW, SD-TT-22-01, SD-TT-22-02, SD-TT-22-03, SD-WS-01 (and duplicate), SD-WS-02 through SD-WS-10, SD-WG-01 through SD-WG-08, SD-WG-09 (and duplicate), SD-WG-10 through SD-WG-19, SD-WG-20 (and duplicate), SD-WH-01 through SD-WH-09, SD-WH-10 (and duplicate), SD-WH-07-TR (and duplicate), SD-WW-01 (and duplicate), SD-WW-02 through SD-WW-07, SD-WW-08, SD-WW-08-02, SD-WW-09 through SD-WW-12, SD-WW-06-TR, SD-TT-27-01, SD-TT-27-02 (and duplicate), SD-TT-27-03, SD-TT-29-01 (and duplicate), SD-TT-29-02, SD-TT-29-03, SD-TT-29-03-TR, SD-CB-01-01 through SD-CB-01-04, SD-CB-01-05 (and duplicate), SD-CB-01-06 through SD-CB-01-10, SD-CB-02-01, SD-CB-02-02, SD-CB-02-03 (and duplicate), SD-CB-02-04 through SD-CB-02-08, SD-CB-02-09 (and duplicate), SD-CB-02-10, SD-CB-03-01 through SD-CB-03-03, SD-CB-03-04 (and duplicate), and SD-CB-03-05 through SD-CB-03-12, SD-BW-01 (and duplicate), SD-BW-02 thorugh SD-BW-05, SD-CB-04-01 through SD-CB-04-05, SD-CB-04-06 (and duplicate), SD-CB-04-07 through SD-CB-04-10, SD-CB-06-01 through SD-CB-06-09, SD-CB-06-10 (and duplicate), SD-KF-01 through SD-KF-04, SD-KF-05 (and duplicate), SD-KF-06 through SD-KF-10, SD-LP-01 through SD-LP-05, SD-LP-06 (and duplicate), SD-LP-07 through SD-LP-11, SD-LP-12 (and duplicate), SD-LP-13 through SD-LP-15, SD-TT-30-03, SD-TT-33-01, SD-TT-33-02, SD-TT-33-02-TR, SD-TT-33-03, SD-NR-01 through SD-NR-05, SD-JY-06 (and duplicate), SD-JY-07 through SD-JY-15, SD-TT-31-01 through SD-TT-31-03 SD-CB-07-03 through SD-CB-07-06, SD-AM-01, SD-AS-01 (and duplicate) and SD-AS-02.

(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 residential soil (adjusted to an hazard quotient = 0.1 for noncarcinogens), October 1, 2002.
The most conservative PRG for all noncarcinogenic PAHs has been used for 2-methylnaphthalene, acenaphthylen benzo(g,h,i)perylene and phenanthrene.
The most conservative PRG for all BHCs has been used for delta-BHC.
PRG for endosulfan has been used for endosulfan I, endosulfan II, and endosulfan sulfate.
PRG for endrin has been used for endrin aldehyde and endrin ketone.
PRG for chromium III used for chromium.
PRG for methylmercury used for mercury.
PRG for cis-1,2-dichloroethene has been used for 1,2-dichloroethene (total)
The screening toxicity value for lead is the residential soil lead guidance level of 400 mg/Kg (USEPA, 1994a).
(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 3-2.2.1
COPCs DETECTED IN SEDIMENT AT STATION NR
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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
Station NR (a)	127-18-4	Tetrachloroethene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	79-01-6	Trichloroethene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	56-55-3	Benzo(a)anthracene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	50-32-8	Benzo(a)pyrene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	205-99-2	Benzo(b)fluoranthene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	207-08-9	Benzo(k)fluoranthene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	53-70-3	Dibenz(a,h)anthracene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	193-39-5	Indeno(1,2,3-cd)pyrene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	85-01-8	Phenanthrene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	11097-69-1	Aroclor 1254	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	11096-82-5	Aroclor 1260	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	7440-36-0	Antimony	ND	ND	mg/Kg	ND	0 / 5	1.7 - 2.2
	7440-38-2	Arsenic	106	221	mg/Kg	SD-NR-02	5 / 5	N/A
	7440-39-3	Barium	25.4	65.5	mg/Kg	SD-NR-01	5 / 5	N/A
	7440-43-9	Cadmium	0.95	2.7	mg/Kg	SD-NR-01	4 / 5	0.49
	7440-47-3	Chromium	104	258	mg/Kg	SD-NR-02	5 / 5	N/A
	7440-50-8	Copper	99.3	365	mg/Kg	SD-NR-02	5 / 5	N/A
	7439-92-1	Lead	80.8	249	mg/Kg	SD-NR-02	5 / 5	N/A
	7439-96-5	Manganese	95.4	317	mg/Kg	SD-NR-01	5 / 5	N/A
	7439-97-6	Mercury	0.77	5.9	mg/Kg	SD-NR-03	5 / 5	N/A
	7440-02-0	Nickel	7.8	16.1	mg/Kg	SD-NR-01	5 / 5	N/A
	7440-28-0	Thallium	ND	ND	mg/Kg	ND	0 / 5	1.7 - 2.2
	7440-62-2	Vanadium	16.4	32.6	mg/Kg	SD-NR-02	5 / 5	N/A
	7440-66-6	Zinc	226 J	595 J	mg/Kg	SD-NR-01	5 / 5	N/A
	7440-47-3	Chromium VI	ND	ND	mg/Kg	ND	0 / 5	N/A

(a) Data presented are from sediment samples SD-NR-01 through SD-NR-05; only COPCs selected on Table 3-2.2 appear.
(1) Minimum/maximum detected concentration.
Definitions: COPC = Chemical of Potential Concern
N/A = Not Applicable or Not Available
ND = Not Detected
J = Estimated Value

TABLE 3-2.2.2
COPCs DETECTED IN SEDIMENT AT STATION 14
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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
Station 14 (a)	127-18-4	Tetrachloroethene	ND	ND	mg/Kg	ND	0 / 3	0.012 - 0.014
	79-01-6	Trichloroethene	ND	ND	mg/Kg	ND	0 / 3	0.012 - 0.014
	56-55-3	Benzo(a)anthracene	0.7 J	1.1 J	mg/Kg	SD-14-01-FW	3 / 3	N/A
	50-32-8	Benzo(a)pyrene	0.89 J	0.89 J	mg/Kg	SD-14-03-FW	1 / 3	2.1
	205-99-2	Benzo(b)fluoranthene	0.92 J	2.1 J	mg/Kg	SD-14-03-FW	3 / 3	N/A
	207-08-9	Benzo(k)fluoranthene	1.1 J	1.1 J	mg/Kg	SD-14-01-FW	1 / 3	2.1 - 2.3
	53-70-3	Dibenz(a,h)anthracene	ND	ND	mg/Kg	ND	0 / 3	2.1 - 2.3
	193-39-5	Indeno(1,2,3-cd)pyrene	ND	ND	mg/Kg	ND	0 / 3	2.1 - 2.3
	85-01-8	Phenanthrene	0.81 J	2.6 J	mg/Kg	SD-14-01-FW	3 / 3	N/A
	11097-69-1	Aroclor 1254	ND	ND	mg/Kg	ND	0 / 3	0.21 - 0.23
	11096-82-5	Aroclor 1260	ND	ND	mg/Kg	ND	0 / 3	0.21 - 0.23
	7440-36-0	Antimony	0.85 J	0.99 J	mg/Kg	SD-14-01-FW	3 / 3	N/A
	7440-38-2	Arsenic	49.1	73.4	mg/Kg	SD-14-03-FW	3 / 3	N/A
	7440-39-3	Barium	13.4	18.4	mg/Kg	SD-14-03-FW	3 / 3	N/A
	7440-43-9	Cadmium	0.4	1	mg/Kg	SD-14-03-FW	3 / 3	N/A
	7440-47-3	Chromium	43 J	216	mg/Kg	SD-14-01-FW	3 / 3	N/A
	7440-50-8	Copper	46	64.9	mg/Kg	SD-14-02-FW	3 / 3	N/A
	7439-92-1	Lead	34.5	130 J	mg/Kg	SD-14-01-FW	3 / 3	N/A
	7439-96-5	Manganese	84.9 J	172 J	mg/Kg	SD-14-03-FW	3 / 3	N/A
	7439-97-6	Mercury	0.16 J	1.4 J	mg/Kg	SD-14-02-FW	3 / 3	N/A
	7440-02-0	Nickel	5.4	10.4	mg/Kg	SD-14-01-FW	3 / 3	N/A
	7440-28-0	Thallium	0.81	0.81	mg/Kg	SD-14-01-FW	1 / 3	0.61 - 0.71
	7440-62-2	Vanadium	8.9	13.3	mg/Kg	SD-14-01-FW	3 / 3	N/A
	7440-66-6	Zinc	170	273	mg/Kg	SD-14-03-FW	3 / 3	N/A
	7440-47-3	Chromium VI	ND	ND	mg/Kg	ND	0 / 3	N/A

(a) Data presented are from sediment samples SD-14-01-FW, SD-14-02-FW and SD-14-03-FW; only COPCs selected on Table 3-2.2 appear.
(1) Minimum/maximum detected concentration.
Definitions: COPC = Chemical of Potential Concern
N/A = Not Applicable or Not Available
ND = Not Detected
J = Estimated Value

TABLE 3-2.2.3
COPCs DETECTED IN SEDIMENT AT STATION 22/TT-22
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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
Station 22/TT-22 (a)	127-18-4	Tetrachloroethene	0.12	3.164	mg/Kg	SD-22-02-ME	4 / 4	0.205
	79-01-6	Trichloroethene	0.021 J	0.803	mg/Kg	SD-22-02-ME	3 / 4	0.026 - 0.068
	56-55-3	Benzo(a)anthracene	0.3	0.3	mg/Kg	SD-22-02-ME	1 / 3	0.067 - 0.87
	50-32-8	Benzo(a)pyrene	0.2	0.2	mg/Kg	SD-22-02-ME	1 / 2	0.067 - 0.87
	205-99-2	Benzo(b)fluoranthene	0.43 J	0.44	mg/Kg	SD-22-02-ME	2 / 4	0.067 - 0.87
	207-08-9	Benzo(k)fluoranthene	0.29	0.54 J	mg/Kg	SD-22-01-TR	2 / 3	0.067 - 0.87
	53-70-3	Dibenz(a,h)anthracene	0.044 J	0.044 J	mg/Kg	SD-22-02-ME	1 / 3	0.067 - 0.87
	193-39-5	Indeno(1,2,3-cd)pyrene	0.22	0.22	mg/Kg	SD-22-02-ME	1 / 3	0.067 - 0.87
	85-01-8	Phenanthrene	0.49	0.49	mg/Kg	SD-22-02-ME	1 / 3	0.067 - 0.87
	11097-69-1	Aroclor 1254	ND	ND	mg/Kg	ND	0 / 3	0.0031 - 0.087
	11096-82-5	Aroclor 1260	0.029	0.029	mg/Kg	SD-22-02-ME	1 / 3	0.0031 - 0.087
	7440-36-0	Antimony	0.94 J	329 J	mg/Kg	SD-TT-22-01	5 / 6	0.27 - 2.1
	7440-38-2	Arsenic	5.2 J	87.3 J	mg/Kg	SD-TT-22-01	5 / 6	0.23 - 3.7
	7440-39-3	Barium	20.3	51.4 J	mg/Kg	SD-22-03-FW	8 / 8	0.019 - 0.4
	7440-43-9	Cadmium	0.2	1.7 J	mg/Kg	SD-TT-22-02	7 / 7	0.0049 - 0.6
	7440-47-3	Chromium	7.1 J	85.3 J	mg/Kg	SD-TT-22-02	8 / 8	0.056 - 1
	7440-50-8	Copper	9.6 J	37.5 J	mg/Kg	SD-TT-22-03	8 / 8	0.085 - 0.44
	7439-92-1	Lead	383 J	41000 J	mg/Kg	SD-TT-22-01	8 / 8	0.27 - 0.6
	7439-96-5	Manganese	34.4 J	194 J	mg/Kg	SD-TT-22-03	8 / 8	0.019 - 0.24
	7439-97-6	Mercury	0.05 J	0.5	mg/Kg	SD-22-02-ME	4 / 6	0.0052 - 0.1
	7440-02-0	Nickel	3.9	18	mg/Kg	SD-TT-22-03	8 / 8	0.15 - 0.8
	7440-28-0	Thallium	ND	ND	mg/Kg	ND	0 / 6	0.039 - 1.2
	7440-62-2	Vanadium	8.5	50.1	mg/Kg	SD-TT-22-03	8 / 8	0.075 - 0.64
	7440-66-6	Zinc	23	122 J	mg/Kg	SD-TT-22-03	8 / 8	0.17 - 1.7
	7440-47-3	Chromium VI	ND	ND	mg/Kg	ND	0 / 8	N/A

(a) Data presented are from sediment samples SD-22-01-FW, SD-22-01-TR, SD-22-02-FW, SD-22-02-ME, SD-22-03-FW, SD-TT-22-01, SD-TT-22-02, and SD-TT-22-03; only COPCs selected on Table 3-2.2 appear.
(1) Minimum/maximum detected concentration.
Definitions: COPC = Chemical of Potential Concern
N/A = Not Applicable or Not Available
ND = Not Detected
J = Estimated Value

TABLE 3-2.2.4
COPCs DETECTED IN SEDIMENT AT STATION 13/TT-27
WELLS G&H SUPERFUND SITE OU3

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
Station 13/TT-27 (a)	127-18-4	Tetrachloroethene	ND	ND	mg/Kg	ND	0 / 3	0.022 - 0.108
	79-01-6	Trichloroethene	0.037 J	0.037 J	mg/Kg	SD-13-03-ME	1 / 3	0.022 - 0.035
	56-55-3	Benzo(a)anthracene	0.11 J	1.7	mg/Kg	SD-13-01-ME	6 / 6	0.067 - 0.28
	50-32-8	Benzo(a)pyrene	0.15 J	1.7	mg/Kg	SD-13-01-ME	6 / 6	0.067 - 0.28
	205-99-2	Benzo(b)fluoranthene	0.27 J	3.6 J	mg/Kg	SD-13-03-FW	6 / 6	0.067 - 0.28
	207-08-9	Benzo(k)fluoranthene	0.57 J	3.4 J	mg/Kg	SD-13-03-FW	5 / 6	0.067 - 0.28
	53-70-3	Dibenz(a,h)anthracene	0.18	0.33 J	mg/Kg	SD-13-01-FW	3 / 4	0.067 - 0.28
	193-39-5	Indeno(1,2,3-cd)pyrene	0.59 J	1	mg/Kg	SD-13-01-ME	5 / 6	0.067 - 0.28
	85-01-8	Phenanthrene	0.45 J	2.7	mg/Kg	SD-13-01-ME	5 / 6	0.067 - 0.28
	11097-69-1	Aroclor 1254	0.045	0.045	mg/Kg	SD-13-01-TR	1 / 3	0.0031 - 0.022
	11096-82-5	Aroclor 1260	0.079	0.31 J	mg/Kg	SD-13-03-FW	3 / 4	0.0031 - 0.022
	7440-36-0	Antimony	1.7 J	61 J	mg/Kg	SD-13-01-FW	5 / 8	0.27 - 0.77
	7440-38-2	Arsenic	15.9	4210 J	mg/Kg	SD-13-01-FW	9 / 9	0.22 - 1
	7440-39-3	Barium	63.8	387.5	mg/Kg	SD-TT-27-02	9 / 9	0.018 - 0.4
	7440-43-9	Cadmium	2	13.8 J	mg/Kg	SD-13-01-FW	9 / 9	0.35 - 0.6
	7440-47-3	Chromium	61.2 J	725 J	mg/Kg	SD-13-02-FW	9 / 9	0.055 - 1
	7440-50-8	Copper	97.9 J	2340 J	mg/Kg	SD-13-01-FW	9 / 9	0.082 - 0.44
	7439-92-1	Lead	135 J	1270 J	mg/Kg	SD-13-01-FW	9 / 9	0.27 - 0.6
	7439-96-5	Manganese	110.9 J	1050 J	mg/Kg	SD-13-02-FW	9 / 9	0.018 - 0.24
	7439-97-6	Mercury	0.14 J	19.5 J	mg/Kg	SD-13-01-FW	9 / 9	0.005 - 0.02
	7440-02-0	Nickel	12.5	53.4 J	mg/Kg	SD-13-03-FW	9 / 9	0.15 - 0.8
	7440-28-0	Thallium	3.2 J	3.7 J	mg/Kg	SD-13-01-FW	2 / 8	0.039 - 1.14
	7440-62-2	Vanadium	27.4	120 J	mg/Kg	SD-13-03-FW	9 / 9	0.073 - 0.64
	7440-66-6	Zinc	411.5 J	2670 J	mg/Kg	SD-13-03-FW	9 / 9	0.16 - 1.7
	7440-47-3	Chromium VI	ND	ND	mg/Kg	ND	0 / 9	N/A

(a) Data presented are from sediment samples SD-13-01-FW, SD-13-01-ME, SD-13-01-TR, SD-13-02-FW, SD-13-03-FW, SD-13-03-ME, and SD-TT-27-01, SD-TT-27-02 (and duplicate), and SD-TT-27-03; only COPCs selected on Table 3-2.2 appear.
(1) Minimum/maximum detected concentration.
Definitions: COPC = Chemical of Potential Concern
N/A = Not Applicable or Not Available
ND = Not Detected
J = Estimated Value

TABLE 3-2.2.5
COPCs DETECTED IN SEDIMENT AT STATION WH
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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
Station WH (a)	127-18-4	Tetrachloroethene	ND	ND	mg/Kg	ND	0 / 1	0.309
	79-01-6	Trichloroethene	0.053 J	0.053 J	mg/Kg	SD-12-01-ME	1 / 1	0.103
	56-55-3	Benzo(a)anthracene	0.56 J	0.56 J	mg/Kg	SD-12-01-ME	1 / 2	0.067 - 0.72
	50-32-8	Benzo(a)pyrene	1 J	1 J	mg/Kg	SD-12-01-ME	1 / 1	0.067
	205-99-2	Benzo(b)fluoranthene	1.5 J	1.5 J	mg/Kg	SD-12-01-ME	1 / 2	0.067 - 0.72
	207-08-9	Benzo(k)fluoranthene	0.66 J	0.72 J	mg/Kg	SD-12-01-ME	2 / 2	0.067 - 0.72
	53-70-3	Dibenz(a,h)anthracene	0.32 J	0.32 J	mg/Kg	SD-12-01-ME	1 / 2	0.002 - 0.72
	193-39-5	Indeno(1,2,3-cd)pyrene	0.74 J	0.74 J	mg/Kg	SD-12-01-ME	1 / 2	0.067 - 0.72
	85-01-8	Phenanthrene	0.57 J	0.57 J	mg/Kg	SD-12-01-ME	1 / 2	0.067 - 0.72
	11097-69-1	Aroclor 1254	ND	ND	mg/Kg	ND	0 / 2	0.0033 - 0.055
	11096-82-5	Aroclor 1260	0.058	0.058	mg/Kg	SD-12-01-ME	1 / 2	0.0033 - 0.055
	7440-36-0	Antimony	9.9	68 J	mg/Kg	SD-12-01-ME	12 / 12	0.27 - 0.74
	7440-38-2	Arsenic	4.7	3230	mg/Kg	SD-12-01-ME	12 / 12	0.22 - 1
	7440-39-3	Barium	53.9	132	mg/Kg	SD-WH-05	12 / 12	0.019 - 0.4799
	7440-43-9	Cadmium	0.87 J	15.1 J	mg/Kg	SD-WH-01	12 / 12	0.037 - 0.6
	7440-47-3	Chromium	17.7	2120	mg/Kg	SD-12-01-ME	12 / 12	0.056 - 1
	7440-50-8	Copper	23.8	2080	mg/Kg	SD-12-01-ME	12 / 12	0.083 - 0.4799
	7439-92-1	Lead	771	2540	mg/Kg	SD-WH-06	12 / 12	0.2476 - 0.6
	7439-96-5	Manganese	51.9	776	mg/Kg	SD-12-01-ME	12 / 12	0.019 - 0.4799
	7439-97-6	Mercury	0.25 J	27.5	mg/Kg	SD-12-01-ME	10 / 11	0.0051 - 0.3294
	7440-02-0	Nickel	11.8	44	mg/Kg	SD-WH-01	12 / 12	0.15 - 0.8
	7440-28-0	Thallium	0.2225 J	1.5	mg/Kg	SD-WH-01	9 / 12	0.044 - 1.2
	7440-62-2	Vanadium	32.3	163	mg/Kg	SD-WH-04	12 / 12	0.074 - 0.64
	7440-66-6	Zinc	181	3230	mg/Kg	SD-WH-01	7 / 12	0.17 - 634
	7440-47-3	Chromium VI	1.4 J	2.8 J	mg/Kg	SD-12-01-ME	3 / 12	N/A

(a) Data presented are from sediment samples SD-WH-01 through SD-WH-09, SD-WH-10 (and duplicate), SD-WH-07-TR (and duplicate), and SD-12-01-ME; only COPCs selected on Table 3-2.2 appear.
(1) Minimum/maximum detected concentration.
Definitions: COPC = Chemical of Potential Concern
N/A = Not Applicable or Not Available
ND = Not Detected
J = Estimated Value

TABLE 3-2.2.6
COPCs DETECTED IN SEDIMENT AT STATION NT-1
WELLS G&H SUPERFUND SITE OU3

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
Station NT-1 (a)	127-18-4	Tetrachloroethene	ND	ND	mg/Kg	ND	0 / 2	0.237 - 0.309
	79-01-6	Trichloroethene	0.042 J	0.053 J	mg/Kg	SD-12-01-ME	2 / 2	0.079 - 0.103
	56-55-3	Benzo(a)anthracene	0.13 J	0.56 J	mg/Kg	SD-12-01-ME	3 / 4	0.067 - 0.4
	50-32-8	Benzo(a)pyrene	0.16 J	1 J	mg/Kg	SD-12-01-ME	4 / 4	0.067 - 0.4
	205-99-2	Benzo(b)fluoranthene	0.29 J	1.5 J	mg/Kg	SD-12-01-ME	4 / 4	0.067 - 0.4
	207-08-9	Benzo(k)fluoranthene	0.2 J	0.91 J	mg/Kg	SD-19-01-FW	4 / 4	0.067 - 0.4
	53-70-3	Dibenz(a,h)anthracene	0.046 J	0.32 J	mg/Kg	SD-12-01-ME	2 / 3	0.002 - 0.4
	193-39-5	Indeno(1,2,3-cd)pyrene	0.14 J	0.74 J	mg/Kg	SD-12-01-ME	3 / 4	0.067 - 0.4
	85-01-8	Phenanthrene	0.16 J	0.57 J	mg/Kg	SD-12-01-ME	2 / 3	0.067 - 0.4
	11097-69-1	Aroclor 1254	ND	ND	mg/Kg	ND	0 / 3	0.0033 - 0.031
	11096-82-5	Aroclor 1260	0.011	0.058	mg/Kg	SD-12-01-ME	2 / 3	0.0033 - 0.031
	7440-36-0	Antimony	0.75 J	68 J	mg/Kg	SD-12-01-ME	21 / 30	0.27 - 6.6
	7440-38-2	Arsenic	6.6	4250	mg/Kg	SD-19-01-TR	32 / 32	0.22 - 1
	7440-39-3	Barium	14.1	205	mg/Kg	SD-19-01-TR	32 / 32	0.019 - 0.4747
	7440-43-9	Cadmium	0.46	15.2 J	mg/Kg	SD-TT-29-03	32 / 32	0.037 - 0.6
	7440-47-3	Chromium	14.3	5500 J	mg/Kg	SD-TT-29-02	32 / 32	0.056 - 1
	7440-50-8	Copper	18.8	2080	mg/Kg	SD-12-01-ME	32 / 32	0.083 - 0.4747
	7439-92-1	Lead	23.9	1240	mg/Kg	SD-12-01-ME	32 / 32	0.2177 - 0.6
	7439-96-5	Manganese	89.5	2020	mg/Kg	SD-19-01-TR	32 / 32	0.019 - 0.4747
	7439-97-6	Mercury	0.1 J	27.5	mg/Kg	SD-12-01-ME	30 / 32	0.0048 - 0.3289
	7440-02-0	Nickel	4.8	79.2	mg/Kg	SD-WG-20	31 / 32	0.15 - 0.8
	7440-28-0	Thallium	0.24 J	18.1 J	mg/Kg	SD-BW-03	21 / 31	0.044 - 1.5
	7440-62-2	Vanadium	10.3	107	mg/Kg	SD-12-01-ME	32 / 32	0.074 - 0.64
	7440-66-6	Zinc	80.1	3770	mg/Kg	SD-TT-29-03	32 / 32	0.17 - 1.7
	7440-47-3	Chromium VI	1.2 J	7.2 J	mg/Kg	SD-TT-29-02	12 / 32	N/A

(a) Data presented are from sediment samples SD-BW-01 (and duplicate), SD-BW-02 through SD-BW-05, SD-12-01-ME, SD-19-01-ME, SD-19-01-FW (and duplicate), SD-19-01-TR, SD-TT-29-01 (and duplicate), SD-TT-29-02, SD-TT-29-03, SD-TT-29-03-TR, SD-WG-01 through SD-WG-08, SD-WG-09 (and duplicate), SD-WG-10 through SD-WG-19, and SD-WG-20 (and duplicate); only COPCs selected on Table 3-2.2 appear.

(1) Minimum/maximum detected concentration.

Definitions:
COPC = Chemical of Potential Concern
N/A = Not Applicable or Not Available
ND = Not Detected
J = Estimated Value

TABLE 3-2.2.7
COPCs DETECTED IN SEDIMENT AT STATION NT-2
WELLS G&H SUPERFUND SITE OU3

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
Station NT-2 (a)	127-18-4	Tetrachloroethene	ND	ND	mg/Kg	ND	0 / 3	0.022 - 0.309
	79-01-6	Trichloroethene	0.042 J	0.053 J	mg/Kg	SD-12-01-ME	2 / 3	0.022 - 0.103
	56-55-3	Benzo(a)anthracene	0.13 J	0.56 J	mg/Kg	SD-12-01-ME	5 / 5	0.067
	50-32-8	Benzo(a)pyrene	0.16 J	1 J	mg/Kg	SD-12-01-ME	5 / 5	0.067
	205-99-2	Benzo(b)fluoranthene	0.29 J	1.5 J	mg/Kg	SD-12-01-ME	5 / 5	0.067
	207-08-9	Benzo(k)fluoranthene	0.2 J	0.8 J	mg/Kg	SD-12-01-FW	5 / 5	0.067
	53-70-3	Dibenz(a,h)anthracene	0.046 J	0.32 J	mg/Kg	SD-12-01-ME	2 / 3	0.002 - 0.73
	193-39-5	Indeno(1,2,3-cd)pyrene	0.079 J	0.74 J	mg/Kg	SD-12-01-ME	4 / 4	0.067
	85-01-8	Phenanthrene	0.16 J	0.57 J	mg/Kg	SD-12-01-ME	3 / 4	0.067 - 0.73
	11097-69-1	Aroclor 1254	ND	ND	mg/Kg	ND	0 / 3	0.0033 - 0.073
	11096-82-5	Aroclor 1260	0.011	0.058	mg/Kg	SD-12-01-ME	2 / 3	0.0033 - 0.073
	7440-36-0	Antimony	0.75 J	68 J	mg/Kg	SD-12-01-ME	13 / 22	0.27 - 6.6
	7440-38-2	Arsenic	6.6	3230	mg/Kg	SD-12-01-ME	25 / 25	0.22 - 0.4747
	7440-39-3	Barium	14.1	177	mg/Kg	SD-WG-01	25 / 25	0.019 - 0.4747
	7440-43-9	Cadmium	0.46	12.3	mg/Kg	SD-WG-10	25 / 25	0.037 - 0.1899
	7440-47-3	Chromium	14.3	2570	mg/Kg	SD-WG-10	25 / 25	0.056 - 0.4747
	7440-50-8	Copper	18.8	2080	mg/Kg	SD-12-01-ME	25 / 25	0.083 - 0.4747
	7439-92-1	Lead	16.8	1240	mg/Kg	SD-12-01-ME	25 / 25	0.2177 - 0.46
	7439-96-5	Manganese	89.5	1910	mg/Kg	SD-WG-01	25 / 25	0.019 - 0.4747
	7439-97-6	Mercury	0.1 J	27.5	mg/Kg	SD-12-01-ME	24 / 25	0.0048 - 0.3289
	7440-02-0	Nickel	4.8	79.2	mg/Kg	SD-WG-20	25 / 25	0.15 - 0.4747
	7440-28-0	Thallium	0.24 J	1.4	mg/Kg	SD-12-03-FW	14 / 24	0.044 - 1.5
	7440-62-2	Vanadium	10.3	107	mg/Kg	SD-12-01-ME	25 / 25	0.074 - 0.4747
	7440-66-6	Zinc	80.1	2640	mg/Kg	SD-12-01-ME	25 / 25	0.17 - 0.4747
	7440-47-3	Chromium VI	ND	ND	mg/Kg	ND	0 / 25	N/A

(a) Data presented are from sediment samples SD-12-01-ME, SD-12-01-FW through SD-12-03-FW, SD-19-01-ME, SD-WG-01 through SD-WG-08, SD-WG-09 (and duplicate), SD-WG-10 through SD-WG-19, and SD-WG-20 (and duplicate); only COPCs selected on Table 3-2.2 appear.
(1) Minimum/maximum detected concentration.
Definitions: COPC = Chemical of Potential Concern
N/A = Not Applicable or Not Available
ND = Not Detected
J = Estimated Value

TABLE 3-2.2.8
COPCs DETECTED IN SEDIMENT AT STATION NT-3
WELLS G&H SUPERFUND SITE OU3

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
Station NT-3 (a)	127-18-4	Tetrachloroethene	ND	ND	mg/Kg	ND	0 / 2	0.237 - 0.309
	79-01-6	Trichloroethene	0.042 J	0.053 J	mg/Kg	SD-12-01-ME	2 / 2	0.079 - 0.103
	56-55-3	Benzo(a)anthracene	0.13 J	0.56 J	mg/Kg	SD-12-01-ME	2 / 2	0.067
	50-32-8	Benzo(a)pyrene	0.16 J	1 J	mg/Kg	SD-12-01-ME	2 / 2	0.067
	205-99-2	Benzo(b)fluoranthene	0.29 J	1.5 J	mg/Kg	SD-12-01-ME	2 / 2	0.067
	207-08-9	Benzo(k)fluoranthene	0.2 J	0.72 J	mg/Kg	SD-12-01-ME	2 / 2	0.067
	53-70-3	Dibenz(a,h)anthracene	0.046 J	0.32 J	mg/Kg	SD-12-01-ME	2 / 2	0.002 - 0.067
	193-39-5	Indeno(1,2,3-cd)pyrene	0.14 J	0.74 J	mg/Kg	SD-12-01-ME	2 / 2	0.067
	85-01-8	Phenanthrene	0.16 J	0.57 J	mg/Kg	SD-12-01-ME	2 / 2	0.067
	11097-69-1	Aroclor 1254	ND	ND	mg/Kg	ND	0 / 2	0.0033
	11096-82-5	Aroclor 1260	0.011	0.058	mg/Kg	SD-12-01-ME	2 / 2	0.0033
	7440-36-0	Antimony	0.75 J	68 J	mg/Kg	SD-12-01-ME	12 / 20	0.27 - 6.6
	7440-38-2	Arsenic	6.6	3230	mg/Kg	SD-12-01-ME	22 / 22	0.22 - 0.4747
	7440-39-3	Barium	14.1	177	mg/Kg	SD-WG-01	22 / 22	0.019 - 0.4747
	7440-43-9	Cadmium	0.46	12.3	mg/Kg	SD-WG-10	22 / 22	0.037 - 0.1899
	7440-47-3	Chromium	14.3	2570	mg/Kg	SD-WG-10	22 / 22	0.056 - 0.4747
	7440-50-8	Copper	18.8	2080	mg/Kg	SD-12-01-ME	22 / 22	0.083 - 0.4747
	7439-92-1	Lead	23.9	1240	mg/Kg	SD-12-01-ME	22 / 22	0.2177 - 0.46
	7439-96-5	Manganese	89.5	1910	mg/Kg	SD-WG-01	22 / 22	0.019 - 0.4747
	7439-97-6	Mercury	0.1 J	27.5	mg/Kg	SD-12-01-ME	21 / 22	0.0048 - 0.3289
	7440-02-0	Nickel	4.8	79.2	mg/Kg	SD-WG-20	22 / 22	0.15 - 0.4747
	7440-28-0	Thallium	0.24 J	0.7 J	mg/Kg	SD-WG-01	13 / 22	0.044 - 1.5
	7440-62-2	Vanadium	10.3	107	mg/Kg	SD-12-01-ME	22 / 22	0.074 - 0.4747
	7440-66-6	Zinc	80.1	2640	mg/Kg	SD-12-01-ME	22 / 22	0.17 - 0.4747
	7440-47-3	Chromium VI	ND	ND	mg/Kg	ND	0 / 22	N/A

(a) Data presented are from sediment samples SD-12-01-ME, SD-19-01-ME, SD-WG-01 through SD-WG-08, SD-WG-09 (and duplicate), SD-WG-10 through SD-WG-19, and SD-WG-20 (and duplicate); only COPCs selected on Table 3-2.2 appear.

(1) Minimum/maximum detected concentration.

Definitions:
COPC = Chemical of Potential Concern
N/A = Not Applicable or Not Available
ND = Not Detected
J = Estimated Value

TABLE 3-2.2.9
COPCs DETECTED IN SEDIMENT AT STATION WG
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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
Station WG (a)	127-18-4	Tetrachloroethene	ND	ND	mg/Kg	ND	0 / 1	0.237
	79-01-6	Trichloroethene	0.042 J	0.042 J	mg/Kg	SD-19-01-ME	1 / 1	0.079
	56-55-3	Benzo(a)anthracene	0.13 J	0.13 J	mg/Kg	SD-19-01-ME	1 / 1	0.067
	50-32-8	Benzo(a)pyrene	0.16 J	0.16 J	mg/Kg	SD-19-01-ME	1 / 1	0.067
	205-99-2	Benzo(b)fluoranthene	0.29 J	0.29 J	mg/Kg	SD-19-01-ME	1 / 1	0.067
	207-08-9	Benzo(k)fluoranthene	0.2 J	0.2 J	mg/Kg	SD-19-01-ME	1 / 1	0.067
	53-70-3	Dibenz(a,h)anthracene	0.046 J	0.046 J	mg/Kg	SD-19-01-ME	1 / 1	0.067
	193-39-5	Indeno(1,2,3-cd)pyrene	0.14 J	0.14 J	mg/Kg	SD-19-01-ME	1 / 1	0.067
	85-01-8	Phenanthrene	0.16 J	0.16 J	mg/Kg	SD-19-01-ME	1 / 1	0.067
	11097-69-1	Aroclor 1254	ND	ND	mg/Kg	ND	0 / 1	0.0033
	11096-82-5	Aroclor 1260	0.011	0.011	mg/Kg	SD-19-01-ME	1 / 1	0.0033
	7440-36-0	Antimony	0.75 J	24.5 J	mg/Kg	SD-WG-07	11 / 19	0.3628 - 6.6
	7440-38-2	Arsenic	6.6	1450 J	mg/Kg	SD-WG-07	21 / 21	0.3628 - 0.4747
	7440-39-3	Barium	14.1	177	mg/Kg	SD-WG-01	21 / 21	0.031 - 0.4747
	7440-43-9	Cadmium	0.46	12.3	mg/Kg	SD-WG-10	21 / 21	0.063 - 0.1899
	7440-47-3	Chromium	14.3	2570	mg/Kg	SD-WG-10	21 / 21	0.094 - 0.4747
	7440-50-8	Copper	18.8	1330	mg/Kg	SD-WG-07	21 / 21	0.14 - 0.4747
	7439-92-1	Lead	23.9	810	mg/Kg	SD-WG-07	21 / 21	0.2177 - 0.46
	7439-96-5	Manganese	89.5	1910	mg/Kg	SD-WG-01	21 / 21	0.031 - 0.4747
	7439-97-6	Mercury	0.1 J	11.6 J	mg/Kg	SD-WG-07	20 / 21	0.0048 - 0.3289
	7440-02-0	Nickel	4.8	79.2	mg/Kg	SD-WG-20	21 / 21	0.25 - 0.4747
	7440-28-0	Thallium	0.24 J	0.7 J	mg/Kg	SD-WG-01	13 / 21	0.074 - 1.5
	7440-62-2	Vanadium	10.3	104.35	mg/Kg	SD-WG-09	21 / 21	0.13 - 0.4747
	7440-66-6	Zinc	80.1	2080	mg/Kg	SD-WG-10	21 / 21	0.28 - 0.4747
	7440-47-3	Chromium VI	ND	ND	mg/Kg	ND	0 / 21	N/A

(a) Data presented are from sediment samples SD-WG-01 through SD-WG-08, SD-WG-09 (and duplicate), SD-WG-10 through SD-WG-19, SD-WG-20 (and duplicate), and SD-19-01-ME; only COPCs selected on Table 3-2.2 appear.

(1) Minimum/maximum detected concentration.

Definitions: COPC = Chemical of Potential Concern
N/A = Not Applicable or Not Available
ND = Not Detected
J = Estimated Value

TABLE 3-2.2.10
COPCs DETECTED IN SEDIMENT AT STATION WW
WELLS G&H SUPERFUND SITE OU3

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
Station WW (a)	127-18-4	Tetrachloroethene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	79-01-6	Trichloroethene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	56-55-3	Benzo(a)anthracene	ND	ND	mg/Kg	ND	0 / 1	0.61
	50-32-8	Benzo(a)pyrene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	205-99-2	Benzo(b)fluoranthene	0.33 J	0.33 J	mg/Kg	SD-WW-06-TR	1 / 1	0.61
	207-08-9	Benzo(k)fluoranthene	0.61 J	0.61 J	mg/Kg	SD-WW-06-TR	1 / 1	0.61
	53-70-3	Dibenz(a,h)anthracene	ND	ND	mg/Kg	ND	0 / 1	0.61
	193-39-5	Indeno(1,2,3-cd)pyrene	ND	ND	mg/Kg	ND	0 / 1	0.61
	85-01-8	Phenanthrene	ND	ND	mg/Kg	ND	0 / 1	0.61
	11097-69-1	Aroclor 1254	ND	ND	mg/Kg	ND	0 / 1	0.05
	11096-82-5	Aroclor 1260	ND	ND	mg/Kg	ND	0 / 1	0.05
	7440-36-0	Antimony	57.3 J	57.3 J	mg/Kg	SD-WW-06-TR	1 / 2	0.74 - 2
	7440-38-2	Arsenic	4.4 J	54.6 J	mg/Kg	SD-WW-09	14 / 14	1
	7440-39-3	Barium	124	3420	mg/Kg	SD-WW-11	14 / 14	0.4
	7440-43-9	Cadmium	2.8 J	9.6 J	mg/Kg	SD-WW-02	13 / 14	0.048 - 0.6
	7440-47-3	Chromium	3670 J	24600 J	mg/Kg	SD-WW-08	14 / 14	1
	7440-50-8	Copper	178	598	mg/Kg	SD-WW-02	14 / 14	0.44
	7439-92-1	Lead	147 J	495 J	mg/Kg	SD-WW-07	14 / 14	0.6
	7439-96-5	Manganese	95.4	803	mg/Kg	SD-WW-03	14 / 14	0.24
	7439-97-6	Mercury	0.46	1.8	mg/Kg	SD-WW-01	13 / 14	0.09 - 0.24
	7440-02-0	Nickel	18.9	28.9	mg/Kg	SD-WW-08	14 / 14	0.8
	7440-28-0	Thallium	0.86 J	2.7 J	mg/Kg	SD-WW-08	10 / 14	0.65 - 3
	7440-62-2	Vanadium	39.8	103	mg/Kg	SD-WW-04	14 / 14	0.64
	7440-66-6	Zinc	888 J	1890	mg/Kg	SD-WW-08	14 / 14	1.7
	7440-47-3	Chromium VI	4.8 J	32 J	mg/Kg	SD-WW-08	14 / 14	N/A

(a) Data presented are from sediment samples SD-WW-01 (and duplicate), SD-WW-02 through SD-WW-12, SD-WW-08-02, and SD-WW-06-TR; only COPCs selected on Table 3-2.2 appear.
(1) Minimum/maximum detected concentration.
Definitions: COPC = Chemical of Potential Concern
N/A = Not Applicable or Not Available
ND = Not Detected
J = Estimated Value

TABLE 3-2.2.11
COPCs DETECTED IN SEDIMENT AT STATION JY
WELLS G&H SUPERFUND SITE OU3

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
Station JY (a)	127-18-4	Tetrachloroethene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	79-01-6	Trichloroethene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	56-55-3	Benzo(a)anthracene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	50-32-8	Benzo(a)pyrene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	205-99-2	Benzo(b)fluoranthene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	207-08-9	Benzo(k)fluoranthene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	53-70-3	Dibenz(a,h)anthracene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	193-39-5	Indeno(1,2,3-cd)pyrene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	85-01-8	Phenanthrene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	11097-69-1	Aroclor 1254	0.23 J	2.6	mg/Kg	SD-JY-07	9 / 10	0.19 - 0.44
	11096-82-5	Aroclor 1260	0.26	2.4	mg/Kg	SD-JY-07	9 / 10	0.19 - 0.44
	7440-36-0	Antimony	3.1	19.5	mg/Kg	SD-JY-08	5 / 10	1.8 - 2.1
	7440-38-2	Arsenic	13.7 J	482	mg/Kg	SD-JY-13	10 / 10	N/A
	7440-39-3	Barium	20	353 J	mg/Kg	SD-JY-07	10 / 10	N/A
	7440-43-9	Cadmium	1.4	21	mg/Kg	SD-JY-07	10 / 10	N/A
	7440-47-3	Chromium	69.6	1710 J	mg/Kg	SD-JY-08	10 / 10	N/A
	7440-50-8	Copper	122 J	741 J	mg/Kg	SD-JY-08	10 / 10	N/A
	7439-92-1	Lead	47.6	1210	mg/Kg	SD-JY-08	10 / 10	N/A
	7439-96-5	Manganese	103	555	mg/Kg	SD-JY-13	10 / 10	N/A
	7439-97-6	Mercury	0.1 J	2.3	mg/Kg	SD-JY-12	7 / 10	0.05 - 0.39
	7440-02-0	Nickel	8.7	150	mg/Kg	SD-JY-07	10 / 10	N/A
	7440-28-0	Thallium	1.7 J	6.9 J	mg/Kg	SD-JY-07	7 / 9	1.5 - 1.6
	7440-62-2	Vanadium	10.2	90.6	mg/Kg	SD-JY-07	10 / 10	N/A
	7440-66-6	Zinc	308	2850	mg/Kg	SD-JY-08	10 / 10	N/A
	7440-47-3	Chromium VI	1.5 J	2.2 J	mg/Kg	SD-JY-08	5 / 10	N/A

(a) Data presented are from sediment samples SD-JY-06 (and duplicate), and SD-JY-07 through SD-JY-15; only COPCs selected on Table 3-2.2 appear.
(1) Minimum/maximum detected concentration.
Definitions: COPC = Chemical of Potential Concern
N/A = Not Applicable or Not Available
ND = Not Detected
J = Estimated Value

TABLE 3-2.2.12
COPCs DETECTED IN SEDIMENT AT STATION WS/WSS
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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
Station WS/WSS (a)	127-18-4	Tetrachloroethene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	79-01-6	Trichloroethene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	56-55-3	Benzo(a)anthracene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	50-32-8	Benzo(a)pyrene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	205-99-2	Benzo(b)fluoranthene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	207-08-9	Benzo(k)fluoranthene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	53-70-3	Dibenz(a,h)anthracene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	193-39-5	Indeno(1,2,3-cd)pyrene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	85-01-8	Phenanthrene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	11097-69-1	Aroclor 1254	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	11096-82-5	Aroclor 1260	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	7440-36-0	Antimony	1.2 J	7.2 J	mg/Kg	SD-WS-08	10 / 10	0.3336 - 0.4716
	7440-38-2	Arsenic	17.7	339	mg/Kg	SD-WS-08	10 / 10	0.3336 - 0.4716
	7440-39-3	Barium	60.8	200	mg/Kg	SD-WS-08	10 / 10	0.3336 - 0.4716
	7440-43-9	Cadmium	1.3	16.7	mg/Kg	SD-WS-08	10 / 10	0.1334 - 0.1886
	7440-47-3	Chromium	67.7	1320	mg/Kg	SD-WS-08	10 / 10	0.3336 - 0.4716
	7440-50-8	Copper	68	686	mg/Kg	SD-WS-08	10 / 10	0.3336 - 0.4716
	7439-92-1	Lead	165	490	mg/Kg	SD-WS-08	10 / 10	0.2002 - 0.2829
	7439-96-5	Manganese	413 J	1420 J	mg/Kg	SD-WS-06	10 / 10	0.3336 - 0.4716
	7439-97-6	Mercury	0.22 J	1.8 J	mg/Kg	SD-WS-02	8 / 8	0.1275 - 0.3418
	7440-02-0	Nickel	17.4 J	46.3 J	mg/Kg	SD-WS-08	10 / 10	0.3336 - 0.4716
	7440-28-0	Thallium	0.5 J	2.2 J	mg/Kg	SD-WS-08	8 / 10	0.23 - 0.2746
	7440-62-2	Vanadium	22.2	56.1	mg/Kg	SD-WS-08	10 / 10	0.3336 - 0.4716
	7440-66-6	Zinc	299	3440	mg/Kg	SD-WS-08	10 / 10	0.3336 - 0.4716
	7440-47-3	Chromium VI	1.7 J	1.7 J	mg/Kg	SD-WS-08	1 / 10	N/A

(a) Data presented are from sediment samples SD-WS-01 (and duplicate), and SD-WS-02 through SD-WS-10; only COPCs selected on Table 3-2.2 appear.
(1) Minimum/maximum detected concentration.
Definitions: COPC = Chemical of Potential Concern
N/A = Not Applicable or Not Available
ND = Not Detected
J = Estimated Value

TABLE 3-2.2.13
COPCs DETECTED IN SEDIMENT AT STATION TT-30
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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
Station TT-30 (a)	127-18-4	Tetrachloroethene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	79-01-6	Trichloroethene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	56-55-3	Benzo(a)anthracene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	50-32-8	Benzo(a)pyrene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	205-99-2	Benzo(b)fluoranthene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	207-08-9	Benzo(k)fluoranthene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	53-70-3	Dibenz(a,h)anthracene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	193-39-5	Indeno(1,2,3-cd)pyrene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	85-01-8	Phenanthrene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	11097-69-1	Aroclor 1254	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	11096-82-5	Aroclor 1260	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	7440-36-0	Antimony	ND	ND	mg/Kg	ND	0 / 1	0.53
	7440-38-2	Arsenic	1080 J	1080 J	mg/Kg	SD-TT-30-03	1 / 1	N/A
	7440-39-3	Barium	32.7 J	32.7 J	mg/Kg	SD-TT-30-03	1 / 1	N/A
	7440-43-9	Cadmium	7.1 J	7.1 J	mg/Kg	SD-TT-30-03	1 / 1	N/A
	7440-47-3	Chromium	5310 J	5310 J	mg/Kg	SD-TT-30-03	1 / 1	N/A
	7440-50-8	Copper	3760 J	3760 J	mg/Kg	SD-TT-30-03	1 / 1	N/A
	7439-92-1	Lead	425 J	425 J	mg/Kg	SD-TT-30-03	1 / 1	N/A
	7439-96-5	Manganese	206 J	206 J	mg/Kg	SD-TT-30-03	1 / 1	N/A
	7439-97-6	Mercury	89.2 J	89.2 J	mg/Kg	SD-TT-30-03	1 / 1	N/A
	7440-02-0	Nickel	8	8	mg/Kg	SD-TT-30-03	1 / 1	N/A
	7440-28-0	Thallium	1.5	1.5	mg/Kg	SD-TT-30-03	1 / 1	N/A
	7440-62-2	Vanadium	21	21	mg/Kg	SD-TT-30-03	1 / 1	N/A
	7440-66-6	Zinc	1170	1170	mg/Kg	SD-TT-30-03	1 / 1	N/A
	7440-47-3	Chromium VI	6.9 J	6.9 J	mg/Kg	SD-TT-30-03	1 / 1	N/A

(a) Data presented are from sediment sample SD-TT-30-03; only COPCs selected on Table 3-2.2 appear.
(1) Minimum/maximum detected concentration.
Definitions: COPC = Chemical of Potential Concern
N/A = Not Applicable or Not Available
ND = Not Detected
J = Estimated Value

TABLE 3-2.2.14
COPCs DETECTED IN SEDIMENT AT STATION TT-31
WELLS G&H SUPERFUND SITE OU3

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
Station TT-31 (a)	127-18-4	Tetrachloroethene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	79-01-6	Trichloroethene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	56-55-3	Benzo(a)anthracene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	50-32-8	Benzo(a)pyrene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	205-99-2	Benzo(b)fluoranthene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	207-08-9	Benzo(k)fluoranthene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	53-70-3	Dibenz(a,h)anthracene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	193-39-5	Indeno(1,2,3-cd)pyrene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	85-01-8	Phenanthrene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	11097-69-1	Aroclor 1254	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	11096-82-5	Aroclor 1260	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	7440-36-0	Antimony	ND	ND	mg/Kg	ND	0 / 3	0.44 - 0.61
	7440-38-2	Arsenic	8.5 J	30.3 J	mg/Kg	SD-TT-31-03	3 / 3	N/A
	7440-39-3	Barium	51.6 J	159 J	mg/Kg	SD-TT-31-03	3 / 3	N/A
	7440-43-9	Cadmium	2.3 J	5.5 J	mg/Kg	SD-TT-31-03	3 / 3	N/A
	7440-47-3	Chromium	123 J	295 J	mg/Kg	SD-TT-31-03	3 / 3	N/A
	7440-50-8	Copper	56.7 J	181 J	mg/Kg	SD-TT-31-03	3 / 3	N/A
	7439-92-1	Lead	190 J	332 J	mg/Kg	SD-TT-31-01	3 / 3	N/A
	7439-96-5	Manganese	213 J	1210 J	mg/Kg	SD-TT-31-03	3 / 3	N/A
	7439-97-6	Mercury	0.94 J	1.8 J	mg/Kg	SD-TT-31-01	3 / 3	N/A
	7440-02-0	Nickel	19.7	35.6	mg/Kg	SD-TT-31-03	3 / 3	N/A
	7440-28-0	Thallium	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	7440-62-2	Vanadium	38.1 J	56.5 J	mg/Kg	SD-TT-31-03	3 / 3	N/A
	7440-66-6	Zinc	280	678	mg/Kg	SD-TT-31-03	3 / 3	N/A
	7440-47-3	Chromium VI	ND	ND	mg/Kg	ND	0 / 3	N/A

(a) Data presented are from sediment samples SD-TT-31-01 through SD-TT-31-03; only COPCs selected on Table 3-2.2 appear.
(1) Minimum/maximum detected concentration.
Definitions: COPC = Chemical of Potential Concern
N/A = Not Applicable or Not Available
ND = Not Detected
J = Estimated Value

TABLE 3-2.2.15
COPCs DETECTED IN SEDIMENT AT STATION CB-01
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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
Station CB-01 (a)	127-18-4	Tetrachloroethene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	79-01-6	Trichloroethene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	56-55-3	Benzo(a)anthracene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	50-32-8	Benzo(a)pyrene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	205-99-2	Benzo(b)fluoranthene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	207-08-9	Benzo(k)fluoranthene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	53-70-3	Dibenz(a,h)anthracene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	193-39-5	Indeno(1,2,3-cd)pyrene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	85-01-8	Phenanthrene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	11097-69-1	Aroclor 1254	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	11096-82-5	Aroclor 1260	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	7440-36-0	Antimony	0.77 J	4 J	mg/Kg	SD-CB-01-07	4 / 10	0.57 - 2
	7440-38-2	Arsenic	8.2 J	98.7 J	mg/Kg	SD-CB-01-04	10 / 10	N/A
	7440-39-3	Barium	19.35	105	mg/Kg	SD-CB-01-10	8 / 10	13.9 - 16.3
	7440-43-9	Cadmium	1.1 J	16.1 J	mg/Kg	SD-CB-01-02	10 / 10	N/A
	7440-47-3	Chromium	27.5 J	584	mg/Kg	SD-CB-01-02	10 / 10	N/A
	7440-50-8	Copper	58.1 J	1090 J	mg/Kg	SD-CB-01-04	10 / 10	N/A
	7439-92-1	Lead	75 J	648 J	mg/Kg	SD-CB-01-02	10 / 10	N/A
	7439-96-5	Manganese	51.5	1260 J	mg/Kg	SD-CB-01-10	10 / 10	N/A
	7439-97-6	Mercury	0.28 J	4.8 J	mg/Kg	SD-CB-01-04	10 / 10	N/A
	7440-02-0	Nickel	4	31.8 J	mg/Kg	SD-CB-01-02	10 / 10	N/A
	7440-28-0	Thallium	0.425 J	3.1	mg/Kg	SD-CB-01-04	5 / 10	0.58 - 1
	7440-62-2	Vanadium	21.9	114	mg/Kg	SD-CB-01-07	10 / 10	N/A
	7440-66-6	Zinc	58.4	1190	mg/Kg	SD-CB-01-02	10 / 10	N/A
	7440-47-3	Chromium VI	ND	ND	mg/Kg	ND	0 / 10	N/A

(a) Data presented are from sediment samples SD-CB-01-01 through SD-CB-01-04, SD-CB-01-05 (and duplicate), and SD-CB-01-06 through SD-CB-01-10; only COPCs selected on Table 3-2.2 appear.
(1) Minimum/maximum detected concentration.
Definitions: COPC = Chemical of Potential Concern
N/A = Not Applicable or Not Available
ND = Not Detected
J = Estimated Value

TABLE 3-2.2.16
COPCs DETECTED IN SEDIMENT AT STATION CB-02
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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
Station CB-02 (a)	127-18-4	Tetrachloroethene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	79-01-6	Trichloroethene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	56-55-3	Benzo(a)anthracene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	50-32-8	Benzo(a)pyrene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	205-99-2	Benzo(b)fluoranthene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	207-08-9	Benzo(k)fluoranthene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	53-70-3	Dibenz(a,h)anthracene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	193-39-5	Indeno(1,2,3-cd)pyrene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	85-01-8	Phenanthrene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	11097-69-1	Aroclor 1254	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	11096-82-5	Aroclor 1260	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	7440-36-0	Antimony	0.89 J	2 J	mg/Kg	SD-CB-02-03	10 / 10	N/A
	7440-38-2	Arsenic	7.55 J	56.2 J	mg/Kg	SD-CB-02-06	10 / 10	N/A
	7440-39-3	Barium	13.6	389	mg/Kg	SD-CB-02-07	10 / 10	N/A
	7440-43-9	Cadmium	0.91 J	5.8 J	mg/Kg	SD-CB-02-01	10 / 10	N/A
	7440-47-3	Chromium	17.9 J	248 J	mg/Kg	SD-CB-02-01	10 / 10	N/A
	7440-50-8	Copper	38.3 J	168	mg/Kg	SD-CB-02-01	10 / 10	N/A
	7439-92-1	Lead	67 J	342 J	mg/Kg	SD-CB-02-07	10 / 10	N/A
	7439-96-5	Manganese	34.5 J	108 J	mg/Kg	SD-CB-02-05	10 / 10	N/A
	7439-97-6	Mercury	0.12	0.58	mg/Kg	SD-CB-02-01	10 / 10	N/A
	7440-02-0	Nickel	2.1	12.8 J	mg/Kg	SD-CB-02-04	10 / 10	N/A
	7440-28-0	Thallium	ND	ND	mg/Kg	ND	0 / 10	0.54 - 1.7
	7440-62-2	Vanadium	18.5	45.6	mg/Kg	SD-CB-02-04	10 / 10	N/A
	7440-66-6	Zinc	132 J	450 J	mg/Kg	SD-CB-02-09	10 / 10	N/A
	7440-47-3	Chromium VI	ND	ND	mg/Kg	ND	0 / 10	N/A

(a) Data presented are from sediment samples SD-CB-02-01, SD-CB-02-02, SD-CB-02-03 (and duplicate), SD-CB-02-04 through SD-CB-02-08, SD-CB-02-09 only COPCs selected on Table 3-2.2 appear.
(1) Minimum/maximum detected concentration.
Definitions: COPC = Chemical of Potential Concern
N/A = Not Applicable or Not Available
ND = Not Detected
J = Estimated Value

TABLE 3-2.2.17
COPCs DETECTED IN SEDIMENT AT CB-03
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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
Station CB-03 (a)	127-18-4	Tetrachloroethene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	79-01-6	Trichloroethene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	56-55-3	Benzo(a)anthracene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	50-32-8	Benzo(a)pyrene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	205-99-2	Benzo(b)fluoranthene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	207-08-9	Benzo(k)fluoranthene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	53-70-3	Dibenz(a,h)anthracene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	193-39-5	Indeno(1,2,3-cd)pyrene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	85-01-8	Phenanthrene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	11097-69-1	Aroclor 1254	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	11096-82-5	Aroclor 1260	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	7440-36-0	Antimony	4.2 J	4.8 J	mg/Kg	SD-CB-03-08	3 / 12	0.43 - 3.5
	7440-38-2	Arsenic	9.1 J	1410	mg/Kg	SD-CB-03-11	12 / 12	N/A
	7440-39-3	Barium	20.7	95.5	mg/Kg	SD-CB-03-08	12 / 12	N/A
	7440-43-9	Cadmium	0.77 J	23.1 J	mg/Kg	SD-CB-03-06	12 / 12	N/A
	7440-47-3	Chromium	38.7 J	768	mg/Kg	SD-CB-03-06	12 / 12	N/A
	7440-50-8	Copper	29.2 J	670 J	mg/Kg	SD-CB-03-06	12 / 12	N/A
	7439-92-1	Lead	24.4 J	443 J	mg/Kg	SD-CB-03-06	12 / 12	N/A
	7439-96-5	Manganese	43.6 J	986	mg/Kg	SD-CB-03-12	12 / 12	N/A
	7439-97-6	Mercury	0.058 J	3.6	mg/Kg	SD-CB-03-12	12 / 12	N/A
	7440-02-0	Nickel	8.7	78.3 J	mg/Kg	SD-CB-03-06	12 / 12	N/A
	7440-28-0	Thallium	1.2	1.5 J	mg/Kg	SD-CB-03-01	3 / 11	0.48 - 1.7
	7440-62-2	Vanadium	13.5	97.4 J	mg/Kg	SD-CB-03-08	12 / 12	N/A
	7440-66-6	Zinc	135	5270	mg/Kg	SD-CB-03-06	12 / 12	N/A
	7440-47-3	Chromium VI	ND	ND	mg/Kg	ND	0 / 12	N/A

(a) Data presented are from sediment samples SD-CB-03-01 through SD-CB-03-03, SD-CB-03-04 (and duplicate), and SD-CB-03-05 through SD-CB-03-12; only COPCs selected on Table 3-2.2 appear.
(1) Minimum/maximum detected concentration.
Definitions: COPC = Chemical of Potential Concern
N/A = Not Applicable or Not Available
ND = Not Detected
J = Estimated Value

TABLE 3-2.2.18
COPCs DETECTED IN SEDIMENT AT CB-04
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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
Station CB-04 (a)	127-18-4	Tetrachloroethene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	79-01-6	Trichloroethene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	56-55-3	Benzo(a)anthracene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	50-32-8	Benzo(a)pyrene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	205-99-2	Benzo(b)fluoranthene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	207-08-9	Benzo(k)fluoranthene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	53-70-3	Dibenz(a,h)anthracene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	193-39-5	Indeno(1,2,3-cd)pyrene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	85-01-8	Phenanthrene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	11097-69-1	Aroclor 1254	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	11096-82-5	Aroclor 1260	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	7440-36-0	Antimony	0.67 J	7.2	mg/Kg	SD-CB-04-02	10 / 10	N/A
	7440-38-2	Arsenic	16.5	325.5	mg/Kg	SD-CB-04-06	10 / 10	N/A
	7440-39-3	Barium	20.9	109	mg/Kg	SD-CB-04-05	10 / 10	N/A
	7440-43-9	Cadmium	0.41	8.9	mg/Kg	SD-CB-04-05	10 / 10	N/A
	7440-47-3	Chromium	35.2	568	mg/Kg	SD-CB-04-03	10 / 10	N/A
	7440-50-8	Copper	47.7	358	mg/Kg	SD-CB-04-02	10 / 10	N/A
	7439-92-1	Lead	59.6	409	mg/Kg	SD-CB-04-03	10 / 10	N/A
	7439-96-5	Manganese	72.5	2410	mg/Kg	SD-CB-04-05	10 / 10	N/A
	7439-97-6	Mercury	0.18	2.2	mg/Kg	SD-CB-04-02	10 / 10	N/A
	7440-02-0	Nickel	10.1	177	mg/Kg	SD-CB-04-03	10 / 10	N/A
	7440-28-0	Thallium	3.1	5.3	mg/Kg	SD-CB-04-02	2 / 10	0.58 - 1.6
	7440-62-2	Vanadium	18.5	85.4	mg/Kg	SD-CB-04-03	10 / 10	N/A
	7440-66-6	Zinc	112	8750	mg/Kg	SD-CB-04-03	10 / 10	N/A
	7440-47-3	Chromium VI	ND	ND	mg/Kg	ND	0 / 10	N/A

(a) Data presented are from sediment samples SD-CB-04-01 through SD-CB-04-05, SD-CB-04-06 (and duplicate), and SD-CB-04-07 through SD-CB-04-10; only COPCs selected on Table 3-2.2 appear.
(1) Minimum/maximum detected concentration.
Definitions: COPC = Chemical of Potential Concern
N/A = Not Applicable or Not Available
ND = Not Detected
J = Estimated Value

TABLE 3-2.2.19
COPCs DETECTED IN SEDIMENT AT CB-06
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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
Station CB-06 (a)	127-18-4	Tetrachloroethene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	79-01-6	Trichloroethene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	56-55-3	Benzo(a)anthracene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	50-32-8	Benzo(a)pyrene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	205-99-2	Benzo(b)fluoranthene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	207-08-9	Benzo(k)fluoranthene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	53-70-3	Dibenz(a,h)anthracene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	193-39-5	Indeno(1,2,3-cd)pyrene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	85-01-8	Phenanthrene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	11097-69-1	Aroclor 1254	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	11096-82-5	Aroclor 1260	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	7440-36-0	Antimony	2.2 J	7.8	mg/Kg	SD-CB-06-03	2 / 10	1.7 - 1.9
	7440-38-2	Arsenic	22.4 J	257 J	mg/Kg	SD-CB-06-03	10 / 10	N/A
	7440-39-3	Barium	8.4	59.5	mg/Kg	SD-CB-06-07	10 / 10	N/A
	7440-43-9	Cadmium	0.88	34.6	mg/Kg	SD-CB-06-01	10 / 10	N/A
	7440-47-3	Chromium	31.8	969	mg/Kg	SD-CB-06-01	10 / 10	N/A
	7440-50-8	Copper	39.9	386	mg/Kg	SD-CB-06-01	10 / 10	N/A
	7439-92-1	Lead	19.9	328	mg/Kg	SD-CB-06-01	10 / 10	N/A
	7439-96-5	Manganese	50 J	133 J	mg/Kg	SD-CB-06-05	10 / 10	N/A
	7439-97-6	Mercury	0.05 J	0.56	mg/Kg	SD-CB-06-10	9 / 10	0.04
	7440-02-0	Nickel	6.2	49.4	mg/Kg	SD-CB-06-01	10 / 10	N/A
	7440-28-0	Thallium	1.8 J	6.1	mg/Kg	SD-CB-06-03	9 / 10	1.5
	7440-62-2	Vanadium	10.4	103	mg/Kg	SD-CB-06-01	10 / 10	N/A
	7440-66-6	Zinc	250 J	3840 J	mg/Kg	SD-CB-06-07	10 / 10	N/A
	7440-47-3	Chromium VI	1.3 J	1.3 J	mg/Kg	SD-CB-06-01	1 / 10	N/A

(a) Data presented are from sediment samples SD-CB-06-01 through SD-CB-06-09, and SD-CB-06-10 (and duplicate); only COPCs selected on Table 3-2.2 appear.
(1) Minimum/maximum detected concentration.
Definitions: COPC = Chemical of Potential Concern
N/A = Not Applicable or Not Available
ND = Not Detected
J = Estimated Value

TABLE 3-2.2.20
COPCs DETECTED IN SEDIMENT AT CB-07
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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
Station CB-07 (a)	127-18-4	Tetrachloroethene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	79-01-6	Trichloroethene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	56-55-3	Benzo(a)anthracene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	50-32-8	Benzo(a)pyrene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	205-99-2	Benzo(b)fluoranthene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	207-08-9	Benzo(k)fluoranthene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	53-70-3	Dibenz(a,h)anthracene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	193-39-5	Indeno(1,2,3-cd)pyrene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	85-01-8	Phenanthrene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	11097-69-1	Aroclor 1254	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	11096-82-5	Aroclor 1260	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	7440-36-0	Antimony	ND	ND	mg/Kg	ND	0 / 4	1.7 - 2
	7440-38-2	Arsenic	13.3 J	234 J	mg/Kg	SD-CB-07-03	4 / 4	N/A
	7440-39-3	Barium	13.4	56.8	mg/Kg	SD-CB-07-03	4 / 4	N/A
	7440-43-9	Cadmium	0.25 J	5.6	mg/Kg	SD-CB-07-03	4 / 4	N/A
	7440-47-3	Chromium	53.1 J	784	mg/Kg	SD-CB-07-03	4 / 4	N/A
	7440-50-8	Copper	56.5 J	437	mg/Kg	SD-CB-07-03	4 / 4	N/A
	7439-92-1	Lead	26.2 J	377	mg/Kg	SD-CB-07-03	4 / 4	N/A
	7439-96-5	Manganese	84.3	645 J	mg/Kg	SD-CB-07-04	4 / 4	N/A
	7439-97-6	Mercury	0.09 J	1.4	mg/Kg	SD-CB-07-03	4 / 4	N/A
	7440-02-0	Nickel	7.8	23.3	mg/Kg	SD-CB-07-03	4 / 4	N/A
	7440-28-0	Thallium	ND	ND	mg/Kg	ND	0 / 3	1.4 - 1.6
	7440-62-2	Vanadium	15.8	102	mg/Kg	SD-CB-07-03	4 / 4	N/A
	7440-66-6	Zinc	74.6	671 J	mg/Kg	SD-CB-07-03	4 / 4	N/A
	7440-47-3	Chromium VI	ND	ND	mg/Kg	ND	0 / 4	N/A

(a) Data presented are from sediment samples SD-CB-07-03 through SD-CB-07-06; only COPCs selected on Table 3-2.2 appear.
(1) Minimum/maximum detected concentration.
Definitions: COPC = Chemical of Potential Concern
N/A = Not Applicable or Not Available
ND = Not Detected
J = Estimated Value

TABLE 3-2.2.21
COPCs DETECTED IN SEDIMENT AT STATION 16/TT-33
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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
Station 16/TT-33 (a)	127-18-4	Tetrachloroethene	ND	ND	mg/Kg	ND	0 / 3	0.013 - 0.026
	79-01-6	Trichloroethene	ND	ND	mg/Kg	ND	0 / 3	0.013 - 0.026
	56-55-3	Benzo(a)anthracene	0.11 J	0.11 J	mg/Kg	SD-TT-33-02-TR	1 / 4	0.13 - 0.84
	50-32-8	Benzo(a)pyrene	0.14 J	0.14 J	mg/Kg	SD-TT-33-02-TR	1 / 4	0.13 - 0.84
	205-99-2	Benzo(b)fluoranthene	0.045 J	0.26	mg/Kg	SD-TT-33-02-TR	2 / 4	0.13 - 0.84
	207-08-9	Benzo(k)fluoranthene	0.045 J	0.099 J	mg/Kg	SD-TT-33-02-TR	2 / 4	0.13 - 0.84
	53-70-3	Dibenz(a,h)anthracene	ND	ND	mg/Kg	ND	0 / 4	0.13 - 0.84
	193-39-5	Indeno(1,2,3-cd)pyrene	0.06 J	0.06 J	mg/Kg	SD-TT-33-02-TR	1 / 4	0.13 - 0.84
	85-01-8	Phenanthrene	0.13 J	0.13 J	mg/Kg	SD-TT-33-02-TR	1 / 4	0.13 - 0.84
	11097-69-1	Aroclor 1254	ND	ND	mg/Kg	ND	0 / 4	0.011 - 0.084
	11096-82-5	Aroclor 1260	ND	ND	mg/Kg	ND	0 / 4	0.011 - 0.084
	7440-36-0	Antimony	0.56 J	9.1 J	mg/Kg	SD-TT-33-02	5 / 7	0.34 - 0.74
	7440-38-2	Arsenic	6.4 J	288 J	mg/Kg	SD-TT-33-03	7 / 7	1
	7440-39-3	Barium	10.6	78.4	mg/Kg	SD-TT-33-03	7 / 7	0.4
	7440-43-9	Cadmium	0.1	7.4 J	mg/Kg	SD-TT-33-01	7 / 7	0.6
	7440-47-3	Chromium	3.3 J	2200 J	mg/Kg	SD-TT-33-02	7 / 7	1
	7440-50-8	Copper	7.1	489 J	mg/Kg	SD-TT-33-01	7 / 7	0.44
	7439-92-1	Lead	1.9 J	285 J	mg/Kg	SD-TT-33-03	7 / 7	0.6
	7439-96-5	Manganese	84 J	776	mg/Kg	SD-TT-33-02-TR	7 / 7	0.24
	7439-97-6	Mercury	0.13	5.6 J	mg/Kg	SD-TT-33-03	6 / 7	0.046 - 0.2
	7440-02-0	Nickel	1.6	22	mg/Kg	SD-TT-33-03	7 / 7	0.8
	7440-28-0	Thallium	ND	ND	mg/Kg	ND	0 / 7	0.31 - 1.1
	7440-62-2	Vanadium	4.2	42.2	mg/Kg	SD-TT-33-03	7 / 7	0.64
	7440-66-6	Zinc	36.4 J	1090 J	mg/Kg	SD-TT-33-02	7 / 7	1.7
	7440-47-3	Chromium VI	2.9 J	2.9 J	mg/Kg	SD-TT-33-02	1 / 7	N/A

(a) Data presented are from sediment samples SD-16-01-FW, SD-16-02-FW, SD-16-03-FW, SD-TT-33-01 through SD-TT-33-03, and SD-TT-33-02-TR; only COPCs selected on Table 3-2.2 appear.
(1) Minimum/maximum detected concentration.
Definitions: COPC = Chemical of Potential Concern
N/A = Not Applicable or Not Available
ND = Not Detected
J = Estimated Value

TABLE 3-2.2.22
COPCs DETECTED IN SEDIMENT AT STATION 09
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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
Station 09 (a)	127-18-4	Tetrachloroethene	ND	ND	mg/Kg	ND	0 / 10	0.012 - 0.016
	79-01-6	Trichloroethene	ND	ND	mg/Kg	ND	0 / 10	0.012 - 0.016
	56-55-3	Benzo(a)anthracene	0.04 J	1	mg/Kg	SD-09-06-FW	8 / 10	0.41 - 0.52
	50-32-8	Benzo(a)pyrene	0.045 J	1.1	mg/Kg	SD-09-06-FW	8 / 10	0.41 - 0.52
	205-99-2	Benzo(b)fluoranthene	0.076 J	2.3	mg/Kg	SD-09-06-FW	8 / 10	0.41 - 0.52
	207-08-9	Benzo(k)fluoranthene	0.069 J	2.1	mg/Kg	SD-09-06-FW	8 / 10	0.41 - 0.52
	53-70-3	Dibenz(a,h)anthracene	0.08 J	0.08 J	mg/Kg	SD-09-06-FW	1 / 10	0.39 - 0.52
	193-39-5	Indeno(1,2,3-cd)pyrene	0.021 J	0.37 J	mg/Kg	SD-09-06-FW	4 / 10	0.39 - 0.52
	85-01-8	Phenanthrene	0.062 J	1.9	mg/Kg	SD-09-06-FW	8 / 10	0.41 - 0.52
	11097-69-1	Aroclor 1254	ND	ND	mg/Kg	ND	0 / 10	0.039 - 0.052
	11096-82-5	Aroclor 1260	ND	ND	mg/Kg	ND	0 / 10	0.039 - 0.052
	7440-36-0	Antimony	0.64	1.3	mg/Kg	SD-09-08-FW	8 / 10	0.51 - 0.57
	7440-38-2	Arsenic	18.1 J	48.5 J	mg/Kg	SD-09-02-FW	10 / 10	N/A
	7440-39-3	Barium	6	73.9	mg/Kg	SD-09-10-FW	10 / 10	N/A
	7440-43-9	Cadmium	0.19	1.2 J	mg/Kg	SD-09-10-FW	2 / 10	0.5 - 1.5
	7440-47-3	Chromium	9.3 J	91.8 J	mg/Kg	SD-09-01-FW	10 / 10	N/A
	7440-50-8	Copper	4.2 J	102 J	mg/Kg	SD-09-01-FW	10 / 10	N/A
	7439-92-1	Lead	2.4	86.8	mg/Kg	SD-09-01-FW	10 / 10	N/A
	7439-96-5	Manganese	43.2 J	2640 J	mg/Kg	SD-09-10-FW	10 / 10	N/A
	7439-97-6	Mercury	0.19 J	0.68 J	mg/Kg	SD-09-07-FW	7 / 10	0.049 - 0.06
	7440-02-0	Nickel	5.7	12.5	mg/Kg	SD-09-09-FW	10 / 10	N/A
	7440-28-0	Thallium	0.68	2.4	mg/Kg	SD-09-10-FW	6 / 10	0.52 - 1
	7440-62-2	Vanadium	6.5	19.3	mg/Kg	SD-09-08-FW	10 / 10	N/A
	7440-66-6	Zinc	57.1 J	479 J	mg/Kg	SD-09-10-FW	10 / 10	N/A
	7440-47-3	Chromium VI	ND	ND	mg/Kg	ND	0 / 10	N/A

(a) Data presented are from sediment samples SD-09-01-FW, SD-09-02-FW, SD-09-03-FW, SD-09-04-FW, SD-09-05-FW, SD-09-06-FW, SD-09-07-FW, SD-09-08-FW, SD-09-09-FW and SD-09-10-FW; only COPCs selected on Table 3-2.2 appear.
(1) Minimum/maximum detected concentration.
Definitions: COPC = Chemical of Potential Concern
N/A = Not Applicable or Not Available
ND = Not Detected
J = Estimated Value

TABLE 3-2.2.23
COPCs DETECTED IN SEDIMENT AT STATION AM
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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
Station AM (a)	127-18-4	Tetrachloroethene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	79-01-6	Trichloroethene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	56-55-3	Benzo(a)anthracene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	50-32-8	Benzo(a)pyrene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	205-99-2	Benzo(b)fluoranthene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	207-08-9	Benzo(k)fluoranthene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	53-70-3	Dibenz(a,h)anthracene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	193-39-5	Indeno(1,2,3-cd)pyrene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	85-01-8	Phenanthrene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	11097-69-1	Aroclor 1254	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	11096-82-5	Aroclor 1260	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	7440-36-0	Antimony	2 J	2 J	mg/Kg	SD-AM-01	1 / 1	0.4233
	7440-38-2	Arsenic	121	121	mg/Kg	SD-AM-01	1 / 1	0.4233
	7440-39-3	Barium	58.4	58.4	mg/Kg	SD-AM-01	1 / 1	0.4233
	7440-43-9	Cadmium	3.9	3.9	mg/Kg	SD-AM-01	1 / 1	0.1693
	7440-47-3	Chromium	322	322	mg/Kg	SD-AM-01	1 / 1	0.4233
	7440-50-8	Copper	197	197	mg/Kg	SD-AM-01	1 / 1	0.4233
	7439-92-1	Lead	150	150	mg/Kg	SD-AM-01	1 / 1	0.254
	7439-96-5	Manganese	1140 J	1140 J	mg/Kg	SD-AM-01	1 / 1	0.4233
	7439-97-6	Mercury	1.9	1.9	mg/Kg	SD-AM-01	1 / 1	0.0899
	7440-02-0	Nickel	18 J	18 J	mg/Kg	SD-AM-01	1 / 1	0.4233
	7440-28-0	Thallium	0.44 J	0.44 J	mg/Kg	SD-AM-01	1 / 1	0.2568
	7440-62-2	Vanadium	26.9	26.9	mg/Kg	SD-AM-01	1 / 1	0.4233
	7440-66-6	Zinc	941	941	mg/Kg	SD-AM-01	1 / 1	0.4233
	7440-47-3	Chromium VI	ND	ND	mg/Kg	ND	0 / 1	N/A

(a) Data presented are from sediment sample SD-AM-01; only COPCs selected on Table 3-2.2 appear.
(1) Minimum/maximum detected concentration.
Definitions: COPC = Chemical of Potential Concern
N/A = Not Applicable or Not Available
ND = Not Detected
J = Estimated Value

TABLE 3-2.2.24
COPCs DETECTED IN SEDIMENT AT STATION KF
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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
Station KF (a)	127-18-4	Tetrachloroethene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	79-01-6	Trichloroethene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	56-55-3	Benzo(a)anthracene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	50-32-8	Benzo(a)pyrene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	205-99-2	Benzo(b)fluoranthene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	207-08-9	Benzo(k)fluoranthene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	53-70-3	Dibenz(a,h)anthracene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	193-39-5	Indeno(1,2,3-cd)pyrene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	85-01-8	Phenanthrene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	11097-69-1	Aroclor 1254	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	11096-82-5	Aroclor 1260	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	7440-36-0	Antimony	ND	ND	mg/Kg	ND	0 / 10	1.7 - 1.8
	7440-38-2	Arsenic	11.7	90.4	mg/Kg	SD-KF-03	10 / 10	N/A
	7440-39-3	Barium	15.9	54.7	mg/Kg	SD-KF-03	10 / 10	N/A
	7440-43-9	Cadmium	0.81	1.1	mg/Kg	SD-KF-03	5 / 10	0.12 - 0.48
	7440-47-3	Chromium	20.8	113	mg/Kg	SD-KF-03	10 / 10	N/A
	7440-50-8	Copper	21.9	185	mg/Kg	SD-KF-03	10 / 10	N/A
	7439-92-1	Lead	31.6	188	mg/Kg	SD-KF-05	10 / 10	N/A
	7439-96-5	Manganese	83.5	503	mg/Kg	SD-KF-03	10 / 10	N/A
	7439-97-6	Mercury	0.1 J	1.6 J	mg/Kg	SD-KF-03	10 / 10	N/A
	7440-02-0	Nickel	5.8	12.6	mg/Kg	SD-KF-10	7 / 10	2.5 - 5.3
	7440-28-0	Thallium	ND	ND	mg/Kg	ND	0 / 10	1.7 - 1.8
	7440-62-2	Vanadium	9.1	29.6	mg/Kg	SD-KF-03	10 / 10	N/A
	7440-66-6	Zinc	115 J	461	mg/Kg	SD-KF-03	10 / 10	N/A
	7440-47-3	Chromium VI	ND	ND	mg/Kg	ND	0 / 10	N/A

(a) Data presented are from sediment sample SD-KF-01 through SD-KF-04, SD-KF-05 (and duplicate), and SD-KF-06 through SD-KF-10; only COPCs selected on Table 3-2.2 appear.
(1) Minimum/maximum detected concentration.
Definitions: COPC = Chemical of Potential Concern
N/A = Not Applicable or Not Available
ND = Not Detected
J = Estimated Value

TABLE 3-2.2.25
COPCs DETECTED IN SEDIMENT AT STATION 08
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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
Station 08 (a)	127-18-4	Tetrachloroethene	ND	ND	mg/Kg	ND	0 / 3	0.012 - 0.015
	79-01-6	Trichloroethene	ND	ND	mg/Kg	ND	0 / 3	0.012 - 0.015
	56-55-3	Benzo(a)anthracene	0.29 J	0.68	mg/Kg	SD-08-02-FW	3 / 3	N/A
	50-32-8	Benzo(a)pyrene	0.45	0.94	mg/Kg	SD-08-02-FW	3 / 3	N/A
	205-99-2	Benzo(b)fluoranthene	0.95	1.9	mg/Kg	SD-08-02-FW	3 / 3	N/A
	207-08-9	Benzo(k)fluoranthene	0.96	2	mg/Kg	SD-08-02-FW	3 / 3	N/A
	53-70-3	Dibenz(a,h)anthracene	0.06 J	0.16 J	mg/Kg	SD-08-02-FW	3 / 3	N/A
	193-39-5	Indeno(1,2,3-cd)pyrene	0.24 J	0.68	mg/Kg	SD-08-02-FW	3 / 3	N/A
	85-01-8	Phenanthrene	0.28 J	0.61	mg/Kg	SD-08-02-FW	3 / 3	N/A
	11097-69-1	Aroclor 1254	ND	ND	mg/Kg	ND	0 / 2	0.041 - 0.049
	11096-82-5	Aroclor 1260	ND	ND	mg/Kg	ND	0 / 2	0.041 - 0.049
	7440-36-0	Antimony	0.74	1.6	mg/Kg	SD-08-02-FW	3 / 3	N/A
	7440-38-2	Arsenic	10.8 J	28.9 J	mg/Kg	SD-08-02-FW	3 / 3	N/A
	7440-39-3	Barium	15.7	21.2	mg/Kg	SD-08-02-FW	3 / 3	N/A
	7440-43-9	Cadmium	ND	ND	mg/Kg	ND	0 / 3	0.6 - 1.8
	7440-47-3	Chromium	17.8 J	119 J	mg/Kg	SD-08-02-FW	3 / 3	N/A
	7440-50-8	Copper	28.3 J	133 J	mg/Kg	SD-08-02-FW	3 / 3	N/A
	7439-92-1	Lead	20	70.7	mg/Kg	SD-08-02-FW	3 / 3	N/A
	7439-96-5	Manganese	99.5 J	228 J	mg/Kg	SD-08-02-FW	3 / 3	N/A
	7439-97-6	Mercury	0.11 J	1 J	mg/Kg	SD-08-02-FW	3 / 3	N/A
	7440-02-0	Nickel	7	20.2	mg/Kg	SD-08-02-FW	3 / 3	N/A
	7440-28-0	Thallium	1.1	1.7	mg/Kg	SD-08-02-FW	3 / 3	N/A
	7440-62-2	Vanadium	11.6	17.5	mg/Kg	SD-08-02-FW	3 / 3	N/A
	7440-66-6	Zinc	171 J	539 J	mg/Kg	SD-08-02-FW	3 / 3	N/A
	7440-47-3	Chromium VI	ND	ND	mg/Kg	ND	0 / 3	N/A

(a) Data presented are from sediment samples SD-08-01-FW, SD-08-02-FW and SD-08-03-FW; only COPCs selected on Table 3-2.2 appear.
(1) Minimum/maximum detected concentration.
Definitions: COPC = Chemical of Potential Concern
N/A = Not Applicable or Not Available
ND = Not Detected
J = Estimated Value

TABLE 3-2.2.26
COPCs DETECTED IN SEDIMENT AT STATION 07/DP
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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
Station 07/DP (a)	127-18-4	Tetrachloroethene	ND	ND	mg/Kg	ND	0 / 9	0.013 - 0.101
	79-01-6	Trichloroethene	0.024 J	0.035 J	mg/Kg	SD-07-10-ME	2 / 9	0.013 - 0.034
	56-55-3	Benzo(a)anthracene	0.415 J	9.6	mg/Kg	SD-07-10-ME	10 / 10	0.067
	50-32-8	Benzo(a)pyrene	0.49 J	10	mg/Kg	SD-07-10-ME	10 / 10	0.067
	205-99-2	Benzo(b)fluoranthene	0.555	16 J	mg/Kg	SD-07-10-ME	10 / 10	0.067
	207-08-9	Benzo(k)fluoranthene	0.48 J	14 J	mg/Kg	SD-07-05-FW	10 / 10	0.067
	53-70-3	Dibenz(a,h)anthracene	0.082 J	2	mg/Kg	SD-07-10-ME	8 / 10	0.067 - 0.89
	193-39-5	Indeno(1,2,3-cd)pyrene	0.22 J	6.9	mg/Kg	SD-07-10-ME	9 / 10	0.067 - 0.89
	85-01-8	Phenanthrene	0.4 J	12	mg/Kg	SD-07-10-ME	10 / 10	0.067
	11097-69-1	Aroclor 1254	ND	ND	mg/Kg	ND	0 / 9	0.0032 - 0.21
	11096-82-5	Aroclor 1260	0.05	0.074	mg/Kg	SD-07-05-ME	2 / 9	0.0032 - 0.21
	7440-36-0	Antimony	0.72	3.1	mg/Kg	SD-07-10-FW	10 / 10	0.26 - 0.27
	7440-38-2	Arsenic	10.3 J	129 J	mg/Kg	SD-07-10-FW	10 / 10	0.22
	7440-39-3	Barium	21.35	118	mg/Kg	SD-07-05-ME	10 / 10	0.018 - 0.019
	7440-43-9	Cadmium	0.645	10.3	mg/Kg	SD-07-10-FW	5 / 10	0.037 - 5.7
	7440-47-3	Chromium	31.9 J	442 J	mg/Kg	SD-07-10-FW	10 / 10	0.055 - 0.056
	7440-50-8	Copper	23.4 J	380 J	mg/Kg	SD-07-10-FW	10 / 10	0.082 - 0.084
	7439-92-1	Lead	41.2	480	mg/Kg	SD-07-04-FW	10 / 10	0.26 - 0.27
	7439-96-5	Manganese	108.55	595 J	mg/Kg	SD-07-04-FW	10 / 10	0.018 - 0.019
	7439-97-6	Mercury	0.28 J	5.7 J	mg/Kg	SD-07-10-FW	9 / 10	0.005 - 0.11
	7440-02-0	Nickel	8.2	37.5	mg/Kg	SD-07-05-ME	10 / 10	0.15
	7440-28-0	Thallium	0.815	3.8	mg/Kg	SD-07-10-FW	8 / 10	0.043 - 0.76
	7440-62-2	Vanadium	17.2	79.2	mg/Kg	SD-07-10-FW	10 / 10	0.073 - 0.075
	7440-66-6	Zinc	106 J	2490 J	mg/Kg	SD-07-10-FW	10 / 10	0.16 - 0.17
	7440-47-3	Chromium VI	ND	ND	mg/Kg	ND	0 / 10	N/A

(a) Data presented are from sediment samples SD-07-01-FW (and duplicate), SD-07-03-FW, SD-07-04-FW, SD-07-05-FW, SD-07-05-ME, SD-07-07-FW, SD-07-08-FW, SD-07-09-FW, SD-07-10-FW and SD-07-10-ME; only COPCs selected on Table 3-2.2 appear.

(1) Minimum/maximum detected concentration.

Definitions:
COPC = Chemical of Potential Concern
N/A = Not Applicable or Not Available
ND = Not Detected
J = Estimated Value

TABLE 3-2.2.27
COPCs DETECTED IN SEDIMENT AT STATION LP
WELLS G&H SUPERFUND SITE OU3

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
Station LP (a)	127-18-4	Tetrachloroethene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	79-01-6	Trichloroethene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	56-55-3	Benzo(a)anthracene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	50-32-8	Benzo(a)pyrene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	205-99-2	Benzo(b)fluoranthene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	207-08-9	Benzo(k)fluoranthene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	53-70-3	Dibenz(a,h)anthracene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	193-39-5	Indeno(1,2,3-cd)pyrene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	85-01-8	Phenanthrene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	11097-69-1	Aroclor 1254	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	11096-82-5	Aroclor 1260	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	7440-36-0	Antimony	5.1 J	5.1 J	mg/Kg	SD-LP-04	1 / 12	1.7 - 2.6
	7440-38-2	Arsenic	5.4	485 J	mg/Kg	SD-LP-04	12 / 12	N/A
	7440-39-3	Barium	11.2	68.9	mg/Kg	SD-LP-11	12 / 12	N/A
	7440-43-9	Cadmium	0.14 J	5.6 J	mg/Kg	SD-LP-04	10 / 12	0.12
	7440-47-3	Chromium	8.2	134	mg/Kg	SD-LP-11	12 / 12	N/A
	7440-50-8	Copper	6.6	1560 J	mg/Kg	SD-LP-04	12 / 12	N/A
	7439-92-1	Lead	6.4	400 J	mg/Kg	SD-LP-04	12 / 12	N/A
	7439-96-5	Manganese	47.5	333	mg/Kg	SD-LP-03	12 / 12	N/A
	7439-97-6	Mercury	0.16 J	1.4	mg/Kg	SD-LP-04	10 / 12	0.09 - 0.1
	7440-02-0	Nickel	0.59 J	30.6	mg/Kg	SD-LP-04	12 / 12	N/A
	7440-28-0	Thallium	1.325 J	2.9 J	mg/Kg	SD-LP-04	6 / 12	1.7 - 2.2
	7440-62-2	Vanadium	6.5	39.8	mg/Kg	SD-LP-11	12 / 12	N/A
	7440-66-6	Zinc	15.2	2800	mg/Kg	SD-LP-03	12 / 12	N/A
	7440-47-3	Chromium VI	ND	ND	mg/Kg	ND	0 / 12	N/A

(a) Data presented are from sediment samples SD-LP-01 through SD-LP-05, SD-LP-06 (and duplicate), SD-LP-08, SD-LP-11, SD-LP-12 (and duplicate), and SD-LP-13 through SD-LP-15; only COPCs selected on Table 3-2.2 appear.
(1) Minimum/maximum detected concentration.
Definitions: COPC = Chemical of Potential Concern
N/A = Not Applicable or Not Available
ND = Not Detected
J = Estimated Value

TABLE 3-2.2.28
COPCs DETECTED IN SEDIMENT AT STATION LP
WELLS G&H SUPERFUND SITE OU3

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
Station LP (a)	127-18-4	Tetrachloroethene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	79-01-6	Trichloroethene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	56-55-3	Benzo(a)anthracene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	50-32-8	Benzo(a)pyrene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	205-99-2	Benzo(b)fluoranthene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	207-08-9	Benzo(k)fluoranthene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	53-70-3	Dibenz(a,h)anthracene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	193-39-5	Indeno(1,2,3-cd)pyrene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	85-01-8	Phenanthrene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	11097-69-1	Aroclor 1254	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	11096-82-5	Aroclor 1260	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	7440-36-0	Antimony	5.1 J	5.1 J	mg/Kg	SD-LP-04	1 / 15	1.7 - 2.6
	7440-38-2	Arsenic	5.4	485 J	mg/Kg	SD-LP-04	15 / 15	N/A
	7440-39-3	Barium	11.2	68.9	mg/Kg	SD-LP-11	15 / 15	N/A
	7440-43-9	Cadmium	0.14 J	5.6 J	mg/Kg	SD-LP-04	13 / 15	0.12
	7440-47-3	Chromium	8.2	134	mg/Kg	SD-LP-11	15 / 15	N/A
	7440-50-8	Copper	6.6	1560 J	mg/Kg	SD-LP-04	15 / 15	N/A
	7439-92-1	Lead	6.4	400 J	mg/Kg	SD-LP-04	15 / 15	N/A
	7439-96-5	Manganese	47.5	333	mg/Kg	SD-LP-03	15 / 15	N/A
	7439-97-6	Mercury	0.16 J	1.4	mg/Kg	SD-LP-04	13 / 15	0.09 - 0.1
	7440-02-0	Nickel	0.59 J	30.6	mg/Kg	SD-LP-04	15 / 15	N/A
	7440-28-0	Thallium	1.325 J	2.9 J	mg/Kg	SD-LP-04	9 / 15	1.7 - 2.2
	7440-62-2	Vanadium	6.5	39.8	mg/Kg	SD-LP-11	15 / 15	N/A
	7440-66-6	Zinc	15.2	2800	mg/Kg	SD-LP-03	15 / 15	N/A
	7440-47-3	Chromium VI	ND	ND	mg/Kg	ND	0 / 15	N/A

(a) Data presented are from sediment samples SD-LP-01 through SD-LP-05, SD-LP-06 (and duplicate), SD-LP-07 through SD-LP-11, SD-LP-12 (and duplicate), and SD-LP-13 through SD-LP-15; only COPCs selected on Table 3-2.2 appear.
(1) Minimum/maximum detected concentration.
Definitions: COPC = Chemical of Potential Concern
N/A = Not Applicable or Not Available
ND = Not Detected
J = Estimated Value

TABLE 3-2.2.29
COPCs DETECTED IN SEDIMENT AT STATION AS
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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
Station AS (a)	127-18-4	Tetrachloroethene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	79-01-6	Trichloroethene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	56-55-3	Benzo(a)anthracene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	50-32-8	Benzo(a)pyrene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	205-99-2	Benzo(b)fluoranthene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	207-08-9	Benzo(k)fluoranthene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	53-70-3	Dibenz(a,h)anthracene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	193-39-5	Indeno(1,2,3-cd)pyrene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	85-01-8	Phenanthrene	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	11097-69-1	Aroclor 1254	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	11096-82-5	Aroclor 1260	N/A	N/A	mg/Kg	N/A	0 / 0	N/A
	7440-36-0	Antimony	2.15 J	2.9 J	mg/Kg	SD-AS-02	2 / 2	0.3983 - 0.446
	7440-38-2	Arsenic	111	121	mg/Kg	SD-AS-02	2 / 2	0.3983 - 0.446
	7440-39-3	Barium	95.85	109	mg/Kg	SD-AS-02	2 / 2	0.3983 - 0.446
	7440-43-9	Cadmium	10.6	13.3	mg/Kg	SD-AS-02	2 / 2	0.1593 - 0.1784
	7440-47-3	Chromium	576.5	918	mg/Kg	SD-AS-02	2 / 2	0.3983 - 0.446
	7440-50-8	Copper	444.5	576	mg/Kg	SD-AS-02	2 / 2	0.3983 - 0.446
	7439-92-1	Lead	484	661	mg/Kg	SD-AS-02	2 / 2	0.239 - 0.2676
	7439-96-5	Manganese	378.5 J	384 J	mg/Kg	SD-AS-02	2 / 2	0.3983 - 0.446
	7439-97-6	Mercury	3.05	3.1	mg/Kg	SD-AS-02	2 / 2	0.1225 - 0.1251
	7440-02-0	Nickel	35 J	39.4 J	mg/Kg	SD-AS-02	2 / 2	0.3983 - 0.446
	7440-28-0	Thallium	0.95 J	1.2 J	mg/Kg	SD-AS-02	2 / 2	0.2278 - 0.2718
	7440-62-2	Vanadium	59	72.6	mg/Kg	SD-AS-02	2 / 2	0.3983 - 0.446
	7440-66-6	Zinc	2085	2290	mg/Kg	SD-AS-02	2 / 2	0.3983 - 0.446
	7440-47-3	Chromium VI	ND	ND	mg/Kg	ND	0 / 2	N/A

(a) Data presented are from sediment samples SD-AS-01 (and duplicate) and SD-AS-02; only COPCs selected on Table 3-2.2 appear.
(1) Minimum/maximum detected concentration.
Definitions: COPC = Chemical of Potential Concern
N/A = Not Applicable or Not Available
ND = Not Detected
J = Estimated Value

TABLE 3-2.2.30
COPCs DETECTED IN SEDIMENT AT STATION 05
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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
Station 05 (a)	127-18-4	Tetrachloroethene	ND	ND	mg/Kg	ND	0 / 3	0.012 - 0.02
	79-01-6	Trichloroethene	ND	ND	mg/Kg	ND	0 / 3	0.012 - 0.02
	56-55-3	Benzo(a)anthracene	0.13 J	2.3 J	mg/Kg	SD-05-03-FW	3 / 3	N/A
	50-32-8	Benzo(a)pyrene	0.13 J	2.5 J	mg/Kg	SD-05-03-FW	3 / 3	N/A
	205-99-2	Benzo(b)fluoranthene	0.13 J	3 J	mg/Kg	SD-05-03-FW	2 / 3	0.39
	207-08-9	Benzo(k)fluoranthene	0.12 J	1.9 J	mg/Kg	SD-05-03-FW	2 / 3	0.39
	53-70-3	Dibenz(a,h)anthracene	ND	ND	mg/Kg	ND	0 / 3	0.39 - 0.65
	193-39-5	Indeno(1,2,3-cd)pyrene	0.064 J	1.2 J	mg/Kg	SD-05-03-FW	3 / 3	N/A
	85-01-8	Phenanthrene	0.11 J	2.2 J	mg/Kg	SD-05-03-FW	3 / 3	N/A
	11097-69-1	Aroclor 1254	ND	ND	mg/Kg	ND	0 / 1	0.21
	11096-82-5	Aroclor 1260	ND	ND	mg/Kg	ND	0 / 1	0.21
	7440-36-0	Antimony	0.44 J	1.8 J	mg/Kg	SD-05-03-FW	3 / 3	N/A
	7440-38-2	Arsenic	5.1	24.8	mg/Kg	SD-05-03-FW	3 / 3	N/A
	7440-39-3	Barium	21.3	43.2	mg/Kg	SD-05-02-FW	3 / 3	N/A
	7440-43-9	Cadmium	1.6	1.6	mg/Kg	SD-05-03-FW	1 / 3	0.03 - 0.043
	7440-47-3	Chromium	15	149	mg/Kg	SD-05-03-FW	3 / 3	N/A
	7440-50-8	Copper	10.9	80.3	mg/Kg	SD-05-03-FW	3 / 3	N/A
	7439-92-1	Lead	39.3	145	mg/Kg	SD-05-03-FW	3 / 3	N/A
	7439-96-5	Manganese	125	952	mg/Kg	SD-05-02-FW	3 / 3	N/A
	7439-97-6	Mercury	1.2 J	1.2 J	mg/Kg	SD-05-03-FW	1 / 3	0.04 - 0.05
	7440-02-0	Nickel	6.8	10.7	mg/Kg	SD-05-01-FW	3 / 3	N/A
	7440-28-0	Thallium	0.85	0.97	mg/Kg	SD-05-02-FW	2 / 3	1.3
	7440-62-2	Vanadium	12.5	19.4	mg/Kg	SD-05-02-FW	3 / 3	N/A
	7440-66-6	Zinc	111	571	mg/Kg	SD-05-03-FW	3 / 3	N/A
	7440-47-3	Chromium VI	ND	ND	mg/Kg	ND	0 / 3	N/A

(a) Data presented are from sediment samples SD-05-01-FW, SD-05-02-FW, and SD-05-03-FW; only COPCs selected on Table 3-2.2 appear.
(1) Minimum/maximum detected concentration.
Definitions: COPC = Chemical of Potential Concern
N/A = Not Applicable or Not Available
ND = Not Detected
J = Estimated Value

TABLE 3-2.2.31
COPCs DETECTED IN SEDIMENT AT STATION 03
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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
Station 03 (a)	127-18-4	Tetrachloroethene	ND	ND	mg/Kg	ND	0 / 3	0.012 - 0.132
	79-01-6	Trichloroethene	ND	ND	mg/Kg	ND	0 / 3	0.012 - 0.044
	56-55-3	Benzo(a)anthracene	1.3	1.3	mg/Kg	SD-03-02-ME	1 / 3	0.067 - 0.4
	50-32-8	Benzo(a)pyrene	1	1	mg/Kg	SD-03-02-ME	1 / 3	0.067 - 0.4
	205-99-2	Benzo(b)fluoranthene	1.4	1.4	mg/Kg	SD-03-02-ME	1 / 3	0.067 - 0.4
	207-08-9	Benzo(k)fluoranthene	0.64	0.64	mg/Kg	SD-03-02-ME	1 / 3	0.067 - 0.4
	53-70-3	Dibenz(a,h)anthracene	0.11	0.11	mg/Kg	SD-03-02-ME	1 / 3	0.067 - 0.4
	193-39-5	Indeno(1,2,3-cd)pyrene	0.62	0.62	mg/Kg	SD-03-02-ME	1 / 3	0.067 - 0.4
	85-01-8	Phenanthrene	1	1	mg/Kg	SD-03-02-ME	1 / 3	0.067 - 0.4
	11097-69-1	Aroclor 1254	ND	ND	mg/Kg	ND	0 / 3	0.0032 - 0.04
	11096-82-5	Aroclor 1260	0.11	0.11	mg/Kg	SD-03-02-ME	1 / 3	0.0032 - 0.04
	7440-36-0	Antimony	0.41 J	1.7 J	mg/Kg	SD-03-02-ME	2 / 3	0.27 - 0.55
	7440-38-2	Arsenic	5.4	86.5	mg/Kg	SD-03-02-ME	3 / 3	0.22
	7440-39-3	Barium	9	84.6	mg/Kg	SD-03-02-ME	3 / 3	0.018
	7440-43-9	Cadmium	5.2	5.2	mg/Kg	SD-03-02-ME	1 / 3	0.028 - 0.35
	7440-47-3	Chromium	9.6	200 J	mg/Kg	SD-03-02-ME	3 / 3	0.055
	7440-50-8	Copper	6.4	171	mg/Kg	SD-03-02-ME	3 / 3	0.083
	7439-92-1	Lead	10.1	345 J	mg/Kg	SD-03-02-ME	3 / 3	0.27
	7439-96-5	Manganese	69.1	503	mg/Kg	SD-03-02-ME	3 / 3	0.018
	7439-97-6	Mercury	0.06 J	0.71	mg/Kg	SD-03-02-ME	2 / 3	0.0051 - 0.04
	7440-02-0	Nickel	4.9	26.7 J	mg/Kg	SD-03-02-ME	3 / 3	0.15
	7440-28-0	Thallium	ND	ND	mg/Kg	ND	0 / 3	0.039 - 0.8
	7440-62-2	Vanadium	7.9	49.2	mg/Kg	SD-03-02-ME	3 / 3	0.074
	7440-66-6	Zinc	60.4	1420 J	mg/Kg	SD-03-02-ME	3 / 3	0.17
	7440-47-3	Chromium VI	ND	ND	mg/Kg	ND	0 / 3	N/A

(a) Data presented are from sediment samples SD-03-01-FW, SD-03-02-ME and SD-03-03-FW; only COPCs selected on Table 3-2.2 appear.
(1) Minimum/maximum detected concentration.
Definitions: COPC = Chemical of Potential Concern
N/A = Not Applicable or Not Available
ND = Not Detected
J = Estimated Value

TABLE 3-2.2.32
COPCs DETECTED IN SEDIMENT AT STATION 01
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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
Station 01 (a)	127-18-4	Tetrachloroethene	ND	ND	mg/Kg	ND	0 / 4	0.011 - 0.012
	79-01-6	Trichloroethene	ND	ND	mg/Kg	ND	0 / 4	0.011 - 0.012
	56-55-3	Benzo(a)anthracene	0.12 J	0.25 J	mg/Kg	SD-01-03-FW	2 / 4	0.39 - 0.4
	50-32-8	Benzo(a)pyrene	0.093 J	0.21 J	mg/Kg	SD-01-03-FW	2 / 4	0.39 - 0.4
	205-99-2	Benzo(b)fluoranthene	0.098 J	0.17 J	mg/Kg	SD-01-03-FW	2 / 4	0.39 - 0.4
	207-08-9	Benzo(k)fluoranthene	0.1 J	0.21 J	mg/Kg	SD-01-03-FW	2 / 4	0.39 - 0.4
	53-70-3	Dibenz(a,h)anthracene	ND	ND	mg/Kg	ND	0 / 4	0.37 - 0.4
	193-39-5	Indeno(1,2,3-cd)pyrene	0.12 J	0.12 J	mg/Kg	SD-01-03-FW	1 / 4	0.37 - 0.4
	85-01-8	Phenanthrene	0.29 J	0.5 J	mg/Kg	SD-01-03-FW	2 / 4	0.39 - 0.4
	11097-69-1	Aroclor 1254	ND	ND	mg/Kg	ND	0 / 4	0.038 - 0.19
	11096-82-5	Aroclor 1260	ND	ND	mg/Kg	ND	0 / 4	0.038 - 0.19
	7440-36-0	Antimony	0.55 J	0.94 J	mg/Kg	SD-01-03-FW	2 / 4	0.44 - 0.49
	7440-38-2	Arsenic	3.1	6.2	mg/Kg	SD-01-05-FW	4 / 4	N/A
	7440-39-3	Barium	9.5	12.6	mg/Kg	SD-01-05-FW	4 / 4	N/A
	7440-43-9	Cadmium	0.089	0.18	mg/Kg	SD-01-03-FW	2 / 4	0.041 - 0.046
	7440-47-3	Chromium	7	9.8	mg/Kg	SD-01-05-FW	4 / 4	N/A
	7440-50-8	Copper	6.7	16.6	mg/Kg	SD-01-08-FW	4 / 4	N/A
	7439-92-1	Lead	9 J	39.9 J	mg/Kg	SD-01-05-FW	4 / 4	N/A
	7439-96-5	Manganese	60.4	103	mg/Kg	SD-01-05-FW	4 / 4	N/A
	7439-97-6	Mercury	ND	ND	mg/Kg	ND	0 / 4	0.015 - 0.023
	7440-02-0	Nickel	4.9	7.2	mg/Kg	SD-01-03-FW	4 / 4	N/A
	7440-28-0	Thallium	0.54	0.54	mg/Kg	SD-01-03-FW	1 / 4	0.64 - 0.8
	7440-62-2	Vanadium	7.3	11.6	mg/Kg	SD-01-03-FW	4 / 4	N/A
	7440-66-6	Zinc	46.1	153	mg/Kg	SD-01-08-FW	4 / 4	N/A
	7440-47-3	Chromium VI	ND	ND	mg/Kg	ND	0 / 4	N/A

(a) Data presented are from sediment samples SD-01-01-FW, SD-01-03-FW, SD-01-05-FW and SD-01-08-FW; only COPCs selected on Table 3-2.2 appear.
(1) Minimum/maximum detected concentration.
Definitions: COPC = Chemical of Potential Concern
N/A = Not Applicable or Not Available
ND = Not Detected
J = Estimated Value

TABLE 3-2.3
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
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)
Combined Data (a)	7429-90-5	Aluminum	2890	10900	mg/Kg	SO-DA-03	61 / 61	7.4	10900	N/A	N/A	N/A	N/A	N	NTX
	7440-36-0	Antimony	0.67 J	1.6	mg/Kg	SO-CB-05-05	7 / 61	0.65 - 4.9	1.6	N/A	3.1 N	N/A	N/A	N	BSL
	7440-38-2	Arsenic	6.05 J	272 J	mg/Kg	SO-DA-03	61 / 61	5.6	272	N/A	0.39 C	N/A	N/A	Y	ASL
	7440-39-3	Barium	11	152.5	mg/Kg	SO-DP-26	61 / 61	0.1	152.5	N/A	540 N	N/A	N/A	N	BSL
	7440-41-7	Beryllium	0.18 J	0.56	mg/Kg	SO-NR-20	28 / 44	0.05 - 0.24	0.56	N/A	15 N	N/A	N/A	N	BSL
	7440-43-9	Cadmium	0.22 J	4.6 J	mg/Kg	SO-DA-03	25 / 61	0.1 - 0.76	4.6	N/A	3.7 N	N/A	N/A	Y	ASL
	7440-70-2	Calcium	556	7240	mg/Kg	SO-DP-26	61 / 61	9.7	7240	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	9.3	550 J	mg/Kg	SO-DA-03	61 / 61	1.5	550	N/A	30 C	N/A	N/A	Y	ASL
	7440-48-4	Cobalt	2.3	25.7	mg/Kg	SO-DA-03	61 / 61	1.7	25.7	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	18.3	320 J	mg/Kg	SO-DA-03	61 / 61	0.6	320	N/A	310 N	N/A	N/A	Y	ASL
	7439-89-6	Iron	6600	134000 J	mg/Kg	SO-DP-16	61 / 61	29.5	134000	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	25	274 J	mg/Kg	SO-DA-03	61 / 61	2.6	274	N/A	400 N	N/A	N/A	N	BSL
	7439-95-4	Magnesium	1070	5020	mg/Kg	SO-DP-03	61 / 61	14.6	5020	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	58.1	2850	mg/Kg	SO-DA-03	61 / 61	0.2	2850	N/A	180 N	N/A	N/A	Y	ASL
	7439-97-6	Mercury	0.07 J	3.4	mg/Kg	SO-DA-03	56 / 61	0.1 - 0.26	3.4	N/A	0.61 N	N/A	N/A	Y	ASL
	7440-02-0	Nickel	4.25 J	22.2	mg/Kg	SO-DA-03	60 / 61	1 - 4.9	22.2	N/A	160 N	N/A	N/A	N	BSL
	7440-09-7	Potassium	190	1000	mg/Kg	SO-CB-05-02	61 / 61	41	1000	N/A	N/A	N/A	N/A	N	NUT
	7782-49-2	Selenium	0.65 J	6.1	mg/Kg	SO-DP-16	21 / 61	0.58 - 3.9	6.1	N/A	39 N	N/A	N/A	N	BSL
	7440-22-4	Silver	0.28 J	2.7	mg/Kg	SO-NR-20	39 / 60	0.19 - 1.8	2.7	N/A	39 N	N/A	N/A	N	BSL
	7440-23-5	Sodium	171 J	960 J	mg/Kg	SO-SS-05	33 / 60	6.4 - 268	960	N/A	N/A	N/A	N/A	N	NUT
	7440-28-0	Thallium	0.72 J	3.6 J	mg/Kg	SO-DP-16	17 / 61	0.6 - 7.8	3.6	N/A	0.52 N	N/A	N/A	Y	ASL
	7440-62-2	Vanadium	8.75	58.1	mg/Kg	SO-DP-12	61 / 61	1.4	58.1	N/A	55 N	N/A	N/A	Y	ASL
	7440-66-6	Zinc	33.5	44800	mg/Kg	SO-DP-16	61 / 61	0.1 - 3.3	44800	N/A	2300 N	N/A	N/A	Y	ASL

(a) Data presented are from soil samples SO-CB-05-01 through SO-CB-05-09, SO-CB-05-10 (and duplicate), SO-DA-01 (and duplicate), SO-DA-02 through SO-DA-05, SO-DP-01 through SO-DP-05, SO-DP-06 (and duplicate), SO-DP-07 through SO-DP-19, SO-DP-20 (and duplicate), SO-DP-21 through SO-DP-25, SO-DP-26 (and duplicate), SO-NR-16, SO-NR-17, SO-NR-18 (and duplicate), SO-NR-19, SO-NR-20, SO-KF-01 through SO-KF-04, SO-KF-05 (and duplicate), SO-KF-06 through SO-KF-10, SO-SS-01, SO-SS-02 (and duplicate), and SO-SS-03 through SO-SS-05.

(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 residential soil (adjusted to an hazard quotient = 0.1 for noncarcinogens), October 1, 2002.
PRG for chromium VI 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)
(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 3-2.3.1
COPCs DETECTED IN SOIL AT STATION NR
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
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
Station NR (a)	7440-38-2	Arsenic	39.6	266	mg/Kg	SO-NR-20	5 / 5	N/A
	7440-43-9	Cadmium	1.2	3	mg/Kg	SO-NR-20	2 / 5	0.3 - 0.69
	7440-47-3	Chromium	40	228	mg/Kg	SO-NR-20	5 / 5	N/A
	7440-50-8	Copper	38.6	228	mg/Kg	SO-NR-20	5 / 5	N/A
	7439-96-5	Manganese	111	830	mg/Kg	SO-NR-20	5 / 5	N/A
	7439-97-6	Mercury	0.38	2	mg/Kg	SO-NR-20	5 / 5	N/A
	7440-28-0	Thallium	ND	ND	mg/Kg	ND	0 / 5	1.7 - 2
	7440-62-2	Vanadium	8.75	31.8	mg/Kg	SO-NR-20	5 / 5	N/A
	7440-66-6	Zinc	105 J	708 J	mg/Kg	SO-NR-20	5 / 5	N/A

(a) Data presented are from soil samples SO-NR-16, SO-NR-17, SO-NR-18 (and duplicate), SO-NR-19, and SO-NR-20; only COPCs selected on Table 3-2.3 appear.
(1) Minimum/maximum detected concentration.
Definitions: COPC = Chemical of Potential Concern
N/A = Not Applicable or Not Available
ND = Not Detected
J = Estimated Value

TABLE 3-2.3.2
COPCs DETECTED IN SOIL AT STATION WS/WSS
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
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
Station WS/WSS (a)	7440-38-2	Arsenic	8.1	10.9	mg/Kg	SO-SS-03	5 / 5	N/A
	7440-43-9	Cadmium	0.31 J	0.37 J	mg/Kg	SO-SS-05	2 / 5	0.19 - 0.2
	7440-47-3	Chromium	9.3	19.7	mg/Kg	SO-SS-05	5 / 5	N/A
	7440-50-8	Copper	18.3	33.8 J	mg/Kg	SO-SS-02	5 / 5	N/A
	7439-96-5	Manganese	90.6	204	mg/Kg	SO-SS-05	5 / 5	N/A
	7439-97-6	Mercury	0.09 J	0.13 J	mg/Kg	SO-SS-01	5 / 5	N/A
	7440-28-0	Thallium	1.5 J	1.5 J	mg/Kg	SO-SS-01	1 / 5	0.6 - 1.4
	7440-62-2	Vanadium	13.1	24.3	mg/Kg	SO-SS-03	5 / 5	N/A
	7440-66-6	Zinc	33.5	81.5 J	mg/Kg	SO-SS-05	5 / 5	N/A

(a) Data presented are from soil samples SO-SS-01, SO-SS-02 (and duplicate), and SO-SS-03 through SO-SS-05; only COPCs selected on Table 3-2.3 appear.
(1) Minimum/maximum detected concentration.
Definitions: COPC = Chemical of Potential Concern
N/A = Not Applicable or Not Available
ND = Not Detected
J = Estimated Value

TABLE 3-2.3.3
COPCs DETECTED IN SOIL AT STATION CB-05
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
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
Station CB-05 (a)	7440-38-2	Arsenic	16.8	86.3	mg/Kg	SO-CB-05-05	10 / 10	N/A
	7440-43-9	Cadmium	0.22 J	1.1	mg/Kg	SO-CB-05-06	9 / 10	0.22
	7440-47-3	Chromium	13.4	211	mg/Kg	SO-CB-05-03	10 / 10	N/A
	7440-50-8	Copper	26.5	82.9	mg/Kg	SO-CB-05-05	10 / 10	N/A
	7439-96-5	Manganese	128 J	309	mg/Kg	SO-CB-05-05	10 / 10	N/A
	7439-97-6	Mercury	0.07 J	0.6	mg/Kg	SO-CB-05-05	10 / 10	N/A
	7440-28-0	Thallium	0.72 J	1.85 J	mg/Kg	SO-CB-05-10	4 / 10	0.65 - 0.8
	7440-62-2	Vanadium	17.2	34.9	mg/Kg	SO-CB-05-05	10 / 10	N/A
	7440-66-6	Zinc	60.7 J	259	mg/Kg	SO-CB-05-06	10 / 10	N/A

(a) Data presented are from soil samples SO-CB-05-01 through SO-CB-05-09, and SO-CB-05-10 (and duplicate); only COPCs selected on Table 3-2.3 appear.
(1) Minimum/maximum detected concentration.
Definitions: COPC = Chemical of Potential Concern
N/A = Not Applicable or Not Available
ND = Not Detected
J = Estimated Value

TABLE 3-2.3.4
COPCs DETECTED IN SOIL AT STATION DA
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
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
Station DA (a)	7440-38-2	Arsenic	21.8 J	272 J	mg/Kg	SO-DA-03	5 / 5	N/A
	7440-43-9	Cadmium	0.3 J	4.6 J	mg/Kg	SO-DA-03	4 / 5	0.23
	7440-47-3	Chromium	32.6 J	550 J	mg/Kg	SO-DA-03	5 / 5	N/A
	7440-50-8	Copper	41.4 J	320 J	mg/Kg	SO-DA-03	5 / 5	N/A
	7439-96-5	Manganese	58.1	2850	mg/Kg	SO-DA-03	5 / 5	N/A
	7439-97-6	Mercury	0.31 J	3.4	mg/Kg	SO-DA-03	5 / 5	N/A
	7440-28-0	Thallium	1.6 J	3.4	mg/Kg	SO-DA-03	2 / 5	1.5 - 1.7
	7440-62-2	Vanadium	14.1	41.9	mg/Kg	SO-DA-03	5 / 5	N/A
	7440-66-6	Zinc	53.1	843	mg/Kg	SO-DA-03	5 / 5	N/A

(a) Data presented are from soil samples SO-DA-01 (and duplicate), and SO-DA-02 through SO-DA-05; only COPCs selected on Table 3-2.3 appear.
(1) Minimum/maximum detected concentration.
Definitions: COPC = Chemical of Potential Concern
N/A = Not Applicable or Not Available
ND = Not Detected
J = Estimated Value

TABLE 3-2.3.5
COPCs DETECTED IN SOIL AT STATION KF
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
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
Station KF (a)	7440-38-2	Arsenic	19.9	54.55	mg/Kg	SO-KF-05	10 / 10	N/A
	7440-43-9	Cadmium	0.86	2.05 J	mg/Kg	SO-KF-05	7 / 10	0.44 - 0.76
	7440-47-3	Chromium	48.4	141	mg/Kg	SO-KF-02	10 / 10	N/A
	7440-50-8	Copper	50.6	143.5	mg/Kg	SO-KF-05	10 / 10	N/A
	7439-96-5	Manganese	245	1340	mg/Kg	SO-KF-05	10 / 10	N/A
	7439-97-6	Mercury	0.27 J	0.855 J	mg/Kg	SO-KF-05	10 / 10	N/A
	7440-28-0	Thallium	ND	ND	mg/Kg	ND	0 / 10	1.7 - 1.8
	7440-62-2	Vanadium	15.5	37.35	mg/Kg	SO-KF-05	10 / 10	N/A
	7440-66-6	Zinc	181 J	489	mg/Kg	SO-KF-05	10 / 10	N/A

(a) Data presented are from soil samples SO-KF-01 through SO-KF-04, SO-KF-05 (and duplicate), and SO-KF-06 through SO-KF-10; only COPCs selected on Table 3-2.3 appear.
(1) Minimum/maximum detected concentration.
Definitions: COPC = Chemical of Potential Concern
N/A = Not Applicable or Not Available
ND = Not Detected
J = Estimated Value

TABLE 3-2.3.6
COPCs DETECTED IN SOIL AT STATION 07/DP
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
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
Station 07/DP (a)	7440-38-2	Arsenic	6.05 J	219	mg/Kg	SO-DP-26	26 / 26	5.6
	7440-43-9	Cadmium	0.6475 J	0.6475 J	mg/Kg	SO-DP-26	1 / 26	0.1 - 0.5
	7440-47-3	Chromium	24.4 J	316 J	mg/Kg	SO-DP-26	26 / 26	1.5
	7440-50-8	Copper	20.8	298.5	mg/Kg	SO-DP-26	26 / 26	0.60
	7439-96-5	Manganese	84.8 J	818	mg/Kg	SO-DP-25	26 / 26	0.20
	7439-97-6	Mercury	0.22 J	2.35	mg/Kg	SO-DP-26	21 / 26	0.1 - 0.26
	7440-28-0	Thallium	1.775 J	3.6 J	mg/Kg	SO-DP-16	10 / 26	1.6 - 7.8
	7440-62-2	Vanadium	15.6	58.1	mg/Kg	SO-DP-12	26 / 26	1.4
	7440-66-6	Zinc	55.8	44800	mg/Kg	SO-DP-16	26 / 26	0.1 - 3.3

(a) Data presented are from sediment samples SO-DP-01 through SO-DP-05, SO-DP-06 (and duplicate), SO-DP-07 through SO-DP-19, SO-DP-20 (and duplicate), SO-DP-21 through SO-DP-25, and SO-DP-26 (and duplicate); only COPCs selected on Table 3-2.3 appear.
(1) Minimum/maximum detected concentration.
Definitions: COPC = Chemical of Potential Concern
N/A = Not Applicable or Not Available
ND = Not Detected
J = Estimated Value

TABLE 3-2.4
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Surface Water
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)
Combined Data (a)	84-66-2	Diethylphthalate	0.41 J	0.41 J	mg/kg	LF-LK-14-F	1 / 23	0.550 - 1.600	0.41	N/A	110 N	N/A	N/A	N	BSL
	72-54-8	4,4'-DDD	0.0021 J	0.027	mg/kg	LF-LK-21-F	22 / 25	0.0026 - 0.0063	0.027	N/A	0.013 C	N/A	N/A	Y	ASL
	72-55-9	4,4'-DDE	0.0038 J	0.12	mg/kg	LF-RV-10-F	23 / 25	0.019 - 0.024	0.12	N/A	0.0093 C	N/A	N/A	Y	ASL
	50-29-3	4,4'-DDT	0.00064 J	0.019	mg/kg	LF-RV-10-F	16 / 24	0.00098 - 0.005	0.019	N/A	0.0093 C	N/A	N/A	Y	ASL
	309-00-2	Aldrin	0.00031 J	0.00053 J	mg/kg	LF-LK-22-F	6 / 24	0.00051 - 0.0051	0.00053	N/A	0.00019 C	N/A	N/A	Y	ASL
	5103-71-9	alpha-Chlordane	0.0013 J	0.011 J	mg/kg	LF-LK-24-F	20 / 25	0.0029 - 0.011	0.011	N/A	0.009 C	N/A	N/A	Y	ASL
	12672-29-6	Aroclor-1248	0.0079	0.0079	mg/kg	LF-LK-25-F	1 / 24	0.005 - 0.050	0.0079	N/A	0.0016 C	N/A	N/A	Y	ASL
	11097-69-1	Aroclor-1254	0.0096 J	0.18	mg/kg	LF-LK-21-F	23 / 25	0.0099 - 0.010	0.18	N/A	0.0016 C	N/A	N/A	Y	ASL
	11096-82-5	Aroclor-1260	0.014 J	0.32	mg/kg	LF-RV-10-F	25 / 25	N/A	0.32	N/A	0.0016 C	N/A	N/A	Y	ASL
	319-85-7	beta-BHC	0.00030 J	0.00030 J	mg/kg	LF-LK-10-F	1 / 24	0.00051 - 0.0051	0.00030	N/A	0.0018 C	N/A	N/A	N	BSL
	319-86-8	delta-BHC	0.00036 J	0.00058 J	mg/kg	LF-LK-09-F	3 / 24	0.00051 - 0.0051	0.00058	N/A	0.0005 C	N/A	N/A	Y	ASL
	60-57-1	Dieldrin	0.00070 J	0.0029 J	mg/kg	LF-RV-03-F	19 / 25	0.0011 - 0.0098	0.0029	N/A	0.0002 C	N/A	N/A	Y	ASL
	959-98-8	Endosulfan I	0.00038 J	0.00038 J	mg/kg	LF-LK-25-F	1 / 24	0.00051 - 0.0051	0.00038	N/A	0.81 N	N/A	N/A	N	BSL
	33213-65-9	Endosulfan II	0.0026 J	0.0026 J	mg/kg	LF-RV-01-F	1 / 24	0.00098 - 0.0098	0.0026	N/A	0.81 N	N/A	N/A	N	BSL
	1031-07-8	Endosulfan sulfate	0.00080 J	0.0018 J	mg/kg	LF-RV-10-F	3 / 24	0.00098 - 0.0098	0.0018	N/A	0.81 N	N/A	N/A	N	BSL
	72-20-8	Endrin	0.00072 J	0.0098 J	mg/kg	LF-LK-24-F	16 / 24	0.00098 - 0.013	0.010	N/A	0.041 N	N/A	N/A	N	BSL
	7421-36-3	Endrin aldehyde	0.00063 J	0.0089	mg/kg	LF-RV-10-F	11 / 24	0.00098 - 0.0098	0.0089	N/A	0.041 N	N/A	N/A	N	BSL
	53494-70-5	Endrin ketone	0.00061 J	0.00061 J	mg/kg	LF-LK-25-F	1 / 24	0.00098 - 0.0098	0.00061	N/A	0.041 N	N/A	N/A	N	BSL
	5103-74-2	gamma-Chlordane	0.00056 J	0.0051	mg/kg	LF-LK-06-F	25 / 25	N/A	0.0051	N/A	0.009 C	N/A	N/A	N	BSL
	76-44-8	Heptachlor	0.00041 J	0.00041 J	mg/kg	LF-LK-22-F	1 / 24	0.00051 - 0.0051	0.00041	N/A	0.0007 C	N/A	N/A	N	BSL
	1024-57-3	Heptachlor epoxide	0.00030 J	0.0017 J	mg/kg	LF-RV-03-F	6 / 25	0.00051 - 0.0052	0.0017	N/A	0.00035 C	N/A	N/A	Y	ASL

TABLE 3-2.4
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Surface Water
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)
	7429-90-5	Aluminum	0.87 J	4.2 J	mg/kg	LF-LK-07-F	11 / 25	0.49 - 2.6	4.2	N/A	N/A	N/A	N/A	N	NTX
	7440-36-0	Antimony	0.092	0.16	mg/kg	LF-LK-07-F	4 / 25	0.077 - 0.11	0.16	N/A	0.054 N	N/A	N/A	Y	ASL
	7440-38-2	Arsenic	0.17	0.17	mg/kg	LF-LK-25-F	1 / 25	0.071 - 0.42	0.17	N/A	0.0021 C	N/A	N/A	Y	ASL
	7440-43-9	Cadmium	0.012	0.023	mg/kg	LF-LK-25-F	11 / 25	0.0085 - 0.015	0.023	N/A	0.14 N	N/A	N/A	N	BSL
	7440-47-3	Chromium	0.053 J	0.16 J	mg/kg	LF-LK-07-F	17 / 25	0.062 - 0.1	0.16	N/A	0.41 N	N/A	N/A	N	BSL
	7440-48-4	Cobalt	0.041 J	0.054 J	mg/kg	LF-LK-25-F	4 / 25	0.032 - 0.05	0.054	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	0.12 J	0.8	mg/kg	LF-LK-25-F	24 / 25	0.24	0.80	N/A	5.4 N	N/A	N/A	N	BSL
	7439-89-6	Iron	4 J	43.7 J	mg/kg	LF-LK-25-F	5 / 25	2.8 - 8.5	43.7	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	0.062 J	2.3 J	mg/kg	LF-LK-25-F	4 / 25	0.051 - 0.13	2.3	N/A	N/A	N/A	N/A	Y	ABK
	7439-97-6	Mercury	0.018	0.58 J	mg/kg	LF-RV-01-F	21 / 25	0.058 - 0.096	0.58	N/A	0.014 N	N/A	N/A	Y	ASL
	7440-09-7	Potassium	3005 J	4370	mg/kg	LF-RV-02-F	25 / 25	N/A	4370	N/A	N/A	N/A	N/A	N	NUT
	7782-49-2	Selenium	0.27 J	0.84 J	mg/kg	LF-LK-14-F	25 / 25	N/A	0.84	N/A	0.68 N	N/A	N/A	Y	ASL
	7440-22-4	Silver	0.037 J	0.037 J	mg/kg	LF-RV-06-F	1 / 25	0.027 - 0.064	0.037	N/A	0.68 N	N/A	N/A	N	BSL
	7440-66-6	Zinc	4.8	7.9 J	mg/kg	LF-RV-14-F	23 / 25	6.9 - 7.6	7.9	N/A	41 N	N/A	N/A	N	BSL

(a) Data presented are from fish fillet tissue samples LF-LK-06-F, LF-LK-07-F, LF-LK-08-F, LF-LK-09-F, LF-LK-10-F, LF-LK-11-F, LF-LK-12-F, LF-LK-13-F, LF-LK-14-F, LF-LK-20-F, LF-LK-21-F, LF-LK-22-F, LF-LK-23-F, LF-LK-24-F, LF-LK-25-F, LF-RV-01-F, LF-RV-02-F, LF-RV-03-F, LF-RV-04-F, LF-RV-05-F, LF-RV-06-F, LF-RV-10-F, LF-RV-13-F, LF-RV-14-F, and LF-RV-15-F.

(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), April 14, 2004.
The most conservative RBC for all BHCs has been used for delta-BHC.
RBC for endosulfan has been used for endosulfan I, endosulfan II, and endosulfan sulfate.
RBC for chlordane has been used for alpha- and gamma-chlordane.
RBC for endrin has been used for endrin aldehyde and endrin ketone.
RBC for PCBs has been used for all Aroclors.
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)
Above Background (ABK)
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 3-2.4.1
COPCs DETECTED IN FISH TISSUE AT REACH 3
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Surface Water
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
Reach 3 (a)	72-54-8	4,4'-DDD	0.0021 J	0.0098	mg/Kg	LF-LK-06-F	8 / 9	0.0026
	72-55-9	4,4'-DDE	0.0038 J	0.026	mg/Kg	LF-RV-01-F	9 / 9	N/A
	50-29-3	4,4'-DDT	0.00084 J	0.0046 J	mg/Kg	LF-LK-10-F	4 / 8	0.00098 - 0.005
	309-00-2	Aldrin	0.00031 J	0.00032 J	mg/Kg	LF-LK-09-F	2 / 8	0.00051 - 0.0026
	5103-71-9	alpha-Chlordane	0.0013 J	0.0089 J	mg/Kg	LF-LK-06-F	9 / 9	N/A
	12672-29-6	Aroclor-1248	ND	ND	mg/Kg	ND	0 / 8	0.005 - 0.025
	11097-69-1	Aroclor-1254	0.0096 J	0.036 J	mg/Kg	LF-RV-03-F	7 / 9	0.0099 - 0.010
	11096-82-5	Aroclor-1260	0.014 J	0.11	mg/Kg	LF-RV-01-F	9 / 9	N/A
	319-86-8	delta-BHC	0.00036 J	0.00058 J	mg/Kg	LF-LK-09-F	3 / 8	0.00051 - 0.0026
	60-57-1	Dieldrin	0.00077 J	0.0029 J	mg/Kg	LF-RV-03-F	9 / 9	N/A
	1024-57-3	Heptachlor epoxide	0.00030 J	0.0017 J	mg/Kg	LF-RV-03-F	5 / 9	0.00051 - 0.001
	7440-36-0	Antimony	0.092	0.16	mg/Kg	LF-LK-07-F	3 / 9	0.082 - 0.1
	7440-38-2	Arsenic	ND	ND	mg/Kg	ND	0 / 9	0.071 - 0.42
	7439-92-1	Lead	0.062 J	0.062 J	mg/Kg	LF-RV-03-F	1 / 9	0.051 - 0.13
	7439-97-6	Mercury	0.023 J	0.58 J	mg/Kg	LF-RV-01-F	5 / 9	0.058 - 0.096
	7782-49-2	Selenium	0.27 J	0.78 J	mg/Kg	LF-RV-03-F	9 / 9	N/A

(a) Data presented are from fish fillet tissue samples LF-LK-06-F, LF-LK-07-F, LF-LK-08-F, LF-LK-09-F, LF-LK-10-F, LF-RV-01-F, LF-RV-02-F, LF-RV-03-F & LF-RV-04-F; only COPCs selected on Table 3-2.4 appear.

(1) Minimum/maximum detected concentration.

Definitions:
COPC = Chemical of Potential Concern
N/A = Not Applicable or Not Available
ND = Not Detected
J = Estimated Value

TABLE 3-2.4.2
COPCs DETECTED IN FISH TISSUE AT REACHES 4 & 5
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Surface Water
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
Reaches 4 & 5 (a)	72-54-8	4,4'-DDD	0.0021 J	0.021	mg/Kg	LF-RV-10-F	8 / 10	0.0053 - 0.0063
	72-55-9	4,4'-DDE	0.0057	0.120	mg/Kg	LF-RV-10-F	8 / 10	0.019 - 0.024
	50-29-3	4,4'-DDT	0.00064 J	0.019	mg/Kg	LF-RV-10-F	8 / 10	0.002
	309-00-2	Aldrin	0.00037 J	0.00053 J	mg/Kg	LF-RV-10-F	3 / 10	0.00051 - 0.0051
	5103-71-9	alpha-Chlordane	0.0015 J	0.0030	mg/Kg	LF-LK-14-F	6 / 10	0.0029 - 0.0084
	12672-29-6	Aroclor-1248	ND	ND	mg/Kg	ND	0 / 10	0.005 - 0.050
	11097-69-1	Aroclor-1254	0.017	0.14	mg/Kg	LF-RV-15-F	10 / 10	N/A
	11096-82-5	Aroclor-1260	0.015	0.32	mg/Kg	LF-RV-10-F	10 / 10	N/A
	319-86-8	delta-BHC	ND	ND	mg/Kg	ND	0 / 10	0.00051 - 0.0051
	60-57-1	Dieldrin	0.00070 J	0.0015 J	mg/Kg	LF-RV-13-F	8 / 10	0.002 - 0.0098
	1024-57-3	Heptachlor epoxide	ND	ND	mg/Kg	ND	0 / 10	0.00051 - 0.0051
	7440-36-0	Antimony	0.14	0.14	mg/Kg	LF-RV-06-F	1 / 10	0.089 - 0.11
	7440-38-2	Arsenic	ND	ND	mg/Kg	ND	0 / 10	0.085 - 0.13
	7439-92-1	Lead	0.072 J	0.072 J	mg/Kg	LF-LK-11-F	1 / 10	0.061 - 0.097
	7439-97-6	Mercury	0.10 J	0.57 J	mg/Kg	LF-RV-10-F	10 / 10	N/A
	7782-49-2	Selenium	0.39 J	0.84 J	mg/Kg	LF-LK-14-F	10 / 10	N/A

(a) Data presented are from fish fillet tissue samples LF-LK-11-F, LF-LK-12-F, LF-LK-13-F, LF-LK-14-F, LF-RV-05-F, LF-RV-06-F, LF-RV-10-F, LF-RV-13-F, LF-RV-14-F, and LF-RV-15-F; only COPCs selected on Table 3-2.4 appear.

(1) Minimum/maximum detected concentration.

Definitions: COPC = Chemical of Potential Concern
N/A = Not Applicable or Not Available
ND = Not Detected
J = Estimated Value

TABLE 3-2.4.3
COPCs DETECTED IN FISH TISSUE AT REACH 6
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Surface Water
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
Reach 6 (a)	72-54-8	4,4'-DDD	0.0040	0.027	mg/Kg	LF-LK-21-F	6 / 6	N/A
	72-55-9	4,4'-DDE	0.0061	0.083	mg/Kg	LF-LK-21-F	6 / 6	N/A
	50-29-3	4,4'-DDT	0.0011 J	0.0067 J	mg/Kg	LF-LK-21-F	4 / 6	0.0011 - 0.0049
	309-00-2	Aldrin	0.00053 J	0.00053 J	mg/Kg	LF-LK-22-F	1 / 6	0.00055 - 0.0051
	5103-71-9	alpha-Chlordane	0.0035 J	0.011 J	mg/Kg	LF-LK-24-F	5 / 6	0.011
	12672-29-6	Aroclor-1248	0.0079	0.0079	mg/Kg	LF-LK-25-F	1 / 6	0.005 - 0.050
	11097-69-1	Aroclor-1254	0.015	0.18	mg/Kg	LF-LK-21-F	6 / 6	N/A
	11096-82-5	Aroclor-1260	0.025	0.11	mg/Kg	LF-LK-21-F	6 / 6	N/A
	319-86-8	delta-BHC	ND	ND	mg/Kg	ND	0 / 6	0.00051 - 0.0051
	60-57-1	Dieldrin	0.0016 J	0.0023 J	mg/Kg	LF-LK-24-F	2 / 6	0.0011 - 0.0098
	1024-57-3	Heptachlor epoxide	0.00053 J	0.00053 J	mg/Kg	LF-LK-25-F	1 / 6	0.00051 - 0.0051
	7440-36-0	Antimony	ND	ND	mg/Kg	ND	0 / 6	0.077 - 0.1
	7440-38-2	Arsenic	0.17	0.17	mg/Kg	LF-LK-25-F	1 / 6	0.074 - 0.097
	7439-92-1	Lead	0.076 J	2.3 J	mg/Kg	LF-LK-25-F	2 / 6	0.053 - 0.068
	7439-97-6	Mercury	0.018	0.20 J	mg/Kg	LF-LK-21-F	6 / 6	N/A
	7782-49-2	Selenium	0.45 J	0.65 J	mg/Kg	LF-LK-24-F	6 / 6	N/A

(a) Data presented are from fish fillet tissue samples LF-LK-20-F, LF-LK-21-F, LF-LK-22-F, LF-LK-23-F, LF-LK-24-F, and LF-LK-25-F; only COPCs selected on Table 3-2.4 appear.
(1) Minimum/maximum detected concentration.
Definitions: COPC = Chemical of Potential Concern
N/A = Not Applicable or Not Available
ND = Not Detected
J = Estimated Value

TABLE 3-2.5
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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)
AJRW (a)	7429-90-5	Aluminum	4700	12500	mg/Kg	SD-AJRW09	9 / 9	N/A	12500	N/A	N/A	N/A	N/A	N	NTX
	7440-38-2	Arsenic	20	29	mg/Kg	SD-AJRW17	3 / 9	19 - 20	29	N/A	0.39 C	N/A	N/A	Y	ASL
	7440-39-3	Barium	33	74.5	mg/Kg	SD-AJRW09	9 / 9	N/A	74.5	N/A	540 N	N/A	N/A	N	BSL
	7440-70-2	Calcium	1800	3400	mg/Kg	SD-AJRW09	9 / 9	N/A	3400	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	16	235	mg/Kg	SD-AJRW09	9 / 9	N/A	235	N/A	10000 N	N/A	N/A	N	BSL
	7440-48-4	Cobalt	4.4	9	mg/Kg	SD-AJRW17	9 / 9	N/A	9	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	42	190	mg/Kg	SD-AJRW09	9 / 9	N/A	190	N/A	310 N	N/A	N/A	N	BSL
	7439-89-6	Iron	10000	17000	mg/Kg	SD-AJRW17	9 / 9	N/A	17000	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	78	470	mg/Kg	SD-AJRW09	9 / 9	N/A	470	N/A	400 N	N/A	N/A	Y	ASL
	7439-95-4	Magnesium	1900	4800	mg/Kg	SD-AJRW07	9 / 9	N/A	4800	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	91	330	mg/Kg	SD-AJRW17	9 / 9	N/A	330	N/A	180 N	N/A	N/A	Y	ASL
	7439-97-6	Mercury	0.15	1.045	mg/Kg	SD-AJRW09	9 / 9	N/A	1.045	N/A	0.61 N	N/A	N/A	Y	ASL
	7440-02-0	Nickel	9.7	17	mg/Kg	SD-AJRW09	9 / 9	N/A	17	N/A	160 N	N/A	N/A	N	BSL
	7440-62-2	Vanadium	19	47.5	mg/Kg	SD-AJRW09	9 / 9	N/A	47.5	N/A	55 N	N/A	N/A	N	BSL
	7440-66-6	Zinc	120	395	mg/Kg	SD-AJRW09	9 / 9	N/A	395	N/A	2300 N	N/A	N/A	N	BSL

(a) Data presented are from soil samples SD-AJRW07, SD-AJRW09 (and duplicate), SD-AJRW11, SD-AJRW13, SD-AJRW15, SD-AJRW17, SD-AJRW19, SD-AJRW21, and SD-AJRW23.

(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 residential soil (adjusted to an hazard quotient = 0.1 for noncarcinogens), October 1, 2002.
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).
(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 3-2.6
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
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)
AJRW (a)	7429-90-5	Aluminum	6400	17000	mg/Kg	SO-AJRW12	9 / 9	N/A	17000	N/A	N/A	N/A	N/A	N	NTX
	7440-38-2	Arsenic	24	98	mg/Kg	SO-AJRW22	7 / 9	19 - 20	98	N/A	0.39 C	N/A	N/A	Y	ASL
	7440-39-3	Barium	20	220	mg/Kg	SO-AJRW16	9 / 9	N/A	220	N/A	540 N	N/A	N/A	N	BSL
	7440-70-2	Calcium	680	4800	mg/Kg	SO-AJRW10	9 / 9	N/A	4800	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	19	90	mg/Kg	SO-AJRW18	9 / 9	N/A	90	N/A	30 C	N/A	N/A	Y	ASL
	7440-48-4	Cobalt	3.5	21	mg/Kg	SO-AJRW12	9 / 9	N/A	21	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	26	200	mg/Kg	SO-AJRW24	9 / 9	N/A	200	N/A	310 N	N/A	N/A	N	BSL
	7439-89-6	Iron	11000	34000	mg/Kg	SO-AJRW12	9 / 9	N/A	34000	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	88	930	mg/Kg	SO-AJRW16	9 / 9	N/A	930	N/A	400 N	N/A	N/A	Y	ASL
	7439-95-4	Magnesium	1600	11000	mg/Kg	SO-AJRW12	9 / 9	N/A	11000	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	63	600	mg/Kg	SO-AJRW12	9 / 9	N/A	600	N/A	180 N	N/A	N/A	Y	ASL
	7439-97-6	Mercury	0.22	1.2	mg/Kg	SO-AJRW10	9 / 9	N/A	1.2	N/A	0.61 N	N/A	N/A	Y	ASL
	7440-02-0	Nickel	7	33	mg/Kg	SO-AJRW12	9 / 9	N/A	33	N/A	160 N	N/A	N/A	N	BSL
	7440-09-7	Potassium	1300	1300	mg/Kg	SO-AJRW12	1 / 9	960 - 1000	1300	N/A	N/A	N/A	N/A	N	NUT
	7440-62-2	Vanadium	29	70	mg/Kg	SO-AJRW12	9 / 9	N/A	70	N/A	55 N	N/A	N/A	Y	ASL
	7440-66-6	Zinc	25	250	mg/Kg	SO-AJRW24	9 / 9	N/A	250	N/A	2300 N	N/A	N/A	N	BSL

(a) Data presented are from soil samples SO-AJRW08, SO-AJRW10 (and duplicate), SO-AJRW12, SO-AJRW14, SO-AJRW16, SO-AJRW18, SO-AJRW20, SO-AJRW22, and SO-AJRW24.
(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 residential soil (adjusted to an hazard quotient = 0.1 for noncarcinogens), October 1, 2002.
PRG for chromium VI 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).
(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 3-2.7
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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)
SW-05 Baseflow (a)	7429-90-5	Aluminum	62.2 J	99.7	ug/L	IPSW-05-071401	3 / 11	54.4 - 199	99.7	N/A	N/A	N/A	N/A	N	NTX
	7440-38-2	Arsenic	13	28	ug/L	IPSW-05-071602	11 / 11	N/A	28	N/A	0.045 C	0.018	AWQC	Y	ASL
	7440-39-3	Barium	29.9	46.7	ug/L	IPSW-05-071602	11 / 11	N/A	46.7	N/A	260 N	N/A	N/A	N	BSL
	7440-70-2	Calcium	39600	55200	ug/L	IPSW-05-091002	11 / 11	N/A	55200	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	4.9	14.2	ug/L	IPSW-05-071602	10 / 11	5.7	14.2	N/A	11 N	N/A	N/A	Y	ASL
	7440-48-4	Cobalt	1.2 J	2.2	ug/L	IPSW-05-102502	5 / 11	0.7 - 3	2.2	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	2.8 J	8.7 J	ug/L	IPSW-05-062002	7 / 11	4.5 - 9	8.7	N/A	150 N	1300	AWQC	N	BSL
	7439-89-6	Iron	1950	3460	ug/L	IPSW-05-062002	11 / 11	N/A	3460	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	1.4 J	6.2	ug/L	IPSW-05-071602	7 / 11	2.3 - 2.9	6.2	N/A	15 N	N/A	N/A	N	BSL
	7439-95-4	Magnesium	6550	9180	ug/L	IPSW-05-091801	11 / 11	N/A	9180	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	462	764	ug/L	IPSW-05-071602	11 / 11	N/A	764	N/A	88 N	N/A	N/A	Y	ASL
	7439-97-6	Mercury	0.1 J	0.1 J	ug/L	IPSW-05-071401	1 / 11	0.04 - 0.15	0.1	N/A	1.1 N	0.05	AWQC	Y	ASL
	7440-02-0	Nickel	1.2 J	2.7 J	ug/L	SW-MC-13-0	8 / 11	1.4 - 2.6	2.7	N/A	73 N	610	AWQC	N	BSL
	7440-09-7	Potassium	4860 J	7080 J	ug/L	IPSW-05-091801	10 / 10	N/A	7080	N/A	N/A	N/A	N/A	N	NUT
	7440-23-5	Sodium	55800	82400	ug/L	IPSW-05-071602	10 / 10	N/A	82400	N/A	N/A	N/A	N/A	N	NUT
	7440-62-2	Vanadium	0.7 J	5.4 J	ug/L	SW-MC-13-0	4 / 11	0.6 - 1.5	5.4	N/A	26 N	N/A	N/A	N	BSL
	7440-66-6	Zinc	23.6 J	74	ug/L	IPSW-05-102201	11 / 11	N/A	74	N/A	1100 N	9100	AWQC	N	BSL
SW-05 Storm Event (a)	7440-36-0	Antimony	3.9	3.9	ug/L	IPSW-05-092502	1 / 6	1.7 - 3.9	3.9	N/A	1.5 N	14	AWQC	Y	ASL
	7440-38-2	Arsenic	11.5	23.3	ug/L	IPSW-05-051502	6 / 6	N/A	23.3	N/A	0.045 C	0.018	AWQC	Y	ASL
	7440-39-3	Barium	23.2	40.7	ug/L	IPSW-05-092502	6 / 6	N/A	40.7	N/A	260 N	N/A	N/A	N	BSL
	7440-70-2	Calcium	19700	34600	ug/L	IPSW-05-092502	6 / 6	N/A	34600	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	4.2	12.1	ug/L	IPSW-05-042602	5 / 6	2.6	12.1	N/A	11 N	N/A	N/A	Y	ASL
	7440-48-4	Cobalt	2.2	2.2	ug/L	IPSW-05-101802	1 / 6	0.75 - 2.4	2.2	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	8.4	12.8 J	ug/L	IPSW-05-042602	3 / 6	6.3 - 10.5	12.8	N/A	150 N	1300	AWQC	N	BSL
	7439-89-6	Iron	1150	2210	ug/L	IPSW-05-051502	6 / 6	N/A	2210	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	4.4	6 J	ug/L	IPSW-05-072502	3 / 6	2.5 - 6.4	6	N/A	15 N	N/A	N/A	N	BSL
	7439-95-4	Magnesium	3020	5230	ug/L	IPSW-05-092502	6 / 6	N/A	5230	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	124	529	ug/L	IPSW-05-101802	6 / 6	N/A	529	N/A	88 N	N/A	N/A	Y	ASL
	7439-97-6	Mercury	0.13 J	0.13 J	ug/L	IPSW-05-051502	1 / 6	0.1	0.13	N/A	1.1 N	0.05	AWQC	Y	ASL
	7440-02-0	Nickel	1.5	3	ug/L	IPSW-05-101802	3 / 6	0.9 - 3.3	3	N/A	73 N	610	AWQC	N	BSL
	7440-09-7	Potassium	2930	5060 J	ug/L	IPSW-05-092502	6 / 6	N/A	5060	N/A	N/A	N/A	N/A	N	NUT
	7440-23-5	Sodium	24400	44800	ug/L	IPSW-05-042602	6 / 6	N/A	44800	N/A	N/A	N/A	N/A	N	NUT
	7440-62-2	Vanadium	1.1	2.6	ug/L	IPSW-05-072502	2 / 6	0.67 - 2.3	2.6	N/A	26 N	N/A	N/A	N	BSL
	7440-66-6	Zinc	53.9 J	108	ug/L	IPSW-05-083102	6 / 6	N/A	108	N/A	1100 N	9100	AWQC	N	BSL

TABLE 3-2.7
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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)
SW-06	7429-90-5	Aluminum	65.8 J	363	ug/L	IPSW-06-102201	2 / 10	43.6 - 116	363	N/A	N/A	N/A	N/A	N	NTX
Baseflow (a)	7440-38-2	Arsenic	6.6	18.9	ug/L	IPSW-06-102201	10 / 10	N/A	18.9	N/A	0.045 C	0.018	AWQC	Y	ASL
	7440-39-3	Barium	31.7	42.8	ug/L	IPSW-06-071602	10 / 10	N/A	42.8	N/A	260 N	N/A	N/A	N	BSL
	7440-70-2	Calcium	39200	52000	ug/L	IPSW-06-071602	10 / 10	N/A	52000	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	1.9	13.4	ug/L	IPSW-06-102201	8 / 10	2.7 - 4.7	13.4	N/A	11 N	N/A	N/A	Y	ASL
	7440-48-4	Cobalt	1 J	1.7 J	ug/L	IPSW-06-102201	4 / 10	0.7 - 1.2	1.7	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	1.9 J	14.7	ug/L	IPSW-06-102201	5 / 10	4.6 - 5.2	14.7	N/A	150 N	1300	AWQC	N	BSL
	7439-89-6	Iron	1010	2600	ug/L	IPSW-06-102201	10 / 10	N/A	2600	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	3	14.7	ug/L	IPSW-06-102201	3 / 10	1.4 - 2.6	14.7	N/A	15 N	N/A	N/A	N	BSL
	7439-95-4	Magnesium	6650	8990	ug/L	IPSW-06-071602	10 / 10	N/A	8990	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	367	757	ug/L	IPSW-06-071602	10 / 10	N/A	757	N/A	88 N	N/A	N/A	Y	ASL
	7440-02-0	Nickel	0.8 J	1.8 J	ug/L	IPSW-06-091801	8 / 10	1.5 - 1.6	1.8	N/A	73 N	610	AWQC	N	BSL
	7440-09-7	Potassium	4660 J	6330 J	ug/L	IPSW-06-102201	10 / 10	N/A	6330	N/A	N/A	N/A	N/A	N	NUT
	7440-23-5	Sodium	57600	93100	ug/L	IPSW-06-050802	10 / 10	N/A	93100	N/A	N/A	N/A	N/A	N	NUT
	7440-62-2	Vanadium	0.67 J	1.6 J	ug/L	IPSW-06-102201	4 / 10	0.6 - 0.87	1.6	N/A	26 N	N/A	N/A	N	BSL
	7440-66-6	Zinc	26.3 J	102	ug/L	IPSW-06-102201	10 / 10	N/A	102	N/A	1100 N	9100	AWQC	N	BSL
SW-06	7429-90-5	Aluminum	281	513	ug/L	IPSW-06-042602	4 / 6	224 - 230	513	N/A	N/A	N/A	N/A	N	NTX
Storm Event (a)	7440-36-0	Antimony	3.9	3.9	ug/L	IPSW-06-092502	1 / 6	1.5 - 2.6	3.9	N/A	1.5 N	14	AWQC	Y	ASL
	7440-38-2	Arsenic	15.2	25.5	ug/L	IPSW-06-092502	6 / 6	N/A	25.5	N/A	0.045 C	0.018	AWQC	Y	ASL
	7440-39-3	Barium	24.4	47.9	ug/L	IPSW-06-092502	6 / 6	N/A	47.9	N/A	260 N	N/A	N/A	N	BSL
	7440-70-2	Calcium	19400	35000	ug/L	IPSW-06-092502	6 / 6	N/A	35000	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	8	24.2	ug/L	IPSW-06-101802	5 / 6	11.2	24.2	N/A	11 N	N/A	N/A	Y	ASL
	7440-48-4	Cobalt	1.3 J	2.1	ug/L	IPSW-06-101802	2 / 6	0.57 - 3.3	2.1	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	10.9	112 J	ug/L	IPSW-06-042602	5 / 6	11.9	112	N/A	150 N	1300	AWQC	N	BSL
	7439-89-6	Iron	1540	3405	ug/L	IPSW-06-101802	6 / 6	N/A	3405	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	11.9	16.25	ug/L	IPSW-06-101802	3 / 6	7.1 - 7.9	16.25	N/A	15 N	N/A	N/A	Y	ASL
	7439-95-4	Magnesium	2870	5590	ug/L	IPSW-06-092502	6 / 6	N/A	5590	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	177	490	ug/L	IPSW-06-101802	6 / 6	N/A	490	N/A	88 N	N/A	N/A	Y	ASL
	7439-97-6	Mercury	0.12 J	0.16 J	ug/L	IPSW-06-101802	2 / 6	0.1	0.16	N/A	1.1 N	0.05	AWQC	Y	ASL
	7440-02-0	Nickel	1.4 J	3.3	ug/L	IPSW-06-101802	3 / 6	1.7 - 4.4	3.3	N/A	73 N	610	AWQC	N	BSL
	7440-09-7	Potassium	3010	5290 J	ug/L	IPSW-06-092502	6 / 6	N/A	5290	N/A	N/A	N/A	N/A	N	NUT
	7440-23-5	Sodium	27300	64300	ug/L	IPSW-06-042602	6 / 6	N/A	64300	N/A	N/A	N/A	N/A	N	NUT
	7440-62-2	Vanadium	2.1	2.1	ug/L	IPSW-06-101802	2 / 6	1.1 - 3.5	2.1	N/A	26 N	N/A	N/A	N	BSL
	7440-66-6	Zinc	63.4	118	ug/L	IPSW-06-101802	6 / 6	N/A	118	N/A	1100 N	9100	AWQC	N	BSL

TABLE 3-2.7
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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)
SW-07	7429-90-5	Aluminum	87.9	111	ug/L	IPSW-07-050802	2 / 10	43.6 - 216	111	N/A	N/A	N/A	N/A	N	NTX
Baseflow (a)	7440-38-2	Arsenic	4.8 J	8.3	ug/L	IPSW-07-080602	6 / 10	7.9 - 10.9	8.3	N/A	0.045 C	0.018	AWQC	Y	ASL
	7440-39-3	Barium	31.5	42.7	ug/L	IPSW-07-071602	10 / 10	N/A	42.7	N/A	260 N	N/A	N/A	N	BSL
	7440-70-2	Calcium	34500	48400	ug/L	IPSW-07-071602	10 / 10	N/A	48400	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	2.6	5.7	ug/L	IPSW-07-091002	8 / 10	3 - 3.5	5.7	N/A	11 N	N/A	N/A	N	BSL
	7440-48-4	Cobalt	0.86 J	0.86 J	ug/L	IPSW-07-062002	1 / 10	0.7 - 1	0.86	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	4.3 J	7.6 J	ug/L	IPSW-07-062002	6 / 10	4.8 - 7.6	7.6	N/A	150 N	1300	AWQC	N	BSL
	7439-89-6	Iron	951	1800	ug/L	IPSW-07-062002	10 / 10	N/A	1800	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	2.8 J	5.6	ug/L	IPSW-07-062002	5 / 10	2.9 - 5.8	5.6	N/A	15 N	N/A	N/A	N	BSL
	7439-95-4	Magnesium	5790	8100	ug/L	IPSW-07-071602	10 / 10	N/A	8100	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	234	591	ug/L	IPSW-07-071602	10 / 10	N/A	591	N/A	88 N	N/A	N/A	Y	ASL
	7440-02-0	Nickel	1.1 J	2.4 J	ug/L	IPSW-07-102201	7 / 10	1.4 - 1.9	2.4	N/A	73 N	610	AWQC	N	BSL
	7440-09-7	Potassium	4180 J	6850 J	ug/L	IPSW-07-102201	10 / 10	N/A	6850	N/A	N/A	N/A	N/A	N	NUT
	7440-23-5	Sodium	56000	96600	ug/L	IPSW-07-050802	10 / 10	N/A	96600	N/A	N/A	N/A	N/A	N	NUT
	7440-62-2	Vanadium	0.71 J	1.2	ug/L	IPSW-07-050802	3 / 10	0.6 - 1.5	1.2	N/A	26 N	N/A	N/A	N	BSL
	7440-66-6	Zinc	26	60.2	ug/L	IPSW-07-102201	10 / 10	N/A	60.2	N/A	1100 N	9100	AWQC	N	BSL
SW-07	7429-90-5	Aluminum	386	651	ug/L	IPSW-07-042602	2 / 6	115 - 288	651	N/A	N/A	N/A	N/A	N	NTX
Storm Event (a)	7440-36-0	Antimony	1.25 J	1.25 J	ug/L	IPSW-07-092502	1 / 6	1.6 - 3	1.25	N/A	1.5 N	14	AWQC	N	BSL
	7440-38-2	Arsenic	4.8 J	18.1	ug/L	IPSW-07-051502	6 / 6	N/A	18.1	N/A	0.045 C	0.018	AWQC	Y	ASL
	7440-39-3	Barium	25.2	31.4	ug/L	IPSW-07-101802	6 / 6	N/A	31.4	N/A	260 N	N/A	N/A	N	BSL
	7440-70-2	Calcium	19300	25650	ug/L	IPSW-07-072502	6 / 6	N/A	25650	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	2.95 J	13.2	ug/L	IPSW-07-042602	4 / 6	3.3 - 4	13.2	N/A	11 N	N/A	N/A	Y	ASL
	7440-48-4	Cobalt	1.5	1.5	ug/L	IPSW-07-101802	1 / 6	0.4 - 1.8	1.5	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	6.5	51.7 J	ug/L	IPSW-07-042602	5 / 6	8.4	51.7	N/A	150 N	1300	AWQC	N	BSL
	7439-89-6	Iron	777	2520	ug/L	IPSW-07-042602	6 / 6	N/A	2520	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	3.5	17	ug/L	IPSW-07-042602	4 / 6	3.7 - 5.7	17	N/A	15 N	N/A	N/A	Y	ASL
	7439-95-4	Magnesium	3050	4250	ug/L	IPSW-07-101802	6 / 6	N/A	4250	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	114.5	308	ug/L	IPSW-07-042602	6 / 6	N/A	308	N/A	88 N	N/A	N/A	Y	ASL
	7439-97-6	Mercury	0.11 J	0.11 J	ug/L	IPSW-07-101802	1 / 6	0.1	0.11	N/A	1.1 N	0.05	AWQC	Y	ASL
	7440-02-0	Nickel	1.25 J	2.4	ug/L	IPSW-07-101802	3 / 6	0.92 - 2.7	2.4	N/A	73 N	610	AWQC	N	BSL
	7440-09-7	Potassium	2980	3910 J	ug/L	IPSW-07-092502	6 / 6	N/A	3910	N/A	N/A	N/A	N/A	N	NUT
	7440-23-5	Sodium	29200	46700	ug/L	IPSW-07-042602	6 / 6	N/A	46700	N/A	N/A	N/A	N/A	N	NUT
	7440-62-2	Vanadium	0.56 J	2.9	ug/L	IPSW-07-042602	3 / 6	0.64 - 2.3	2.9	N/A	26 N	N/A	N/A	N	BSL
	7440-66-6	Zinc	36.15 J	111	ug/L	IPSW-07-042602	6 / 6	N/A	111	N/A	1100 N	9100	AWQC	N	BSL

TABLE 3-2.7
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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)
SW-08	7429-90-5	Aluminum	121	121	ug/L	IPSW-08-071401	1 / 10	43.6 - 129	121	N/A	N/A	N/A	N/A	N	NTX
Baseflow (a)	7440-38-2	Arsenic	2.55 J	6.35	ug/L	IPSW-08-080602	5 / 10	3 - 8.3	6.35	N/A	0.045 C	0.018	AWQC	Y	ASL
	7440-39-3	Barium	41.3	62.9	ug/L	IPSW-08-091002	10 / 10	N/A	62.9	N/A	260 N	N/A	N/A	N	BSL
	7440-70-2	Calcium	31300	46100	ug/L	IPSW-08-071602	10 / 10	N/A	46100	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	1.4 J	2.75	ug/L	IPSW-08-062002	8 / 10	2.3 - 3.2	2.75	N/A	11 N	N/A	N/A	N	BSL
	7440-48-4	Cobalt	0.545 J	0.545 J	ug/L	IPSW-08-062002	1 / 10	0.4 - 1	0.545	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	2.25 J	21.1 J	ug/L	IPSW-08-062002	5 / 10	2.3 - 7.4	21.1	N/A	150 N	1300	AWQC	N	BSL
	7439-89-6	Iron	595.5	1350	ug/L	IPSW-08-071401	10 / 10	N/A	1350	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	1.8 J	4.9	ug/L	IPSW-08-071401	4 / 10	1.5 - 4.1	4.9	N/A	15 N	N/A	N/A	N	BSL
	7439-95-4	Magnesium	5350	7800	ug/L	IPSW-08-071602	10 / 10	N/A	7800	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	147	425	ug/L	IPSW-08-071602	10 / 10	N/A	425	N/A	88 N	N/A	N/A	Y	ASL
	7440-02-0	Nickel	0.59 J	1.3 J	ug/L	IPSW-08-102502	6 / 10	1.4 - 1.6	1.3	N/A	73 N	610	AWQC	N	BSL
	7440-09-7	Potassium	3960 J	6350 J	ug/L	IPSW-08-102201	10 / 10	N/A	6350	N/A	N/A	N/A	N/A	N	NUT
	7440-23-5	Sodium	58950	90250	ug/L	IPSW-08-050802	10 / 10	N/A	90250	N/A	N/A	N/A	N/A	N	NUT
	7440-62-2	Vanadium	0.52 J	1.3	ug/L	IPSW-08-050802	4 / 10	0.65 - 1.3	1.3	N/A	26 N	N/A	N/A	N	BSL
	7440-66-6	Zinc	8 J	40.5	ug/L	IPSW-08-102502	10 / 10	N/A	40.5	N/A	1100 N	9100	AWQC	N	BSL
SW-08	7429-90-5	Aluminum	109	3397	ug/L	IPSW-08-00-051602	6 / 6	N/A	3397	N/A	N/A	N/A	N/A	N	NTX
Storm Event (a)	7440-36-0	Antimony	0.82	1.8	ug/L	IPSW-08-00-051602	6 / 6	N/A	1.8	N/A	1.5 N	14	AWQC	Y	ASL
	7440-38-2	Arsenic	4.5	30	ug/L	IPSW-08-00-051602	6 / 6	N/A	30	N/A	0.045 C	0.018	AWQC	Y	ASL
	7440-39-3	Barium	23	95	ug/L	IPSW-08-00-051602	6 / 6	N/A	95	N/A	260 N	N/A	N/A	N	BSL
	7440-41-7	Beryllium	0.094	0.27	ug/L	IPSW-08-00-072502	6 / 6	N/A	0.27	N/A	7.3 N	N/A	N/A	N	BSL
	7440-43-9	Cadmium	0.10	1.3	ug/L	IPSW-08-00-051602	6 / 6	N/A	1.3	N/A	1.8 N	N/A	N/A	N	BSL
	7440-70-2	Calcium	18397	24603	ug/L	IPSW-08-00-042602	6 / 6	N/A	24603	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	3.1	59	ug/L	IPSW-08-00-051602	6 / 6	N/A	59	N/A	11 N	N/A	N/A	Y	ASL
	7440-48-4	Cobalt	0.30	4.1	ug/L	IPSW-08-00-051602	6 / 6	N/A	4.1	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	4.1	79	ug/L	IPSW-08-00-051602	6 / 6	N/A	79	N/A	150 N	1300	AWQC	N	BSL
	7439-89-6	Iron	839	8858	ug/L	IPSW-08-00-051602	6 / 6	N/A	8858	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	3.9	83	ug/L	IPSW-08-00-051602	6 / 6	N/A	83	N/A	15 N	N/A	N/A	Y	ASL
	7439-95-4	Magnesium	3177	4029	ug/L	IPSW-08-00-042602	6 / 6	N/A	4029	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	155	807	ug/L	IPSW-08-00-051602	6 / 6	N/A	807	N/A	88 N	N/A	N/A	Y	ASL
	7439-97-6	Mercury	0.054	0.24	ug/L	IPSW-08-00-051602	6 / 6	N/A	0.24	N/A	1.1 N	0.05	AWQC	Y	ASL
	7440-02-0	Nickel	0.93	6.5	ug/L	IPSW-08-00-051602	6 / 6	N/A	6.5	N/A	73 N	610	AWQC	N	BSL
	7440-09-7	Potassium	3055	3844	ug/L	IPSW-08-00-042602	6 / 6	N/A	3844	N/A	N/A	N/A	N/A	N	NUT
	7782-49-2	Selenium	1.1	1.7	ug/L	IPSW-08-00-051602	6 / 6	N/A	1.7	N/A	18 N	170	AWQC	N	BSL
	7440-22-4	Silver	0.25	0.40	ug/L	IPSW-08-00-101802	6 / 6	N/A	0.40	N/A	18 N	N/A	N/A	N	BSL
	7440-23-5	Sodium	29524	52968	ug/L	IPSW-08-00-042602	6 / 6	N/A	52968	N/A	N/A	N/A	N/A	N	NUT
	7440-28-0	Thallium	1.2	2.2	ug/L	IPSW-08-00-083102	6 / 6	N/A	2.2	N/A	0.24 N	0.24	AWQC	Y	ASL
	7440-62-2	Vanadium	0.87	10	ug/L	IPSW-08-00-051602	6 / 6	N/A	10	N/A	26 N	N/A	N/A	N	BSL
	7440-66-6	Zinc	25	307	ug/L	IPSW-08-00-051602	6 / 6	N/A	307	N/A	1100 N	9100	AWQC	N	BSL

TABLE 3-2.7
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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)
SW-09 Baseflow (a)	7440-38-2	Arsenic	1.5 J	3.8	ug/L	IPSW-09-080602	4 / 10	1.9 - 6.3	3.8	N/A	0.045 C	0.018	AWQC	Y	ASL
	7440-39-3	Barium	31.6 J	36.9	ug/L	IPSW-09-102201	10 / 10	N/A	36.9	N/A	260 N	N/A	N/A	N	BSL
	7440-70-2	Calcium	23000	32700	ug/L	IPSW-09-050802	10 / 10	N/A	32700	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	0.5 J	1.1 J	ug/L	IPSW-09-091801	3 / 10	0.6 - 1	1.1	N/A	11 N	N/A	N/A	N	BSL
	7440-48-4	Cobalt	1.2 J	1.2 J	ug/L	IPSW-09-071401	1 / 10	0.4 - 1	1.2	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	1.8 J	6.2 J	ug/L	IPSW-09-062002	5 / 10	2.1 - 6.3	6.2	N/A	150 N	1300	AWQC	N	BSL
	7439-89-6	Iron	92	315	ug/L	IPSW-09-071401	7 / 10	48.1 - 186	315	N/A	N/A	N/A	N/A	N	NTX
	7439-95-4	Magnesium	3890	5480	ug/L	IPSW-09-091002	10 / 10	N/A	5480	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	15.7	98.4	ug/L	IPSW-09-071401	10 / 10	N/A	98.4	N/A	88 N	N/A	N/A	Y	ASL
	7440-02-0	Nickel	0.72 J	1.6 J	ug/L	IPSW-09-102201	2 / 10	0.7 - 1.8	1.6	N/A	73 N	610	AWQC	N	BSL
	7440-09-7	Potassium	3250 J	4960	ug/L	IPSW-09-050802	10 / 10	N/A	4960	N/A	N/A	N/A	N/A	N	NUT
	7440-23-5	Sodium	49900	92300	ug/L	IPSW-09-050802	10 / 10	N/A	92300	N/A	N/A	N/A	N/A	N	NUT
	7440-62-2	Vanadium	1.6	1.6	ug/L	IPSW-09-071401	1 / 10	0.4 - 1.3	1.6	N/A	26 N	N/A	N/A	N	BSL
	7440-66-6	Zinc	2.5 J	15.7 J	ug/L	IPSW-09-050802	5 / 10	0.7 - 8.6	15.7	N/A	1100 N	9100	AWQC	N	BSL
SW-09 Storm Event (a)	7440-36-0	Antimony	2.5 J	2.5 J	ug/L	IPSW-09-051502	1 / 6	1.2 - 2.8	2.5	N/A	1.5 N	14	AWQC	Y	ASL
	7440-38-2	Arsenic	1.95 J	4.2	ug/L	IPSW-09-092502	3 / 6	2 - 9.3	4.2	N/A	0.045 C	0.018	AWQC	Y	ASL
	7440-39-3	Barium	32.15	36.05	ug/L	IPSW-09-092502	6 / 6	N/A	36.05	N/A	260 N	N/A	N/A	N	BSL
	7440-43-9	Cadmium	0.38 J	0.38 J	ug/L	IPSW-09-042602	1 / 6	0.2 - 0.4	0.38	N/A	1.8 N	N/A	N/A	N	BSL
	7440-70-2	Calcium	30150	34650	ug/L	IPSW-09-042602	6 / 6	N/A	34650	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	0.605 J	0.605 J	ug/L	IPSW-09-042602	1 / 6	0.4 - 1.2	0.605	N/A	11 N	N/A	N/A	N	BSL
	7440-50-8	Copper	3.5	3.5	ug/L	IPSW-09-083102	1 / 6	3.2 - 4.6	3.5	N/A	150 N	1300	AWQC	N	BSL
	7439-89-6	Iron	77.75 J	234	ug/L	IPSW-09-051502	4 / 6	99.1 - 136	234	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	1.035 J	1.3 J	ug/L	IPSW-09-083102	2 / 6	0.7 - 2.3	1.3	N/A	15 N	N/A	N/A	N	BSL
	7439-95-4	Magnesium	4970	5735	ug/L	IPSW-09-101802	6 / 6	N/A	5735	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	22.7	72.4	ug/L	IPSW-09-051502	6 / 6	N/A	72.4	N/A	88 N	N/A	N/A	N	BSL
	7440-02-0	Nickel	0.55 J	1.4 J	ug/L	IPSW-09-051502	2 / 6	0.77 - 1.6	1.4	N/A	73 N	610	AWQC	N	BSL
	7440-09-7	Potassium	3690 J	5645	ug/L	IPSW-09-042602	6 / 6	N/A	5645	N/A	N/A	N/A	N/A	N	NUT
	7440-23-5	Sodium	63600	109000	ug/L	IPSW-09-042602	6 / 6	N/A	109000	N/A	N/A	N/A	N/A	N	NUT
	7440-62-2	Vanadium	0.62 J	0.93 J	ug/L	IPSW-09-083102	2 / 6	0.4 - 1.3	0.93	N/A	26 N	N/A	N/A	N	BSL
	7440-66-6	Zinc	2.4 J	115 J	ug/L	IPSW-09-051502	3 / 6	3.2 - 16.5	115	N/A	1100 N	9100	AWQC	N	BSL

TABLE 3-2.7
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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)
SW-10 Baseflow (a)	7429-90-5	Aluminum	60.6 J	60.6 J	ug/L	IPSW-10-071401	1 / 10	37.2 - 200	60.6	N/A	N/A	N/A	N/A	N	NTX
	7440-38-2	Arsenic	2.4 J	2.4 J	ug/L	IPSW-10-080602	1 / 10	1.2 - 5.8	2.4	N/A	0.045 C	0.018	AWQC	Y	ASL
	7440-39-3	Barium	34.5	45.8	ug/L	IPSW-10-102201	10 / 10	N/A	45.8	N/A	260 N	N/A	N/A	N	BSL
	7440-70-2	Calcium	24200	32800	ug/L	IPSW-10-050802	10 / 10	N/A	32800	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	0.66 J	1.4 J	ug/L	IPSW-10-071602	7 / 10	0.8 - 3	1.4	N/A	11 N	N/A	N/A	N	BSL
	7440-50-8	Copper	1.7 J	3.4 J	ug/L	IPSW-10-062002	5 / 10	1.8 - 5.4	3.4	N/A	150 N	1300	AWQC	N	BSL
	7439-89-6	Iron	107 J	377	ug/L	IPSW-10-071602	7 / 10	60 - 171	377	N/A	N/A	N/A	N/A	N	NTX
	7439-95-4	Magnesium	4610	6790	ug/L	IPSW-10-102201	10 / 10	N/A	6790	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	12.9	65.1	ug/L	IPSW-10-102502	10 / 10	N/A	65.1	N/A	88 N	N/A	N/A	N	BSL
	7439-97-6	Mercury	0.36	0.36	ug/L	IPSW-10-102502	1 / 10	0.1 - 0.15	0.36	N/A	1.1 N	0.05	AWQC	Y	ASL
	7440-02-0	Nickel	0.85 J	1.6	ug/L	IPSW-10-091801	3 / 10	0.9 - 1.5	1.6	N/A	73 N	610	AWQC	N	BSL
	7440-09-7	Potassium	3540 J	5150 J	ug/L	IPSW-10-062002	10 / 10	N/A	5150	N/A	N/A	N/A	N/A	N	NUT
	7440-23-5	Sodium	54400	102000	ug/L	IPSW-10-050802	10 / 10	N/A	102000	N/A	N/A	N/A	N/A	N	NUT
	7440-66-6	Zinc	0.73 J	11.9 J	ug/L	IPSW-10-050802	6 / 10	0.7 - 8.3	11.9	N/A	1100 N	9100	AWQC	N	BSL
SW-10 Storm Event (a)	7440-38-2	Arsenic	2.775 J	2.775 J	ug/L	IPSW-10-083102	1 / 6	1.3 - 3	2.775	N/A	0.045 C	0.018	AWQC	Y	ASL
	7440-39-3	Barium	35.3	46.05	ug/L	IPSW-10-101802	6 / 6	N/A	46.05	N/A	260 N	N/A	N/A	N	BSL
	7440-70-2	Calcium	29400	33100	ug/L	IPSW-10-101802	6 / 6	N/A	33100	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	0.78 J	2	ug/L	IPSW-10-042602	4 / 6	0.4 - 0.99	2	N/A	11 N	N/A	N/A	N	BSL
	7440-50-8	Copper	2.1 J	2.1 J	ug/L	IPSW-10-083102	1 / 6	2.5 - 5.1	2.1	N/A	150 N	1300	AWQC	N	BSL
	7439-89-6	Iron	122.5	122.5	ug/L	IPSW-10-101802	1 / 6	49.8 - 124	122.5	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	1.125 J	1.125 J	ug/L	IPSW-10-083102	1 / 6	0.7 - 2.3	1.125	N/A	15 N	N/A	N/A	N	BSL
	7439-95-4	Magnesium	5550	7235	ug/L	IPSW-10-101802	6 / 6	N/A	7235	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	10.9	55.45	ug/L	IPSW-10-101802	6 / 6	N/A	55.45	N/A	88 N	N/A	N/A	N	BSL
	7439-97-6	Mercury	0.1 J	0.1 J	ug/L	IPSW-10-092502	1 / 6	0.1	0.1	N/A	1.1 N	0.05	AWQC	Y	ASL
	7440-02-0	Nickel	1.4 J	3.25 J	ug/L	IPSW-10-083102	2 / 6	0.9 - 1.9	3.25	N/A	73 N	610	AWQC	N	BSL
	7440-09-7	Potassium	4120 J	5580	ug/L	IPSW-10-042602	6 / 6	N/A	5580	N/A	N/A	N/A	N/A	N	NUT
	7440-23-5	Sodium	59150	111000	ug/L	IPSW-10-042602	6 / 6	N/A	111000	N/A	N/A	N/A	N/A	N	NUT
	7440-62-2	Vanadium	1 J	1 J	ug/L	IPSW-10-092502	1 / 6	0.4 - 1.6	1	N/A	26 N	N/A	N/A	N	BSL

(a) Data includes baseflow samples collected between July 2001 and October 2002 and storm event samples collected during storm events in April, May, July, August, September, and October 2002. Data from sample SW-MC-13 has been combined with SW-05 baseflow data.
(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 1, 2002.
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.
PRG for mercuric chloride 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
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 3-2.8
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
WELLS G&H SUPERFUND SITE OU3

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

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)
SC05 (a)	7429-90-5	Aluminum	13000	19000	mg/Kg	SC0523	4 / 4	N/A	19000	N/A	N/A	N/A	N/A	N	NTX
	7440-36-0	Antimony	13	13	mg/Kg	SC0523	1 / 4	8.2 - 12	13	N/A	3.1 N	N/A	N/A	Y	ASL
	7440-38-2	Arsenic	210	900	mg/Kg	SC0523	4 / 4	N/A	900	N/A	0.39 C	N/A	N/A	Y	ASL
	7440-39-3	Barium	55	78	mg/Kg	SC0523	4 / 4	N/A	78	N/A	540 N	N/A	N/A	N	BSL
	7440-41-7	Beryllium	1.1	1.5	mg/Kg	SC0523	2 / 4	1.2	1.5	N/A	15 N	N/A	N/A	N	BSL
	7440-43-9	Cadmium	4.2	24	mg/Kg	SC0534	4 / 4	N/A	24	N/A	3.7 N	N/A	N/A	Y	ASL
	7440-70-2	Calcium	5000	10000	mg/Kg	SC0534	4 / 4	N/A	10000	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	700	1500	mg/Kg	SC0523	4 / 4	N/A	1500	N/A	10000 N	N/A	N/A	N	BSL
	7440-48-4	Cobalt	10	17	mg/Kg	SC0523	4 / 4	N/A	17	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	450	1600	mg/Kg	SC0523	4 / 4	N/A	1600	N/A	310 N	N/A	N/A	Y	ASL
	7439-89-6	Iron	24000	50000	mg/Kg	SC0523	4 / 4	N/A	50000	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	240	640	mg/Kg	SC0523	4 / 4	N/A	640	N/A	400 N	N/A	N/A	Y	ASL
	7439-95-4	Magnesium	1700	3100	mg/Kg	SC0501	4 / 4	N/A	3100	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	250	390	mg/Kg	SC0501	4 / 4	N/A	390	N/A	180 N	N/A	N/A	Y	ASL
	7439-97-6	Mercury	3.5 J	26 J	mg/Kg	SC0523	4 / 4	N/A	26	N/A	0.61 N	N/A	N/A	Y	ASL
	7440-02-0	Nickel	17	22	mg/Kg	SC0523	4 / 4	N/A	22	N/A	160 N	N/A	N/A	N	BSL
	7440-22-4	Silver	1.5	2	mg/Kg	SC0523	2 / 4	1.8	2	N/A	39 N	N/A	N/A	N	BSL
	7440-23-5	Sodium	1800	2100	mg/Kg	SC0534	2 / 4	1200	2100	N/A	N/A	N/A	N/A	N	NUT
	7440-62-2	Vanadium	34	61	mg/Kg	SC0523	4 / 4	N/A	61	N/A	55 N	N/A	N/A	Y	ASL
	7440-66-6	Zinc	790	1900	mg/Kg	SC0534	4 / 4	N/A	1900	N/A	2300 N	N/A	N/A	N	BSL
	7440-47-3	Chromium VI	7.51	16.09	mg/Kg	SC0523	4 / 4	N/A	16.09	N/A	30 C	N/A	N/A	N	BSL
SC06 (a)	7429-90-5	Aluminum	2400	19000	mg/Kg	SC0612	4 / 4	N/A	19000	N/A	N/A	N/A	N/A	N	NTX
	7440-38-2	Arsenic	66	1700	mg/Kg	SC0612	4 / 4	N/A	1700	N/A	0.39 C	N/A	N/A	Y	ASL
	7440-39-3	Barium	14	150	mg/Kg	SC0601	4 / 4	N/A	150	N/A	540 N	N/A	N/A	N	BSL
	7440-43-9	Cadmium	6.9	48	mg/Kg	SC0612	3 / 4	1.6	48	N/A	3.7 N	N/A	N/A	Y	ASL
	7440-70-2	Calcium	2000.0	6800.0	mg/Kg	SC0601	4 / 4	N/A	6800	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	52	750	mg/Kg	SC0601	4 / 4	N/A	750	N/A	10000 N	N/A	N/A	N	BSL
	7440-48-4	Cobalt	10	52	mg/Kg	SC0601	3 / 4	3.3	52	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	41	950	mg/Kg	SC0612	4 / 4	N/A	950	N/A	310 N	N/A	N/A	Y	ASL
	7439-89-6	Iron	5000	120000	mg/Kg	SC0601	4 / 4	N/A	120000	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	22	620	mg/Kg	SC0612	4 / 4	N/A	620	N/A	400 N	N/A	N/A	Y	ASL
	7439-95-4	Magnesium	460	3300	mg/Kg	SC0601	4 / 4	N/A	3300	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	110	1800	mg/Kg	SC0601	4 / 4	N/A	1800	N/A	180 N	N/A	N/A	Y	ASL
	7439-97-6	Mercury	0.31 J	8.2 J	mg/Kg	SC0601	4 / 4	N/A	8.2	N/A	0.61 N	N/A	N/A	Y	ASL
	7440-02-0	Nickel	8	39	mg/Kg	SC0601	2 / 4	6.6 - 22	39	N/A	160 N	N/A	N/A	N	BSL
	7440-62-2	Vanadium	5.3	64	mg/Kg	SC0601	4 / 4	N/A	64	N/A	55 N	N/A	N/A	Y	ASL
	7440-66-6	Zinc	200	4600	mg/Kg	SC0612	4 / 4	N/A	4600	N/A	2300 N	N/A	N/A	Y	ASL
	7440-47-3	Chromium VI	0.56	8.05	mg/Kg	SC0601	4 / 4	N/A	8.05	N/A	30 C	N/A	N/A	N	BSL

TABLE 3-2.8
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
WELLS G&H SUPERFUND SITE OU3

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

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)
SC07 (a)	7429-90-5	Aluminum	5200	10000	mg/Kg	SC0712	3 / 3	N/A	10000	N/A	N/A	N/A	N/A	N	NTX
	7440-38-2	Arsenic	61	440	mg/Kg	SC0701	4 / 4	N/A	440	N/A	0.39 C	N/A	N/A	Y	ASL
	7440-39-3	Barium	19	95	mg/Kg	SC0701	4 / 4	N/A	95	N/A	540 N	N/A	N/A	N	BSL
	7440-41-7	Beryllium	1.2	1.6	mg/Kg	SC0723	2 / 4	1 - 3.4	1.6	N/A	15 N	N/A	N/A	N	BSL
	7440-43-9	Cadmium	2.7	25	mg/Kg	SC0701	4 / 4	N/A	25	N/A	3.7 N	N/A	N/A	Y	ASL
	7440-70-2	Calcium	12000	18000	mg/Kg	SC0723	4 / 4	N/A	18000	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	240	2700	mg/Kg	SC0701	4 / 4	N/A	2700	N/A	10000 N	N/A	N/A	N	BSL
	7440-48-4	Cobalt	8.6	68	mg/Kg	SC0701	4 / 4	N/A	68	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	77	910	mg/Kg	SC0701	4 / 4	N/A	910	N/A	310 N	N/A	N/A	Y	ASL
	7439-89-6	Iron	6500	59000	mg/Kg	SC0701	4 / 4	N/A	59000	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	36	570	mg/Kg	SC0701	4 / 4	N/A	570	N/A	400 N	N/A	N/A	Y	ASL
	7439-95-4	Magnesium	1400	3200	mg/Kg	SC0701	4 / 4	N/A	3200	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	270	2600	mg/Kg	SC0701	4 / 4	N/A	2600	N/A	180 N	N/A	N/A	Y	ASL
	7439-97-6	Mercury	0.41 J	3.7 J	mg/Kg	SC0701	4 / 4	N/A	3.7	N/A	0.61 N	N/A	N/A	Y	ASL
	7440-02-0	Nickel	9	49	mg/Kg	SC0701	4 / 4	N/A	49	N/A	160 N	N/A	N/A	N	BSL
	7440-62-2	Vanadium	30	72	mg/Kg	SC0701	4 / 4	N/A	72	N/A	55 N	N/A	N/A	Y	ASL
	7440-66-6	Zinc	460	4800	mg/Kg	SC0701	4 / 4	N/A	4800	N/A	2300 N	N/A	N/A	Y	ASL
	7440-47-3	Chromium VI	2.57	28.96	mg/Kg	SC0701	4 / 4	N/A	28.96	N/A	30 C	N/A	N/A	N	BSL
SC08 (a)	7429-90-5	Aluminum	1700	21500	mg/Kg	SC0801	4 / 4	N/A	21500	N/A	N/A	N/A	N/A	N	NTX
	7440-38-2	Arsenic	140	1250	mg/Kg	SC0801	2 / 4	N/A	1250	N/A	0.39 C	N/A	N/A	Y	ASL
	7440-39-3	Barium	6.3	93.5	mg/Kg	SC0801	4 / 4	N/A	93.5	N/A	540 N	N/A	N/A	N	BSL
	7440-43-9	Cadmium	3.6	22.4	mg/Kg	SC0801	2 / 4	1 - 3.4	22.4	N/A	3.7 N	N/A	N/A	Y	ASL
	7440-70-2	Calcium	480	8670	mg/Kg	SC0801	4 / 4	N/A	8670	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	5.5	1430	mg/Kg	SC0801	4 / 4	N/A	1430	N/A	10000 N	N/A	N/A	N	BSL
	7440-48-4	Cobalt	4.5	31.1	mg/Kg	SC0801	2 / 4	N/A	31.1	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	130	1410	mg/Kg	SC0801	2 / 4	N/A	1410	N/A	310 N	N/A	N/A	Y	ASL
	7439-89-6	Iron	1800	58200	mg/Kg	SC0801	4 / 4	N/A	58200	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	56	676	mg/Kg	SC0801	2 / 4	N/A	676	N/A	400 N	N/A	N/A	Y	ASL
	7439-95-4	Magnesium	560	2090	mg/Kg	SC0801	4 / 4	N/A	2090	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	25	591	mg/Kg	SC0801	4 / 4	N/A	591	N/A	180 N	N/A	N/A	Y	ASL
	7439-97-6	Mercury	1	14	mg/Kg	SC0801	2 / 4	N/A	14	N/A	0.61 N	N/A	N/A	Y	ASL
	7440-62-2	Vanadium	12	66.9	mg/Kg	SC0801	2 / 4	N/A	66.9	N/A	55 N	N/A	N/A	Y	ASL
	7440-66-6	Zinc	43	2650	mg/Kg	SC0801	4 / 4	N/A	2650	N/A	2300 N	N/A	N/A	Y	ASL
	7440-47-3	Chromium VI	0.06	15.34	mg/Kg	SC0801	4 / 4	N/A	15.34	N/A	30 C	N/A	N/A	N	BSL

TABLE 3-2.8
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
WELLS G&H SUPERFUND SITE OU3

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

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)
SC09 (a)	7429-90-5	Aluminum	4600	7200	mg/Kg	SC0912	4 / 4	N/A	7200	N/A	N/A	N/A	N/A	N	NTX
	7440-38-2	Arsenic	31	89	mg/Kg	SC0901	4 / 4	N/A	89	N/A	0.39 C	N/A	N/A	Y	ASL
	7440-39-3	Barium	14	24	mg/Kg	SC0912	4 / 4	N/A	24	N/A	540 N	N/A	N/A	N	BSL
	7440-70-2	Calcium	1800	2300	mg/Kg	SC0912	4 / 4	N/A	2300	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	33	190	mg/Kg	SC0901	4 / 4	N/A	190	N/A	10000 N	N/A	N/A	N	BSL
	7440-48-4	Cobalt	3.4	5	mg/Kg	SC0912	3 / 4	3.3	5	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	58	160	mg/Kg	SC0901	4 / 4	N/A	160	N/A	310 N	N/A	N/A	N	BSL
	7439-89-6	Iron	6300	13000	mg/Kg	SC0901	4 / 4	N/A	13000	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	19	69	mg/Kg	SC0901	4 / 4	N/A	69	N/A	400 N	N/A	N/A	N	BSL
	7439-95-4	Magnesium	1600	3000	mg/Kg	SC0912	4 / 4	N/A	3000	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	120	140	mg/Kg	SC0901	4 / 4	N/A	140	N/A	180 N	N/A	N/A	N	BSL
	7439-97-6	Mercury	0.28	1.2	mg/Kg	SC0901	4 / 4	N/A	1.2	N/A	0.61 N	N/A	N/A	Y	ASL
	7440-02-0	Nickel	6.7	7.8	mg/Kg	SC0912	3 / 4	6.6	7.8	N/A	160 N	N/A	N/A	N	BSL
	7440-09-7	Potassium	1500	1500	mg/Kg	SC0912	1 / 4	1000 - 1100	1500	N/A	N/A	N/A	N/A	N	NUT
	7440-62-2	Vanadium	10	19	mg/Kg	SC0901	4 / 4	N/A	19	N/A	55 N	N/A	N/A	N	BSL
	7440-66-6	Zinc	260	740	mg/Kg	SC0912	4 / 4	N/A	740	N/A	2300 N	N/A	N/A	N	BSL
	7440-47-3	Chromium VI	0.35	2.04	mg/Kg	SC0901	4 / 4	N/A	2.04	N/A	30 C	N/A	N/A	N	BSL
SC10 (a)	7429-90-5	Aluminum	4600	6300	mg/Kg	SC1034	4 / 4	N/A	6300	N/A	N/A	N/A	N/A	N	NTX
	7440-38-2	Arsenic	21	67	mg/Kg	SC1001	2 / 4	19 - 20	67	N/A	0.39 C	N/A	N/A	Y	ASL
	7440-39-3	Barium	17	30	mg/Kg	SC1023	4 / 4	N/A	30	N/A	540 N	N/A	N/A	N	BSL
	7440-70-2	Calcium	1100	2300	mg/Kg	SC1001	4 / 4	N/A	2300	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	12	130	mg/Kg	SC1001	4 / 4	N/A	130	N/A	10000 N	N/A	N/A	N	BSL
	7440-48-4	Cobalt	3.3	4.5	mg/Kg	SC1034	4 / 4	N/A	4.5	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	15	47	mg/Kg	SC1001	4 / 4	N/A	47	N/A	310 N	N/A	N/A	N	BSL
	7439-89-6	Iron	6500	11000	mg/Kg	SC1001	4 / 4	N/A	11000	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	28	28	mg/Kg	SC1001	1 / 4	9.6 - 10	28	N/A	400 N	N/A	N/A	N	BSL
	7439-95-4	Magnesium	1000	2600	mg/Kg	SC1034	4 / 4	N/A	2600	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	74	110	mg/Kg	SC1001	4 / 4	N/A	110	N/A	180 N	N/A	N/A	N	BSL
	7439-97-6	Mercury	0.033	0.18	mg/Kg	SC1001	2 / 4	0.025	0.18	N/A	0.61 N	N/A	N/A	N	BSL
	7440-02-0	Nickel	6.8	10	mg/Kg	SC1034	2 / 4	6 - 6.6	10	N/A	160 N	N/A	N/A	N	BSL
	7440-09-7	Potassium	1000	1000	mg/Kg	SC1023	1 / 4	980 - 1100	1000	N/A	N/A	N/A	N/A	N	NUT
	7440-62-2	Vanadium	9.2	14	mg/Kg	SC1034	4 / 4	N/A	14	N/A	55 N	N/A	N/A	N	BSL
	7440-66-6	Zinc	73	150	mg/Kg	SC1001	4 / 4	N/A	150	N/A	2300 N	N/A	N/A	N	BSL
	7440-47-3	Chromium VI	0.13	1.39	mg/Kg	SC1001	4 / 4	N/A	1.39	N/A	30 C	N/A	N/A	N	BSL

TABLE 3-2.8
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
WELLS G&H SUPERFUND SITE OU3

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

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)
SC11 (a)	7429-90-5	Aluminum	11500	17000	mg/Kg	SC1134	4 / 4	N/A	17000	N/A	N/A	N/A	N/A	N	NTX
	7440-38-2	Arsenic	97	110	mg/Kg	SC1112	4 / 4	N/A	110	N/A	0.39 C	N/A	N/A	Y	ASL
	7440-39-3	Barium	97	120	mg/Kg	SC1134	4 / 4	N/A	120	N/A	540 N	N/A	N/A	N	BSL
	7440-41-7	Beryllium	1	1.2	mg/Kg	SC1134	3 / 4	0.85	1.2	N/A	15 N	N/A	N/A	N	BSL
	7440-43-9	Cadmium	4.2	7.2	mg/Kg	SC1134	4 / 4	N/A	7.2	N/A	3.7 N	N/A	N/A	Y	ASL
	7440-70-2	Calcium	4900	6000	mg/Kg	SC1134	4 / 4	N/A	6000	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	240	370	mg/Kg	SC1134	4 / 4	N/A	370	N/A	10000 N	N/A	N/A	N	BSL
	7440-48-4	Cobalt	18.5	22	mg/Kg	SC1112	4 / 4	N/A	22	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	215	340	mg/Kg	SC1134	4 / 4	N/A	340	N/A	310 N	N/A	N/A	Y	ASL
	7439-89-6	Iron	29000	32000	mg/Kg	SC1112	4 / 4	N/A	32000	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	250	1200	mg/Kg	SC1134	4 / 4	N/A	1200	N/A	400 N	N/A	N/A	Y	ASL
	7439-95-4	Magnesium	4100	5300	mg/Kg	SC1134	4 / 4	N/A	5300	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	440	630	mg/Kg	SC1112	4 / 4	N/A	630	N/A	180 N	N/A	N/A	Y	ASL
	7439-97-6	Mercury	1.7	2.2	mg/Kg	SC1134	4 / 4	N/A	2.2	N/A	0.61 N	N/A	N/A	Y	ASL
	7440-02-0	Nickel	29.5	45	mg/Kg	SC1134	4 / 4	N/A	45	N/A	160 N	N/A	N/A	N	BSL
	7440-09-7	Potassium	1100	1400	mg/Kg	SC1134	4 / 4	N/A	1400	N/A	N/A	N/A	N/A	N	NUT
	7440-22-4	Silver	4.6	4.6	mg/Kg	SC1134	1 / 4	1.1 - 1.4	4.6	N/A	39 N	N/A	N/A	N	BSL
	7440-62-2	Vanadium	47.5	71	mg/Kg	SC1134	4 / 4	N/A	71	N/A	55 N	N/A	N/A	Y	ASL
	7440-66-6	Zinc	960	1400	mg/Kg	SC1112	4 / 4	N/A	1400	N/A	2300 N	N/A	N/A	N	BSL
	7440-47-3	Chromium VI	2.57	3.97	mg/Kg	SC1134	4 / 4	N/A	3.97	N/A	30 C	N/A	N/A	N	BSL

TABLE 3-2.8
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
WELLS G&H SUPERFUND SITE OU3

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

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)
SC12 (a)	7429-90-5	Aluminum	17000	20000	mg/Kg	SC1234	4 / 4	N/A	20000	N/A	N/A	N/A	N/A	N	NTX
	7440-38-2	Arsenic	100	130	mg/Kg	SC1201	4 / 4	N/A	130	N/A	0.39 C	N/A	N/A	Y	ASL
	7440-39-3	Barium	130	140	mg/Kg	SC1201	4 / 4	N/A	140	N/A	540 N	N/A	N/A	N	BSL
	7440-41-7	Beryllium	1.1	1.5	mg/Kg	SC1234	4 / 4	N/A	1.5	N/A	15 N	N/A	N/A	N	BSL
	7440-43-9	Cadmium	9.3	11	mg/Kg	SC1212	4 / 4	N/A	11	N/A	3.7 N	N/A	N/A	Y	ASL
	7440-70-2	Calcium	5400	6900	mg/Kg	SC1201	4 / 4	N/A	6900	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	390	740	mg/Kg	SC1234	4 / 4	N/A	740	N/A	10000 N	N/A	N/A	N	BSL
	7440-48-4	Cobalt	21	23	mg/Kg	SC1201	4 / 4	N/A	23	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	370	460	mg/Kg	SC1234	4 / 4	N/A	460	N/A	310 N	N/A	N/A	Y	ASL
	7439-89-6	Iron	30000	37000	mg/Kg	SC1201	4 / 4	N/A	37000	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	520	1300	mg/Kg	SC1234	4 / 4	N/A	1300	N/A	400 N	N/A	N/A	Y	ASL
	7439-95-4	Magnesium	5000	5500	mg/Kg	SC1234	4 / 4	N/A	5500	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	470	960	mg/Kg	SC1201	4 / 4	N/A	960	N/A	180 N	N/A	N/A	Y	ASL
	7439-97-6	Mercury	2.4	2.7	mg/Kg	SC1234	4 / 4	N/A	2.7	N/A	0.61 N	N/A	N/A	Y	ASL
	7440-02-0	Nickel	39	41	mg/Kg	SC1234	4 / 4	N/A	41	N/A	160 N	N/A	N/A	N	BSL
	7440-09-7	Potassium	1500	1560	mg/Kg	SC1234	4 / 4	N/A	1560	N/A	N/A	N/A	N/A	N	NUT
	7782-49-2	Selenium	10	10	mg/Kg	SC1234	1 / 4	7.6 - 8.8	10	N/A	39 N	N/A	N/A	N	BSL
	7440-22-4	Silver	3.1	3.6	mg/Kg	SC1234	3 / 4	1.2	3.6	N/A	39 N	N/A	N/A	N	BSL
	7440-62-2	Vanadium	64	86	mg/Kg	SC1234	4 / 4	N/A	86	N/A	55 N	N/A	N/A	Y	ASL
	7440-66-6	Zinc	1700	1800	mg/Kg	SC1201	4 / 4	N/A	1800	N/A	2300 N	N/A	N/A	N	BSL
	7440-47-3	Chromium VI	4.18	7.94	mg/Kg	SC1234	4 / 4	N/A	7.94	N/A	30 C	N/A	N/A	N	BSL

TABLE 3-2.8
OCCURRENCE, DISTRIBUTION AND SELECTION OF CHEMICALS OF POTENTIAL CONCERN
WELLS G&H SUPERFUND SITE OU3

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

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)
SC13 (a)	7429-90-5	Aluminum	9400	22000	mg/Kg	SC1301	4 / 4	N/A	22000	N/A	N/A	N/A	N/A	N	NTX
	7440-38-2	Arsenic	45	120	mg/Kg	SC1301	4 / 4	N/A	120	N/A	0.39 C	N/A	N/A	Y	ASL
	7440-39-3	Barium	72	120	mg/Kg	SC1301	4 / 4	N/A	120	N/A	540 N	N/A	N/A	N	BSL
	7440-41-7	Beryllium	1	1.5	mg/Kg	SC1301	2 / 4	1	1.5	N/A	15 N	N/A	N/A	N	BSL
	7440-43-9	Cadmium	4.0	12.0	mg/Kg	SC1301	4 / 4	N/A	12	N/A	3.7 N	N/A	N/A	Y	ASL
	7440-70-2	Calcium	5900	18000	mg/Kg	SC1334	4 / 4	N/A	18000	N/A	N/A	N/A	N/A	N	NUT
	7440-47-3	Chromium	200	600	mg/Kg	SC1301	4 / 4	N/A	600	N/A	10000 N	N/A	N/A	N	BSL
	7440-48-4	Cobalt	8.5	28	mg/Kg	SC1301	4 / 4	N/A	28	N/A	N/A	N/A	N/A	N	NTX
	7440-50-8	Copper	210	460	mg/Kg	SC1301	4 / 4	N/A	460	N/A	310 N	N/A	N/A	Y	ASL
	7439-89-6	Iron	11500	32000	mg/Kg	SC1301	4 / 4	N/A	32000	N/A	N/A	N/A	N/A	N	NTX
	7439-92-1	Lead	130	810	mg/Kg	SC1301	4 / 4	N/A	810	N/A	400 N	N/A	N/A	Y	ASL
	7439-95-4	Magnesium	2100	5300	mg/Kg	SC1301	4 / 4	N/A	5300	N/A	N/A	N/A	N/A	N	NUT
	7439-96-5	Manganese	180	370	mg/Kg	SC1301	4 / 4	N/A	370	N/A	180 N	N/A	N/A	Y	ASL
	7439-97-6	Mercury	0.95 J	2.1 J	mg/Kg	SC1301	4 / 4	N/A	2.1	N/A	0.61 N	N/A	N/A	Y	ASL
	7440-02-0	Nickel	10.5	37	mg/Kg	SC1301	4 / 4	N/A	37	N/A	160 N	N/A	N/A	N	BSL
	7440-09-7	Potassium	1400	1400	mg/Kg	SC1301	1 / 4	780 - 1000	1400	N/A	N/A	N/A	N/A	N	NUT
	7440-22-4	Silver	1.8	1.8	mg/Kg	SC1301	1 / 4	1.2 - 1.5	1.8	N/A	39 N	N/A	N/A	N	BSL
	7440-23-5	Sodium	750	750	mg/Kg	SC1301	1 / 4	780 - 1000	750	N/A	N/A	N/A	N/A	N	NUT
	7440-62-2	Vanadium	30	87	mg/Kg	SC1301	4 / 4	N/A	87	N/A	55 N	N/A	N/A	Y	ASL
	7440-66-6	Zinc	815	2500	mg/Kg	SC1301	4 / 4	N/A	2500	N/A	2300 N	N/A	N/A	Y	ASL
	7440-47-3	Chromium VI	2.15	6.44	mg/Kg	SC1301	4 / 4	N/A	6.44	N/A	30 C	N/A	N/A	N	BSL

(a) Data presented for each sediment core exposure point include one sample from each of four depth intervals: 0-1 foot, 1-2 foot, 2-3 foot, and 3-4 foot.

(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 residential soil (adjusted to an hazard quotient = 0.1 for noncarcinogens), October 1, 2002.
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).
(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 3-3.1.RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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)
Reach 1									
	Heptachlor epoxide	ug/L	1.5E-02	6.2E-02 (NP)	1.9E-03 J	1.9E-03	ug/L	Max	(g)
	Arsenic	ug/L	2.5E+01	4.6E+01 (G)	7.7E+01	4.6E+01	ug/L	95% UCL - G	(h)
	Cadmium	ug/L	4.3E-01	3.9E+00 (NP)	2.5E+00	2.5E+00	ug/L	Max	(g)
	Chromium	ug/L	2.6E+01	5.9E+01 (T)	1.5E+02	5.9E+01	ug/L	95% UCL - T	(e)
	Lead	ug/L	1.3E+01	1.2E+02 (G)	7.6E+01 J	7.6E+01	ug/L	Max	(g)
	Manganese	ug/L	4.7E+02	5.8E+02 (N)	6.9E+02	5.8E+02	ug/L	95% UCL - N	(d)
	Mercury	ug/L	2.0E-01	6.1E-01 (G)	8.8E-01	6.1E-01	ug/L	95% UCL - G	(h)
Upper Reach 2									
	Trichloroethene	ug/L	2.0E+00	N/A (<4)	2.0E+00	2.0E+00	ug/L	Max	(a)
	Arsenic	ug/L	1.6E+01	N/A (<4)	2.0E+01	2.0E+01	ug/L	Max	(a)
	Cadmium	ug/L	4.9E-01	N/A (<4)	2.3E-01	2.3E-01	ug/L	Max	(a)
	Chromium	ug/L	8.2E+00	N/A (<4)	1.2E+01	1.2E+01	ug/L	Max	(a)
	Lead	ug/L	4.8E+00	N/A (<4)	7.7E+00 J	7.7E+00	ug/L	Max	(a)
	Manganese	ug/L	7.1E+02	N/A (<4)	7.8E+02	7.8E+02	ug/L	Max	(a)
	Mercury	ug/L	1.2E-01	N/A (<4)	1.5E-01 J	1.5E-01	ug/L	Max	(a)
Lower Reach 2									
	Arsenic	ug/L	6.8E+00	N/A (<4)	6.8E+00	6.8E+00	ug/L	Max	(a)
	Chromium	ug/L	2.2E+00	N/A (<4)	2.2E+00	2.2E+00	ug/L	Max	(a)
	Manganese	ug/L	3.6E+02	N/A (<4)	3.6E+02 J	3.6E+02	ug/L	Max	(a)
Reach 3									
	Chromium	ug/L	3.1E+00	N/A (<4)	3.1E+00	3.1E+00	ug/L	Max	(a)
	Lead	ug/L	4.3E+00	N/A (<4)	4.3E+00	4.3E+00	ug/L	Max	(a)
	Manganese	ug/L	5.9E+02	N/A (<4)	5.9E+02	5.9E+02	ug/L	Max	(a)
	Mercury	ug/L	2.2E-01	N/A (<4)	2.2E-01 J	2.2E-01	ug/L	Max	(a)
Reach 4									
	Chromium	ug/L	4.3E+00	N/A (<4)	4.3E+00	4.3E+00	ug/L	Max	(a)
	Lead	ug/L	5.7E+00	N/A (<4)	5.7E+00	5.7E+00	ug/L	Max	(a)
	Manganese	ug/L	5.0E+02	N/A (<4)	5.0E+02	5.0E+02	ug/L	Max	(a)

TABLE 3-3.1.RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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)
Reach 5									
	Chloroform	ug/L	1.0E+00	N/A (<4)	1.0E+00 J	1.0E+00	ug/L	Max	(a)
	Tetrachloroethene	ug/L	2.0E+00	N/A (<4)	2.0E+00	2.0E+00	ug/L	Max	(a)
	Chromium	ug/L	8.5E-01	N/A (<4)	8.5E-01	8.5E-01	ug/L	Max	(a)
	Manganese	ug/L	3.2E+02	N/A (<4)	3.2E+02	3.2E+02	ug/L	Max	(a)
Upper Reach 6									
	Arsenic	ug/L	3.8E+00	N/A (<4)	5.2E+00	5.2E+00	ug/L	Max	(a)
	Chromium	ug/L	1.7E+00	N/A (<4)	3.7E+00	3.7E+00	ug/L	Max	(a)
	Lead	ug/L	3.2E+00	N/A (<4)	7.5E+00 J	7.5E+00	ug/L	Max	(a)
	Manganese	ug/L	2.1E+02	N/A (<4)	3.2E+02	3.2E+02	ug/L	Max	(a)
	Mercury	ug/L	7.7E-02	N/A (<4)	6.9E-02 J	6.9E-02	ug/L	Max	(a)
Lower Reach 6 (Sandy Beach)									
	Arsenic	ug/L	3.1E+00	N/A (<4)	3.1E+00	3.1E+00	ug/L	Max	(a)
	Chromium	ug/L	1.5E+00	N/A (<4)	1.5E+00	1.5E+00	ug/L	Max	(a)
	Lead	ug/L	4.1E+00	N/A (<4)	4.1E+00 J	4.1E+00	ug/L	Max	(a)
	Manganese	ug/L	7.1E+01	N/A (<4)	7.1E+01	7.1E+01	ug/L	Max	(a)
	Mercury	ug/L	4.0E-02	N/A (<4)	4.0E-02 J	4.0E-02	ug/L	Max	(a)

(1) Refer to Tables 3-2.1.1 through 3-2.1.8 for sample groupings; only COPCs selected on Table 3-2.1 and detected in each grouping 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.

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 3-3.1.CT
EXPOSURE POINT CONCENTRATION SUMMARY
CENTRAL TENDENCY EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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)
Reach 1									
	Heptachlor epoxide	ug/L	1.5E-02	6.2E-02 (NP)	1.9E-03 J	1.9E-03	ug/L	Max	(c)
	Arsenic	ug/L	2.5E+01	4.6E+01 (G)	7.7E+01	4.6E+01	ug/L	95% UCL - G	(h)
	Cadmium	ug/L	4.3E-01	3.9E+00 (NP)	2.5E+00	4.3E-01	ug/L	Mean	(b)
	Chromium	ug/L	2.6E+01	5.9E+01 (T)	1.5E+02	5.9E+01	ug/L	95% UCL - T	(e)
	Lead	ug/L	1.3E+01	1.2E+02 (G)	7.6E+01 J	1.3E+01	ug/L	Mean	(b)
	Manganese	ug/L	4.7E+02	5.8E+02 (N)	6.9E+02	5.8E+02	ug/L	95% UCL - N	(d)
	Mercury	ug/L	2.0E-01	6.1E-01 (G)	8.8E-01	6.1E-01	ug/L	95% UCL - G	(h)
Upper Reach 2									
	Trichloroethene	ug/L	2.0E+00	N/A (<4)	2.0E+00	2.0E+00	ug/L	Max	(c)
	Arsenic	ug/L	1.6E+01	N/A (<4)	2.0E+01	1.6E+01	ug/L	Mean	(b)
	Cadmium	ug/L	4.9E-01	N/A (<4)	2.3E-01	2.3E-01	ug/L	Max	(c)
	Chromium	ug/L	8.2E+00	N/A (<4)	1.2E+01	8.2E+00	ug/L	Mean	(b)
	Lead	ug/L	4.8E+00	N/A (<4)	7.7E+00 J	4.8E+00	ug/L	Mean	(b)
	Manganese	ug/L	7.1E+02	N/A (<4)	7.8E+02	7.1E+02	ug/L	Mean	(b)
	Mercury	ug/L	1.2E-01	N/A (<4)	1.5E-01 J	1.2E-01	ug/L	Mean	(b)
Lower Reach 2									
	Arsenic	ug/L	6.8E+00	N/A (<4)	6.8E+00	6.8E+00	ug/L	Max	(c)
	Chromium	ug/L	2.2E+00	N/A (<4)	2.2E+00	2.2E+00	ug/L	Max	(c)
	Manganese	ug/L	3.6E+02	N/A (<4)	3.6E+02 J	3.6E+02	ug/L	Max	(c)
Reach 3									
	Chromium	ug/L	3.1E+00	N/A (<4)	3.1E+00	3.1E+00	ug/L	Max	(c)
	Lead	ug/L	4.3E+00	N/A (<4)	4.3E+00	4.3E+00	ug/L	Max	(c)
	Manganese	ug/L	5.9E+02	N/A (<4)	5.9E+02	5.9E+02	ug/L	Max	(c)
	Mercury	ug/L	2.2E-01	N/A (<4)	2.2E-01 J	2.2E-01	ug/L	Max	(c)
Reach 4									
	Chromium	ug/L	4.3E+00	N/A (<4)	4.3E+00	4.3E+00	ug/L	Max	(c)
	Lead	ug/L	5.7E+00	N/A (<4)	5.7E+00	5.7E+00	ug/L	Max	(c)
	Manganese	ug/L	5.0E+02	N/A (<4)	5.0E+02	5.0E+02	ug/L	Max	(c)

TABLE 3-3.1.CT

EXPOSURE POINT CONCENTRATION SUMMARY

CENTRAL TENDENCY EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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)
Reach 5									
	Chloroform	ug/L	1.0E+00	N/A (<4)	1.0E+00 J	1.0E+00	ug/L	Max	(c)
	Tetrachloroethene	ug/L	2.0E+00	N/A (<4)	2.0E+00	2.0E+00	ug/L	Max	(c)
	Chromium	ug/L	8.5E-01	N/A (<4)	8.5E-01	8.5E-01	ug/L	Max	(c)
	Manganese	ug/L	3.2E+02	N/A (<4)	3.2E+02	3.2E+02	ug/L	Max	(c)
Upper Reach 6									
	Arsenic	ug/L	3.8E+00	N/A (<4)	5.2E+00	3.8E+00	ug/L	Mean	(b)
	Chromium	ug/L	1.7E+00	N/A (<4)	3.7E+00	1.7E+00	ug/L	Mean	(b)
	Lead	ug/L	3.2E+00	N/A (<4)	7.5E+00 J	3.2E+00	ug/L	Mean	(b)
	Manganese	ug/L	2.1E+02	N/A (<4)	3.2E+02	2.1E+02	ug/L	Mean	(b)
	Mercury	ug/L	7.7E-02	N/A (<4)	6.9E-02 J	6.9E-02	ug/L	Max	(c)
Lower Reach 6 (Sandy Beach)	Arsenic	ug/L	3.1E+00	N/A (<4)	3.1E+00	3.1E+00	ug/L	Max	(c)
	Chromium	ug/L	1.5E+00	N/A (<4)	1.5E+00	1.5E+00	ug/L	Max	(c)
	Lead	ug/L	4.1E+00	N/A (<4)	4.1E+00 J	4.1E+00	ug/L	Max	(c)
	Manganese	ug/L	7.1E+01	N/A (<4)	7.1E+01	7.1E+01	ug/L	Max	(c)
	Mercury	ug/L	4.0E-02	N/A (<4)	4.0E-02 J	4.0E-02	ug/L	Max	(c)

(1) Refer to Tables 3-2.1.1 through 3-2.1.8 for sample groupings; only COPCs selected on Table 3-2.1 and detected in each grouping 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.

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 3-3.2.RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station NR									
	Arsenic	mg/kg	1.7E+02	2.1E+02 (N)	2.2E+02	2.1E+02	mg/kg	95% UCL - N	(d)
	Barium	mg/kg	4.1E+01	5.6E+01 (N)	6.6E+01	5.6E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	1.3E+00	2.2E+00 (N)	2.7E+00	2.2E+00	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	1.9E+02	2.5E+02 (N)	2.6E+02	2.5E+02	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	2.0E+02	3.0E+02 (N)	3.7E+02	3.0E+02	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	1.6E+02	2.2E+02 (N)	2.5E+02	2.2E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	1.6E+02	2.5E+02 (N)	3.2E+02	2.5E+02	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	2.6E+00	4.5E+00 (N)	5.9E+00	4.5E+00	mg/kg	95% UCL - N	(d)
	Nickel	mg/kg	1.1E+01	1.4E+01 (N)	1.6E+01	1.4E+01	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	2.4E+01	3.1E+01 (N)	3.3E+01	3.1E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	3.4E+02	4.9E+02 (N)	6.0E+02 J	4.9E+02	mg/kg	95% UCL - N	(d)
Station 14									
	Benzo(a)anthracene	mg/kg	9.7E-01	N/A (<4)	1.1E+00 J	1.1E+00	mg/kg	Max	(a)
	Benzo(a)pyrene	mg/kg	1.0E+00	N/A (<4)	8.9E-01 J	8.9E-01	mg/kg	Max	(a)
	Benzo(b)fluoranthene	mg/kg	1.4E+00	N/A (<4)	2.1E+00 J	2.1E+00	mg/kg	Max	(a)
	Benzo(k)fluoranthene	mg/kg	1.1E+00	N/A (<4)	1.1E+00 J	1.1E+00	mg/kg	Max	(a)
	Phenanthrene	mg/kg	1.5E+00	N/A (<4)	2.6E+00 J	2.6E+00	mg/kg	Max	(a)
	Antimony	mg/kg	9.1E-01	N/A (<4)	9.9E-01 J	9.9E-01	mg/kg	Max	(a)
	Arsenic	mg/kg	6.1E+01	N/A (<4)	7.3E+01	7.3E+01	mg/kg	Max	(a)
	Barium	mg/kg	1.6E+01	N/A (<4)	1.8E+01	1.8E+01	mg/kg	Max	(a)
	Cadmium	mg/kg	6.4E-01	N/A (<4)	1.0E+00	1.0E+00	mg/kg	Max	(a)
	Chromium	mg/kg	1.0E+02	N/A (<4)	2.2E+02	2.2E+02	mg/kg	Max	(a)
	Copper	mg/kg	5.7E+01	N/A (<4)	6.5E+01	6.5E+01	mg/kg	Max	(a)
	Lead	mg/kg	6.8E+01	N/A (<4)	1.3E+02 J	1.3E+02	mg/kg	Max	(a)
	Manganese	mg/kg	1.3E+02	N/A (<4)	1.7E+02 J	1.7E+02	mg/kg	Max	(a)
	Mercury	mg/kg	5.9E-01	N/A (<4)	1.4E+00 J	1.4E+00	mg/kg	Max	(a)
	Nickel	mg/kg	7.3E+00	N/A (<4)	1.0E+01	1.0E+01	mg/kg	Max	(a)
	Thallium	mg/kg	4.9E-01	N/A (<4)	8.1E-01	8.1E-01	mg/kg	Max	(a)
	Vanadium	mg/kg	1.1E+01	N/A (<4)	1.3E+01	1.3E+01	mg/kg	Max	(a)
	Zinc	mg/kg	2.2E+02	N/A (<4)	2.7E+02	2.7E+02	mg/kg	Max	(a)

TABLE 3-3.2.RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station 22/TT-22									
	Tetrachloroethene	mg/kg	1.1E+00	2.8E+00 (N)	3.2E+00	2.8E+00	mg/kg	95% UCL - N	(d)
	Trichloroethene	mg/kg	2.6E-01	7.0E-01 (N)	8.0E-01	7.0E-01	mg/kg	95% UCL - N	(d)
	Benzo(a)anthracene	mg/kg	3.4E-01	N/A (<4)	3.0E-01	3.0E-01	mg/kg	Max	(a)
	Benzo(a)pyrene	mg/kg	3.2E-01	N/A (<4)	2.0E-01	2.0E-01	mg/kg	Max	(a)
	Benzo(b)fluoranthene	mg/kg	3.9E-01	4.9E-01 (NP)	4.4E-01	4.4E-01	mg/kg	Max	(g)
	Benzo(k)fluoranthene	mg/kg	4.2E-01	N/A (<4)	5.4E-01 J	5.4E-01	mg/kg	Max	(a)
	Dibenz(a,h)anthracene	mg/kg	2.5E-01	N/A (<4)	4.4E-02 J	4.4E-02	mg/kg	Max	(a)
	Indeno(1,2,3-cd)pyrene	mg/kg	3.1E-01	N/A (<4)	2.2E-01	2.2E-01	mg/kg	Max	(a)
	Phenanthrene	mg/kg	4.0E-01	N/A (<4)	4.9E-01	4.9E-01	mg/kg	Max	(a)
	Aroclor 1260	mg/kg	3.2E-02	N/A (<4)	2.9E-02	2.9E-02	mg/kg	Max	(a)
	Antimony	mg/kg	7.0E+01	9.2E+02 (G)	3.3E+02 J	3.3E+02	mg/kg	Max	(g)
	Arsenic	mg/kg	2.1E+01	7.7E+01 (G)	8.7E+01 J	7.7E+01	mg/kg	95% UCL - G	(h)
	Barium	mg/kg	4.1E+01	4.9E+01 (NP)	5.1E+01 J	4.9E+01	mg/kg	95% UCL - NP	(f)
	Cadmium	mg/kg	1.0E+00	1.4E+00 (N)	1.7E+00 J	1.4E+00	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	2.5E+01	6.5E+01 (T)	8.5E+01 J	6.5E+01	mg/kg	95% UCL - T	(e)
	Copper	mg/kg	2.3E+01	2.9E+01 (N)	3.8E+01 J	2.9E+01	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	6.8E+03	3.3E+04 (T)	4.1E+04 J	3.3E+04	mg/kg	95% UCL - T	(e)
	Manganese	mg/kg	7.1E+01	1.2E+02 (G)	1.9E+02 J	1.2E+02	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	1.5E-01	4.6E-01 (G)	5.0E-01	4.6E-01	mg/kg	95% UCL - G	(h)
	Nickel	mg/kg	7.8E+00	1.1E+01 (G)	1.8E+01	1.1E+01	mg/kg	95% UCL - G	(h)
	Vanadium	mg/kg	3.1E+01	4.1E+01 (N)	5.0E+01	4.1E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	7.0E+01	9.6E+01 (N)	1.2E+02 J	9.6E+01	mg/kg	95% UCL - N	(d)

TABLE 3-3.2.RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station WH									
	Trichloroethene	mg/kg	5.3E-02	N/A (<4)	5.3E-02 J	5.3E-02	mg/kg	Max	(a)
	Benzo(a)anthracene	mg/kg	4.3E-01	N/A (<4)	5.6E-01 J	5.6E-01	mg/kg	Max	(a)
	Benzo(a)pyrene	mg/kg	1.0E+00	N/A (<4)	1.0E+00 J	1.0E+00	mg/kg	Max	(a)
	Benzo(b)fluoranthene	mg/kg	9.0E-01	N/A (<4)	1.5E+00 J	1.5E+00	mg/kg	Max	(a)
	Benzo(k)fluoranthene	mg/kg	6.9E-01	N/A (<4)	7.2E-01 J	7.2E-01	mg/kg	Max	(a)
	Dibenz(a,h)anthracene	mg/kg	3.1E-01	N/A (<4)	3.2E-01 J	3.2E-01	mg/kg	Max	(a)
	Indeno(1,2,3-cd)pyrene	mg/kg	5.2E-01	N/A (<4)	7.4E-01 J	7.4E-01	mg/kg	Max	(a)
	Phenanthrene	mg/kg	4.4E-01	N/A (<4)	5.7E-01 J	5.7E-01	mg/kg	Max	(a)
	Aroclor 1260	mg/kg	4.1E-02	N/A (<4)	5.8E-02	5.8E-02	mg/kg	Max	(a)
	Antimony	mg/kg	2.6E+01	3.5E+01 (G)	6.8E+01 J	3.5E+01	mg/kg	95% UCL - G	(h)
	Arsenic	mg/kg	3.7E+02	1.9E+03 (T)	3.2E+03	1.9E+03	mg/kg	95% UCL - T	(e)
	Barium	mg/kg	8.1E+01	9.3E+01 (N)	1.3E+02	9.3E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	6.4E+00	1.1E+01 (G)	1.5E+01 J	1.1E+01	mg/kg	95% UCL - G	(h)
	Chromium	mg/kg	4.9E+02	1.2E+03 (G)	2.1E+03	1.2E+03	mg/kg	95% UCL - G	(h)
	Copper	mg/kg	4.0E+02	1.2E+03 (T)	2.1E+03	1.2E+03	mg/kg	95% UCL - T	(e)
	Lead	mg/kg	1.5E+03	1.8E+03 (N)	2.5E+03	1.8E+03	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	2.9E+02	5.1E+02 (G)	7.8E+02	5.1E+02	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	3.0E+00	2.7E+01 (NP)	2.8E+01	2.7E+01	mg/kg	95% UCL - NP	(f)
	Nickel	mg/kg	2.4E+01	4.1E+01 (NP)	4.4E+01	4.1E+01	mg/kg	95% UCL - NP	(f)
	Thallium	mg/kg	5.6E-01	7.7E-01 (N)	1.5E+00	7.7E-01	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	7.8E+01	9.8E+01 (N)	1.6E+02	9.8E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	1.1E+03	2.3E+03 (G)	3.2E+03	2.3E+03	mg/kg	95% UCL - G	(h)
	Chromium VI	mg/kg	6.4E-01	1.5E+00 (G)	2.8E+00 J	1.5E+00	mg/kg	95% UCL - G	(h)

TABLE 3-3.2.RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station WG									
	Trichloroethene	mg/kg	4.2E-02	N/A (<4)	4.2E-02 J	4.2E-02	mg/kg	Max	(a)
	Benzo(a)anthracene	mg/kg	1.3E-01	N/A (<4)	1.3E-01 J	1.3E-01	mg/kg	Max	(a)
	Benzo(a)pyrene	mg/kg	1.6E-01	N/A (<4)	1.6E-01 J	1.6E-01	mg/kg	Max	(a)
	Benzo(b)fluoranthene	mg/kg	2.9E-01	N/A (<4)	2.9E-01 J	2.9E-01	mg/kg	Max	(a)
	Benzo(k)fluoranthene	mg/kg	2.0E-01	N/A (<4)	2.0E-01 J	2.0E-01	mg/kg	Max	(a)
	Dibenz(a,h)anthracene	mg/kg	4.6E-02	N/A (<4)	4.6E-02 J	4.6E-02	mg/kg	Max	(a)
	Indeno(1,2,3-cd)pyrene	mg/kg	1.4E-01	N/A (<4)	1.4E-01 J	1.4E-01	mg/kg	Max	(a)
	Phenanthrene	mg/kg	1.6E-01	N/A (<4)	1.6E-01 J	1.6E-01	mg/kg	Max	(a)
	Aroclor 1260	mg/kg	1.1E-02	N/A (<4)	1.1E-02	1.1E-02	mg/kg	Max	(a)
	Antimony	mg/kg	6.0E+00	9.2E+00 (G)	2.5E+01 J	9.2E+00	mg/kg	95% UCL - G	(h)
	Arsenic	mg/kg	1.4E+02	2.6E+02 (T)	1.5E+03 J	2.6E+02	mg/kg	95% UCL - T	(e)
	Barium	mg/kg	7.9E+01	9.4E+01 (N)	1.8E+02	9.4E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	5.2E+00	6.4E+00 (N)	1.2E+01	6.4E+00	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	5.6E+02	9.3E+02 (G)	2.6E+03	9.3E+02	mg/kg	95% UCL - G	(h)
	Copper	mg/kg	4.8E+02	6.3E+02 (N)	1.3E+03	6.3E+02	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	4.3E+02	5.2E+02 (N)	8.1E+02	5.2E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	7.0E+02	1.0E+03 (G)	1.9E+03	1.0E+03	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	1.4E+00	3.0E+00 (T)	1.2E+01 J	3.0E+00	mg/kg	95% UCL - T	(e)
	Nickel	mg/kg	2.8E+01	3.5E+01 (N)	7.9E+01	3.5E+01	mg/kg	95% UCL - N	(d)
	Thallium	mg/kg	3.6E-01	4.4E-01 (N)	7.0E-01 J	4.4E-01	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	5.4E+01	6.5E+01 (N)	1.0E+02	6.5E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	8.7E+02	1.1E+03 (N)	2.1E+03	1.1E+03	mg/kg	95% UCL - N	(d)

TABLE 3-3.2.RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station WS/WSS									
	Antimony	mg/kg	4.0E+00	4.9E+00 (N)	7.2E+00 J	4.9E+00	mg/kg	95% UCL - N	(d)
	Arsenic	mg/kg	1.7E+02	2.3E+02 (N)	3.4E+02	2.3E+02	mg/kg	95% UCL - N	(d)
	Barium	mg/kg	1.2E+02	1.4E+02 (N)	2.0E+02	1.4E+02	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	8.1E+00	1.1E+01 (N)	1.7E+01	1.1E+01	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	5.0E+02	7.3E+02 (N)	1.3E+03	7.3E+02	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	3.1E+02	4.1E+02 (N)	6.9E+02	4.1E+02	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	2.9E+02	3.7E+02 (N)	4.9E+02	3.7E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	1.0E+03	1.2E+03 (N)	1.4E+03 J	1.2E+03	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	9.8E-01	1.4E+00 (N)	1.8E+00 J	1.4E+00	mg/kg	95% UCL - N	(d)
	Nickel	mg/kg	3.0E+01	3.6E+01 (N)	4.6E+01 J	3.6E+01	mg/kg	95% UCL - N	(d)
	Thallium	mg/kg	7.6E-01	1.1E+00 (N)	2.2E+00 J	1.1E+00	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	3.7E+01	4.5E+01 (N)	5.6E+01	4.5E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	1.5E+03	2.0E+03 (N)	3.4E+03	2.0E+03	mg/kg	95% UCL - N	(d)
	Chromium VI	mg/kg	6.6E-01	9.5E-01 (N)	1.7E+00 J	9.5E-01	mg/kg	95% UCL - N	(d)
Station TT-30									
	Arsenic	mg/kg	1.1E+03	N/A (<4)	1.1E+03 J	1.1E+03	mg/kg	Max	(a)
	Barium	mg/kg	3.3E+01	N/A (<4)	3.3E+01 J	3.3E+01	mg/kg	Max	(a)
	Cadmium	mg/kg	7.1E+00	N/A (<4)	7.1E+00 J	7.1E+00	mg/kg	Max	(a)
	Chromium	mg/kg	5.3E+03	N/A (<4)	5.3E+03 J	5.3E+03	mg/kg	Max	(a)
	Copper	mg/kg	3.8E+03	N/A (<4)	3.8E+03 J	3.8E+03	mg/kg	Max	(a)
	Lead	mg/kg	4.3E+02	N/A (<4)	4.3E+02 J	4.3E+02	mg/kg	Max	(a)
	Manganese	mg/kg	2.1E+02	N/A (<4)	2.1E+02 J	2.1E+02	mg/kg	Max	(a)
	Mercury	mg/kg	8.9E+01	N/A (<4)	8.9E+01 J	8.9E+01	mg/kg	Max	(a)
	Nickel	mg/kg	8.0E+00	N/A (<4)	8.0E+00	8.0E+00	mg/kg	Max	(a)
	Thallium	mg/kg	1.5E+00	N/A (<4)	1.5E+00	1.5E+00	mg/kg	Max	(a)
	Vanadium	mg/kg	2.1E+01	N/A (<4)	2.1E+01	2.1E+01	mg/kg	Max	(a)
	Zinc	mg/kg	1.2E+03	N/A (<4)	1.2E+03	1.2E+03	mg/kg	Max	(a)
	Chromium VI	mg/kg	6.9E+00	N/A (<4)	6.9E+00 J	6.9E+00	mg/kg	Max	(a)

TABLE 3-3.2.RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station CB-01									
	Antimony	mg/kg	1.2E+00	2.0E+00 (G)	4.0E+00 J	2.0E+00	mg/kg	95% UCL - G	(h)
	Arsenic	mg/kg	4.1E+01	5.8E+01 (N)	9.9E+01 J	5.8E+01	mg/kg	95% UCL - N	(d)
	Barium	mg/kg	4.0E+01	5.9E+01 (N)	1.1E+02	5.9E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	5.2E+00	9.3E+00 (G)	1.6E+01 J	9.3E+00	mg/kg	95% UCL - G	(h)
	Chromium	mg/kg	2.2E+02	3.3E+02 (N)	5.8E+02	3.3E+02	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	3.9E+02	7.5E+02 (G)	1.1E+03 J	7.5E+02	mg/kg	95% UCL - G	(h)
	Lead	mg/kg	3.2E+02	4.4E+02 (N)	6.5E+02 J	4.4E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	3.4E+02	6.9E+02 (G)	1.3E+03 J	6.9E+02	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	1.5E+00	2.9E+00 (G)	4.8E+00 J	2.9E+00	mg/kg	95% UCL - G	(h)
	Nickel	mg/kg	9.2E+00	2.0E+01 (NP)	3.2E+01 J	2.0E+01	mg/kg	95% UCL - NP	(f)
	Thallium	mg/kg	1.0E+00	2.5E+00 (T)	3.1E+00	2.5E+00	mg/kg	95% UCL - T	(e)
	Vanadium	mg/kg	5.4E+01	7.9E+01 (G)	1.1E+02	7.9E+01	mg/kg	95% UCL - G	(h)
	Zinc	mg/kg	4.2E+02	6.4E+02 (N)	1.2E+03	6.4E+02	mg/kg	95% UCL - N	(d)
Station CB-02									
	Antimony	mg/kg	1.5E+00	1.8E+00 (N)	2.0E+00 J	1.8E+00	mg/kg	95% UCL - N	(d)
	Arsenic	mg/kg	2.7E+01	4.1E+01 (G)	5.6E+01 J	4.1E+01	mg/kg	95% UCL - G	(h)
	Barium	mg/kg	7.9E+01	1.7E+02 (T)	3.9E+02	1.7E+02	mg/kg	95% UCL - T	(e)
	Cadmium	mg/kg	3.1E+00	3.8E+00 (N)	5.8E+00 J	3.8E+00	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	1.1E+02	1.4E+02 (N)	2.5E+02 J	1.4E+02	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	7.5E+01	9.8E+01 (G)	1.7E+02	9.8E+01	mg/kg	95% UCL - G	(h)
	Lead	mg/kg	1.2E+02	2.4E+02 (NP)	3.4E+02 J	2.4E+02	mg/kg	95% UCL - NP	(f)
	Manganese	mg/kg	5.6E+01	7.2E+01 (G)	1.1E+02 J	7.2E+01	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	2.4E-01	3.3E-01 (G)	5.8E-01	3.3E-01	mg/kg	95% UCL - G	(h)
	Nickel	mg/kg	8.3E+00	1.0E+01 (N)	1.3E+01 J	1.0E+01	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	2.7E+01	3.2E+01 (N)	4.6E+01	3.2E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	2.5E+02	3.1E+02 (N)	4.5E+02 J	3.1E+02	mg/kg	95% UCL - N	(d)

TABLE 3-3.2.RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station CB-03									
	Antimony	mg/kg	1.5E+00	6.8E+00 (NP)	4.8E+00 J	4.8E+00	mg/kg	Max	(g)
	Arsenic	mg/kg	2.7E+02	5.9E+02 (G)	1.4E+03	5.9E+02	mg/kg	95% UCL - G	(h)
	Barium	mg/kg	5.2E+01	6.7E+01 (N)	9.6E+01	6.7E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	7.4E+00	1.3E+01 (G)	2.3E+01 J	1.3E+01	mg/kg	95% UCL - G	(h)
	Chromium	mg/kg	4.6E+02	1.3E+03 (NP)	7.7E+02	7.7E+02	mg/kg	Max	(g)
	Copper	mg/kg	2.7E+02	3.8E+02 (N)	6.7E+02 J	3.8E+02	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	2.0E+02	2.7E+02 (N)	4.4E+02 J	2.7E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	2.8E+02	4.6E+02 (G)	9.9E+02	4.6E+02	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	1.2E+00	2.5E+00 (G)	3.6E+00	2.5E+00	mg/kg	95% UCL - G	(h)
	Nickel	mg/kg	2.6E+01	3.7E+01 (G)	7.8E+01 J	3.7E+01	mg/kg	95% UCL - G	(h)
	Thallium	mg/kg	7.1E-01	9.7E-01 (N)	1.5E+00 J	9.7E-01	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	4.7E+01	6.2E+01 (N)	9.7E+01 J	6.2E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	1.1E+03	2.1E+03 (G)	5.3E+03	2.1E+03	mg/kg	95% UCL - G	(h)
Station CB-04									
	Antimony	mg/kg	3.6E+00	4.8E+00 (N)	7.2E+00	4.8E+00	mg/kg	95% UCL - N	(d)
	Arsenic	mg/kg	1.1E+02	1.8E+02 (G)	3.3E+02	1.8E+02	mg/kg	95% UCL - G	(h)
	Barium	mg/kg	6.1E+01	7.7E+01 (N)	1.1E+02	7.7E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	4.0E+00	5.7E+00 (N)	8.9E+00	5.7E+00	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	1.7E+02	2.7E+02 (G)	5.7E+02	2.7E+02	mg/kg	95% UCL - G	(h)
	Copper	mg/kg	1.8E+02	2.4E+02 (N)	3.6E+02	2.4E+02	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	2.1E+02	2.8E+02 (N)	4.1E+02	2.8E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	4.0E+02	1.4E+03 (NP)	2.4E+03	1.4E+03	mg/kg	95% UCL - NP	(f)
	Mercury	mg/kg	7.3E-01	1.2E+00 (G)	2.2E+00	1.2E+00	mg/kg	95% UCL - G	(h)
	Nickel	mg/kg	4.1E+01	7.7E+01 (G)	1.8E+02	7.7E+01	mg/kg	95% UCL - G	(h)
	Thallium	mg/kg	1.1E+00	6.5E+00 (NP)	5.3E+00	5.3E+00	mg/kg	Max	(g)
	Vanadium	mg/kg	5.5E+01	6.8E+01 (N)	8.5E+01	6.8E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	1.4E+03	3.1E+03 (T)	8.8E+03	3.1E+03	mg/kg	95% UCL - T	(e)

TABLE 3-3.2.RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station CB-06									
	Antimony	mg/kg	1.7E+00	4.7E+00 (NP)	7.8E+00	4.7E+00	mg/kg	95% UCL - NP	(f)
	Arsenic	mg/kg	9.8E+01	1.4E+02 (N)	2.6E+02 J	1.4E+02	mg/kg	95% UCL - N	(d)
	Barium	mg/kg	4.0E+01	5.1E+01 (N)	6.0E+01	5.1E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	8.6E+00	1.7E+01 (G)	3.5E+01	1.7E+01	mg/kg	95% UCL - G	(h)
	Chromium	mg/kg	2.8E+02	5.0E+02 (G)	9.7E+02	5.0E+02	mg/kg	95% UCL - G	(h)
	Copper	mg/kg	1.8E+02	2.4E+02 (N)	3.9E+02	2.4E+02	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	1.4E+02	1.9E+02 (N)	3.3E+02	1.9E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	7.9E+01	9.4E+01 (N)	1.3E+02 J	9.4E+01	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	2.3E-01	3.4E-01 (N)	5.6E-01	3.4E-01	mg/kg	95% UCL - N	(d)
	Nickel	mg/kg	1.9E+01	2.8E+01 (G)	4.9E+01	2.8E+01	mg/kg	95% UCL - G	(h)
	Thallium	mg/kg	3.2E+00	4.1E+00 (N)	6.1E+00	4.1E+00	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	5.3E+01	7.2E+01 (N)	1.0E+02	7.2E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	1.4E+03	2.1E+03 (N)	3.8E+03 J	2.1E+03	mg/kg	95% UCL - N	(d)
	Chromium VI	mg/kg	3.6E-01	6.5E-01 (G)	1.3E+00 J	6.5E-01	mg/kg	95% UCL - G	(h)
Station CB-07									
	Arsenic	mg/kg	9.1E+01	2.1E+02 (N)	2.3E+02 J	2.1E+02	mg/kg	95% UCL - N	(d)
	Barium	mg/kg	3.2E+01	5.6E+01 (N)	5.7E+01	5.6E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	2.0E+00	4.9E+00 (N)	5.6E+00	4.9E+00	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	3.3E+02	7.1E+02 (N)	7.8E+02	7.1E+02	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	1.6E+02	8.7E+02 (G)	4.4E+02	4.4E+02	mg/kg	Max	(g)
	Lead	mg/kg	1.5E+02	3.4E+02 (N)	3.8E+02	3.4E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	3.3E+02	6.7E+02 (N)	6.5E+02 J	6.5E+02	mg/kg	Max	(g)
	Mercury	mg/kg	5.6E-01	1.3E+00 (N)	1.4E+00	1.3E+00	mg/kg	95% UCL - N	(d)
	Nickel	mg/kg	1.4E+01	2.2E+01 (N)	2.3E+01	2.2E+01	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	4.7E+01	9.2E+01 (N)	1.0E+02	9.2E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	3.0E+02	6.2E+02 (N)	6.7E+02 J	6.2E+02	mg/kg	95% UCL - N	(d)

TABLE 3-3.2.RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station 16/TT-33									
	Benzo(a)anthracene	mg/kg	2.4E-01	3.9E-01 (N)	1.1E-01 J	1.1E-01	mg/kg	Max	(g)
	Benzo(a)pyrene	mg/kg	2.5E-01	3.9E-01 (N)	1.4E-01 J	1.4E-01	mg/kg	Max	(g)
	Benzo(b)fluoranthene	mg/kg	2.3E-01	4.2E-01 (N)	2.6E-01	2.6E-01	mg/kg	Max	(g)
	Benzo(k)fluoranthene	mg/kg	1.9E-01	3.9E-01 (N)	9.9E-02 J	9.9E-02	mg/kg	Max	(g)
	Indeno(1,2,3-cd)pyrene	mg/kg	2.3E-01	4.0E-01 (N)	6.0E-02 J	6.0E-02	mg/kg	Max	(g)
	Phenanthrene	mg/kg	2.4E-01	3.9E-01 (N)	1.3E-01 J	1.3E-01	mg/kg	Max	(g)
	Antimony	mg/kg	3.4E+00	5.9E+00 (N)	9.1E+00 J	5.9E+00	mg/kg	95% UCL - N	(d)
	Arsenic	mg/kg	1.4E+02	2.4E+02 (N)	2.9E+02 J	2.4E+02	mg/kg	95% UCL - N	(d)
	Barium	mg/kg	4.2E+01	6.2E+01 (N)	7.8E+01	6.2E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	3.3E+00	5.6E+00 (N)	7.4E+00 J	5.6E+00	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	5.7E+02	4.2E+03 (G)	2.2E+03 J	2.2E+03	mg/kg	Max	(g)
	Copper	mg/kg	2.4E+02	4.0E+02 (N)	4.9E+02 J	4.0E+02	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	1.2E+02	2.0E+02 (N)	2.9E+02 J	2.0E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	3.9E+02	8.8E+02 (G)	7.8E+02	7.8E+02	mg/kg	Max	(g)
	Mercury	mg/kg	1.9E+00	3.4E+00 (N)	5.6E+00 J	3.4E+00	mg/kg	95% UCL - N	(d)
	Nickel	mg/kg	1.0E+01	1.5E+01 (N)	2.2E+01	1.5E+01	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	2.0E+01	3.1E+01 (N)	4.2E+01	3.1E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	5.8E+02	9.3E+02 (N)	1.1E+03 J	9.3E+02	mg/kg	95% UCL - N	(d)
	Chromium VI	mg/kg	7.4E-01	5.4E+00 (G)	2.9E+00 J	2.9E+00	mg/kg	Max	(g)

TABLE 3-3.2 RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station 09									
	Benzo(a)anthracene	mg/kg	2.1E-01	4.8E-01 (T)	1.0E+00	4.8E-01	mg/kg	95% UCL - T	(e)
	Benzo(a)pyrene	mg/kg	2.1E-01	5.0E-01 (T)	1.1E+00	5.0E-01	mg/kg	95% UCL - T	(e)
	Benzo(b)fluoranthene	mg/kg	4.0E-01	1.3E+00 (NP)	2.3E+00	1.3E+00	mg/kg	95% UCL - NP	(f)
	Benzo(k)fluoranthene	mg/kg	3.6E-01	1.2E+00 (NP)	2.1E+00	1.2E+00	mg/kg	95% UCL - NP	(f)
	Dibenz(a,h)anthracene	mg/kg	2.1E-01	2.3E-01 (NP)	8.0E-02 J	8.0E-02	mg/kg	Max	(g)
	Indeno(1,2,3-cd)pyrene	mg/kg	1.9E-01	2.5E-01 (N)	3.7E-01 J	2.5E-01	mg/kg	95% UCL - N	(d)
	Phenanthrene	mg/kg	3.1E-01	2.1E+00 (NP)	1.9E+00	1.9E+00	mg/kg	Max	(g)
	Antimony	mg/kg	8.1E-01	1.0E+00 (N)	1.3E+00	1.0E+00	mg/kg	95% UCL - N	(d)
	Arsenic	mg/kg	2.9E+01	3.5E+01 (N)	4.9E+01 J	3.5E+01	mg/kg	95% UCL - N	(d)
	Barium	mg/kg	2.1E+01	3.3E+01 (G)	7.4E+01	3.3E+01	mg/kg	95% UCL - G	(h)
	Cadmium	mg/kg	4.9E-01	6.8E-01 (G)	1.2E+00 J	6.8E-01	mg/kg	95% UCL - G	(h)
	Chromium	mg/kg	4.5E+01	5.9E+01 (N)	9.2E+01 J	5.9E+01	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	4.7E+01	6.3E+01 (N)	1.0E+02 J	6.3E+01	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	3.0E+01	4.4E+01 (N)	8.7E+01	4.4E+01	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	3.6E+02	2.9E+03 (NP)	2.6E+03 J	2.6E+03	mg/kg	Max	(g)
	Mercury	mg/kg	2.6E-01	3.9E-01 (N)	6.8E-01 J	3.9E-01	mg/kg	95% UCL - N	(d)
	Nickel	mg/kg	8.0E+00	9.7E+00 (G)	1.3E+01	9.7E+00	mg/kg	95% UCL - G	(h)
	Thallium	mg/kg	9.2E-01	1.3E+00 (N)	2.4E+00	1.3E+00	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	1.1E+01	1.4E+01 (N)	1.9E+01	1.4E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	1.6E+02	2.4E+02 (G)	4.8E+02 J	2.4E+02	mg/kg	95% UCL - G	(h)
Station AM									
	Antimony	mg/kg	2.0E+00	N/A (<4)	2.0E+00 J	2.0E+00	mg/kg	Max	(a)
	Arsenic	mg/kg	1.2E+02	N/A (<4)	1.2E+02	1.2E+02	mg/kg	Max	(a)
	Barium	mg/kg	5.8E+01	N/A (<4)	5.8E+01	5.8E+01	mg/kg	Max	(a)
	Cadmium	mg/kg	3.9E+00	N/A (<4)	3.9E+00	3.9E+00	mg/kg	Max	(a)
	Chromium	mg/kg	3.2E+02	N/A (<4)	3.2E+02	3.2E+02	mg/kg	Max	(a)
	Copper	mg/kg	2.0E+02	N/A (<4)	2.0E+02	2.0E+02	mg/kg	Max	(a)
	Lead	mg/kg	1.5E+02	N/A (<4)	1.5E+02	1.5E+02	mg/kg	Max	(a)
	Manganese	mg/kg	1.1E+03	N/A (<4)	1.1E+03 J	1.1E+03	mg/kg	Max	(a)
	Mercury	mg/kg	1.9E+00	N/A (<4)	1.9E+00	1.9E+00	mg/kg	Max	(a)
	Nickel	mg/kg	1.8E+01	N/A (<4)	1.8E+01 J	1.8E+01	mg/kg	Max	(a)
	Thallium	mg/kg	4.4E-01	N/A (<4)	4.4E-01 J	4.4E-01	mg/kg	Max	(a)
	Vanadium	mg/kg	2.7E+01	N/A (<4)	2.7E+01	2.7E+01	mg/kg	Max	(a)
	Zinc	mg/kg	9.4E+02	N/A (<4)	9.4E+02	9.4E+02	mg/kg	Max	(a)

TABLE 3-3.2.RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station KF									
	Arsenic	mg/kg	3.8E+01	5.2E+01 (N)	9.0E+01	5.2E+01	mg/kg	95% UCL - N	(d)
	Barium	mg/kg	3.3E+01	4.1E+01 (N)	5.5E+01	4.1E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	5.6E-01	1.0E+00 (G)	1.1E+00	1.0E+00	mg/kg	95% UCL - G	(h)
	Chromium	mg/kg	6.7E+01	8.8E+01 (N)	1.1E+02	8.8E+01	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	7.9E+01	1.1E+02 (N)	1.9E+02	1.1E+02	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	9.7E+01	1.3E+02 (N)	1.9E+02	1.3E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	2.9E+02	3.6E+02 (N)	5.0E+02	3.6E+02	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	5.1E-01	8.9E-01 (G)	1.6E+00 J	8.9E-01	mg/kg	95% UCL - G	(h)
	Nickel	mg/kg	6.7E+00	9.0E+00 (N)	1.3E+01	9.0E+00	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	1.9E+01	2.3E+01 (N)	3.0E+01	2.3E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	2.8E+02	3.5E+02 (N)	4.6E+02	3.5E+02	mg/kg	95% UCL - N	(d)
Station 08									
	Benzo(a)anthracene	mg/kg	4.8E-01	N/A (<4)	6.8E-01	6.8E-01	mg/kg	Max	(a)
	Benzo(a)pyrene	mg/kg	6.3E-01	N/A (<4)	9.4E-01	9.4E-01	mg/kg	Max	(a)
	Benzo(b)fluoranthene	mg/kg	1.3E+00	N/A (<4)	1.9E+00	1.9E+00	mg/kg	Max	(a)
	Benzo(k)fluoranthene	mg/kg	1.4E+00	N/A (<4)	2.0E+00	2.0E+00	mg/kg	Max	(a)
	Dibenz(a,h)anthracene	mg/kg	9.3E-02	N/A (<4)	1.6E-01 J	1.6E-01	mg/kg	Max	(a)
	Indeno(1,2,3-cd)pyrene	mg/kg	4.0E-01	N/A (<4)	6.8E-01	6.8E-01	mg/kg	Max	(a)
	Phenanthrene	mg/kg	4.8E-01	N/A (<4)	6.1E-01	6.1E-01	mg/kg	Max	(a)
	Antimony	mg/kg	1.0E+00	N/A (<4)	1.6E+00	1.6E+00	mg/kg	Max	(a)
	Arsenic	mg/kg	1.9E+01	N/A (<4)	2.9E+01 J	2.9E+01	mg/kg	Max	(a)
	Barium	mg/kg	1.9E+01	N/A (<4)	2.1E+01	2.1E+01	mg/kg	Max	(a)
	Chromium	mg/kg	5.4E+01	N/A (<4)	1.2E+02 J	1.2E+02	mg/kg	Max	(a)
	Copper	mg/kg	7.4E+01	N/A (<4)	1.3E+02 J	1.3E+02	mg/kg	Max	(a)
	Lead	mg/kg	4.3E+01	N/A (<4)	7.1E+01	7.1E+01	mg/kg	Max	(a)
	Manganese	mg/kg	1.6E+02	N/A (<4)	2.3E+02 J	2.3E+02	mg/kg	Max	(a)
	Mercury	mg/kg	4.6E-01	N/A (<4)	1.0E+00 J	1.0E+00	mg/kg	Max	(a)
	Nickel	mg/kg	1.2E+01	N/A (<4)	2.0E+01	2.0E+01	mg/kg	Max	(a)
	Thallium	mg/kg	1.4E+00	N/A (<4)	1.7E+00	1.7E+00	mg/kg	Max	(a)
	Vanadium	mg/kg	1.5E+01	N/A (<4)	1.8E+01	1.8E+01	mg/kg	Max	(a)
	Zinc	mg/kg	3.5E+02	N/A (<4)	5.4E+02 J	5.4E+02	mg/kg	Max	(a)

TABLE 3-3.2 RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station 07/DP									
	Trichloroethene	mg/kg	1.5E-02	2.2E-02 (G)	3.5E-02 J	2.2E-02	mg/kg	95% UCL - G	(h)
	Benzo(a)anthracene	mg/kg	3.8E+00	5.6E+00 (N)	9.6E+00	5.6E+00	mg/kg	95% UCL - N	(d)
	Benzo(a)pyrene	mg/kg	3.8E+00	5.5E+00 (N)	1.0E+01	5.5E+00	mg/kg	95% UCL - N	(d)
	Benzo(b)fluoranthene	mg/kg	6.6E+00	9.5E+00 (N)	1.6E+01 J	9.5E+00	mg/kg	95% UCL - N	(d)
	Benzo(k)fluoranthene	mg/kg	5.0E+00	9.2E+00 (G)	1.4E+01 J	9.2E+00	mg/kg	95% UCL - G	(h)
	Dibenz(a,h)anthracene	mg/kg	5.5E-01	1.1E+00 (G)	2.0E+00	1.1E+00	mg/kg	95% UCL - G	(h)
	Indeno(1,2,3-cd)pyrene	mg/kg	1.9E+00	3.9E+00 (G)	6.9E+00	3.9E+00	mg/kg	95% UCL - G	(h)
	Phenanthrene	mg/kg	3.7E+00	6.8E+00 (G)	1.2E+01	6.8E+00	mg/kg	95% UCL - G	(h)
	Aroclor 1260	mg/kg	5.1E-02	6.6E-02 (N)	7.4E-02	6.6E-02	mg/kg	95% UCL - N	(d)
	Antimony	mg/kg	1.9E+00	2.3E+00 (N)	3.1E+00	2.3E+00	mg/kg	95% UCL - N	(d)
	Arsenic	mg/kg	5.7E+01	8.0E+01 (N)	1.3E+02 J	8.0E+01	mg/kg	95% UCL - N	(d)
	Barium	mg/kg	6.4E+01	8.4E+01 (N)	1.2E+02	8.4E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	3.3E+00	5.1E+00 (N)	1.0E+01	5.1E+00	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	1.8E+02	2.5E+02 (N)	4.4E+02 J	2.5E+02	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	1.6E+02	2.3E+02 (N)	3.8E+02 J	2.3E+02	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	2.5E+02	3.5E+02 (N)	4.8E+02	3.5E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	3.2E+02	4.2E+02 (N)	6.0E+02 J	4.2E+02	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	1.4E+00	2.6E+00 (G)	5.7E+00 J	2.6E+00	mg/kg	95% UCL - G	(h)
	Nickel	mg/kg	2.2E+01	2.7E+01 (N)	3.8E+01	2.7E+01	mg/kg	95% UCL - N	(d)
	Thallium	mg/kg	1.6E+00	2.2E+00 (N)	3.8E+00	2.2E+00	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	4.0E+01	5.2E+01 (N)	7.9E+01	5.2E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	9.3E+02	1.3E+03 (N)	2.5E+03 J	1.3E+03	mg/kg	95% UCL - N	(d)

TABLE 3-3.2.RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station LP									
	Antimony	mg/kg	1.3E+00	1.9E+00 (NP)	5.1E+00 J	1.9E+00	mg/kg	95% UCL - NP	(f)
	Arsenic	mg/kg	7.1E+01	1.5E+02 (G)	4.9E+02 J	1.5E+02	mg/kg	95% UCL - G	(h)
	Barium	mg/kg	3.2E+01	4.1E+01 (N)	6.9E+01	4.1E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	2.0E+00	2.9E+00 (N)	5.6E+00 J	2.9E+00	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	5.4E+01	8.7E+01 (G)	1.3E+02	8.7E+01	mg/kg	95% UCL - G	(h)
	Copper	mg/kg	2.0E+02	4.8E+02 (G)	1.6E+03 J	4.8E+02	mg/kg	95% UCL - G	(h)
	Lead	mg/kg	8.2E+01	1.6E+02 (G)	4.0E+02 J	1.6E+02	mg/kg	95% UCL - G	(h)
	Manganese	mg/kg	1.7E+02	2.1E+02 (N)	3.3E+02	2.1E+02	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	4.6E-01	8.1E-01 (G)	1.4E+00	8.1E-01	mg/kg	95% UCL - G	(h)
	Nickel	mg/kg	1.0E+01	1.4E+01 (N)	3.1E+01	1.4E+01	mg/kg	95% UCL - N	(d)
	Thallium	mg/kg	1.5E+00	2.0E+00 (G)	2.9E+00 J	2.0E+00	mg/kg	95% UCL - G	(h)
	Vanadium	mg/kg	1.8E+01	2.3E+01 (N)	4.0E+01	2.3E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	7.8E+02	1.7E+03 (G)	2.8E+03	1.7E+03	mg/kg	95% UCL - G	(h)
Station AS									
	Antimony	mg/kg	2.5E+00	N/A (<4)	2.9E+00 J	2.9E+00	mg/kg	Max	(a)
	Arsenic	mg/kg	1.2E+02	N/A (<4)	1.2E+02	1.2E+02	mg/kg	Max	(a)
	Barium	mg/kg	1.0E+02	N/A (<4)	1.1E+02	1.1E+02	mg/kg	Max	(a)
	Cadmium	mg/kg	1.2E+01	N/A (<4)	1.3E+01	1.3E+01	mg/kg	Max	(a)
	Chromium	mg/kg	7.5E+02	N/A (<4)	9.2E+02	9.2E+02	mg/kg	Max	(a)
	Copper	mg/kg	5.1E+02	N/A (<4)	5.8E+02	5.8E+02	mg/kg	Max	(a)
	Lead	mg/kg	5.7E+02	N/A (<4)	6.6E+02	6.6E+02	mg/kg	Max	(a)
	Manganese	mg/kg	3.8E+02	N/A (<4)	3.8E+02 J	3.8E+02	mg/kg	Max	(a)
	Mercury	mg/kg	3.1E+00	N/A (<4)	3.1E+00	3.1E+00	mg/kg	Max	(a)
	Nickel	mg/kg	3.7E+01	N/A (<4)	3.9E+01 J	3.9E+01	mg/kg	Max	(a)
	Thallium	mg/kg	1.1E+00	N/A (<4)	1.2E+00 J	1.2E+00	mg/kg	Max	(a)
	Vanadium	mg/kg	6.6E+01	N/A (<4)	7.3E+01	7.3E+01	mg/kg	Max	(a)
	Zinc	mg/kg	2.2E+03	N/A (<4)	2.3E+03	2.3E+03	mg/kg	Max	(a)

TABLE 3-3.2.RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station 05									
	Benzo(a)anthracene	mg/kg	4.3E-01	N/A (<4)	2.3E+00 J	2.3E+00	mg/kg	Max	(a)
	Benzo(a)pyrene	mg/kg	3.5E-01	N/A (<4)	2.5E+00 J	2.5E+00	mg/kg	Max	(a)
	Benzo(b)fluoranthene	mg/kg	3.5E-01	N/A (<4)	3.0E+00 J	3.0E+00	mg/kg	Max	(a)
	Benzo(k)fluoranthene	mg/kg	2.5E-01	N/A (<4)	1.9E+00 J	1.9E+00	mg/kg	Max	(a)
	Indeno(1,2,3-cd)pyrene	mg/kg	1.7E-01	N/A (<4)	1.2E+00 J	1.2E+00	mg/kg	Max	(a)
	Phenanthrene	mg/kg	6.8E-01	N/A (<4)	2.2E+00 J	2.2E+00	mg/kg	Max	(a)
	Antimony	mg/kg	9.4E-01	N/A (<4)	1.8E+00 J	1.8E+00	mg/kg	Max	(a)
	Arsenic	mg/kg	8.3E+00	N/A (<4)	2.5E+01	2.5E+01	mg/kg	Max	(a)
	Barium	mg/kg	3.5E+01	N/A (<4)	4.3E+01	4.3E+01	mg/kg	Max	(a)
	Cadmium	mg/kg	2.2E-01	N/A (<4)	1.6E+00	1.6E+00	mg/kg	Max	(a)
	Chromium	mg/kg	3.4E+01	N/A (<4)	1.5E+02	1.5E+02	mg/kg	Max	(a)
	Copper	mg/kg	2.5E+01	N/A (<4)	8.0E+01	8.0E+01	mg/kg	Max	(a)
	Lead	mg/kg	2.7E+02	N/A (<4)	1.5E+02	1.5E+02	mg/kg	Max	(a)
	Manganese	mg/kg	4.2E+02	N/A (<4)	9.5E+02	9.5E+02	mg/kg	Max	(a)
	Mercury	mg/kg	9.0E-02	N/A (<4)	1.2E+00 J	1.2E+00	mg/kg	Max	(a)
	Nickel	mg/kg	1.0E+01	N/A (<4)	1.1E+01	1.1E+01	mg/kg	Max	(a)
	Thallium	mg/kg	6.1E-01	N/A (<4)	9.7E-01	9.7E-01	mg/kg	Max	(a)
	Vanadium	mg/kg	1.9E+01	N/A (<4)	1.9E+01	1.9E+01	mg/kg	Max	(a)
	Zinc	mg/kg	1.2E+02	N/A (<4)	5.7E+02	5.7E+02	mg/kg	Max	(a)

TABLE 3-3.2.RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station 03									
	Benzo(a)anthracene	mg/kg	5.7E-01	N/A (<4)	1.3E+00	1.3E+00	mg/kg	Max	(a)
	Benzo(a)pyrene	mg/kg	4.7E-01	N/A (<4)	1.0E+00	1.0E+00	mg/kg	Max	(a)
	Benzo(b)fluoranthene	mg/kg	6.0E-01	N/A (<4)	1.4E+00	1.4E+00	mg/kg	Max	(a)
	Benzo(k)fluoranthene	mg/kg	3.5E-01	N/A (<4)	6.4E-01	6.4E-01	mg/kg	Max	(a)
	Dibenz(a,h)anthracene	mg/kg	1.7E-01	N/A (<4)	1.1E-01	1.1E-01	mg/kg	Max	(a)
	Indeno(1,2,3-cd)pyrene	mg/kg	3.4E-01	N/A (<4)	6.2E-01	6.2E-01	mg/kg	Max	(a)
	Phenanthrene	mg/kg	4.7E-01	N/A (<4)	1.0E+00	1.0E+00	mg/kg	Max	(a)
	Aroclor 1260	mg/kg	5.0E-02	N/A (<4)	1.1E-01	1.1E-01	mg/kg	Max	(a)
	Antimony	mg/kg	8.0E-01	N/A (<4)	1.7E+00 J	1.7E+00	mg/kg	Max	(a)
	Arsenic	mg/kg	3.3E+01	N/A (<4)	8.7E+01	8.7E+01	mg/kg	Max	(a)
	Barium	mg/kg	3.5E+01	N/A (<4)	8.5E+01	8.5E+01	mg/kg	Max	(a)
	Cadmium	mg/kg	1.7E+00	N/A (<4)	5.2E+00	5.2E+00	mg/kg	Max	(a)
	Chromium	mg/kg	7.3E+01	N/A (<4)	2.0E+02 J	2.0E+02	mg/kg	Max	(a)
	Copper	mg/kg	6.2E+01	N/A (<4)	1.7E+02	1.7E+02	mg/kg	Max	(a)
	Lead	mg/kg	1.2E+02	N/A (<4)	3.5E+02 J	3.5E+02	mg/kg	Max	(a)
	Manganese	mg/kg	2.1E+02	N/A (<4)	5.0E+02	5.0E+02	mg/kg	Max	(a)
	Mercury	mg/kg	2.6E-01	N/A (<4)	7.1E-01	7.1E-01	mg/kg	Max	(a)
	Nickel	mg/kg	1.2E+01	N/A (<4)	2.7E+01 J	2.7E+01	mg/kg	Max	(a)
	Vanadium	mg/kg	2.2E+01	N/A (<4)	4.9E+01	4.9E+01	mg/kg	Max	(a)
	Zinc	mg/kg	5.2E+02	N/A (<4)	1.4E+03 J	1.4E+03	mg/kg	Max	(a)

TABLE 3-3.2.RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station 01									
	Benzo(a)anthracene	mg/kg	1.9E-01	2.5E-01 (N)	2.5E-01 J	2.5E-01	mg/kg	Max	(g)
	Benzo(a)pyrene	mg/kg	1.7E-01	2.4E-01 (NP)	2.1E-01 J	2.1E-01	mg/kg	Max	(g)
	Benzo(b)fluoranthene	mg/kg	1.7E-01	2.2E-01 (N)	1.7E-01 J	1.7E-01	mg/kg	Max	(g)
	Benzo(k)fluoranthene	mg/kg	1.8E-01	2.4E-01 (NP)	2.1E-01 J	2.1E-01	mg/kg	Max	(g)
	Indeno(1,2,3-cd)pyrene	mg/kg	1.8E-01	2.2E-01 (N)	1.2E-01 J	1.2E-01	mg/kg	Max	(g)
	Phenanthrene	mg/kg	3.0E-01	4.6E-01 (N)	5.0E-01 J	4.6E-01	mg/kg	95% UCL - N	(d)
	Antimony	mg/kg	4.9E-01	8.8E-01 (N)	9.4E-01 J	8.8E-01	mg/kg	95% UCL - N	(d)
	Arsenic	mg/kg	4.6E+00	6.2E+00 (N)	6.2E+00	6.2E+00	mg/kg	95% UCL - N	(d)
	Barium	mg/kg	1.1E+01	1.2E+01 (N)	1.3E+01	1.2E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	7.8E-02	1.7E-01 (N)	1.8E-01	1.7E-01	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	8.3E+00	1.0E+01 (N)	9.8E+00	9.8E+00	mg/kg	Max	(g)
	Copper	mg/kg	1.2E+01	1.7E+01 (N)	1.7E+01	1.7E+01	mg/kg	Max	(g)
	Lead	mg/kg	1.9E+01	3.6E+01 (N)	4.0E+01 J	3.6E+01	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	8.2E+01	1.0E+02 (N)	1.0E+02	1.0E+02	mg/kg	Max	(g)
	Nickel	mg/kg	6.4E+00	7.6E+00 (N)	7.2E+00	7.2E+00	mg/kg	Max	(g)
	Thallium	mg/kg	4.0E-01	5.2E-01 (N)	5.4E-01	5.2E-01	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	9.6E+00	1.2E+01 (N)	1.2E+01	1.2E+01	mg/kg	Max	(g)
	Zinc	mg/kg	1.0E+02	1.6E+02 (N)	1.5E+02	1.5E+02	mg/kg	Max	(g)

(1) Refer to Appendix C.1 for station sample groupings; only COPCs selected on Table 3-2.2 and detected at each station 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.

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 3-3.2.CT

EXPOSURE POINT CONCENTRATION SUMMARY

CENTRAL TENDENCY EXPOSURE

WELLS G&H SUPERFUND SITE OU3

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)
Station NR									
	Arsenic	mg/kg	1.7E+02	2.1E+02 (N)	2.2E+02	2.1E+02	mg/kg	95% UCL - N	(d)
	Barium	mg/kg	4.1E+01	5.6E+01 (N)	6.6E+01	5.6E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	1.3E+00	2.2E+00 (N)	2.7E+00	2.2E+00	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	1.9E+02	2.5E+02 (N)	2.6E+02	2.5E+02	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	2.0E+02	3.0E+02 (N)	3.7E+02	3.0E+02	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	1.6E+02	2.2E+02 (N)	2.5E+02	2.2E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	1.6E+02	2.5E+02 (N)	3.2E+02	2.5E+02	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	2.6E+00	4.5E+00 (N)	5.9E+00	4.5E+00	mg/kg	95% UCL - N	(d)
	Nickel	mg/kg	1.1E+01	1.4E+01 (N)	1.6E+01	1.4E+01	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	2.4E+01	3.1E+01 (N)	3.3E+01	3.1E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	3.4E+02	4.9E+02 (N)	6.0E+02 J	4.9E+02	mg/kg	95% UCL - N	(d)
Station 14									
	Benzo(a)anthracene	mg/kg	9.7E-01	N/A (<4)	1.1E+00 J	9.7E-01	mg/kg	Mean	(b)
	Benzo(a)pyrene	mg/kg	1.0E+00	N/A (<4)	8.9E-01 J	8.9E-01	mg/kg	Max	(c)
	Benzo(b)fluoranthene	mg/kg	1.4E+00	N/A (<4)	2.1E+00 J	1.4E+00	mg/kg	Mean	(b)
	Benzo(k)fluoranthene	mg/kg	1.1E+00	N/A (<4)	1.1E+00 J	1.1E+00	mg/kg	Max	(c)
	Phenanthrene	mg/kg	1.5E+00	N/A (<4)	2.6E+00 J	1.5E+00	mg/kg	Mean	(b)
	Antimony	mg/kg	9.1E-01	N/A (<4)	9.9E-01 J	9.1E-01	mg/kg	Mean	(b)
	Arsenic	mg/kg	6.1E+01	N/A (<4)	7.3E+01	6.1E+01	mg/kg	Mean	(b)
	Barium	mg/kg	1.6E+01	N/A (<4)	1.8E+01	1.6E+01	mg/kg	Mean	(b)
	Cadmium	mg/kg	6.4E-01	N/A (<4)	1.0E+00	6.4E-01	mg/kg	Mean	(b)
	Chromium	mg/kg	1.0E+02	N/A (<4)	2.2E+02	1.0E+02	mg/kg	Mean	(b)
	Copper	mg/kg	5.7E+01	N/A (<4)	6.5E+01	5.7E+01	mg/kg	Mean	(b)
	Lead	mg/kg	6.8E+01	N/A (<4)	1.3E+02 J	6.8E+01	mg/kg	Mean	(b)
	Manganese	mg/kg	1.3E+02	N/A (<4)	1.7E+02 J	1.3E+02	mg/kg	Mean	(b)
	Mercury	mg/kg	5.9E-01	N/A (<4)	1.4E+00 J	5.9E-01	mg/kg	Mean	(b)
	Nickel	mg/kg	7.3E+00	N/A (<4)	1.0E+01	7.3E+00	mg/kg	Mean	(b)
	Thallium	mg/kg	4.9E-01	N/A (<4)	8.1E-01	4.9E-01	mg/kg	Mean	(b)
	Vanadium	mg/kg	1.1E+01	N/A (<4)	1.3E+01	1.1E+01	mg/kg	Mean	(b)
	Zinc	mg/kg	2.2E+02	N/A (<4)	2.7E+02	2.2E+02	mg/kg	Mean	(b)

TABLE 3-3.2.CT
EXPOSURE POINT CONCENTRATION SUMMARY
CENTRAL TENDENCY EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station 22/TT-22									
	Tetrachloroethene	mg/kg	1.1E+00	2.8E+00 (N)	3.2E+00	2.8E+00	mg/kg	95% UCL - N	(d)
	Trichloroethene	mg/kg	2.6E-01	7.0E-01 (N)	8.0E-01	7.0E-01	mg/kg	95% UCL - N	(d)
	Benzo(a)anthracene	mg/kg	3.4E-01	N/A (<4)	3.0E-01	3.0E-01	mg/kg	Max	(c)
	Benzo(a)pyrene	mg/kg	3.2E-01	N/A (<4)	2.0E-01	2.0E-01	mg/kg	Max	(c)
	Benzo(b)fluoranthene	mg/kg	3.9E-01	4.9E-01 (NP)	4.4E-01	3.9E-01	mg/kg	Mean	(b)
	Benzo(k)fluoranthene	mg/kg	4.2E-01	N/A (<4)	5.4E-01 J	4.2E-01	mg/kg	Mean	(b)
	Dibenz(a,h)anthracene	mg/kg	2.5E-01	N/A (<4)	4.4E-02 J	4.4E-02	mg/kg	Max	(c)
	Indeno(1,2,3-cd)pyrene	mg/kg	3.1E-01	N/A (<4)	2.2E-01	2.2E-01	mg/kg	Max	(c)
	Phenanthrene	mg/kg	4.0E-01	N/A (<4)	4.9E-01	4.0E-01	mg/kg	Mean	(b)
	Aroclor 1260	mg/kg	3.2E-02	N/A (<4)	2.9E-02	2.9E-02	mg/kg	Max	(c)
	Antimony	mg/kg	7.0E+01	9.2E+02 (G)	3.3E+02 J	7.0E+01	mg/kg	Mean	(b)
	Arsenic	mg/kg	2.1E+01	7.7E+01 (G)	8.7E+01 J	7.7E+01	mg/kg	95% UCL - G	(h)
	Barium	mg/kg	4.1E+01	4.9E+01 (NP)	5.1E+01 J	4.9E+01	mg/kg	95% UCL - NP	(f)
	Cadmium	mg/kg	1.0E+00	1.4E+00 (N)	1.7E+00 J	1.4E+00	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	2.5E+01	6.5E+01 (T)	8.5E+01 J	6.5E+01	mg/kg	95% UCL - T	(e)
	Copper	mg/kg	2.3E+01	2.9E+01 (N)	3.8E+01 J	2.9E+01	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	6.8E+03	3.3E+04 (T)	4.1E+04 J	3.3E+04	mg/kg	95% UCL - T	(e)
	Manganese	mg/kg	7.1E+01	1.2E+02 (G)	1.9E+02 J	1.2E+02	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	1.5E-01	4.6E-01 (G)	5.0E-01	4.6E-01	mg/kg	95% UCL - G	(h)
	Nickel	mg/kg	7.8E+00	1.1E+01 (G)	1.8E+01	1.1E+01	mg/kg	95% UCL - G	(h)
	Vanadium	mg/kg	3.1E+01	4.1E+01 (N)	5.0E+01	4.1E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	7.0E+01	9.6E+01 (N)	1.2E+02 J	9.6E+01	mg/kg	95% UCL - N	(d)

TABLE 3-3.2.CT
EXPOSURE POINT CONCENTRATION SUMMARY
CENTRAL TENDENCY EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station WH									
	Trichloroethene	mg/kg	5.3E-02	N/A (<4)	5.3E-02 J	5.3E-02	mg/kg	Max	(c)
	Benzo(a)anthracene	mg/kg	4.3E-01	N/A (<4)	5.6E-01 J	4.3E-01	mg/kg	Mean	(b)
	Benzo(a)pyrene	mg/kg	1.0E+00	N/A (<4)	1.0E+00 J	1.0E+00	mg/kg	Max	(c)
	Benzo(b)fluoranthene	mg/kg	9.0E-01	N/A (<4)	1.5E+00 J	9.0E-01	mg/kg	Mean	(b)
	Benzo(k)fluoranthene	mg/kg	6.9E-01	N/A (<4)	7.2E-01 J	6.9E-01	mg/kg	Mean	(b)
	Dibenz(a,h)anthracene	mg/kg	3.1E-01	N/A (<4)	3.2E-01 J	3.1E-01	mg/kg	Mean	(b)
	Indeno(1,2,3-cd)pyrene	mg/kg	5.2E-01	N/A (<4)	7.4E-01 J	5.2E-01	mg/kg	Mean	(b)
	Phenanthrene	mg/kg	4.4E-01	N/A (<4)	5.7E-01 J	4.4E-01	mg/kg	Mean	(b)
	Aroclor 1260	mg/kg	4.1E-02	N/A (<4)	5.8E-02	4.1E-02	mg/kg	Mean	(b)
	Antimony	mg/kg	2.6E+01	3.5E+01 (G)	6.8E+01 J	3.5E+01	mg/kg	95% UCL - G	(h)
	Arsenic	mg/kg	3.7E+02	1.9E+03 (T)	3.2E+03	1.9E+03	mg/kg	95% UCL - T	(e)
	Barium	mg/kg	8.1E+01	9.3E+01 (N)	1.3E+02	9.3E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	6.4E+00	1.1E+01 (G)	1.5E+01 J	1.1E+01	mg/kg	95% UCL - G	(h)
	Chromium	mg/kg	4.9E+02	1.2E+03 (G)	2.1E+03	1.2E+03	mg/kg	95% UCL - G	(h)
	Copper	mg/kg	4.0E+02	1.2E+03 (T)	2.1E+03	1.2E+03	mg/kg	95% UCL - T	(e)
	Lead	mg/kg	1.5E+03	1.8E+03 (N)	2.5E+03	1.8E+03	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	2.9E+02	5.1E+02 (G)	7.8E+02	5.1E+02	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	3.0E+00	2.7E+01 (NP)	2.8E+01	2.7E+01	mg/kg	95% UCL - NP	(f)
	Nickel	mg/kg	2.4E+01	4.1E+01 (NP)	4.4E+01	4.1E+01	mg/kg	95% UCL - NP	(f)
	Thallium	mg/kg	5.6E-01	7.7E-01 (N)	1.5E+00	7.7E-01	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	7.8E+01	9.8E+01 (N)	1.6E+02	9.8E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	1.1E+03	2.3E+03 (G)	3.2E+03	2.3E+03	mg/kg	95% UCL - G	(h)
	Chromium VI	mg/kg	6.4E-01	1.5E+00 (G)	2.8E+00 J	1.5E+00	mg/kg	95% UCL - G	(h)

TABLE 3-3 2.CT
EXPOSURE POINT CONCENTRATION SUMMARY
CENTRAL TENDENCY EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station WG									
	Trichloroethene	mg/kg	4.2E-02	N/A (<4)	4.2E-02 J	4.2E-02	mg/kg	Max	(c)
	Benzo(a)anthracene	mg/kg	1.3E-01	N/A (<4)	1.3E-01 J	1.3E-01	mg/kg	Max	(c)
	Benzo(a)pyrene	mg/kg	1.6E-01	N/A (<4)	1.6E-01 J	1.6E-01	mg/kg	Max	(c)
	Benzo(b)fluoranthene	mg/kg	2.9E-01	N/A (<4)	2.9E-01 J	2.9E-01	mg/kg	Max	(c)
	Benzo(k)fluoranthene	mg/kg	2.0E-01	N/A (<4)	2.0E-01 J	2.0E-01	mg/kg	Max	(c)
	Dibenz(a,h)anthracene	mg/kg	4.6E-02	N/A (<4)	4.6E-02 J	4.6E-02	mg/kg	Max	(c)
	Indeno(1,2,3-cd)pyrene	mg/kg	1.4E-01	N/A (<4)	1.4E-01 J	1.4E-01	mg/kg	Max	(c)
	Phenanthrene	mg/kg	1.6E-01	N/A (<4)	1.6E-01 J	1.6E-01	mg/kg	Max	(c)
	Aroclor 1260	mg/kg	1.1E-02	N/A (<4)	1.1E-02	1.1E-02	mg/kg	Max	(c)
	Antimony	mg/kg	6.0E+00	9.2E+00 (G)	2.5E+01 J	9.2E+00	mg/kg	95% UCL - G	(h)
	Arsenic	mg/kg	1.4E+02	2.6E+02 (T)	1.5E+03 J	2.6E+02	mg/kg	95% UCL - T	(e)
	Barium	mg/kg	7.9E+01	9.4E+01 (N)	1.8E+02	9.4E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	5.2E+00	6.4E+00 (N)	1.2E+01	6.4E+00	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	5.6E+02	9.3E+02 (G)	2.6E+03	9.3E+02	mg/kg	95% UCL - G	(h)
	Copper	mg/kg	4.8E+02	6.3E+02 (N)	1.3E+03	6.3E+02	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	4.3E+02	5.2E+02 (N)	8.1E+02	5.2E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	7.0E+02	1.0E+03 (G)	1.9E+03	1.0E+03	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	1.4E+00	3.0E+00 (T)	1.2E+01 J	3.0E+00	mg/kg	95% UCL - T	(e)
	Nickel	mg/kg	2.8E+01	3.5E+01 (N)	7.9E+01	3.5E+01	mg/kg	95% UCL - N	(d)
	Thallium	mg/kg	3.6E-01	4.4E-01 (N)	7.0E-01 J	4.4E-01	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	5.4E+01	6.5E+01 (N)	1.0E+02	6.5E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	8.7E+02	1.1E+03 (N)	2.1E+03	1.1E+03	mg/kg	95% UCL - N	(d)

TABLE 3-3.2.CT
EXPOSURE POINT CONCENTRATION SUMMARY
CENTRAL TENDENCY EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station WS/WSS									
	Antimony	mg/kg	4.0E+00	4.9E+00 (N)	7.2E+00 J	4.9E+00	mg/kg	95% UCL - N	(d)
	Arsenic	mg/kg	1.7E+02	2.3E+02 (N)	3.4E+02	2.3E+02	mg/kg	95% UCL - N	(d)
	Barium	mg/kg	1.2E+02	1.4E+02 (N)	2.0E+02	1.4E+02	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	8.1E+00	1.1E+01 (N)	1.7E+01	1.1E+01	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	5.0E+02	7.3E+02 (N)	1.3E+03	7.3E+02	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	3.1E+02	4.1E+02 (N)	6.9E+02	4.1E+02	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	2.9E+02	3.7E+02 (N)	4.9E+02	3.7E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	1.0E+03	1.2E+03 (N)	1.4E+03 J	1.2E+03	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	9.8E-01	1.4E+00 (N)	1.8E+00 J	1.4E+00	mg/kg	95% UCL - N	(d)
	Nickel	mg/kg	3.0E+01	3.6E+01 (N)	4.6E+01 J	3.6E+01	mg/kg	95% UCL - N	(d)
	Thallium	mg/kg	7.6E-01	1.1E+00 (N)	2.2E+00 J	1.1E+00	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	3.7E+01	4.5E+01 (N)	5.6E+01	4.5E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	1.5E+03	2.0E+03 (N)	3.4E+03	2.0E+03	mg/kg	95% UCL - N	(d)
	Chromium VI	mg/kg	6.6E-01	9.5E-01 (N)	1.7E+00 J	9.5E-01	mg/kg	95% UCL - N	(d)
Station TT-30									
	Arsenic	mg/kg	1.1E+03	N/A (<4)	1.1E+03 J	1.1E+03	mg/kg	Max	(c)
	Barium	mg/kg	3.3E+01	N/A (<4)	3.3E+01 J	3.3E+01	mg/kg	Max	(c)
	Cadmium	mg/kg	7.1E+00	N/A (<4)	7.1E+00 J	7.1E+00	mg/kg	Max	(c)
	Chromium	mg/kg	5.3E+03	N/A (<4)	5.3E+03 J	5.3E+03	mg/kg	Max	(c)
	Copper	mg/kg	3.8E+03	N/A (<4)	3.8E+03 J	3.8E+03	mg/kg	Max	(c)
	Lead	mg/kg	4.3E+02	N/A (<4)	4.3E+02 J	4.3E+02	mg/kg	Max	(c)
	Manganese	mg/kg	2.1E+02	N/A (<4)	2.1E+02 J	2.1E+02	mg/kg	Max	(c)
	Mercury	mg/kg	8.9E+01	N/A (<4)	8.9E+01 J	8.9E+01	mg/kg	Max	(c)
	Nickel	mg/kg	8.0E+00	N/A (<4)	8.0E+00	8.0E+00	mg/kg	Max	(c)
	Thallium	mg/kg	1.5E+00	N/A (<4)	1.5E+00	1.5E+00	mg/kg	Max	(c)
	Vanadium	mg/kg	2.1E+01	N/A (<4)	2.1E+01	2.1E+01	mg/kg	Max	(c)
	Zinc	mg/kg	1.2E+03	N/A (<4)	1.2E+03	1.2E+03	mg/kg	Max	(c)
	Chromium VI	mg/kg	6.9E+00	N/A (<4)	6.9E+00 J	6.9E+00	mg/kg	Max	(c)

TABLE 3-3.2.CT
EXPOSURE POINT CONCENTRATION SUMMARY
CENTRAL TENDENCY EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station CB-01									
	Antimony	mg/kg	1.2E+00	2.0E+00 (G)	4.0E+00 J	2.0E+00	mg/kg	95% UCL - G	(h)
	Arsenic	mg/kg	4.1E+01	5.8E+01 (N)	9.9E+01 J	5.8E+01	mg/kg	95% UCL - N	(d)
	Barium	mg/kg	4.0E+01	5.9E+01 (N)	1.1E+02	5.9E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	5.2E+00	9.3E+00 (G)	1.6E+01 J	9.3E+00	mg/kg	95% UCL - G	(h)
	Chromium	mg/kg	2.2E+02	3.3E+02 (N)	5.8E+02	3.3E+02	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	3.9E+02	7.5E+02 (G)	1.1E+03 J	7.5E+02	mg/kg	95% UCL - G	(h)
	Lead	mg/kg	3.2E+02	4.4E+02 (N)	6.5E+02 J	4.4E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	3.4E+02	6.9E+02 (G)	1.3E+03 J	6.9E+02	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	1.5E+00	2.9E+00 (G)	4.8E+00 J	2.9E+00	mg/kg	95% UCL - G	(h)
	Nickel	mg/kg	9.2E+00	2.0E+01 (NP)	3.2E+01 J	2.0E+01	mg/kg	95% UCL - NP	(f)
	Thallium	mg/kg	1.0E+00	2.5E+00 (T)	3.1E+00	2.5E+00	mg/kg	95% UCL - T	(e)
	Vanadium	mg/kg	5.4E+01	7.9E+01 (G)	1.1E+02	7.9E+01	mg/kg	95% UCL - G	(h)
	Zinc	mg/kg	4.2E+02	6.4E+02 (N)	1.2E+03	6.4E+02	mg/kg	95% UCL - N	(d)
Station CB-02									
	Antimony	mg/kg	1.5E+00	1.8E+00 (N)	2.0E+00 J	1.8E+00	mg/kg	95% UCL - N	(d)
	Arsenic	mg/kg	2.7E+01	4.1E+01 (G)	5.6E+01 J	4.1E+01	mg/kg	95% UCL - G	(h)
	Barium	mg/kg	7.9E+01	1.7E+02 (T)	3.9E+02	1.7E+02	mg/kg	95% UCL - T	(e)
	Cadmium	mg/kg	3.1E+00	3.8E+00 (N)	5.8E+00 J	3.8E+00	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	1.1E+02	1.4E+02 (N)	2.5E+02 J	1.4E+02	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	7.5E+01	9.8E+01 (G)	1.7E+02	9.8E+01	mg/kg	95% UCL - G	(h)
	Lead	mg/kg	1.2E+02	2.4E+02 (NP)	3.4E+02 J	2.4E+02	mg/kg	95% UCL - NP	(f)
	Manganese	mg/kg	5.6E+01	7.2E+01 (G)	1.1E+02 J	7.2E+01	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	2.4E-01	3.3E-01 (G)	5.8E-01	3.3E-01	mg/kg	95% UCL - G	(h)
	Nickel	mg/kg	8.3E+00	1.0E+01 (N)	1.3E+01 J	1.0E+01	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	2.7E+01	3.2E+01 (N)	4.6E+01	3.2E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	2.5E+02	3.1E+02 (N)	4.5E+02 J	3.1E+02	mg/kg	95% UCL - N	(d)

TABLE 3-3.2.CT
EXPOSURE POINT CONCENTRATION SUMMARY
CENTRAL TENDENCY EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station CB-03									
	Antimony	mg/kg	1.5E+00	6.8E+00 (NP)	4.8E+00 J	1.5E+00	mg/kg	Mean	(b)
	Arsenic	mg/kg	2.7E+02	5.9E+02 (G)	1.4E+03	5.9E+02	mg/kg	95% UCL - G	(h)
	Barium	mg/kg	5.2E+01	6.7E+01 (N)	9.6E+01	6.7E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	7.4E+00	1.3E+01 (G)	2.3E+01 J	1.3E+01	mg/kg	95% UCL - G	(h)
	Chromium	mg/kg	4.6E+02	1.3E+03 (NP)	7.7E+02	4.6E+02	mg/kg	Mean	(b)
	Copper	mg/kg	2.7E+02	3.8E+02 (N)	6.7E+02 J	3.8E+02	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	2.0E+02	2.7E+02 (N)	4.4E+02 J	2.7E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	2.8E+02	4.6E+02 (G)	9.9E+02	4.6E+02	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	1.2E+00	2.5E+00 (G)	3.6E+00	2.5E+00	mg/kg	95% UCL - G	(h)
	Nickel	mg/kg	2.6E+01	3.7E+01 (G)	7.8E+01 J	3.7E+01	mg/kg	95% UCL - G	(h)
	Thallium	mg/kg	7.1E-01	9.7E-01 (N)	1.5E+00 J	9.7E-01	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	4.7E+01	6.2E+01 (N)	9.7E+01 J	6.2E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	1.1E+03	2.1E+03 (G)	5.3E+03	2.1E+03	mg/kg	95% UCL - G	(h)
Station CB-04									
	Antimony	mg/kg	3.6E+00	4.8E+00 (N)	7.2E+00	4.8E+00	mg/kg	95% UCL - N	(d)
	Arsenic	mg/kg	1.1E+02	1.8E+02 (G)	3.3E+02	1.8E+02	mg/kg	95% UCL - G	(h)
	Barium	mg/kg	6.1E+01	7.7E+01 (N)	1.1E+02	7.7E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	4.0E+00	5.7E+00 (N)	8.9E+00	5.7E+00	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	1.7E+02	2.7E+02 (G)	5.7E+02	2.7E+02	mg/kg	95% UCL - G	(h)
	Copper	mg/kg	1.8E+02	2.4E+02 (N)	3.6E+02	2.4E+02	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	2.1E+02	2.8E+02 (N)	4.1E+02	2.8E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	4.0E+02	1.4E+03 (NP)	2.4E+03	1.4E+03	mg/kg	95% UCL - NP	(f)
	Mercury	mg/kg	7.3E-01	1.2E+00 (G)	2.2E+00	1.2E+00	mg/kg	95% UCL - G	(h)
	Nickel	mg/kg	4.1E+01	7.7E+01 (G)	1.8E+02	7.7E+01	mg/kg	95% UCL - G	(h)
	Thallium	mg/kg	1.1E+00	6.5E+00 (NP)	5.3E+00	1.1E+00	mg/kg	Mean	(b)
	Vanadium	mg/kg	5.5E+01	6.8E+01 (N)	8.5E+01	6.8E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	1.4E+03	3.1E+03 (T)	8.8E+03	3.1E+03	mg/kg	95% UCL - T	(e)

TABLE 3-3.2 CT
EXPOSURE POINT CONCENTRATION SUMMARY
CENTRAL TENDENCY EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station CB-06									
	Antimony	mg/kg	1.7E+00	4.7E+00 (NP)	7.8E+00	4.7E+00	mg/kg	95% UCL - NP	(f)
	Arsenic	mg/kg	9.8E+01	1.4E+02 (N)	2.6E+02 J	1.4E+02	mg/kg	95% UCL - N	(d)
	Barium	mg/kg	4.0E+01	5.1E+01 (N)	6.0E+01	5.1E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	8.6E+00	1.7E+01 (G)	3.5E+01	1.7E+01	mg/kg	95% UCL - G	(h)
	Chromium	mg/kg	2.8E+02	5.0E+02 (G)	9.7E+02	5.0E+02	mg/kg	95% UCL - G	(h)
	Copper	mg/kg	1.8E+02	2.4E+02 (N)	3.9E+02	2.4E+02	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	1.4E+02	1.9E+02 (N)	3.3E+02	1.9E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	7.9E+01	9.4E+01 (N)	1.3E+02 J	9.4E+01	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	2.3E-01	3.4E-01 (N)	5.6E-01	3.4E-01	mg/kg	95% UCL - N	(d)
	Nickel	mg/kg	1.9E+01	2.8E+01 (G)	4.9E+01	2.8E+01	mg/kg	95% UCL - G	(h)
	Thallium	mg/kg	3.2E+00	4.1E+00 (N)	6.1E+00	4.1E+00	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	5.3E+01	7.2E+01 (N)	1.0E+02	7.2E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	1.4E+03	2.1E+03 (N)	3.8E+03 J	2.1E+03	mg/kg	95% UCL - N	(d)
	Chromium VI	mg/kg	3.6E-01	6.5E-01 (G)	1.3E+00 J	6.5E-01	mg/kg	95% UCL - G	(h)
Station CB-07									
	Arsenic	mg/kg	9.1E+01	2.1E+02 (N)	2.3E+02 J	2.1E+02	mg/kg	95% UCL - N	(d)
	Barium	mg/kg	3.2E+01	5.6E+01 (N)	5.7E+01	5.6E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	2.0E+00	4.9E+00 (N)	5.6E+00	4.9E+00	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	3.3E+02	7.1E+02 (N)	7.8E+02	7.1E+02	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	1.6E+02	8.7E+02 (G)	4.4E+02	1.6E+02	mg/kg	Mean	(b)
	Lead	mg/kg	1.5E+02	3.4E+02 (N)	3.8E+02	3.4E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	3.3E+02	6.7E+02 (N)	6.5E+02 J	3.3E+02	mg/kg	Mean	(b)
	Mercury	mg/kg	5.6E-01	1.3E+00 (N)	1.4E+00	1.3E+00	mg/kg	95% UCL - N	(d)
	Nickel	mg/kg	1.4E+01	2.2E+01 (N)	2.3E+01	2.2E+01	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	4.7E+01	9.2E+01 (N)	1.0E+02	9.2E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	3.0E+02	6.2E+02 (N)	6.7E+02 J	6.2E+02	mg/kg	95% UCL - N	(d)

TABLE 3-3.2.CT
EXPOSURE POINT CONCENTRATION SUMMARY
CENTRAL TENDENCY EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station 16/TT-33									
	Benzo(a)anthracene	mg/kg	2.4E-01	3.9E-01 (N)	1.1E-01 J	1.1E-01	mg/kg	Max	(c)
	Benzo(a)pyrene	mg/kg	2.5E-01	3.9E-01 (N)	1.4E-01 J	1.4E-01	mg/kg	Max	(c)
	Benzo(b)fluoranthene	mg/kg	2.3E-01	4.2E-01 (N)	2.6E-01	2.3E-01	mg/kg	Mean	(b)
	Benzo(k)fluoranthene	mg/kg	1.9E-01	3.9E-01 (N)	9.9E-02 J	9.9E-02	mg/kg	Max	(c)
	Indeno(1,2,3-cd)pyrene	mg/kg	2.3E-01	4.0E-01 (N)	6.0E-02 J	6.0E-02	mg/kg	Max	(c)
	Phenanthrene	mg/kg	2.4E-01	3.9E-01 (N)	1.3E-01 J	1.3E-01	mg/kg	Max	(c)
	Antimony	mg/kg	3.4E+00	5.9E+00 (N)	9.1E+00 J	5.9E+00	mg/kg	95% UCL - N	(d)
	Arsenic	mg/kg	1.4E+02	2.4E+02 (N)	2.9E+02 J	2.4E+02	mg/kg	95% UCL - N	(d)
	Barium	mg/kg	4.2E+01	6.2E+01 (N)	7.8E+01	6.2E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	3.3E+00	5.6E+00 (N)	7.4E+00 J	5.6E+00	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	5.7E+02	4.2E+03 (G)	2.2E+03 J	5.7E+02	mg/kg	Mean	(b)
	Copper	mg/kg	2.4E+02	4.0E+02 (N)	4.9E+02 J	4.0E+02	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	1.2E+02	2.0E+02 (N)	2.9E+02 J	2.0E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	3.9E+02	8.8E+02 (G)	7.8E+02	3.9E+02	mg/kg	Mean	(b)
	Mercury	mg/kg	1.9E+00	3.4E+00 (N)	5.6E+00 J	3.4E+00	mg/kg	95% UCL - N	(d)
	Nickel	mg/kg	1.0E+01	1.5E+01 (N)	2.2E+01	1.5E+01	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	2.0E+01	3.1E+01 (N)	4.2E+01	3.1E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	5.8E+02	9.3E+02 (N)	1.1E+03 J	9.3E+02	mg/kg	95% UCL - N	(d)
	Chromium VI	mg/kg	7.4E-01	5.4E+00 (G)	2.9E+00 J	7.4E-01	mg/kg	Mean	(b)

TABLE 3-3.2 CT
EXPOSURE POINT CONCENTRATION SUMMARY
CENTRAL TENDENCY EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station 09									
	Benzo(a)anthracene	mg/kg	2.1E-01	4.8E-01 (T)	1.0E+00	4.8E-01	mg/kg	95% UCL - T	(e)
	Benzo(a)pyrene	mg/kg	2.1E-01	5.0E-01 (T)	1.1E+00	5.0E-01	mg/kg	95% UCL - T	(e)
	Benzo(b)fluoranthene	mg/kg	4.0E-01	1.3E+00 (NP)	2.3E+00	1.3E+00	mg/kg	95% UCL - NP	(f)
	Benzo(k)fluoranthene	mg/kg	3.6E-01	1.2E+00 (NP)	2.1E+00	1.2E+00	mg/kg	95% UCL - NP	(f)
	Dibenz(a,h)anthracene	mg/kg	2.1E-01	2.3E-01 (NP)	8.0E-02 J	8.0E-02	mg/kg	Max	(c)
	Indeno(1,2,3-cd)pyrene	mg/kg	1.9E-01	2.5E-01 (N)	3.7E-01 J	2.5E-01	mg/kg	95% UCL - N	(d)
	Phenanthrene	mg/kg	3.1E-01	2.1E+00 (NP)	1.9E+00	3.1E-01	mg/kg	Mean	(b)
	Antimony	mg/kg	8.1E-01	1.0E+00 (N)	1.3E+00	1.0E+00	mg/kg	95% UCL - N	(d)
	Arsenic	mg/kg	2.9E+01	3.5E+01 (N)	4.9E+01 J	3.5E+01	mg/kg	95% UCL - N	(d)
	Barium	mg/kg	2.1E+01	3.3E+01 (G)	7.4E+01	3.3E+01	mg/kg	95% UCL - G	(h)
	Cadmium	mg/kg	4.9E-01	6.8E-01 (G)	1.2E+00 J	6.8E-01	mg/kg	95% UCL - G	(h)
	Chromium	mg/kg	4.5E+01	5.9E+01 (N)	9.2E+01 J	5.9E+01	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	4.7E+01	6.3E+01 (N)	1.0E+02 J	6.3E+01	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	3.0E+01	4.4E+01 (N)	8.7E+01	4.4E+01	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	3.6E+02	2.9E+03 (NP)	2.6E+03 J	3.6E+02	mg/kg	Mean	(b)
	Mercury	mg/kg	2.6E-01	3.9E-01 (N)	6.8E-01 J	3.9E-01	mg/kg	95% UCL - N	(d)
	Nickel	mg/kg	8.0E+00	9.7E+00 (G)	1.3E+01	9.7E+00	mg/kg	95% UCL - G	(h)
	Thallium	mg/kg	9.2E-01	1.3E+00 (N)	2.4E+00	1.3E+00	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	1.1E+01	1.4E+01 (N)	1.9E+01	1.4E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	1.6E+02	2.4E+02 (G)	4.8E+02 J	2.4E+02	mg/kg	95% UCL - G	(h)
Station AM									
	Antimony	mg/kg	2.0E+00	N/A (<4)	2.0E+00 J	2.0E+00	mg/kg	Max	(c)
	Arsenic	mg/kg	1.2E+02	N/A (<4)	1.2E+02	1.2E+02	mg/kg	Max	(c)
	Barium	mg/kg	5.8E+01	N/A (<4)	5.8E+01	5.8E+01	mg/kg	Max	(c)
	Cadmium	mg/kg	3.9E+00	N/A (<4)	3.9E+00	3.9E+00	mg/kg	Max	(c)
	Chromium	mg/kg	3.2E+02	N/A (<4)	3.2E+02	3.2E+02	mg/kg	Max	(c)
	Copper	mg/kg	2.0E+02	N/A (<4)	2.0E+02	2.0E+02	mg/kg	Max	(c)
	Lead	mg/kg	1.5E+02	N/A (<4)	1.5E+02	1.5E+02	mg/kg	Max	(c)
	Manganese	mg/kg	1.1E+03	N/A (<4)	1.1E+03 J	1.1E+03	mg/kg	Max	(c)
	Mercury	mg/kg	1.9E+00	N/A (<4)	1.9E+00	1.9E+00	mg/kg	Max	(c)
	Nickel	mg/kg	1.8E+01	N/A (<4)	1.8E+01 J	1.8E+01	mg/kg	Max	(c)
	Thallium	mg/kg	4.4E-01	N/A (<4)	4.4E-01 J	4.4E-01	mg/kg	Max	(c)
	Vanadium	mg/kg	2.7E+01	N/A (<4)	2.7E+01	2.7E+01	mg/kg	Max	(c)
	Zinc	mg/kg	9.4E+02	N/A (<4)	9.4E+02	9.4E+02	mg/kg	Max	(c)

TABLE 3-3.2.CT
EXPOSURE POINT CONCENTRATION SUMMARY
CENTRAL TENDENCY EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station KF									
	Arsenic	mg/kg	3.8E+01	5.2E+01 (N)	9.0E+01	5.2E+01	mg/kg	95% UCL - N	(d)
	Barium	mg/kg	3.3E+01	4.1E+01 (N)	5.5E+01	4.1E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	5.6E-01	1.0E+00 (G)	1.1E+00	1.0E+00	mg/kg	95% UCL - G	(h)
	Chromium	mg/kg	6.7E+01	8.8E+01 (N)	1.1E+02	8.8E+01	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	7.9E+01	1.1E+02 (N)	1.9E+02	1.1E+02	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	9.7E+01	1.3E+02 (N)	1.9E+02	1.3E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	2.9E+02	3.6E+02 (N)	5.0E+02	3.6E+02	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	5.1E-01	8.9E-01 (G)	1.6E+00 J	8.9E-01	mg/kg	95% UCL - G	(h)
	Nickel	mg/kg	6.7E+00	9.0E+00 (N)	1.3E+01	9.0E+00	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	1.9E+01	2.3E+01 (N)	3.0E+01	2.3E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	2.8E+02	3.5E+02 (N)	4.6E+02	3.5E+02	mg/kg	95% UCL - N	(d)
Station 08									
	Benzo(a)anthracene	mg/kg	4.8E-01	N/A (<4)	6.8E-01	4.8E-01	mg/kg	Mean	(b)
	Benzo(a)pyrene	mg/kg	6.3E-01	N/A (<4)	9.4E-01	6.3E-01	mg/kg	Mean	(b)
	Benzo(b)fluoranthene	mg/kg	1.3E+00	N/A (<4)	1.9E+00	1.3E+00	mg/kg	Mean	(b)
	Benzo(k)fluoranthene	mg/kg	1.4E+00	N/A (<4)	2.0E+00	1.4E+00	mg/kg	Mean	(b)
	Dibenz(a,h)anthracene	mg/kg	9.3E-02	N/A (<4)	1.6E-01 J	9.3E-02	mg/kg	Mean	(b)
	Indeno(1,2,3-cd)pyrene	mg/kg	4.0E-01	N/A (<4)	6.8E-01	4.0E-01	mg/kg	Mean	(b)
	Phenanthrene	mg/kg	4.8E-01	N/A (<4)	6.1E-01	4.8E-01	mg/kg	Mean	(b)
	Antimony	mg/kg	1.0E+00	N/A (<4)	1.6E+00	1.0E+00	mg/kg	Mean	(b)
	Arsenic	mg/kg	1.9E+01	N/A (<4)	2.9E+01 J	1.9E+01	mg/kg	Mean	(b)
	Barium	mg/kg	1.9E+01	N/A (<4)	2.1E+01	1.9E+01	mg/kg	Mean	(b)
	Chromium	mg/kg	5.4E+01	N/A (<4)	1.2E+02 J	5.4E+01	mg/kg	Mean	(b)
	Copper	mg/kg	7.4E+01	N/A (<4)	1.3E+02 J	7.4E+01	mg/kg	Mean	(b)
	Lead	mg/kg	4.3E+01	N/A (<4)	7.1E+01	4.3E+01	mg/kg	Mean	(b)
	Manganese	mg/kg	1.6E+02	N/A (<4)	2.3E+02 J	1.6E+02	mg/kg	Mean	(b)
	Mercury	mg/kg	4.6E-01	N/A (<4)	1.0E+00 J	4.6E-01	mg/kg	Mean	(b)
	Nickel	mg/kg	1.2E+01	N/A (<4)	2.0E+01	1.2E+01	mg/kg	Mean	(b)
	Thallium	mg/kg	1.4E+00	N/A (<4)	1.7E+00	1.4E+00	mg/kg	Mean	(b)
	Vanadium	mg/kg	1.5E+01	N/A (<4)	1.8E+01	1.5E+01	mg/kg	Mean	(b)
	Zinc	mg/kg	3.5E+02	N/A (<4)	5.4E+02 J	3.5E+02	mg/kg	Mean	(b)

TABLE 3-3.2.CT
EXPOSURE POINT CONCENTRATION SUMMARY
CENTRAL TENDENCY EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station 07/DP									
	Trichloroethene	mg/kg	1.5E-02	2.2E-02 (G)	3.5E-02 J	2.2E-02	mg/kg	95% UCL - G	(h)
	Benzo(a)anthracene	mg/kg	3.8E+00	5.6E+00 (N)	9.6E+00	5.6E+00	mg/kg	95% UCL - N	(d)
	Benzo(a)pyrene	mg/kg	3.8E+00	5.5E+00 (N)	1.0E+01	5.5E+00	mg/kg	95% UCL - N	(d)
	Benzo(b)fluoranthene	mg/kg	6.6E+00	9.5E+00 (N)	1.6E+01 J	9.5E+00	mg/kg	95% UCL - N	(d)
	Benzo(k)fluoranthene	mg/kg	5.0E+00	9.2E+00 (G)	1.4E+01 J	9.2E+00	mg/kg	95% UCL - G	(h)
	Dibenz(a,h)anthracene	mg/kg	5.5E-01	1.1E+00 (G)	2.0E+00	1.1E+00	mg/kg	95% UCL - G	(h)
	Indeno(1,2,3-cd)pyrene	mg/kg	1.9E+00	3.9E+00 (G)	6.9E+00	3.9E+00	mg/kg	95% UCL - G	(h)
	Phenanthrene	mg/kg	3.7E+00	6.8E+00 (G)	1.2E+01	6.8E+00	mg/kg	95% UCL - G	(h)
	Aroclor 1260	mg/kg	5.1E-02	6.6E-02 (N)	7.4E-02	6.6E-02	mg/kg	95% UCL - N	(d)
	Antimony	mg/kg	1.9E+00	2.3E+00 (N)	3.1E+00	2.3E+00	mg/kg	95% UCL - N	(d)
	Arsenic	mg/kg	5.7E+01	8.0E+01 (N)	1.3E+02 J	8.0E+01	mg/kg	95% UCL - N	(d)
	Barium	mg/kg	6.4E+01	8.4E+01 (N)	1.2E+02	8.4E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	3.3E+00	5.1E+00 (N)	1.0E+01	5.1E+00	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	1.8E+02	2.5E+02 (N)	4.4E+02 J	2.5E+02	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	1.6E+02	2.3E+02 (N)	3.8E+02 J	2.3E+02	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	2.5E+02	3.5E+02 (N)	4.8E+02	3.5E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	3.2E+02	4.2E+02 (N)	6.0E+02 J	4.2E+02	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	1.4E+00	2.8E+00 (G)	5.7E+00 J	2.8E+00	mg/kg	95% UCL - G	(h)
	Nickel	mg/kg	2.2E+01	2.7E+01 (N)	3.8E+01	2.7E+01	mg/kg	95% UCL - N	(d)
	Thallium	mg/kg	1.6E+00	2.2E+00 (N)	3.8E+00	2.2E+00	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	4.0E+01	5.2E+01 (N)	7.9E+01	5.2E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	9.3E+02	1.3E+03 (N)	2.5E+03 J	1.3E+03	mg/kg	95% UCL - N	(d)

TABLE 3-3.2.CT
EXPOSURE POINT CONCENTRATION SUMMARY
CENTRAL TENDENCY EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station LP									
	Antimony	mg/kg	1.3E+00	1.9E+00 (NP)	5.1E+00 J	1.9E+00	mg/kg	95% UCL - NP	(f)
	Arsenic	mg/kg	7.1E+01	1.5E+02 (G)	4.9E+02 J	1.5E+02	mg/kg	95% UCL - G	(h)
	Barium	mg/kg	3.2E+01	4.1E+01 (N)	6.9E+01	4.1E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	2.0E+00	2.9E+00 (N)	5.6E+00 J	2.9E+00	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	5.4E+01	8.7E+01 (G)	1.3E+02	8.7E+01	mg/kg	95% UCL - G	(h)
	Copper	mg/kg	2.0E+02	4.8E+02 (G)	1.6E+03 J	4.8E+02	mg/kg	95% UCL - G	(h)
	Lead	mg/kg	8.2E+01	1.6E+02 (G)	4.0E+02 J	1.6E+02	mg/kg	95% UCL - G	(h)
	Manganese	mg/kg	1.7E+02	2.1E+02 (N)	3.3E+02	2.1E+02	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	4.6E-01	8.1E-01 (G)	1.4E+00	8.1E-01	mg/kg	95% UCL - G	(h)
	Nickel	mg/kg	1.0E+01	1.4E+01 (N)	3.1E+01	1.4E+01	mg/kg	95% UCL - N	(d)
	Thallium	mg/kg	1.5E+00	2.0E+00 (G)	2.9E+00 J	2.0E+00	mg/kg	95% UCL - G	(h)
	Vanadium	mg/kg	1.8E+01	2.3E+01 (N)	4.0E+01	2.3E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	7.8E+02	1.7E+03 (G)	2.8E+03	1.7E+03	mg/kg	95% UCL - G	(h)
Station AS									
	Antimony	mg/kg	2.5E+00	N/A (<4)	2.9E+00 J	2.5E+00	mg/kg	Mean	(b)
	Arsenic	mg/kg	1.2E+02	N/A (<4)	1.2E+02	1.2E+02	mg/kg	Mean	(b)
	Barium	mg/kg	1.0E+02	N/A (<4)	1.1E+02	1.0E+02	mg/kg	Mean	(b)
	Cadmium	mg/kg	1.2E+01	N/A (<4)	1.3E+01	1.2E+01	mg/kg	Mean	(b)
	Chromium	mg/kg	7.5E+02	N/A (<4)	9.2E+02	7.5E+02	mg/kg	Mean	(b)
	Copper	mg/kg	5.1E+02	N/A (<4)	5.8E+02	5.1E+02	mg/kg	Mean	(b)
	Lead	mg/kg	5.7E+02	N/A (<4)	6.6E+02	5.7E+02	mg/kg	Mean	(b)
	Manganese	mg/kg	3.8E+02	N/A (<4)	3.8E+02 J	3.8E+02	mg/kg	Mean	(b)
	Mercury	mg/kg	3.1E+00	N/A (<4)	3.1E+00	3.1E+00	mg/kg	Mean	(b)
	Nickel	mg/kg	3.7E+01	N/A (<4)	3.9E+01 J	3.7E+01	mg/kg	Mean	(b)
	Thallium	mg/kg	1.1E+00	N/A (<4)	1.2E+00 J	1.1E+00	mg/kg	Mean	(b)
	Vanadium	mg/kg	6.6E+01	N/A (<4)	7.3E+01	6.6E+01	mg/kg	Mean	(b)
	Zinc	mg/kg	2.2E+03	N/A (<4)	2.3E+03	2.2E+03	mg/kg	Mean	(b)

TABLE 3-3.2 CT
EXPOSURE POINT CONCENTRATION SUMMARY
CENTRAL TENDENCY EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station 05									
	Benzo(a)anthracene	mg/kg	4.3E-01	N/A (<4)	2.3E+00 J	4.3E-01	mg/kg	Mean	(b)
	Benzo(a)pyrene	mg/kg	3.5E-01	N/A (<4)	2.5E+00 J	3.5E-01	mg/kg	Mean	(b)
	Benzo(b)fluoranthene	mg/kg	3.5E-01	N/A (<4)	3.0E+00 J	3.5E-01	mg/kg	Mean	(b)
	Benzo(k)fluoranthene	mg/kg	2.5E-01	N/A (<4)	1.9E+00 J	2.5E-01	mg/kg	Mean	(b)
	Indeno(1,2,3-cd)pyrene	mg/kg	1.7E-01	N/A (<4)	1.2E+00 J	1.7E-01	mg/kg	Mean	(b)
	Phenanthrene	mg/kg	6.8E-01	N/A (<4)	2.2E+00 J	6.8E-01	mg/kg	Mean	(b)
	Antimony	mg/kg	9.4E-01	N/A (<4)	1.8E+00 J	9.4E-01	mg/kg	Mean	(b)
	Arsenic	mg/kg	8.3E+00	N/A (<4)	2.5E+01	8.3E+00	mg/kg	Mean	(b)
	Barium	mg/kg	3.5E+01	N/A (<4)	4.3E+01	3.5E+01	mg/kg	Mean	(b)
	Cadmium	mg/kg	2.2E-01	N/A (<4)	1.6E+00	2.2E-01	mg/kg	Mean	(b)
	Chromium	mg/kg	3.4E+01	N/A (<4)	1.5E+02	3.4E+01	mg/kg	Mean	(b)
	Copper	mg/kg	2.5E+01	N/A (<4)	8.0E+01	2.5E+01	mg/kg	Mean	(b)
	Lead	mg/kg	2.7E+02	N/A (<4)	1.5E+02	1.5E+02	mg/kg	Max	(c)
	Manganese	mg/kg	4.2E+02	N/A (<4)	9.5E+02	4.2E+02	mg/kg	Mean	(b)
	Mercury	mg/kg	9.0E-02	N/A (<4)	1.2E+00 J	9.0E-02	mg/kg	Mean	(b)
	Nickel	mg/kg	1.0E+01	N/A (<4)	1.1E+01	1.0E+01	mg/kg	Mean	(b)
	Thallium	mg/kg	6.1E-01	N/A (<4)	9.7E-01	6.1E-01	mg/kg	Mean	(b)
	Vanadium	mg/kg	1.9E+01	N/A (<4)	1.9E+01	1.9E+01	mg/kg	Mean	(b)
	Zinc	mg/kg	1.2E+02	N/A (<4)	5.7E+02	1.2E+02	mg/kg	Mean	(b)

TABLE 3-3 2.CT
EXPOSURE POINT CONCENTRATION SUMMARY
CENTRAL TENDENCY EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station 03									
	Benzo(a)anthracene	mg/kg	5.7E-01	N/A (<4)	1.3E+00	5.7E-01	mg/kg	Mean	(b)
	Benzo(a)pyrene	mg/kg	4.7E-01	N/A (<4)	1.0E+00	4.7E-01	mg/kg	Mean	(b)
	Benzo(b)fluoranthene	mg/kg	6.0E-01	N/A (<4)	1.4E+00	6.0E-01	mg/kg	Mean	(b)
	Benzo(k)fluoranthene	mg/kg	3.5E-01	N/A (<4)	6.4E-01	3.5E-01	mg/kg	Mean	(b)
	Dibenz(a,h)anthracene	mg/kg	1.7E-01	N/A (<4)	1.1E-01	1.1E-01	mg/kg	Max	(c)
	Indeno(1,2,3-cd)pyrene	mg/kg	3.4E-01	N/A (<4)	6.2E-01	3.4E-01	mg/kg	Mean	(b)
	Phenanthrene	mg/kg	4.7E-01	N/A (<4)	1.0E+00	4.7E-01	mg/kg	Mean	(b)
	Aroclor 1260	mg/kg	5.0E-02	N/A (<4)	1.1E-01	5.0E-02	mg/kg	Mean	(b)
	Antimony	mg/kg	8.0E-01	N/A (<4)	1.7E+00 J	8.0E-01	mg/kg	Mean	(b)
	Arsenic	mg/kg	3.3E+01	N/A (<4)	8.7E+01	3.3E+01	mg/kg	Mean	(b)
	Barium	mg/kg	3.5E+01	N/A (<4)	8.5E+01	3.5E+01	mg/kg	Mean	(b)
	Cadmium	mg/kg	1.7E+00	N/A (<4)	5.2E+00	1.7E+00	mg/kg	Mean	(b)
	Chromium	mg/kg	7.3E+01	N/A (<4)	2.0E+02 J	7.3E+01	mg/kg	Mean	(b)
	Copper	mg/kg	6.2E+01	N/A (<4)	1.7E+02	6.2E+01	mg/kg	Mean	(b)
	Lead	mg/kg	1.2E+02	N/A (<4)	3.5E+02 J	1.2E+02	mg/kg	Mean	(b)
	Manganese	mg/kg	2.1E+02	N/A (<4)	5.0E+02	2.1E+02	mg/kg	Mean	(b)
	Mercury	mg/kg	2.6E-01	N/A (<4)	7.1E-01	2.6E-01	mg/kg	Mean	(b)
	Nickel	mg/kg	1.2E+01	N/A (<4)	2.7E+01 J	1.2E+01	mg/kg	Mean	(b)
	Vanadium	mg/kg	2.2E+01	N/A (<4)	4.9E+01	2.2E+01	mg/kg	Mean	(b)
	Zinc	mg/kg	5.2E+02	N/A (<4)	1.4E+03 J	5.2E+02	mg/kg	Mean	(b)

TABLE 3-3.2 CT

EXPOSURE POINT CONCENTRATION SUMMARY

CENTRAL TENDENCY EXPOSURE

WELLS G&H SUPERFUND SITE OU3

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)
Station 01									
	Benzo(a)anthracene	mg/kg	1.9E-01	2.5E-01 (N)	2.5E-01 J	1.9E-01	mg/kg	Mean	(b)
	Benzo(a)pyrene	mg/kg	1.7E-01	2.4E-01 (NP)	2.1E-01 J	1.7E-01	mg/kg	Mean	(b)
	Benzo(b)fluoranthene	mg/kg	1.7E-01	2.2E-01 (N)	1.7E-01 J	1.7E-01	mg/kg	Mean	(b)
	Benzo(k)fluoranthene	mg/kg	1.8E-01	2.4E-01 (NP)	2.1E-01 J	1.8E-01	mg/kg	Mean	(b)
	Indeno(1,2,3-cd)pyrene	mg/kg	1.8E-01	2.2E-01 (N)	1.2E-01 J	1.2E-01	mg/kg	Max	(c)
	Phenanthrene	mg/kg	3.0E-01	4.6E-01 (N)	5.0E-01 J	4.6E-01	mg/kg	95% UCL - N	(d)
	Antimony	mg/kg	4.9E-01	8.8E-01 (N)	9.4E-01 J	8.8E-01	mg/kg	95% UCL - N	(d)
	Arsenic	mg/kg	4.6E+00	6.2E+00 (N)	6.2E+00	6.2E+00	mg/kg	95% UCL - N	(d)
	Barium	mg/kg	1.1E+01	1.2E+01 (N)	1.3E+01	1.2E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	7.8E-02	1.7E-01 (N)	1.8E-01	1.7E-01	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	8.3E+00	1.0E+01 (N)	9.8E+00	8.3E+00	mg/kg	Mean	(b)
	Copper	mg/kg	1.2E+01	1.7E+01 (N)	1.7E+01	1.2E+01	mg/kg	Mean	(b)
	Lead	mg/kg	1.9E+01	3.6E+01 (N)	4.0E+01 J	3.6E+01	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	8.2E+01	1.0E+02 (N)	1.0E+02	8.2E+01	mg/kg	Mean	(b)
	Nickel	mg/kg	6.4E+00	7.6E+00 (N)	7.2E+00	6.4E+00	mg/kg	Mean	(b)
	Thallium	mg/kg	4.0E-01	5.2E-01 (N)	5.4E-01	5.2E-01	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	9.6E+00	1.2E+01 (N)	1.2E+01	9.6E+00	mg/kg	Mean	(b)
	Zinc	mg/kg	1.0E+02	1.6E+02 (N)	1.5E+02	1.0E+02	mg/kg	Mean	(b)

(1) Refer to Appendix C.1 for station sample groupings; only COPCs selected on Table 3-2.2 and detected at each station 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.

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 3-3.3 RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station NR									
	Arsenic	mg/kg	1.7E+02	2.1E+02 (N)	2.2E+02	2.1E+02	mg/kg	95% UCL - N	(d)
	Barium	mg/kg	4.1E+01	5.6E+01 (N)	6.6E+01	5.6E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	1.3E+00	2.2E+00 (N)	2.7E+00	2.2E+00	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	1.9E+02	2.5E+02 (N)	2.6E+02	2.5E+02	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	2.0E+02	3.0E+02 (N)	3.7E+02	3.0E+02	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	1.6E+02	2.2E+02 (N)	2.5E+02	2.2E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	1.6E+02	2.5E+02 (N)	3.2E+02	2.5E+02	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	2.6E+00	4.5E+00 (N)	5.9E+00	4.5E+00	mg/kg	95% UCL - N	(d)
	Nickel	mg/kg	1.1E+01	1.4E+01 (N)	1.6E+01	1.4E+01	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	2.4E+01	3.1E+01 (N)	3.3E+01	3.1E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	3.4E+02	4.9E+02 (N)	6.0E+02 J	4.9E+02	mg/kg	95% UCL - N	(d)
Station 14									
	Benzo(a)anthracene	mg/kg	9.7E-01	N/A (<4)	1.1E+00 J	1.1E+00	mg/kg	Max	(a)
	Benzo(a)pyrene	mg/kg	1.0E+00	N/A (<4)	8.9E-01 J	8.9E-01	mg/kg	Max	(a)
	Benzo(b)fluoranthene	mg/kg	1.4E+00	N/A (<4)	2.1E+00 J	2.1E+00	mg/kg	Max	(a)
	Benzo(k)fluoranthene	mg/kg	1.1E+00	N/A (<4)	1.1E+00 J	1.1E+00	mg/kg	Max	(a)
	Phenanthrene	mg/kg	1.5E+00	N/A (<4)	2.6E+00 J	2.6E+00	mg/kg	Max	(a)
	Antimony	mg/kg	9.1E-01	N/A (<4)	9.9E-01 J	9.9E-01	mg/kg	Max	(a)
	Arsenic	mg/kg	6.1E+01	N/A (<4)	7.3E+01	7.3E+01	mg/kg	Max	(a)
	Barium	mg/kg	1.6E+01	N/A (<4)	1.8E+01	1.8E+01	mg/kg	Max	(a)
	Cadmium	mg/kg	6.4E-01	N/A (<4)	1.0E+00	1.0E+00	mg/kg	Max	(a)
	Chromium	mg/kg	1.0E+02	N/A (<4)	2.2E+02	2.2E+02	mg/kg	Max	(a)
	Copper	mg/kg	5.7E+01	N/A (<4)	6.5E+01	6.5E+01	mg/kg	Max	(a)
	Lead	mg/kg	6.8E+01	N/A (<4)	1.3E+02 J	1.3E+02	mg/kg	Max	(a)
	Manganese	mg/kg	1.3E+02	N/A (<4)	1.7E+02 J	1.7E+02	mg/kg	Max	(a)
	Mercury	mg/kg	5.9E-01	N/A (<4)	1.4E+00 J	1.4E+00	mg/kg	Max	(a)
	Nickel	mg/kg	7.3E+00	N/A (<4)	1.0E+01	1.0E+01	mg/kg	Max	(a)
	Thallium	mg/kg	4.9E-01	N/A (<4)	8.1E-01	8.1E-01	mg/kg	Max	(a)
	Vanadium	mg/kg	1.1E+01	N/A (<4)	1.3E+01	1.3E+01	mg/kg	Max	(a)
	Zinc	mg/kg	2.2E+02	N/A (<4)	2.7E+02	2.7E+02	mg/kg	Max	(a)

TABLE 3-3.3.RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station 22/TT-22									
	Tetrachloroethene	mg/kg	1.1E+00	2.8E+00 (N)	3.2E+00	2.8E+00	mg/kg	95% UCL - N	(d)
	Trichloroethene	mg/kg	2.6E-01	7.0E-01 (N)	8.0E-01	7.0E-01	mg/kg	95% UCL - N	(d)
	Benzo(a)anthracene	mg/kg	3.4E-01	N/A (<4)	3.0E-01	3.0E-01	mg/kg	Max	(a)
	Benzo(a)pyrene	mg/kg	3.2E-01	N/A (<4)	2.0E-01	2.0E-01	mg/kg	Max	(a)
	Benzo(b)fluoranthene	mg/kg	3.9E-01	4.9E-01 (NP)	4.4E-01	4.4E-01	mg/kg	Max	(g)
	Benzo(k)fluoranthene	mg/kg	4.2E-01	N/A (<4)	5.4E-01 J	5.4E-01	mg/kg	Max	(a)
	Dibenz(a,h)anthracene	mg/kg	2.5E-01	N/A (<4)	4.4E-02 J	4.4E-02	mg/kg	Max	(a)
	Indeno(1,2,3-cd)pyrene	mg/kg	3.1E-01	N/A (<4)	2.2E-01	2.2E-01	mg/kg	Max	(a)
	Phenanthrene	mg/kg	4.0E-01	N/A (<4)	4.9E-01	4.9E-01	mg/kg	Max	(a)
	Aroclor 1260	mg/kg	3.2E-02	N/A (<4)	2.9E-02	2.9E-02	mg/kg	Max	(a)
	Antimony	mg/kg	7.0E+01	9.2E+02 (G)	3.3E+02 J	3.3E+02	mg/kg	Max	(g)
	Arsenic	mg/kg	2.1E+01	7.7E+01 (G)	8.7E+01 J	7.7E+01	mg/kg	95% UCL - G	(h)
	Barium	mg/kg	4.1E+01	4.9E+01 (NP)	5.1E+01 J	4.9E+01	mg/kg	95% UCL - NP	(f)
	Cadmium	mg/kg	1.0E+00	1.4E+00 (N)	1.7E+00 J	1.4E+00	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	2.5E+01	6.5E+01 (T)	8.5E+01 J	6.5E+01	mg/kg	95% UCL - T	(e)
	Copper	mg/kg	2.3E+01	2.9E+01 (N)	3.8E+01 J	2.9E+01	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	6.8E+03	3.3E+04 (T)	4.1E+04 J	3.3E+04	mg/kg	95% UCL - T	(e)
	Manganese	mg/kg	7.1E+01	1.2E+02 (G)	1.9E+02 J	1.2E+02	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	1.5E-01	4.6E-01 (G)	5.0E-01	4.6E-01	mg/kg	95% UCL - G	(h)
	Nickel	mg/kg	7.8E+00	1.1E+01 (G)	1.8E+01	1.1E+01	mg/kg	95% UCL - G	(h)
	Vanadium	mg/kg	3.1E+01	4.1E+01 (N)	5.0E+01	4.1E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	7.0E+01	9.6E+01 (N)	1.2E+02 J	9.6E+01	mg/kg	95% UCL - N	(d)

TABLE 3-3.3.RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station 13/TT-27									
	Trichloroethene	mg/kg	2.2E-02	N/A (<4)	3.7E-02 J	3.7E-02	mg/kg	Max	(a)
	Benzo(a)anthracene	mg/kg	8.3E-01	1.3E+00 (N)	1.7E+00	1.3E+00	mg/kg	95% UCL - N	(d)
	Benzo(a)pyrene	mg/kg	9.1E-01	1.3E+00 (N)	1.7E+00	1.3E+00	mg/kg	95% UCL - N	(d)
	Benzo(b)fluoranthene	mg/kg	1.7E+00	2.6E+00 (N)	3.6E+00 J	2.6E+00	mg/kg	95% UCL - N	(d)
	Benzo(k)fluoranthene	mg/kg	1.3E+00	2.3E+00 (N)	3.4E+00 J	2.3E+00	mg/kg	95% UCL - N	(d)
	Dibenz(a,h)anthracene	mg/kg	2.2E-01	3.1E-01 (N)	3.3E-01 J	3.1E-01	mg/kg	95% UCL - N	(d)
	Indeno(1,2,3-cd)pyrene	mg/kg	6.4E-01	8.8E-01 (N)	1.0E+00	8.8E-01	mg/kg	95% UCL - N	(d)
	Phenanthrene	mg/kg	9.5E-01	1.7E+00 (N)	2.7E+00	1.7E+00	mg/kg	95% UCL - N	(d)
	Aroclor 1254	mg/kg	1.6E-02	N/A (<4)	4.5E-02	4.5E-02	mg/kg	Max	(a)
	Aroclor 1260	mg/kg	1.6E-01	3.3E-01 (N)	3.1E-01 J	3.1E-01	mg/kg	Max	(g)
	Antimony	mg/kg	1.3E+01	9.2E+01 (G)	6.1E+01 J	6.1E+01	mg/kg	Max	(g)
	Arsenic	mg/kg	8.8E+02	3.6E+03 (G)	4.2E+03 J	3.6E+03	mg/kg	95% UCL - G	(h)
	Barium	mg/kg	1.6E+02	2.4E+02 (G)	3.9E+02	2.4E+02	mg/kg	95% UCL - G	(h)
	Cadmium	mg/kg	6.8E+00	9.4E+00 (N)	1.4E+01 J	9.4E+00	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	4.0E+02	5.6E+02 (N)	7.3E+02 J	5.6E+02	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	7.4E+02	1.6E+03 (G)	2.3E+03 J	1.6E+03	mg/kg	95% UCL - G	(h)
	Lead	mg/kg	7.0E+02	9.5E+02 (N)	1.3E+03 J	9.5E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	5.2E+02	7.6E+02 (N)	1.1E+03 J	7.6E+02	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	5.2E+00	2.1E+01 (G)	2.0E+01 J	2.0E+01	mg/kg	Max	(g)
	Nickel	mg/kg	2.4E+01	3.2E+01 (G)	5.3E+01 J	3.2E+01	mg/kg	95% UCL - G	(h)
	Thallium	mg/kg	1.1E+00	6.2E+00 (NP)	3.7E+00 J	3.7E+00	mg/kg	Max	(g)
	Vanadium	mg/kg	6.8E+01	8.7E+01 (N)	1.2E+02 J	8.7E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	1.3E+03	2.2E+03 (G)	2.7E+03 J	2.2E+03	mg/kg	95% UCL - G	(h)

TABLE 3-3.3.RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station WH									
	Trichloroethene	mg/kg	5.3E-02	N/A (<4)	5.3E-02 J	5.3E-02	mg/kg	Max	(a)
	Benzo(a)anthracene	mg/kg	4.3E-01	N/A (<4)	5.6E-01 J	5.6E-01	mg/kg	Max	(a)
	Benzo(a)pyrene	mg/kg	1.0E+00	N/A (<4)	1.0E+00 J	1.0E+00	mg/kg	Max	(a)
	Benzo(b)fluoranthene	mg/kg	9.0E-01	N/A (<4)	1.5E+00 J	1.5E+00	mg/kg	Max	(a)
	Benzo(k)fluoranthene	mg/kg	6.9E-01	N/A (<4)	7.2E-01 J	7.2E-01	mg/kg	Max	(a)
	Dibenz(a,h)anthracene	mg/kg	3.1E-01	N/A (<4)	3.2E-01 J	3.2E-01	mg/kg	Max	(a)
	Indeno(1,2,3-cd)pyrene	mg/kg	5.2E-01	N/A (<4)	7.4E-01 J	7.4E-01	mg/kg	Max	(a)
	Phenanthrene	mg/kg	4.4E-01	N/A (<4)	5.7E-01 J	5.7E-01	mg/kg	Max	(a)
	Aroclor 1260	mg/kg	4.1E-02	N/A (<4)	5.8E-02	5.8E-02	mg/kg	Max	(a)
	Antimony	mg/kg	2.6E+01	3.5E+01 (G)	6.8E+01 J	3.5E+01	mg/kg	95% UCL - G	(h)
	Arsenic	mg/kg	3.7E+02	1.9E+03 (T)	3.2E+03	1.9E+03	mg/kg	95% UCL - T	(e)
	Barium	mg/kg	8.1E+01	9.3E+01 (N)	1.3E+02	9.3E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	6.4E+00	1.1E+01 (G)	1.5E+01 J	1.1E+01	mg/kg	95% UCL - G	(h)
	Chromium	mg/kg	4.9E+02	1.2E+03 (G)	2.1E+03	1.2E+03	mg/kg	95% UCL - G	(h)
	Copper	mg/kg	4.0E+02	1.2E+03 (T)	2.1E+03	1.2E+03	mg/kg	95% UCL - T	(e)
	Lead	mg/kg	1.5E+03	1.8E+03 (N)	2.5E+03	1.8E+03	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	2.9E+02	5.1E+02 (G)	7.8E+02	5.1E+02	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	3.0E+00	2.7E+01 (NP)	2.8E+01	2.7E+01	mg/kg	95% UCL - NP	(f)
	Nickel	mg/kg	2.4E+01	4.1E+01 (NP)	4.4E+01	4.1E+01	mg/kg	95% UCL - NP	(f)
	Thallium	mg/kg	5.6E-01	7.7E-01 (N)	1.5E+00	7.7E-01	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	7.8E+01	9.8E+01 (N)	1.6E+02	9.8E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	1.1E+03	2.3E+03 (G)	3.2E+03	2.3E+03	mg/kg	95% UCL - G	(h)
	Chromium VI	mg/kg	6.4E-01	1.5E+00 (G)	2.8E+00 J	1.5E+00	mg/kg	95% UCL - G	(h)

TABLE 3-3.3.RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station NT-1									
	Trichloroethene	mg/kg	4.8E-02	N/A (<4)	5.3E-02 J	5.3E-02	mg/kg	Max	(a)
	Benzo(a)anthracene	mg/kg	2.8E-01	5.1E-01 (N)	5.6E-01 J	5.1E-01	mg/kg	95% UCL - N	(d)
	Benzo(a)pyrene	mg/kg	4.2E-01	8.8E-01 (N)	1.0E+00 J	8.8E-01	mg/kg	95% UCL - N	(d)
	Benzo(b)fluoranthene	mg/kg	7.8E-01	1.4E+00 (N)	1.5E+00 J	1.4E+00	mg/kg	95% UCL - N	(d)
	Benzo(k)fluoranthene	mg/kg	5.6E-01	9.3E-01 (N)	9.1E-01 J	9.1E-01	mg/kg	Max	(g)
	Dibenz(a,h)anthracene	mg/kg	1.9E-01	N/A (<4)	3.2E-01 J	3.2E-01	mg/kg	Max	(a)
	Indeno(1,2,3-cd)pyrene	mg/kg	3.2E-01	1.2E+00 (G)	7.4E-01 J	7.4E-01	mg/kg	Max	(g)
	Phenanthrene	mg/kg	3.1E-01	N/A (<4)	5.7E-01 J	5.7E-01	mg/kg	Max	(a)
	Aroclor 1260	mg/kg	2.8E-02	N/A (<4)	5.8E-02	5.8E-02	mg/kg	Max	(a)
	Antimony	mg/kg	1.0E+01	1.4E+01 (G)	6.8E+01 J	1.4E+01	mg/kg	95% UCL - G	(h)
	Arsenic	mg/kg	6.4E+02	2.5E+03 (T)	4.3E+03	2.5E+03	mg/kg	95% UCL - T	(e)
	Barium	mg/kg	9.3E+01	1.1E+02 (N)	2.1E+02	1.1E+02	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	7.3E+00	8.5E+00 (N)	1.5E+01 J	8.5E+00	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	1.0E+03	1.5E+03 (G)	5.5E+03 J	1.5E+03	mg/kg	95% UCL - G	(h)
	Copper	mg/kg	6.3E+02	8.4E+02 (G)	2.1E+03	8.4E+02	mg/kg	95% UCL - G	(h)
	Lead	mg/kg	4.7E+02	5.4E+02 (N)	1.2E+03	5.4E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	8.3E+02	1.1E+03 (G)	2.0E+03	1.1E+03	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	3.2E+00	4.9E+00 (G)	2.8E+01	4.9E+00	mg/kg	95% UCL - G	(h)
	Nickel	mg/kg	2.9E+01	4.1E+01 (NP)	7.9E+01	4.1E+01	mg/kg	95% UCL - NP	(f)
	Thallium	mg/kg	2.7E+00	1.1E+01 (NP)	1.8E+01 J	1.1E+01	mg/kg	95% UCL - NP	(f)
	Vanadium	mg/kg	6.1E+01	6.9E+01 (N)	1.1E+02	6.9E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	1.4E+03	1.7E+03 (N)	3.8E+03	1.7E+03	mg/kg	95% UCL - N	(d)
	Chromium VI	mg/kg	1.4E+00	2.0E+00 (G)	7.2E+00 J	2.0E+00	mg/kg	95% UCL - G	(h)

TABLE 3-3.3.RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station NT-2									
	Trichloroethene	mg/kg	3.5E-02	N/A (<4)	5.3E-02 J	5.3E-02	mg/kg	Max	(a)
	Benzo(a)anthracene	mg/kg	2.5E-01	4.2E-01 (N)	5.6E-01 J	4.2E-01	mg/kg	95% UCL - N	(d)
	Benzo(a)pyrene	mg/kg	3.6E-01	1.0E+00 (G)	1.0E+00 J	1.0E+00	mg/kg	Max	(g)
	Benzo(b)fluoranthene	mg/kg	6.7E-01	1.1E+00 (N)	1.5E+00 J	1.1E+00	mg/kg	95% UCL - N	(d)
	Benzo(k)fluoranthene	mg/kg	4.9E-01	7.4E-01 (N)	8.0E-01 J	7.4E-01	mg/kg	95% UCL - N	(d)
	Dibenz(a,h)anthracene	mg/kg	2.4E-01	N/A (<4)	3.2E-01 J	3.2E-01	mg/kg	Max	(a)
	Indeno(1,2,3-cd)pyrene	mg/kg	2.8E-01	1.5E+00 (G)	7.4E-01 J	7.4E-01	mg/kg	Max	(g)
	Phenanthrene	mg/kg	3.3E-01	5.4E-01 (N)	5.7E-01 J	5.4E-01	mg/kg	95% UCL - N	(d)
	Aroclor 1260	mg/kg	3.5E-02	N/A (<4)	5.8E-02	5.8E-02	mg/kg	Max	(a)
	Antimony	mg/kg	9.3E+00	1.5E+01 (G)	6.8E+01 J	1.5E+01	mg/kg	95% UCL - G	(h)
	Arsenic	mg/kg	3.1E+02	1.8E+03 (NP)	3.2E+03	1.8E+03	mg/kg	95% UCL - NP	(f)
	Barium	mg/kg	7.3E+01	8.7E+01 (N)	1.8E+02	8.7E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	5.1E+00	6.3E+00 (N)	1.2E+01	6.3E+00	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	5.8E+02	9.2E+02 (G)	2.6E+03	9.2E+02	mg/kg	95% UCL - G	(h)
	Copper	mg/kg	5.1E+02	7.5E+02 (G)	2.1E+03	7.5E+02	mg/kg	95% UCL - G	(h)
	Lead	mg/kg	4.2E+02	5.2E+02 (N)	1.2E+03	5.2E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	6.5E+02	9.0E+02 (G)	1.9E+03	9.0E+02	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	2.5E+00	5.3E+00 (T)	2.8E+01	5.3E+00	mg/kg	95% UCL - T	(e)
	Nickel	mg/kg	2.6E+01	3.3E+01 (G)	7.9E+01	3.3E+01	mg/kg	95% UCL - G	(h)
	Thallium	mg/kg	4.3E-01	5.5E-01 (G)	1.4E+00	5.5E-01	mg/kg	95% UCL - G	(h)
	Vanadium	mg/kg	5.2E+01	6.6E+01 (G)	1.1E+02	6.6E+01	mg/kg	95% UCL - G	(h)
	Zinc	mg/kg	1.0E+03	1.3E+03 (N)	2.6E+03	1.3E+03	mg/kg	95% UCL - N	(d)

TABLE 3-3.3 RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station NT-3									
	Trichloroethene	mg/kg	4.8E-02	N/A (<4)	5.3E-02 J	5.3E-02	mg/kg	Max	(a)
	Benzo(a)anthracene	mg/kg	3.5E-01	N/A (<4)	5.6E-01 J	5.6E-01	mg/kg	Max	(a)
	Benzo(a)pyrene	mg/kg	5.8E-01	N/A (<4)	1.0E+00 J	1.0E+00	mg/kg	Max	(a)
	Benzo(b)fluoranthene	mg/kg	9.0E-01	N/A (<4)	1.5E+00 J	1.5E+00	mg/kg	Max	(a)
	Benzo(k)fluoranthene	mg/kg	4.6E-01	N/A (<4)	7.2E-01 J	7.2E-01	mg/kg	Max	(a)
	Dibenz(a,h)anthracene	mg/kg	1.8E-01	N/A (<4)	3.2E-01 J	3.2E-01	mg/kg	Max	(a)
	Indeno(1,2,3-cd)pyrene	mg/kg	4.4E-01	N/A (<4)	7.4E-01 J	7.4E-01	mg/kg	Max	(a)
	Phenanthrene	mg/kg	3.7E-01	N/A (<4)	5.7E-01 J	5.7E-01	mg/kg	Max	(a)
	Aroclor 1260	mg/kg	3.5E-02	N/A (<4)	5.8E-02	5.8E-02	mg/kg	Max	(a)
	Antimony	mg/kg	9.1E+00	1.5E+01 (G)	6.8E+01 J	1.5E+01	mg/kg	95% UCL - G	(h)
	Arsenic	mg/kg	2.8E+02	5.0E+02 (T)	3.2E+03	5.0E+02	mg/kg	95% UCL - T	(e)
	Barium	mg/kg	7.9E+01	9.3E+01 (N)	1.8E+02	9.3E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	5.5E+00	6.7E+00 (N)	1.2E+01	6.7E+00	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	6.3E+02	1.0E+03 (G)	2.6E+03	1.0E+03	mg/kg	95% UCL - G	(h)
	Copper	mg/kg	5.6E+02	8.3E+02 (G)	2.1E+03	8.3E+02	mg/kg	95% UCL - G	(h)
	Lead	mg/kg	4.7E+02	5.7E+02 (N)	1.2E+03	5.7E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	7.1E+02	1.0E+03 (G)	1.9E+03	1.0E+03	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	2.6E+00	5.1E+00 (T)	2.8E+01	5.1E+00	mg/kg	95% UCL - T	(e)
	Nickel	mg/kg	2.8E+01	3.6E+01 (G)	7.9E+01	3.6E+01	mg/kg	95% UCL - G	(h)
	Thallium	mg/kg	3.7E-01	5.7E-01 (NP)	7.0E-01 J	5.7E-01	mg/kg	95% UCL - NP	(f)
	Vanadium	mg/kg	5.6E+01	6.8E+01 (N)	1.1E+02	6.8E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	9.5E+02	1.2E+03 (N)	2.6E+03	1.2E+03	mg/kg	95% UCL - N	(d)

TABLE 3-3 3.RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station WG									
	Trichloroethene	mg/kg	4.2E-02	N/A (<4)	4.2E-02 J	4.2E-02	mg/kg	Max	(a)
	Benzo(a)anthracene	mg/kg	1.3E-01	N/A (<4)	1.3E-01 J	1.3E-01	mg/kg	Max	(a)
	Benzo(a)pyrene	mg/kg	1.6E-01	N/A (<4)	1.6E-01 J	1.6E-01	mg/kg	Max	(a)
	Benzo(b)fluoranthene	mg/kg	2.9E-01	N/A (<4)	2.9E-01 J	2.9E-01	mg/kg	Max	(a)
	Benzo(k)fluoranthene	mg/kg	2.0E-01	N/A (<4)	2.0E-01 J	2.0E-01	mg/kg	Max	(a)
	Dibenz(a,h)anthracene	mg/kg	4.6E-02	N/A (<4)	4.6E-02 J	4.6E-02	mg/kg	Max	(a)
	Indeno(1,2,3-cd)pyrene	mg/kg	1.4E-01	N/A (<4)	1.4E-01 J	1.4E-01	mg/kg	Max	(a)
	Phenanthrene	mg/kg	1.6E-01	N/A (<4)	1.6E-01 J	1.6E-01	mg/kg	Max	(a)
	Aroclor 1260	mg/kg	1.1E-02	N/A (<4)	1.1E-02	1.1E-02	mg/kg	Max	(a)
	Antimony	mg/kg	6.0E+00	9.2E+00 (G)	2.5E+01 J	9.2E+00	mg/kg	95% UCL - G	(h)
	Arsenic	mg/kg	1.4E+02	2.6E+02 (T)	1.5E+03 J	2.6E+02	mg/kg	95% UCL - T	(e)
	Barium	mg/kg	7.9E+01	9.4E+01 (N)	1.8E+02	9.4E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	5.2E+00	6.4E+00 (N)	1.2E+01	6.4E+00	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	5.6E+02	9.3E+02 (G)	2.6E+03	9.3E+02	mg/kg	95% UCL - G	(h)
	Copper	mg/kg	4.8E+02	6.3E+02 (N)	1.3E+03	6.3E+02	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	4.3E+02	5.2E+02 (N)	8.1E+02	5.2E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	7.0E+02	1.0E+03 (G)	1.9E+03	1.0E+03	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	1.4E+00	3.0E+00 (T)	1.2E+01 J	3.0E+00	mg/kg	95% UCL - T	(e)
	Nickel	mg/kg	2.8E+01	3.5E+01 (N)	7.9E+01	3.5E+01	mg/kg	95% UCL - N	(d)
	Thallium	mg/kg	3.6E-01	4.4E-01 (N)	7.0E-01 J	4.4E-01	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	5.4E+01	6.5E+01 (N)	1.0E+02	6.5E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	8.7E+02	1.1E+03 (N)	2.1E+03	1.1E+03	mg/kg	95% UCL - N	(d)

TABLE 3-3.3.RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station WW									
	Benzo(b)fluoranthene	mg/kg	3.3E-01	N/A (<4)	3.3E-01 J	3.3E-01	mg/kg	Max	(a)
	Benzo(k)fluoranthene	mg/kg	6.1E-01	N/A (<4)	6.1E-01 J	6.1E-01	mg/kg	Max	(a)
	Antimony	mg/kg	2.9E+01	N/A (<4)	5.7E+01 J	5.7E+01	mg/kg	Max	(a)
	Arsenic	mg/kg	4.1E+01	5.5E+01 (NP)	5.5E+01 J	5.5E+01	mg/kg	Max	(g)
	Barium	mg/kg	4.4E+02	1.5E+03 (NP)	3.4E+03	1.5E+03	mg/kg	95% UCL - NP	(f)
	Cadmium	mg/kg	4.0E+00	9.6E+00 (NP)	9.6E+00 J	9.6E+00	mg/kg	95% UCL - NP	(f)
	Chromium	mg/kg	1.2E+04	1.5E+04 (N)	2.5E+04 J	1.5E+04	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	3.5E+02	4.1E+02 (N)	6.0E+02	4.1E+02	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	3.0E+02	3.5E+02 (N)	5.0E+02 J	3.5E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	3.3E+02	4.2E+02 (N)	8.0E+02	4.2E+02	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	9.8E-01	1.2E+00 (N)	1.8E+00	1.2E+00	mg/kg	95% UCL - N	(d)
	Nickel	mg/kg	2.3E+01	2.5E+01 (N)	2.9E+01	2.5E+01	mg/kg	95% UCL - N	(d)
	Thallium	mg/kg	1.2E+00	1.5E+00 (N)	2.7E+00 J	1.5E+00	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	6.8E+01	7.6E+01 (N)	1.0E+02	7.6E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	1.2E+03	1.3E+03 (N)	1.9E+03	1.3E+03	mg/kg	95% UCL - N	(d)
	Chromium VI	mg/kg	1.6E+01	2.0E+01 (N)	3.2E+01 J	2.0E+01	mg/kg	95% UCL - N	(d)
Station JY									
	Aroclor 1254	mg/kg	9.1E-01	1.4E+00 (N)	2.6E+00	1.4E+00	mg/kg	95% UCL - N	(d)
	Aroclor 1260	mg/kg	9.9E-01	1.5E+00 (N)	2.4E+00	1.5E+00	mg/kg	95% UCL - N	(d)
	Antimony	mg/kg	5.4E+00	2.5E+01 (NP)	2.0E+01	2.0E+01	mg/kg	Max	(g)
	Arsenic	mg/kg	1.4E+02	2.8E+02 (G)	4.8E+02	2.8E+02	mg/kg	95% UCL - G	(h)
	Barium	mg/kg	1.3E+02	1.8E+02 (N)	3.5E+02 J	1.8E+02	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	1.1E+01	1.5E+01 (N)	2.1E+01	1.5E+01	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	8.4E+02	1.2E+03 (N)	1.7E+03 J	1.2E+03	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	3.8E+02	5.0E+02 (N)	7.4E+02 J	5.0E+02	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	5.2E+02	7.3E+02 (N)	1.2E+03	7.3E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	2.9E+02	3.7E+02 (N)	5.6E+02	3.7E+02	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	7.7E-01	1.8E+00 (G)	2.3E+00	1.8E+00	mg/kg	95% UCL - G	(h)
	Nickel	mg/kg	5.2E+01	7.5E+01 (N)	1.5E+02	7.5E+01	mg/kg	95% UCL - N	(d)
	Thallium	mg/kg	2.5E+00	4.0E+00 (G)	6.9E+00 J	4.0E+00	mg/kg	95% UCL - G	(h)
	Vanadium	mg/kg	4.9E+01	6.4E+01 (N)	9.1E+01	6.4E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	1.8E+03	2.4E+03 (N)	2.9E+03	2.4E+03	mg/kg	95% UCL - N	(d)
	Chromium VI	mg/kg	1.1E+00	1.5E+00 (N)	2.2E+00 J	1.5E+00	mg/kg	95% UCL - N	(d)

TABLE 3-3.3.RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station WS/WSS									
	Antimony	mg/kg	4.0E+00	4.9E+00 (N)	7.2E+00 J	4.9E+00	mg/kg	95% UCL - N	(d)
	Arsenic	mg/kg	1.7E+02	2.3E+02 (N)	3.4E+02	2.3E+02	mg/kg	95% UCL - N	(d)
	Barium	mg/kg	1.2E+02	1.4E+02 (N)	2.0E+02	1.4E+02	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	8.1E+00	1.1E+01 (N)	1.7E+01	1.1E+01	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	5.0E+02	7.3E+02 (N)	1.3E+03	7.3E+02	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	3.1E+02	4.1E+02 (N)	6.9E+02	4.1E+02	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	2.9E+02	3.7E+02 (N)	4.9E+02	3.7E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	1.0E+03	1.2E+03 (N)	1.4E+03 J	1.2E+03	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	9.8E-01	1.4E+00 (N)	1.8E+00 J	1.4E+00	mg/kg	95% UCL - N	(d)
	Nickel	mg/kg	3.0E+01	3.6E+01 (N)	4.6E+01 J	3.6E+01	mg/kg	95% UCL - N	(d)
	Thallium	mg/kg	7.6E-01	1.1E+00 (N)	2.2E+00 J	1.1E+00	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	3.7E+01	4.5E+01 (N)	5.6E+01	4.5E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	1.5E+03	2.0E+03 (N)	3.4E+03	2.0E+03	mg/kg	95% UCL - N	(d)
	Chromium VI	mg/kg	6.6E-01	9.5E-01 (N)	1.7E+00 J	9.5E-01	mg/kg	95% UCL - N	(d)
Station TT-30									
	Arsenic	mg/kg	1.1E+03	N/A (<4)	1.1E+03 J	1.1E+03	mg/kg	Max	(a)
	Barium	mg/kg	3.3E+01	N/A (<4)	3.3E+01 J	3.3E+01	mg/kg	Max	(a)
	Cadmium	mg/kg	7.1E+00	N/A (<4)	7.1E+00 J	7.1E+00	mg/kg	Max	(a)
	Chromium	mg/kg	5.3E+03	N/A (<4)	5.3E+03 J	5.3E+03	mg/kg	Max	(a)
	Copper	mg/kg	3.8E+03	N/A (<4)	3.8E+03 J	3.8E+03	mg/kg	Max	(a)
	Lead	mg/kg	4.3E+02	N/A (<4)	4.3E+02 J	4.3E+02	mg/kg	Max	(a)
	Manganese	mg/kg	2.1E+02	N/A (<4)	2.1E+02 J	2.1E+02	mg/kg	Max	(a)
	Mercury	mg/kg	8.9E+01	N/A (<4)	8.9E+01 J	8.9E+01	mg/kg	Max	(a)
	Nickel	mg/kg	8.0E+00	N/A (<4)	8.0E+00	8.0E+00	mg/kg	Max	(a)
	Thallium	mg/kg	1.5E+00	N/A (<4)	1.5E+00	1.5E+00	mg/kg	Max	(a)
	Vanadium	mg/kg	2.1E+01	N/A (<4)	2.1E+01	2.1E+01	mg/kg	Max	(a)
	Zinc	mg/kg	1.2E+03	N/A (<4)	1.2E+03	1.2E+03	mg/kg	Max	(a)
	Chromium VI	mg/kg	6.9E+00	N/A (<4)	6.9E+00 J	6.9E+00	mg/kg	Max	(a)

TABLE 3-3.3 RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station TT-31									
	Arsenic	mg/kg	1.7E+01	N/A (<4)	3.0E+01 J	3.0E+01	mg/kg	Max	(a)
	Barium	mg/kg	9.1E+01	N/A (<4)	1.6E+02 J	1.6E+02	mg/kg	Max	(a)
	Cadmium	mg/kg	4.2E+00	N/A (<4)	5.5E+00 J	5.5E+00	mg/kg	Max	(a)
	Chromium	mg/kg	1.9E+02	N/A (<4)	3.0E+02 J	3.0E+02	mg/kg	Max	(a)
	Copper	mg/kg	1.1E+02	N/A (<4)	1.8E+02 J	1.8E+02	mg/kg	Max	(a)
	Lead	mg/kg	2.8E+02	N/A (<4)	3.3E+02 J	3.3E+02	mg/kg	Max	(a)
	Manganese	mg/kg	5.9E+02	N/A (<4)	1.2E+03 J	1.2E+03	mg/kg	Max	(a)
	Mercury	mg/kg	1.4E+00	N/A (<4)	1.8E+00 J	1.8E+00	mg/kg	Max	(a)
	Nickel	mg/kg	2.6E+01	N/A (<4)	3.6E+01	3.6E+01	mg/kg	Max	(a)
	Vanadium	mg/kg	4.6E+01	N/A (<4)	5.7E+01 J	5.7E+01	mg/kg	Max	(a)
	Zinc	mg/kg	4.6E+02	N/A (<4)	6.8E+02	6.8E+02	mg/kg	Max	(a)
Station CB-01									
	Antimony	mg/kg	1.2E+00	2.0E+00 (G)	4.0E+00 J	2.0E+00	mg/kg	95% UCL - G	(h)
	Arsenic	mg/kg	4.1E+01	5.8E+01 (N)	9.9E+01 J	5.8E+01	mg/kg	95% UCL - N	(d)
	Barium	mg/kg	4.0E+01	5.9E+01 (N)	1.1E+02	5.9E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	5.2E+00	9.3E+00 (G)	1.6E+01 J	9.3E+00	mg/kg	95% UCL - G	(h)
	Chromium	mg/kg	2.2E+02	3.3E+02 (N)	5.8E+02	3.3E+02	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	3.9E+02	7.5E+02 (G)	1.1E+03 J	7.5E+02	mg/kg	95% UCL - G	(h)
	Lead	mg/kg	3.2E+02	4.4E+02 (N)	6.5E+02 J	4.4E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	3.4E+02	6.9E+02 (G)	1.3E+03 J	6.9E+02	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	1.5E+00	2.9E+00 (G)	4.8E+00 J	2.9E+00	mg/kg	95% UCL - G	(h)
	Nickel	mg/kg	9.2E+00	2.0E+01 (NP)	3.2E+01 J	2.0E+01	mg/kg	95% UCL - NP	(f)
	Thallium	mg/kg	1.0E+00	2.5E+00 (T)	3.1E+00	2.5E+00	mg/kg	95% UCL - T	(e)
	Vanadium	mg/kg	5.4E+01	7.9E+01 (G)	1.1E+02	7.9E+01	mg/kg	95% UCL - G	(h)
	Zinc	mg/kg	4.2E+02	6.4E+02 (N)	1.2E+03	6.4E+02	mg/kg	95% UCL - N	(d)

TABLE 3-3.3.RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station CB-02									
	Antimony	mg/kg	1.5E+00	1.8E+00 (N)	2.0E+00 J	1.8E+00	mg/kg	95% UCL - N	(d)
	Arsenic	mg/kg	2.7E+01	4.1E+01 (G)	5.6E+01 J	4.1E+01	mg/kg	95% UCL - G	(h)
	Barium	mg/kg	7.9E+01	1.7E+02 (T)	3.9E+02	1.7E+02	mg/kg	95% UCL - T	(e)
	Cadmium	mg/kg	3.1E+00	3.8E+00 (N)	5.8E+00 J	3.8E+00	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	1.1E+02	1.4E+02 (N)	2.5E+02 J	1.4E+02	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	7.5E+01	9.8E+01 (G)	1.7E+02	9.8E+01	mg/kg	95% UCL - G	(h)
	Lead	mg/kg	1.2E+02	2.4E+02 (NP)	3.4E+02 J	2.4E+02	mg/kg	95% UCL - NP	(f)
	Manganese	mg/kg	5.6E+01	7.2E+01 (G)	1.1E+02 J	7.2E+01	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	2.4E-01	3.3E-01 (G)	5.8E-01	3.3E-01	mg/kg	95% UCL - G	(h)
	Nickel	mg/kg	8.3E+00	1.0E+01 (N)	1.3E+01 J	1.0E+01	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	2.7E+01	3.2E+01 (N)	4.6E+01	3.2E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	2.5E+02	3.1E+02 (N)	4.5E+02 J	3.1E+02	mg/kg	95% UCL - N	(d)
Station CB-03									
	Antimony	mg/kg	1.5E+00	6.8E+00 (NP)	4.8E+00 J	4.8E+00	mg/kg	Max	(g)
	Arsenic	mg/kg	2.7E+02	5.9E+02 (G)	1.4E+03	5.9E+02	mg/kg	95% UCL - G	(h)
	Barium	mg/kg	5.2E+01	6.7E+01 (N)	9.6E+01	6.7E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	7.4E+00	1.3E+01 (G)	2.3E+01 J	1.3E+01	mg/kg	95% UCL - G	(h)
	Chromium	mg/kg	4.6E+02	1.3E+03 (NP)	7.7E+02	7.7E+02	mg/kg	Max	(g)
	Copper	mg/kg	2.7E+02	3.8E+02 (N)	6.7E+02 J	3.8E+02	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	2.0E+02	2.7E+02 (N)	4.4E+02 J	2.7E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	2.8E+02	4.6E+02 (G)	9.9E+02	4.6E+02	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	1.2E+00	2.5E+00 (G)	3.6E+00	2.5E+00	mg/kg	95% UCL - G	(h)
	Nickel	mg/kg	2.6E+01	3.7E+01 (G)	7.8E+01 J	3.7E+01	mg/kg	95% UCL - G	(h)
	Thallium	mg/kg	7.1E-01	9.7E-01 (N)	1.5E+00 J	9.7E-01	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	4.7E+01	6.2E+01 (N)	9.7E+01 J	6.2E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	1.1E+03	2.1E+03 (G)	5.3E+03	2.1E+03	mg/kg	95% UCL - G	(h)

TABLE 3-3.3.RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station CB-04									
	Antimony	mg/kg	3.6E+00	4.8E+00 (N)	7.2E+00	4.8E+00	mg/kg	95% UCL - N	(d)
	Arsenic	mg/kg	1.1E+02	1.8E+02 (G)	3.3E+02	1.8E+02	mg/kg	95% UCL - G	(h)
	Barium	mg/kg	6.1E+01	7.7E+01 (N)	1.1E+02	7.7E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	4.0E+00	5.7E+00 (N)	8.9E+00	5.7E+00	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	1.7E+02	2.7E+02 (G)	5.7E+02	2.7E+02	mg/kg	95% UCL - G	(h)
	Copper	mg/kg	1.8E+02	2.4E+02 (N)	3.6E+02	2.4E+02	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	2.1E+02	2.8E+02 (N)	4.1E+02	2.8E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	4.0E+02	1.4E+03 (NP)	2.4E+03	1.4E+03	mg/kg	95% UCL - NP	(f)
	Mercury	mg/kg	7.3E-01	1.2E+00 (G)	2.2E+00	1.2E+00	mg/kg	95% UCL - G	(h)
	Nickel	mg/kg	4.1E+01	7.7E+01 (G)	1.8E+02	7.7E+01	mg/kg	95% UCL - G	(h)
	Thallium	mg/kg	1.1E+00	6.5E+00 (NP)	5.3E+00	5.3E+00	mg/kg	Max	(g)
	Vanadium	mg/kg	5.5E+01	6.8E+01 (N)	8.5E+01	6.8E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	1.4E+03	3.1E+03 (T)	8.8E+03	3.1E+03	mg/kg	95% UCL - T	(e)
Station CB-06									
	Antimony	mg/kg	1.7E+00	4.7E+00 (NP)	7.8E+00	4.7E+00	mg/kg	95% UCL - NP	(f)
	Arsenic	mg/kg	9.8E+01	1.4E+02 (N)	2.6E+02 J	1.4E+02	mg/kg	95% UCL - N	(d)
	Barium	mg/kg	4.0E+01	5.1E+01 (N)	6.0E+01	5.1E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	8.6E+00	1.7E+01 (G)	3.5E+01	1.7E+01	mg/kg	95% UCL - G	(h)
	Chromium	mg/kg	2.8E+02	5.0E+02 (G)	9.7E+02	5.0E+02	mg/kg	95% UCL - G	(h)
	Copper	mg/kg	1.8E+02	2.4E+02 (N)	3.9E+02	2.4E+02	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	1.4E+02	1.9E+02 (N)	3.3E+02	1.9E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	7.9E+01	9.4E+01 (N)	1.3E+02 J	9.4E+01	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	2.3E-01	3.4E-01 (N)	5.6E-01	3.4E-01	mg/kg	95% UCL - N	(d)
	Nickel	mg/kg	1.9E+01	2.8E+01 (G)	4.9E+01	2.8E+01	mg/kg	95% UCL - G	(h)
	Thallium	mg/kg	3.2E+00	4.1E+00 (N)	6.1E+00	4.1E+00	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	5.3E+01	7.2E+01 (N)	1.0E+02	7.2E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	1.4E+03	2.1E+03 (N)	3.8E+03 J	2.1E+03	mg/kg	95% UCL - N	(d)
	Chromium VI	mg/kg	3.6E-01	6.5E-01 (G)	1.3E+00 J	6.5E-01	mg/kg	95% UCL - G	(h)

TABLE 3-3.3.RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station CB-07									
	Arsenic	mg/kg	9.1E+01	2.1E+02 (N)	2.3E+02 J	2.1E+02	mg/kg	95% UCL - N	(d)
	Barium	mg/kg	3.2E+01	5.6E+01 (N)	5.7E+01	5.6E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	2.0E+00	4.9E+00 (N)	5.6E+00	4.9E+00	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	3.3E+02	7.1E+02 (N)	7.8E+02	7.1E+02	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	1.6E+02	8.7E+02 (G)	4.4E+02	4.4E+02	mg/kg	Max	(g)
	Lead	mg/kg	1.5E+02	3.4E+02 (N)	3.8E+02	3.4E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	3.3E+02	6.7E+02 (N)	6.5E+02 J	6.5E+02	mg/kg	Max	(g)
	Mercury	mg/kg	5.6E-01	1.3E+00 (N)	1.4E+00	1.3E+00	mg/kg	95% UCL - N	(d)
	Nickel	mg/kg	1.4E+01	2.2E+01 (N)	2.3E+01	2.2E+01	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	4.7E+01	9.2E+01 (N)	1.0E+02	9.2E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	3.0E+02	6.2E+02 (N)	6.7E+02 J	6.2E+02	mg/kg	95% UCL - N	(d)
Station 16/TT-33									
	Benzo(a)anthracene	mg/kg	2.4E-01	3.9E-01 (N)	1.1E-01 J	1.1E-01	mg/kg	Max	(g)
	Benzo(a)pyrene	mg/kg	2.5E-01	3.9E-01 (N)	1.4E-01 J	1.4E-01	mg/kg	Max	(g)
	Benzo(b)fluoranthene	mg/kg	2.3E-01	4.2E-01 (N)	2.6E-01	2.6E-01	mg/kg	Max	(g)
	Benzo(k)fluoranthene	mg/kg	1.9E-01	3.9E-01 (N)	9.9E-02 J	9.9E-02	mg/kg	Max	(g)
	Indeno(1,2,3-cd)pyrene	mg/kg	2.3E-01	4.0E-01 (N)	6.0E-02 J	6.0E-02	mg/kg	Max	(g)
	Phenanthrene	mg/kg	2.4E-01	3.9E-01 (N)	1.3E-01 J	1.3E-01	mg/kg	Max	(g)
	Antimony	mg/kg	3.4E+00	5.9E+00 (N)	9.1E+00 J	5.9E+00	mg/kg	95% UCL - N	(d)
	Arsenic	mg/kg	1.4E+02	2.4E+02 (N)	2.9E+02 J	2.4E+02	mg/kg	95% UCL - N	(d)
	Barium	mg/kg	4.2E+01	6.2E+01 (N)	7.8E+01	6.2E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	3.3E+00	5.6E+00 (N)	7.4E+00 J	5.6E+00	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	5.7E+02	4.2E+03 (G)	2.2E+03 J	2.2E+03	mg/kg	Max	(g)
	Copper	mg/kg	2.4E+02	4.0E+02 (N)	4.9E+02 J	4.0E+02	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	1.2E+02	2.0E+02 (N)	2.9E+02 J	2.0E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	3.9E+02	8.8E+02 (G)	7.8E+02	7.8E+02	mg/kg	Max	(g)
	Mercury	mg/kg	1.9E+00	3.4E+00 (N)	5.6E+00 J	3.4E+00	mg/kg	95% UCL - N	(d)
	Nickel	mg/kg	1.0E+01	1.5E+01 (N)	2.2E+01	1.5E+01	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	2.0E+01	3.1E+01 (N)	4.2E+01	3.1E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	5.8E+02	9.3E+02 (N)	1.1E+03 J	9.3E+02	mg/kg	95% UCL - N	(d)
	Chromium VI	mg/kg	7.4E-01	5.4E+00 (G)	2.9E+00 J	2.9E+00	mg/kg	Max	(g)

TABLE 3-3.3 RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station 09										
	Benzo(a)anthracene	mg/kg	2.1E-01	4.8E-01 (T)	1.0E+00		4.8E-01	mg/kg	95% UCL - T	(e)
	Benzo(a)pyrene	mg/kg	2.1E-01	5.0E-01 (T)	1.1E+00		5.0E-01	mg/kg	95% UCL - T	(e)
	Benzo(b)fluoranthene	mg/kg	4.0E-01	1.3E+00 (NP)	2.3E+00		1.3E+00	mg/kg	95% UCL - NP	(f)
	Benzo(k)fluoranthene	mg/kg	3.6E-01	1.2E+00 (NP)	2.1E+00		1.2E+00	mg/kg	95% UCL - NP	(f)
	Dibenz(a,h)anthracene	mg/kg	2.1E-01	2.3E-01 (NP)	8.0E-02	J	8.0E-02	mg/kg	Max	(g)
	Indeno(1,2,3-cd)pyrene	mg/kg	1.9E-01	2.5E-01 (N)	3.7E-01	J	2.5E-01	mg/kg	95% UCL - N	(d)
	Phenanthrene	mg/kg	3.1E-01	2.1E+00 (NP)	1.9E+00		1.9E+00	mg/kg	Max	(g)
	Antimony	mg/kg	8.1E-01	1.0E+00 (N)	1.3E+00		1.0E+00	mg/kg	95% UCL - N	(d)
	Arsenic	mg/kg	2.9E+01	3.5E+01 (N)	4.9E+01	J	3.5E+01	mg/kg	95% UCL - N	(d)
	Barium	mg/kg	2.1E+01	3.3E+01 (G)	7.4E+01		3.3E+01	mg/kg	95% UCL - G	(h)
	Cadmium	mg/kg	4.9E-01	6.8E-01 (G)	1.2E+00	J	6.8E-01	mg/kg	95% UCL - G	(h)
	Chromium	mg/kg	4.5E+01	5.9E+01 (N)	9.2E+01	J	5.9E+01	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	4.7E+01	6.3E+01 (N)	1.0E+02	J	6.3E+01	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	3.0E+01	4.4E+01 (N)	8.7E+01		4.4E+01	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	3.6E+02	2.9E+03 (NP)	2.6E+03	J	2.6E+03	mg/kg	Max	(g)
	Mercury	mg/kg	2.6E-01	3.9E-01 (N)	6.8E-01	J	3.9E-01	mg/kg	95% UCL - N	(d)
	Nickel	mg/kg	8.0E+00	9.7E+00 (G)	1.3E+01		9.7E+00	mg/kg	95% UCL - G	(h)
	Thallium	mg/kg	9.2E-01	1.3E+00 (N)	2.4E+00		1.3E+00	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	1.1E+01	1.4E+01 (N)	1.9E+01		1.4E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	1.6E+02	2.4E+02 (G)	4.8E+02	J	2.4E+02	mg/kg	95% UCL - G	(h)
Station AM										
	Antimony	mg/kg	2.0E+00	N/A (<4)	2.0E+00	J	2.0E+00	mg/kg	Max	(a)
	Arsenic	mg/kg	1.2E+02	N/A (<4)	1.2E+02		1.2E+02	mg/kg	Max	(a)
	Barium	mg/kg	5.8E+01	N/A (<4)	5.8E+01		5.8E+01	mg/kg	Max	(a)
	Cadmium	mg/kg	3.9E+00	N/A (<4)	3.9E+00		3.9E+00	mg/kg	Max	(a)
	Chromium	mg/kg	3.2E+02	N/A (<4)	3.2E+02		3.2E+02	mg/kg	Max	(a)
	Copper	mg/kg	2.0E+02	N/A (<4)	2.0E+02		2.0E+02	mg/kg	Max	(a)
	Lead	mg/kg	1.5E+02	N/A (<4)	1.5E+02		1.5E+02	mg/kg	Max	(a)
	Manganese	mg/kg	1.1E+03	N/A (<4)	1.1E+03	J	1.1E+03	mg/kg	Max	(a)
	Mercury	mg/kg	1.9E+00	N/A (<4)	1.9E+00		1.9E+00	mg/kg	Max	(a)
	Nickel	mg/kg	1.8E+01	N/A (<4)	1.8E+01	J	1.8E+01	mg/kg	Max	(a)
	Thallium	mg/kg	4.4E-01	N/A (<4)	4.4E-01	J	4.4E-01	mg/kg	Max	(a)
	Vanadium	mg/kg	2.7E+01	N/A (<4)	2.7E+01		2.7E+01	mg/kg	Max	(a)
	Zinc	mg/kg	9.4E+02	N/A (<4)	9.4E+02		9.4E+02	mg/kg	Max	(a)

TABLE 3-3.3 RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station KF									
	Arsenic	mg/kg	3.8E+01	5.2E+01 (N)	9.0E+01	5.2E+01	mg/kg	95% UCL - N	(d)
	Barium	mg/kg	3.3E+01	4.1E+01 (N)	5.5E+01	4.1E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	5.6E-01	1.0E+00 (G)	1.1E+00	1.0E+00	mg/kg	95% UCL - G	(h)
	Chromium	mg/kg	6.7E+01	8.8E+01 (N)	1.1E+02	8.8E+01	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	7.9E+01	1.1E+02 (N)	1.9E+02	1.1E+02	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	9.7E+01	1.3E+02 (N)	1.9E+02	1.3E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	2.9E+02	3.6E+02 (N)	5.0E+02	3.6E+02	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	5.1E-01	8.9E-01 (G)	1.6E+00 J	8.9E-01	mg/kg	95% UCL - G	(h)
	Nickel	mg/kg	6.7E+00	9.0E+00 (N)	1.3E+01	9.0E+00	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	1.9E+01	2.3E+01 (N)	3.0E+01	2.3E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	2.8E+02	3.5E+02 (N)	4.6E+02	3.5E+02	mg/kg	95% UCL - N	(d)
Station 08									
	Benzo(a)anthracene	mg/kg	4.8E-01	N/A (<4)	6.8E-01	6.8E-01	mg/kg	Max	(a)
	Benzo(a)pyrene	mg/kg	6.3E-01	N/A (<4)	9.4E-01	9.4E-01	mg/kg	Max	(a)
	Benzo(b)fluoranthene	mg/kg	1.3E+00	N/A (<4)	1.9E+00	1.9E+00	mg/kg	Max	(a)
	Benzo(k)fluoranthene	mg/kg	1.4E+00	N/A (<4)	2.0E+00	2.0E+00	mg/kg	Max	(a)
	Dibenz(a,h)anthracene	mg/kg	9.3E-02	N/A (<4)	1.6E-01 J	1.6E-01	mg/kg	Max	(a)
	Indeno(1,2,3-cd)pyrene	mg/kg	4.0E-01	N/A (<4)	6.8E-01	6.8E-01	mg/kg	Max	(a)
	Phenanthrene	mg/kg	4.8E-01	N/A (<4)	6.1E-01	6.1E-01	mg/kg	Max	(a)
	Antimony	mg/kg	1.0E+00	N/A (<4)	1.6E+00	1.6E+00	mg/kg	Max	(a)
	Arsenic	mg/kg	1.9E+01	N/A (<4)	2.9E+01 J	2.9E+01	mg/kg	Max	(a)
	Barium	mg/kg	1.9E+01	N/A (<4)	2.1E+01	2.1E+01	mg/kg	Max	(a)
	Chromium	mg/kg	5.4E+01	N/A (<4)	1.2E+02 J	1.2E+02	mg/kg	Max	(a)
	Copper	mg/kg	7.4E+01	N/A (<4)	1.3E+02 J	1.3E+02	mg/kg	Max	(a)
	Lead	mg/kg	4.3E+01	N/A (<4)	7.1E+01	7.1E+01	mg/kg	Max	(a)
	Manganese	mg/kg	1.6E+02	N/A (<4)	2.3E+02 J	2.3E+02	mg/kg	Max	(a)
	Mercury	mg/kg	4.6E-01	N/A (<4)	1.0E+00 J	1.0E+00	mg/kg	Max	(a)
	Nickel	mg/kg	1.2E+01	N/A (<4)	2.0E+01	2.0E+01	mg/kg	Max	(a)
	Thallium	mg/kg	1.4E+00	N/A (<4)	1.7E+00	1.7E+00	mg/kg	Max	(a)
	Vanadium	mg/kg	1.5E+01	N/A (<4)	1.8E+01	1.8E+01	mg/kg	Max	(a)
	Zinc	mg/kg	3.5E+02	N/A (<4)	5.4E+02 J	5.4E+02	mg/kg	Max	(a)

TABLE 3-3.3.RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station 07/DP									
	Trichloroethene	mg/kg	1.5E-02	2.2E-02 (G)	3.5E-02 J	2.2E-02	mg/kg	95% UCL - G	(h)
	Benzo(a)anthracene	mg/kg	3.8E+00	5.6E+00 (N)	9.6E+00	5.6E+00	mg/kg	95% UCL - N	(d)
	Benzo(a)pyrene	mg/kg	3.8E+00	5.5E+00 (N)	1.0E+01	5.5E+00	mg/kg	95% UCL - N	(d)
	Benzo(b)fluoranthene	mg/kg	6.6E+00	9.5E+00 (N)	1.6E+01 J	9.5E+00	mg/kg	95% UCL - N	(d)
	Benzo(k)fluoranthene	mg/kg	5.0E+00	9.2E+00 (G)	1.4E+01 J	9.2E+00	mg/kg	95% UCL - G	(h)
	Dibenz(a,h)anthracene	mg/kg	5.5E-01	1.1E+00 (G)	2.0E+00	1.1E+00	mg/kg	95% UCL - G	(h)
	Indeno(1,2,3-cd)pyrene	mg/kg	1.9E+00	3.9E+00 (G)	6.9E+00	3.9E+00	mg/kg	95% UCL - G	(h)
	Phenanthrene	mg/kg	3.7E+00	6.8E+00 (G)	1.2E+01	6.8E+00	mg/kg	95% UCL - G	(h)
	Aroclor 1260	mg/kg	5.1E-02	6.6E-02 (N)	7.4E-02	6.6E-02	mg/kg	95% UCL - N	(d)
	Antimony	mg/kg	1.9E+00	2.3E+00 (N)	3.1E+00	2.3E+00	mg/kg	95% UCL - N	(d)
	Arsenic	mg/kg	5.7E+01	8.0E+01 (N)	1.3E+02 J	8.0E+01	mg/kg	95% UCL - N	(d)
	Barium	mg/kg	6.4E+01	8.4E+01 (N)	1.2E+02	8.4E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	3.3E+00	5.1E+00 (N)	1.0E+01	5.1E+00	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	1.8E+02	2.5E+02 (N)	4.4E+02 J	2.5E+02	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	1.6E+02	2.3E+02 (N)	3.8E+02 J	2.3E+02	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	2.5E+02	3.5E+02 (N)	4.8E+02	3.5E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	3.2E+02	4.2E+02 (N)	6.0E+02 J	4.2E+02	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	1.4E+00	2.8E+00 (G)	5.7E+00 J	2.8E+00	mg/kg	95% UCL - G	(h)
	Nickel	mg/kg	2.2E+01	2.7E+01 (N)	3.8E+01	2.7E+01	mg/kg	95% UCL - N	(d)
	Thallium	mg/kg	1.6E+00	2.2E+00 (N)	3.8E+00	2.2E+00	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	4.0E+01	5.2E+01 (N)	7.9E+01	5.2E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	9.3E+02	1.3E+03 (N)	2.5E+03 J	1.3E+03	mg/kg	95% UCL - N	(d)

TABLE 3-3.3.RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station LP									
	Antimony	mg/kg	1.2E+00	1.7E+00 (NP)	5.1E+00 J	1.7E+00	mg/kg	95% UCL - NP	(f)
	Arsenic	mg/kg	7.0E+01	1.5E+02 (T)	4.9E+02 J	1.5E+02	mg/kg	95% UCL - T	(e)
	Barium	mg/kg	3.0E+01	3.7E+01 (N)	6.9E+01	3.7E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	1.9E+00	2.6E+00 (N)	5.6E+00 J	2.6E+00	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	5.2E+01	7.7E+01 (G)	1.3E+02	7.7E+01	mg/kg	95% UCL - G	(h)
	Copper	mg/kg	1.9E+02	3.7E+02 (G)	1.6E+03 J	3.7E+02	mg/kg	95% UCL - G	(h)
	Lead	mg/kg	8.3E+01	1.4E+02 (G)	4.0E+02 J	1.4E+02	mg/kg	95% UCL - G	(h)
	Manganese	mg/kg	1.7E+02	2.1E+02 (N)	3.3E+02	2.1E+02	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	4.6E-01	7.3E-01 (G)	1.4E+00	7.3E-01	mg/kg	95% UCL - G	(h)
	Nickel	mg/kg	9.7E+00	1.4E+01 (G)	3.1E+01	1.4E+01	mg/kg	95% UCL - G	(h)
	Thallium	mg/kg	1.6E+00	1.9E+00 (N)	2.9E+00 J	1.9E+00	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	1.6E+01	2.1E+01 (G)	4.0E+01	2.1E+01	mg/kg	95% UCL - G	(h)
	Zinc	mg/kg	7.0E+02	1.3E+03 (G)	2.8E+03	1.3E+03	mg/kg	95% UCL - G	(h)
Station AS									
	Antimony	mg/kg	2.5E+00	N/A (<4)	2.9E+00 J	2.9E+00	mg/kg	Max	(a)
	Arsenic	mg/kg	1.2E+02	N/A (<4)	1.2E+02	1.2E+02	mg/kg	Max	(a)
	Barium	mg/kg	1.0E+02	N/A (<4)	1.1E+02	1.1E+02	mg/kg	Max	(a)
	Cadmium	mg/kg	1.2E+01	N/A (<4)	1.3E+01	1.3E+01	mg/kg	Max	(a)
	Chromium	mg/kg	7.5E+02	N/A (<4)	9.2E+02	9.2E+02	mg/kg	Max	(a)
	Copper	mg/kg	5.1E+02	N/A (<4)	5.8E+02	5.8E+02	mg/kg	Max	(a)
	Lead	mg/kg	5.7E+02	N/A (<4)	6.6E+02	6.6E+02	mg/kg	Max	(a)
	Manganese	mg/kg	3.8E+02	N/A (<4)	3.8E+02 J	3.8E+02	mg/kg	Max	(a)
	Mercury	mg/kg	3.1E+00	N/A (<4)	3.1E+00	3.1E+00	mg/kg	Max	(a)
	Nickel	mg/kg	3.7E+01	N/A (<4)	3.9E+01 J	3.9E+01	mg/kg	Max	(a)
	Thallium	mg/kg	1.1E+00	N/A (<4)	1.2E+00 J	1.2E+00	mg/kg	Max	(a)
	Vanadium	mg/kg	6.6E+01	N/A (<4)	7.3E+01	7.3E+01	mg/kg	Max	(a)
	Zinc	mg/kg	2.2E+03	N/A (<4)	2.3E+03	2.3E+03	mg/kg	Max	(a)

TABLE 3-3.3.RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station 05									
	Benzo(a)anthracene	mg/kg	4.3E-01	N/A (<4)	2.3E+00 J	2.3E+00	mg/kg	Max	(a)
	Benzo(a)pyrene	mg/kg	3.5E-01	N/A (<4)	2.5E+00 J	2.5E+00	mg/kg	Max	(a)
	Benzo(b)fluoranthene	mg/kg	3.5E-01	N/A (<4)	3.0E+00 J	3.0E+00	mg/kg	Max	(a)
	Benzo(k)fluoranthene	mg/kg	2.5E-01	N/A (<4)	1.9E+00 J	1.9E+00	mg/kg	Max	(a)
	Indeno(1,2,3-cd)pyrene	mg/kg	1.7E-01	N/A (<4)	1.2E+00 J	1.2E+00	mg/kg	Max	(a)
	Phenanthrene	mg/kg	6.8E-01	N/A (<4)	2.2E+00 J	2.2E+00	mg/kg	Max	(a)
	Antimony	mg/kg	9.4E-01	N/A (<4)	1.8E+00 J	1.8E+00	mg/kg	Max	(a)
	Arsenic	mg/kg	8.3E+00	N/A (<4)	2.5E+01	2.5E+01	mg/kg	Max	(a)
	Barium	mg/kg	3.5E+01	N/A (<4)	4.3E+01	4.3E+01	mg/kg	Max	(a)
	Cadmium	mg/kg	2.2E-01	N/A (<4)	1.6E+00	1.6E+00	mg/kg	Max	(a)
	Chromium	mg/kg	3.4E+01	N/A (<4)	1.5E+02	1.5E+02	mg/kg	Max	(a)
	Copper	mg/kg	2.5E+01	N/A (<4)	8.0E+01	8.0E+01	mg/kg	Max	(a)
	Lead	mg/kg	2.7E+02	N/A (<4)	1.5E+02	1.5E+02	mg/kg	Max	(a)
	Manganese	mg/kg	4.2E+02	N/A (<4)	9.5E+02	9.5E+02	mg/kg	Max	(a)
	Mercury	mg/kg	9.0E-02	N/A (<4)	1.2E+00 J	1.2E+00	mg/kg	Max	(a)
	Nickel	mg/kg	1.0E+01	N/A (<4)	1.1E+01	1.1E+01	mg/kg	Max	(a)
	Thallium	mg/kg	6.1E-01	N/A (<4)	9.7E-01	9.7E-01	mg/kg	Max	(a)
	Vanadium	mg/kg	1.9E+01	N/A (<4)	1.9E+01	1.9E+01	mg/kg	Max	(a)
	Zinc	mg/kg	1.2E+02	N/A (<4)	5.7E+02	5.7E+02	mg/kg	Max	(a)

TABLE 3-3 3 RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station 03									
	Benzo(a)anthracene	mg/kg	5.7E-01	N/A (<4)	1.3E+00	1.3E+00	mg/kg	Max	(a)
	Benzo(a)pyrene	mg/kg	4.7E-01	N/A (<4)	1.0E+00	1.0E+00	mg/kg	Max	(a)
	Benzo(b)fluoranthene	mg/kg	6.0E-01	N/A (<4)	1.4E+00	1.4E+00	mg/kg	Max	(a)
	Benzo(k)fluoranthene	mg/kg	3.5E-01	N/A (<4)	6.4E-01	6.4E-01	mg/kg	Max	(a)
	Dibenz(a,h)anthracene	mg/kg	1.7E-01	N/A (<4)	1.1E-01	1.1E-01	mg/kg	Max	(a)
	Indeno(1,2,3-cd)pyrene	mg/kg	3.4E-01	N/A (<4)	6.2E-01	6.2E-01	mg/kg	Max	(a)
	Phenanthrene	mg/kg	4.7E-01	N/A (<4)	1.0E+00	1.0E+00	mg/kg	Max	(a)
	Aroclor 1260	mg/kg	5.0E-02	N/A (<4)	1.1E-01	1.1E-01	mg/kg	Max	(a)
	Antimony	mg/kg	8.0E-01	N/A (<4)	1.7E+00 J	1.7E+00	mg/kg	Max	(a)
	Arsenic	mg/kg	3.3E+01	N/A (<4)	8.7E+01	8.7E+01	mg/kg	Max	(a)
	Barium	mg/kg	3.5E+01	N/A (<4)	8.5E+01	8.5E+01	mg/kg	Max	(a)
	Cadmium	mg/kg	1.7E+00	N/A (<4)	5.2E+00	5.2E+00	mg/kg	Max	(a)
	Chromium	mg/kg	7.3E+01	N/A (<4)	2.0E+02 J	2.0E+02	mg/kg	Max	(a)
	Copper	mg/kg	6.2E+01	N/A (<4)	1.7E+02	1.7E+02	mg/kg	Max	(a)
	Lead	mg/kg	1.2E+02	N/A (<4)	3.5E+02 J	3.5E+02	mg/kg	Max	(a)
	Manganese	mg/kg	2.1E+02	N/A (<4)	5.0E+02	5.0E+02	mg/kg	Max	(a)
	Mercury	mg/kg	2.6E-01	N/A (<4)	7.1E-01	7.1E-01	mg/kg	Max	(a)
	Nickel	mg/kg	1.2E+01	N/A (<4)	2.7E+01 J	2.7E+01	mg/kg	Max	(a)
	Vanadium	mg/kg	2.2E+01	N/A (<4)	4.9E+01	4.9E+01	mg/kg	Max	(a)
	Zinc	mg/kg	5.2E+02	N/A (<4)	1.4E+03 J	1.4E+03	mg/kg	Max	(a)

TABLE 3-3.3 RME

EXPOSURE POINT CONCENTRATION SUMMARY

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

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)
Station 01									
	Benzo(a)anthracene	mg/kg	1.9E-01	2.5E-01 (N)	2.5E-01 J	2.5E-01	mg/kg	Max	(g)
	Benzo(a)pyrene	mg/kg	1.7E-01	2.4E-01 (NP)	2.1E-01 J	2.1E-01	mg/kg	Max	(g)
	Benzo(b)fluoranthene	mg/kg	1.7E-01	2.2E-01 (N)	1.7E-01 J	1.7E-01	mg/kg	Max	(g)
	Benzo(k)fluoranthene	mg/kg	1.8E-01	2.4E-01 (NP)	2.1E-01 J	2.1E-01	mg/kg	Max	(g)
	Indeno(1,2,3-cd)pyrene	mg/kg	1.8E-01	2.2E-01 (N)	1.2E-01 J	1.2E-01	mg/kg	Max	(g)
	Phenanthrene	mg/kg	3.0E-01	4.6E-01 (N)	5.0E-01 J	4.6E-01	mg/kg	95% UCL - N	(d)
	Antimony	mg/kg	4.9E-01	8.8E-01 (N)	9.4E-01 J	8.8E-01	mg/kg	95% UCL - N	(d)
	Arsenic	mg/kg	4.6E+00	6.2E+00 (N)	6.2E+00	6.2E+00	mg/kg	95% UCL - N	(d)
	Barium	mg/kg	1.1E+01	1.2E+01 (N)	1.3E+01	1.2E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	7.8E-02	1.7E-01 (N)	1.8E-01	1.7E-01	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	8.3E+00	1.0E+01 (N)	9.8E+00	9.8E+00	mg/kg	Max	(g)
	Copper	mg/kg	1.2E+01	1.7E+01 (N)	1.7E+01	1.7E+01	mg/kg	Max	(g)
	Lead	mg/kg	1.9E+01	3.6E+01 (N)	4.0E+01 J	3.6E+01	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	8.2E+01	1.0E+02 (N)	1.0E+02	1.0E+02	mg/kg	Max	(g)
	Nickel	mg/kg	6.4E+00	7.6E+00 (N)	7.2E+00	7.2E+00	mg/kg	Max	(g)
	Thallium	mg/kg	4.0E-01	5.2E-01 (N)	5.4E-01	5.2E-01	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	9.6E+00	1.2E+01 (N)	1.2E+01	1.2E+01	mg/kg	Max	(g)
	Zinc	mg/kg	1.0E+02	1.6E+02 (N)	1.5E+02	1.5E+02	mg/kg	Max	(g)

(1) Refer to Appendix C.1 for station sample groupings; only COPCs selected on Table 3-2.2 and detected at each station 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.

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 3.CT
EXPOSURE POINT CONCENTRATION SUMMARY
CENTRAL TENDENCY EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station NR									
	Arsenic	mg/kg	1.7E+02	2.1E+02 (N)	2.2E+02	2.1E+02	mg/kg	95% UCL - N	(d)
	Barium	mg/kg	4.1E+01	5.6E+01 (N)	6.6E+01	5.6E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	1.3E+00	2.2E+00 (N)	2.7E+00	2.2E+00	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	1.9E+02	2.5E+02 (N)	2.6E+02	2.5E+02	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	2.0E+02	3.0E+02 (N)	3.7E+02	3.0E+02	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	1.6E+02	2.2E+02 (N)	2.5E+02	2.2E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	1.6E+02	2.5E+02 (N)	3.2E+02	2.5E+02	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	2.6E+00	4.5E+00 (N)	5.9E+00	4.5E+00	mg/kg	95% UCL - N	(d)
	Nickel	mg/kg	1.1E+01	1.4E+01 (N)	1.6E+01	1.4E+01	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	2.4E+01	3.1E+01 (N)	3.3E+01	3.1E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	3.4E+02	4.9E+02 (N)	6.0E+02 J	4.9E+02	mg/kg	95% UCL - N	(d)
Station 14									
	Benzo(a)anthracene	mg/kg	9.7E-01	N/A (<4)	1.1E+00 J	9.7E-01	mg/kg	Mean	(b)
	Benzo(a)pyrene	mg/kg	1.0E+00	N/A (<4)	8.9E-01 J	8.9E-01	mg/kg	Max	(c)
	Benzo(b)fluoranthene	mg/kg	1.4E+00	N/A (<4)	2.1E+00 J	1.4E+00	mg/kg	Mean	(b)
	Benzo(k)fluoranthene	mg/kg	1.1E+00	N/A (<4)	1.1E+00 J	1.1E+00	mg/kg	Max	(c)
	Phenanthrene	mg/kg	1.5E+00	N/A (<4)	2.6E+00 J	1.5E+00	mg/kg	Mean	(b)
	Antimony	mg/kg	9.1E-01	N/A (<4)	9.9E-01 J	9.1E-01	mg/kg	Mean	(b)
	Arsenic	mg/kg	6.1E+01	N/A (<4)	7.3E+01	6.1E+01	mg/kg	Mean	(b)
	Barium	mg/kg	1.6E+01	N/A (<4)	1.8E+01	1.6E+01	mg/kg	Mean	(b)
	Cadmium	mg/kg	6.4E-01	N/A (<4)	1.0E+00	6.4E-01	mg/kg	Mean	(b)
	Chromium	mg/kg	1.0E+02	N/A (<4)	2.2E+02	1.0E+02	mg/kg	Mean	(b)
	Copper	mg/kg	5.7E+01	N/A (<4)	6.5E+01	5.7E+01	mg/kg	Mean	(b)
	Lead	mg/kg	6.8E+01	N/A (<4)	1.3E+02 J	6.8E+01	mg/kg	Mean	(b)
	Manganese	mg/kg	1.3E+02	N/A (<4)	1.7E+02 J	1.3E+02	mg/kg	Mean	(b)
	Mercury	mg/kg	5.9E-01	N/A (<4)	1.4E+00 J	5.9E-01	mg/kg	Mean	(b)
	Nickel	mg/kg	7.3E+00	N/A (<4)	1.0E+01	7.3E+00	mg/kg	Mean	(b)
	Thallium	mg/kg	4.9E-01	N/A (<4)	8.1E-01	4.9E-01	mg/kg	Mean	(b)
	Vanadium	mg/kg	1.1E+01	N/A (<4)	1.3E+01	1.1E+01	mg/kg	Mean	(b)
	Zinc	mg/kg	2.2E+02	N/A (<4)	2.7E+02	2.2E+02	mg/kg	Mean	(b)

TABLE 3-3 3 CT
EXPOSURE POINT CONCENTRATION SUMMARY
CENTRAL TENDENCY EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station 22/TT-22									
	Tetrachloroethene	mg/kg	1.1E+00	2.8E+00 (N)	3.2E+00	2.8E+00	mg/kg	95% UCL - N	(d)
	Trichloroethene	mg/kg	2.6E-01	7.0E-01 (N)	8.0E-01	7.0E-01	mg/kg	95% UCL - N	(d)
	Benzo(a)anthracene	mg/kg	3.4E-01	N/A (<4)	3.0E-01	3.0E-01	mg/kg	Max	(c)
	Benzo(a)pyrene	mg/kg	3.2E-01	N/A (<4)	2.0E-01	2.0E-01	mg/kg	Max	(c)
	Benzo(b)fluoranthene	mg/kg	3.9E-01	4.9E-01 (NP)	4.4E-01	3.9E-01	mg/kg	Mean	(b)
	Benzo(k)fluoranthene	mg/kg	4.2E-01	N/A (<4)	5.4E-01 J	4.2E-01	mg/kg	Mean	(b)
	Dibenz(a,h)anthracene	mg/kg	2.5E-01	N/A (<4)	4.4E-02 J	4.4E-02	mg/kg	Max	(c)
	Indeno(1,2,3-cd)pyrene	mg/kg	3.1E-01	N/A (<4)	2.2E-01	2.2E-01	mg/kg	Max	(c)
	Phenanthrene	mg/kg	4.0E-01	N/A (<4)	4.9E-01	4.0E-01	mg/kg	Mean	(b)
	Aroclor 1260	mg/kg	3.2E-02	N/A (<4)	2.9E-02	2.9E-02	mg/kg	Max	(c)
	Antimony	mg/kg	7.0E+01	9.2E+02 (G)	3.3E+02 J	7.0E+01	mg/kg	Mean	(b)
	Arsenic	mg/kg	2.1E+01	7.7E+01 (G)	8.7E+01 J	7.7E+01	mg/kg	95% UCL - G	(h)
	Barium	mg/kg	4.1E+01	4.9E+01 (NP)	5.1E+01 J	4.9E+01	mg/kg	95% UCL - NP	(f)
	Cadmium	mg/kg	1.0E+00	1.4E+00 (N)	1.7E+00 J	1.4E+00	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	2.5E+01	6.5E+01 (T)	8.5E+01 J	6.5E+01	mg/kg	95% UCL - T	(e)
	Copper	mg/kg	2.3E+01	2.9E+01 (N)	3.8E+01 J	2.9E+01	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	6.8E+03	3.3E+04 (T)	4.1E+04 J	3.3E+04	mg/kg	95% UCL - T	(e)
	Manganese	mg/kg	7.1E+01	1.2E+02 (G)	1.9E+02 J	1.2E+02	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	1.5E-01	4.6E-01 (G)	5.0E-01	4.6E-01	mg/kg	95% UCL - G	(h)
	Nickel	mg/kg	7.8E+00	1.1E+01 (G)	1.8E+01	1.1E+01	mg/kg	95% UCL - G	(h)
	Vanadium	mg/kg	3.1E+01	4.1E+01 (N)	5.0E+01	4.1E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	7.0E+01	9.6E+01 (N)	1.2E+02 J	9.6E+01	mg/kg	95% UCL - N	(d)

TABLE 3-3.3.CT
EXPOSURE POINT CONCENTRATION SUMMARY
CENTRAL TENDENCY EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station 13/TT-27									
	Trichloroethene	mg/kg	2.2E-02	N/A (<4)	3.7E-02 J	2.2E-02	mg/kg	Mean	(b)
	Benzo(a)anthracene	mg/kg	8.3E-01	1.3E+00 (N)	1.7E+00	1.3E+00	mg/kg	95% UCL - N	(d)
	Benzo(a)pyrene	mg/kg	9.1E-01	1.3E+00 (N)	1.7E+00	1.3E+00	mg/kg	95% UCL - N	(d)
	Benzo(b)fluoranthene	mg/kg	1.7E+00	2.6E+00 (N)	3.6E+00 J	2.6E+00	mg/kg	95% UCL - N	(d)
	Benzo(k)fluoranthene	mg/kg	1.3E+00	2.3E+00 (N)	3.4E+00 J	2.3E+00	mg/kg	95% UCL - N	(d)
	Dibenz(a,h)anthracene	mg/kg	2.2E-01	3.1E-01 (N)	3.3E-01 J	3.1E-01	mg/kg	95% UCL - N	(d)
	Indeno(1,2,3-cd)pyrene	mg/kg	6.4E-01	8.8E-01 (N)	1.0E+00	8.8E-01	mg/kg	95% UCL - N	(d)
	Phenanthrene	mg/kg	9.5E-01	1.7E+00 (N)	2.7E+00	1.7E+00	mg/kg	95% UCL - N	(d)
	Aroclor 1254	mg/kg	1.6E-02	N/A (<4)	4.5E-02	1.6E-02	mg/kg	Mean	(b)
	Aroclor 1260	mg/kg	1.6E-01	3.3E-01 (N)	3.1E-01 J	1.6E-01	mg/kg	Mean	(b)
	Antimony	mg/kg	1.3E+01	9.2E+01 (G)	6.1E+01 J	1.3E+01	mg/kg	Mean	(b)
	Arsenic	mg/kg	8.8E+02	3.6E+03 (G)	4.2E+03 J	3.6E+03	mg/kg	95% UCL - G	(h)
	Barium	mg/kg	1.6E+02	2.4E+02 (G)	3.9E+02	2.4E+02	mg/kg	95% UCL - G	(h)
	Cadmium	mg/kg	6.8E+00	9.4E+00 (N)	1.4E+01 J	9.4E+00	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	4.0E+02	5.6E+02 (N)	7.3E+02 J	5.6E+02	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	7.4E+02	1.6E+03 (G)	2.3E+03 J	1.6E+03	mg/kg	95% UCL - G	(h)
	Lead	mg/kg	7.0E+02	9.5E+02 (N)	1.3E+03 J	9.5E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	5.2E+02	7.6E+02 (N)	1.1E+03 J	7.6E+02	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	5.2E+00	2.1E+01 (G)	2.0E+01 J	5.2E+00	mg/kg	Mean	(b)
	Nickel	mg/kg	2.4E+01	3.2E+01 (G)	5.3E+01 J	3.2E+01	mg/kg	95% UCL - G	(h)
	Thallium	mg/kg	1.1E+00	6.2E+00 (NP)	3.7E+00 J	1.1E+00	mg/kg	Mean	(b)
	Vanadium	mg/kg	6.8E+01	8.7E+01 (N)	1.2E+02 J	8.7E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	1.3E+03	2.2E+03 (G)	2.7E+03 J	2.2E+03	mg/kg	95% UCL - G	(h)

TABLE 3-3.3.CT

EXPOSURE POINT CONCENTRATION SUMMARY

CENTRAL TENDENCY EXPOSURE

WELLS G&H SUPERFUND SITE OU3

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)
Station WH									
	Trichloroethene	mg/kg	5.3E-02	N/A (<4)	5.3E-02 J	5.3E-02	mg/kg	Max	(c)
	Benzo(a)anthracene	mg/kg	4.3E-01	N/A (<4)	5.6E-01 J	4.3E-01	mg/kg	Mean	(b)
	Benzo(a)pyrene	mg/kg	1.0E+00	N/A (<4)	1.0E+00 J	1.0E+00	mg/kg	Max	(c)
	Benzo(b)fluoranthene	mg/kg	9.0E-01	N/A (<4)	1.5E+00 J	9.0E-01	mg/kg	Mean	(b)
	Benzo(k)fluoranthene	mg/kg	6.9E-01	N/A (<4)	7.2E-01 J	6.9E-01	mg/kg	Mean	(b)
	Dibenz(a,h)anthracene	mg/kg	3.1E-01	N/A (<4)	3.2E-01 J	3.1E-01	mg/kg	Mean	(b)
	Indeno(1,2,3-cd)pyrene	mg/kg	5.2E-01	N/A (<4)	7.4E-01 J	5.2E-01	mg/kg	Mean	(b)
	Phenanthrene	mg/kg	4.4E-01	N/A (<4)	5.7E-01 J	4.4E-01	mg/kg	Mean	(b)
	Aroclor 1260	mg/kg	4.1E-02	N/A (<4)	5.8E-02	4.1E-02	mg/kg	Mean	(b)
	Antimony	mg/kg	2.6E+01	3.5E+01 (G)	6.8E+01 J	3.5E+01	mg/kg	95% UCL - G	(h)
	Arsenic	mg/kg	3.7E+02	1.9E+03 (T)	3.2E+03	1.9E+03	mg/kg	95% UCL - T	(e)
	Barium	mg/kg	8.1E+01	9.3E+01 (N)	1.3E+02	9.3E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	6.4E+00	1.1E+01 (G)	1.5E+01 J	1.1E+01	mg/kg	95% UCL - G	(h)
	Chromium	mg/kg	4.9E+02	1.2E+03 (G)	2.1E+03	1.2E+03	mg/kg	95% UCL - G	(h)
	Copper	mg/kg	4.0E+02	1.2E+03 (T)	2.1E+03	1.2E+03	mg/kg	95% UCL - T	(e)
	Lead	mg/kg	1.5E+03	1.8E+03 (N)	2.5E+03	1.8E+03	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	2.9E+02	5.1E+02 (G)	7.8E+02	5.1E+02	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	3.0E+00	2.7E+01 (NP)	2.8E+01	2.7E+01	mg/kg	95% UCL - NP	(f)
	Nickel	mg/kg	2.4E+01	4.1E+01 (NP)	4.4E+01	4.1E+01	mg/kg	95% UCL - NP	(f)
	Thallium	mg/kg	5.6E-01	7.7E-01 (N)	1.5E+00	7.7E-01	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	7.8E+01	9.8E+01 (N)	1.6E+02	9.8E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	1.1E+03	2.3E+03 (G)	3.2E+03	2.3E+03	mg/kg	95% UCL - G	(h)
	Chromium VI	mg/kg	6.4E-01	1.5E+00 (G)	2.8E+00 J	1.5E+00	mg/kg	95% UCL - G	(h)

TABLE 3-3.3.CT
EXPOSURE POINT CONCENTRATION SUMMARY
CENTRAL TENDENCY EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station NT-1									
	Trichloroethene	mg/kg	4.8E-02	N/A (<4)	5.3E-02 J	4.8E-02	mg/kg	Mean	(b)
	Benzo(a)anthracene	mg/kg	2.8E-01	5.1E-01 (N)	5.6E-01 J	5.1E-01	mg/kg	95% UCL - N	(d)
	Benzo(a)pyrene	mg/kg	4.2E-01	8.8E-01 (N)	1.0E+00 J	8.8E-01	mg/kg	95% UCL - N	(d)
	Benzo(b)fluoranthene	mg/kg	7.8E-01	1.4E+00 (N)	1.5E+00 J	1.4E+00	mg/kg	95% UCL - N	(d)
	Benzo(k)fluoranthene	mg/kg	5.6E-01	9.3E-01 (N)	9.1E-01 J	5.6E-01	mg/kg	Mean	(b)
	Dibenz(a,h)anthracene	mg/kg	1.9E-01	N/A (<4)	3.2E-01 J	1.9E-01	mg/kg	Mean	(b)
	Indeno(1,2,3-cd)pyrene	mg/kg	3.2E-01	1.2E+00 (G)	7.4E-01 J	3.2E-01	mg/kg	Mean	(b)
	Phenanthrene	mg/kg	3.1E-01	N/A (<4)	5.7E-01 J	3.1E-01	mg/kg	Mean	(b)
	Aroclor 1260	mg/kg	2.8E-02	N/A (<4)	5.8E-02	2.8E-02	mg/kg	Mean	(b)
	Antimony	mg/kg	1.0E+01	1.4E+01 (G)	6.8E+01 J	1.4E+01	mg/kg	95% UCL - G	(h)
	Arsenic	mg/kg	6.4E+02	2.5E+03 (T)	4.3E+03	2.5E+03	mg/kg	95% UCL - T	(e)
	Barium	mg/kg	9.3E+01	1.1E+02 (N)	2.1E+02	1.1E+02	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	7.3E+00	8.5E+00 (N)	1.5E+01 J	8.5E+00	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	1.0E+03	1.5E+03 (G)	5.5E+03 J	1.5E+03	mg/kg	95% UCL - G	(h)
	Copper	mg/kg	6.3E+02	8.4E+02 (G)	2.1E+03	8.4E+02	mg/kg	95% UCL - G	(h)
	Lead	mg/kg	4.7E+02	5.4E+02 (N)	1.2E+03	5.4E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	8.3E+02	1.1E+03 (G)	2.0E+03	1.1E+03	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	3.2E+00	4.9E+00 (G)	2.8E+01	4.9E+00	mg/kg	95% UCL - G	(h)
	Nickel	mg/kg	2.9E+01	4.1E+01 (NP)	7.9E+01	4.1E+01	mg/kg	95% UCL - NP	(f)
	Thallium	mg/kg	2.7E+00	1.1E+01 (NP)	1.8E+01 J	1.1E+01	mg/kg	95% UCL - NP	(f)
	Vanadium	mg/kg	6.1E+01	6.9E+01 (N)	1.1E+02	6.9E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	1.4E+03	1.7E+03 (N)	3.8E+03	1.7E+03	mg/kg	95% UCL - N	(d)
	Chromium VI	mg/kg	1.4E+00	2.0E+00 (G)	7.2E+00 J	2.0E+00	mg/kg	95% UCL - G	(h)

TABLE 3-3.3.CT
EXPOSURE POINT CONCENTRATION SUMMARY
CENTRAL TENDENCY EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station NT-2									
	Trichloroethene	mg/kg	3.5E-02	N/A (<4)	5.3E-02 J	3.5E-02	mg/kg	Mean	(b)
	Benzo(a)anthracene	mg/kg	2.5E-01	4.2E-01 (N)	5.6E-01 J	4.2E-01	mg/kg	95% UCL - N	(d)
	Benzo(a)pyrene	mg/kg	3.6E-01	1.0E+00 (G)	1.0E+00 J	3.6E-01	mg/kg	Mean	(b)
	Benzo(b)fluoranthene	mg/kg	6.7E-01	1.1E+00 (N)	1.5E+00 J	1.1E+00	mg/kg	95% UCL - N	(d)
	Benzo(k)fluoranthene	mg/kg	4.9E-01	7.4E-01 (N)	8.0E-01 J	7.4E-01	mg/kg	95% UCL - N	(d)
	Dibenz(a,h)anthracene	mg/kg	2.4E-01	N/A (<4)	3.2E-01 J	2.4E-01	mg/kg	Mean	(b)
	Indeno(1,2,3-cd)pyrene	mg/kg	2.8E-01	1.5E+00 (G)	7.4E-01 J	2.8E-01	mg/kg	Mean	(b)
	Phenanthrene	mg/kg	3.3E-01	5.4E-01 (N)	5.7E-01 J	5.4E-01	mg/kg	95% UCL - N	(d)
	Aroclor 1260	mg/kg	3.5E-02	N/A (<4)	5.8E-02	3.5E-02	mg/kg	Mean	(b)
	Antimony	mg/kg	9.3E+00	1.5E+01 (G)	6.8E+01 J	1.5E+01	mg/kg	95% UCL - G	(h)
	Arsenic	mg/kg	3.1E+02	1.8E+03 (NP)	3.2E+03	1.8E+03	mg/kg	95% UCL - NP	(f)
	Barium	mg/kg	7.3E+01	8.7E+01 (N)	1.8E+02	8.7E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	5.1E+00	6.3E+00 (N)	1.2E+01	6.3E+00	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	5.8E+02	9.2E+02 (G)	2.6E+03	9.2E+02	mg/kg	95% UCL - G	(h)
	Copper	mg/kg	5.1E+02	7.5E+02 (G)	2.1E+03	7.5E+02	mg/kg	95% UCL - G	(h)
	Lead	mg/kg	4.2E+02	5.2E+02 (N)	1.2E+03	5.2E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	6.5E+02	9.0E+02 (G)	1.9E+03	9.0E+02	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	2.5E+00	5.3E+00 (T)	2.8E+01	5.3E+00	mg/kg	95% UCL - T	(e)
	Nickel	mg/kg	2.6E+01	3.3E+01 (G)	7.9E+01	3.3E+01	mg/kg	95% UCL - G	(h)
	Thallium	mg/kg	4.3E-01	5.5E-01 (G)	1.4E+00	5.5E-01	mg/kg	95% UCL - G	(h)
	Vanadium	mg/kg	5.2E+01	6.6E+01 (G)	1.1E+02	6.6E+01	mg/kg	95% UCL - G	(h)
	Zinc	mg/kg	1.0E+03	1.3E+03 (N)	2.6E+03	1.3E+03	mg/kg	95% UCL - N	(d)

TABLE 3-3.3.CT
EXPOSURE POINT CONCENTRATION SUMMARY
CENTRAL TENDENCY EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station NT-3									
	Trichloroethene	mg/kg	4.8E-02	N/A (<4)	5.3E-02 J	4.8E-02	mg/kg	Mean	(b)
	Benzo(a)anthracene	mg/kg	3.5E-01	N/A (<4)	5.6E-01 J	3.5E-01	mg/kg	Mean	(b)
	Benzo(a)pyrene	mg/kg	5.8E-01	N/A (<4)	1.0E+00 J	5.8E-01	mg/kg	Mean	(b)
	Benzo(b)fluoranthene	mg/kg	9.0E-01	N/A (<4)	1.5E+00 J	9.0E-01	mg/kg	Mean	(b)
	Benzo(k)fluoranthene	mg/kg	4.6E-01	N/A (<4)	7.2E-01 J	4.6E-01	mg/kg	Mean	(b)
	Dibenz(a,h)anthracene	mg/kg	1.8E-01	N/A (<4)	3.2E-01 J	1.8E-01	mg/kg	Mean	(b)
	Indeno(1,2,3-cd)pyrene	mg/kg	4.4E-01	N/A (<4)	7.4E-01 J	4.4E-01	mg/kg	Mean	(b)
	Phenanthrene	mg/kg	3.7E-01	N/A (<4)	5.7E-01 J	3.7E-01	mg/kg	Mean	(b)
	Aroclor 1260	mg/kg	3.5E-02	N/A (<4)	5.8E-02	3.5E-02	mg/kg	Mean	(b)
	Antimony	mg/kg	9.1E+00	1.5E+01 (G)	6.8E+01 J	1.5E+01	mg/kg	95% UCL - G	(h)
	Arsenic	mg/kg	2.8E+02	5.0E+02 (T)	3.2E+03	5.0E+02	mg/kg	95% UCL - T	(e)
	Barium	mg/kg	7.9E+01	9.3E+01 (N)	1.8E+02	9.3E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	5.5E+00	6.7E+00 (N)	1.2E+01	6.7E+00	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	6.3E+02	1.0E+03 (G)	2.6E+03	1.0E+03	mg/kg	95% UCL - G	(h)
	Copper	mg/kg	5.6E+02	8.3E+02 (G)	2.1E+03	8.3E+02	mg/kg	95% UCL - G	(h)
	Lead	mg/kg	4.7E+02	5.7E+02 (N)	1.2E+03	5.7E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	7.1E+02	1.0E+03 (G)	1.9E+03	1.0E+03	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	2.6E+00	5.1E+00 (T)	2.9E+01	5.1E+00	mg/kg	95% UCL - T	(e)
	Nickel	mg/kg	2.8E+01	3.6E+01 (G)	7.9E+01	3.6E+01	mg/kg	95% UCL - G	(h)
	Thallium	mg/kg	3.7E-01	5.7E-01 (NP)	7.0E-01 J	5.7E-01	mg/kg	95% UCL - NP	(f)
	Vanadium	mg/kg	5.6E+01	6.8E+01 (N)	1.1E+02	6.8E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	9.5E+02	1.2E+03 (N)	2.6E+03	1.2E+03	mg/kg	95% UCL - N	(d)

TABLE 3-3 3.CT

EXPOSURE POINT CONCENTRATION SUMMARY

CENTRAL TENDENCY EXPOSURE

WELLS G&H SUPERFUND SITE OU3

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)
Station WG									
	Trichloroethene	mg/kg	4.2E-02	N/A (<4)	4.2E-02 J	4.2E-02	mg/kg	Max	(c)
	Benzo(a)anthracene	mg/kg	1.3E-01	N/A (<4)	1.3E-01 J	1.3E-01	mg/kg	Max	(c)
	Benzo(a)pyrene	mg/kg	1.6E-01	N/A (<4)	1.6E-01 J	1.6E-01	mg/kg	Max	(c)
	Benzo(b)fluoranthene	mg/kg	2.9E-01	N/A (<4)	2.9E-01 J	2.9E-01	mg/kg	Max	(c)
	Benzo(k)fluoranthene	mg/kg	2.0E-01	N/A (<4)	2.0E-01 J	2.0E-01	mg/kg	Max	(c)
	Dibenz(a,h)anthracene	mg/kg	4.6E-02	N/A (<4)	4.6E-02 J	4.6E-02	mg/kg	Max	(c)
	Indeno(1,2,3-cd)pyrene	mg/kg	1.4E-01	N/A (<4)	1.4E-01 J	1.4E-01	mg/kg	Max	(c)
	Phenanthrene	mg/kg	1.6E-01	N/A (<4)	1.6E-01 J	1.6E-01	mg/kg	Max	(c)
	Aroclor 1260	mg/kg	1.1E-02	N/A (<4)	1.1E-02	1.1E-02	mg/kg	Max	(c)
	Antimony	mg/kg	6.0E+00	9.2E+00 (G)	2.5E+01 J	9.2E+00	mg/kg	95% UCL - G	(h)
	Arsenic	mg/kg	1.4E+02	2.6E+02 (T)	1.5E+03 J	2.6E+02	mg/kg	95% UCL - T	(e)
	Barium	mg/kg	7.9E+01	9.4E+01 (N)	1.8E+02	9.4E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	5.2E+00	6.4E+00 (N)	1.2E+01	6.4E+00	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	5.6E+02	9.3E+02 (G)	2.6E+03	9.3E+02	mg/kg	95% UCL - G	(h)
	Copper	mg/kg	4.8E+02	6.3E+02 (N)	1.3E+03	6.3E+02	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	4.3E+02	5.2E+02 (N)	8.1E+02	5.2E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	7.0E+02	1.0E+03 (G)	1.9E+03	1.0E+03	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	1.4E+00	3.0E+00 (T)	1.2E+01 J	3.0E+00	mg/kg	95% UCL - T	(e)
	Nickel	mg/kg	2.8E+01	3.5E+01 (N)	7.9E+01	3.5E+01	mg/kg	95% UCL - N	(d)
	Thallium	mg/kg	3.6E-01	4.4E-01 (N)	7.0E-01 J	4.4E-01	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	5.4E+01	6.5E+01 (N)	1.0E+02	6.5E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	8.7E+02	1.1E+03 (N)	2.1E+03	1.1E+03	mg/kg	95% UCL - N	(d)

TABLE 3-3.3 CT
EXPOSURE POINT CONCENTRATION SUMMARY
CENTRAL TENDENCY EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station WW									
	Benzo(b)fluoranthene	mg/kg	3.3E-01	N/A (<4)	3.3E-01 J	3.3E-01	mg/kg	Max	(c)
	Benzo(k)fluoranthene	mg/kg	6.1E-01	N/A (<4)	6.1E-01 J	6.1E-01	mg/kg	Max	(c)
	Antimony	mg/kg	2.9E+01	N/A (<4)	5.7E+01 J	2.9E+01	mg/kg	Mean	(b)
	Arsenic	mg/kg	4.1E+01	5.5E+01 (NP)	5.5E+01 J	4.1E+01	mg/kg	Mean	(b)
	Barium	mg/kg	4.4E+02	1.5E+03 (NP)	3.4E+03	1.5E+03	mg/kg	95% UCL - NP	(f)
	Cadmium	mg/kg	4.0E+00	9.6E+00 (NP)	9.6E+00 J	9.6E+00	mg/kg	95% UCL - NP	(f)
	Chromium	mg/kg	1.2E+04	1.5E+04 (N)	2.5E+04 J	1.5E+04	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	3.5E+02	4.1E+02 (N)	6.0E+02	4.1E+02	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	3.0E+02	3.5E+02 (N)	5.0E+02 J	3.5E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	3.3E+02	4.2E+02 (N)	8.0E+02	4.2E+02	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	9.8E-01	1.2E+00 (N)	1.8E+00	1.2E+00	mg/kg	95% UCL - N	(d)
	Nickel	mg/kg	2.3E+01	2.5E+01 (N)	2.9E+01	2.5E+01	mg/kg	95% UCL - N	(d)
	Thallium	mg/kg	1.2E+00	1.5E+00 (N)	2.7E+00 J	1.5E+00	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	6.8E+01	7.6E+01 (N)	1.0E+02	7.6E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	1.2E+03	1.3E+03 (N)	1.9E+03	1.3E+03	mg/kg	95% UCL - N	(d)
	Chromium VI	mg/kg	1.6E+01	2.0E+01 (N)	3.2E+01 J	2.0E+01	mg/kg	95% UCL - N	(d)
Station JY									
	Aroclor 1254	mg/kg	9.1E-01	1.4E+00 (N)	2.6E+00	1.4E+00	mg/kg	95% UCL - N	(d)
	Aroclor 1260	mg/kg	9.9E-01	1.5E+00 (N)	2.4E+00	1.5E+00	mg/kg	95% UCL - N	(d)
	Antimony	mg/kg	5.4E+00	2.5E+01 (NP)	2.0E+01	5.4E+00	mg/kg	Mean	(b)
	Arsenic	mg/kg	1.4E+02	2.8E+02 (G)	4.8E+02	2.8E+02	mg/kg	95% UCL - G	(h)
	Barium	mg/kg	1.3E+02	1.8E+02 (N)	3.5E+02 J	1.8E+02	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	1.1E+01	1.5E+01 (N)	2.1E+01	1.5E+01	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	8.4E+02	1.2E+03 (N)	1.7E+03 J	1.2E+03	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	3.8E+02	5.0E+02 (N)	7.4E+02 J	5.0E+02	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	5.2E+02	7.3E+02 (N)	1.2E+03	7.3E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	2.9E+02	3.7E+02 (N)	5.6E+02	3.7E+02	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	7.7E-01	1.8E+00 (G)	2.3E+00	1.8E+00	mg/kg	95% UCL - G	(h)
	Nickel	mg/kg	5.2E+01	7.5E+01 (N)	1.5E+02	7.5E+01	mg/kg	95% UCL - N	(d)
	Thallium	mg/kg	2.5E+00	4.0E+00 (G)	6.9E+00 J	4.0E+00	mg/kg	95% UCL - G	(h)
	Vanadium	mg/kg	4.9E+01	6.4E+01 (N)	9.1E+01	6.4E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	1.8E+03	2.4E+03 (N)	2.9E+03	2.4E+03	mg/kg	95% UCL - N	(d)
	Chromium VI	mg/kg	1.1E+00	1.5E+00 (N)	2.2E+00 J	1.5E+00	mg/kg	95% UCL - N	(d)

TABLE 3-3.3.CT
EXPOSURE POINT CONCENTRATION SUMMARY
CENTRAL TENDENCY EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station WS/WSS									
	Antimony	mg/kg	4.0E+00	4.9E+00 (N)	7.2E+00 J	4.9E+00	mg/kg	95% UCL - N	(d)
	Arsenic	mg/kg	1.7E+02	2.3E+02 (N)	3.4E+02	2.3E+02	mg/kg	95% UCL - N	(d)
	Barium	mg/kg	1.2E+02	1.4E+02 (N)	2.0E+02	1.4E+02	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	8.1E+00	1.1E+01 (N)	1.7E+01	1.1E+01	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	5.0E+02	7.3E+02 (N)	1.3E+03	7.3E+02	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	3.1E+02	4.1E+02 (N)	6.9E+02	4.1E+02	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	2.9E+02	3.7E+02 (N)	4.9E+02	3.7E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	1.0E+03	1.2E+03 (N)	1.4E+03 J	1.2E+03	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	9.8E-01	1.4E+00 (N)	1.8E+00 J	1.4E+00	mg/kg	95% UCL - N	(d)
	Nickel	mg/kg	3.0E+01	3.6E+01 (N)	4.6E+01 J	3.6E+01	mg/kg	95% UCL - N	(d)
	Thallium	mg/kg	7.6E-01	1.1E+00 (N)	2.2E+00 J	1.1E+00	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	3.7E+01	4.5E+01 (N)	5.6E+01	4.5E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	1.5E+03	2.0E+03 (N)	3.4E+03	2.0E+03	mg/kg	95% UCL - N	(d)
	Chromium VI	mg/kg	6.6E-01	9.5E-01 (N)	1.7E+00 J	9.5E-01	mg/kg	95% UCL - N	(d)
Station TT-30									
	Arsenic	mg/kg	1.1E+03	N/A (<4)	1.1E+03 J	1.1E+03	mg/kg	Max	(c)
	Barium	mg/kg	3.3E+01	N/A (<4)	3.3E+01 J	3.3E+01	mg/kg	Max	(c)
	Cadmium	mg/kg	7.1E+00	N/A (<4)	7.1E+00 J	7.1E+00	mg/kg	Max	(c)
	Chromium	mg/kg	5.3E+03	N/A (<4)	5.3E+03 J	5.3E+03	mg/kg	Max	(c)
	Copper	mg/kg	3.8E+03	N/A (<4)	3.8E+03 J	3.8E+03	mg/kg	Max	(c)
	Lead	mg/kg	4.3E+02	N/A (<4)	4.3E+02 J	4.3E+02	mg/kg	Max	(c)
	Manganese	mg/kg	2.1E+02	N/A (<4)	2.1E+02 J	2.1E+02	mg/kg	Max	(c)
	Mercury	mg/kg	8.9E+01	N/A (<4)	8.9E+01 J	8.9E+01	mg/kg	Max	(c)
	Nickel	mg/kg	8.0E+00	N/A (<4)	8.0E+00	8.0E+00	mg/kg	Max	(c)
	Thallium	mg/kg	1.5E+00	N/A (<4)	1.5E+00	1.5E+00	mg/kg	Max	(c)
	Vanadium	mg/kg	2.1E+01	N/A (<4)	2.1E+01	2.1E+01	mg/kg	Max	(c)
	Zinc	mg/kg	1.2E+03	N/A (<4)	1.2E+03	1.2E+03	mg/kg	Max	(c)
	Chromium VI	mg/kg	6.9E+00	N/A (<4)	6.9E+00 J	6.9E+00	mg/kg	Max	(c)

TABLE 3-3.3.CT
EXPOSURE POINT CONCENTRATION SUMMARY
CENTRAL TENDENCY EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station TT-31									
	Arsenic	mg/kg	1.7E+01	N/A (<4)	3.0E+01 J	1.7E+01	mg/kg	Mean	(b)
	Barium	mg/kg	9.1E+01	N/A (<4)	1.6E+02 J	9.1E+01	mg/kg	Mean	(b)
	Cadmium	mg/kg	4.2E+00	N/A (<4)	5.5E+00 J	4.2E+00	mg/kg	Mean	(b)
	Chromium	mg/kg	1.9E+02	N/A (<4)	3.0E+02 J	1.9E+02	mg/kg	Mean	(b)
	Copper	mg/kg	1.1E+02	N/A (<4)	1.8E+02 J	1.1E+02	mg/kg	Mean	(b)
	Lead	mg/kg	2.8E+02	N/A (<4)	3.3E+02 J	2.8E+02	mg/kg	Mean	(b)
	Manganese	mg/kg	5.9E+02	N/A (<4)	1.2E+03 J	5.9E+02	mg/kg	Mean	(b)
	Mercury	mg/kg	1.4E+00	N/A (<4)	1.8E+00 J	1.4E+00	mg/kg	Mean	(b)
	Nickel	mg/kg	2.6E+01	N/A (<4)	3.6E+01	2.6E+01	mg/kg	Mean	(b)
	Vanadium	mg/kg	4.6E+01	N/A (<4)	5.7E+01 J	4.6E+01	mg/kg	Mean	(b)
	Zinc	mg/kg	4.6E+02	N/A (<4)	6.8E+02	4.6E+02	mg/kg	Mean	(b)
Station CB-01									
	Antimony	mg/kg	1.2E+00	2.0E+00 (G)	4.0E+00 J	2.0E+00	mg/kg	95% UCL - G	(h)
	Arsenic	mg/kg	4.1E+01	5.8E+01 (N)	9.9E+01 J	5.8E+01	mg/kg	95% UCL - N	(d)
	Barium	mg/kg	4.0E+01	5.9E+01 (N)	1.1E+02	5.9E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	5.2E+00	9.3E+00 (G)	1.6E+01 J	9.3E+00	mg/kg	95% UCL - G	(h)
	Chromium	mg/kg	2.2E+02	3.3E+02 (N)	5.8E+02	3.3E+02	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	3.9E+02	7.5E+02 (G)	1.1E+03 J	7.5E+02	mg/kg	95% UCL - G	(h)
	Lead	mg/kg	3.2E+02	4.4E+02 (N)	6.5E+02 J	4.4E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	3.4E+02	6.9E+02 (G)	1.3E+03 J	6.9E+02	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	1.5E+00	2.9E+00 (G)	4.8E+00 J	2.9E+00	mg/kg	95% UCL - G	(h)
	Nickel	mg/kg	9.2E+00	2.0E+01 (NP)	3.2E+01 J	2.0E+01	mg/kg	95% UCL - NP	(f)
	Thallium	mg/kg	1.0E+00	2.5E+00 (T)	3.1E+00	2.5E+00	mg/kg	95% UCL - T	(e)
	Vanadium	mg/kg	5.4E+01	7.9E+01 (G)	1.1E+02	7.9E+01	mg/kg	95% UCL - G	(h)
	Zinc	mg/kg	4.2E+02	6.4E+02 (N)	1.2E+03	6.4E+02	mg/kg	95% UCL - N	(d)

TABLE 3-3.3.CT
EXPOSURE POINT CONCENTRATION SUMMARY
CENTRAL TENDENCY EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station CB-02									
	Antimony	mg/kg	1.5E+00	1.8E+00 (N)	2.0E+00 J	1.8E+00	mg/kg	95% UCL - N	(d)
	Arsenic	mg/kg	2.7E+01	4.1E+01 (G)	5.6E+01 J	4.1E+01	mg/kg	95% UCL - G	(h)
	Barium	mg/kg	7.9E+01	1.7E+02 (T)	3.9E+02	1.7E+02	mg/kg	95% UCL - T	(e)
	Cadmium	mg/kg	3.1E+00	3.8E+00 (N)	5.8E+00 J	3.8E+00	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	1.1E+02	1.4E+02 (N)	2.5E+02 J	1.4E+02	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	7.5E+01	9.8E+01 (G)	1.7E+02	9.8E+01	mg/kg	95% UCL - G	(h)
	Lead	mg/kg	1.2E+02	2.4E+02 (NP)	3.4E+02 J	2.4E+02	mg/kg	95% UCL - NP	(f)
	Manganese	mg/kg	5.6E+01	7.2E+01 (G)	1.1E+02 J	7.2E+01	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	2.4E-01	3.3E-01 (G)	5.8E-01	3.3E-01	mg/kg	95% UCL - G	(h)
	Nickel	mg/kg	8.3E+00	1.0E+01 (N)	1.3E+01 J	1.0E+01	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	2.7E+01	3.2E+01 (N)	4.6E+01	3.2E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	2.5E+02	3.1E+02 (N)	4.5E+02 J	3.1E+02	mg/kg	95% UCL - N	(d)
Station CB-03									
	Antimony	mg/kg	1.5E+00	6.8E+00 (NP)	4.8E+00 J	1.5E+00	mg/kg	Mean	(b)
	Arsenic	mg/kg	2.7E+02	5.9E+02 (G)	1.4E+03	5.9E+02	mg/kg	95% UCL - G	(h)
	Barium	mg/kg	5.2E+01	6.7E+01 (N)	9.6E+01	6.7E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	7.4E+00	1.3E+01 (G)	2.3E+01 J	1.3E+01	mg/kg	95% UCL - G	(h)
	Chromium	mg/kg	4.6E+02	1.3E+03 (NP)	7.7E+02	4.6E+02	mg/kg	Mean	(b)
	Copper	mg/kg	2.7E+02	3.8E+02 (N)	6.7E+02 J	3.8E+02	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	2.0E+02	2.7E+02 (N)	4.4E+02 J	2.7E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	2.8E+02	4.6E+02 (G)	9.9E+02	4.6E+02	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	1.2E+00	2.5E+00 (G)	3.6E+00	2.5E+00	mg/kg	95% UCL - G	(h)
	Nickel	mg/kg	2.6E+01	3.7E+01 (G)	7.8E+01 J	3.7E+01	mg/kg	95% UCL - G	(h)
	Thallium	mg/kg	7.1E-01	9.7E-01 (N)	1.5E+00 J	9.7E-01	mg/kg	95% UCL - N	(c)
	Vanadium	mg/kg	4.7E+01	6.2E+01 (N)	9.7E+01 J	6.2E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	1.1E+03	2.1E+03 (G)	5.3E+03	2.1E+03	mg/kg	95% UCL - G	(h)

TABLE 3-3 3.CT
EXPOSURE POINT CONCENTRATION SUMMARY
CENTRAL TENDENCY EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station CB-04									
	Antimony	mg/kg	3.6E+00	4.8E+00 (N)	7.2E+00	4.8E+00	mg/kg	95% UCL - N	(d)
	Arsenic	mg/kg	1.1E+02	1.8E+02 (G)	3.3E+02	1.8E+02	mg/kg	95% UCL - G	(h)
	Barium	mg/kg	6.1E+01	7.7E+01 (N)	1.1E+02	7.7E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	4.0E+00	5.7E+00 (N)	8.9E+00	5.7E+00	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	1.7E+02	2.7E+02 (G)	5.7E+02	2.7E+02	mg/kg	95% UCL - G	(h)
	Copper	mg/kg	1.8E+02	2.4E+02 (N)	3.6E+02	2.4E+02	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	2.1E+02	2.8E+02 (N)	4.1E+02	2.8E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	4.0E+02	1.4E+03 (NP)	2.4E+03	1.4E+03	mg/kg	95% UCL - NP	(f)
	Mercury	mg/kg	7.3E-01	1.2E+00 (G)	2.2E+00	1.2E+00	mg/kg	95% UCL - G	(h)
	Nickel	mg/kg	4.1E+01	7.7E+01 (G)	1.8E+02	7.7E+01	mg/kg	95% UCL - G	(h)
	Thallium	mg/kg	1.1E+00	6.5E+00 (NP)	5.3E+00	1.1E+00	mg/kg	Mean	(b)
	Vanadium	mg/kg	5.5E+01	6.8E+01 (N)	8.5E+01	6.8E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	1.4E+03	3.1E+03 (T)	8.8E+03	3.1E+03	mg/kg	95% UCL - T	(e)
Station CB-06									
	Antimony	mg/kg	1.7E+00	4.7E+00 (NP)	7.8E+00	4.7E+00	mg/kg	95% UCL - NP	(f)
	Arsenic	mg/kg	9.8E+01	1.4E+02 (N)	2.6E+02 J	1.4E+02	mg/kg	95% UCL - N	(d)
	Barium	mg/kg	4.0E+01	5.1E+01 (N)	6.0E+01	5.1E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	8.6E+00	1.7E+01 (G)	3.5E+01	1.7E+01	mg/kg	95% UCL - G	(h)
	Chromium	mg/kg	2.8E+02	5.0E+02 (G)	9.7E+02	5.0E+02	mg/kg	95% UCL - G	(h)
	Copper	mg/kg	1.8E+02	2.4E+02 (N)	3.9E+02	2.4E+02	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	1.4E+02	1.9E+02 (N)	3.3E+02	1.9E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	7.9E+01	9.4E+01 (N)	1.3E+02 J	9.4E+01	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	2.3E-01	3.4E-01 (N)	5.6E-01	3.4E-01	mg/kg	95% UCL - N	(d)
	Nickel	mg/kg	1.9E+01	2.8E+01 (G)	4.9E+01	2.8E+01	mg/kg	95% UCL - G	(h)
	Thallium	mg/kg	3.2E+00	4.1E+00 (N)	6.1E+00	4.1E+00	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	5.3E+01	7.2E+01 (N)	1.0E+02	7.2E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	1.4E+03	2.1E+03 (N)	3.8E+03 J	2.1E+03	mg/kg	95% UCL - N	(d)
	Chromium VI	mg/kg	3.6E-01	6.5E-01 (G)	1.3E+00 J	6.5E-01	mg/kg	95% UCL - G	(h)

TABLE 3-3.3 CT
EXPOSURE POINT CONCENTRATION SUMMARY
CENTRAL TENDENCY EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station CB-07									
	Arsenic	mg/kg	9.1E+01	2.1E+02 (N)	2.3E+02 J	2.1E+02	mg/kg	95% UCL - N	(d)
	Barium	mg/kg	3.2E+01	5.6E+01 (N)	5.7E+01	5.6E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	2.0E+00	4.9E+00 (N)	5.6E+00	4.9E+00	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	3.3E+02	7.1E+02 (N)	7.8E+02	7.1E+02	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	1.6E+02	8.7E+02 (G)	4.4E+02	1.6E+02	mg/kg	Mean	(b)
	Lead	mg/kg	1.5E+02	3.4E+02 (N)	3.8E+02	3.4E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	3.3E+02	6.7E+02 (N)	6.5E+02 J	3.3E+02	mg/kg	Mean	(b)
	Mercury	mg/kg	5.6E-01	1.3E+00 (N)	1.4E+00	1.3E+00	mg/kg	95% UCL - N	(d)
	Nickel	mg/kg	1.4E+01	2.2E+01 (N)	2.3E+01	2.2E+01	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	4.7E+01	9.2E+01 (N)	1.0E+02	9.2E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	3.0E+02	6.2E+02 (N)	6.7E+02 J	6.2E+02	mg/kg	95% UCL - N	(d)
Station 16/TT-33									
	Benzo(a)anthracene	mg/kg	2.4E-01	3.9E-01 (N)	1.1E-01 J	1.1E-01	mg/kg	Max	(c)
	Benzo(a)pyrene	mg/kg	2.5E-01	3.9E-01 (N)	1.4E-01 J	1.4E-01	mg/kg	Max	(c)
	Benzo(b)fluoranthene	mg/kg	2.3E-01	4.2E-01 (N)	2.6E-01	2.3E-01	mg/kg	Mean	(b)
	Benzo(k)fluoranthene	mg/kg	1.9E-01	3.9E-01 (N)	9.9E-02 J	9.9E-02	mg/kg	Max	(c)
	Indeno(1,2,3-cd)pyrene	mg/kg	2.3E-01	4.0E-01 (N)	6.0E-02 J	6.0E-02	mg/kg	Max	(c)
	Phenanthrene	mg/kg	2.4E-01	3.9E-01 (N)	1.3E-01 J	1.3E-01	mg/kg	Max	(c)
	Antimony	mg/kg	3.4E+00	5.9E+00 (N)	9.1E+00 J	5.9E+00	mg/kg	95% UCL - N	(d)
	Arsenic	mg/kg	1.4E+02	2.4E+02 (N)	2.9E+02 J	2.4E+02	mg/kg	95% UCL - N	(d)
	Barium	mg/kg	4.2E+01	6.2E+01 (N)	7.8E+01	6.2E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	3.3E+00	5.6E+00 (N)	7.4E+00 J	5.6E+00	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	5.7E+02	4.2E+03 (G)	2.2E+03 J	5.7E+02	mg/kg	Mean	(b)
	Copper	mg/kg	2.4E+02	4.0E+02 (N)	4.9E+02 J	4.0E+02	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	1.2E+02	2.0E+02 (N)	2.9E+02 J	2.0E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	3.9E+02	8.8E+02 (G)	7.8E+02	3.9E+02	mg/kg	Mean	(b)
	Mercury	mg/kg	1.9E+00	3.4E+00 (N)	5.6E+00 J	3.4E+00	mg/kg	95% UCL - N	(d)
	Nickel	mg/kg	1.0E+01	1.5E+01 (N)	2.2E+01	1.5E+01	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	2.0E+01	3.1E+01 (N)	4.2E+01	3.1E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	5.8E+02	9.3E+02 (N)	1.1E+03 J	9.3E+02	mg/kg	95% UCL - N	(d)
	Chromium VI	mg/kg	7.4E-01	5.4E+00 (G)	2.9E+00 J	7.4E-01	mg/kg	Mean	(b)

TABLE 3-3.3.CT
EXPOSURE POINT CONCENTRATION SUMMARY
CENTRAL TENDENCY EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station 09									
	Benzo(a)anthracene	mg/kg	2.1E-01	4.8E-01 (T)	1.0E+00	4.8E-01	mg/kg	95% UCL - T	(e)
	Benzo(a)pyrene	mg/kg	2.1E-01	5.0E-01 (T)	1.1E+00	5.0E-01	mg/kg	95% UCL - T	(e)
	Benzo(b)fluoranthene	mg/kg	4.0E-01	1.3E+00 (NP)	2.3E+00	1.3E+00	mg/kg	95% UCL - NP	(f)
	Benzo(k)fluoranthene	mg/kg	3.6E-01	1.2E+00 (NP)	2.1E+00	1.2E+00	mg/kg	95% UCL - NP	(f)
	Dibenz(a,h)anthracene	mg/kg	2.1E-01	2.3E-01 (NP)	8.0E-02 J	8.0E-02	mg/kg	Max	(c)
	Indeno(1,2,3-cd)pyrene	mg/kg	1.9E-01	2.5E-01 (N)	3.7E-01 J	2.5E-01	mg/kg	95% UCL - N	(d)
	Phenanthrene	mg/kg	3.1E-01	2.1E+00 (NP)	1.9E+00	3.1E-01	mg/kg	Mean	(b)
	Antimony	mg/kg	8.1E-01	1.0E+00 (N)	1.3E+00	1.0E+00	mg/kg	95% UCL - N	(d)
	Arsenic	mg/kg	2.9E+01	3.5E+01 (N)	4.9E+01 J	3.5E+01	mg/kg	95% UCL - N	(d)
	Barium	mg/kg	2.1E+01	3.3E+01 (G)	7.4E+01	3.3E+01	mg/kg	95% UCL - G	(h)
	Cadmium	mg/kg	4.9E-01	6.8E-01 (G)	1.2E+00 J	6.8E-01	mg/kg	95% UCL - G	(h)
	Chromium	mg/kg	4.5E+01	5.9E+01 (N)	9.2E+01 J	5.9E+01	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	4.7E+01	6.3E+01 (N)	1.0E+02 J	6.3E+01	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	3.0E+01	4.4E+01 (N)	8.7E+01	4.4E+01	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	3.6E+02	2.9E+03 (NP)	2.6E+03 J	3.6E+02	mg/kg	Mean	(b)
	Mercury	mg/kg	2.6E-01	3.9E-01 (N)	6.8E-01 J	3.9E-01	mg/kg	95% UCL - N	(d)
	Nickel	mg/kg	8.0E+00	9.7E+00 (G)	1.3E+01	9.7E+00	mg/kg	95% UCL - G	(h)
	Thallium	mg/kg	9.2E-01	1.3E+00 (N)	2.4E+00	1.3E+00	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	1.1E+01	1.4E+01 (N)	1.9E+01	1.4E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	1.6E+02	2.4E+02 (G)	4.8E+02 J	2.4E+02	mg/kg	95% UCL - G	(h)
Station AM									
	Antimony	mg/kg	2.0E+00	N/A (<4)	2.0E+00 J	2.0E+00	mg/kg	Max	(c)
	Arsenic	mg/kg	1.2E+02	N/A (<4)	1.2E+02	1.2E+02	mg/kg	Max	(c)
	Barium	mg/kg	5.8E+01	N/A (<4)	5.8E+01	5.8E+01	mg/kg	Max	(c)
	Cadmium	mg/kg	3.9E+00	N/A (<4)	3.9E+00	3.9E+00	mg/kg	Max	(c)
	Chromium	mg/kg	3.2E+02	N/A (<4)	3.2E+02	3.2E+02	mg/kg	Max	(c)
	Copper	mg/kg	2.0E+02	N/A (<4)	2.0E+02	2.0E+02	mg/kg	Max	(c)
	Lead	mg/kg	1.5E+02	N/A (<4)	1.5E+02	1.5E+02	mg/kg	Max	(c)
	Manganese	mg/kg	1.1E+03	N/A (<4)	1.1E+03 J	1.1E+03	mg/kg	Max	(c)
	Mercury	mg/kg	1.9E+00	N/A (<4)	1.9E+00	1.9E+00	mg/kg	Max	(c)
	Nickel	mg/kg	1.8E+01	N/A (<4)	1.8E+01 J	1.8E+01	mg/kg	Max	(c)
	Thallium	mg/kg	4.4E-01	N/A (<4)	4.4E-01 J	4.4E-01	mg/kg	Max	(c)
	Vanadium	mg/kg	2.7E+01	N/A (<4)	2.7E+01	2.7E+01	mg/kg	Max	(c)
	Zinc	mg/kg	9.4E+02	N/A (<4)	9.4E+02	9.4E+02	mg/kg	Max	(c)

TABLE 3-3.3.CT
EXPOSURE POINT CONCENTRATION SUMMARY
CENTRAL TENDENCY EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station KF									
	Arsenic	mg/kg	3.8E+01	5.2E+01 (N)	9.0E+01	5.2E+01	mg/kg	95% UCL - N	(d)
	Barium	mg/kg	3.3E+01	4.1E+01 (N)	5.5E+01	4.1E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	5.6E-01	1.0E+00 (G)	1.1E+00	1.0E+00	mg/kg	95% UCL - G	(h)
	Chromium	mg/kg	6.7E+01	8.8E+01 (N)	1.1E+02	8.8E+01	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	7.9E+01	1.1E+02 (N)	1.9E+02	1.1E+02	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	9.7E+01	1.3E+02 (N)	1.9E+02	1.3E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	2.9E+02	3.6E+02 (N)	5.0E+02	3.6E+02	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	5.1E-01	8.9E-01 (G)	1.6E+00 J	8.9E-31	mg/kg	95% UCL - G	(h)
	Nickel	mg/kg	6.7E+00	9.0E+00 (N)	1.3E+01	9.0E+00	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	1.9E+01	2.3E+01 (N)	3.0E+01	2.3E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	2.8E+02	3.5E+02 (N)	4.6E+02	3.5E+02	mg/kg	95% UCL - N	(d)
Station 08									
	Benzo(a)anthracene	mg/kg	4.8E-01	N/A (<4)	6.8E-01	4.8E-01	mg/kg	Mean	(b)
	Benzo(a)pyrene	mg/kg	6.3E-01	N/A (<4)	9.4E-01	6.3E-01	mg/kg	Mean	(b)
	Benzo(b)fluoranthene	mg/kg	1.3E+00	N/A (<4)	1.9E+00	1.3E+00	mg/kg	Mean	(b)
	Benzo(k)fluoranthene	mg/kg	1.4E+00	N/A (<4)	2.0E+00	1.4E+00	mg/kg	Mean	(b)
	Dibenz(a,h)anthracene	mg/kg	9.3E-02	N/A (<4)	1.6E-01 J	9.3E-02	mg/kg	Mean	(b)
	Indeno(1,2,3-cd)pyrene	mg/kg	4.0E-01	N/A (<4)	6.8E-01	4.0E-01	mg/kg	Mean	(b)
	Phenanthrene	mg/kg	4.8E-01	N/A (<4)	6.1E-01	4.8E-01	mg/kg	Mean	(b)
	Antimony	mg/kg	1.0E+00	N/A (<4)	1.6E+00	1.0E+00	mg/kg	Mean	(b)
	Arsenic	mg/kg	1.9E+01	N/A (<4)	2.9E+01 J	1.9E+01	mg/kg	Mean	(b)
	Barium	mg/kg	1.9E+01	N/A (<4)	2.1E+01	1.9E+01	mg/kg	Mean	(b)
	Chromium	mg/kg	5.4E+01	N/A (<4)	1.2E+02 J	5.4E+01	mg/kg	Mean	(b)
	Copper	mg/kg	7.4E+01	N/A (<4)	1.3E+02 J	7.4E+01	mg/kg	Mean	(b)
	Lead	mg/kg	4.3E+01	N/A (<4)	7.1E+01	4.3E+01	mg/kg	Mean	(b)
	Manganese	mg/kg	1.6E+02	N/A (<4)	2.3E+02 J	1.6E+02	mg/kg	Mean	(b)
	Mercury	mg/kg	4.6E-01	N/A (<4)	1.0E+00 J	4.6E-01	mg/kg	Mean	(b)
	Nickel	mg/kg	1.2E+01	N/A (<4)	2.0E+01	1.2E+01	mg/kg	Mean	(b)
	Thallium	mg/kg	1.4E+00	N/A (<4)	1.7E+00	1.4E+00	mg/kg	Mean	(b)
	Vanadium	mg/kg	1.5E+01	N/A (<4)	1.8E+01	1.5E+01	mg/kg	Mean	(b)
	Zinc	mg/kg	3.5E+02	N/A (<4)	5.4E+02 J	3.5E+02	mg/kg	Mean	(b)

TABLE 3-3.3.CT
EXPOSURE POINT CONCENTRATION SUMMARY
CENTRAL TENDENCY EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station 07/DP									
	Trichloroethene	mg/kg	1.5E-02	2.2E-02 (G)	3.5E-02 J	2.2E-02	mg/kg	95% UCL - G	(h)
	Benzo(a)anthracene	mg/kg	3.8E+00	5.6E+00 (N)	9.6E+00	5.6E+00	mg/kg	95% UCL - N	(d)
	Benzo(a)pyrene	mg/kg	3.8E+00	5.5E+00 (N)	1.0E+01	5.5E+00	mg/kg	95% UCL - N	(d)
	Benzo(b)fluoranthene	mg/kg	6.6E+00	9.5E+00 (N)	1.6E+01 J	9.5E+00	mg/kg	95% UCL - N	(d)
	Benzo(k)fluoranthene	mg/kg	5.0E+00	9.2E+00 (G)	1.4E+01 J	9.2E+00	mg/kg	95% UCL - G	(h)
	Dibenz(a,h)anthracene	mg/kg	5.5E-01	1.1E+00 (G)	2.0E+00	1.1E+00	mg/kg	95% UCL - G	(h)
	Indeno(1,2,3-cd)pyrene	mg/kg	1.9E+00	3.9E+00 (G)	6.9E+00	3.9E+00	mg/kg	95% UCL - G	(h)
	Phenanthrene	mg/kg	3.7E+00	6.8E+00 (G)	1.2E+01	6.8E+00	mg/kg	95% UCL - G	(h)
	Aroclor 1260	mg/kg	5.1E-02	6.6E-02 (N)	7.4E-02	6.6E-02	mg/kg	95% UCL - N	(d)
	Antimony	mg/kg	1.9E+00	2.3E+00 (N)	3.1E+00	2.3E+00	mg/kg	95% UCL - N	(d)
	Arsenic	mg/kg	5.7E+01	8.0E+01 (N)	1.3E+02 J	8.0E+01	mg/kg	95% UCL - N	(d)
	Barium	mg/kg	6.4E+01	8.4E+01 (N)	1.2E+02	8.4E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	3.3E+00	5.1E+00 (N)	1.0E+01	5.1E+00	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	1.8E+02	2.5E+02 (N)	4.4E+02 J	2.5E+02	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	1.6E+02	2.3E+02 (N)	3.6E+02 J	2.3E+02	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	2.5E+02	3.5E+02 (N)	4.8E+02	3.5E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	3.2E+02	4.2E+02 (N)	6.0E+02 J	4.2E+02	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	1.4E+00	2.8E+00 (G)	5.7E+00 J	2.8E+00	mg/kg	95% UCL - G	(h)
	Nickel	mg/kg	2.2E+01	2.7E+01 (N)	3.8E+01	2.7E+01	mg/kg	95% UCL - N	(d)
	Thallium	mg/kg	1.6E+00	2.2E+00 (N)	3.8E+00	2.2E+00	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	4.0E+01	5.2E+01 (N)	7.9E+01	5.2E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	9.3E+02	1.3E+03 (N)	2.5E+03 J	1.3E+03	mg/kg	95% UCL - N	(d)

TABLE 3-3 3.CT
EXPOSURE POINT CONCENTRATION SUMMARY
CENTRAL TENDENCY EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station LP									
	Antimony	mg/kg	1.2E+00	1.7E+00 (NP)	5.1E+00 J	1.7E+00	mg/kg	95% UCL - NP	(f)
	Arsenic	mg/kg	7.0E+01	1.5E+02 (T)	4.9E+02 J	1.5E+02	mg/kg	95% UCL - T	(e)
	Barium	mg/kg	3.0E+01	3.7E+01 (N)	6.9E+01	3.7E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	1.9E+00	2.6E+00 (N)	5.6E+00 J	2.6E+00	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	5.2E+01	7.7E+01 (G)	1.3E+02	7.7E+01	mg/kg	95% UCL - G	(h)
	Copper	mg/kg	1.9E+02	3.7E+02 (G)	1.6E+03 J	3.7E+02	mg/kg	95% UCL - G	(h)
	Lead	mg/kg	8.3E+01	1.4E+02 (G)	4.0E+02 J	1.4E+02	mg/kg	95% UCL - G	(h)
	Manganese	mg/kg	1.7E+02	2.1E+02 (N)	3.3E+02	2.1E+02	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	4.6E-01	7.3E-01 (G)	1.4E+00	7.3E-01	mg/kg	95% UCL - G	(h)
	Nickel	mg/kg	9.7E+00	1.4E+01 (G)	3.1E+01	1.4E+01	mg/kg	95% UCL - G	(h)
	Thallium	mg/kg	1.6E+00	1.9E+00 (N)	2.9E+00 J	1.9E+00	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	1.6E+01	2.1E+01 (G)	4.0E+01	2.1E+01	mg/kg	95% UCL - G	(h)
	Zinc	mg/kg	7.0E+02	1.3E+03 (G)	2.8E+03	1.3E+03	mg/kg	95% UCL - G	(h)
Station AS									
	Antimony	mg/kg	2.5E+00	N/A (<4)	2.9E+00 J	2.5E+00	mg/kg	Mean	(b)
	Arsenic	mg/kg	1.2E+02	N/A (<4)	1.2E+02	1.2E+02	mg/kg	Mean	(b)
	Barium	mg/kg	1.0E+02	N/A (<4)	1.1E+02	1.0E+02	mg/kg	Mean	(b)
	Cadmium	mg/kg	1.2E+01	N/A (<4)	1.3E+01	1.2E+01	mg/kg	Mean	(b)
	Chromium	mg/kg	7.5E+02	N/A (<4)	9.2E+02	7.5E+02	mg/kg	Mean	(b)
	Copper	mg/kg	5.1E+02	N/A (<4)	5.6E+02	5.1E+02	mg/kg	Mean	(b)
	Lead	mg/kg	5.7E+02	N/A (<4)	6.6E+02	5.7E+02	mg/kg	Mean	(b)
	Manganese	mg/kg	3.8E+02	N/A (<4)	3.8E+02 J	3.8E+02	mg/kg	Mean	(b)
	Mercury	mg/kg	3.1E+00	N/A (<4)	3.1E+00	3.1E+00	mg/kg	Mean	(b)
	Nickel	mg/kg	3.7E+01	N/A (<4)	3.9E+01 J	3.7E+01	mg/kg	Mean	(b)
	Thallium	mg/kg	1.1E+00	N/A (<4)	1.2E+00 J	1.1E+00	mg/kg	Mean	(b)
	Vanadium	mg/kg	6.6E+01	N/A (<4)	7.3E+01	6.6E+01	mg/kg	Mean	(b)
	Zinc	mg/kg	2.2E+03	N/A (<4)	2.3E+03	2.2E+03	mg/kg	Mean	(b)

TABLE 3-3.3.CT
EXPOSURE POINT CONCENTRATION SUMMARY
CENTRAL TENDENCY EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station 05									
	Benzo(a)anthracene	mg/kg	4.3E-01	N/A (<4)	2.3E+00 J	4.3E-01	mg/kg	Mean	(b)
	Benzo(a)pyrene	mg/kg	3.5E-01	N/A (<4)	2.5E+00 J	3.5E-01	mg/kg	Mean	(b)
	Benzo(b)fluoranthene	mg/kg	3.5E-01	N/A (<4)	3.0E+00 J	3.5E-01	mg/kg	Mean	(b)
	Benzo(k)fluoranthene	mg/kg	2.5E-01	N/A (<4)	1.9E+00 J	2.5E-01	mg/kg	Mean	(b)
	Indeno(1,2,3-cd)pyrene	mg/kg	1.7E-01	N/A (<4)	1.2E+00 J	1.7E-01	mg/kg	Mean	(b)
	Phenanthrene	mg/kg	6.8E-01	N/A (<4)	2.2E+00 J	6.8E-01	mg/kg	Mean	(b)
	Antimony	mg/kg	9.4E-01	N/A (<4)	1.8E+00 J	9.4E-01	mg/kg	Mean	(b)
	Arsenic	mg/kg	8.3E+00	N/A (<4)	2.5E+01	8.3E+00	mg/kg	Mean	(b)
	Barium	mg/kg	3.5E+01	N/A (<4)	4.3E+01	3.5E+01	mg/kg	Mean	(b)
	Cadmium	mg/kg	2.2E-01	N/A (<4)	1.6E+00	2.2E-01	mg/kg	Mean	(b)
	Chromium	mg/kg	3.4E+01	N/A (<4)	1.5E+02	3.4E+01	mg/kg	Mean	(b)
	Copper	mg/kg	2.5E+01	N/A (<4)	6.0E+01	2.5E+01	mg/kg	Mean	(b)
	Lead	mg/kg	2.7E+02	N/A (<4)	1.5E+02	1.5E+02	mg/kg	Max	(c)
	Manganese	mg/kg	4.2E+02	N/A (<4)	9.5E+02	4.2E+02	mg/kg	Mean	(b)
	Mercury	mg/kg	9.0E-02	N/A (<4)	1.2E+00 J	9.0E-02	mg/kg	Mean	(b)
	Nickel	mg/kg	1.0E+01	N/A (<4)	1.1E+01	1.0E+01	mg/kg	Mean	(b)
	Thallium	mg/kg	6.1E-01	N/A (<4)	9.7E-01	6.1E-01	mg/kg	Mean	(b)
	Vanadium	mg/kg	1.9E+01	N/A (<4)	1.9E+01	1.9E+01	mg/kg	Mean	(b)
	Zinc	mg/kg	1.2E+02	N/A (<4)	5.7E+02	1.2E+02	mg/kg	Mean	(b)

TABLE 3-3.3 CT

EXPOSURE POINT CONCENTRATION SUMMARY

CENTRAL TENDENCY EXPOSURE

WELLS G&H SUPERFUND SITE OU3

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)
Station 03									
	Benzo(a)anthracene	mg/kg	5.7E-01	N/A (<4)	1.3E+00	5.7E-01	mg/kg	Mean	(b)
	Benzo(a)pyrene	mg/kg	4.7E-01	N/A (<4)	1.0E+00	4.7E-01	mg/kg	Mean	(b)
	Benzo(b)fluoranthene	mg/kg	6.0E-01	N/A (<4)	1.4E+00	6.0E-01	mg/kg	Mean	(b)
	Benzo(k)fluoranthene	mg/kg	3.5E-01	N/A (<4)	6.4E-01	3.5E-01	mg/kg	Mean	(b)
	Dibenz(a,h)anthracene	mg/kg	1.7E-01	N/A (<4)	1.1E-01	1.1E-01	mg/kg	Max	(c)
	Indeno(1,2,3-cd)pyrene	mg/kg	3.4E-01	N/A (<4)	6.2E-01	3.4E-01	mg/kg	Mean	(b)
	Phenanthrene	mg/kg	4.7E-01	N/A (<4)	1.0E+00	4.7E-01	mg/kg	Mean	(b)
	Aroclor 1260	mg/kg	5.0E-02	N/A (<4)	1.1E-01	5.0E-02	mg/kg	Mean	(b)
	Antimony	mg/kg	8.0E-01	N/A (<4)	1.7E+00 J	8.0E-01	mg/kg	Mean	(b)
	Arsenic	mg/kg	3.3E+01	N/A (<4)	8.7E+01	3.3E+01	mg/kg	Mean	(b)
	Barium	mg/kg	3.5E+01	N/A (<4)	8.5E+01	3.5E+01	mg/kg	Mean	(b)
	Cadmium	mg/kg	1.7E+00	N/A (<4)	5.2E+00	1.7E+00	mg/kg	Mean	(b)
	Chromium	mg/kg	7.3E+01	N/A (<4)	2.0E+02 J	7.3E+01	mg/kg	Mean	(b)
	Copper	mg/kg	6.2E+01	N/A (<4)	1.7E+02	6.2E+01	mg/kg	Mean	(b)
	Lead	mg/kg	1.2E+02	N/A (<4)	3.5E+02 J	1.2E+02	mg/kg	Mean	(b)
	Manganese	mg/kg	2.1E+02	N/A (<4)	5.0E+02	2.1E+02	mg/kg	Mean	(b)
	Mercury	mg/kg	2.6E-01	N/A (<4)	7.1E-01	2.6E-01	mg/kg	Mean	(b)
	Nickel	mg/kg	1.2E+01	N/A (<4)	2.7E+01 J	1.2E+01	mg/kg	Mean	(b)
	Vanadium	mg/kg	2.2E+01	N/A (<4)	4.9E+01	2.2E+01	mg/kg	Mean	(b)
	Zinc	mg/kg	5.2E+02	N/A (<4)	1.4E+03 J	5.2E+02	mg/kg	Mean	(b)

TABLE 3-3.3 CT
EXPOSURE POINT CONCENTRATION SUMMARY
CENTRAL TENDENCY EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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)
Station 01									
	Benzo(a)anthracene	mg/kg	1.9E-01	2.5E-01 (N)	2.5E-01 J	1.9E-01	mg/kg	Mean	(b)
	Benzo(a)pyrene	mg/kg	1.7E-01	2.4E-01 (NP)	2.1E-01 J	1.7E-01	mg/kg	Mean	(b)
	Benzo(b)fluoranthene	mg/kg	1.7E-01	2.2E-01 (N)	1.7E-01 J	1.7E-01	mg/kg	Mean	(b)
	Benzo(k)fluoranthene	mg/kg	1.8E-01	2.4E-01 (NP)	2.1E-01 J	1.8E-01	mg/kg	Mean	(b)
	Indeno(1,2,3-cd)pyrene	mg/kg	1.9E-01	2.2E-01 (N)	1.2E-01 J	1.2E-01	mg/kg	Max	(c)
	Phenanthrene	mg/kg	3.0E-01	4.6E-01 (N)	5.0E-01 J	4.6E-01	mg/kg	95% UCL - N	(d)
	Antimony	mg/kg	4.9E-01	8.8E-01 (N)	9.4E-01 J	8.8E-01	mg/kg	95% UCL - N	(d)
	Arsenic	mg/kg	4.6E+00	6.2E+00 (N)	6.2E+00	6.2E+00	mg/kg	95% UCL - N	(d)
	Barium	mg/kg	1.1E+01	1.2E+01 (N)	1.3E+01	1.2E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	7.8E-02	1.7E-01 (N)	1.8E-01	1.7E-01	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	8.3E+00	1.0E+01 (N)	9.8E+00	8.3E+00	mg/kg	Mean	(b)
	Copper	mg/kg	1.2E+01	1.7E+01 (N)	1.7E+01	1.2E+01	mg/kg	Mean	(b)
	Lead	mg/kg	1.9E+01	3.6E+01 (N)	4.0E+01 J	3.6E+01	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	8.2E+01	1.0E+02 (N)	1.0E+02	8.2E+01	mg/kg	Mean	(b)
	Nickel	mg/kg	6.4E+00	7.6E+00 (N)	7.2E+00	6.4E+00	mg/kg	Mean	(b)
	Thallium	mg/kg	4.0E-01	5.2E-01 (N)	5.4E-01	5.2E-01	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	9.6E+00	1.2E+01 (N)	1.2E+01	9.6E+00	mg/kg	Mean	(b)
	Zinc	mg/kg	1.0E+02	1.6E+02 (N)	1.5E+02	1.0E+02	mg/kg	Mean	(b)

(1) Refer to Appendix C.1 for station sample groupings; only COPCs selected on Table 3-2.2 and detected at each station 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

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 3-3.4.RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
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)
Station NR									
	Arsenic	mg/kg	1.1E+02	2.0E+02 (N)	2.7E+02	2.0E+02	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	9.8E-01	2.1E+00 (N)	3.0E+00	2.1E+00	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	9.8E+01	1.7E+02 (N)	2.3E+02	1.7E+02	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	9.7E+01	1.7E+02 (N)	2.3E+02	1.7E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	3.1E+02	8.8E+02 (G)	8.3E+02	8.3E+02	mg/kg	Max	(g)
	Mercury	mg/kg	8.0E-01	2.0E+00 (G)	2.0E+00	2.0E+00	mg/kg	Max	(g)
	Vanadium	mg/kg	1.6E+01	2.5E+01 (N)	3.2E+01	2.5E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	2.9E+02	5.3E+02 (N)	7.1E+02 J	5.3E+02	mg/kg	95% UCL - N	(d)
Station WS/WSS									
	Arsenic	mg/kg	8.9E+00	1.0E+01 (T)	1.1E+01	1.0E+01	mg/kg	95% UCL - T	(e)
	Cadmium	mg/kg	2.0E-01	4.6E-01 (NP)	3.7E-01 J	3.7E-01	mg/kg	Max	(g)
	Chromium	mg/kg	1.3E+01	1.8E+01 (N)	2.0E+01	1.8E+01	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	2.7E+01	3.4E+01 (N)	3.4E+01 J	3.4E+01	mg/kg	Max	(g)
	Manganese	mg/kg	1.5E+02	1.9E+02 (N)	2.0E+02	1.9E+02	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	1.0E-01	1.2E-01 (N)	1.3E-01 J	1.2E-01	mg/kg	95% UCL - N	(d)
	Thallium	mg/kg	7.7E-01	1.2E+00 (N)	1.5E+00 J	1.2E+00	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	1.9E+01	2.4E+01 (N)	2.4E+01	2.4E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	5.4E+01	7.2E+01 (N)	8.2E+01 J	7.2E+01	mg/kg	95% UCL - N	(d)
Station CB-05									
	Arsenic	mg/kg	3.0E+01	6.0E+01 (NP)	8.6E+01	6.0E+01	mg/kg	95% UCL - NP	(f)
	Cadmium	mg/kg	4.9E-01	6.8E-01 (N)	1.1E+00	6.8E-01	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	5.6E+01	1.4E+02 (T)	2.1E+02	1.4E+02	mg/kg	95% UCL - T	(e)
	Copper	mg/kg	4.0E+01	5.0E+01 (T)	8.3E+01	5.0E+01	mg/kg	95% UCL - T	(e)
	Manganese	mg/kg	1.9E+02	2.3E+02 (N)	3.1E+02	2.3E+02	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	1.7E-01	2.9E-01 (T)	6.0E-01	2.9E-01	mg/kg	95% UCL - T	(e)
	Thallium	mg/kg	7.8E-01	1.6E+00 (NP)	1.9E+00 J	1.6E+00	mg/kg	95% UCL - NP	(f)
	Vanadium	mg/kg	2.3E+01	2.6E+01 (N)	3.5E+01	2.6E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	1.3E+02	1.7E+02 (N)	2.6E+02	1.7E+02	mg/kg	95% UCL - N	(d)

TABLE 3-3.4.RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
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)
Station DA									
	Arsenic	mg/kg	9.9E+01	2.0E+02 (N)	2.7E+02 J	2.0E+02	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	1.4E+00	6.9E+00 (G)	4.6E+00 J	4.6E+00	mg/kg	Max	(g)
	Chromium	mg/kg	1.9E+02	3.9E+02 (N)	5.5E+02 J	3.9E+02	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	1.5E+02	2.5E+02 (N)	3.2E+02 J	2.5E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	7.9E+02	4.9E+03 (G)	2.9E+03	2.9E+03	mg/kg	Max	(g)
	Mercury	mg/kg	1.2E+00	3.8E+00 (G)	3.4E+00	3.4E+00	mg/kg	Max	(g)
	Thallium	mg/kg	1.5E+00	3.3E+00 (G)	3.4E+00	3.3E+00	mg/kg	95% UCL - G	(h)
	Vanadium	mg/kg	2.7E+01	3.8E+01 (N)	4.2E+01	3.8E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	2.7E+02	5.9E+02 (N)	8.4E+02	5.9E+02	mg/kg	95% UCL - N	(d)
Station KF									
	Arsenic	mg/kg	4.0E+01	4.6E+01 (N)	5.5E+01	4.6E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	1.0E+00	1.4E+00 (N)	2.1E+00 J	1.4E+00	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	1.0E+02	1.2E+02 (N)	1.4E+02	1.2E+02	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	9.1E+01	1.1E+02 (N)	1.4E+02	1.1E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	6.4E+02	8.3E+02 (N)	1.3E+03	8.3E+02	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	5.9E-01	6.9E-01 (N)	8.6E-01 J	6.9E-01	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	2.5E+01	2.9E+01 (N)	3.7E+01	2.9E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	3.3E+02	3.9E+02 (N)	4.9E+02	3.9E+02	mg/kg	95% UCL - N	(d)
Station 07/DP									
	Arsenic	mg/kg	3.3E+01	4.5E+01 (T)	2.2E+02	4.5E+01	mg/kg	95% UCL - T	(e)
	Cadmium	mg/kg	9.0E-02	1.9E-01 (NP)	6.5E-01 J	1.9E-01	mg/kg	95% UCL - NP	(f)
	Chromium	mg/kg	1.1E+02	1.4E+02 (G)	3.2E+02 J	1.4E+02	mg/kg	95% UCL - G	(h)
	Copper	mg/kg	8.0E+01	1.0E+02 (G)	3.0E+02	1.0E+02	mg/kg	95% UCL - G	(h)
	Manganese	mg/kg	2.6E+02	3.3E+02 (G)	8.2E+02	3.3E+02	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	7.7E-01	9.6E-01 (N)	2.4E+00	9.6E-01	mg/kg	95% UCL - N	(d)
	Thallium	mg/kg	1.6E+00	1.9E+00 (NP)	3.6E+00 J	1.9E+00	mg/kg	95% UCL - NP	(f)
	Vanadium	mg/kg	2.8E+01	3.1E+01 (G)	5.8E+01	3.1E+01	mg/kg	95% UCL - G	(h)
	Zinc	mg/kg	1.9E+03	1.9E+04 (NP)	4.5E+04	1.9E+04	mg/kg	95% UCL - NP	(f)

TABLE 3-3.4.RME

EXPOSURE POINT CONCENTRATION SUMMARY

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future

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)

(1) Refer to Appendix C.1 for station sample groupings; only COPCs selected on Table 3-2.3 and detected at each station 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.

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 3-3.4.CT
EXPOSURE POINT CONCENTRATION SUMMARY
CENTRAL TENDENCY EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
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)
Station NR									
	Arsenic	mg/kg	1.1E+02	2.0E+02 (N)	2.7E+02	2.0E+02	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	9.8E-01	2.1E+00 (N)	3.0E+00	2.1E+00	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	9.8E+01	1.7E+02 (N)	2.3E+02	1.7E+02	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	9.7E+01	1.7E+02 (N)	2.3E+02	1.7E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	3.1E+02	8.8E+02 (G)	8.3E+02	3.1E+02	mg/kg	Mean	(b)
	Mercury	mg/kg	8.0E-01	2.0E+00 (G)	2.0E+00	8.0E-01	mg/kg	Mean	(b)
	Vanadium	mg/kg	1.6E+01	2.5E+01 (N)	3.2E+01	2.5E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	2.9E+02	5.3E+02 (N)	7.1E+02 J	5.3E+02	mg/kg	95% UCL - N	(d)
Station WS/WSS									
	Arsenic	mg/kg	8.9E+00	1.0E+01 (T)	1.1E+01	1.0E+01	mg/kg	95% UCL - T	(e)
	Cadmium	mg/kg	2.0E-01	4.6E-01 (NP)	3.7E-01 J	2.0E-01	mg/kg	Mean	(b)
	Chromium	mg/kg	1.3E+01	1.8E+01 (N)	2.0E+01	1.8E+01	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	2.7E+01	3.4E+01 (N)	3.4E+01 J	2.7E+01	mg/kg	Mean	(b)
	Manganese	mg/kg	1.5E+02	1.9E+02 (N)	2.0E+02	1.9E+02	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	1.0E-01	1.2E-01 (N)	1.3E-01 J	1.2E-01	mg/kg	95% UCL - N	(d)
	Thallium	mg/kg	7.7E-01	1.2E+00 (N)	1.5E+00 J	1.2E+00	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	1.9E+01	2.4E+01 (N)	2.4E+01	2.4E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	5.4E+01	7.2E+01 (N)	8.2E+01 J	7.2E+01	mg/kg	95% UCL - N	(d)
Station CB-05									
	Arsenic	mg/kg	3.0E+01	6.0E+01 (NP)	8.6E+01	6.0E+01	mg/kg	95% UCL - NP	(f)
	Cadmium	mg/kg	4.9E-01	6.8E-01 (N)	1.1E+00	6.8E-01	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	5.6E+01	1.4E+02 (T)	2.1E+02	1.4E+02	mg/kg	95% UCL - T	(e)
	Copper	mg/kg	4.0E+01	5.0E+01 (T)	8.3E+01	5.0E+01	mg/kg	95% UCL - T	(e)
	Manganese	mg/kg	1.9E+02	2.3E+02 (N)	3.1E+02	2.3E+02	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	1.7E-01	2.9E-01 (T)	6.0E-01	2.9E-01	mg/kg	95% UCL - T	(e)
	Thallium	mg/kg	7.8E-01	1.6E+00 (NP)	1.9E+00 J	1.6E+00	mg/kg	95% UCL - NP	(f)
	Vanadium	mg/kg	2.3E+01	2.6E+01 (N)	3.5E+01	2.6E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	1.3E+02	1.7E+02 (N)	2.6E+02	1.7E+02	mg/kg	95% UCL - N	(d)

TABLE 3-3.4.CT
EXPOSURE POINT CONCENTRATION SUMMARY
CENTRAL TENDENCY EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
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)
Station DA									
	Arsenic	mg/kg	9.9E+01	2.0E+02 (N)	2.7E+02 J	2.0E+02	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	1.4E+00	6.9E+00 (G)	4.6E+00 J	1.4E+00	mg/kg	Mean	(b)
	Chromium	mg/kg	1.9E+02	3.9E+02 (N)	5.5E+02 J	3.9E+02	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	1.5E+02	2.5E+02 (N)	3.2E+02 J	2.5E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	7.9E+02	4.9E+03 (G)	2.9E+03	7.9E+02	mg/kg	Mean	(b)
	Mercury	mg/kg	1.2E+00	3.8E+00 (G)	3.4E+00	1.2E+00	mg/kg	Mean	(b)
	Thallium	mg/kg	1.5E+00	3.3E+00 (G)	3.4E+00	3.3E+00	mg/kg	95% UCL - G	(h)
	Vanadium	mg/kg	2.7E+01	3.8E+01 (N)	4.2E+01	3.8E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	2.7E+02	5.9E+02 (N)	8.4E+02	5.9E+02	mg/kg	95% UCL - N	(d)
Station KF									
	Arsenic	mg/kg	4.0E+01	4.6E+01 (N)	5.5E+01	4.6E+01	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	1.0E+00	1.4E+00 (N)	2.1E+00 J	1.4E+00	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	1.0E+02	1.2E+02 (N)	1.4E+02	1.2E+02	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	9.1E+01	1.1E+02 (N)	1.4E+02	1.1E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	6.4E+02	8.3E+02 (N)	1.3E+03	8.3E+02	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	5.9E-01	6.9E-01 (N)	8.6E-01 J	6.9E-01	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	2.5E+01	2.9E+01 (N)	3.7E+01	2.9E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	3.3E+02	3.9E+02 (N)	4.9E+02	3.9E+02	mg/kg	95% UCL - N	(d)
Station 07/DP									
	Arsenic	mg/kg	3.3E+01	4.5E+01 (T)	2.2E+02	4.5E+01	mg/kg	95% UCL - T	(e)
	Cadmium	mg/kg	9.0E-02	1.9E-01 (NP)	6.5E-01 J	1.9E-01	mg/kg	95% UCL - NP	(f)
	Chromium	mg/kg	1.1E+02	1.4E+02 (G)	3.2E+02 J	1.4E+02	mg/kg	95% UCL - G	(h)
	Copper	mg/kg	8.0E+01	1.0E+02 (G)	3.0E+02	1.0E+02	mg/kg	95% UCL - G	(h)
	Manganese	mg/kg	2.6E+02	3.3E+02 (G)	8.2E+02	3.3E+02	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	7.7E-01	9.6E-01 (N)	2.4E+00	9.6E-01	mg/kg	95% UCL - N	(d)
	Thallium	mg/kg	1.6E+00	1.9E+00 (NP)	3.6E+00 J	1.9E+00	mg/kg	95% UCL - NP	(f)
	Vanadium	mg/kg	2.8E+01	3.1E+01 (G)	5.8E+01	3.1E+01	mg/kg	95% UCL - G	(h)
	Zinc	mg/kg	1.9E+03	1.9E+04 (NP)	4.5E+04	1.9E+04	mg/kg	95% UCL - NP	(f)

TABLE 3-3.4.CT

EXPOSURE POINT CONCENTRATION SUMMARY

CENTRAL TENDENCY EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
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)

(1) Refer to Appendix C.1 for station sample groupings; only COPCs selected on Table 3-2.3 and detected at each station 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.

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 3-3.5.RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Surface Water
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)
Reach 3									
	4,4'-DDD	mg/kg	4.8E-03	6.7E-03 (N)	9.8E-03	6.7E-03	mg/kg	95% UCL - N	(d)
	4,4'-DDE	mg/kg	1.0E-02	1.6E-02 (G)	2.6E-02	1.6E-02	mg/kg	95% UCL - G	(h)
	4,4'-DDT	mg/kg	1.8E-03	2.8E-03 (N)	4.6E-03 J	2.8E-03	mg/kg	95% UCL - N	(d)
	Aldrin	mg/kg	4.6E-04	7.3E-04 (G)	3.2E-04 J	3.2E-04	mg/kg	Max	(g)
	alpha-Chlordane	mg/kg	4.2E-03	5.8E-03 (N)	8.9E-03 J	5.8E-03	mg/kg	95% UCL - N	(d)
	Aroclor-1254	mg/kg	1.6E-02	2.2E-02 (N)	3.6E-02 J	2.2E-02	mg/kg	95% UCL - N	(d)
	Aroclor-1260	mg/kg	4.0E-02	6.3E-02 (G)	1.1E-01	6.3E-02	mg/kg	95% UCL - G	(h)
	delta-BHC	mg/kg	5.4E-04	8.1E-04 (G)	5.8E-04 J	5.8E-04	mg/kg	Max	(g)
	Dieldrin	mg/kg	1.8E-03	2.2E-03 (N)	2.9E-03 J	2.2E-03	mg/kg	95% UCL - N	(d)
	Heptachlor epoxide	mg/kg	5.4E-04	8.5E-04 (G)	1.7E-03 J	8.5E-04	mg/kg	95% UCL - G	(h)
	Antimony	mg/kg	7.0E-02	9.5E-02 (NP)	1.6E-01	9.5E-02	mg/kg	95% UCL - NP	(f)
	Lead	mg/kg	3.9E-02	4.9E-02 (G)	6.2E-02 J	4.9E-02	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	1.0E-01	3.6E-01 (NP)	5.8E-01 J	3.6E-01	mg/kg	95% UCL - NP	(f)
	Selenium	mg/kg	4.7E-01	5.7E-01 (N)	7.8E-01 J	5.7E-01	mg/kg	95% UCL - N	(d)
Reaches 4 & 5									
	4,4'-DDD	mg/kg	6.2E-03	1.6E-02 (NP)	2.1E-02	1.6E-02	mg/kg	95% UCL - NP	(f)
	4,4'-DDE	mg/kg	3.0E-02	8.6E-02 (NP)	1.2E-01	8.6E-02	mg/kg	95% UCL - NP	(f)
	4,4'-DDT	mg/kg	3.9E-03	8.1E-03 (G)	1.9E-02	8.1E-03	mg/kg	95% UCL - G	(h)
	Aldrin	mg/kg	6.5E-04	1.6E-03 (NP)	5.3E-04 J	5.3E-04	mg/kg	Max	(g)
	alpha-Chlordane	mg/kg	2.0E-03	2.5E-03 (NP)	3.0E-03	2.5E-03	mg/kg	95% UCL - NP	(f)
	Aroclor-1254	mg/kg	5.0E-02	8.6E-02 (T)	1.4E-01	8.6E-02	mg/kg	95% UCL - T	(e)
	Aroclor-1260	mg/kg	8.4E-02	1.9E-01 (NP)	3.2E-01	1.9E-01	mg/kg	95% UCL - NP	(f)
	Dieldrin	mg/kg	1.5E-03	3.2E-03 (NP)	1.5E-03 J	1.5E-03	mg/kg	Max	(g)
	Antimony	mg/kg	6.0E-02	7.7E-02 (NP)	1.4E-01	7.7E-02	mg/kg	95% UCL - NP	(f)
	Lead	mg/kg	4.0E-02	4.7E-02 (NP)	7.2E-02 J	4.7E-02	mg/kg	95% UCL - NP	(f)
	Mercury	mg/kg	2.1E-01	3.0E-01 (T)	5.7E-01 J	3.0E-01	mg/kg	95% UCL - T	(e)
	Selenium	mg/kg	6.0E-01	6.8E-01 (N)	8.4E-01 J	6.8E-01	mg/kg	95% UCL - N	(d)

TABLE 3-3.5.RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Surface Water
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)
Reach 6									
	4,4'-DDD	mg/kg	1.3E-02	2.0E-02 (N)	2.7E-02	2.0E-02	mg/kg	95% UCL - N	(d)
	4,4'-DDE	mg/kg	3.6E-02	5.8E-02 (N)	8.3E-02	5.8E-02	mg/kg	95% UCL - N	(d)
	4,4'-DDT	mg/kg	2.8E-03	4.7E-03 (N)	6.7E-03 J	4.7E-03	mg/kg	95% UCL - N	(d)
	Aldrin	mg/kg	1.1E-03	1.7E-03 (N)	5.3E-04 J	5.3E-04	mg/kg	Max	(g)
	alpha-Chlordane	mg/kg	5.4E-03	8.3E-03 (G)	1.1E-02 J	8.3E-03	mg/kg	95% UCL - G	(h)
	Aroclor-1248	mg/kg	1.1E-02	1.7E-02 (N)	7.9E-03	7.9E-03	mg/kg	Max	(g)
	Aroclor-1254	mg/kg	7.7E-02	1.3E-01 (N)	1.8E-01	1.3E-01	mg/kg	95% UCL - N	(d)
	Aroclor-1260	mg/kg	5.2E-02	7.8E-02 (N)	1.1E-01	7.8E-02	mg/kg	95% UCL - N	(d)
	Dieldrin	mg/kg	2.1E-03	3.4E-03 (N)	2.3E-03 J	2.3E-03	mg/kg	Max	(g)
	Heptachlor epoxide	mg/kg	1.1E-03	1.7E-03 (N)	5.3E-04 J	5.3E-04	mg/kg	Max	(g)
	Arsenic	mg/kg	6.5E-02	1.6E-01 (NP)	1.7E-01	1.6E-01	mg/kg	95% UCL - NP	(f)
	Lead	mg/kg	4.2E-01	4.2E+00 (NP)	2.3E+00 J	2.3E+00	mg/kg	Max	(g)
	Mercury	mg/kg	1.5E-01	2.0E-01 (N)	2.0E-01 J	2.0E-01	mg/kg	Max	(g)
	Selenium	mg/kg	5.7E-01	6.2E-01 (N)	6.5E-01 J	6.2E-01	mg/kg	95% UCL - N	(d)

(1) Refer to Tables 3-2.4.1 through 3-2.4.3 for sample groupings; only COPCs selected on Table 3-2.4 and detected in each reach grouping 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.

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 3-3.5.CT
EXPOSURE POINT CONCENTRATION SUMMARY
CENTRAL TENDENCY EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Surface Water
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)
Reach 3									
	4,4'-DDD	mg/kg	4.8E-03	6.7E-03 (N)	9.8E-03	6.7E-03	mg/kg	95% UCL - N	(d)
	4,4'-DDE	mg/kg	1.0E-02	1.6E-02 (G)	2.6E-02	1.6E-02	mg/kg	95% UCL - G	(h)
	4,4'-DDT	mg/kg	1.8E-03	2.8E-03 (N)	4.6E-03 J	2.8E-03	mg/kg	95% UCL - N	(d)
	Aldrin	mg/kg	4.6E-04	7.3E-04 (G)	3.2E-04 J	3.2E-04	mg/kg	Max	(c)
	alpha-Chlordane	mg/kg	4.2E-03	5.8E-03 (N)	8.9E-03 J	5.8E-03	mg/kg	95% UCL - N	(d)
	Aroclor-1254	mg/kg	1.6E-02	2.2E-02 (N)	3.6E-02 J	2.2E-02	mg/kg	95% UCL - N	(d)
	Aroclor-1260	mg/kg	4.0E-02	6.3E-02 (G)	1.1E-01	6.3E-02	mg/kg	95% UCL - G	(h)
	delta-BHC	mg/kg	5.4E-04	8.1E-04 (G)	5.8E-04 J	5.4E-04	mg/kg	Mean	(b)
	Dieldrin	mg/kg	1.8E-03	2.2E-03 (N)	2.9E-03 J	2.2E-03	mg/kg	95% UCL - N	(d)
	Heptachlor epoxide	mg/kg	5.4E-04	8.5E-04 (G)	1.7E-03 J	8.5E-04	mg/kg	95% UCL - G	(h)
	Antimony	mg/kg	7.0E-02	9.5E-02 (NP)	1.6E-01	9.5E-02	mg/kg	95% UCL - NP	(f)
	Lead	mg/kg	3.9E-02	4.9E-02 (G)	6.2E-02 J	4.9E-02	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	1.0E-01	3.6E-01 (NP)	5.8E-01 J	3.6E-01	mg/kg	95% UCL - NP	(f)
	Selenium	mg/kg	4.7E-01	5.7E-01 (N)	7.8E-01 J	5.7E-01	mg/kg	95% UCL - N	(d)
Reaches 4 & 5									
	4,4'-DDD	mg/kg	6.2E-03	1.6E-02 (NP)	2.1E-02	1.6E-02	mg/kg	95% UCL - NP	(f)
	4,4'-DDE	mg/kg	3.0E-02	8.6E-02 (NP)	1.2E-01	8.6E-02	mg/kg	95% UCL - NP	(f)
	4,4'-DDT	mg/kg	3.9E-03	8.1E-03 (G)	1.9E-02	8.1E-03	mg/kg	95% UCL - G	(h)
	Aldrin	mg/kg	6.5E-04	1.6E-03 (NP)	5.3E-04 J	5.3E-04	mg/kg	Max	(c)
	alpha-Chlordane	mg/kg	2.0E-03	2.5E-03 (NP)	3.0E-03	2.5E-03	mg/kg	95% UCL - NP	(f)
	Aroclor-1254	mg/kg	5.0E-02	8.6E-02 (T)	1.4E-01	8.6E-02	mg/kg	95% UCL - T	(e)
	Aroclor-1260	mg/kg	6.4E-02	1.9E-01 (NP)	3.2E-01	1.9E-01	mg/kg	95% UCL - NP	(f)
	Dieldrin	mg/kg	1.5E-03	3.2E-03 (NP)	1.5E-03 J	1.5E-03	mg/kg	Mean	(b)
	Antimony	mg/kg	6.0E-02	7.7E-02 (NP)	1.4E-01	7.7E-02	mg/kg	95% UCL - NP	(f)
	Lead	mg/kg	4.0E-02	4.7E-02 (NP)	7.2E-02 J	4.7E-02	mg/kg	95% UCL - NP	(f)
	Mercury	mg/kg	2.1E-01	3.0E-01 (T)	5.7E-01 J	3.0E-01	mg/kg	95% UCL - T	(e)
	Selenium	mg/kg	6.0E-01	6.8E-01 (N)	8.4E-01 J	6.8E-01	mg/kg	95% UCL - N	(d)

TABLE 3-3.5.CT
EXPOSURE POINT CONCENTRATION SUMMARY
CENTRAL TENDENCY EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Surface Water
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)
Reach 6									
	4,4'-DDD	mg/kg	1.3E-02	2.0E-02 (N)	2.7E-02	2.0E-02	mg/kg	95% UCL - N	(d)
	4,4'-DDE	mg/kg	3.6E-02	5.8E-02 (N)	8.3E-02	5.8E-02	mg/kg	95% UCL - N	(d)
	4,4'-DDT	mg/kg	2.8E-03	4.7E-03 (N)	6.7E-03 J	4.7E-03	mg/kg	95% UCL - N	(d)
	Aldrin	mg/kg	1.1E-03	1.7E-03 (N)	5.3E-04 J	5.3E-04	mg/kg	Max	(c)
	alpha-Chlordane	mg/kg	5.4E-03	8.3E-03 (G)	1.1E-02 J	8.3E-03	mg/kg	95% UCL - G	(h)
	Aroclor-1248	mg/kg	1.1E-02	1.7E-02 (N)	7.9E-03	7.9E-03	mg/kg	Max	(c)
	Aroclor-1254	mg/kg	7.7E-02	1.3E-01 (N)	1.8E-01	1.3E-01	mg/kg	95% UCL - N	(d)
	Aroclor-1260	mg/kg	5.2E-02	7.8E-02 (N)	1.1E-01	7.8E-02	mg/kg	95% UCL - N	(d)
	Dieldrin	mg/kg	2.1E-03	3.4E-03 (N)	2.3E-03 J	2.1E-03	mg/kg	Mean	(b)
	Heptachlor epoxide	mg/kg	1.1E-03	1.7E-03 (N)	5.3E-04 J	5.3E-04	mg/kg	Max	(c)
	Arsenic	mg/kg	6.5E-02	1.6E-01 (NP)	1.7E-01	1.6E-01	mg/kg	95% UCL - NP	(f)
	Lead	mg/kg	4.2E-01	4.2E+00 (NP)	2.3E+00 J	4.2E-01	mg/kg	Mean	(b)
	Mercury	mg/kg	1.5E-01	2.0E-01 (N)	2.0E-01 J	1.5E-01	mg/kg	Mean	(b)
	Selenium	mg/kg	5.7E-01	6.2E-01 (N)	6.5E-01 J	6.2E-01	mg/kg	95% UCL - N	(d)

(1) Refer to Tables 3-2.4.1 through 3-2.4.3 for sample groupings; only COPCs selected on Table 3-2.4 and detected in each reach grouping 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.

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 3-3.6.RME

EXPOSURE POINT CONCENTRATION SUMMARY

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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)
AJRW									
	Arsenic	mg/kg	1.5E+01	1.9E+01 (NP)	2.9E+01	1.9E+01	mg/kg	95% UCL - NP	(f)
	Lead	mg/kg	1.9E+02	2.6E+02 (G)	4.7E+02	2.6E+02	mg/kg	95% UCL - G	(h)
	Manganese	mg/kg	1.9E+02	2.3E+02 (N)	3.3E+02	2.3E+02	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	5.3E-01	7.0E-01 (N)	1.0E+00	7.0E-01	mg/kg	95% UCL - N	(d)

(1) Refer to Appendix C.1 for station sample groupings; only COPCs selected on Table 3-2.5 and detected at each station 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.

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 3-3.6.CT
EXPOSURE POINT CONCENTRATION SUMMARY
CENTRAL TENDENCY EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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)
AJRW									
	Arsenic	mg/kg	1.5E+01	1.9E+01 (NP)	2.9E+01	1.9E+01	mg/kg	95% UCL - NP	(f)
	Lead	mg/kg	1.9E+02	2.6E+02 (G)	4.7E+02	2.6E+02	mg/kg	95% UCL - G	(h)
	Manganese	mg/kg	1.9E+02	2.3E+02 (N)	3.3E+02	2.3E+02	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	5.3E-01	7.0E-01 (N)	1.0E+00	7.0E-01	mg/kg	95% UCL - N	(d)

(1) Refer to Appendix C 1 for station sample groupings; only COPCs selected on Table 3-2.5 and detected at each station 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.

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 3-3.7 RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
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)
AJRW									
	Arsenic	mg/kg	4.6E+01	6.7E+01 (N)	9.8E+01	6.7E+01	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	4.0E+01	5.3E+01 (N)	9.0E+01	5.3E+01	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	3.0E+02	5.1E+02 (G)	9.3E+02	5.1E+02	mg/kg	95% UCL - G	(h)
	Manganese	mg/kg	2.3E+02	3.5E+02 (G)	6.0E+02	3.5E+02	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	4.3E-01	6.6E-01 (G)	1.2E+00	6.6E-01	mg/kg	95% UCL - G	(h)
	Vanadium	mg/kg	4.4E+01	5.2E+01 (N)	7.0E+01	5.2E+01	mg/kg	95% UCL - N	(d)

(1) Refer to Appendix C.1 for station sample groupings; only COPCs selected on Table 3-2.6 and detected at each station 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.

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 3-3.7.CT

EXPOSURE POINT CONCENTRATION SUMMARY

CENTRAL TENDENCY EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
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)
AJRW									
	Arsenic	mg/kg	4.6E+01	6.7E+01 (N)	9.8E+01	6.7E+01	mg/kg	95% UCL - N	(d)
	Chromium	mg/kg	4.0E+01	5.3E+01 (N)	9.0E+01	5.3E+01	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	3.0E+02	5.1E+02 (G)	9.3E+02	5.1E+02	mg/kg	95% UCL - G	(h)
	Manganese	mg/kg	2.3E+02	3.5E+02 (G)	6.0E+02	3.5E+02	mg/kg	95% UCL - G	(h)
	Mercury	mg/kg	4.3E-01	6.6E-01 (G)	1.2E+00	6.6E-01	mg/kg	95% UCL - G	(h)
	Vanadium	mg/kg	4.4E+01	5.2E+01 (N)	7.0E+01	5.2E+01	mg/kg	95% UCL - N	(d)

(1) Refer to Appendix C.1 for station sample groupings; only COPCs selected on Table 3-2.6 and detected at each station 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.

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 3-3.8.RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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)
SW-05-Baseflow									
	Arsenic	ug/L	2.1E+01	2.4E+01 (N)	2.8E+01	2.4E+01	ug/L	95% UCL - N	(d)
	Chromium	ug/L	7.8E+00	9.6E+00 (N)	1.4E+01	9.6E+00	ug/L	95% UCL - N	(d)
	Manganese	ug/L	5.9E+02	6.5E+02 (N)	7.6E+02	6.5E+02	ug/L	95% UCL - N	(d)
	Mercury	ug/L	5.4E-02	6.5E-02 (NP)	1.0E-01 J	6.5E-02	ug/L	95% UCL - NP	(f)
SW-05-Storm Event									
	Antimony	ug/L	1.8E+00	2.7E+00 (N)	3.9E+00	2.7E+00	ug/L	95% UCL - N	(d)
	Arsenic	ug/L	1.5E+01	1.9E+01 (N)	2.3E+01	1.9E+01	ug/L	95% UCL - N	(d)
	Chromium	ug/L	7.0E+00	1.0E+01 (N)	1.2E+01	1.0E+01	ug/L	95% UCL - N	(d)
	Manganese	ug/L	2.4E+02	4.0E+02 (G)	5.3E+02	4.0E+02	ug/L	95% UCL - G	(h)
	Mercury	ug/L	6.3E-02	9.0E-02 (NP)	1.3E-01 J	9.0E-02	ug/L	95% UCL - NP	(f)
SW-06-Baseflow									
	Arsenic	ug/L	1.2E+01	1.4E+01 (N)	1.9E+01	1.4E+01	ug/L	95% UCL - N	(d)
	Chromium	ug/L	4.1E+00	6.3E+00 (G)	1.3E+01	6.3E+00	ug/L	95% UCL - G	(h)
	Manganese	ug/L	5.1E+02	5.8E+02 (N)	7.6E+02	5.8E+02	ug/L	95% UCL - N	(d)
SW-06-Storm Event									
	Antimony	ug/L	1.5E+00	2.8E+00 (G)	3.9E+00	2.8E+00	ug/L	95% UCL - G	(h)
	Arsenic	ug/L	2.0E+01	2.4E+01 (N)	2.8E+01	2.4E+01	ug/L	95% UCL - N	(d)
	Chromium	ug/L	1.4E+01	2.0E+01 (N)	2.4E+01	2.0E+01	ug/L	95% UCL - N	(d)
	Lead	ug/L	8.9E+00	1.4E+01 (N)	1.6E+01	1.4E+01	ug/L	95% UCL - N	(d)
	Manganese	ug/L	3.1E+02	4.1E+02 (N)	4.9E+02	4.1E+02	ug/L	95% UCL - N	(d)
	Mercury	ug/L	8.0E-02	1.7E-01 (NP)	1.6E-01 J	1.6E-01	ug/L	Max	(g)
SW-07-Baseflow									
	Arsenic	ug/L	5.7E+00	6.4E+00 (N)	8.3E+00	6.4E+00	ug/L	95% UCL - N	(d)
	Manganese	ug/L	3.7E+02	4.4E+02 (N)	5.9E+02	4.4E+02	ug/L	95% UCL - N	(d)
SW-07-Storm Event									
	Arsenic	ug/L	9.7E+00	1.4E+01 (N)	1.8E+01	1.4E+01	ug/L	95% UCL - N	(d)
	Chromium	ug/L	5.8E+00	9.5E+00 (N)	1.3E+01	9.5E+00	ug/L	95% UCL - N	(d)
	Lead	ug/L	7.0E+00	1.2E+01 (N)	1.7E+01	1.2E+01	ug/L	95% UCL - N	(d)
	Manganese	ug/L	1.8E+02	2.4E+02 (N)	3.1E+02	2.4E+02	ug/L	95% UCL - N	(d)
	Mercury	ug/L	6.0E-02	8.0E-02 (NP)	1.1E-01 J	8.0E-02	ug/L	95% UCL - NP	(f)
SW-08-Baseflow									
	Arsenic	ug/L	3.5E+00	4.5E+00 (N)	6.4E+00	4.5E+00	ug/L	95% UCL - N	(d)
	Manganese	ug/L	2.5E+02	3.0E+02 (N)	4.3E+02	3.0E+02	ug/L	95% UCL - N	(d)

TABLE 3-3.8.RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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)
SW-08-Storm Event									
	Antimony	ug/L	1.2E+00	1.5E+00 (N)	1.8E+00	1.5E+00	ug/L	95% UCL - N	(d)
	Arsenic	ug/L	1.1E+01	2.7E+01 (T)	3.0E+01	2.7E+01	ug/L	95% UCL - T	(e)
	Chromium	ug/L	1.5E+01	4.8E+01 (G)	5.9E+01	4.8E+01	ug/L	95% UCL - G	(h)
	Lead	ug/L	2.3E+01	7.2E+01 (G)	8.3E+01	7.2E+01	ug/L	95% UCL - G	(h)
	Manganese	ug/L	3.4E+02	6.2E+02 (G)	8.1E+02	6.2E+02	ug/L	95% UCL - G	(h)
	Mercury	ug/L	9.5E-02	1.7E-01 (G)	2.4E-01	1.7E-01	ug/L	95% UCL - G	(h)
	Thallium	ug/L	1.5E+00	1.8E+00 (N)	2.2E+00	1.8E+00	ug/L	95% UCL - N	(d)
SW-09-Baseflow									
	Arsenic	ug/L	2.0E+00	2.7E+00 (G)	3.8E+00	2.7E+00	ug/L	95% UCL - G	(h)
	Manganese	ug/L	4.0E+01	5.7E+01 (G)	9.8E+01	5.7E+01	ug/L	95% UCL - G	(h)
SW-09-Storm Event									
	Antimony	ug/L	1.2E+00	1.8E+00 (N)	2.5E+00 J	1.8E+00	ug/L	95% UCL - N	(d)
	Arsenic	ug/L	2.6E+00	3.8E+00 (N)	4.2E+00	3.8E+00	ug/L	95% UCL - N	(d)
SW-10-Baseflow									
	Arsenic	ug/L	1.3E+00	1.8E+00 (N)	2.4E+00 J	1.8E+00	ug/L	95% UCL - N	(d)
	Mercury	ug/L	8.4E-02	2.2E-01 (NP)	3.8E-01	2.2E-01	ug/L	95% UCL - NP	(f)
SW-10-Storm Event									
	Arsenic	ug/L	1.4E+00	2.0E+00 (N)	2.8E+00 J	2.0E+00	ug/L	95% UCL - N	(d)
	Mercury	ug/L	5.8E-02	7.5E-02 (NP)	1.0E-01 J	7.5E-02	ug/L	95% UCL - NP	(f)

(1) Refer to Tables 3-2.7 for sample groupings; only COPCs selected on Table 3-2.7 and detected in each grouping 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.

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 3-3.8.CT
EXPOSURE POINT CONCENTRATION SUMMARY
CENTRAL TENDENCY EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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)
SW-05-Baseflow									
	Arsenic	ug/L	2.1E+01	2.4E+01 (N)	2.8E+01	2.4E+01	ug/L	95% UCL - N	(d)
	Chromium	ug/L	7.8E+00	9.6E+00 (N)	1.4E+01	9.6E+00	ug/L	95% UCL - N	(d)
	Manganese	ug/L	5.9E+02	6.5E+02 (N)	7.6E+02	6.5E+02	ug/L	95% UCL - N	(d)
	Mercury	ug/L	5.4E-02	6.5E-02 (NP)	1.0E-01 J	6.5E-02	ug/L	95% UCL - NP	(f)
SW-05-Storm Event									
	Antimony	ug/L	1.8E+00	2.7E+00 (N)	3.9E+00	2.7E+00	ug/L	95% UCL - N	(d)
	Arsenic	ug/L	1.5E+01	1.9E+01 (N)	2.3E+01	1.9E+01	ug/L	95% UCL - N	(d)
	Chromium	ug/L	7.0E+00	1.0E+01 (N)	1.2E+01	1.0E+01	ug/L	95% UCL - N	(d)
	Manganese	ug/L	2.4E+02	4.0E+02 (G)	5.3E+02	4.0E+02	ug/L	95% UCL - G	(h)
	Mercury	ug/L	6.3E-02	9.0E-02 (NP)	1.3E-01 J	9.0E-02	ug/L	95% UCL - NP	(f)
SW-06-Baseflow									
	Arsenic	ug/L	1.2E+01	1.4E+01 (N)	1.9E+01	1.4E+01	ug/L	95% UCL - N	(d)
	Chromium	ug/L	4.1E+00	6.3E+00 (G)	1.3E+01	6.3E+00	ug/L	95% UCL - G	(h)
	Manganese	ug/L	5.1E+02	5.8E+02 (N)	7.6E+02	5.8E+02	ug/L	95% UCL - N	(d)
SW-06-Storm Event									
	Antimony	ug/L	1.5E+00	2.8E+00 (G)	3.9E+00	2.8E+00	ug/L	95% UCL - G	(h)
	Arsenic	ug/L	2.0E+01	2.4E+01 (N)	2.6E+01	2.4E+01	ug/L	95% UCL - N	(d)
	Chromium	ug/L	1.4E+01	2.0E+01 (N)	2.4E+01	2.0E+01	ug/L	95% UCL - N	(d)
	Lead	ug/L	8.9E+00	1.4E+01 (N)	1.6E+01	1.4E+01	ug/L	95% UCL - N	(d)
	Manganese	ug/L	3.1E+02	4.1E+02 (N)	4.9E+02	4.1E+02	ug/L	95% UCL - N	(d)
	Mercury	ug/L	8.0E-02	1.7E-01 (NP)	1.6E-01 J	8.0E-02	ug/L	Mean	(b)
SW-07-Baseflow									
	Arsenic	ug/L	5.7E+00	6.4E+00 (N)	8.3E+00	6.4E+00	ug/L	95% UCL - N	(d)
	Manganese	ug/L	3.7E+02	4.4E+02 (N)	5.9E+02	4.4E+02	ug/L	95% UCL - N	(d)
SW-07-Storm Event									
	Arsenic	ug/L	9.7E+00	1.4E+01 (N)	1.8E+01	1.4E+01	ug/L	95% UCL - N	(d)
	Chromium	ug/L	5.8E+00	9.5E+00 (N)	1.3E+01	9.5E+00	ug/L	95% UCL - N	(d)
	Lead	ug/L	7.0E+00	1.2E+01 (N)	1.7E+01	1.2E+01	ug/L	95% UCL - N	(d)
	Manganese	ug/L	1.8E+02	2.4E+02 (N)	3.1E+02	2.4E+02	ug/L	95% UCL - N	(d)
	Mercury	ug/L	6.0E-02	8.0E-02 (NP)	1.1E-01 J	8.0E-02	ug/L	95% UCL - NP	(f)
SW-08-Baseflow									
	Arsenic	ug/L	3.5E+00	4.5E+00 (N)	6.4E+00	4.5E+00	ug/L	95% UCL - N	(d)
	Manganese	ug/L	2.5E+02	3.0E+02 (N)	4.3E+02	3.0E+02	ug/L	95% UCL - N	(d)

TABLE 3-3.8.CT
EXPOSURE POINT CONCENTRATION SUMMARY
CENTRAL TENDENCY EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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)
SW-08-Storm Event									
	Antimony	ug/L	1.2E+00	1.5E+00 (N)	1.8E+00	1.5E+00	ug/L	95% UCL - N	(d)
	Arsenic	ug/L	1.1E+01	2.7E+01 (T)	3.0E+01	2.7E+01	ug/L	95% UCL - T	(e)
	Chromium	ug/L	1.5E+01	4.8E+01 (G)	5.9E+01	4.8E+01	ug/L	95% UCL - G	(h)
	Lead	ug/L	2.3E+01	7.2E+01 (G)	8.3E+01	7.2E+01	ug/L	95% UCL - G	(h)
	Manganese	ug/L	3.4E+02	6.2E+02 (G)	8.1E+02	6.2E+02	ug/L	95% UCL - G	(h)
	Mercury	ug/L	9.5E-02	1.7E-01 (G)	2.4E-01	1.7E-01	ug/L	95% UCL - G	(h)
	Thallium	ug/L	1.5E+00	1.8E+00 (N)	2.2E+00	1.8E+00	ug/L	95% UCL - N	(d)
SW-09-Baseflow									
	Arsenic	ug/L	2.0E+00	2.7E+00 (G)	3.8E+00	2.7E+00	ug/L	95% UCL - G	(h)
	Manganese	ug/L	4.0E+01	5.7E+01 (G)	9.8E+01	5.7E+01	ug/L	95% UCL - G	(h)
SW-09-Storm Event									
	Antimony	ug/L	1.2E+00	1.8E+00 (N)	2.5E+00 J	1.8E+00	ug/L	95% UCL - N	(d)
	Arsenic	ug/L	2.6E+00	3.8E+00 (N)	4.2E+00	3.8E+00	ug/L	95% UCL - N	(d)
SW-10-Baseflow									
	Arsenic	ug/L	1.3E+00	1.8E+00 (N)	2.4E+00 J	1.8E+00	ug/L	95% UCL - N	(d)
	Mercury	ug/L	8.4E-02	2.2E-01 (NP)	3.6E-01	2.2E-01	ug/L	95% UCL - NP	(f)
SW-10-Storm Event									
	Arsenic	ug/L	1.4E+00	2.0E+00 (N)	2.8E+00 J	2.0E+00	ug/L	95% UCL - N	(d)
	Mercury	ug/L	5.8E-02	7.5E-02 (NP)	1.0E-01 J	7.5E-02	ug/L	95% UCL - NP	(f)

(1) Refer to Tables 3-2.7 for sample groupings; only COPCs selected on Table 3-2.7 and detected in each grouping 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.

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 3-3.9.RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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

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)
SC05									
	Antimony	mg/kg	7.3E+00	1.2E+01 (N)	1.3E+01	1.2E+01	mg/kg	95% UCL - N	(d)
	Arsenic	mg/kg	5.4E+02	9.5E+02 (N)	9.0E+02	9.0E+02	mg/kg	Max	(g)
	Cadmium	mg/kg	1.2E+01	2.3E+01 (N)	2.4E+01	2.3E+01	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	9.9E+02	1.7E+03 (N)	1.6E+03	1.6E+03	mg/kg	Max	(g)
	Lead	mg/kg	4.0E+02	6.0E+02 (N)	6.4E+02	6.0E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	3.6E+02	4.4E+02 (NP)	3.9E+02	3.9E+02	mg/kg	Max	(g)
	Mercury	mg/kg	1.1E+01	2.3E+01 (N)	2.6E+01 J	2.3E+01	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	4.5E+01	5.8E+01 (N)	6.1E+01	5.8E+01	mg/kg	95% UCL - N	(d)
SC06									
	Arsenic	mg/kg	8.6E+02	1.8E+03 (N)	1.7E+03	1.7E+03	mg/kg	Max	(g)
	Cadmium	mg/kg	1.9E+01	4.3E+01 (N)	4.8E+01	4.3E+01	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	5.0E+02	1.0E+03 (N)	9.5E+02	9.5E+02	mg/kg	Max	(g)
	Lead	mg/kg	3.4E+02	7.0E+02 (N)	6.2E+02	6.2E+02	mg/kg	Max	(g)
	Manganese	mg/kg	7.8E+02	1.7E+03 (N)	1.8E+03	1.7E+03	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	4.8E+00	9.4E+00 (N)	8.2E+00 J	8.2E+00	mg/kg	Max	(g)
	Vanadium	mg/kg	3.5E+01	6.7E+01 (N)	6.4E+01	6.4E+01	mg/kg	Max	(g)
	Zinc	mg/kg	2.0E+03	4.2E+03 (N)	4.6E+03	4.2E+03	mg/kg	95% UCL - N	(d)
SC07									
	Arsenic	mg/kg	2.1E+02	4.0E+02 (N)	4.4E+02	4.0E+02	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	1.1E+01	2.2E+01 (N)	2.5E+01	2.2E+01	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	4.0E+02	8.2E+02 (N)	9.1E+02	8.2E+02	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	2.4E+02	5.1E+02 (N)	5.7E+02	5.1E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	1.1E+03	2.3E+03 (N)	2.6E+03	2.3E+03	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	1.6E+00	3.4E+00 (N)	3.7E+00 J	3.4E+00	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	4.4E+01	6.6E+01 (N)	7.2E+01	6.6E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	2.1E+03	4.3E+03 (N)	4.8E+03	4.3E+03	mg/kg	95% UCL - N	(d)
SC08									
	Arsenic	mg/kg	3.5E+02	4.5E+03 (G)	1.3E+03	1.3E+03	mg/kg	Max	(g)
	Cadmium	mg/kg	6.9E+00	6.8E+01 (G)	2.2E+01	2.2E+01	mg/kg	Max	(g)
	Copper	mg/kg	3.9E+02	5.3E+03 (G)	1.4E+03	1.4E+03	mg/kg	Max	(g)
	Lead	mg/kg	1.9E+02	2.4E+03 (G)	6.8E+02	6.8E+02	mg/kg	Max	(g)
	Manganese	mg/kg	2.1E+02	5.2E+02 (N)	5.9E+02	5.2E+02	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	3.8E+00	5.2E+01 (G)	1.4E+01	1.4E+01	mg/kg	Max	(g)
	Vanadium	mg/kg	2.0E+01	2.2E+02 (G)	6.7E+01	6.7E+01	mg/kg	Max	(g)
	Zinc	mg/kg	8.6E+02	2.3E+03 (N)	2.7E+03	2.3E+03	mg/kg	95% UCL - N	(d)

TABLE 3-3.9.RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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

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)
SC09									
	Arsenic	mg/kg	4.8E+01	1.1E+02 (G)	8.9E+01	8.9E+01	mg/kg	Max	(g)
	Mercury	mg/kg	5.6E-01	1.7E+00 (G)	1.2E+00	1.2E+00	mg/kg	Max	(g)
SC10									
	Arsenic	mg/kg	2.7E+01	5.9E+01 (N)	6.7E+01	5.9E+01	mg/kg	95% UCL - N	(d)
SC11									
	Arsenic	mg/kg	1.0E+02	1.1E+02 (G)	1.1E+02	1.1E+02	mg/kg	Max	(g)
	Cadmium	mg/kg	5.9E+00	7.4E+00 (N)	7.2E+00	7.2E+00	mg/kg	Max	(g)
	Copper	mg/kg	2.6E+02	3.3E+02 (N)	3.4E+02	3.3E+02	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	5.8E+02	1.1E+03 (N)	1.2E+03	1.1E+03	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	5.2E+02	6.2E+02 (N)	6.3E+02	6.2E+02	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	1.9E+00	2.1E+00 (N)	2.2E+00	2.1E+00	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	5.8E+01	7.0E+01 (N)	7.1E+01	7.0E+01	mg/kg	95% UCL - N	(d)
SC12									
	Arsenic	mg/kg	1.1E+02	1.3E+02 (N)	1.3E+02	1.3E+02	mg/kg	Max	(g)
	Cadmium	mg/kg	1.0E+01	1.1E+01 (N)	1.1E+01	1.1E+01	mg/kg	Max	(g)
	Copper	mg/kg	4.0E+02	4.5E+02 (NP)	4.6E+02	4.5E+02	mg/kg	95% UCL - NP	(f)
	Lead	mg/kg	9.6E+02	1.4E+03 (N)	1.3E+03	1.3E+03	mg/kg	Max	(g)
	Manganese	mg/kg	6.4E+02	9.1E+02 (N)	9.6E+02	9.1E+02	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	2.6E+00	2.7E+00 (N)	2.7E+00	2.7E+00	mg/kg	Max	(g)
	Vanadium	mg/kg	7.1E+01	8.3E+01 (N)	8.6E+01	8.3E+01	mg/kg	95% UCL - N	(d)

TABLE 3-3.9.RME
EXPOSURE POINT CONCENTRATION SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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

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)
SC13									
	Arsenic	mg/kg	7.8E+01	1.2E+02 (N)	1.2E+02	1.2E+02	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	7.2E+00	1.2E+01 (N)	1.2E+01	1.2E+01	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	3.3E+02	4.8E+02 (N)	4.6E+02	4.6E+02	mg/kg	Max	(g)
	Lead	mg/kg	3.7E+02	7.3E+02 (N)	8.1E+02	7.3E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	2.5E+02	3.5E+02 (N)	3.7E+02	3.5E+02	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	1.5E+00	2.2E+00 (N)	2.1E+00 J	2.1E+00	mg/kg	Max	(g)
	Vanadium	mg/kg	4.8E+01	7.9E+01 (N)	8.7E+01	7.9E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	1.6E+03	2.6E+03 (N)	2.5E+03	2.5E+03	mg/kg	Max	(g)

(1) Refer to Table 3-2.8 station sample groupings; only COPCs selected on Table 3-2.8 and detected at each station 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.

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 3-3.9.CT
EXPOSURE POINT CONCENTRATION SUMMARY
CENTRAL TENDENCY EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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

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)
SC05									
	Antimony	mg/kg	7.3E+00	1.2E+01 (N)	1.3E+01	1.2E+01	mg/kg	95% UCL - N	(d)
	Arsenic	mg/kg	5.4E+02	9.5E+02 (N)	9.0E+02	5.4E+02	mg/kg	Mean	(b)
	Cadmium	mg/kg	1.2E+01	2.3E+01 (N)	2.4E+01	2.3E+01	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	9.9E+02	1.7E+03 (N)	1.6E+03	9.9E+02	mg/kg	Mean	(b)
	Lead	mg/kg	4.0E+02	6.0E+02 (N)	6.4E+02	6.0E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	3.6E+02	4.4E+02 (NP)	3.9E+02	3.6E+02	mg/kg	Mean	(b)
	Mercury	mg/kg	1.1E+01	2.3E+01 (N)	2.6E+01 J	2.3E+01	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	4.5E+01	5.8E+01 (N)	6.1E+01	5.8E+01	mg/kg	95% UCL - N	(d)
SC06									
	Arsenic	mg/kg	8.6E+02	1.8E+03 (N)	1.7E+03	8.6E+02	mg/kg	Mean	(b)
	Cadmium	mg/kg	1.9E+01	4.3E+01 (N)	4.8E+01	4.3E+01	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	5.0E+02	1.0E+03 (N)	9.5E+02	5.0E+02	mg/kg	Mean	(b)
	Lead	mg/kg	3.4E+02	7.0E+02 (N)	6.2E+02	3.4E+02	mg/kg	Mean	(b)
	Manganese	mg/kg	7.8E+02	1.7E+03 (N)	1.8E+03	1.7E+03	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	4.8E+00	9.4E+00 (N)	8.2E+00 J	4.8E+00	mg/kg	Mean	(b)
	Vanadium	mg/kg	3.5E+01	6.7E+01 (N)	6.4E+01	3.5E+01	mg/kg	Mean	(b)
	Zinc	mg/kg	2.0E+03	4.2E+03 (N)	4.6E+03	4.2E+03	mg/kg	95% UCL - N	(d)
SC07									
	Arsenic	mg/kg	2.1E+02	4.0E+02 (N)	4.4E+02	4.0E+02	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	1.1E+01	2.2E+01 (N)	2.5E+01	2.2E+01	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	4.0E+02	8.2E+02 (N)	9.1E+02	8.2E+02	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	2.4E+02	5.1E+02 (N)	5.7E+02	5.1E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	1.1E+03	2.3E+03 (N)	2.6E+03	2.3E+03	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	1.6E+00	3.4E+00 (N)	3.7E+00 J	3.4E+00	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	4.4E+01	6.6E+01 (N)	7.2E+01	6.6E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	2.1E+03	4.3E+03 (N)	4.8E+03	4.3E+03	mg/kg	95% UCL - N	(d)
SC08									
	Arsenic	mg/kg	3.5E+02	4.5E+03 (G)	1.3E+03	3.5E+02	mg/kg	Mean	(b)
	Cadmium	mg/kg	6.9E+00	6.8E+01 (G)	2.2E+01	6.9E+00	mg/kg	Mean	(b)
	Copper	mg/kg	3.9E+02	5.3E+03 (G)	1.4E+03	3.9E+02	mg/kg	Mean	(b)
	Lead	mg/kg	1.9E+02	2.4E+03 (G)	6.8E+02	1.9E+02	mg/kg	Mean	(b)
	Manganese	mg/kg	2.1E+02	5.2E+02 (N)	5.9E+02	5.2E+02	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	3.8E+00	5.2E+01 (G)	1.4E+01	3.8E+00	mg/kg	Mean	(b)
	Vanadium	mg/kg	2.0E+01	2.2E+02 (G)	6.7E+01	2.0E+01	mg/kg	Mean	(b)
	Zinc	mg/kg	8.6E+02	2.3E+03 (N)	2.7E+03	2.3E+03	mg/kg	95% UCL - N	(d)

TABLE 3-3.9.CT
EXPOSURE POINT CONCENTRATION SUMMARY
CENTRAL TENDENCY EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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

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)
SC09									
	Arsenic	mg/kg	4.8E+01	1.1E+02 (G)	8.9E+01	4.8E+01	mg/kg	Mean	(b)
	Mercury	mg/kg	5.6E-01	1.7E+00 (G)	1.2E+00	5.6E-01	mg/kg	Mean	(b)
SC10									
	Arsenic	mg/kg	2.7E+01	5.9E+01 (N)	6.7E+01	5.9E+01	mg/kg	95% UCL - N	(d)
SC11									
	Arsenic	mg/kg	1.0E+02	1.1E+02 (G)	1.1E+02	1.0E+02	mg/kg	Mean	(b)
	Cadmium	mg/kg	5.9E+00	7.4E+00 (N)	7.2E+00	5.9E+00	mg/kg	Mean	(b)
	Copper	mg/kg	2.6E+02	3.3E+02 (N)	3.4E+02	3.3E+02	mg/kg	95% UCL - N	(d)
	Lead	mg/kg	5.8E+02	1.1E+03 (N)	1.2E+03	1.1E+03	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	5.2E+02	6.2E+02 (N)	6.3E+02	6.2E+02	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	1.9E+00	2.1E+00 (N)	2.2E+00	2.1E+00	mg/kg	95% UCL - N	(d)
	Vanadium	mg/kg	5.8E+01	7.0E+01 (N)	7.1E+01	7.0E+01	mg/kg	95% UCL - N	(d)
SC12									
	Arsenic	mg/kg	1.1E+02	1.3E+02 (N)	1.3E+02	1.1E+02	mg/kg	Mean	(b)
	Cadmium	mg/kg	1.0E+01	1.1E+01 (N)	1.1E+01	1.0E+01	mg/kg	Mean	(b)
	Copper	mg/kg	4.0E+02	4.5E+02 (NP)	4.6E+02	4.5E+02	mg/kg	95% UCL - NP	(f)
	Lead	mg/kg	9.6E+02	1.4E+03 (N)	1.3E+03	9.6E+02	mg/kg	Mean	(b)
	Manganese	mg/kg	6.4E+02	9.1E+02 (N)	9.6E+02	9.1E+02	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	2.6E+00	2.7E+00 (N)	2.7E+00	2.6E+00	mg/kg	Mean	(b)
	Vanadium	mg/kg	7.1E+01	8.3E+01 (N)	8.6E+01	8.3E+01	mg/kg	95% UCL - N	(d)

TABLE 3-3.9.CT
EXPOSURE POINT CONCENTRATION SUMMARY
CENTRAL TENDENCY EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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

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)
SC13									
	Arsenic	mg/kg	7.8E+01	1.2E+02 (N)	1.2E+02	1.2E+02	mg/kg	95% UCL - N	(d)
	Cadmium	mg/kg	7.2E+00	1.2E+01 (N)	1.2E+01	1.2E+01	mg/kg	95% UCL - N	(d)
	Copper	mg/kg	3.3E+02	4.8E+02 (N)	4.6E+02	3.3E+02	mg/kg	Mean	(b)
	Lead	mg/kg	3.7E+02	7.3E+02 (N)	8.1E+02	7.3E+02	mg/kg	95% UCL - N	(d)
	Manganese	mg/kg	2.5E+02	3.5E+02 (N)	3.7E+02	3.5E+02	mg/kg	95% UCL - N	(d)
	Mercury	mg/kg	1.5E+00	2.2E+00 (N)	2.1E+00 J	1.5E+00	mg/kg	Mean	(b)
	Vanadium	mg/kg	4.8E+01	7.9E+01 (N)	8.7E+01	7.9E+01	mg/kg	95% UCL - N	(d)
	Zinc	mg/kg	1.6E+03	2.6E+03 (N)	2.5E+03	1.6E+03	mg/kg	Mean	(b)

(1) Refer to Table 3-2.8 station sample groupings; only COPCs selected on Table 3-2.8 and detected at each station 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.

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 3-4.1.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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	Adult	Stations 14, CB-07, TT-30, and AM	CW	Chemical Concentration in Water	see Table 3-3.1.RME	µg/L	see Table 3-3.1.RME	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm^2-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	5700	cm^2	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	$\frac{DA \times SA \times EV \times EF \times ED}{BW \times AT}$
				ET	Event Time	1	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	events/day	Prof. Judgement	
				EF	Exposure Frequency	26	days/year	assumption	Inorganics:
				ED	Exposure Duration	24	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	70	kg	USEPA, 1994b	
				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)	8760	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	L/cm^3	- -	
				CF2	Conversion Factor 2	0.001	mg/µg	- -	
			Stations 22/TT-22, NR, WG, WH, and AS	CW	Chemical Concentration in Water	see Table 3-3.1.RME	µg/L	see Table 3-3.1.RME	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm^2-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	5700	cm^2	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	$\frac{DA \times SA \times EV \times EF \times ED}{BW \times AT}$
				ET	Event Time	1	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	events/day	Prof. Judgement	
				EF	Exposure Frequency	26	days/year	assumption	Inorganics:
				ED	Exposure Duration	24	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	70	kg	USEPA, 1994b	
				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)	8760	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	L/cm^3	- -	
				CF2	Conversion Factor 2	0.001	mg/µg	- -	

TABLE 3-4.1.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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 (cont.)	Recreational User (cont.)	Adult (cont.)	Stations WS/WSS, CB-01, CB-02, CB-03, CB-04, and CB-06	CW	Chemical Concentration in Water	see Table 3-3.1.RME	µg/L	see Table 3-3.1.RME	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm^2-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	5700	cm^2	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	$\frac{DA \times SA \times EV \times EF \times ED}{BW \times AT}$
				ET	Event Time	1	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	events/day	Prof. Judgement	
				EF	Exposure Frequency	104	days/year	assumption	Inorganics:
				ED	Exposure Duration	24	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	70	kg	USEPA, 1994b	
				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)	8760	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	L/cm^3	- -	
				CF2	Conversion Factor 2	0.001	mg/µg	- -	
			Stations LP, KF, DA, 16/TT-33, 09, 08, 07/DP, 06, 05, AJRW, 04, 03, and 02	CW	Chemical Concentration in Water	see Table 3-3.1.RME	µg/L	see Table 3-3.1.RME	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm^2-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	5700	cm^2	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	$\frac{DA \times SA \times EV \times EF \times ED}{BW \times AT}$
				ET	Event Time	1	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	events/day	Prof. Judgement	
				EF	Exposure Frequency	78	days/year	assumption	Inorganics:
				ED	Exposure Duration	24	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	70	kg	USEPA, 1994b	
				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)	8760	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	L/cm^3	- -	
				CF2	Conversion Factor 2	0.001	mg/µg	- -	

TABLE 3-4.1.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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 (cont.)	Recreational User (cont.)	Adult (cont.)	Station 01 (Swimming)	CW	Chemical Concentration in Water	see Table 3-3.1.RME	µg/L	see Table 3-3.1.RME	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm²-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	18000	cm²	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	DA x SA x EV x EF x ED / BW x AT
				ET	Event Time	1	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	event/day	Prof. Judgement	
				EF	Exposure Frequency	39	days/year	assumption	Inorganics:
				ED	Exposure Duration	24	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	70	kg	USEPA, 1994b	
				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)	8760	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	L/cm³	- -	
				CF2	Conversion Factor 2	0.001	mg/µg	- -	
		Young Child	Stations 14, CB-07, TT 30, and AM	CW	Chemical Concentration in Water	see Table 3-3.1.RME	µg/L	see Table 3-3.1.RME	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm²-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	2800	cm²	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	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	26	days/year	assumption	Inorganics:
				ED	Exposure Duration	6	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	15	kg	USEPA, 1994b	
				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)	2190	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	L/cm³	- -	
				CF2	Conversion Factor 2	0.001	mg/µg	- -	

TABLE 3-4.1.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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 (cont.)	Recreational User (cont.)	Young Child (cont.)	Stations 22/TT-22, NR, WG, WH, and AS	CW	Chemical Concentration in Water	see Table 3-3.1.RME	µg/L	see Table 3-3.1.RME	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm^2-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	2800	cm^2	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	$\frac{DA \times SA \times EV \times EF \times ED}{BW \times AT}$
				ET	Event Time	1	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	events/day	Prof. Judgement	
				EF	Exposure Frequency	26	days/year	assumption	Inorganics:
				ED	Exposure Duration	6	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	15	kg	USEPA, 1994b	
				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)	2190	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	L/cm^3	- -	
				CF2	Conversion Factor 2	0.001	mg/µg	- -	
			Stations WS/WSS, CB-01, CB-02, CB-03, CB-04, and CB-06	CW	Chemical Concentration in Water	see Table 3-3.1.RME	µg/L	see Table 3-3.1.RME	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm^2-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	2800	cm^2	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	$\frac{DA \times SA \times EV \times EF \times ED}{BW \times AT}$
				ET	Event Time	1	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	events/day	Prof. Judgement	
				EF	Exposure Frequency	104	days/year	assumption	Inorganics:
				ED	Exposure Duration	6	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	15	kg	USEPA, 1994b	
				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)	2190	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	L/cm^3	- -	
				CF2	Conversion Factor 2	0.001	mg/µg	- -	

TABLE 3-4.1.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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 (cont.)	Recreational User (cont.)	Young Child (cont.)	Stations LP, KF, DA, 16/TT-33, 09, 08, 07/DP, 06, 05, AJRW, 04, 03, and 02	CW	Chemical Concentration in Water	see Table 3-3.1.RME	µg/L	see Table 3-3.1.RME	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm^2-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	2800	cm^2	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	$\frac{DA \times SA \times EV \times EF \times ED}{BW \times AT}$
				ET	Event Time	1	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	events/day	Prof. Judgement	
				EF	Exposure Frequency	78	days/year	assumption	Inorganics:
				ED	Exposure Duration	6	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	15	kg	USEPA, 1994b	
				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)	2190	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	L/cm^3	- -	
				CF2	Conversion Factor 2	0.001	mg/µg	- -	
			Station 01	CW	Chemical Concentration in Water	see Table 3-3.1.RME	µg/L	see Table 3-3.1.RME	Organics:
			(Swimming)	DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm^2-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	6600	cm^2	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	$\frac{DA \times SA \times EV \times EF \times ED}{BW \times AT}$
				ET	Event Time	1	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	event/day	Prof. Judgement	
				EF	Exposure Frequency	39	days/year	assumption	Inorganics:
				ED	Exposure Duration	6	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	15	kg	USEPA, 1994b	
				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)	2190	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	L/cm^3	- -	
				CF2	Conversion Factor 2	0.001	mg/µg	- -	

TABLE 3-4.1.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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
Ingestion	Recreational User	Adult	Station 01 (Swimming)	CW	Chemical Concentration in Water	see Table 3-3.1.RME	µg/L	see Table 3-3.1.RME	Chronic Daily Intake (CDI) (mg/kg-day) = $\frac{CW \times IR \times ET \times EF \times ED \times CF1 \times CF2}{BW \times AT}$
				IR	Ingestion Rate of Water	50	mL/hr	USEPA, 1989	
				ET	Exposure Time	1	hrs/day	Prof. Judgement	
				EF	Exposure Frequency	39	days/year	assumption	
				ED	Exposure Duration	24	years	USEPA, 1994b	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	8,760	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	mg/µg	- -	
				CF2	Conversion Factor 2	0.001	L/mL	- -	
		Young Child	Station 01 (Swimming)	CW	Chemical Concentration in Water	see Table 3-3.1.RME	µg/L	see Table 3-3.1.RME	Chronic Daily Intake (CDI) (mg/kg-day) = $\frac{CW \times IR \times ET \times EF \times ED \times CF1 \times CF2}{BW \times AT}$
				IR	Ingestion Rate of Water	50	mL/hr	USEPA, 1989	
				ET	Exposure Time	1	hrs/day	Prof. Judgement	
				EF	Exposure Frequency	39	days/year	assumption	
				ED	Exposure Duration	6	years	USEPA, 1994b	
				BW	Body Weight	15	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,190	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	mg/µg	- -	
				CF2	Conversion Factor 2	0.001	L/mL	- -	

Adult SA term assumes exposure to face, forearms, hands, and lower legs.

Young child SA term assumes exposure to face, forearms, hands, lower legs, and feet.

TABLE 3-4.1.CT
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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	Adult	Stations 14, CB-07, TT 30, and AM	CW	Chemical Concentration in Water	see Table 3-3.1.CT	µg/L	see Table 3-3.1.CT	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm²-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	5700	cm²	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	$\frac{DA \times SA \times EV \times EF \times ED}{BW \times AT}$
				ET	Event Time	0.5	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	events/day	Prof. Judgement	
				EF	Exposure Frequency	26	days/year	assumption	Inorganics:
				ED	Exposure Duration	7	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	70	kg	USEPA, 1994b	
				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)	2555	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	L/cm³	- -	
				CF2	Conversion Factor 2	0.001	mg/µg	- -	
			Stations 22/TT-22, NR, WG, WH, and AS	CW	Chemical Concentration in Water	see Table 3-3.1.CT	µg/L	see Table 3-3.1.CT	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm²-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	5,700	cm²	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	$\frac{DA \times SA \times EV \times EF \times ED}{BW \times AT}$
				ET	Event Time	0.5	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	events/day	Prof. Judgement	
				EF	Exposure Frequency	26	days/year	assumption	Inorganics:
				ED	Exposure Duration	7	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	70	kg	USEPA, 1994b	
				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)	2555	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	L/cm³	- -	
				CF2	Conversion Factor 2	0.001	mg/µg	- -	

TABLE 3-4.1.CT
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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 (cont.)	Recreational User (cont.)	Adult (cont.)	Stations WS/WSS, CB-01, CB-02, CB-03, CB-04, and CB-06	CW	Chemical Concentration in Water	see Table 3-3.1.CT	µg/L	see Table 3-3.1.CT	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm^2-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	5,700	cm^2	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	$\frac{DA \times SA \times EV \times EF \times ED}{BW \times AT}$
				ET	Event Time	0.5	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	events/day	Prof. Judgement	
				EF	Exposure Frequency	78	days/year	assumption	Inorganics:
				ED	Exposure Duration	7	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	70	kg	USEPA, 1994b	
				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)	2555	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	L/cm^3	- -	
				CF2	Conversion Factor 2	0.001	mg/µg	- -	
			Stations LP, KF, DA, 16/TT-33, 09, 08, 07/DP, 06, 05, AJRW, 04, 03, and 02	CW	Chemical Concentration in Water	see Table 3-3.1.CT	µg/L	see Table 3-3.1.CT	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm^2-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	5,700	cm^2	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	$\frac{DA \times SA \times EV \times EF \times ED}{BW \times AT}$
				ET	Event Time	0.5	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	events/day	Prof. Judgement	
				EF	Exposure Frequency	26	days/year	assumption	Inorganics:
				ED	Exposure Duration	7	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	70	kg	USEPA, 1994b	
				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)	2555	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	L/cm^3	- -	
				CF2	Conversion Factor 2	0.001	mg/µg	- -	

TABLE 3-4.1.CT
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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 (cont.)	Recreational User (cont.)	Adult (cont.)	Station 01 (Swimming)	CW	Chemical Concentration in Water	see Table 3-3.1.CT	µg/L	see Table 3-3.1.CT	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm²-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	18,000	cm²	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	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	event/day	Prof. Judgement	
				EF	Exposure Frequency	5	days/year	assumption	Inorganics:
				ED	Exposure Duration	7	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	70	kg	USEPA, 1994b	
				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)	2555	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	L/cm³	- -	
				CF2	Conversion Factor 2	0.001	mg/µg	- -	
		Young Child	Stations 14, CB-07, TT-30, and AM	CW	Chemical Concentration in Water	see Table 3-3.1.CT	µg/L	see Table 3-3.1.CT	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm²-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	2,800	cm²	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	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	26	days/year	assumption	Inorganics:
				ED	Exposure Duration	2	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	15	kg	USEPA, 1994b	
				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)	730	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	L/cm³	- -	
				CF2	Conversion Factor 2	0.001	mg/µg	- -	

TABLE 3-4.1.CT
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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 (cont.)	Recreational User (cont.)	Young Child (cont.)	Stations 22/TT-22, NR, WG, WH, and AS	CW	Chemical Concentration in Water	see Table 3-3.1.CT	µg/L	see Table 3-3.1.CT	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm^2-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	2,800	cm^2	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	$\frac{DA \times SA \times EV \times EF \times ED}{BW \times AT}$
				ET	Event Time	0.5	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	events/day	Prof. Judgement	
				EF	Exposure Frequency	26	days/year	assumption	Inorganics:
				ED	Exposure Duration	2	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	15	kg	USEPA, 1994b	
				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/µg	- -	
			Stations WS/WSS, CB-01, CB-02, CB-03, CB-04, and CB-06	CW	Chemical Concentration in Water	see Table 3-3.1.CT	µg/L	see Table 3-3.1.CT	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm^2-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	2,800	cm^2	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	$\frac{DA \times SA \times EV \times EF \times ED}{BW \times AT}$
				ET	Event Time	0.5	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	events/day	Prof. Judgement	
				EF	Exposure Frequency	78	days/year	assumption	Inorganics:
				ED	Exposure Duration	2	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	15	kg	USEPA, 1994b	
				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/µg	- -	

TABLE 3-4.1.CT
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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 (cont.)	Recreational User (cont.)	Young Child (cont.)	Stations LP, KF, DA, 16/TT-33, 09, 08, 07/DP, 06, 05, AJRW, 04, 03, and 02	CW	Chemical Concentration in Water	see Table 3-3.1.CT	µg/L	see Table 3-3.1.CT	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm^2-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	2,800	cm^2	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	$\frac{DA \times SA \times EV \times EF \times ED}{BW \times AT}$
				ET	Event Time	0.5	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	events/day	Prof. Judgement	
				EF	Exposure Frequency	26	days/year	assumption	Inorganics:
				ED	Exposure Duration	2	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	15	kg	USEPA, 1994b	
				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/µg	- -	
			Station 01 (Swimming)	CW	Chemical Concentration in Water	see Table 3-3.1.CT	µg/L	see Table 3-3.1.CT	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm^2-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	6,600	cm^2	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	$\frac{DA \times SA \times EV \times EF \times ED}{BW \times AT}$
				ET	Event Time	0.5	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	event/day	Prof. Judgement	
				EF	Exposure Frequency	5	days/year	assumption	Inorganics:
				ED	Exposure Duration	2	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	15	kg	USEPA, 1994b	
				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/µg	- -	

TABLE 3-4.1.CT
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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
Ingestion	Recreational User	Adult	Station 01 (Swimming)	CW	Chemical Concentration in Water	see Table 3-3.1.CT	µg/L	see Table 3-3.1.CT	Chronic Daily Intake (CDI) (mg/kg-day) = $\frac{CW \times IR \times ET \times EF \times ED \times CF1 \times CF2}{BW \times AT}$
				IR	Ingestion Rate of Water	50	mL/hr	USEPA, 1989	
				ET	Exposure Time	0.5	hrs/day	Prof. Judgement	
				EF	Exposure Frequency	5	days/year	assumption	
				ED	Exposure Duration	7	years	USEPA, 1994b	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,555	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	mg/µg	- -	
				CF2	Conversion Factor 2	0.001	L/mL	- -	
		Young Child	Station 01 (Swimming)	CW	Chemical Concentration in Water	see Table 3-3.1.CT	µg/L	see Table 3-3.1.CT	Chronic Daily Intake (CDI) (mg/kg-day) = $\frac{CW \times IR \times ET \times EF \times ED \times CF1 \times CF2}{BW \times AT}$
				IR	Ingestion Rate of Water	50	mL/hr	USEPA, 1989	
				ET	Exposure Time	0.5	hrs/day	Prof. Judgement	
				EF	Exposure Frequency	5	days/year	assumption	
				ED	Exposure Duration	2	years	USEPA, 1994b	
				BW	Body Weight	15	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	730	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	mg/µg	- -	
				CF2	Conversion Factor 2	0.001	L/mL	- -	

Adult SA term assumes exposure to face, forearms, hands, and lower legs.

Young child SA term assumes exposure to face, forearms, hands, lower legs, and feet.

TABLE 3-4.2.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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	Adult	Stations CB-07, TT-30, and AM	CW	Chemical Concentration in Water	see Table 3-3.1.RME	µg/L	see Table 3-3.1.RME	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm^2-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	5700	cm^2	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	$\frac{DA \times SA \times EV \times EF \times ED}{BW \times AT}$
				ET	Event Time	1	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	events/day	Prof. Judgement	
				EF	Exposure Frequency	26	days/year	assumption	Inorganics:
				ED	Exposure Duration	24	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	70	kg	USEPA, 1994b	
				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)	8760	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	L/cm^3	- -	
				CF2	Conversion Factor 2	0.001	mg/µg	- -	
			Stations NR and 14	CW	Chemical Concentration in Water	see Table 3-3.1.RME	µg/L	see Table 3-3.1.RME	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm^2-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	5700	cm^2	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	$\frac{DA \times SA \times EV \times EF \times ED}{BW \times AT}$
				ET	Event Time	1	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	events/day	Prof. Judgement	
				EF	Exposure Frequency	52	days/year	assumption	Inorganics:
				ED	Exposure Duration	24	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	70	kg	USEPA, 1994b	
				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)	8760	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	L/cm^3	- -	
				CF2	Conversion Factor 2	0.001	mg/µg	- -	

TABLE 3-4.2.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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 (cont.)	Recreational User (cont.)	Adult (cont.)	Stations 22/TT-22, WG, WH, AS, NT-1, NT-2, NT-3, JY, 13/TT-27, WW, and TT-31	CW	Chemical Concentration in Water	see Table 3-3.1.RME	µg/L	see Table 3-3.1.RME	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm^2-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	5700	cm^2	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	$\frac{DA \times SA \times EV \times EF \times ED}{BW \times AT}$
				ET	Event Time	1	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	events/day	Prof. Judgement	
				EF	Exposure Frequency	78	days/year	assumption	Inorganics:
				ED	Exposure Duration	24	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	70	kg	USEPA, 1994b	
				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)	8760	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	L/cm^3	- -	
				CF2	Conversion Factor 2	0.001	mg/µg	- -	
			Stations WS/WSS, CB-01, CB-02, CB-03, CB-04, and CB-06	CW	Chemical Concentration in Water	see Table 3-3.1.RME	µg/L	see Table 3-3.1.RME	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm^2-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	5700	cm^2	USEPA, 2004d	
				PC	Permeabillity Constant	chemical specific	cm/hr	USEPA, 2004d	$\frac{DA \times SA \times EV \times EF \times ED}{BW \times AT}$
				ET	Event Time	1	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	events/day	Prof. Judgement	
				EF	Exposure Frequency	104	days/year	assumption	Inorganics:
				ED	Exposure Duration	24	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	70	kg	USEPA, 1994b	
				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)	8760	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	L/cm^3	- -	
				CF2	Conversion Factor 2	0.001	mg/µg	- -	

TABLE 3-4.2.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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 (cont.)	Recreational User (cont.)	Adult (cont.)	Stations LP, KF, DA, 16/TT-33, 09, 08, 07/DP, 06, 05, AJRW, 04, 03, and 02	CW	Chemical Concentration in Water	see Table 3-3.1.RME	µg/L	see Table 3-3.1.RME	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm^2-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	5700	cm^2	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	$\frac{DA \times SA \times EV \times EF \times ED}{BW \times AT}$
				ET	Event Time	1	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	events/day	Prof. Judgement	
				EF	Exposure Frequency	78	days/year	assumption	Inorganics:
				ED	Exposure Duration	24	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	70	kg	USEPA, 1994b	
				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)	8760	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	L/cm^3	- -	
				CF2	Conversion Factor 2	0.001	mg/µg	- -	
			Station 01 (Swimming)	CW	Chemical Concentration in Water	see Table 3-3.1.RME	µg/L	see Table 3-3.1.RME	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm^2-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	18000	cm^2	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	$\frac{DA \times SA \times EV \times EF \times ED}{BW \times AT}$
				ET	Event Time	1	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	event/day	Prof. Judgement	
				EF	Exposure Frequency	39	days/year	assumption	Inorganics:
				ED	Exposure Duration	24	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	70	kg	USEPA, 1994b	
				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)	8760	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	L/cm^3	- -	
				CF2	Conversion Factor 2	0.001	mg/µg	- -	

TABLE 3-4.2.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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 (cont.)	Recreational User (cont.)	Young Child	Stations CB-07, TT-30, and AM	CW	Chemical Concentration in Water	see Table 3-3.1.RME	µg/L	see Table 3-3.1.RME	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm²-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	2800	cm²	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	$\frac{DA \times SA \times EV \times EF \times ED}{BW \times AT}$
				ET	Event Time	1	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	events/day	Prof. Judgement	
				EF	Exposure Frequency	26	days/year	assumption	Inorganics:
				ED	Exposure Duration	6	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	15	kg	USEPA, 1994b	
				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)	2190	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	L/cm³	- -	
				CF2	Conversion Factor 2	0.001	mg/µg	- -	
			Stations NR and 14	CW	Chemical Concentration in Water	see Table 3-3.1.RME	µg/L	see Table 3-3.1.RME	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm²-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	2,800	cm²	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	$\frac{DA \times SA \times EV \times EF \times ED}{BW \times AT}$
				ET	Event Time	1	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	events/day	Prof. Judgement	
				EF	Exposure Frequency	52	days/year	assumption	Inorganics:
				ED	Exposure Duration	6	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	15	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	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)	2,190	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	L/cm³	- -	
				CF2	Conversion Factor 2	0.001	mg/µg	- -	

TABLE 3-4.2.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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 (cont.)	Recreational User (cont.)	Young Child (cont.)	Stations 22/TT-22, WG, WH, AS, NT-1, NT-2, NT-3, JY, 13/TT-27, WW, and TT-31	CW	Chemical Concentration in Water	see Table 3-3.1.RME	µg/L	see Table 3-3.1.RME	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm^2-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	2,800	cm^2	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	$\frac{DA \times SA \times EV \times EF \times ED}{BW \times AT}$
				ET	Event Time	1	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	events/day	Prof. Judgement	
				EF	Exposure Frequency	78	days/year	assumption	Inorganics:
				ED	Exposure Duration	6	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	15	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	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)	2,190	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	L/cm^3	- -	
				CF2	Conversion Factor 2	0.001	mg/µg	- -	
			Stations WS/WSS, CB-01, CB-02, CB-03, CB-04, and CB-06	CW	Chemical Concentration in Water	see Table 3-3.1.RME	µg/L	see Table 3-3.1.RME	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm^2-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	2800	cm^2	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	$\frac{DA \times SA \times EV \times EF \times ED}{BW \times AT}$
				ET	Event Time	1	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	events/day	Prof. Judgement	
				EF	Exposure Frequency	104	days/year	assumption	Inorganics:
				ED	Exposure Duration	6	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	15	kg	USEPA, 1994b	
				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)	2190	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	L/cm^3	- -	
				CF2	Conversion Factor 2	0.001	mg/µg	- -	

TABLE 3-4.2.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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 (cont.)	Recreational User (cont.)	Young Child (cont.)	Stations LP, KF, DA, 16/TT-33, 09, 08, 07/DP, 06, 05, AJRW, 04, 03, and 02	CW	Chemical Concentration in Water	see Table 3-3.1.RME	µg/L	see Table 3-3.1.RME	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm^2-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	2800	cm^2	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	$\frac{DA \times SA \times EV \times EF \times ED}{BW \times AT}$
				ET	Event Time	1	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	events/day	Prof. Judgement	
				EF	Exposure Frequency	78	days/year	assumption	Inorganics:
				ED	Exposure Duration	6	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	15	kg	USEPA, 1994b	
				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)	2190	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	L/cm^3	- -	
				CF2	Conversion Factor 2	0.001	mg/µg	- -	
			Station 01 (Swimming)	CW	Chemical Concentration in Water	see Table 3-3.1.RME	µg/L	see Table 3-3.1.RME	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm^2-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	6600	cm^2	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	$\frac{DA \times SA \times EV \times EF \times ED}{BW \times AT}$
				ET	Event Time	1	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	event/day	Prof. Judgement	
				EF	Exposure Frequency	39	days/year	assumption	Inorganics:
				ED	Exposure Duration	6	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	15	kg	USEPA, 1994b	
				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)	2190	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	L/cm^3	- -	
				CF2	Conversion Factor 2	0.001	mg/µg	- -	

TABLE 3-4.2.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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
Ingestion	Recreational User	Adult	Station 01 (Swimming)	CW	Chemical Concentration in Water	see Table 3-3.1.RME	µg/L	see Table 3-3.1.RME	Chronic Daily Intake (CDI) (mg/kg-day) = $\frac{CW \times IR \times ET \times EF \times ED \times CF1 \times CF2}{BW \times AT}$
				IR	Ingestion Rate of Water	50	mL/hr	USEPA, 1989	
				ET	Exposure Time	1	hrs/day	Prof. Judgement	
				EF	Exposure Frequency	39	days/year	assumption	
				ED	Exposure Duration	24	years	USEPA, 1994b	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	8,760	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	mg/µg	- -	
				CF2	Conversion Factor 2	0.001	L/mL	- -	
		Young Child	Station 01 (Swimming)	CW	Chemical Concentration in Water	see Table 3-3.1.RME	µg/L	see Table 3-3.1.RME	Chronic Daily Intake (CDI) (mg/kg-day) = $\frac{CW \times IR \times ET \times EF \times ED \times CF1 \times CF2}{BW \times AT}$
				IR	Ingestion Rate of Water	50	mL/hr	USEPA, 1989	
				ET	Exposure Time	1	hrs/day	Prof. Judgement	
				EF	Exposure Frequency	39	days/year	assumption	
				ED	Exposure Duration	6	years	USEPA, 1994b	
				BW	Body Weight	15	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,190	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	mg/µg	- -	
				CF2	Conversion Factor 2	0.001	L/mL	- -	

Adult SA term assumes exposure to face, forearms, hands, and lower legs.

Young child SA term assumes exposure to face, forearms, hands, lower legs, and feet.

TABLE 3-4.2.CT
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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	Adult	Stations CB-07, TT-30, and AM	CW	Chemical Concentration in Water	see Table 3-3.1.CT	µg/L	see Table 3-3.1.CT	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm²-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	5700	cm²	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	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	26	days/year	assumption	Inorganics:
				ED	Exposure Duration	7	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	70	kg	USEPA, 1994b	
				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)	2555	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	L/cm³	- -	
				CF2	Conversion Factor 2	0.001	mg/µg	- -	
			Stations NR and 14	CW	Chemical Concentration in Water	see Table 3-3.1.CT	µg/L	see Table 3-3.1.CT	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm²-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	5,700	cm²	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	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	26	days/year	assumption	Inorganics:
				ED	Exposure Duration	7	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	70	kg	USEPA, 1994b	
				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)	2555	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	L/cm³	- -	
				CF2	Conversion Factor 2	0.001	mg/µg	- -	

TABLE 3-4.2.CT
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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 (cont.)	Recreational User (cont.)	Adult (cont.)	Stations 22/TT-22, WG, WH, AS, NT-1, NT-2, NT-3, JY, 13/TT-27, WW, and TT-31	CW	Chemical Concentration in Water	see Table 3-3.1.CT	µg/L	see Table 3-3.1.CT	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm^2-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	5,700	cm^2	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	$\frac{DA \times SA \times EV \times EF \times ED}{BW \times AT}$
				ET	Event Time	0.5	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	events/day	Prof. Judgement	
				EF	Exposure Frequency	26	days/year	assumption	Inorganics:
				ED	Exposure Duration	7	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	70	kg	USEPA, 1994b	
				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)	2555	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	L/cm^3	- -	
				CF2	Conversion Factor 2	0.001	mg/µg	- -	
			Stations WS/WSS, CB-01, CB-02, CB-03, CB-04, and CB-06	CW	Chemical Concentration in Water	see Table 3-3.1.CT	µg/L	see Table 3-3.1.CT	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm^2-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	5,700	cm^2	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	$\frac{DA \times SA \times EV \times EF \times ED}{BW \times AT}$
				ET	Event Time	0.5	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	events/day	Prof. Judgement	
				EF	Exposure Frequency	78	days/year	assumption	Inorganics:
				ED	Exposure Duration	7	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	70	kg	USEPA, 1994b	
				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)	2555	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	L/cm^3	- -	
				CF2	Conversion Factor 2	0.001	mg/µg	- -	

TABLE 3-4.2.CT
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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 (cont.)	Recreational User (cont.)	Adult (cont.)	Stations LP, KF, DA, 16/TT-33, 09, 08, 07/DP, 06, 05, AJRW, 04, 03, and 02	CW	Chemical Concentration in Water	see Table 3-3.1.CT	µg/L	see Table 3-3.1.CT	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm²-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	5,700	cm²	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	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	26	days/year	assumption	Inorganics:
				ED	Exposure Duration	7	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	70	kg	USEPA, 1994b	
				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)	2555	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	L/cm³	- -	
				CF2	Conversion Factor 2	0.001	mg/µg	- -	
			Station 01 (Swimming)	CW	Chemical Concentration in Water	see Table 3-3.1.CT	µg/L	see Table 3-3.1.CT	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm²-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	18,000	cm²	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	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	event/day	Prof. Judgement	
				EF	Exposure Frequency	5	days/year	assumption	Inorganics:
				ED	Exposure Duration	7	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	70	kg	USEPA, 1994b	
				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)	2555	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	L/cm³	- -	
				CF2	Conversion Factor 2	0.001	mg/µg	- -	

TABLE 3-4.2.CT
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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 (cont.)	Recreational User (cont.)	Young Child	Stations CB-07, TT-30, and AM	CW	Chemical Concentration in Water	see Table 3-3.1.CT	µg/L	see Table 3-3.1.CT	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm^2-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	2,800	cm^2	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	$\frac{DA \times SA \times EV \times EF \times ED}{BW \times AT}$
				ET	Event Time	0.5	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	events/day	Prof. Judgement	
				EF	Exposure Frequency	26	days/year	assumption	Inorganics:
				ED	Exposure Duration	2	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	15	kg	USEPA, 1994b	
				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/µg	- -	
			Stations NR and 14	CW	Chemical Concentration in Water	see Table 3-3.1.CT	µg/L	see Table 3-3.1.CT	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm^2-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	2,800	cm^2	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	$\frac{DA \times SA \times EV \times EF \times ED}{BW \times AT}$
				ET	Event Time	0.5	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	events/day	Prof. Judgement	
				EF	Exposure Frequency	26	days/year	assumption	Inorganics:
				ED	Exposure Duration	2	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	15	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	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/µg	- -	

TABLE 3-4.2.CT
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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 (cont.)	Recreational User (cont.)	Young Child (cont.)	Stations 22/TT-22, WG, WH, AS, NT-1, NT-2, NT-3, JY, 13/TT-27, WW, and TT-31	CW	Chemical Concentration in Water	see Table 3-3.1.CT	$\mu g/L$	see Table 3-3.1.CT	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm^2-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	2,800	cm^2	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	$\frac{DA \times SA \times EV \times EF \times ED}{BW \times AT}$
				ET	Event Time	0.5	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	events/day	Prof. Judgement	
				EF	Exposure Frequency	26	days/year	assumption	Inorganics:
				ED	Exposure Duration	2	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	15	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	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	$mg/\mu g$	- -	
			Stations WS/WSS, CB-01, CB-02, CB-03, CB-04, and CB-06	CW	Chemical Concentration in Water	see Table 3-3.1.CT	$\mu g/L$	see Table 3-3.1.CT	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm^2-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	2,800	cm^2	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	$\frac{DA \times SA \times EV \times EF \times ED}{BW \times AT}$
				ET	Event Time	0.5	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	events/day	Prof. Judgement	
				EF	Exposure Frequency	78	days/year	assumption	Inorganics:
				ED	Exposure Duration	2	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	15	kg	USEPA, 1994b	
				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	$mg/\mu g$	- -	

TABLE 3-4.2.CT
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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 (cont.)	Recreational User (cont.)	Young Child (cont.)	Stations LP, KF, DA, 16/TT-33, 09, 08, 07/DP, 06, 05, AJRW, 04, 03, and 02	CW	Chemical Concentration in Water	see Table 3-3.1.CT	µg/L	see Table 3-3.1.CT	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm^2-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	2,800	cm^2	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	$\frac{DA \times SA \times EV \times EF \times ED}{BW \times AT}$
				ET	Event Time	0.5	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	events/day	Prof. Judgement	
				EF	Exposure Frequency	26	days/year	assumption	Inorganics:
				ED	Exposure Duration	2	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	15	kg	USEPA, 1994b	
				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/µg	- -	
			Station 01 (Swimming)	CW	Chemical Concentration in Water	see Table 3-3.1.CT	µg/L	see Table 3-3.1.CT	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm^2-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	6,600	cm^2	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	$\frac{DA \times SA \times EV \times EF \times ED}{BW \times AT}$
				ET	Event Time	0.5	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	event/day	Prof. Judgement	
				EF	Exposure Frequency	5	days/year	assumption	Inorganics:
				ED	Exposure Duration	2	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	15	kg	USEPA, 1994b	
				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/µg	- -	

TABLE 3-4.2.CT
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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
Ingestion	Recreational User	Adult	Station 01 (Swimming)	CW	Chemical Concentration in Water	see Table 3-3.1.CT	µg/L	see Table 3-3.1.CT	Chronic Daily Intake (CDI) (mg/kg-day) = $\frac{CW \times IR \times ET \times EF \times ED \times CF1 \times CF2}{BW \times AT}$
				IR	Ingestion Rate of Water	50	mL/hr	USEPA, 1989	
				ET	Exposure Time	0.5	hrs/day	Prof. Judgement	
				EF	Exposure Frequency	5	days/year	assumption	
				ED	Exposure Duration	7	years	USEPA, 1994b	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,555	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	mg/µg	- -	
				CF2	Conversion Factor 2	0.001	L/mL	- -	
		Young Child	Station 01 (Swimming)	CW	Chemical Concentration in Water	see Table 3-3.1.CT	µg/L	see Table 3-3.1.CT	Chronic Daily Intake (CDI) (mg/kg-day) = $\frac{CW \times IR \times ET \times EF \times ED \times CF1 \times CF2}{BW \times AT}$
				IR	Ingestion Rate of Water	50	mL/hr	USEPA, 1989	
				ET	Exposure Time	0.5	hrs/day	Prof. Judgement	
				EF	Exposure Frequency	5	days/year	assumption	
				ED	Exposure Duration	2	years	USEPA, 1994b	
				BW	Body Weight	15	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	730	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	mg/µg	- -	
				CF2	Conversion Factor 2	0.001	L/mL	- -	

Adult SA term assumes exposure to face, forearms, hands, and lower legs.

Young child SA term assumes exposure to face, forearms, hands, lower legs, and feet.

TABLE 3-4.3.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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	Adult	Stations 14, CB-07, TT-30, and AM	CS	Chemical Concentration in Sediment	see Table 3-3.2.RME	mg/kg	see Table 3-3.2.RME	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Sediment	100	mg/day	USEPA, 1994b	$\frac{CS \times IR \times FI \times EF \times ED \times CF}{BW \times AT}$
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	24	years	USEPA, 1994b	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	8,760	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
			Stations 22/TT-22, NR, WG, WH, and AS	CS	Chemical Concentration in Sediment	see Table 3-3.2.RME	mg/kg	see Table 3-3.2.RME	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Sediment	100	mg/day	USEPA, 1994b	$\frac{CS \times IR \times FI \times EF \times ED \times CF}{BW \times AT}$
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	24	years	USEPA, 1994b	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	8,760	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
			Stations WS/WSS, CB-01, CB-02, CB-03, CB-04, and CB-06	CS	Chemical Concentration in Sediment	see Table 3-3.2.RME	mg/kg	see Table 3-3.2.RME	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Sediment	100	mg/day	USEPA, 1994b	$\frac{CS \times IR \times FI \times EF \times ED \times CF}{BW \times AT}$
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	104	days/year	assumption	
				ED	Exposure Duration	24	years	USEPA, 1994b	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	8,760	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	

TABLE 3-4.3.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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 (cont.)	Recreational User (cont.)	Adult (cont.)	Stations LP, KF, 16/TT-33, 09, 08, 07/DP, 05, AJRW, 03, and 01	CS	Chemical Concentration in Sediment	see Table 3-3.2.RME and Table 3-3.6.RME	mg/kg	see Table 3-3.2.RME and Table 3-3.6.RME	Chronic Daily Intake (CDI) (mg/kg-day) = CS x IR x FI x EF x ED x CF / BW x AT
				IR	Ingestion Rate of Sediment	100	mg/day	USEPA, 1994b	
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	78	days/year	assumption	
				ED	Exposure Duration	24	years	USEPA, 1994b	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	8,760	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
		Young Child	Stations 14, CB-07, TT-30, and AM	CS	Chemical Concentration in Sediment	see Table 3-3.2.RME	mg/kg	see Table 3-3.2.RME	Chronic Daily Intake (CDI) (mg/kg-day) = CS x IR x FI x EF x ED x CF / BW x AT
				IR	Ingestion Rate of Sediment	200	mg/day	USEPA, 1994b	
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	6	years	USEPA, 1994b	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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	- -	
			Stations 22/TT-22, NR, WG, WH, and AS	CS	Chemical Concentration in Sediment	see Table 3-3.2.RME	mg/kg	see Table 3-3.2.RME	Chronic Daily Intake (CDI) (mg/kg-day) = CS x IR x FI x EF x ED x CF / BW x AT
				IR	Ingestion Rate of Sediment	200	mg/day	USEPA, 1994b	
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	6	years	USEPA, 1994b	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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 3-4.3.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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 (cont.)	Recreational User (cont.)	Young Child (cont.)	Stations WS/WSS, CB-01, CB-02, CB-03, CB-04, and CB-06	CS	Chemical Concentration in Sediment	see Table 3-3.2.RME	mg/kg	see Table 3-3.2.RME	Chronic Daily Intake (CDI) (mg/kg-day) = $\frac{CS \times IR \times FI \times EF \times ED \times CF}{BW \times AT}$
				IR	Ingestion Rate of Sediment	200	mg/day	USEPA, 1994b	
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	104	days/year	assumption	
				ED	Exposure Duration	6	years	USEPA, 1994b	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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	- -	
			Stations LP, KF, 16/TT-33, 09, 08, 07/DP, 05, AJRW, 03, and 01	CS	Chemical Concentration in Sediment	see Table 3-3.2.RME and Table 3-3.6.RME	mg/kg	see Table 3-3.2.RME and Table 3-3.6.RME	Chronic Daily Intake (CDI) (mg/kg-day) = $\frac{CS \times IR \times FI \times EF \times ED \times CF}{BW \times AT}$
				IR	Ingestion Rate of Sediment	200	mg/day	USEPA, 1994b	
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	78	days/year	assumption	
				ED	Exposure Duration	6	years	USEPA, 1994b	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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	Adult	Stations 14, CB-07, TT-30, and AM	CS	Chemical Concentration in Sediment	see Table 3-3.2.RME	mg/kg	see Table 3-3.2.RME	CDI (mg/kg-day) = $\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				SA	Skin Surface Area Available for Contact	5,700	cm^2	USEPA, 2004d	
				AF	Skin Adherence Factor	0.07	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	24	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	- -	- -	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	8,760	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	

TABLE 3-4.3.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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
Dermal (cont.)	Recreational User (cont.)	Adult (cont.)	Stations 22/TT-22, NR, WG, WH, and AS	CS	Chemical Concentration in Sediment	see Table 3-3.2.RME	mg/kg	see Table 3-3.2.RME	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	5,700	cm^2	USEPA, 2004d	$\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				AF	Skin Adherence Factor	0.07	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	24	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	--	--	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	8,760	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	--	
			Stations WS/WSS, CB-01, CB-02, CB-03, CB-04, and CB-06	CS	Chemical Concentration in Sediment	see Table 3-3.2.RME	mg/kg	see Table 3-3.2.RME	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	5,700	cm^2	USEPA, 2004d	$\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				AF	Skin Adherence Factor	0.07	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	104	days/year	assumption	
				ED	Exposure Duration	24	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	--	--	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	8,760	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	--	
			Stations LP, KF, 16/TT-33, 09, 08, 07/DP, 05, AJRW, 03, and 01	CS	Chemical Concentration in Sediment	see Table 3-3.2.RME and Table 3-3.6.RME	mg/kg	see Table 3-3.2.RME and Table 3-3.6.RME	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	5,700	cm^2	USEPA, 2004d	$\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				AF	Skin Adherence Factor	0.07	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	78	days/year	assumption	
				ED	Exposure Duration	24	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	--	--	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	8,760	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	--	

TABLE 3-4.3.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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
Dermal (cont.)	Recreational User (cont.)	Young Child	Stations 14, CB-07, TT-30, and AM	CS	Chemical Concentration in Sediment	see Table 3-3.2.RME	mg/kg	see Table 3-3.2.RME	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	2,800	cm^2	USEPA, 2004d	$\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	6	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	- -	- -	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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	- -	
			Stations 22/TT-22, NR, WG, WH, and AS	CS	Chemical Concentration in Sediment	see Table 3-3.2.RME	mg/kg	see Table 3-3.2.RME	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	2,800	cm^2	USEPA, 2004d	$\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	6	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	- -	- -	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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	- -	
			Stations WS/WSS, CB-01, CB-02, CB-03, CB-04, and CB-06	CS	Chemical Concentration in Sediment	see Table 3-3.2.RME	mg/kg	see Table 3-3.2.RME	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	2,800	cm^2	USEPA, 2004d	$\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	104	days/year	assumption	
				ED	Exposure Duration	6	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	- -	- -	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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 3-4.3.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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
Dermal (cont.)	Recreational User (cont.)	Young Child (cont.)	Stations LP, KF, 16/TT-33, 09, 08, 07/DP, 05, AJRW, 03, and 01	CS	Chemical Concentration in Sediment	see Table 3-3.2.RME and Table 3-3.6.RME	mg/kg	see Table 3-3.2.RME and Table 3-3.6.RME	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	2,800	cm^2	USEPA, 2004d	$\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	78	days/year	assumption	
				ED	Exposure Duration	6	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	- -	- -	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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	- -	

Adult SA term assumes exposure to face, forearms, hands, and lower legs.

Young child SA term assumes exposure to face, forearms, hands, lower legs, and feet.

Adult AF term is geometric mean value for adult gardeners.

Young child AF term is geometric mean value for children playing in wet soil.

TABLE 3-4.3.CT
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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	Adult	Stations 14, CB-07, TT 30, and AM	CS	Chemical Concentration in Sediment	see Table 3-3.2.CT	mg/kg	see Table 3-3.2.CT	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Sediment	50	mg/day	USEPA, 1994b	$\frac{CS \times IR \times FI \times EF \times ED \times CF}{BW \times AT}$
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	7	years	USEPA, 1994b	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,555	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
			Stations 22/TT-22, NR, WG, WH, and AS	CS	Chemical Concentration in Sediment	see Table 3-3.2.CT	mg/kg	see Table 3-3.2.CT	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Sediment	50	mg/day	USEPA, 1994b	$\frac{CS \times IR \times FI \times EF \times ED \times CF}{BW \times AT}$
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	7	years	USEPA, 1994b	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,555	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
			Stations WS/WSS, CB-01, CB-02, CB-03, CB-04, and CB-06	CS	Chemical Concentration in Sediment	see Table 3-3.2.CT	mg/kg	see Table 3-3.2.CT	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Sediment	50	mg/day	USEPA, 1994b	$\frac{CS \times IR \times FI \times EF \times ED \times CF}{BW \times AT}$
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	78	days/year	assumption	
				ED	Exposure Duration	7	years	USEPA, 1994b	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,555	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	

TABLE 3-4.3.CT
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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 (cont.)	Recreational User (cont.)	Adult (cont.)	Stations LP, KF, 16/TT-33, 09, 08, 07/DP, 05, AJRW, 03, and 01	CS	Chemical Concentration in Sediment	see Table 3-3.2.CT and Table 3-3.6.CT	mg/kg	see Table 3-3.2.CT and Table 3-3.6.CT	Chronic Daily Intake (CDI) (mg/kg-day) = $\frac{CS \times IR \times FI \times EF \times ED \times CF}{BW \times AT}$
				IR	Ingestion Rate of Sediment	50	mg/day	USEPA, 1994b	
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	7	years	USEPA, 1994b	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,555	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
		Young Child	Stations 14, CB-07, TT-30, and AM	CS	Chemical Concentration in Sediment	see Table 3-3.2.CT	mg/kg	see Table 3-3.2.CT	Chronic Daily Intake (CDI) (mg/kg-day) = $\frac{CS \times IR \times FI \times EF \times ED \times CF}{BW \times AT}$
				IR	Ingestion Rate of Sediment	100	mg/day	USEPA, 1994b	
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	2	years	USEPA, 1994b	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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	- -	
			Stations 22/TT-22, NR, WG, WH, and AS	CS	Chemical Concentration in Sediment	see Table 3-3.2.CT	mg/kg	see Table 3-3.2.CT	Chronic Daily Intake (CDI) (mg/kg-day) = $\frac{CS \times IR \times FI \times EF \times ED \times CF}{BW \times AT}$
				IR	Ingestion Rate of Sediment	100	mg/day	USEPA, 1994b	
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	2	years	USEPA, 1994b	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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 3-4.3.CT
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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 (cont.)	Recreational User (cont.)	Young Child (cont.)	Stations WS/WSS, CB-01, CB-02, CB-03, CB-04, and CB-06	CS	Chemical Concentration in Sediment	see Table 3-3.2.CT	mg/kg	see Table 3-3.2.CT	Chronic Daily Intake (CDI) (mg/kg-day) = $\frac{CS \times IR \times FI \times EF \times ED \times CF}{BW \times AT}$
				IR	Ingestion Rate of Sediment	100	mg/day	USEPA, 1994b	
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	78	days/year	assumption	
				ED	Exposure Duration	2	years	USEPA, 1994b	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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	- -	
			Stations LP, KF, 16/TT-33, 09, 08, 07/DP, 05, AJRW, 03, and 01	CS	Chemical Concentration in Sediment	see Table 3-3.2.CT and Table 3-3.6.CT	mg/kg	see Table 3-3.2.CT and Table 3-3.6.CT	Chronic Daily Intake (CDI) (mg/kg-day) = $\frac{CS \times IR \times FI \times EF \times ED \times CF}{BW \times AT}$
				IR	Ingestion Rate of Sediment	100	mg/day	USEPA, 1994b	
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	2	years	USEPA, 1994b	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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	Adult	Stations 14, CB-07, TT-30, and AM	CS	Chemical Concentration in Sediment	see Table 3-3.2.CT	mg/kg	see Table 3-3.2.CT	CDI (mg/kg-day) = $\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				SA	Skin Surface Area Available for Contact	5,700	cm^2	USEPA, 2004d	
				AF	Skin Adherence Factor	0.07	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	7	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	- -	- -	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,555	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	

TABLE 3-4.3.CT
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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
Dermal (cont.)	Recreational User (cont.)	Adult (cont.)	Stations 22/TT-22, NR, WG, WH, and AS	CS	Chemical Concentration in Sediment	see Table 3-3.2.CT	mg/kg	see Table 3-3.2.CT	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	5,700	cm^2	USEPA, 2004d	$\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				AF	Skin Adherence Factor	0.07	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	7	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	--	--	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,555	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	--	
			Stations WS/WSS, CB-01, CB-02, CB-03, CB-04, and CB-06	CS	Chemical Concentration in Sediment	see Table 3-3.2.CT	mg/kg	see Table 3-3.2.CT	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	5,700	cm^2	USEPA, 2004d	$\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				AF	Skin Adherence Factor	0.07	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	78	days/year	assumption	
				ED	Exposure Duration	7	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	--	--	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,555	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	--	
			Stations LP, KF, 16/TT-33, 09, 08, 07/DP, 05, AJRW, 03, and 01	CS	Chemical Concentration in Sediment	see Table 3-3.2.CT and Table 3-3.6.CT	mg/kg	see Table 3-3.2.CT and Table 3-3.6.CT	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	5,700	cm^2	USEPA, 2004d	$\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				AF	Skin Adherence Factor	0.07	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	7	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	--	--	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,555	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	--	

TABLE 3-4.3.CT
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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
Dermal (cont.)	Recreational User (cont.)	Young Child	Stations 14, CB-07, TT-30, and AM	CS	Chemical Concentration in Sediment	see Table 3-3.2.CT	mg/kg	see Table 3-3.2.CT	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	2,800	cm^2	USEPA, 2004d	$\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	2	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	--	--	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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	--	
			Stations 22/TT-22, NR, WG, WH, and AS	CS	Chemical Concentration in Sediment	see Table 3-3.2.CT	mg/kg	see Table 3-3.2.CT	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	2,800	cm^2	USEPA, 2004d	$\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	2	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	--	--	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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	--	
			Stations WS/WSS, CB-01, CB-02, CB-03, CB-04, and CB-06	CS	Chemical Concentration in Sediment	see Table 3-3.2.CT	mg/kg	see Table 3-3.2.CT	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	2,800	cm^2	USEPA, 2004d	$\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	78	days/year	assumption	
				ED	Exposure Duration	2	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	--	--	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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 3-4.3.CT
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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
Dermal (cont.)	Recreational User (cont.)	Young Child (cont.)	Stations LP, KF, 16/TT-33, 09, 08, 07/DP, 05, AJRW, 03, and 01	CS	Chemical Concentration in Sediment	see Table 3-3.2.CT and Table 3-3.6.CT	mg/kg	see Table 3-3.2.CT and Table 3-3.6.CT	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	2,800	cm^2	USEPA, 2004d	$\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	2	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	- -	- -	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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	- -	

Adult SA term assumes exposure to face, forearms, hands, and lower legs.

Young child SA term assumes exposure to face, forearms, hands, lower legs, and feet.

Adult AF term is geometric mean value for adult gardeners.

Young child AF term is geometric mean value for children playing in wet soil.

TABLE 3-4.4.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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	Adult	Stations CB-07, TT-30, and AM	CS	Chemical Concentration in Sediment	see Table 3-3.3.RME	mg/kg	see Table 3-3.3.RME	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Sediment	100	mg/day	USEPA, 1994b	$\frac{CS \times IR \times FI \times EF \times ED \times CF}{BW \times AT}$
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	24	years	USEPA, 1994b	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	8,760	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
			Stations NR and 14	CS	Chemical Concentration in Sediment	see Table 3-3.3.RME	mg/kg	see Table 3-3.3.RME	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Sediment	100	mg/day	USEPA, 1994b	$\frac{CS \times IR \times FI \times EF \times ED \times CF}{BW \times AT}$
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	52	days/year	assumption	
				ED	Exposure Duration	24	years	USEPA, 1994b	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	8,760	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
			Stations 22/TT-22, WG, WH, AS, NT-1, NT-2, NT-3, JY, 13/TT-27, WW, and TT-31	CS	Chemical Concentration in Sediment	see Table 3-3.3.RME	mg/kg	see Table 3-3.3.RME	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Sediment	100	mg/day	USEPA, 1994b	$\frac{CS \times IR \times FI \times EF \times ED \times CF}{BW \times AT}$
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	78	days/year	assumption	
				ED	Exposure Duration	24	years	USEPA, 1994b	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	8,760	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	

TABLE 3-4.4.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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 (cont.)	Recreational User (cont.)	Adult (cont.)	Stations WS/WSS, CB-01, CB-02, CB-03, CB-04, and CB-06	CS	Chemical Concentration in Sediment	see Table 3-3.3.RME	mg/kg	see Table 3-3.3.RME	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Sediment	100	mg/day	USEPA, 1994b	$\frac{CS \times IR \times FI \times EF \times ED \times CF}{BW \times AT}$
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	104	days/year	assumption	
				ED	Exposure Duration	24	years	USEPA, 1994b	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	8,760	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
			Stations LP, KF, 16/TT-33, 09, 08, 07/DP, 05, AJRW, 03, and 01	CS	Chemical Concentration in Sediment	see Table 3-3.2.RME and Table 3-3.6.RME	mg/kg	see Table 3-3.2.RME and Table 3-3.6.RME	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Sediment	100	mg/day	USEPA, 1994b	$\frac{CS \times IR \times FI \times EF \times ED \times CF}{BW \times AT}$
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	78	days/year	assumption	
				ED	Exposure Duration	24	years	USEPA, 1994b	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	8,760	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
		Young Child	Stations CB-07, TT-30, and AM	CS	Chemical Concentration in Sediment	see Table 3-3.3.RME	mg/kg	see Table 3-3.3.RME	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Sediment	200	mg/day	USEPA, 1994b	$\frac{CS \times IR \times FI \times EF \times ED \times CF}{BW \times AT}$
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	6	years	USEPA, 1994b	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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 3-4.4.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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 (cont.)	Recreational User (cont.)	Young Child (cont.)	Stations NR and 14	CS	Chemical Concentration in Sediment	see Table 3-3.3.RME	mg/kg	see Table 3-3.3.RME	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Sediment	200	mg/day	USEPA, 1994b	$\frac{CS \times IR \times FI \times EF \times ED \times CF}{BW \times AT}$
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	52	days/year	assumption	
				ED	Exposure Duration	6	years	USEPA, 1994b	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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	- -	
			Stations 22/TT-22, WG, WH, AS, NT-1, NT-2, NT-3, JY, 13/TT-27, WW, and TT-31	CS	Chemical Concentration in Sediment	see Table 3-3.3.RME	mg/kg	see Table 3-3.3.RME	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Sediment	200	mg/day	USEPA, 1994b	$\frac{CS \times IR \times FI \times EF \times ED \times CF}{BW \times AT}$
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	78	days/year	assumption	
				ED	Exposure Duration	6	years	USEPA, 1994b	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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	- -	
			Stations WS/WSS, CB-01, CB-02, CB-03, CB-04, and CB-06	CS	Chemical Concentration in Sediment	see Table 3-3.3.RME	mg/kg	see Table 3-3.3.RME	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Sediment	200	mg/day	USEPA, 1994b	$\frac{CS \times IR \times FI \times EF \times ED \times CF}{BW \times AT}$
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	104	days/year	assumption	
				ED	Exposure Duration	6	years	USEPA, 1994b	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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 3-4.4.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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 (cont.)	Recreational User (cont.)	Young Child (cont.)	Stations LP, KF, 16/TT-33, 09, 08, 07/DP, 05, AJRW, 03, and 01	CS	Chemical Concentration in Sediment	see Table 3-3.2.RME and Table 3-3.6.RME	mg/kg	see Table 3-3.2.RME and Table 3-3.6.RME	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Sediment	200	mg/day	USEPA, 1994b	$\frac{CS \times IR \times FI \times EF \times ED \times CF}{BW \times AT}$
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	78	days/year	assumption	
				ED	Exposure Duration	6	years	USEPA, 1994b	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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	Adult	Stations CB-07, TT-30, and AM	CS	Chemical Concentration in Sediment	see Table 3-3.3.RME	mg/kg	see Table 3-3.3.RME	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	5,700	cm^2	USEPA, 2004d	$\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				AF	Skin Adherence Factor	0.07	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	24	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	- -	- -	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	8,760	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
			Stations NR and 14	CS	Chemical Concentration in Sediment	see Table 3-3.3.RME	mg/kg	see Table 3-3.3.RME	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	5,700	cm^2	USEPA, 2004d	$\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				AF	Skin Adherence Factor	0.07	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	52	days/year	assumption	
				ED	Exposure Duration	24	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	- -	- -	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	8,760	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	

TABLE 3-4.4.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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
Dermal (cont.)	Recreational User (cont.)	Adult (cont.)	Stations 22/TT-22, WG, WH, AS, NT-1, NT-2, NT-3, JY, 13/TT-27, WW, and TT-31	CS	Chemical Concentration in Sediment	see Table 3-3.3.RME	mg/kg	see Table 3-3.3.RME	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	5,700	cm^2	USEPA, 2004d	$\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				AF	Skin Adherence Factor	0.07	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	78	days/year	assumption	
				ED	Exposure Duration	24	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	- -	- -	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	8,760	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
			Stations WS/WSS, CB-01, CB-02, CB-03, CB-04, and CB-06	CS	Chemical Concentration in Sediment	see Table 3-3.3.RME	mg/kg	see Table 3-3.3.RME	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	5,700	cm^2	USEPA, 2004d	$\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				AF	Skin Adherence Factor	0.07	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	104	days/year	assumption	
				ED	Exposure Duration	24	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	- -	- -	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	8,760	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
			Stations LP, KF, 16/TT-33, 09, 08, 07/DP, 05, AJRW, 03, and 01	CS	Chemical Concentration in Sediment	see Table 3-3.2.RME and Table 3-3.6.RME	mg/kg	see Table 3-3.2.RME and Table 3-3.6.RME	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	5,700	cm^2	USEPA, 2004d	$\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				AF	Skin Adherence Factor	0.07	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	78	days/year	assumption	
				ED	Exposure Duration	24	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	- -	- -	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	8,760	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	

TABLE 3-4.4.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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
Dermal (cont.)	Recreational User (cont.)	Young Child	Stations CB-07, TT-30, and AM	CS	Chemical Concentration in Sediment	see Table 3-3.3.RME	mg/kg	see Table 3-3.3.RME	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	2,800	cm^2	USEPA, 2004d	$\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	6	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	- -	- -	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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	- -	
			Stations NR and 14	CS	Chemical Concentration in Sediment	see Table 3-3.3.RME	mg/kg	see Table 3-3.3.RME	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	2,800	cm^2	USEPA, 2004d	$\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	52	days/year	assumption	
				ED	Exposure Duration	6	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	- -	- -	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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	- -	
			Stations 22/TT-22, WG, WH, AS, NT-1, NT-2, NT-3, JY, 13/TT-27, WW, and TT-31	CS	Chemical Concentration in Sediment	see Table 3-3.3.RME	mg/kg	see Table 3-3.3.RME	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	2,800	cm^2	USEPA, 2004d	$\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	78	days/year	assumption	
				ED	Exposure Duration	6	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	- -	- -	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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 3-4.4.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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
Dermal (cont.)	Recreational User (cont.)	Young Child (cont.)	Stations WS/WSS, CB-01, CB-02, CB-03, CB-04, and CB-06	CS	Chemical Concentration in Sediment	see Table 3-3.3.RME	mg/kg	see Table 3-3.3.RME	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	2,800	cm^2	USEPA, 2004d	$\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	104	days/year	assumption	
				ED	Exposure Duration	6	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	- -	- -	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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	- -	
			Stations LP, KF, 16/TT-33, 09, 08, 07/DP, 05, AJRW, 03, and 01	CS	Chemical Concentration in Sediment	see Table 3-3.2.RME and Table 3-3.6.RME	mg/kg	see Table 3-3.2.RME and Table 3-3.6.RME	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	2,800	cm^2	USEPA, 2004d	$\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	78	days/year	assumption	
				ED	Exposure Duration	6	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	- -	- -	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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	- -	

Adult SA term assumes exposure to face, forearms, hands, and lower legs.

Young child SA term assumes exposure to face, forearms, hands, lower legs, and feet.

Adult AF term is geometric mean value for adult gardeners.

Young child AF term is geometric mean value for children playing in wet soil.

TABLE 3-4.4.CT
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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	Adult	Stations CB-07, TT-30, and AM	CS	Chemical Concentration in Sediment	see Table 3-3.3.CT	mg/kg	see Table 3-3.3.CT	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Sediment	50	mg/day	USEPA, 1994b	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	assumption	
				ED	Exposure Duration	7	years	USEPA, 1994b	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,555	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
			Stations NR and 14	CS	Chemical Concentration in Sediment	see Table 3-3.3.CT	mg/kg	see Table 3-3.3.CT	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Sediment	50	mg/day	USEPA, 1994b	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	assumption	
				ED	Exposure Duration	7	years	USEPA, 1994b	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,555	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
			Stations 22/TT-22, WG, WH, AS, NT-1, NT-2, NT-3, JY, 13/TT-27, WW, and TT-31	CS	Chemical Concentration in Sediment	see Table 3-3.3.CT	mg/kg	see Table 3-3.3.CT	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Sediment	50	mg/day	USEPA, 1994b	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	assumption	
				ED	Exposure Duration	7	years	USEPA, 1994b	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,555	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	

TABLE 3-4.4.CT
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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 (cont.)	Recreational User (cont.)	Adult (cont.)	Stations WS/WSS, CB-01, CB-02, CB-03, CB-04, and CB-06	CS	Chemical Concentration in Sediment	see Table 3-3.3.CT	mg/kg	see Table 3-3.3.CT	Chronic Daily Intake (CDI) (mg/kg-day) = $\frac{CS \times IR \times FI \times EF \times ED \times CF}{BW \times AT}$
				IR	Ingestion Rate of Sediment	50	mg/day	USEPA, 1994b	
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	78	days/year	assumption	
				ED	Exposure Duration	7	years	USEPA, 1994b	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,555	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
			Stations LP, KF, 16/TT-33, 09, 08, 07/DP, 05, AJRW, 03, and 01	CS	Chemical Concentration in Sediment	see Table 3-3.2.CT and Table 3-3.6.CT	mg/kg	see Table 3-3.2.CT and Table 3-3.6.CT	Chronic Daily Intake (CDI) (mg/kg-day) = $\frac{CS \times IR \times FI \times EF \times ED \times CF}{BW \times AT}$
				IR	Ingestion Rate of Sediment	50	mg/day	USEPA, 1994b	
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	7	years	USEPA, 1994b	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,555	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
		Young Child	Stations CB-07, TT-30, and AM	CS	Chemical Concentration in Sediment	see Table 3-3.3.CT	mg/kg	see Table 3-3.3.CT	Chronic Daily Intake (CDI) (mg/kg-day) = $\frac{CS \times IR \times FI \times EF \times ED \times CF}{BW \times AT}$
				IR	Ingestion Rate of Sediment	100	mg/day	USEPA, 1994b	
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	2	years	USEPA, 1994b	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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 3-4.4.CT
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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 (cont.)	Recreational User (cont.)	Young Child (cont.)	Stations NR and 14	CS	Chemical Concentration in Sediment	see Table 3-3.3.CT	mg/kg	see Table 3-3.3.CT	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Sediment	100	mg/day	USEPA, 1994b	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	assumption	
				ED	Exposure Duration	2	years	USEPA, 1994b	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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	- -	
			Stations 22/TT-22, WG, WH, AS, NT-1, NT-2, NT-3, JY, 13/TT-27, WW, and TT-31	CS	Chemical Concentration in Sediment	see Table 3-3.3.CT	mg/kg	see Table 3-3.3.CT	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Sediment	100	mg/day	USEPA, 1994b	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	assumption	
				ED	Exposure Duration	2	years	USEPA, 1994b	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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	- -	
			Stations WS/WSS, CB-01, CB-02, CB-03, CB-04, and CB-06	CS	Chemical Concentration in Sediment	see Table 3-3.3.CT	mg/kg	see Table 3-3.3.CT	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Sediment	100	mg/day	USEPA, 1994b	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	78	days/year	assumption	
				ED	Exposure Duration	2	years	USEPA, 1994b	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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 3-4.4.CT
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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 (cont.)	Recreational User (cont.)	Young Child (cont.)	Stations LP, KF, 16/TT-33, 09, 08, 07/DP, 05, AJRW, 03, and 01	CS	Chemical Concentration in Sediment	see Table 3-3.2.CT and Table 3-3.6.CT	mg/kg	see Table 3-3.2.CT and Table 3-3.6.CT	Chronic Daily Intake (CDI) (mg/kg-day) = $\frac{CS \times IR \times FI \times EF \times ED \times CF}{BW \times AT}$
				IR	Ingestion Rate of Sediment	100	mg/day	USEPA, 1994b	
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	2	years	USEPA, 1994b	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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	Adult	Stations CB-07, TT-30, and AM	CS	Chemical Concentration in Sediment	see Table 3-3.3.CT	mg/kg	see Table 3-3.3.CT	CDI (mg/kg-day) = $\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				SA	Skin Surface Area Available for Contact	5,700	cm^2	USEPA, 2004d	
				AF	Skin Adherence Factor	0.07	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	7	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	- -	- -	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,555	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
			Stations NR and 14	CS	Chemical Concentration in Sediment	see Table 3-3.3.CT	mg/kg	see Table 3-3.3.CT	CDI (mg/kg-day) = $\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				SA	Skin Surface Area Available for Contact	5,700	cm^2	USEPA, 2004d	
				AF	Skin Adherence Factor	0.07	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	7	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	- -	- -	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,555	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	

TABLE 3-4.4.CT
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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
Dermal (cont.)	Recreational User (cont.)	Adult (cont.)	Stations 22/TT-22, WG, WH, AS, NT-1, NT-2, NT-3, JY, 13/TT-27, WW, and TT-31	CS	Chemical Concentration in Sediment	see Table 3-3.3.CT	mg/kg	see Table 3-3.3.CT	CDI (mg/kg-day) = $\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				SA	Skin Surface Area Available for Contact	5,700	cm^2	USEPA, 2004d	
				AF	Skin Adherence Factor	0.07	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	7	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	--	--	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,555	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	--	
			Stations WS/WSS, CB-01, CB-02, CB-03, CB-04, and CB-06	CS	Chemical Concentration in Sediment	see Table 3-3.3.CT	mg/kg	see Table 3-3.3.CT	CDI (mg/kg-day) = $\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				SA	Skin Surface Area Available for Contact	5,700	cm^2	USEPA, 2004d	
				AF	Skin Adherence Factor	0.07	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	78	days/year	assumption	
				ED	Exposure Duration	7	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	--	--	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,555	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	--	
			Stations LP, KF, 16/TT-33, 09, 08, 07/DP, 05, AJRW, 03, and 01	CS	Chemical Concentration in Sediment	see Table 3-3.2.CT and Table 3-3.6.CT	mg/kg	see Table 3-3.2.CT and Table 3-3.6.CT	CDI (mg/kg-day) = $\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				SA	Skin Surface Area Available for Contact	5,700	cm^2	USEPA, 2004d	
				AF	Skin Adherence Factor	0.07	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	7	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	--	--	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,555	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	--	

TABLE 3-4.4.CT
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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
Dermal (cont.)	Recreational User (cont.)	Young Child	Stations CB-07, TT-30, and AM	CS	Chemical Concentration in Sediment	see Table 3-3.3.CT	mg/kg	see Table 3-3.3.CT	CDI (mg/kg-day) = $\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				SA	Skin Surface Area Available for Contact	2,800	cm^2	USEPA, 2004d	
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	2	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	--	--	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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	--	
			Stations NR and 14	CS	Chemical Concentration in Sediment	see Table 3-3.3.CT	mg/kg	see Table 3-3.3.CT	CDI (mg/kg-day) = $\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				SA	Skin Surface Area Available for Contact	2,800	cm^2	USEPA, 2004d	
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	2	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	--	--	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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	--	
			Stations 22/TT-22, WG, WH, AS, NT-1, NT-2, NT-3, JY, 13/TT-27, WW, and TT-31	CS	Chemical Concentration in Sediment	see Table 3-3.3.CT	mg/kg	see Table 3-3.3.CT	CDI (mg/kg-day) = $\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				SA	Skin Surface Area Available for Contact	2,800	cm^2	USEPA, 2004d	
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	2	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	--	--	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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 3-4.4.CT
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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
Dermal (cont.)	Recreational User (cont.)	Young Child (cont.)	Stations WS/WSS, CB-01, CB-02, CB-03, CB-04, and CB-06	CS	Chemical Concentration in Sediment	see Table 3-3.3.CT	mg/kg	see Table 3-3.3.CT	CDI (mg/kg-day) = $\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				SA	Skin Surface Area Available for Contact	2,800	cm^2	USEPA, 2004d	
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	78	days/year	assumption	
				ED	Exposure Duration	2	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	- -	- -	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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	- -	
			Stations LP, KF, 16/TT-33, 09, 08, 07/DP, 05, AJRW, 03, and 01	CS	Chemical Concentration in Sediment	see Table 3-3.2.CT and Table 3-3.6.CT	mg/kg	see Table 3-3.2.CT and Table 3-3.6.CT	CDI (mg/kg-day) = $\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				SA	Skin Surface Area Available for Contact	2,800	cm^2	USEPA, 2004d	
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	2	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	- -	- -	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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	- -	

Adult SA term assumes exposure to face, forearms, hands, and lower legs.

Young child SA term assumes exposure to face, forearms, hands, lower legs, and feet.

Adult AF term is geometric mean value for adult gardeners.

Young child AF term is geometric mean value for children playing in wet soil.

TABLE 3-4.5.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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	Recreational User	Adult	Station NR	CS	Chemical Concentration in Soil	see Table 3-3.4.RME	mg/kg	see Table 3-3.4.RME	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Soil	100	mg/day	USEPA, 1994b	$\frac{CS \times IR \times FI \times EF \times ED \times CF}{BW \times AT}$
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	24	years	USEPA, 1994b	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	8,760	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
			Stations 07/DP, KF, AJRW, and DA	CS	Chemical Concentration in Soil	see Table 3-3.4.RME and Table 3-3.7.RME	mg/kg	see Table 3-3.4.RME and Table 3-3.7.RME	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Soil	100	mg/day	USEPA, 1994b	$\frac{CS \times IR \times FI \times EF \times ED \times CF}{BW \times AT}$
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	78	days/year	assumption	
				ED	Exposure Duration	24	years	USEPA, 1994b	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	8,760	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
			Stations WS/WSS and CB-05	CS	Chemical Concentration in Soil	see Table 3-3.4.RME	mg/kg	see Table 3-3.4.RME	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Soil	100	mg/day	USEPA, 1994b	$\frac{CS \times IR \times FI \times EF \times ED \times CF}{BW \times AT}$
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	104	days/year	assumption	
				ED	Exposure Duration	24	years	USEPA, 1994b	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	8,760	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
		Young Child	Station NR	CS	Chemical Concentration in Soil	see Table 3-3.4.RME	mg/kg	see Table 3-3.4.RME	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Soil	200	mg/day	USEPA, 1994b	$\frac{CS \times IR \times FI \times EF \times ED \times CF}{BW \times AT}$
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	6	years	USEPA, 1994b	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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 3-4.5.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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 (cont.)	Recreational User (cont.)	Young Child (cont.)	Stations 07/DP, KF, AJRW, and DA	CS	Chemical Concentration in Soil	see Table 3-3.4.RME and Table 3-3.7.RME	mg/kg	see Table 3-3.4.RME and Table 3-3.7.RME	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Soil	200	mg/day	USEPA, 1994b	$\frac{CS \times IR \times FI \times EF \times ED \times CF}{BW \times AT}$
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	78	days/year	assumption	
				ED	Exposure Duration	6	years	USEPA, 1994b	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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	--	
			Stations WS/WSS and CB-05	CS	Chemical Concentration in Soil	see Table 3-3.4.RME	mg/kg	see Table 3-3.4.RME	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Soil	200	mg/day	USEPA, 1994b	$\frac{CS \times IR \times FI \times EF \times ED \times CF}{BW \times AT}$
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	104	days/year	assumption	
				ED	Exposure Duration	6	years	USEPA, 1994b	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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	Adult	Station NR	CS	Chemical Concentration in Soil	see Table 3-3.4.RME	mg/kg	see Table 3-3.4.RME	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	5,700	cm^2	USEPA, 2004d	$\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				AF	Skin Adherence Factor	0.07	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	24	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	--	--	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	8,760	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	--	

TABLE 3-4.5.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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 (cont.)	Recreational User (cont.)	Adult (cont.)	Stations 07/DP, KF, AJRW, and DA	CS	Chemical Concentration in Soil	see Table 3-3.4.RME and Table 3-3.7.RME	mg/kg	see Table 3-3.4.RME and Table 3-3.7.RME	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	5,700	cm^2	USEPA, 2004d	$\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				AF	Skin Adherence Factor	0.07	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	78	days/year	assumption	
				ED	Exposure Duration	24	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	--	--	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	8,760	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	--	
			Stations WS/WSS and CB-05	CS	Chemical Concentration in Soil	see Table 3-3.4.RME	mg/kg	see Table 3-3.4.RME	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	5,700	cm^2	USEPA, 2004d	$\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				AF	Skin Adherence Factor	0.07	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	104	days/year	assumption	
				ED	Exposure Duration	24	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	--	--	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	8,760	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	--	
		Young Child	Station NR	CS	Chemical Concentration in Soil	see Table 3-3.4.RME	mg/kg	see Table 3-3.4.RME	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	2,800	cm^2	USEPA, 2004d	$\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	6	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	--	--	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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 3-4.5.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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 (cont.)	Recreational User (cont.)	Young Child (cont.)	Stations 07/DP, KF, AJRW, and DA	CS	Chemical Concentration in Soil	see Table 3-3.4.RME and Table 3-3.7.RME	mg/kg	see Table 3-3.4.RME and Table 3-3.7.RME	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	2,800	cm^2	USEPA, 2004d	$\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	78	days/year	assumption	
				ED	Exposure Duration	6	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	- -	- -	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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	- -	
			Stations WS/WSS and CB-05	CS	Chemical Concentration in Soil	see Table 3-3.4.RME	mg/kg	see Table 3-3.4.RME	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	2,800	cm^2	USEPA, 2004d	$\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	104	days/year	assumption	
				ED	Exposure Duration	6	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	- -	- -	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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	- -	

Adult SA term assumes exposure to face, forearms, hands, and lower legs.

Young child SA term assumes exposure to face, forearms, hands, lower legs, and feet.

Adult AF term is geometric mean value for adult gardeners.

Young child AF term is geometric mean value for children playing in wet soil.

TABLE 3-4.5.CT
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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	Recreational User	Adult	Station NR	CS	Chemical Concentration in Soil	see Table 3-3.4.CT	mg/kg	see Table 3-3.4.CT	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Soil	50	mg/day	USEPA, 1994b	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	assumption	
				ED	Exposure Duration	7	years	USEPA, 1994b	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,555	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
			Stations 07/DP, KF, AJRW, and DA	CS	Chemical Concentration in Soil	see Table 3-3.4.CT and Table 3-3.7.CT	mg/kg	see Table 3-3.4.CT and Table 3-3.7.CT	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Soil	50	mg/day	USEPA, 1994b	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	assumption	
				ED	Exposure Duration	7	years	USEPA, 1994b	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,555	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
			Stations WS/WSS and CB-05	CS	Chemical Concentration in Soil	see Table 3-3.4.CT	mg/kg	see Table 3-3.4.CT	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Soil	50	mg/day	USEPA, 1994b	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	78	days/year	assumption	
				ED	Exposure Duration	7	years	USEPA, 1994b	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,555	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
		Young Child	Station NR	CS	Chemical Concentration in Soil	see Table 3-3.4.CT	mg/kg	see Table 3-3.4.CT	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Soil	100	mg/day	USEPA, 1994b	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	assumption	
				ED	Exposure Duration	2	years	USEPA, 1994b	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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 3-4.5.CT
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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 (cont.)	Recreational User (cont.)	Young Child (cont.)	Stations 07/DP, KF, AJRW, and DA	CS	Chemical Concentration in Soil	see Table 3-3.4.CT and Table 3-3.7.CT	mg/kg	see Table 3-3.4.CT and Table 3-3.7.CT	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Soil	100	mg/day	USEPA, 1994b	$\frac{CS \times IR \times FI \times EF \times ED \times CF}{BW \times AT}$
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	2	years	USEPA, 1994b	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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	--	
			Stations WS/WSS and CB-05	CS	Chemical Concentration in Soil	see Table 3-3.4.CT	mg/kg	see Table 3-3.4.CT	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Soil	200	mg/day	USEPA, 1994b	$\frac{CS \times IR \times FI \times EF \times ED \times CF}{BW \times AT}$
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	78	days/year	assumption	
				ED	Exposure Duration	6	years	USEPA, 1994b	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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	Adult	Station NR	CS	Chemical Concentration in Soil	see Table 3-3.4.CT	mg/kg	see Table 3-3.4.CT	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	5,700	cm^2	USEPA, 2004d	$\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				AF	Skin Adherence Factor	0.07	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	7	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	--	--	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,555	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	--	

TABLE 3-4.5.CT
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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 (cont.)	Recreational User (cont.)	Adult (cont.)	Stations 07/DP, KF, AJRW, and DA	CS	Chemical Concentration in Soil	see Table 3-3.4.CT and Table 3-3.7.CT	mg/kg	see Table 3-3.4.CT and Table 3-3.7.CT	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	5,700	cm^2	USEPA, 2004d	$\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				AF	Skin Adherence Factor	0.07	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	7	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	--	--	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,555	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	--	
			Stations WS/WSS and CB-05	CS	Chemical Concentration in Soil	see Table 3-3.4.CT	mg/kg	see Table 3-3.4.CT	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	5,700	cm^2	USEPA, 2004d	$\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				AF	Skin Adherence Factor	0.07	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	78	days/year	assumption	
				ED	Exposure Duration	7	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	--	--	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,555	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	--	
		Young Child	Station NR	CS	Chemical Concentration in Soil	see Table 3-3.4.CT	mg/kg	see Table 3-3.4.CT	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	2,800	cm^2	USEPA, 2004d	$\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	2	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	--	--	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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 3-4.5.CT
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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 (cont.)	Recreational User (cont.)	Young Child (cont.)	Stations 07/DP, KF, AJRW, and DA	CS	Chemical Concentration in Soil	see Table 3-3.4.CT and Table 3-3.7.CT	mg/kg	see Table 3-3.4.CT and Table 3-3.7.CT	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	2,800	cm^2	USEPA, 2004d	$\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	2	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	- -	- -	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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	- -	
			Stations WS/WSS and CB-05	CS	Chemical Concentration in Soil	see Table 3-3.4.CT	mg/kg	see Table 3-3.4.CT	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	2,800	cm^2	USEPA, 2004d	$\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	78	days/year	assumption	
				ED	Exposure Duration	2	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	- -	- -	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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	- -	

Adult SA term assumes exposure to face, forearms, hands, and lower legs.

Young child SA term assumes exposure to face, forearms, hands, lower legs, and feet.

Adult AF term is geometric mean value for adult gardeners.

Young child AF term is geometric mean value for children playing in wet soil.

TABLE 3-4.6.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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	Recreational User	Adult	Station NR	CS	Chemical Concentration in Soil	see Table 3-3.4.RME	mg/kg	see Table 3-3.4.RME	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Soil	100	mg/day	USEPA, 1994b	$\frac{CS \times IR \times FI \times EF \times ED \times CF}{BW \times AT}$
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	52	days/year	assumption	
				ED	Exposure Duration	24	years	USEPA, 1994b	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	8,760	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	--	
			Stations 07/DP, KF, AJRW, and DA	CS	Chemical Concentration in Soil	see Table 3-3.4.RME and Table 3-3.7.RME	mg/kg	see Table 3-3.4.RME and Table 3-3.7.RME	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Soil	100	mg/day	USEPA, 1994b	$\frac{CS \times IR \times FI \times EF \times ED \times CF}{BW \times AT}$
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	78	days/year	assumption	
				ED	Exposure Duration	24	years	USEPA, 1994b	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	8,760	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	--	
			Stations WS/WSS and CB-05	CS	Chemical Concentration in Soil	see Table 3-3.4.RME	mg/kg	see Table 3-3.4 RME	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Soil	100	mg/day	USEPA, 1994b	$\frac{CS \times IR \times FI \times EF \times ED \times CF}{BW \times AT}$
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	104	days/year	assumption	
				ED	Exposure Duration	24	years	USEPA, 1994b	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	8,760	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	--	
		Young Child	Station NR	CS	Chemical Concentration in Soil	see Table 3-3.4.RME	mg/kg	see Table 3-3.4.RME	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Soil	200	mg/day	USEPA, 1994b	$\frac{CS \times IR \times FI \times EF \times ED \times CF}{BW \times AT}$
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	52	days/year	assumption	
				ED	Exposure Duration	6	years	USEPA, 1994b	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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 3-4.6.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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 (cont.)	Recreational User (cont.)	Young Child (cont.)	Stations 07/DP, KF, AJRW, and DA	CS	Chemical Concentration in Soil	see Table 3-3.4.RME and Table 3-3.7.RME	mg/kg	see Table 3-3.4.RME and Table 3-3.7.RME	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Soil	200	mg/day	USEPA, 1994b	$\frac{CS \times IR \times FI \times EF \times ED \times CF}{BW \times AT}$
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	78	days/year	assumption	
				ED	Exposure Duration	6	years	USEPA, 1994b	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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	--	
			Stations WS/WSS and CB-05	CS	Chemical Concentration in Soil	see Table 3-3.4.RME	mg/kg	see Table 3-3.4.RME	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Soil	200	mg/day	USEPA, 1994b	$\frac{CS \times IR \times FI \times EF \times ED \times CF}{BW \times AT}$
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	104	days/year	assumption	
				ED	Exposure Duration	6	years	USEPA, 1994b	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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	Adult	Station NR	CS	Chemical Concentration in Soil	see Table 3-3.4.RME	mg/kg	see Table 3-3.4.RME	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	5,700	cm^2	USEPA, 2004d	$\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				AF	Skin Adherence Factor	0.07	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	52	days/year	assumption	
				ED	Exposure Duration	24	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	--	--	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	8,760	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	--	

TABLE 3-4.6.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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
Dermal (cont.)	Recreational User (cont.)	Adult (cont.)	Stations 07/DP, KF, AJRW, and DA	CS	Chemical Concentration in Soil	see Table 3-3.4.RME and Table 3-3.7.RME	mg/kg	see Table 3-3.4.RME and Table 3-3.7.RME	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	5,700	cm^2	USEPA, 2004d	$\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				AF	Skin Adherence Factor	0.07	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	78	days/year	assumption	
				ED	Exposure Duration	24	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	--	--	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	8,760	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	--	
			Stations WS/WSS and CB-05	CS	Chemical Concentration in Soil	see Table 3-3.4.RME	mg/kg	see Table 3-3.4.RME	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	5,700	cm^2	USEPA, 2004d	$\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				AF	Skin Adherence Factor	0.07	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	104	days/year	assumption	
				ED	Exposure Duration	24	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	--	--	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	8,760	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	--	
		Young Child	Station NR	CS	Chemical Concentration in Soil	see Table 3-3.4.RME	mg/kg	see Table 3-3.4.RME	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	2,800	cm^2	USEPA, 2004d	$\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	52	days/year	assumption	
				ED	Exposure Duration	6	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	--	--	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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 3-4.6.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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
Dermal (cont.)	Recreational User (cont.)	Young Child (cont.)	Stations 07/DP, KF, AJRW, and DA	CS	Chemical Concentration in Soil	see Table 3-3.4.RME and Table 3-3.7.RME	mg/kg	see Table 3-3.4.RME and Table 3-3.7.RME	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	2,800	cm^2	USEPA, 2004d	$\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	78	days/year	assumption	
				ED	Exposure Duration	6	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	--	--	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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	--	
			Stations WS/WSS and CB-05	CS	Chemical Concentration in Soil	see Table 3-3.4.RME	mg/kg	see Table 3-3.4.RME	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	2,800	cm^2	USEPA, 2004d	$\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	104	days/year	assumption	
				ED	Exposure Duration	6	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	--	--	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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	--	

Adult SA term assumes exposure to face, forearms, hands, and lower legs.

Young child SA term assumes exposure to face, forearms, hands, lower legs, and feet.

Adult AF term is geometric mean value for adult gardeners.

Young child AF term is geometric mean value for children playing in wet soil.

TABLE 3-4.6.CT
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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	Recreational User	Adult	Station NR	CS	Chemical Concentration in Soil	see Table 3-3.4.CT	mg/kg	see Table 3-3.4.CT	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Soil	50	mg/day	USEPA, 1994b	$\frac{CS \times IR \times FI \times EF \times ED \times CF}{BW \times AT}$
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	7	years	USEPA, 1994b	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,555	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	--	
			Stations 07/DP, KF, AJRW, and DA	CS	Chemical Concentration in Soil	see Table 3-3.4.CT and Table 3-3.7.CT	mg/kg	see Table 3-3.4.CT and Table 3-3.7.CT	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Soil	50	mg/day	USEPA, 1994b	$\frac{CS \times IR \times FI \times EF \times ED \times CF}{BW \times AT}$
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	7	years	USEPA, 1994b	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,555	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	--	
			Stations WS/WSS and CB-05	CS	Chemical Concentration in Soil	see Table 3-3.4.CT	mg/kg	see Table 3-3.4.CT	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Soil	50	mg/day	USEPA, 1994b	$\frac{CS \times IR \times FI \times EF \times ED \times CF}{BW \times AT}$
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	78	days/year	assumption	
				ED	Exposure Duration	7	years	USEPA, 1994b	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,555	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	--	
		Young Child	Station NR	CS	Chemical Concentration in Soil	see Table 3-3.4.CT	mg/kg	see Table 3-3.4.CT	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Soil	100	mg/day	USEPA, 1994b	$\frac{CS \times IR \times FI \times EF \times ED \times CF}{BW \times AT}$
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	2	years	USEPA, 1994b	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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 3-4.6.CT
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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 (cont.)	Recreational User (cont.)	Young Child (cont.)	Stations 07/DP, KF, AJRW, and DA	CS	Chemical Concentration in Soil	see Table 3-3.4.CT and Table 3-3.7.CT	mg/kg	see Table 3-3.4.CT and Table 3-3.7.CT	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Soil	100	mg/day	USEPA, 1994b	$\frac{CS \times IR \times FI \times EF \times ED \times CF}{BW \times AT}$
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	2	years	USEPA, 1994b	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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	--	
			Stations WS/WSS and CB-05	CS	Chemical Concentration in Soil	see Table 3-3.4.CT	mg/kg	see Table 3-3.4.CT	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Soil	200	mg/day	USEPA, 1994b	$\frac{CS \times IR \times FI \times EF \times ED \times CF}{BW \times AT}$
				FI	Fraction Ingested	0.5	unitless	Prof. Judgement	
				EF	Exposure Frequency	78	days/year	assumption	
				ED	Exposure Duration	6	years	USEPA, 1994b	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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	Adult	Station NR	CS	Chemical Concentration in Soil	see Table 3-3.4.CT	mg/kg	see Table 3-3.4.CT	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	5,700	cm^2	USEPA, 2004d	$\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				AF	Skin Adherence Factor	0.07	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	7	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	--	--	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,555	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	--	

TABLE 3-4.6.CT
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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
Dermal (cont.)	Recreational User (cont.)	Adult (cont.)	Stations 07/DP, KF, AJRW, and DA	CS	Chemical Concentration in Soil	see Table 3-3.4.CT and Table 3-3.7.CT	mg/kg	see Table 3-3.4.CT and Table 3-3.7.CT	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	5,700	cm^2	USEPA, 2004d	$\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				AF	Skin Adherence Factor	0.07	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	7	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	--	--	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,555	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	--	
			Stations WS/WSS and CB-05	CS	Chemical Concentration in Soil	see Table 3-3.4.CT	mg/kg	see Table 3-3.4.CT	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	5,700	cm^2	USEPA, 2004d	$\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				AF	Skin Adherence Factor	0.07	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	78	days/year	assumption	
				ED	Exposure Duration	7	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	--	--	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,555	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	--	
		Young Child	Station NR	CS	Chemical Concentration in Soil	see Table 3-3.4.CT	mg/kg	see Table 3-3.4.CT	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	2,800	cm^2	USEPA, 2004d	$\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	2	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	--	--	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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 3-4.6.CT
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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
Dermal (cont.)	Recreational User (cont.)	Young Child (cont.)	Stations 07/DP, KF, AJRW, and DA	CS	Chemical Concentration in Soil	see Table 3-3.4.CT and Table 3-3.7.CT	mg/kg	see Table 3-3.4.CT and Table 3-3.7.CT	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	2,800	cm^2	USEPA, 2004d	$\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	26	days/year	assumption	
				ED	Exposure Duration	2	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	--	--	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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	--	
			Stations WS/WSS and CB-05	CS	Chemical Concentration in Soil	see Table 3-3.4.CT	mg/kg	see Table 3-3.4.CT	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	2,800	cm^2	USEPA, 2004d	$\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	78	days/year	assumption	
				ED	Exposure Duration	2	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	--	--	
				BW	Body Weight	15	kg	USEPA, 1994b	
				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	--	

Adult SA term assumes exposure to face, forearms, hands, and lower legs.

Young child SA term assumes exposure to face, forearms, hands, lower legs, and feet.

Adult AF term is geometric mean value for adult gardeners.

Young child AF term is geometric mean value for children playing in wet soil.

TABLE 3-4.7.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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	Aberjona River Reaches	CF	Chemical Concentration in Fish	see Table 3-3.5.RME	mg/kg	see Table 3-3.5.RME	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Fish	13,000	mg/day	USEPA, 1997	$\frac{CF \times IR \times EF \times ED \times FI \times CF1}{BW \times AT}$
				EF	Exposure Frequency	365	days/year	USEPA, 1994b	
				ED	Exposure Duration	24	years	USEPA, 1994b	
				FI	Fraction Ingested From Site	0.5	--	assumption	
				BW	Body Weight	70	kg	USEPA, 1994b	
				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	--	
		Older Child	Aberjona River Reaches	CF	Chemical Concentration in Fish	see Table 3-3.5.RME	mg/kg	see Table 3-3.5.RME	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Fish	6,500	mg/day	assumption	$\frac{CF \times IR \times EF \times ED \times FI \times CF1}{BW \times AT}$
				EF	Exposure Frequency	365	days/year	USEPA, 1994b	
				ED	Exposure Duration	6	years	USEPA, 1994b	
				FI	Fraction Ingested From Site	0.5	--	assumption	
				BW	Body Weight	31	kg	USEPA, 2001b	
				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 3-4.7.CT
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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	Aberjona River Reaches	CF	Chemical Concentration in Fish	see Table 3-3.5.CT	mg/kg	see Table 3-3.5.CT	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Fish	5,000	mg/day	USEPA, 1997	$\frac{CF \times IR \times EF \times ED \times FI \times CF1}{BW \times AT}$
				EF	Exposure Frequency	365	days/year	USEPA, 1994b	
				ED	Exposure Duration	7	years	USEPA, 1994b	
				FI	Fraction Ingested From Site	0.5	- -	assumption	
				BW	Body Weight	70	kg	USEPA, 1994b	
				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	- -	
		Older Child	Aberjona River Reaches	CF	Chemical Concentration in Fish	see Table 3-3.5.CT	mg/kg	see Table 3-3.5.CT	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Fish	2,500	mg/day	assumption	$\frac{CF \times IR \times EF \times ED \times FI \times CF1}{BW \times AT}$
				EF	Exposure Frequency	365	days/year	USEPA, 1994b	
				ED	Exposure Duration	2	years	USEPA, 1994b	
				FI	Fraction Ingested From Site	0.5	- -	assumption	
				BW	Body Weight	31	kg	USEPA, 2001b	
				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 3-4.8.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Surface Water
Exposure Medium: Baseflow 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	Adult	SW-05 through SW-09	CW	Chemical Concentration in Water	see Table 3-3.8.RME	µg/L	see Table 3-3.8.RME	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm^2-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	5700	cm^2	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	$\frac{DA \times SA \times EV \times EF \times ED}{BW \times AT}$
				ET	Event Time	1	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	events/day	Prof. Judgement	
				EF	Exposure Frequency	26, 52, 78, or 104	days/year	assumption	Inorganics:
				ED	Exposure Duration	24	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	70	kg	USEPA, 1994b	
				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)	8760	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	L/cm^3	- -	
				CF2	Conversion Factor 2	0.001	mg/µg	- -	
			SW-10 (Swimming)	CW	Chemical Concentration in Water	see Table 3-3.8.RME	µg/L	see Table 3-3.8.RME	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm^2-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	18000	cm^2	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	$\frac{DA \times SA \times EV \times EF \times ED}{BW \times AT}$
				ET	Event Time	1	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	event/day	Prof. Judgement	
				EF	Exposure Frequency	39	days/year	assumption	Inorganics:
				ED	Exposure Duration	24	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	70	kg	USEPA, 1994b	
				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)	8760	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	L/cm^3	- -	
				CF2	Conversion Factor 2	0.001	mg/µg	- -	

TABLE 3-4.8.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Surface Water
Exposure Medium: Baseflow Surface Water

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Dermal (cont.)	Recreational User (cont.)	Young Child	SW-05 through SW-09	CW	Chemical Concentration in Water	see Table 3-3.8.RME	µg/L	see Table 3-3.8.RME	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm^2-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	2800	cm^2	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	$\frac{DA \times SA \times EV \times EF \times ED}{BW \times AT}$
				ET	Event Time	1	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	events/day	Prof. Judgement	
				EF	Exposure Frequency	26, 52, 78, or 104	days/year	assumption	Inorganics:
				ED	Exposure Duration	6	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	15	kg	USEPA, 1994b	
				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)	2190	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	L/cm^3	- -	
				CF2	Conversion Factor 2	0.001	mg/µg	- -	
			SW-10 (Swimming)	CW	Chemical Concentration in Water	see Table 3-3.8.RME	µg/L	see Table 3-3.8.RME	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm^2-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	6600	cm^2	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	$\frac{DA \times SA \times EV \times EF \times ED}{BW \times AT}$
				ET	Event Time	1	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	event/day	Prof. Judgement	
				EF	Exposure Frequency	39	days/year	assumption	Inorganics:
				ED	Exposure Duration	6	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	15	kg	USEPA, 1994b	
				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)	2190	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	L/cm^3	- -	
				CF2	Conversion Factor 2	0.001	mg/µg	- -	

TABLE 3-4.8.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Surface Water
Exposure Medium: Baseflow Surface Water

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Ingestion	Recreational User	Adult	SW-10 (Swimming)	CW	Chemical Concentration in Water	see Table 3-3.8.RME	µg/L	see Table 3-3.8.RME	Chronic Daily Intake (CDI) (mg/kg-day) = $\frac{CW \times IR \times ET \times EF \times ED \times CF1 \times CF2}{BW \times AT}$
				IR	Ingestion Rate of Water	50	mL/hr	USEPA, 1989	
				ET	Exposure Time	1	hrs/day	Prof. Judgement	
				EF	Exposure Frequency	39	days/year	assumption	
				ED	Exposure Duration	24	years	USEPA, 1994b	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	8,760	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	mg/µg	- -	
				CF2	Conversion Factor 2	0.001	L/mL	- -	
		Young Child	SW-10 (Swimming)	CW	Chemical Concentration in Water	see Table 3-3.8.RME	µg/L	see Table 3-3.8.RME	Chronic Daily Intake (CDI) (mg/kg-day) = $\frac{CW \times IR \times ET \times EF \times ED \times CF1 \times CF2}{BW \times AT}$
				IR	Ingestion Rate of Water	50	mL/hr	USEPA, 1989	
				ET	Exposure Time	1	hrs/day	Prof. Judgement	
				EF	Exposure Frequency	39	days/year	assumption	
				ED	Exposure Duration	6	years	USEPA, 1994b	
				BW	Body Weight	15	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,190	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	mg/µg	- -	
				CF2	Conversion Factor 2	0.001	L/mL	- -	

Adult SA term assumes exposure to face, forearms, hands, and lower legs.

Young child SA term assumes exposure to face, forearms, hands, lower legs, and feet.

TABLE 3-4.8.CT
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Surface Water
Exposure Medium: Baseflow 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	Adult	SW-05 through SW-09	CW	Chemical Concentration in Water	see Table 3-3.8.CT	µg/L	see Table 3-3.8.CT	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm^2-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	5700	cm^2	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	$\frac{DA \times SA \times EV \times EF \times ED}{BW \times AT}$
				ET	Event Time	0.5	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	events/day	Prof. Judgement	
				EF	Exposure Frequency	26 or 78	days/year	assumption	Inorganics:
				ED	Exposure Duration	7	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	70	kg	USEPA, 1994b	
				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)	2555	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	L/cm^3	- -	
				CF2	Conversion Factor 2	0.001	mg/µg	- -	
			SW-10 (Swimming)	CW	Chemical Concentration in Water	see Table 3-3.8.CT	µg/L	see Table 3-3.8.CT	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm^2-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	18,000	cm^2	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	$\frac{DA \times SA \times EV \times EF \times ED}{BW \times AT}$
				ET	Event Time	0.5	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	event/day	Prof. Judgement	
				EF	Exposure Frequency	5	days/year	assumption	Inorganics:
				ED	Exposure Duration	7	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	70	kg	USEPA, 1994b	
				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)	2555	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	L/cm^3	- -	
				CF2	Conversion Factor 2	0.001	mg/µg	- -	

TABLE 3-4.8.CT
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Surface Water
Exposure Medium: Baseflow Surface Water

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Dermal (cont.)	Recreational User (cont.)	Young Child	SW-05 through SW-09	CW	Chemical Concentration in Water	see Table 3-3.8.CT	µg/L	see Table 3-3.8.CT	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm^2-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	2,800	cm^2	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	$\frac{DA \times SA \times EV \times EF \times ED}{BW \times AT}$
				ET	Event Time	0.5	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	events/day	Prof. Judgement	
				EF	Exposure Frequency	26 or 78	days/year	assumption	Inorganics:
				ED	Exposure Duration	2	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	15	kg	USEPA, 1994b	
				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/µg	- -	
			SW-10 (Swimming)	CW	Chemical Concentration in Water	see Table 3-3.8.CT	µg/L	see Table 3-3.8.CT	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm^2-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	6,600	cm^2	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	$\frac{DA \times SA \times EV \times EF \times ED}{BW \times AT}$
				ET	Event Time	0.5	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	event/day	Prof. Judgement	
				EF	Exposure Frequency	5	days/year	assumption	Inorganics:
				ED	Exposure Duration	2	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	15	kg	USEPA, 1994b	
				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/µg	- -	

TABLE 3-4.8.CT
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Surface Water
Exposure Medium: Baseflow Surface Water

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Ingestion	Recreational User	Adult	SW-10 (Swimming)	CW	Chemical Concentration in Water	see Table 3-3.8.CT	µg/L	see Table 3-3.8.CT	Chronic Daily Intake (CDI) (mg/kg-day) = $\frac{CW \times IR \times ET \times EF \times ED \times CF1 \times CF2}{BW \times AT}$
				IR	Ingestion Rate of Water	50	mL/hr	USEPA, 1989	
				ET	Exposure Time	0.5	hrs/day	Prof. Judgement	
				EF	Exposure Frequency	5	days/year	assumption	
				ED	Exposure Duration	7	years	USEPA, 1994b	
				BW	Body Weight	70	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	2,555	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	mg/µg	- -	
				CF2	Conversion Factor 2	0.001	L/mL	- -	
		Young Child	SW-10 (Swimming)	CW	Chemical Concentration in Water	see Table 3-3.8.CT	µg/L	see Table 3-3.8.CT	Chronic Daily Intake (CDI) (mg/kg-day) = $\frac{CW \times IR \times ET \times EF \times ED \times CF1 \times CF2}{BW \times AT}$
				IR	Ingestion Rate of Water	50	mL/hr	USEPA, 1989	
				ET	Exposure Time	0.5	hrs/day	Prof. Judgement	
				EF	Exposure Frequency	5	days/year	assumption	
				ED	Exposure Duration	2	years	USEPA, 1994b	
				BW	Body Weight	15	kg	USEPA, 1994b	
				AT-C	Averaging Time (Cancer)	25,550	days	USEPA, 1989	
				AT-N	Averaging Time (Non-Cancer)	730	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	mg/µg	- -	
				CF2	Conversion Factor 2	0.001	L/mL	- -	

Adult SA term assumes exposure to face, forearms, hands, and lower legs.

Young child SA term assumes exposure to face, forearms, hands, lower legs, and feet.

TABLE 3-4.9.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Surface Water
Exposure Medium: Storm Event Surface Water

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Dermal	Area Resident	Adult	SW-05 through SW-10	CW	Chemical Concentration in Water	see Table 3-3.8.RME	µg/L	see Table 3-3.8.RME	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm^2-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	5700	cm^2	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	$\frac{DA \times SA \times EV \times EF \times ED}{BW \times AT}$
				ET	Event Time	1	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	events/day	Prof. Judgement	
				EF	Exposure Frequency	42	days/year	assumption	Inorganics:
				ED	Exposure Duration	24	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	70	kg	USEPA, 1994b	
				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)	8760	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	L/cm^3	- -	
				CF2	Conversion Factor 2	0.001	mg/µg	- -	
		Young Child	SW-05 through SW-10	CW	Chemical Concentration in Water	see Table 3-3.8.RME	µg/L	see Table 3-3.8.RME	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm^2-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	2800	cm^2	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	$\frac{DA \times SA \times EV \times EF \times ED}{BW \times AT}$
				ET	Event Time	1	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	events/day	Prof. Judgement	
				EF	Exposure Frequency	42	days/year	assumption	Inorganics:
				ED	Exposure Duration	6	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	15	kg	USEPA, 1994b	
				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)	2190	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	L/cm^3	- -	
				CF2	Conversion Factor 2	0.001	mg/µg	- -	

Adult SA term assumes exposure to face, forearms, hands, and lower legs.

Young child SA term assumes exposure to face, forearms, hands, lower legs, and feet.

TABLE 3-4.9.CT
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Medium: Surface Water
Exposure Medium: Storm Event Surface Water

Exposure Route	Receptor Population	Receptor Age	Exposure Point	Parameter Code	Parameter Definition	Value	Units	Rationale/ Reference	Intake Equation/ Model Name
Dermal	Area Resident	Adult	SW-05 through SW-10	CW	Chemical Concentration in Water	see Table 3-3.8.CT	µg/L	see Table 3-3.8.CT	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm^2-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	5700	cm^2	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	$\frac{DA \times SA \times EV \times EF \times ED}{BW \times AT}$
				ET	Event Time	0.5	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	events/day	Prof. Judgement	
				EF	Exposure Frequency	21	days/year	assumption	Inorganics:
				ED	Exposure Duration	7	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	70	kg	USEPA, 1994b	
				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)	2555	days	USEPA, 1989	
				CF1	Conversion Factor 1	0.001	L/cm^3	- -	
				CF2	Conversion Factor 2	0.001	mg/µg	- -	
		Young Child	SW-05 through SW-10	CW	Chemical Concentration in Water	see Table 3-3.8.CT	µg/L	see Table 3-3.8.CT	Organics:
				DA	Dose Absorbed per Unit Area per Event	see Appendix C.7	mg/cm^2-event	USEPA, 2004d	Chronic Daily Intake (CDI) (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	2,800	cm^2	USEPA, 2004d	
				PC	Permeability Constant	chemical specific	cm/hr	USEPA, 2004d	$\frac{DA \times SA \times EV \times EF \times ED}{BW \times AT}$
				ET	Event Time	0.5	hrs/event	Prof. Judgement	
				EV	Event Frequency	1	events/day	Prof. Judgement	
				EF	Exposure Frequency	21	days/year	assumption	Inorganics:
				ED	Exposure Duration	2	years	USEPA, 1994b	CDI (mg/kg-day) =
				BW	Body Weight	15	kg	USEPA, 1994b	
				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/µg	- -	

Adult SA term assumes exposure to face, forearms, hands, and lower legs.

Young child SA term assumes exposure to face, forearms, hands, lower legs, and feet.

TABLE 3-4.10.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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 (SC05 through SC13)	CS	Chemical Concentration in Sediment	see Table 3-3.9.RME	mg/kg	see Table 3-3.9.RME	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Sediment	200	mg/day	USEPA, 1997a	$\frac{CS \times IR \times FI \times EF \times ED \times CF}{BW \times AT}$
				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 (SC05 through SC13)	CS	Chemical Concentration in Sediment	see Table 3-3.9.RME	mg/kg	see Table 3-3.9.RME	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	3,300	cm^2	USEPA, 2004d	$\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004d	
				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	- -	

Adult SA term assumes exposure to face, forearms, hands, and lower legs.

Adult AF term is geometric mean value for adult gardeners.

TABLE 3-4.10.CT
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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 (SC05 through SC13)	CS	Chemical Concentration in Sediment	see Table 3-3.9.CT	mg/kg	see Table 3-3.9.CT	Chronic Daily Intake (CDI) (mg/kg-day) =
				IR	Ingestion Rate of Sediment	200	mg/day	USEPA, 1997a	$\frac{CS \times IR \times FI \times EF \times ED \times CF}{BW \times AT}$
				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 (SC05 through SC13)	CS	Chemical Concentration in Sediment	see Table 3-3.9.CT	mg/kg	see Table 3-3.9.CT	CDI (mg/kg-day) =
				SA	Skin Surface Area Available for Contact	3,300	cm^2	USEPA, 2004d	$\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004d	
				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	--	

Adult SA term assumes exposure to face, forearms, hands, and lower legs.

Adult AF term is geometric mean value for adult gardeners.

TABLE 3-4.11.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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	Area Resident	Adult	Adjacent Residences to Stations 07/DP, AJRW, WS/WSS, KF, and CB-05	CS	Chemical Concentration in Soil	see Table 3-3.4.RME	mg/kg	see Table 3-3.4.RME	Chronic Daily Intake (CDI) (mg/kg-day) = CS x IR x FI x EF x ED x CF / BW x AT
				IR	Ingestion Rate of Soil	100	mg/day	USEPA, 1997a	
				FI	Fraction Ingested	1	unitless	Prof. Judgement	
				EF	Exposure Frequency	150	days/year	USEPA, 1994b	
				ED	Exposure Duration	24	years	USEPA, 1994b	
				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	
				CF	Conversion Factor	0.000001	kg/mg	--	
		Young Child	Adjacent Residences to Stations 07/DP, AJRW, WS/WSS, KF, and CB-05	CS	Chemical Concentration in Soil	see Table 3-3.4.RME	mg/kg	see Table 3-3.4.RME	Chronic Daily Intake (CDI) (mg/kg-day) = CS x IR x FI x EF x ED x CF / BW x AT
				IR	Ingestion Rate of Soil	200	mg/day	USEPA, 1997a	
				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 3-4.11.RME
VALUES USED FOR DAILY INTAKE CALCULATIONS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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
Dermal	Area Resident	Adult	Adjacent Residences to Stations 07/DP, AJRW, WS/WSS, KF, and CB-05	CS	Chemical Concentration in Soil	see Table 3-3.4.RME	mg/kg	see Table 3-3.4.RME	CDI (mg/kg-day) = $\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				SA	Skin Surface Area Available for Contact	5,700	cm^2	USEPA, 2004d	
				AF	Skin Adherence Factor	0.07	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	150	days/year	USEPA, 1994b	
				ED	Exposure Duration	24	years	USEPA, 1994b	
				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)	8,760	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	- -	
		Young Child	Adjacent Residences to Stations 07/DP, AJRW, WS/WSS, KF, and CB-05	CS	Chemical Concentration in Soil	see Table 3-3.4.RME	mg/kg	see Table 3-3.4.RME	CDI (mg/kg-day) = $\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				SA	Skin Surface Area Available for Contact	2,800	cm^2	USEPA, 2004d	
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	150	days/year	USEPA, 1994b	
				ED	Exposure Duration	6	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	- -	- -	
				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	- -	

Adult SA term assumes exposure to face, forearms, hands, and lower legs.

Young child SA term assumes exposure to face, forearms, hands, lower legs, and feet.

Adult AF term is geometric mean value for adult gardeners.

Young child AF term is geometric mean value for children playing in wet soil.

TABLE 3-4.11.CT
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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	Area Resident	Adult	Adjacent Residences to Stations 07/DP, AJRW, WS/WSS, KF, and CB-05	CS	Chemical Concentration in Soil	see Table 3-3.4.CT	mg/kg	see Table 3-3.4.CT	Chronic Daily Intake (CDI) (mg/kg-day) =
				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	1	unitless	Prof. Judgement	
				EF	Exposure Frequency	150	days/year	USEPA, 1994b	
				ED	Exposure Duration	7	years	USEPA, 1994b	
				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	
				CF	Conversion Factor	0.000001	kg/mg	- -	
		Young Child	Adjacent Residences to Stations 07/DP, AJRW, WS/WSS, KF, and CB-05	CS	Chemical Concentration in Soil	see Table 3-3.4.CT	mg/kg	see Table 3-3.4.CT	Chronic Daily Intake (CDI) (mg/kg-day) =
				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	- -	

TABLE 3-4.11.CT
VALUES USED FOR DAILY INTAKE CALCULATIONS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/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
Dermal	Area Resident	Adult	Adjacent Residences to Stations 07/DP, AJRW, WS/WSS, KF, and CB-05	CS	Chemical Concentration in Soil	see Table 3-3.4.CT	mg/kg	see Table 3-3.4.CT	CDI (mg/kg-day) = $\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				SA	Skin Surface Area Available for Contact	5,700	cm^2	USEPA, 2004d	
				AF	Skin Adherence Factor	0.07	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	150	days/year	USEPA, 1994b	
				ED	Exposure Duration	7	years	USEPA, 1994b	
				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)	2,555	days	USEPA, 1989	
				CF	Conversion Factor	0.000001	kg/mg	--	
		Young Child	Adjacent Residences to Stations 07/DP, AJRW, WS/WSS, KF, and CB-05	CS	Chemical Concentration in Soil	see Table 3-3.4.CT	mg/kg	see Table 3-3.4.CT	CDI (mg/kg-day) = $\frac{CS \times SA \times AF \times EF \times ED \times DAF \times CF}{BW \times AT}$
				SA	Skin Surface Area Available for Contact	2,800	cm^2	USEPA, 2004d	
				AF	Skin Adherence Factor	0.2	mg/cm^2-day	USEPA, 2004d	
				EF	Exposure Frequency	150	days/year	USEPA, 1994b	
				ED	Exposure Duration	2	years	USEPA, 1994b	
				DAF	Dermal Absorption Factor	chemical specific	--	--	
				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	--	

Adult SA term assumes exposure to face, forearms, hands, and lower legs.

Young child SA term assumes exposure to face, forearms, hands, lower legs, and feet.

Adult AF term is geometric mean value for adult gardeners.

Young child AF term is geometric mean value for children playing in wet soil.

TABLE 3-5.1
NON-CANCER TOXICITY DATA -- ORAL/DERMAL
WELLS G&H SUPERFUND SITE OU3

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)
Chloroform	Chronic	1E-02	mg/kg-day	(4)	1E-02	mg/kg-day	Liver	1000	IRIS	08/01/04
Tetrachloroethene	Chronic	1E-02	mg/kg-day	(4)	1E-02	mg/kg-day	Liver	1000	IRIS	08/01/04
Trichloroethene	Chronic	3E-04	mg/kg-day	(4)	3E-04	mg/kg-day	Liver	3000	NCEA	08/01/04
Vinyl chloride	Chronic	3E-03	mg/kg-day	(4)	3E-03	mg/kg-day	Liver	30	IRIS	08/01/04
Benzo(a)anthracene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzo(a)pyrene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzo(b)fluoranthene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzo(k)fluoranthene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dibenz(a,h)anthracene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Indeno(1,2,3-cd)pyrene	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Phenanthrene [3]	Chronic	2E-02	mg/kg-day	(4)	2E-02	mg/kg-day	General Toxicity	3000	IRIS	08/01/04
4,4'-DDD	Chronic	2E-03	mg/kg-day	(4)	2E-03	mg/kg-day	Immune System	300	NCEA	08/01/04
4,4'-DDE	Chronic	3E-04	mg/kg-day	(4)	3E-04	mg/kg-day	Developmental	3000	NCEA	08/01/04
4,4'-DDT	Chronic	5E-04	mg/kg-day	(4)	5E-04	mg/kg-day	Liver	100	IRIS	08/01/04
Aldrin	Chronic	3E-05	mg/kg-day	(4)	3E-05	mg/kg-day	Liver	1000	IRIS	08/01/04
alpha-Chlordane	Chronic	5E-04	mg/kg-day	(4)	5E-04	mg/kg-day	Liver	300	IRIS	08/01/04
Aroclor 1248 [3]	Chronic	2E-05	mg/kg-day	(4)	2E-05	mg/kg-day	Immune System	300	IRIS	08/01/04
Aroclor 1254	Chronic	2E-05	mg/kg-day	(4)	2E-05	mg/kg-day	Immune System	300	IRIS	08/01/04
Aroclor 1260 [3]	Chronic	2E-05	mg/kg-day	(4)	2E-05	mg/kg-day	Immune System	300	IRIS	08/01/04
delta-BHC [3]	Chronic	3E-04	mg/kg-day	(4)	3E-04	mg/kg-day	Liver/Kidney	1000	IRIS	08/01/04
Dieldrin	Chronic	5E-05	mg/kg-day	(4)	5E-05	mg/kg-day	Liver	100	IRIS	08/01/04
Heptachlor epoxide	Chronic	1.3E-05	mg/kg-day	(4)	1.3E-05	mg/kg-day	Liver	1000	IRIS	08/01/04
Antimony	Chronic	4E-04	mg/kg-day	0.15	6.0E-05	mg/kg-day	Blood	1000	IRIS	08/01/04
Arsenic [6]	Chronic	3E-04	mg/kg-day	(4)	3E-04	mg/kg-day	Skin	3	IRIS	08/01/04
Barium	Chronic	7E-02	mg/kg-day	0.07	4.9E-03	mg/kg-day	Cardiovascular	3	IRIS	08/01/04
Cadmium (food)	Chronic	1E-03	mg/kg-day	0.025	2.5E-05	mg/kg-day	Kidney	10	IRIS	08/01/04
Chromium (III)	Chronic	1.5E+00	mg/kg-day	0.013	2.0E-02	mg/kg-day	General Toxicity	1000	IRIS	08/01/04
Chromium (VI)	Chronic	3E-03	mg/kg-day	0.025	7.5E-05	mg/kg-day	Gastrointestinal System	300	IRIS	08/01/04

TABLE 3-5.1
NON-CANCER TOXICITY DATA -- ORAL/DERMAL
WELLS G&H SUPERFUND SITE OU3

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)
Copper	Chronic	3E-02	mg/kg-day	(4)	3E-02	mg/kg-day	Kidney	1000	NCEA	08/01/04
Lead [7]										
Manganese	Chronic	7E-02	mg/kg-day	0.04	2.8E-03	mg/kg-day	Nervous System	1	IRIS	08/01/04
Mercury (inorganic)	Chronic	3E-04	mg/kg-day	0.07	2.1E-05	mg/kg-day	Immune System	1000	IRIS	08/01/04
Mecury (organic)	Chronic	1E-04	mg/kg-day	(4)	1E-04	mg/kg-day	Nervous System	10	IRIS	08/01/04
Nickel	Chronic	2E-02	mg/kg-day	0.04	8.0E-04	mg/kg-day	General Toxicity	300	IRIS	08/01/04
Selenium	Chronic	5E-03	mg/kg-day	(4)	5E-03	mg/kg-day	Liver	3	IRIS	08/01/04
Thallium	Chronic	8E-05	mg/kg-day	(4)	8E-05	mg/kg-day	Blood	3000	IRIS	08/01/04
Vanadium	Chronic	1E-03	mg/kg-day	0.026	2.6E-05	mg/kg-day	Kidney	300	NCEA	08/01/04
Zinc	Chronic	3E-01	mg/kg-day	(4)	3E-01	mg/kg-day	Blood	3	IRIS	08/01/04

TABLE 3-5.1

NON-CANCER TOXICITY DATA -- ORAL/DERMAL

WELLS G&H SUPERFUND SITE OU3

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)
Antimony	Subchronic	4E-04	mg/kg-day	0.15	6.0E-05	mg/kg-day	Blood	1000	IRIS	08/01/04
Arsenic [6]	Subchronic	3E-04	mg/kg-day	(4)	3E-04	mg/kg-day	Skin	3	IRIS	08/01/04
Cadmium (food)	Subchronic	1E-03	mg/kg-day	0.025	2.5E-05	mg/kg-day	Kidney	10	IRIS	08/01/04
Copper	Subchronic	3E-01	mg/kg-day	(4)	3E-01	mg/kg-day	Kidney	100	NCEA	08/01/04
Lead [7]										
Manganese	Subchronic	7E-02	mg/kg-day	0.04	2.8E-03	mg/kg-day	Nervous System	1	IRIS	08/01/04
Mecury (organic)	Subchronic	1E-04	mg/kg-day	(4)	1E-04	mg/kg-day	Nervous System	10	IRIS	08/01/04
Vanadium	Subchronic	1E-02	mg/kg-day	0.026	2.6E-04	mg/kg-day	Kidney	30	NCEA	08/01/04
Zinc	Subchronic	3E-01	mg/kg-day	(4)	3E-01	mg/kg-day	Blood	3	IRIS	08/01/04

(1) All oral absorption efficiencies from USEPA, 2001b, except copper (from ASTDR, 2002).

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

(3) RfD for Aroclor 1254 used as a surrogate for Aroclor 1248 and Aroclor 1260.
RfD for gamma-BHC used as a surrogate for delta-BHC.
RfD for managanese is 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 thallium is based on thallium sulfate.
RfD for chlordane used as a surrogate for alpha-chlordane.
RfD for mercury (inorganic) based on mercuric chloride; for mercury (organic), based on methylmercury.
RfD for naphthalene used as a surrogate for phenanthrene.

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

(5) Permeability constants (Kp) used for surface water absorption calculations: 1E-03 cm/hr for arsenic, cadmium, manganese, and mercury; 2E-03 cm/hr for chromium (USEPA, 2001b); for organics, see Appendix C.7.

(6) Used for all media and exposures except oral exposures to sediment (see Table 3-5.3).

(7) See Appendix C.10 for lead model calculations.

IRIS = Integrated Risk Information System

HEAST = Health Effects Assessment Summary Tables

N/A = Not Applicable

NCEA = National Center for Environmental Assessment

TABLE 3-5.2

NON-CANCER TOXICITY DATA -- INHALATION

WELLS G&H SUPERFUND SITE OU3

Chemical of Potential Concern	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)
NOT APPLICABLE									

TABLE 3-5.3

NON-CANCER TOXICITY DATA -- SPECIAL CASE CHEMICALS

WELLS G&H SUPERFUND SITE OU3

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	08/01/04

RfD (adjusted) = RfD (IRIS) / RBA

IRIS = Integrated Risk Information System

RBA = Relative Bioavailability = 0.51 (site-specific; see Appendix C.9)

TABLE 3-6.1
CANCER TOXICITY DATA -- ORAL/DERMAL
WELLS G&H SUPERFUND SITE OU3

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	Units		Source(s)	Date(s) (MM/DD/YYYY)
Chloroform	N/A	N/A	N/A	N/A	N/A	B2	IRIS	08/01/04
Tetrachloroethene	5.4E-01	(mg/kg-day)$^{-1}$	(1)	5.4E-01	(mg/kg-day)$^{-1}$	B2	CalEPA	08/01/04
Trichloroethene	4.0E-01	(mg/kg-day)$^{-1}$	(1)	4.0E-01	(mg/kg-day)$^{-1}$	C-B2	NCEA	08/01/04
Vinyl chloride	1.5E+00	(mg/kg-day)$^{-1}$	(1)	1.5E+00	(mg/kg-day)$^{-1}$	C	IRIS	08/01/04
Benzo(a)anthracene	7.3E-01	(mg/kg-day)$^{-1}$	(1)	7.3E-01	(mg/kg-day)$^{-1}$	B2	IRIS	08/01/04
Benzo(a)pyrene	7.3E+00	(mg/kg-day)$^{-1}$	(1)	7.3E+00	(mg/kg-day)$^{-1}$	B2	IRIS	08/01/04
Benzo(b)fluoranthene	7.3E-01	(mg/kg-day)$^{-1}$	(1)	7.3E-01	(mg/kg-day)$^{-1}$	B2	IRIS	08/01/04
Benzo(k)fluoranthene	7.3E-02	(mg/kg-day)$^{-1}$	(1)	7.3E-02	(mg/kg-day)$^{-1}$	B2	IRIS	08/01/04
Dibenz(a,h)anthracene	7.3E+00	(mg/kg-day)$^{-1}$	(1)	7.3E+00	(mg/kg-day)$^{-1}$	B2	IRIS	08/01/04
Indeno(1,2,3-cd)pyrene	7.3E-01	(mg/kg-day)$^{-1}$	(1)	7.3E-01	(mg/kg-day)$^{-1}$	B2	IRIS	08/01/04
Phenanthrene	N/A	N/A	N/A	N/A	N/A	D	IRIS	08/01/04
4,4'-DDD	2.4E-01	(mg/kg-day)$^{-1}$	(1)	2.4E-01	(mg/kg-day)$^{-1}$	B2	IRIS	08/01/04
4,4'-DDE	3.4E-01	(mg/kg-day)$^{-1}$	(1)	3.4E-01	(mg/kg-day)$^{-1}$	B2	IRIS	08/01/04
4,4'-DDT	3.4E-01	(mg/kg-day)$^{-1}$	(1)	3.4E-01	(mg/kg-day)$^{-1}$	B2	IRIS	08/01/04
Aldrin	1.7E+01	(mg/kg-day)$^{-1}$	(1)	1.7E+01	(mg/kg-day)$^{-1}$	B2	IRIS	08/01/04
alpha-Chlordane	3.5E-01	(mg/kg-day)$^{-1}$	(1)	3.5E-01	(mg/kg-day)$^{-1}$	B2	IRIS	08/01/04
Aroclor 1248	2.0E+00	(mg/kg-day)$^{-1}$	(1)	2.0E+00	(mg/kg-day)$^{-1}$	B2	IRIS	08/01/04
Aroclor 1254	2.0E+00	(mg/kg-day)$^{-1}$	(1)	2.0E+00	(mg/kg-day)$^{-1}$	B2	IRIS	08/01/04
Aroclor 1260	2.0E+00	(mg/kg-day)$^{-1}$	(1)	2.0E+00	(mg/kg-day)$^{-1}$	B2	IRIS	08/01/04
delta-BHC	N/A	N/A	(1)	N/A	N/A	D	IRIS	08/01/04
Dieldrin	1.6E+01	(mg/kg-day)$^{-1}$	(1)	1.6E+01	(mg/kg-day)$^{-1}$	B2	IRIS	08/01/04
Heptachlor epoxide	9.1E+00	(mg/kg-day)$^{-1}$	(1)	9.1E+00	(mg/kg-day)$^{-1}$	B2	IRIS	08/01/04

TABLE 3-6.1
CANCER TOXICITY DATA -- ORAL/DERMAL
WELLS G&H SUPERFUND SITE OU3

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	Units		Source(s)	Date(s) (MM/DD/YYYY)
Antimony	N/A	N/A	N/A	N/A	N/A	D	IRIS	08/01/04
Arsenic [3]	1.5E+00	$(mg/kg\text{-}day)^{-1}$	(1)	1.5E+00	$(mg/kg\text{-}day)^{-1}$	A	IRIS	08/01/04
Barium	N/A	N/A	N/A	N/A	N/A	D	IRIS	08/01/04
Cadmium	N/A	N/A	N/A	N/A	N/A	D	IRIS	08/01/04
Chromium (III)	N/A	N/A	N/A	N/A	N/A	D	IRIS	08/01/04
Chromium (VI)	N/A	N/A	N/A	N/A	N/A	D	IRIS	08/01/04
Copper	N/A	N/A	N/A	N/A	N/A	D	IRIS	08/01/04
Lead [4]								
Manganese	N/A	N/A	N/A	N/A	N/A	D	IRIS	08/01/04
Mercury (inorganic)	N/A	N/A	N/A	N/A	N/A	C	IRIS	08/01/04
Mercury (organic)	N/A	N/A	N/A	N/A	N/A	C	IRIS	08/01/04
Nickel	N/A	N/A	N/A	N/A	N/A	D	IRIS	08/01/04
Selenium	N/A	N/A	N/A	N/A	N/A	D	IRIS	08/01/04
Thallium	N/A	N/A	N/A	N/A	N/A	D	IRIS	08/01/04
Vanadium	N/A	N/A	N/A	N/A	N/A	D	IRIS	08/01/04
Zinc	N/A	N/A	N/A	N/A	N/A	D	IRIS	08/01/04

IRIS = Integrated Risk Information System
NCEA = National Center for Environmental Assessment
CalEPA = California Environmental Protection Agency
RME = Reasonable Maximum Exposure
CT = Central Tendency
N/A = Not Applicable
Slope factor for chlordane used as a surrogate for alpha-chlordane.
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.
For PCBs, the RME slope factor is presented. A slope factor of 1 $(mg/kg\text{-}day)^{-1}$ is used for CT risk estimates (USEPA, 2003a).
(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 3-6.3).
(4) See Appendix C.10 for lead model calculations.

TABLE 3-6.2

CANCER TOXICITY DATA -- INHALATION

WELLS G&H SUPERFUND SITE OU3

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)
NOT APPLICABLE							

TABLE 3-6.3

CANCER TOXICITY DATA -- SPECIAL CASE CHEMICALS

WELLS G&H SUPERFUND SITE OU3

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	08/01/04

SF (adjusted) = SF (IRIS) * RBA

IRIS = Integrated Risk Information System

RBA = Relative Bioavailability = 0.51 (site-specific; see Appendix C.9)

TABLE 3-6.4

CANCER TOXICITY DATA -- EXTERNAL (RADIATION)

WELLS G&H SUPERFUND SITE OU3

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

TABLE 3-7.1.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	Surface Water	Station NR (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	2.6E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	2.4E-09	7.6E-10	mg/kg-day	1.3E-05	mg/kg-day	5.8E-05
				Arsenic	5E+01	ug/L	9.2E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.4E-07	2.7E-07	mg/kg-day	3.0E-04	mg/kg-day	9.0E-04
				Cadmium	3E+00	ug/L	5.0E-09	mg/kg-day	N/A	N/A	N/A	1.5E-08	mg/kg-day	2.5E-05	mg/kg-day	5.8E-04
				Chromium VI	6E+01	ug/L	2.3E-07	mg/kg-day	N/A	N/A	N/A	6.8E-07	mg/kg-day	7.5E-05	mg/kg-day	9.1E-03
				Lead												
				Manganese	6E+02	ug/L	1.2E-06	mg/kg-day	N/A	N/A	N/A	3.4E-06	mg/kg-day	2.8E-03	mg/kg-day	1.2E-03
				Mercury	6E-01	ug/L	1.2E-09	mg/kg-day	N/A	N/A	N/A	3.5E-09	mg/kg-day	2.1E-05	mg/kg-day	1.7E-04
			Exp. Route Total								1E-07					1E-02
		Exposure Point Total									1E-07					1E-02
		Station 14 (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	2.6E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	2.4E-09	7.6E-10	mg/kg-day	1.3E-05	mg/kg-day	5.8E-05
				Arsenic	5E+01	ug/L	9.2E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.4E-07	2.7E-07	mg/kg-day	3.0E-04	mg/kg-day	9.0E-04
				Cadmium	3E+00	ug/L	5.0E-09	mg/kg-day	N/A	N/A	N/A	1.5E-08	mg/kg-day	2.5E-05	mg/kg-day	5.8E-04
				Chromium VI	6E+01	ug/L	2.3E-07	mg/kg-day	N/A	N/A	N/A	6.8E-07	mg/kg-day	7.5E-05	mg/kg-day	9.1E-03
				Lead												
				Manganese	6E+02	ug/L	1.2E-06	mg/kg-day	N/A	N/A	N/A	3.4E-06	mg/kg-day	2.8E-03	mg/kg-day	1.2E-03
				Mercury	6E-01	ug/L	1.2E-09	mg/kg-day	N/A	N/A	N/A	3.5E-09	mg/kg-day	2.1E-05	mg/kg-day	1.7E-04
			Exp. Route Total								1E-07					1E-02
		Exposure Point Total									1E-07					1E-02
		Station 22/11-22 (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	2.6E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	2.4E-09	7.6E-10	mg/kg-day	1.3E-05	mg/kg-day	5.8E-05
				Arsenic	5E+01	ug/L	9.2E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.4E-07	2.7E-07	mg/kg-day	3.0E-04	mg/kg-day	9.0E-04
				Cadmium	3E+00	ug/L	5.0E-09	mg/kg-day	N/A	N/A	N/A	1.5E-08	mg/kg-day	2.5E-05	mg/kg-day	5.8E-04
				Chromium VI	6E+01	ug/L	2.3E-07	mg/kg-day	N/A	N/A	N/A	6.8E-07	mg/kg-day	7.5E-05	mg/kg-day	9.1E-03
				Lead												
				Manganese	6E+02	ug/L	1.2E-06	mg/kg-day	N/A	N/A	N/A	3.4E-06	mg/kg-day	2.8E-03	mg/kg-day	1.2E-03
				Mercury	6E-01	ug/L	1.2E-09	mg/kg-day	N/A	N/A	N/A	3.5E-09	mg/kg-day	2.1E-05	mg/kg-day	1.7E-04
			Exp. Route Total								1E-07					1E-02
		Exposure Point Total									1E-07					1E-02

TABLE 3-7.1.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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 (cont.)	Surface Water (cont.)	Station WH (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	2.6E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	2.4E-09	7.6E-10	mg/kg-day	1.3E-05	mg/kg-day	5.8E-05
				Arsenic	5E+01	ug/L	9.2E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.4E-07	2.7E-07	mg/kg-day	3.0E-04	mg/kg-day	9.0E-04
				Cadmium	3E+00	ug/L	5.0E-09	mg/kg-day	N/A	N/A	N/A	1.5E-08	mg/kg-day	2.5E-05	mg/kg-day	5.8E-04
				Chromium VI	6E+01	ug/L	2.3E-07	mg/kg-day	N/A	N/A	N/A	6.8E-07	mg/kg-day	7.5E-05	mg/kg-day	9.1E-03
				Lead												
				Manganese	6E+02	ug/L	1.2E-06	mg/kg-day	N/A	N/A	N/A	3.4E-06	mg/kg-day	2.8E-03	mg/kg-day	1.2E-03
				Mercury	6E-01	ug/L	1.2E-09	mg/kg-day	N/A	N/A	N/A	3.5E-09	mg/kg-day	2.1E-05	mg/kg-day	1.7E-04
			Exp. Route Total								1E-07					1E-02
		Exposure Point Total									1E-07					1E-02
		Station WG (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	2.6E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	2.4E-09	7.6E-10	mg/kg-day	1.3E-05	mg/kg-day	5.8E-05
				Arsenic	5E+01	ug/L	9.2E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.4E-07	2.7E-07	mg/kg-day	3.0E-04	mg/kg-day	9.0E-04
				Cadmium	3E+00	ug/L	5.0E-09	mg/kg-day	N/A	N/A	N/A	1.5E-08	mg/kg-day	2.5E-05	mg/kg-day	5.8E-04
				Chromium VI	6E+01	ug/L	2.3E-07	mg/kg-day	N/A	N/A	N/A	6.8E-07	mg/kg-day	7.5E-05	mg/kg-day	9.1E-03
				Lead												
				Manganese	6E+02	ug/L	1.2E-06	mg/kg-day	N/A	N/A	N/A	3.4E-06	mg/kg-day	2.8E-03	mg/kg-day	1.2E-03
				Mercury	6E-01	ug/L	1.2E-09	mg/kg-day	N/A	N/A	N/A	3.5E-09	mg/kg-day	2.1E-05	mg/kg-day	1.7E-04
			Exp. Route Total								1E-07					1E-02
		Exposure Point Total									1E-07					1E-02
		Station WS/WSS (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	1.0E-09	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	9.4E-09	3.0E-09	mg/kg-day	1.3E-05	mg/kg-day	2.3E-04
				Arsenic	5E+01	ug/L	3.7E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.5E-07	1.1E-06	mg/kg-day	3.0E-04	mg/kg-day	3.6E-03
				Cadmium	3E+00	ug/L	2.0E-08	mg/kg-day	N/A	N/A	N/A	5.8E-08	mg/kg-day	2.5E-05	mg/kg-day	2.3E-03
				Chromium VI	6E+01	ug/L	9.4E-07	mg/kg-day	N/A	N/A	N/A	2.7E-06	mg/kg-day	7.5E-05	mg/kg-day	3.6E-02
				Lead												
				Manganese	6E+02	ug/L	4.6E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	2.8E-03	mg/kg-day	4.8E-03
				Mercury	6E-01	ug/L	4.8E-09	mg/kg-day	N/A	N/A	N/A	1.4E-08	mg/kg-day	2.1E-05	mg/kg-day	6.7E-04
			Exp. Route Total								6E-07					5E-02
		Exposure Point Total									6E-07					5E-02

TABLE 3-7.1.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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 (cont.)	Surface Water (cont.)	Station TT-30 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	1.0E-07	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	4.1E-08	3.0E-07	mg/kg-day	3.0E-04	mg/kg-day	9.8E-04
				Arsenic	2E+01	ug/L	3.9E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.9E-08	1.1E-07	mg/kg-day	3.0E-04	mg/kg-day	3.8E-04
				Cadmium	2E-01	ug/L	4.6E-10	mg/kg-day	N/A	N/A	N/A	1.3E-09	mg/kg-day	2.5E-05	mg/kg-day	5.3E-05
				Chromium VI	1E+01	ug/L	4.8E-08	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	7.5E-05	mg/kg-day	1.9E-03
				Lead												
				Manganese	8E+02	ug/L	1.5E-06	mg/kg-day	N/A	N/A	N/A	4.5E-06	mg/kg-day	2.8E-03	mg/kg-day	1.6E-03
				Mercury	1E-01	ug/L	2.9E-10	mg/kg-day	N/A	N/A	N/A	8.6E-10	mg/kg-day	2.1E-05	mg/kg-day	4.1E-05
			Exp. Route Total								1E-07					5E-03
		Exposure Point Total									1E-07					5E-03
		Station CB-01 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	4.1E-07	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.6E-07	1.2E-06	mg/kg-day	3.0E-04	mg/kg-day	3.9E-03
				Arsenic	2E+01	ug/L	1.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.4E-07	4.6E-07	mg/kg-day	3.0E-04	mg/kg-day	1.5E-03
				Cadmium	2E-01	ug/L	1.8E-09	mg/kg-day	N/A	N/A	N/A	5.3E-09	mg/kg-day	2.5E-05	mg/kg-day	2.1E-04
				Chromium VI	1E+01	ug/L	1.9E-07	mg/kg-day	N/A	N/A	N/A	5.6E-07	mg/kg-day	7.5E-05	mg/kg-day	7.5E-03
				Lead												
				Manganese	8E+02	ug/L	6.2E-06	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	2.8E-03	mg/kg-day	6.4E-03
				Mercury	1E-01	ug/L	1.2E-09	mg/kg-day	N/A	N/A	N/A	3.4E-09	mg/kg-day	2.1E-05	mg/kg-day	1.6E-04
			Exp. Route Total								4E-07					2E-02
		Exposure Point Total									4E-07					2E-02
		Station CB-02 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	4.1E-07	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.6E-07	1.2E-06	mg/kg-day	3.0E-04	mg/kg-day	3.9E-03
				Arsenic	2E+01	ug/L	1.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.4E-07	4.6E-07	mg/kg-day	3.0E-04	mg/kg-day	1.5E-03
				Cadmium	2E-01	ug/L	1.8E-09	mg/kg-day	N/A	N/A	N/A	5.3E-09	mg/kg-day	2.5E-05	mg/kg-day	2.1E-04
				Chromium VI	1E+01	ug/L	1.9E-07	mg/kg-day	N/A	N/A	N/A	5.6E-07	mg/kg-day	7.5E-05	mg/kg-day	7.5E-03
				Lead												
				Manganese	8E+02	ug/L	6.2E-06	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	2.8E-03	mg/kg-day	6.4E-03
				Mercury	1E-01	ug/L	1.2E-09	mg/kg-day	N/A	N/A	N/A	3.4E-09	mg/kg-day	2.1E-05	mg/kg-day	1.6E-04
			Exp. Route Total								4E-07					2E-02
		Exposure Point Total									4E-07					2E-02

TABLE 3-7.1.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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 (cont.)	Surface Water (cont.)	Station CB-03 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	4.1E-07	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.6E-07	1.2E-06	mg/kg-day	3.0E-04	mg/kg-day	3.9E-03
				Arsenic	2E+01	ug/L	1.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.4E-07	4.6E-07	mg/kg-day	3.0E-04	mg/kg-day	1.5E-03
				Cadmium	2E-01	ug/L	1.8E-09	mg/kg-day	N/A	N/A	N/A	5.3E-09	mg/kg-day	2.5E-05	mg/kg-day	2.1E-04
				Chromium VI	1E+01	ug/L	1.9E-07	mg/kg-day	N/A	N/A	N/A	5.6E-07	mg/kg-day	7.5E-05	mg/kg-day	7.5E-03
				Lead												
				Manganese	8E+02	ug/L	6.2E-06	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	2.8E-03	mg/kg-day	6.4E-03
				Mercury	1E-01	ug/L	1.2E-09	mg/kg-day	N/A	N/A	N/A	3.4E-09	mg/kg-day	2.1E-05	mg/kg-day	1.6E-04
			Exp. Route Total								4E-07					2E-02
		Exposure Point Total									4E-07					2E-02
		Station CB-04 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	4.1E-07	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.6E-07	1.2E-06	mg/kg-day	3.0E-04	mg/kg-day	3.9E-03
				Arsenic	2E+01	ug/L	1.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.4E-07	4.6E-07	mg/kg-day	3.0E-04	mg/kg-day	1.5E-03
				Cadmium	2E-01	ug/L	1.8E-09	mg/kg-day	N/A	N/A	N/A	5.3E-09	mg/kg-day	2.5E-05	mg/kg-day	2.1E-04
				Chromium VI	1E+01	ug/L	1.9E-07	mg/kg-day	N/A	N/A	N/A	5.6E-07	mg/kg-day	7.5E-05	mg/kg-day	7.5E-03
				Lead												
				Manganese	8E+02	ug/L	6.2E-06	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	2.8E-03	mg/kg-day	6.4E-03
				Mercury	1E-01	ug/L	1.2E-09	mg/kg-day	N/A	N/A	N/A	3.4E-09	mg/kg-day	2.1E-05	mg/kg-day	1.6E-04
			Exp. Route Total								4E-07					2E-02
		Exposure Point Total									4E-07					2E-02
		Station CB-06 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	4.1E-07	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.6E-07	1.2E-06	mg/kg-day	3.0E-04	mg/kg-day	3.9E-03
				Arsenic	2E+01	ug/L	1.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.4E-07	4.6E-07	mg/kg-day	3.0E-04	mg/kg-day	1.5E-03
				Cadmium	2E-01	ug/L	1.8E-09	mg/kg-day	N/A	N/A	N/A	5.3E-09	mg/kg-day	2.5E-05	mg/kg-day	2.1E-04
				Chromium VI	1E+01	ug/L	1.9E-07	mg/kg-day	N/A	N/A	N/A	5.6E-07	mg/kg-day	7.5E-05	mg/kg-day	7.5E-03
				Lead												
				Manganese	8E+02	ug/L	6.2E-06	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	2.8E-03	mg/kg-day	6.4E-03
				Mercury	1E-01	ug/L	1.2E-09	mg/kg-day	N/A	N/A	N/A	3.4E-09	mg/kg-day	2.1E-05	mg/kg-day	1.6E-04
			Exp. Route Total								4E-07					2E-02
		Exposure Point Total									4E-07					2E-02

TABLE 3-7.1.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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 (cont.)	Surface Water (cont.)	Station CB-07 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	1.0E-07	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	4.1E-08	3.0E-07	mg/kg-day	3.0E-04	mg/kg-day	9.8E-04
				Arsenic	2E+01	ug/L	3.9E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.9E-08	1.1E-07	mg/kg-day	3.0E-04	mg/kg-day	3.8E-04
				Cadmium	2E-01	ug/L	4.6E-10	mg/kg-day	N/A	N/A	N/A	1.3E-09	mg/kg-day	2.5E-05	mg/kg-day	5.3E-05
				Chromium VI	1E+01	ug/L	4.8E-08	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	7.5E-05	mg/kg-day	1.9E-03
				Lead												
				Manganese	8E+02	ug/L	1.5E-06	mg/kg-day	N/A	N/A	N/A	4.5E-06	mg/kg-day	2.8E-03	mg/kg-day	1.6E-03
				Mercury	1E-01	ug/L	2.9E-10	mg/kg-day	N/A	N/A	N/A	8.6E-10	mg/kg-day	2.1E-05	mg/kg-day	4.1E-05
			Exp. Route Total								1E-07					5E-03
		Exposure Point Total									1E-07					5E-03
		Station 16/TT-33 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	3.0E-07	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.2E-07	8.9E-07	mg/kg-day	3.0E-04	mg/kg-day	3.0E-03
				Arsenic	2E+01	ug/L	1.2E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.8E-07	3.4E-07	mg/kg-day	3.0E-04	mg/kg-day	1.1E-03
				Cadmium	2E-01	ug/L	1.4E-09	mg/kg-day	N/A	N/A	N/A	4.0E-09	mg/kg-day	2.5E-05	mg/kg-day	1.6E-04
				Chromium VI	1E+01	ug/L	1.4E-07	mg/kg-day	N/A	N/A	N/A	4.2E-07	mg/kg-day	7.5E-05	mg/kg-day	5.6E-03
				Lead												
				Manganese	8E+02	ug/L	4.6E-06	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	2.8E-03	mg/kg-day	4.8E-03
				Mercury	1E-01	ug/L	8.8E-10	mg/kg-day	N/A	N/A	N/A	2.6E-09	mg/kg-day	2.1E-05	mg/kg-day	1.2E-04
			Exp. Route Total								3E-07					1E-02
		Exposure Point Total									3E-07					1E-02
		Station 09 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	3.0E-07	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.2E-07	8.9E-07	mg/kg-day	3.0E-04	mg/kg-day	3.0E-03
				Arsenic	2E+01	ug/L	1.2E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.8E-07	3.4E-07	mg/kg-day	3.0E-04	mg/kg-day	1.1E-03
				Cadmium	2E-01	ug/L	1.4E-09	mg/kg-day	N/A	N/A	N/A	4.0E-09	mg/kg-day	2.5E-05	mg/kg-day	1.6E-04
				Chromium VI	1E+01	ug/L	1.4E-07	mg/kg-day	N/A	N/A	N/A	4.2E-07	mg/kg-day	7.5E-05	mg/kg-day	5.6E-03
				Lead												
				Manganese	8E+02	ug/L	4.6E-06	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	2.8E-03	mg/kg-day	4.8E-03
				Mercury	1E-01	ug/L	8.8E-10	mg/kg-day	N/A	N/A	N/A	2.6E-09	mg/kg-day	2.1E-05	mg/kg-day	1.2E-04
			Exp. Route Total								3E-07					1E-02
		Exposure Point Total									3E-07					1E-02

TABLE 3-7.1.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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 (cont.)	Surface Water (cont.)	Station DA (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	3.0E-07	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.2E-07	8.9E-07	mg/kg-day	3.0E-04	mg/kg-day	3.0E-03
				Arsenic	2E+01	ug/L	1.2E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.8E-07	3.4E-07	mg/kg-day	3.0E-04	mg/kg-day	1.1E-03
				Cadmium	2E-01	ug/L	1.4E-09	mg/kg-day	N/A	N/A	N/A	4.0E-09	mg/kg-day	2.5E-05	mg/kg-day	1.6E-04
				Chromium VI	1E+01	ug/L	1.4E-07	mg/kg-day	N/A	N/A	N/A	4.2E-07	mg/kg-day	7.5E-05	mg/kg-day	5.6E-03
				Lead												
				Manganese	8E+02	ug/L	4.6E-06	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	2.8E-03	mg/kg-day	4.8E-03
				Mercury	1E-01	ug/L	8.8E-10	mg/kg-day	N/A	N/A	N/A	2.6E-09	mg/kg-day	2.1E-05	mg/kg-day	1.2E-04
			Exp. Route Total								3E-07					1E-02
		Exposure Point Total									3E-07					1E-02
		Station AM (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	1.0E-07	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	4.1E-08	3.0E-07	mg/kg-day	3.0E-04	mg/kg-day	9.8E-04
				Arsenic	2E+01	ug/L	3.9E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.9E-08	1.1E-07	mg/kg-day	3.0E-04	mg/kg-day	3.8E-04
				Cadmium	2E-01	ug/L	4.6E-10	mg/kg-day	N/A	N/A	N/A	1.3E-09	mg/kg-day	2.5E-05	mg/kg-day	5.3E-05
				Chromium VI	1E+01	ug/L	4.8E-08	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	7.5E-05	mg/kg-day	1.9E-03
				Lead												
				Manganese	8E+02	ug/L	1.5E-06	mg/kg-day	N/A	N/A	N/A	4.5E-06	mg/kg-day	2.8E-03	mg/kg-day	1.6E-03
				Mercury	1E-01	ug/L	2.9E-10	mg/kg-day	N/A	N/A	N/A	8.6E-10	mg/kg-day	2.1E-05	mg/kg-day	4.1E-05
			Exp. Route Total								1E-07					5E-03
		Exposure Point Total									1E-07					5E-03
		Station KF (Lower Reach 2)	Dermal	Arsenic	7E+00	ug/L	4.1E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.1E-08	1.2E-07	mg/kg-day	3.0E-04	mg/kg-day	3.9E-04
				Chromium VI	2E+00	ug/L	2.6E-08	mg/kg-day	N/A	N/A	N/A	7.7E-08	mg/kg-day	7.5E-05	mg/kg-day	1.0E-03
				Manganese	4E+02	ug/L	2.1E-06	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								6E-08					4E-03
		Exposure Point Total									6E-08					4E-03
		Station 08 (Lower Reach 2)	Dermal	Arsenic	7E+00	ug/L	4.1E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.1E-08	1.2E-07	mg/kg-day	3.0E-04	mg/kg-day	3.9E-04
				Chromium VI	2E+00	ug/L	2.6E-08	mg/kg-day	N/A	N/A	N/A	7.7E-08	mg/kg-day	7.5E-05	mg/kg-day	1.0E-03
				Manganese	4E+02	ug/L	2.1E-06	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								6E-08					4E-03
		Exposure Point Total									6E-08					4E-03

TABLE 3-7.1.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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 (cont.)	Surface Water (cont.)	Station 07/DP (Reach 3)	Dermal	Chromium VI	3E+00	ug/L	3.7E-08	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	7.5E-05	mg/kg-day	1.4E-03
				Lead												
				Manganese	6E+02	ug/L	3.5E-06	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	2.8E-03	mg/kg-day	3.6E-03
				Mercury	2E-01	ug/L	1.3E-09	mg/kg-day	N/A	N/A	N/A	3.8E-09	mg/kg-day	2.1E-05	mg/kg-day	1.8E-04
			Exp. Route Total								N/A					5E-03
		Exposure Point Total									N/A					5E-03
		Station LP (Reach 3)	Dermal	Chromium VI	3E+00	ug/L	3.7E-08	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	7.5E-05	mg/kg-day	1.4E-03
				Lead												
				Manganese	6E+02	ug/L	3.5E-06	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	2.8E-03	mg/kg-day	3.6E-03
				Mercury	2E-01	ug/L	1.3E-09	mg/kg-day	N/A	N/A	N/A	3.8E-09	mg/kg-day	2.1E-05	mg/kg-day	1.8E-04
			Exp. Route Total								N/A					5E-03
		Exposure Point Total									N/A					5E-03
		Station AS (Reach 3)	Dermal	Chromium VI	3E+00	ug/L	1.2E-08	mg/kg-day	N/A	N/A	N/A	3.6E-08	mg/kg-day	7.5E-05	mg/kg-day	4.8E-04
				Lead												
				Manganese	6E+02	ug/L	1.2E-06	mg/kg-day	N/A	N/A	N/A	3.4E-06	mg/kg-day	2.8E-03	mg/kg-day	1.2E-03
				Mercury	2E-01	ug/L	4.4E-10	mg/kg-day	N/A	N/A	N/A	1.3E-09	mg/kg-day	2.1E-05	mg/kg-day	6.1E-05
			Exp. Route Total								N/A					2E-03
		Exposure Point Total									N/A					2E-03
		Station 06 (Reach 4)	Dermal	Chromium VI	4E+00	ug/L	5.1E-08	mg/kg-day	N/A	N/A	N/A	1.5E-07	mg/kg-day	7.5E-05	mg/kg-day	2.0E-03
				Lead												
				Manganese	5E+02	ug/L	3.0E-06	mg/kg-day	N/A	N/A	N/A	8.8E-06	mg/kg-day	2.8E-03	mg/kg-day	3.1E-03
			Exp. Route Total								N/A					5E-03
		Exposure Point Total									N/A					5E-03
		Station 05 (Reach 5)	Dermal	Chloroform	1E+00	ug/L	7.9E-08	mg/kg-day	N/A	N/A	N/A	2.3E-07	mg/kg-day	1.0E-02	mg/kg-day	2.3E-05
				Tetrachloroethene	2E+00	ug/L	1.0E-06	mg/kg-day	5.4E-01	(mg/kg-day)$^{-1}$	5.6E-07	3.0E-06	mg/kg-day	1.0E-02	mg/kg-day	3.0E-04
				Chromium VI	9E-01	ug/L	1.0E-08	mg/kg-day	N/A	N/A	N/A	3.0E-08	mg/kg-day	7.5E-05	mg/kg-day	3.9E-04
				Manganese	3E+02	ug/L	1.9E-06	mg/kg-day	N/A	N/A	N/A	5.6E-06	mg/kg-day	2.8E-03	mg/kg-day	2.0E-03
			Exp. Route Total								6E-07					3E-03
		Exposure Point Total									6E-07					3E-03

TABLE 3-7.1.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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 (cont.)	Surface Water (cont.)	Station 04 (Upper Reach 6)	Dermal	Arsenic	5E+00	ug/L	3.1E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.7E-08	9.0E-08	mg/kg-day	3.0E-04	mg/kg-day	3.0E-04
				Chromium VI	4E+00	ug/L	4.4E-08	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	7.5E-05	mg/kg-day	1.7E-03
				Lead												
				Manganese	3E+02	ug/L	1.9E-06	mg/kg-day	N/A	N/A	N/A	5.5E-06	mg/kg-day	2.8E-03	mg/kg-day	2.0E-03
				Mercury	7E-02	ug/L	4.1E-10	mg/kg-day	N/A	N/A	N/A	1.2E-09	mg/kg-day	2.1E-05	mg/kg-day	5.7E-05
			Exp. Route Total								5E-08					4E-03
		Exposure Point Total									5E-08					4E-03
		Station 03 (Upper Reach 6)	Dermal	Arsenic	5E+00	ug/L	3.1E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.7E-08	9.0E-08	mg/kg-day	3.0E-04	mg/kg-day	3.0E-04
				Chromium VI	4E+00	ug/L	4.4E-08	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	7.5E-05	mg/kg-day	1.7E-03
				Lead												
				Manganese	3E+02	ug/L	1.9E-06	mg/kg-day	N/A	N/A	N/A	5.5E-06	mg/kg-day	2.8E-03	mg/kg-day	2.0E-03
				Mercury	7E-02	ug/L	4.1E-10	mg/kg-day	N/A	N/A	N/A	1.2E-09	mg/kg-day	2.1E-05	mg/kg-day	5.7E-05
			Exp. Route Total								5E-08					4E-03
		Exposure Point Total									5E-08					4E-03
		Station 02 (Upper Reach 6)	Dermal	Arsenic	5E+00	ug/L	3.1E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.7E-08	9.0E-08	mg/kg-day	3.0E-04	mg/kg-day	3.0E-04
				Chromium VI	4E+00	ug/L	4.4E-08	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	7.5E-05	mg/kg-day	1.7E-03
				Lead												
				Manganese	3E+02	ug/L	1.9E-06	mg/kg-day	N/A	N/A	N/A	5.5E-06	mg/kg-day	2.8E-03	mg/kg-day	2.0E-03
				Mercury	7E-02	ug/L	4.1E-10	mg/kg-day	N/A	N/A	N/A	1.2E-09	mg/kg-day	2.1E-05	mg/kg-day	5.7E-05
			Exp. Route Total								5E-08					4E-03
		Exposure Point Total									5E-08					4E-03

TABLE 3-7.1.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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 (cont.)	Surface Water (cont.)	Station 01 (Lower Reach 6)	Ingestion													
				Arsenic	3E+00	ug/L	8.1E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.2E-07	2.4E-07	mg/kg-day	3.0E-04	mg/kg-day	7.9E-04
				Chromium VI	2E+00	ug/L	3.9E-08	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	3.0E-03	mg/kg-day	3.8E-05
				Lead												
				Manganese	7E+01	ug/L	1.9E-06	mg/kg-day	N/A	N/A	N/A	5.4E-06	mg/kg-day	7.0E-02	mg/kg-day	7.7E-05
				Mercury	4E-02	ug/L	1.0E-09	mg/kg-day	N/A	N/A	N/A	3.1E-09	mg/kg-day	3.0E-04	mg/kg-day	1.0E-05
			Exp. Route Total								1E-07					9E-04
			Dermal													
				Arsenic	3E+00	ug/L	2.9E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.4E-08	8.5E-08	mg/kg-day	3.0E-04	mg/kg-day	2.8E-04
				Chromium VI	2E+00	ug/L	2.8E-08	mg/kg-day	N/A	N/A	N/A	8.2E-08	mg/kg-day	7.5E-05	mg/kg-day	1.1E-03
				Lead												
				Manganese	7E+01	ug/L	6.7E-07	mg/kg-day	N/A	N/A	N/A	1.9E-06	mg/kg-day	2.8E-03	mg/kg-day	7.0E-04
				Mercury	4E-02	ug/L	3.8E-10	mg/kg-day	N/A	N/A	N/A	1.1E-09	mg/kg-day	2.1E-05	mg/kg-day	5.2E-05
			Exp. Route Total								4E-08					2E-03
		Exposure Point Total									2E-07					3E-03
	Exposure Medium Total										N/A					N/A
Sediment	Sediment	Station NR	Ingestion													
				Arsenic	2E+02	mg/kg	3.7E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.9E-06	1.1E-05	mg/kg-day	5.9E-04	mg/kg-day	1.8E-02
				Barium	6E+01	mg/kg	9.8E-07	mg/kg-day	N/A	N/A	N/A	2.9E-06	mg/kg-day	7.0E-02	mg/kg-day	4.1E-05
				Cadmium	2E+00	mg/kg	3.8E-08	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	1.0E-03	mg/kg-day	1.1E-04
				Chromium III	3E+02	mg/kg	4.4E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	1.5E+00	mg/kg-day	8.5E-06
				Copper	3E+02	mg/kg	5.3E-06	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	3.0E-02	mg/kg-day	5.2E-04
				Lead												
				Manganese	2E+02	mg/kg	4.3E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	7.0E-02	mg/kg-day	1.8E-04
				Mercury	4E+00	mg/kg	7.8E-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
				Nickel	1E+01	mg/kg	2.5E-07	mg/kg-day	N/A	N/A	N/A	7.1E-07	mg/kg-day	2.0E-02	mg/kg-day	3.6E-05
				Vanadium	3E+01	mg/kg	5.3E-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	5E+02	mg/kg	8.5E-06	mg/kg-day	N/A	N/A	N/A	2.5E-05	mg/kg-day	3.0E-01	mg/kg-day	8.2E-05
			Exp. Route Total								3E-06					2E-02
			Dermal													
				Arsenic	2E+02	mg/kg	8.9E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-06	2.6E-06	mg/kg-day	3.0E-04	mg/kg-day	8.7E-03
				Cadmium	2E+00	mg/kg	3.1E-09	mg/kg-day	N/A	N/A	N/A	8.9E-09	mg/kg-day	2.5E-05	mg/kg-day	3.6E-04
			Exp. Route Total								1E-06					9E-03
		Exposure Point Total									4E-06					3E-02

TABLE 3-7.1.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station 14	Ingestion													
				Benzo(a)anthracene	1E+00	mg/kg	1.9E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.4E-08	5.6E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	9E-01	mg/kg	1.6E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.1E-07	4.5E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	3.7E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.7E-08	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	1.9E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.4E-09	5.6E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	3E+00	mg/kg	4.5E-08	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	2.0E-02	mg/kg-day	6.6E-06
				Antimony	1E+00	mg/kg	1.7E-08	mg/kg-day	N/A	N/A	N/A	5.0E-08	mg/kg-day	4.0E-04	mg/kg-day	1.3E-04
				Arsenic	7E+01	mg/kg	1.3E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	9.9E-07	3.7E-06	mg/kg-day	5.9E-04	mg/kg-day	6.3E-03
				Barium	2E+01	mg/kg	3.2E-07	mg/kg-day	N/A	N/A	N/A	9.4E-07	mg/kg-day	7.0E-02	mg/kg-day	1.3E-05
				Cadmium	1E+00	mg/kg	1.7E-08	mg/kg-day	N/A	N/A	N/A	5.1E-08	mg/kg-day	1.0E-03	mg/kg-day	5.1E-05
				Chromium III	2E+02	mg/kg	3.8E-06	mg/kg-day	N/A	N/A	N/A	1.1E-05	mg/kg-day	1.5E+00	mg/kg-day	7.3E-06
				Copper	6E+01	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	3.3E-06	mg/kg-day	3.0E-02	mg/kg-day	1.1E-04
				Lead												
				Manganese	2E+02	mg/kg	3.0E-06	mg/kg-day	N/A	N/A	N/A	8.8E-06	mg/kg-day	7.0E-02	mg/kg-day	1.3E-04
				Mercury	1E+00	mg/kg	2.4E-08	mg/kg-day	N/A	N/A	N/A	7.1E-08	mg/kg-day	1.0E-04	mg/kg-day	7.1E-04
				Nickel	1E+01	mg/kg	1.8E-07	mg/kg-day	N/A	N/A	N/A	5.3E-07	mg/kg-day	2.0E-02	mg/kg-day	2.6E-05
				Thallium	8E-01	mg/kg	1.4E-08	mg/kg-day	N/A	N/A	N/A	4.1E-08	mg/kg-day	8.0E-05	mg/kg-day	5.2E-04
				Vanadium	1E+01	mg/kg	2.3E-07	mg/kg-day	N/A	N/A	N/A	6.8E-07	mg/kg-day	1.0E-03	mg/kg-day	6.8E-04
				Zinc	3E+02	mg/kg	4.8E-06	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	3.0E-01	mg/kg-day	4.6E-05
			Exp. Route Total								1E-06					9E-03
			Dermal													
				Benzo(a)anthracene	1E+00	mg/kg	2.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.5E-08	5.8E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	9E-01	mg/kg	1.6E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.2E-07	4.7E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	3.8E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.8E-08	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	2.0E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.5E-09	5.8E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	3E+00	mg/kg	4.7E-08	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	2.0E-02	mg/kg-day	6.9E-06
				Arsenic	7E+01	mg/kg	3.1E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.6E-07	8.9E-07	mg/kg-day	3.0E-04	mg/kg-day	3.0E-03
				Cadmium	1E+00	mg/kg	1.4E-09	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								6E-07					3E-03
		Exposure Point Total									2E-06					1E-02

TABLE 3-7.1.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station 22/TT-22	Ingestion													
				Tetrachloroethene	3E+00	mg/kg	4.8E-08	mg/kg-day	5.4E-01	(mg/kg-day) $^{-1}$	2.6E-08	1.4E-07	mg/kg-day	1.0E-02	mg/kg-day	1.4E-05
				Trichloroethene	7E-01	mg/kg	1.2E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	4.9E-09	3.6E-08	mg/kg-day	3.0E-04	mg/kg-day	1.2E-04
				Benzo(a)anthracene	3E-01	mg/kg	5.2E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.8E-09	1.5E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	3.5E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.5E-08	1.0E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	4E-01	mg/kg	7.7E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.6E-09	2.2E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	5E-01	mg/kg	9.4E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	6.9E-10	2.7E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	4E-02	mg/kg	7.7E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	5.6E-09	2.2E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	2E-01	mg/kg	3.8E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.8E-09	1.1E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	8.5E-09	mg/kg-day	N/A	N/A	N/A	2.5E-08	mg/kg-day	2.0E-02	mg/kg-day	1.2E-06
				Aroclor 1260	3E-02	mg/kg	5.1E-10	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.0E-09	1.5E-09	mg/kg-day	2.0E-05	mg/kg-day	7.4E-05
				Antimony	3E+02	mg/kg	5.7E-06	mg/kg-day	N/A	N/A	N/A	1.7E-05	mg/kg-day	4.0E-04	mg/kg-day	4.2E-02
				Arsenic	8E+01	mg/kg	1.3E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.0E-06	3.9E-06	mg/kg-day	5.9E-04	mg/kg-day	6.7E-03
				Barium	5E+01	mg/kg	8.6E-07	mg/kg-day	N/A	N/A	N/A	2.5E-06	mg/kg-day	7.0E-02	mg/kg-day	3.6E-05
				Cadmium	1E+00	mg/kg	2.5E-08	mg/kg-day	N/A	N/A	N/A	7.3E-08	mg/kg-day	1.0E-03	mg/kg-day	7.3E-05
				Chromium III	6E+01	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	3.3E-06	mg/kg-day	1.5E+00	mg/kg-day	2.2E-06
				Copper	3E+01	mg/kg	5.1E-07	mg/kg-day	N/A	N/A	N/A	1.5E-06	mg/kg-day	3.0E-02	mg/kg-day	5.0E-05
				Lead												
				Manganese	1E+02	mg/kg	2.0E-06	mg/kg-day	N/A	N/A	N/A	5.9E-06	mg/kg-day	7.0E-02	mg/kg-day	8.5E-05
				Mercury	5E-01	mg/kg	8.1E-09	mg/kg-day	N/A	N/A	N/A	2.4E-08	mg/kg-day	1.0E-04	mg/kg-day	2.4E-04
				Nickel	1E+01	mg/kg	2.0E-07	mg/kg-day	N/A	N/A	N/A	5.8E-07	mg/kg-day	2.0E-02	mg/kg-day	2.9E-05
				Vanadium	4E+01	mg/kg	7.1E-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
				Zinc	1E+02	mg/kg	1.7E-06	mg/kg-day	N/A	N/A	N/A	4.9E-06	mg/kg-day	3.0E-01	mg/kg-day	1.6E-05
			Exp. Route Total								1E-06					5E-02
			Dermal													
				Benzo(a)anthracene	3E-01	mg/kg	5.4E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.0E-09	1.6E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	3.6E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.6E-08	1.1E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	4E-01	mg/kg	8.0E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.8E-09	2.3E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	5E-01	mg/kg	9.8E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	7.1E-10	2.9E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	4E-02	mg/kg	8.0E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	5.8E-09	2.3E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	2E-01	mg/kg	4.0E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.9E-09	1.2E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	8.9E-09	mg/kg-day	N/A	N/A	N/A	2.6E-08	mg/kg-day	2.0E-02	mg/kg-day	1.3E-06
				Aroclor 1260	3E-02	mg/kg	5.7E-10	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.1E-09	1.6E-09	mg/kg-day	2.0E-05	mg/kg-day	8.2E-05
				Arsenic	8E+01	mg/kg	3.2E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.8E-07	9.4E-07	mg/kg-day	3.0E-04	mg/kg-day	3.1E-03
				Cadmium	1E+00	mg/kg	2.0E-09	mg/kg-day	N/A	N/A	N/A	5.8E-09	mg/kg-day	2.5E-05	mg/kg-day	2.3E-04
			Exp. Route Total								5E-07					3E-03
		Exposure Point Total									2E-06					5E-02

TABLE 3-7.1.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station WH	Ingestion													
				Trichloroethene	5E-02	mg/kg	9.2E-10	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	3.7E-10	2.7E-09	mg/kg-day	3.0E-04	mg/kg-day	9.0E-06
				Benzo(a)anthracene	6E-01	mg/kg	9.8E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	7.1E-09	2.8E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	1.7E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.3E-07	5.1E-08	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	7.6E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	7E-01	mg/kg	1.3E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	9.2E-10	3.7E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	5.6E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.1E-08	1.6E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	7E-01	mg/kg	1.3E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.4E-09	3.8E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	6E-01	mg/kg	9.9E-09	mg/kg-day	N/A	N/A	N/A	2.9E-08	mg/kg-day	2.0E-02	mg/kg-day	1.5E-06
				Aroclor 1260	6E-02	mg/kg	1.0E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	2.0E-09	3.0E-09	mg/kg-day	2.0E-05	mg/kg-day	1.5E-04
				Antimony	3E+01	mg/kg	6.1E-07	mg/kg-day	N/A	N/A	N/A	1.8E-06	mg/kg-day	4.0E-04	mg/kg-day	4.4E-03
				Arsenic	2E+03	mg/kg	3.3E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.6E-05	9.7E-05	mg/kg-day	5.9E-04	mg/kg-day	1.6E-01
				Barium	9E+01	mg/kg	1.6E-06	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	7.0E-02	mg/kg-day	6.7E-05
				Cadmium	1E+01	mg/kg	1.9E-07	mg/kg-day	N/A	N/A	N/A	5.5E-07	mg/kg-day	1.0E-03	mg/kg-day	5.5E-04
				Chromium III	1E+03	mg/kg	2.1E-05	mg/kg-day	N/A	N/A	N/A	6.0E-05	mg/kg-day	1.5E+00	mg/kg-day	4.0E-05
				Copper	1E+03	mg/kg	2.1E-05	mg/kg-day	N/A	N/A	N/A	6.1E-05	mg/kg-day	3.0E-02	mg/kg-day	2.0E-03
				Lead												
				Manganese	5E+02	mg/kg	8.9E-06	mg/kg-day	N/A	N/A	N/A	2.6E-05	mg/kg-day	7.0E-02	mg/kg-day	3.7E-04
				Mercury	3E+01	mg/kg	4.8E-07	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	1.0E-04	mg/kg-day	1.4E-02
				Nickel	4E+01	mg/kg	7.1E-07	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	2.0E-02	mg/kg-day	1.0E-04
				Thallium	8E-01	mg/kg	1.3E-08	mg/kg-day	N/A	N/A	N/A	3.9E-08	mg/kg-day	8.0E-05	mg/kg-day	4.9E-04
				Vanadium	1E+02	mg/kg	1.7E-06	mg/kg-day	N/A	N/A	N/A	5.0E-06	mg/kg-day	1.0E-03	mg/kg-day	5.0E-03
				Zinc	2E+03	mg/kg	4.0E-05	mg/kg-day	N/A	N/A	N/A	1.2E-04	mg/kg-day	3.0E-01	mg/kg-day	3.9E-04
				Chromium VI	2E+00	mg/kg	2.7E-08	mg/kg-day	N/A	N/A	N/A	7.8E-08	mg/kg-day	3.0E-03	mg/kg-day	2.6E-05
			Exp. Route Total								3E-05					2E-01
			Dermal													
				Benzo(a)anthracene	6E-01	mg/kg	1.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	7.4E-09	3.0E-08	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	5.3E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	2.7E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.0E-08	7.9E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	7E-01	mg/kg	1.3E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	9.5E-10	3.8E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	5.8E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.2E-08	1.7E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	7E-01	mg/kg	1.3E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.8E-09	3.9E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	6E-01	mg/kg	1.0E-08	mg/kg-day	N/A	N/A	N/A	3.0E-08	mg/kg-day	2.0E-02	mg/kg-day	1.5E-06
				Aroclor 1260	6E-02	mg/kg	1.1E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	2.3E-09	3.3E-09	mg/kg-day	2.0E-05	mg/kg-day	1.6E-04
				Arsenic	2E+03	mg/kg	8.0E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.2E-05	2.3E-05	mg/kg-day	3.0E-04	mg/kg-day	7.8E-02
				Cadmium	1E+01	mg/kg	1.5E-08	mg/kg-day	N/A	N/A	N/A	4.4E-08	mg/kg-day	2.5E-05	mg/kg-day	1.7E-03
			Exp. Route Total								1E-05					8E-02
		Exposure Point Total									4E-05					3E-01

TABLE 3-7.1.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station WG	Ingestion													
				Trichloroethene	4E-02	mg/kg	7.3E-10	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	2.9E-10	2.1E-09	mg/kg-day	3.0E-04	mg/kg-day	7.1E-06
				Benzo(a)anthracene	1E-01	mg/kg	2.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.7E-09	6.6E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	2.8E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.0E-08	8.1E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E-01	mg/kg	5.1E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.7E-09	1.5E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E-01	mg/kg	3.5E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	2.5E-10	1.0E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	5E-02	mg/kg	8.0E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	5.8E-09	2.3E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	2.4E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.8E-09	7.1E-09	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E-01	mg/kg	2.8E-09	mg/kg-day	N/A	N/A	N/A	8.1E-09	mg/kg-day	2.0E-02	mg/kg-day	4.1E-07
				Aroclor 1260	1E-02	mg/kg	1.9E-10	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	3.8E-10	5.6E-10	mg/kg-day	2.0E-05	mg/kg-day	2.8E-05
				Antimony	9E+00	mg/kg	1.6E-07	mg/kg-day	N/A	N/A	N/A	4.7E-07	mg/kg-day	4.0E-04	mg/kg-day	1.2E-03
				Arsenic	3E+02	mg/kg	4.6E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.5E-06	1.3E-05	mg/kg-day	5.9E-04	mg/kg-day	2.3E-02
				Barium	9E+01	mg/kg	1.6E-06	mg/kg-day	N/A	N/A	N/A	4.8E-06	mg/kg-day	7.0E-02	mg/kg-day	6.8E-05
				Cadmium	6E+00	mg/kg	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.2E-07	mg/kg-day	1.0E-03	mg/kg-day	3.2E-04
				Chromium III	9E+02	mg/kg	1.6E-05	mg/kg-day	N/A	N/A	N/A	4.7E-05	mg/kg-day	1.5E+00	mg/kg-day	3.2E-05
				Copper	6E+02	mg/kg	1.1E-05	mg/kg-day	N/A	N/A	N/A	3.2E-05	mg/kg-day	3.0E-02	mg/kg-day	1.1E-03
				Lead												
				Manganese	1E+03	mg/kg	1.8E-05	mg/kg-day	N/A	N/A	N/A	5.2E-05	mg/kg-day	7.0E-02	mg/kg-day	7.4E-04
				Mercury	3E+00	mg/kg	5.2E-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
				Nickel	3E+01	mg/kg	6.1E-07	mg/kg-day	N/A	N/A	N/A	1.8E-06	mg/kg-day	2.0E-02	mg/kg-day	8.8E-05
				Thallium	4E-01	mg/kg	7.6E-09	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	7E+01	mg/kg	1.1E-06	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	1E+03	mg/kg	1.9E-05	mg/kg-day	N/A	N/A	N/A	5.5E-05	mg/kg-day	3.0E-01	mg/kg-day	1.8E-04
			Exp. Route Total								4E-06					3E-02
			Dermal													
				Benzo(a)anthracene	1E-01	mg/kg	2.4E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.7E-09	6.9E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	2.9E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.1E-08	8.4E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E-01	mg/kg	5.2E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.8E-09	1.5E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E-01	mg/kg	3.6E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	2.6E-10	1.1E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	5E-02	mg/kg	8.3E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	6.1E-09	2.4E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	2.5E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.8E-09	7.4E-09	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E-01	mg/kg	2.9E-09	mg/kg-day	N/A	N/A	N/A	8.4E-09	mg/kg-day	2.0E-02	mg/kg-day	4.2E-07
				Aroclor 1260	1E-02	mg/kg	2.1E-10	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	4.3E-10	6.3E-10	mg/kg-day	2.0E-05	mg/kg-day	3.1E-05
				Arsenic	3E+02	mg/kg	1.1E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.6E-06	3.2E-06	mg/kg-day	3.0E-04	mg/kg-day	1.1E-02
				Cadmium	8E+00	mg/kg	8.9E-09	mg/kg-day	N/A	N/A	N/A	2.6E-08	mg/kg-day	2.5E-05	mg/kg-day	1.0E-03
			Exp. Route Total								2E-06					1E-02
		Exposure Point Total									5E-06					4E-02

TABLE 3-7.1.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station WS/WSS	Ingestion													
				Antimony	5E+00	mg/kg	3.4E-07	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	4.0E-04	mg/kg-day	2.5E-03
				Arsenic	2E+02	mg/kg	1.6E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.2E-05	4.6E-05	mg/kg-day	5.9E-04	mg/kg-day	7.8E-02
				Barium	1E+02	mg/kg	9.8E-06	mg/kg-day	N/A	N/A	N/A	2.9E-05	mg/kg-day	7.0E-02	mg/kg-day	4.1E-04
				Cadmium	1E+01	mg/kg	7.5E-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
				Chromium III	7E+02	mg/kg	5.1E-05	mg/kg-day	N/A	N/A	N/A	1.5E-04	mg/kg-day	1.5E+00	mg/kg-day	9.9E-05
				Copper	4E+02	mg/kg	2.9E-05	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	1E+03	mg/kg	8.5E-05	mg/kg-day	N/A	N/A	N/A	2.5E-04	mg/kg-day	7.0E-02	mg/kg-day	3.5E-03
				Mercury	1E+00	mg/kg	9.5E-08	mg/kg-day	N/A	N/A	N/A	2.8E-07	mg/kg-day	1.0E-04	mg/kg-day	2.8E-03
				Nickel	4E+01	mg/kg	2.5E-06	mg/kg-day	N/A	N/A	N/A	7.4E-06	mg/kg-day	2.0E-02	mg/kg-day	3.7E-04
				Thallium	1E+00	mg/kg	7.7E-08	mg/kg-day	N/A	N/A	N/A	2.2E-07	mg/kg-day	8.0E-05	mg/kg-day	2.8E-03
				Vanadium	4E+01	mg/kg	3.1E-06	mg/kg-day	N/A	N/A	N/A	9.1E-06	mg/kg-day	1.0E-03	mg/kg-day	9.1E-03
				Zinc	2E+03	mg/kg	1.4E-04	mg/kg-day	N/A	N/A	N/A	4.2E-04	mg/kg-day	3.0E-01	mg/kg-day	1.4E-03
				Chromium VI	9E-01	mg/kg	6.6E-08	mg/kg-day	N/A	N/A	N/A	1.9E-07	mg/kg-day	3.0E-03	mg/kg-day	6.4E-05
			Exp. Route Total								1E-05					1E-01
			Dermal													
				Arsenic	2E+02	mg/kg	3.8E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.7E-06	1.1E-05	mg/kg-day	3.0E-04	mg/kg-day	3.7E-02
				Cadmium	1E+01	mg/kg	6.0E-08	mg/kg-day	N/A	N/A	N/A	1.7E-07	mg/kg-day	2.5E-05	mg/kg-day	7.0E-03
			Exp. Route Total								6E-06					4E-02
		Exposure Point Total									2E-05					1E-01

TABLE 3-7.1.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station TT-30	Ingestion													
				Arsenic	1E+03	mg/kg	1.9E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.5E-05	5.5E-05	mg/kg-day	5.9E-04	mg/kg-day	9.3E-02
				Barium	3E+01	mg/kg	5.7E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	7.0E-02	mg/kg-day	2.4E-05
				Cadmium	7E+00	mg/kg	1.2E-07	mg/kg-day	N/A	N/A	N/A	3.6E-07	mg/kg-day	1.0E-03	mg/kg-day	3.6E-04
				Chromium III	5E+03	mg/kg	9.3E-05	mg/kg-day	N/A	N/A	N/A	2.7E-04	mg/kg-day	1.5E+00	mg/kg-day	1.8E-04
				Copper	4E+03	mg/kg	6.6E-05	mg/kg-day	N/A	N/A	N/A	1.9E-04	mg/kg-day	3.0E-02	mg/kg-day	6.4E-03
				Lead												
				Manganese	2E+02	mg/kg	3.6E-06	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+01	mg/kg	1.6E-06	mg/kg-day	N/A	N/A	N/A	4.5E-06	mg/kg-day	1.0E-04	mg/kg-day	4.5E-02
				Nickel	8E+00	mg/kg	1.4E-07	mg/kg-day	N/A	N/A	N/A	4.1E-07	mg/kg-day	2.0E-02	mg/kg-day	2.0E-05
				Thallium	2E+00	mg/kg	2.6E-08	mg/kg-day	N/A	N/A	N/A	7.6E-08	mg/kg-day	8.0E-05	mg/kg-day	9.5E-04
				Vanadium	2E+01	mg/kg	3.7E-07	mg/kg-day	N/A	N/A	N/A	1.1E-06	mg/kg-day	1.0E-03	mg/kg-day	1.1E-03
				Zinc	1E+03	mg/kg	2.0E-05	mg/kg-day	N/A	N/A	N/A	6.0E-05	mg/kg-day	3.0E-01	mg/kg-day	2.0E-04
				Chromium VI	7E+00	mg/kg	1.2E-07	mg/kg-day	N/A	N/A	N/A	3.5E-07	mg/kg-day	3.0E-03	mg/kg-day	1.2E-04
			Exp. Route Total								1E-05					1E-01
			Dermal													
				Arsenic	1E+03	mg/kg	4.5E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.8E-06	1.3E-05	mg/kg-day	3.0E-04	mg/kg-day	4.4E-02
				Cadmium	7E+00	mg/kg	9.9E-09	mg/kg-day	N/A	N/A	N/A	2.9E-08	mg/kg-day	2.5E-05	mg/kg-day	1.2E-03
			Exp. Route Total								7E-06					5E-02
		Exposure Point Total									2E-05					2E-01

TABLE 3-7.1.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station CB-01	Ingestion													
				Antimony	2E+00	mg/kg	1.4E-07	mg/kg-day	N/A	N/A	N/A	4.2E-07	mg/kg-day	4.0E-04	mg/kg-day	1.0E-03
				Arsenic	6E+01	mg/kg	4.0E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.1E-06	1.2E-05	mg/kg-day	5.9E-04	mg/kg-day	2.0E-02
				Barium	6E+01	mg/kg	4.1E-06	mg/kg-day	N/A	N/A	N/A	1.2E-05	mg/kg-day	7.0E-02	mg/kg-day	1.7E-04
				Cadmium	9E+00	mg/kg	6.5E-07	mg/kg-day	N/A	N/A	N/A	1.9E-06	mg/kg-day	1.0E-03	mg/kg-day	1.9E-03
				Chromium III	3E+02	mg/kg	2.3E-05	mg/kg-day	N/A	N/A	N/A	6.8E-05	mg/kg-day	1.5E+00	mg/kg-day	4.5E-05
				Copper	7E+02	mg/kg	5.2E-05	mg/kg-day	N/A	N/A	N/A	1.5E-04	mg/kg-day	3.0E-02	mg/kg-day	5.1E-03
				Lead												
				Manganese	7E+02	mg/kg	4.8E-05	mg/kg-day	N/A	N/A	N/A	1.4E-04	mg/kg-day	7.0E-02	mg/kg-day	2.0E-03
				Mercury	3E+00	mg/kg	2.1E-07	mg/kg-day	N/A	N/A	N/A	6.0E-07	mg/kg-day	1.0E-04	mg/kg-day	6.0E-03
				Nickel	2E+01	mg/kg	1.4E-06	mg/kg-day	N/A	N/A	N/A	4.2E-06	mg/kg-day	2.0E-02	mg/kg-day	2.1E-04
				Thallium	3E+00	mg/kg	1.8E-07	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	8E+01	mg/kg	5.5E-06	mg/kg-day	N/A	N/A	N/A	1.6E-05	mg/kg-day	1.0E-03	mg/kg-day	1.6E-02
				Zinc	6E+02	mg/kg	4.5E-05	mg/kg-day	N/A	N/A	N/A	1.3E-04	mg/kg-day	3.0E-01	mg/kg-day	4.3E-04
			Exp. Route Total								3E-06					6E-02
			Dermal													
				Arsenic	6E+01	mg/kg	9.7E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.5E-06	2.8E-06	mg/kg-day	3.0E-04	mg/kg-day	9.4E-03
				Cadmium	9E+00	mg/kg	5.2E-08	mg/kg-day	N/A	N/A	N/A	1.5E-07	mg/kg-day	2.5E-05	mg/kg-day	6.0E-03
			Exp. Route Total								1E-06					2E-02
		Exposure Point Total									5E-06					7E-02
		Station CB-02	Ingestion													
				Antimony	2E+00	mg/kg	1.3E-07	mg/kg-day	N/A	N/A	N/A	3.7E-07	mg/kg-day	4.0E-04	mg/kg-day	9.1E-04
				Arsenic	4E+01	mg/kg	2.9E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.2E-06	8.4E-06	mg/kg-day	5.9E-04	mg/kg-day	1.4E-02
				Barium	2E+02	mg/kg	1.2E-05	mg/kg-day	N/A	N/A	N/A	3.5E-05	mg/kg-day	7.0E-02	mg/kg-day	5.0E-04
				Cadmium	4E+00	mg/kg	2.7E-07	mg/kg-day	N/A	N/A	N/A	7.8E-07	mg/kg-day	1.0E-03	mg/kg-day	7.8E-04
				Chromium III	1E+02	mg/kg	1.0E-05	mg/kg-day	N/A	N/A	N/A	2.9E-05	mg/kg-day	1.5E+00	mg/kg-day	1.9E-05
				Copper	1E+02	mg/kg	6.8E-06	mg/kg-day	N/A	N/A	N/A	2.0E-05	mg/kg-day	3.0E-02	mg/kg-day	6.6E-04
				Lead												
				Manganese	7E+01	mg/kg	5.0E-06	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	7.0E-02	mg/kg-day	2.1E-04
				Mercury	3E-01	mg/kg	2.3E-08	mg/kg-day	N/A	N/A	N/A	6.7E-08	mg/kg-day	1.0E-04	mg/kg-day	6.7E-04
				Nickel	1E+01	mg/kg	7.0E-07	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	2.0E-02	mg/kg-day	1.0E-04
				Vanadium	3E+01	mg/kg	2.2E-06	mg/kg-day	N/A	N/A	N/A	6.5E-06	mg/kg-day	1.0E-03	mg/kg-day	6.5E-03
				Zinc	3E+02	mg/kg	2.2E-05	mg/kg-day	N/A	N/A	N/A	6.4E-05	mg/kg-day	3.0E-01	mg/kg-day	2.1E-04
			Exp. Route Total								2E-06					2E-02
			Dermal													
				Arsenic	4E+01	mg/kg	6.9E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.0E-06	2.0E-06	mg/kg-day	3.0E-04	mg/kg-day	6.7E-03
				Cadmium	4E+00	mg/kg	2.1E-08	mg/kg-day	N/A	N/A	N/A	6.2E-08	mg/kg-day	2.5E-05	mg/kg-day	2.5E-03
			Exp. Route Total								1E-06					9E-03
		Exposure Point Total									3E-06					3E-02

TABLE 3-7.1.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station CB-03	Ingestion													
				Antimony	5E+00	mg/kg	3.3E-07	mg/kg-day	N/A	N/A	N/A	9.8E-07	mg/kg-day	4.0E-04	mg/kg-day	2.4E-03
				Arsenic	6E+02	mg/kg	4.1E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.2E-05	1.2E-04	mg/kg-day	5.9E-04	mg/kg-day	2.1E-01
				Barium	7E+01	mg/kg	4.6E-06	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	7.0E-02	mg/kg-day	1.9E-04
				Cadmium	1E+01	mg/kg	9.1E-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
				Chromium III	8E+02	mg/kg	5.4E-05	mg/kg-day	N/A	N/A	N/A	1.6E-04	mg/kg-day	1.5E+00	mg/kg-day	1.0E-04
				Copper	4E+02	mg/kg	2.6E-05	mg/kg-day	N/A	N/A	N/A	7.7E-05	mg/kg-day	3.0E-02	mg/kg-day	2.6E-03
				Lead												
				Manganese	5E+02	mg/kg	3.2E-05	mg/kg-day	N/A	N/A	N/A	9.4E-05	mg/kg-day	7.0E-02	mg/kg-day	1.3E-03
				Mercury	2E+00	mg/kg	1.7E-07	mg/kg-day	N/A	N/A	N/A	5.0E-07	mg/kg-day	1.0E-04	mg/kg-day	5.0E-03
				Nickel	4E+01	mg/kg	2.6E-06	mg/kg-day	N/A	N/A	N/A	7.5E-06	mg/kg-day	2.0E-02	mg/kg-day	3.8E-04
				Thallium	1E+00	mg/kg	6.8E-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	6E+01	mg/kg	4.4E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	1.0E-03	mg/kg-day	1.3E-02
				Zinc	2E+03	mg/kg	1.5E-04	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								3E-05					2E-01
			Dermal													
				Arsenic	6E+02	mg/kg	9.9E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.5E-05	2.9E-05	mg/kg-day	3.0E-04	mg/kg-day	9.7E-02
				Cadmium	1E+01	mg/kg	7.3E-08	mg/kg-day	N/A	N/A	N/A	2.1E-07	mg/kg-day	2.5E-05	mg/kg-day	8.5E-03
			Exp. Route Total								1E-05					1E-01
		Exposure Point Total									5E-05					3E-01
		Station CB-04	Ingestion													
				Antimony	5E+00	mg/kg	3.3E-07	mg/kg-day	N/A	N/A	N/A	9.7E-07	mg/kg-day	4.0E-04	mg/kg-day	2.4E-03
				Arsenic	2E+02	mg/kg	1.3E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	9.8E-06	3.7E-05	mg/kg-day	5.9E-04	mg/kg-day	6.3E-02
				Barium	8E+01	mg/kg	5.3E-06	mg/kg-day	N/A	N/A	N/A	1.6E-05	mg/kg-day	7.0E-02	mg/kg-day	2.2E-04
				Cadmium	6E+00	mg/kg	4.0E-07	mg/kg-day	N/A	N/A	N/A	1.2E-06	mg/kg-day	1.0E-03	mg/kg-day	1.2E-03
				Chromium III	3E+02	mg/kg	1.9E-05	mg/kg-day	N/A	N/A	N/A	5.5E-05	mg/kg-day	1.5E+00	mg/kg-day	3.7E-05
				Copper	2E+02	mg/kg	1.7E-05	mg/kg-day	N/A	N/A	N/A	5.0E-05	mg/kg-day	3.0E-02	mg/kg-day	1.7E-03
				Lead												
				Manganese	1E+03	mg/kg	9.6E-05	mg/kg-day	N/A	N/A	N/A	2.8E-04	mg/kg-day	7.0E-02	mg/kg-day	4.0E-03
				Mercury	1E+00	mg/kg	8.4E-08	mg/kg-day	N/A	N/A	N/A	2.5E-07	mg/kg-day	1.0E-04	mg/kg-day	2.5E-03
				Nickel	8E+01	mg/kg	5.4E-06	mg/kg-day	N/A	N/A	N/A	1.6E-05	mg/kg-day	2.0E-02	mg/kg-day	7.8E-04
				Thallium	5E+00	mg/kg	3.7E-07	mg/kg-day	N/A	N/A	N/A	1.1E-06	mg/kg-day	8.0E-05	mg/kg-day	1.3E-02
				Vanadium	7E+01	mg/kg	4.8E-06	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	1.0E-03	mg/kg-day	1.4E-02
				Zinc	3E+03	mg/kg	2.1E-04	mg/kg-day	N/A	N/A	N/A	6.2E-04	mg/kg-day	3.0E-01	mg/kg-day	2.1E-03
			Exp. Route Total								1E-05					1E-01
			Dermal													
				Arsenic	2E+02	mg/kg	3.0E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.6E-06	8.9E-06	mg/kg-day	3.0E-04	mg/kg-day	3.0E-02
				Cadmium	6E+00	mg/kg	3.2E-08	mg/kg-day	N/A	N/A	N/A	9.3E-08	mg/kg-day	2.5E-05	mg/kg-day	3.7E-03
			Exp. Route Total								5E-06					3E-02
		Exposure Point Total									1E-05					1E-01

TABLE 3-7.1.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station CB-06	Ingestion													
				Antimony	5E+00	mg/kg	3.3E-07	mg/kg-day	N/A	N/A	N/A	9.6E-07	mg/kg-day	4.0E-04	mg/kg-day	2.4E-03
				Arsenic	1E+02	mg/kg	9.8E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	7.5E-06	2.8E-05	mg/kg-day	5.9E-04	mg/kg-day	4.8E-02
				Barium	5E+01	mg/kg	3.6E-06	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	7.0E-02	mg/kg-day	1.5E-04
				Cadmium	2E+01	mg/kg	1.2E-06	mg/kg-day	N/A	N/A	N/A	3.5E-06	mg/kg-day	1.0E-03	mg/kg-day	3.5E-03
				Chromium III	5E+02	mg/kg	3.5E-05	mg/kg-day	N/A	N/A	N/A	1.0E-04	mg/kg-day	1.5E+00	mg/kg-day	6.7E-05
				Copper	2E+02	mg/kg	1.6E-05	mg/kg-day	N/A	N/A	N/A	4.8E-05	mg/kg-day	3.0E-02	mg/kg-day	1.6E-03
				Lead												
				Manganese	9E+01	mg/kg	6.5E-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	3E-01	mg/kg	2.4E-08	mg/kg-day	N/A	N/A	N/A	6.9E-08	mg/kg-day	1.0E-04	mg/kg-day	6.9E-04
				Nickel	3E+01	mg/kg	1.9E-06	mg/kg-day	N/A	N/A	N/A	5.6E-06	mg/kg-day	2.0E-02	mg/kg-day	2.8E-04
				Thallium	4E+00	mg/kg	2.9E-07	mg/kg-day	N/A	N/A	N/A	8.4E-07	mg/kg-day	8.0E-05	mg/kg-day	1.1E-02
				Vanadium	7E+01	mg/kg	5.0E-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
				Zinc	2E+03	mg/kg	1.4E-04	mg/kg-day	N/A	N/A	N/A	4.2E-04	mg/kg-day	3.0E-01	mg/kg-day	1.4E-03
				Chromium VI	6E-01	mg/kg	4.5E-08	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	3.0E-03	mg/kg-day	4.4E-05
			Exp. Route Total								8E-06					8E-02
			Dermal													
				Arsenic	1E+02	mg/kg	2.3E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.5E-06	6.8E-06	mg/kg-day	3.0E-04	mg/kg-day	2.3E-02
				Cadmium	2E+01	mg/kg	9.6E-08	mg/kg-day	N/A	N/A	N/A	2.8E-07	mg/kg-day	2.5E-05	mg/kg-day	1.1E-02
			Exp. Route Total								4E-06					3E-02
		Exposure Point Total									1E-05					1E-01
		Station CB-07	Ingestion													
				Arsenic	2E+02	mg/kg	3.7E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.8E-06	1.1E-05	mg/kg-day	5.9E-04	mg/kg-day	1.8E-02
				Barium	6E+01	mg/kg	9.8E-07	mg/kg-day	N/A	N/A	N/A	2.9E-06	mg/kg-day	7.0E-02	mg/kg-day	4.1E-05
				Cadmium	5E+00	mg/kg	8.5E-08	mg/kg-day	N/A	N/A	N/A	2.5E-07	mg/kg-day	1.0E-03	mg/kg-day	2.5E-04
				Chromium III	7E+02	mg/kg	1.2E-05	mg/kg-day	N/A	N/A	N/A	3.6E-05	mg/kg-day	1.5E+00	mg/kg-day	2.4E-05
				Copper	4E+02	mg/kg	7.6E-06	mg/kg-day	N/A	N/A	N/A	2.2E-05	mg/kg-day	3.0E-02	mg/kg-day	7.4E-04
				Lead												
				Manganese	6E+02	mg/kg	1.1E-05	mg/kg-day	N/A	N/A	N/A	3.3E-05	mg/kg-day	7.0E-02	mg/kg-day	4.7E-04
				Mercury	1E+00	mg/kg	2.3E-08	mg/kg-day	N/A	N/A	N/A	6.6E-08	mg/kg-day	1.0E-04	mg/kg-day	6.6E-04
				Nickel	2E+01	mg/kg	3.8E-07	mg/kg-day	N/A	N/A	N/A	1.1E-06	mg/kg-day	2.0E-02	mg/kg-day	5.6E-05
				Vanadium	9E+01	mg/kg	1.6E-06	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	1.0E-03	mg/kg-day	4.7E-03
				Zinc	6E+02	mg/kg	1.1E-05	mg/kg-day	N/A	N/A	N/A	3.1E-05	mg/kg-day	3.0E-01	mg/kg-day	1.0E-04
			Exp. Route Total								3E-06					3E-02
			Dermal													
				Arsenic	2E+02	mg/kg	8.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-06	2.6E-06	mg/kg-day	3.0E-04	mg/kg-day	8.6E-03
				Cadmium	5E+00	mg/kg	6.8E-09	mg/kg-day	N/A	N/A	N/A	2.0E-08	mg/kg-day	2.5E-05	mg/kg-day	7.9E-04
			Exp. Route Total								1E-06					9E-03
		Exposure Point Total									4E-06					3E-02

TABLE 3-7.1.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station 18/TT-33	Ingestion													
				Benzo(a)anthracene	1E-01	mg/kg	5.8E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.2E-09	1.7E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E-01	mg/kg	7.3E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	5.3E-08	2.1E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E-01	mg/kg	1.4E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.9E-09	4.0E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E-01	mg/kg	5.2E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	3.8E-10	1.5E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	6E-02	mg/kg	3.1E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.3E-09	9.2E-09	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	1E-01	mg/kg	6.8E-09	mg/kg-day	N/A	N/A	N/A	2.0E-08	mg/kg-day	2.0E-02	mg/kg-day	9.9E-07
				Antimony	6E+00	mg/kg	3.1E-07	mg/kg-day	N/A	N/A	N/A	9.0E-07	mg/kg-day	4.0E-04	mg/kg-day	2.2E-03
				Arsenic	2E+02	mg/kg	1.2E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	9.5E-06	3.6E-05	mg/kg-day	5.9E-04	mg/kg-day	6.1E-02
				Barium	6E+01	mg/kg	3.3E-06	mg/kg-day	N/A	N/A	N/A	9.5E-06	mg/kg-day	7.0E-02	mg/kg-day	1.4E-04
				Cadmium	6E+00	mg/kg	2.9E-07	mg/kg-day	N/A	N/A	N/A	8.5E-07	mg/kg-day	1.0E-03	mg/kg-day	8.5E-04
				Chromium III	2E+03	mg/kg	1.2E-04	mg/kg-day	N/A	N/A	N/A	3.4E-04	mg/kg-day	1.5E+00	mg/kg-day	2.2E-04
				Copper	4E+02	mg/kg	2.1E-05	mg/kg-day	N/A	N/A	N/A	6.1E-05	mg/kg-day	3.0E-02	mg/kg-day	2.0E-03
				Lead												
				Manganese	8E+02	mg/kg	4.1E-05	mg/kg-day	N/A	N/A	N/A	1.2E-04	mg/kg-day	7.0E-02	mg/kg-day	1.7E-03
				Mercury	3E+00	mg/kg	1.8E-07	mg/kg-day	N/A	N/A	N/A	5.2E-07	mg/kg-day	1.0E-04	mg/kg-day	5.2E-03
				Nickel	2E+01	mg/kg	8.1E-07	mg/kg-day	N/A	N/A	N/A	2.4E-06	mg/kg-day	2.0E-02	mg/kg-day	1.2E-04
				Vanadium	3E+01	mg/kg	1.6E-06	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	1.0E-03	mg/kg-day	4.7E-03
				Zinc	9E+02	mg/kg	4.9E-05	mg/kg-day	N/A	N/A	N/A	1.4E-04	mg/kg-day	3.0E-01	mg/kg-day	4.7E-04
				Chromium VI	3E+00	mg/kg	1.5E-07	mg/kg-day	N/A	N/A	N/A	4.4E-07	mg/kg-day	3.0E-03	mg/kg-day	1.5E-04
			Exp. Route Total								1E-05					8E-02
			Dermal													
				Benzo(a)anthracene	1E-01	mg/kg	6.0E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.4E-09	1.7E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E-01	mg/kg	7.6E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	5.5E-08	2.2E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E-01	mg/kg	1.4E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.0E-08	4.1E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E-01	mg/kg	5.4E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	3.9E-10	1.6E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	6E-02	mg/kg	3.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.4E-09	9.5E-09	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	1E-01	mg/kg	7.1E-09	mg/kg-day	N/A	N/A	N/A	2.1E-08	mg/kg-day	2.0E-02	mg/kg-day	1.0E-06
				Arsenic	2E+02	mg/kg	3.0E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.4E-06	8.6E-06	mg/kg-day	3.0E-04	mg/kg-day	2.9E-02
				Cadmium	6E+00	mg/kg	2.3E-08	mg/kg-day	N/A	N/A	N/A	6.8E-08	mg/kg-day	2.5E-05	mg/kg-day	2.7E-03
			Exp. Route Total								5E-06					3E-02
		Exposure Point Total									1E-05					1E-01

TABLE 3-7.1.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station 09	Ingestion													
				Benzo(a)anthracene	5E-01	mg/kg	2.5E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.8E-08	7.3E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	5E-01	mg/kg	2.6E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.9E-07	7.7E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	6.9E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.1E-08	2.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	6.3E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	4.6E-09	1.8E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	8E-02	mg/kg	4.2E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.1E-08	1.2E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	mg/kg	1.3E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.6E-09	3.8E-08	mg/kg-day	N/A	N/A	N/A
				Antimony	1E+00	mg/kg	5.3E-08	mg/kg-day	N/A	N/A	N/A	1.5E-07	mg/kg-day	4.0E-04	mg/kg-day	3.9E-04
				Arsenic	3E+01	mg/kg	1.8E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.4E-06	5.3E-06	mg/kg-day	5.9E-04	mg/kg-day	9.0E-03
				Barium	3E+01	mg/kg	1.7E-06	mg/kg-day	N/A	N/A	N/A	5.1E-06	mg/kg-day	7.0E-02	mg/kg-day	7.2E-05
				Cadmium	7E-01	mg/kg	3.6E-08	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	1.0E-03	mg/kg-day	1.0E-04
				Chromium III	6E+01	mg/kg	3.1E-06	mg/kg-day	N/A	N/A	N/A	9.0E-06	mg/kg-day	1.5E+00	mg/kg-day	6.0E-06
				Copper	6E+01	mg/kg	3.3E-06	mg/kg-day	N/A	N/A	N/A	9.6E-06	mg/kg-day	3.0E-02	mg/kg-day	3.2E-04
				Lead												
				Manganese	3E+03	mg/kg	1.4E-04	mg/kg-day	N/A	N/A	N/A	4.0E-04	mg/kg-day	7.0E-02	mg/kg-day	5.8E-03
				Mercury	4E-01	mg/kg	2.0E-08	mg/kg-day	N/A	N/A	N/A	5.9E-08	mg/kg-day	1.0E-04	mg/kg-day	5.9E-04
				Nickel	1E+01	mg/kg	5.1E-07	mg/kg-day	N/A	N/A	N/A	1.5E-06	mg/kg-day	2.0E-02	mg/kg-day	7.4E-05
				Thallium	1E+00	mg/kg	6.8E-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	1E+01	mg/kg	7.1E-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
				Zinc	2E+02	mg/kg	1.2E-05	mg/kg-day	N/A	N/A	N/A	3.6E-05	mg/kg-day	3.0E-01	mg/kg-day	1.2E-04
			Exp. Route Total								2E-06					2E-02
			Dermal													
				Benzo(a)anthracene	5E-01	mg/kg	2.6E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.9E-08	7.6E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	5E-01	mg/kg	2.7E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.0E-07	8.0E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	7.2E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.2E-08	2.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	6.6E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	4.8E-09	1.9E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	8E-02	mg/kg	4.3E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.2E-08	1.3E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	mg/kg	1.4E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.0E-08	4.0E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E+00	mg/kg	1.0E-07	mg/kg-day	N/A	N/A	N/A	3.0E-07	mg/kg-day	2.0E-02	mg/kg-day	1.5E-05
				Arsenic	3E+01	mg/kg	4.4E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.6E-07	1.3E-06	mg/kg-day	3.0E-04	mg/kg-day	4.2E-03
				Cadmium	7E-01	mg/kg	2.8E-09	mg/kg-day	N/A	N/A	N/A	8.3E-09	mg/kg-day	2.5E-05	mg/kg-day	3.3E-04
			Exp. Route Total								1E-06					5E-03
		Exposure Point Total									3E-06					3E-02

TABLE 3-7.1.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station AM	Ingestion													
				Antimony	2E+00	mg/kg	3.5E-08	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	4.0E-04	mg/kg-day	2.5E-04
				Arsenic	1E+02	mg/kg	2.1E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.6E-06	6.2E-06	mg/kg-day	5.9E-04	mg/kg-day	1.0E-02
				Barium	6E+01	mg/kg	1.0E-06	mg/kg-day	N/A	N/A	N/A	3.0E-06	mg/kg-day	7.0E-02	mg/kg-day	4.2E-05
				Cadmium	4E+00	mg/kg	6.8E-08	mg/kg-day	N/A	N/A	N/A	2.0E-07	mg/kg-day	1.0E-03	mg/kg-day	2.0E-04
				Chromium III	3E+02	mg/kg	5.6E-06	mg/kg-day	N/A	N/A	N/A	1.6E-05	mg/kg-day	1.5E+00	mg/kg-day	1.1E-05
				Copper	2E+02	mg/kg	3.4E-06	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	3.0E-02	mg/kg-day	3.3E-04
				Lead												
				Manganese	1E+03	mg/kg	2.0E-05	mg/kg-day	N/A	N/A	N/A	5.8E-05	mg/kg-day	7.0E-02	mg/kg-day	8.3E-04
				Mercury	2E+00	mg/kg	3.3E-08	mg/kg-day	N/A	N/A	N/A	9.7E-08	mg/kg-day	1.0E-04	mg/kg-day	9.7E-04
				Nickel	2E+01	mg/kg	3.1E-07	mg/kg-day	N/A	N/A	N/A	9.2E-07	mg/kg-day	2.0E-02	mg/kg-day	4.6E-05
				Thallium	4E-01	mg/kg	7.7E-09	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	3E+01	mg/kg	4.7E-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
				Zinc	9E+02	mg/kg	1.6E-05	mg/kg-day	N/A	N/A	N/A	4.8E-05	mg/kg-day	3.0E-01	mg/kg-day	1.6E-04
			Exp. Route Total								2E-06					1E-02
			Dermal													
				Arsenic	1E+02	mg/kg	5.1E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	7.6E-07	1.5E-06	mg/kg-day	3.0E-04	mg/kg-day	4.9E-03
				Cadmium	4E+00	mg/kg	5.4E-09	mg/kg-day	N/A	N/A	N/A	1.6E-08	mg/kg-day	2.5E-05	mg/kg-day	6.3E-04
			Exp. Route Total								8E-07					6E-03
		Exposure Point Total									2E-06					2E-02
		Station KF	Ingestion													
				Arsenic	5E+01	mg/kg	2.7E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.1E-06	7.9E-06	mg/kg-day	5.9E-04	mg/kg-day	1.3E-02
				Barium	4E+01	mg/kg	2.1E-06	mg/kg-day	N/A	N/A	N/A	6.2E-06	mg/kg-day	7.0E-02	mg/kg-day	8.9E-05
				Cadmium	1E+00	mg/kg	5.4E-08	mg/kg-day	N/A	N/A	N/A	1.6E-07	mg/kg-day	1.0E-03	mg/kg-day	1.6E-04
				Chromium III	9E+01	mg/kg	4.6E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	1.5E+00	mg/kg-day	8.9E-06
				Copper	1E+02	mg/kg	5.9E-06	mg/kg-day	N/A	N/A	N/A	1.7E-05	mg/kg-day	3.0E-02	mg/kg-day	5.7E-04
				Lead												
				Manganese	4E+02	mg/kg	1.9E-05	mg/kg-day	N/A	N/A	N/A	5.5E-05	mg/kg-day	7.0E-02	mg/kg-day	7.9E-04
				Mercury	9E-01	mg/kg	4.7E-08	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	1.0E-04	mg/kg-day	1.4E-03
				Nickel	9E+00	mg/kg	4.7E-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
				Vanadium	2E+01	mg/kg	1.2E-06	mg/kg-day	N/A	N/A	N/A	3.5E-06	mg/kg-day	1.0E-03	mg/kg-day	3.5E-03
				Zinc	3E+02	mg/kg	1.8E-05	mg/kg-day	N/A	N/A	N/A	5.3E-05	mg/kg-day	3.0E-01	mg/kg-day	1.8E-04
			Exp. Route Total								2E-06					2E-02
			Dermal													
				Arsenic	5E+01	mg/kg	6.5E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	9.7E-07	1.9E-06	mg/kg-day	3.0E-04	mg/kg-day	6.3E-03
				Cadmium	1E+00	mg/kg	4.3E-09	mg/kg-day	N/A	N/A	N/A	1.3E-08	mg/kg-day	2.5E-05	mg/kg-day	5.0E-04
			Exp. Route Total								1E-06					7E-03
		Exposure Point Total									3E-06					3E-02

TABLE 3-7.1.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station 08	Ingestion													
				Benzo(a)anthracene	7E-01	mg/kg	3.6E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.6E-08	1.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	9E-01	mg/kg	4.9E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.6E-07	1.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	9.9E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	7.3E-08	2.9E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E+00	mg/kg	1.0E-07	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	7.6E-09	3.1E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	2E-01	mg/kg	8.4E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	6.1E-08	2.4E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	7E-01	mg/kg	3.6E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.6E-08	1.0E-07	mg/kg-day	N/A	N/A	N/A
				Antimony	2E+00	mg/kg	8.4E-08	mg/kg-day	N/A	N/A	N/A	2.4E-07	mg/kg-day	4.0E-04	mg/kg-day	6.1E-04
				Arsenic	3E+01	mg/kg	1.5E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.2E-06	4.4E-06	mg/kg-day	5.9E-04	mg/kg-day	7.5E-03
				Barium	2E+01	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	3.2E-06	mg/kg-day	7.0E-02	mg/kg-day	4.6E-05
				Chromium III	1E+02	mg/kg	6.2E-06	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	1.5E+00	mg/kg-day	1.2E-05
				Copper	1E+02	mg/kg	7.0E-06	mg/kg-day	N/A	N/A	N/A	2.0E-05	mg/kg-day	3.0E-02	mg/kg-day	6.8E-04
				Lead												
				Manganese	2E+02	mg/kg	1.2E-05	mg/kg-day	N/A	N/A	N/A	3.5E-05	mg/kg-day	7.0E-02	mg/kg-day	5.0E-04
				Mercury	1E+00	mg/kg	5.2E-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
				Nickel	2E+01	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	3.1E-06	mg/kg-day	2.0E-02	mg/kg-day	1.5E-04
				Thallium	2E+00	mg/kg	8.9E-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	2E+01	mg/kg	9.2E-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	5E+02	mg/kg	2.8E-05	mg/kg-day	N/A	N/A	N/A	8.2E-05	mg/kg-day	3.0E-01	mg/kg-day	2.7E-04
			Exp. Route Total								2E-06					2E-02
			Dermal													
				Benzo(a)anthracene	7E-01	mg/kg	3.7E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.7E-08	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	9E-01	mg/kg	5.1E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.7E-07	1.5E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	1.0E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	7.5E-08	3.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E+00	mg/kg	1.1E-07	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	7.9E-09	3.2E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	2E-01	mg/kg	8.7E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	6.3E-08	2.5E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	7E-01	mg/kg	3.7E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.7E-08	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	6E-01	mg/kg	3.3E-08	mg/kg-day	N/A	N/A	N/A	9.7E-08	mg/kg-day	2.0E-02	mg/kg-day	4.8E-06
				Arsenic	3E+01	mg/kg	3.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.4E-07	1.1E-06	mg/kg-day	3.0E-04	mg/kg-day	3.5E-03
			Exp. Route Total								1E-06					4E-03
		Exposure Point Total									3E-06					2E-02

TABLE 3-7.1.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station 07/DP	Ingestion													
				Trichloroethene	2E-02	mg/kg	1.2E-09	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	4.6E-10	3.4E-09	mg/kg-day	3.0E-04	mg/kg-day	1.1E-05
				Benzo(a)anthracene	6E+00	mg/kg	2.9E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.1E-07	8.5E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	6E+00	mg/kg	2.9E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.1E-06	8.5E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+01	mg/kg	5.0E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.6E-07	1.5E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	9E+00	mg/kg	4.8E-07	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	3.5E-08	1.4E-06	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1E+00	mg/kg	5.7E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.1E-07	1.7E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	4E+00	mg/kg	2.0E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.5E-07	5.9E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	7E+00	mg/kg	3.6E-07	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	2.0E-02	mg/kg-day	5.2E-05
				Aroclor 1260	7E-02	mg/kg	3.5E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	6.9E-09	1.0E-08	mg/kg-day	2.0E-05	mg/kg-day	5.1E-04
				Antimony	2E+00	mg/kg	1.2E-07	mg/kg-day	N/A	N/A	N/A	3.6E-07	mg/kg-day	4.0E-04	mg/kg-day	8.9E-04
				Arsenic	8E+01	mg/kg	4.2E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.2E-06	1.2E-05	mg/kg-day	5.9E-04	mg/kg-day	2.1E-02
				Barium	8E+01	mg/kg	4.4E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	7.0E-02	mg/kg-day	1.8E-04
				Cadmium	5E+00	mg/kg	2.7E-07	mg/kg-day	N/A	N/A	N/A	7.8E-07	mg/kg-day	1.0E-03	mg/kg-day	7.8E-04
				Chromium III	2E+02	mg/kg	1.3E-05	mg/kg-day	N/A	N/A	N/A	3.8E-05	mg/kg-day	1.5E+00	mg/kg-day	2.5E-05
				Copper	2E+02	mg/kg	1.2E-05	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	4E+02	mg/kg	2.2E-05	mg/kg-day	N/A	N/A	N/A	6.4E-05	mg/kg-day	7.0E-02	mg/kg-day	9.1E-04
				Mercury	3E+00	mg/kg	1.5E-07	mg/kg-day	N/A	N/A	N/A	4.2E-07	mg/kg-day	1.0E-04	mg/kg-day	4.2E-03
				Nickel	3E+01	mg/kg	1.4E-06	mg/kg-day	N/A	N/A	N/A	4.2E-06	mg/kg-day	2.0E-02	mg/kg-day	2.1E-04
				Thallium	2E+00	mg/kg	1.2E-07	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	5E+01	mg/kg	2.7E-06	mg/kg-day	N/A	N/A	N/A	7.9E-06	mg/kg-day	1.0E-03	mg/kg-day	7.9E-03
				Zinc	1E+03	mg/kg	7.0E-05	mg/kg-day	N/A	N/A	N/A	2.0E-04	mg/kg-day	3.0E-01	mg/kg-day	6.8E-04
			Exp. Route Total								7E-06					4E-02
			Dermal													
				Benzo(a)anthracene	6E+00	mg/kg	3.0E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.2E-07	8.8E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	6E+00	mg/kg	3.0E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.2E-06	8.8E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+01	mg/kg	5.2E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.8E-07	1.5E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	9E+00	mg/kg	5.0E-07	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	3.6E-08	1.5E-06	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1E+00	mg/kg	5.9E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.3E-07	1.7E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	4E+00	mg/kg	2.1E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.5E-07	6.1E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	7E+00	mg/kg	3.7E-07	mg/kg-day	N/A	N/A	N/A	1.1E-06	mg/kg-day	2.0E-02	mg/kg-day	5.4E-05
				Aroclor 1260	7E-02	mg/kg	3.9E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	7.8E-09	1.1E-08	mg/kg-day	2.0E-05	mg/kg-day	5.7E-04
				Arsenic	8E+01	mg/kg	1.0E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.5E-06	2.9E-06	mg/kg-day	3.0E-04	mg/kg-day	9.7E-03
				Cadmium	5E+00	mg/kg	2.1E-08	mg/kg-day	N/A	N/A	N/A	6.2E-08	mg/kg-day	2.5E-05	mg/kg-day	2.5E-03
			Exp. Route Total								5E-06					1E-02
		Exposure Point Total									1E-05					6E-02

TABLE 3-7.1.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station LP	Ingestion													
				Antimony	2E+00	mg/kg	1.0E-07	mg/kg-day	N/A	N/A	N/A	2.9E-07	mg/kg-day	4.0E-04	mg/kg-day	7.4E-04
				Arsenic	1E+02	mg/kg	7.8E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	6.0E-06	2.3E-05	mg/kg-day	5.9E-04	mg/kg-day	3.9E-02
				Barium	4E+01	mg/kg	2.1E-06	mg/kg-day	N/A	N/A	N/A	6.2E-06	mg/kg-day	7.0E-02	mg/kg-day	8.9E-05
				Cadmium	3E+00	mg/kg	1.5E-07	mg/kg-day	N/A	N/A	N/A	4.4E-07	mg/kg-day	1.0E-03	mg/kg-day	4.4E-04
				Chromium III	9E+01	mg/kg	4.6E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	1.5E+00	mg/kg-day	8.9E-06
				Copper	5E+02	mg/kg	2.5E-05	mg/kg-day	N/A	N/A	N/A	7.4E-05	mg/kg-day	3.0E-02	mg/kg-day	2.5E-03
				Lead												
				Manganese	2E+02	mg/kg	1.1E-05	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	8E-01	mg/kg	4.2E-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
				Nickel	1E+01	mg/kg	7.6E-07	mg/kg-day	N/A	N/A	N/A	2.2E-06	mg/kg-day	2.0E-02	mg/kg-day	1.1E-04
				Thallium	2E+00	mg/kg	1.0E-07	mg/kg-day	N/A	N/A	N/A	3.0E-07	mg/kg-day	8.0E-05	mg/kg-day	3.8E-03
				Vanadium	2E+01	mg/kg	1.2E-06	mg/kg-day	N/A	N/A	N/A	3.5E-06	mg/kg-day	1.0E-03	mg/kg-day	3.5E-03
				Zinc	2E+03	mg/kg	8.9E-05	mg/kg-day	N/A	N/A	N/A	2.6E-04	mg/kg-day	3.0E-01	mg/kg-day	8.6E-04
			Exp. Route Total								6E-06					5E-02
			Dermal													
				Arsenic	1E+02	mg/kg	1.9E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.8E-06	5.5E-06	mg/kg-day	3.0E-04	mg/kg-day	1.8E-02
				Cadmium	3E+00	mg/kg	1.2E-08	mg/kg-day	N/A	N/A	N/A	3.5E-08	mg/kg-day	2.5E-05	mg/kg-day	1.4E-03
			Exp. Route Total								3E-06					2E-02
		Exposure Point Total									9E-06					7E-02
		Station AS	Ingestion													
				Antimony	3E+00	mg/kg	5.1E-08	mg/kg-day	N/A	N/A	N/A	1.5E-07	mg/kg-day	4.0E-04	mg/kg-day	3.7E-04
				Arsenic	1E+02	mg/kg	2.1E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.6E-06	6.2E-06	mg/kg-day	5.9E-04	mg/kg-day	1.0E-02
				Barium	1E+02	mg/kg	1.9E-06	mg/kg-day	N/A	N/A	N/A	5.5E-06	mg/kg-day	7.0E-02	mg/kg-day	7.9E-05
				Cadmium	1E+01	mg/kg	2.3E-07	mg/kg-day	N/A	N/A	N/A	6.8E-07	mg/kg-day	1.0E-03	mg/kg-day	6.8E-04
				Chromium III	9E+02	mg/kg	1.6E-05	mg/kg-day	N/A	N/A	N/A	4.7E-05	mg/kg-day	1.5E+00	mg/kg-day	3.1E-05
				Copper	6E+02	mg/kg	1.0E-05	mg/kg-day	N/A	N/A	N/A	2.9E-05	mg/kg-day	3.0E-02	mg/kg-day	9.8E-04
				Lead												
				Manganese	4E+02	mg/kg	8.7E-06	mg/kg-day	N/A	N/A	N/A	2.0E-05	mg/kg-day	7.0E-02	mg/kg-day	2.8E-04
				Mercury	3E+00	mg/kg	5.4E-08	mg/kg-day	N/A	N/A	N/A	1.6E-07	mg/kg-day	1.0E-04	mg/kg-day	1.6E-03
				Nickel	4E+01	mg/kg	6.9E-07	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	2.0E-02	mg/kg-day	1.0E-04
				Thallium	1E+00	mg/kg	2.1E-08	mg/kg-day	N/A	N/A	N/A	6.1E-08	mg/kg-day	8.0E-05	mg/kg-day	7.6E-04
				Vanadium	7E+01	mg/kg	1.3E-06	mg/kg-day	N/A	N/A	N/A	3.7E-06	mg/kg-day	1.0E-03	mg/kg-day	3.7E-03
				Zinc	2E+03	mg/kg	4.0E-05	mg/kg-day	N/A	N/A	N/A	1.2E-04	mg/kg-day	3.0E-01	mg/kg-day	3.9E-04
			Exp. Route Total								2E-06					2E-02
			Dermal													
				Arsenic	1E+02	mg/kg	5.1E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	7.6E-07	1.5E-06	mg/kg-day	3.0E-04	mg/kg-day	4.9E-03
				Cadmium	1E+01	mg/kg	1.9E-08	mg/kg-day	N/A	N/A	N/A	5.4E-08	mg/kg-day	2.5E-05	mg/kg-day	2.2E-03
			Exp. Route Total								8E-07					7E-03
		Exposure Point Total									2E-06					3E-02

TABLE 3-7.1.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station 05	Ingestion													
				Benzo(a)anthracene	2E+00	mg/kg	1.2E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	8.8E-08	3.5E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	3E+00	mg/kg	1.3E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	9.6E-07	3.8E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E+00	mg/kg	1.6E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.1E-07	4.6E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E+00	mg/kg	9.9E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	7.3E-09	2.9E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E+00	mg/kg	6.3E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.6E-08	1.8E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E+00	mg/kg	1.2E-07	mg/kg-day	N/A	N/A	N/A	3.4E-07	mg/kg-day	2.0E-02	mg/kg-day	1.7E-05
				Antimony	2E+00	mg/kg	9.4E-08	mg/kg-day	N/A	N/A	N/A	2.7E-07	mg/kg-day	4.0E-04	mg/kg-day	6.9E-04
				Arsenic	2E+01	mg/kg	1.3E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.0E-06	3.8E-06	mg/kg-day	5.9E-04	mg/kg-day	6.4E-03
				Barium	4E+01	mg/kg	2.3E-06	mg/kg-day	N/A	N/A	N/A	6.6E-06	mg/kg-day	7.0E-02	mg/kg-day	9.4E-05
				Cadmium	2E+00	mg/kg	8.4E-08	mg/kg-day	N/A	N/A	N/A	2.4E-07	mg/kg-day	1.0E-03	mg/kg-day	2.4E-04
				Chromium III	1E+02	mg/kg	7.8E-06	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	1.5E+00	mg/kg-day	1.5E-05
				Copper	8E+01	mg/kg	4.2E-06	mg/kg-day	N/A	N/A	N/A	1.2E-05	mg/kg-day	3.0E-02	mg/kg-day	4.1E-04
				Lead												
				Manganese	1E+03	mg/kg	5.0E-05	mg/kg-day	N/A	N/A	N/A	1.5E-04	mg/kg-day	7.0E-02	mg/kg-day	2.1E-03
				Mercury	1E+00	mg/kg	6.3E-08	mg/kg-day	N/A	N/A	N/A	1.8E-07	mg/kg-day	1.0E-04	mg/kg-day	1.8E-03
				Nickel	1E+01	mg/kg	5.6E-07	mg/kg-day	N/A	N/A	N/A	1.6E-06	mg/kg-day	2.0E-02	mg/kg-day	8.2E-05
				Thallium	1E+00	mg/kg	5.1E-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	mg/kg	1.0E-06	mg/kg-day	N/A	N/A	N/A	3.0E-06	mg/kg-day	1.0E-03	mg/kg-day	3.0E-03
				Zinc	6E+02	mg/kg	3.0E-05	mg/kg-day	N/A	N/A	N/A	8.7E-05	mg/kg-day	3.0E-01	mg/kg-day	2.9E-04
			Exp. Route Total								2E-06					2E-02
			Dermal													
				Benzo(a)anthracene	2E+00	mg/kg	1.2E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.1E-08	3.6E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	3E+00	mg/kg	1.4E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	9.9E-07	4.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E+00	mg/kg	1.6E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.2E-07	4.8E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E+00	mg/kg	1.0E-07	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	7.5E-09	3.0E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E+00	mg/kg	6.5E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.8E-08	1.9E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E+00	mg/kg	1.2E-07	mg/kg-day	N/A	N/A	N/A	3.5E-07	mg/kg-day	2.0E-02	mg/kg-day	1.7E-05
				Arsenic	2E+01	mg/kg	3.1E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.7E-07	9.1E-07	mg/kg-day	3.0E-04	mg/kg-day	3.0E-03
				Cadmium	2E+00	mg/kg	6.7E-09	mg/kg-day	N/A	N/A	N/A	1.9E-08	mg/kg-day	2.5E-05	mg/kg-day	7.8E-04
			Exp. Route Total								2E-06					4E-03
		Exposure Point Total									4E-06					2E-02

TABLE 3-7.1.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station 03	Ingestion													
				Benzo(a)anthracene	1E+00	mg/kg	6.8E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.0E-08	2.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	5.2E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.8E-07	1.5E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	7.3E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.3E-08	2.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	6E-01	mg/kg	3.3E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	2.4E-09	9.8E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1E-01	mg/kg	5.8E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.2E-08	1.7E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	6E-01	mg/kg	3.2E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.4E-08	9.5E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	1E+00	mg/kg	5.2E-08	mg/kg-day	N/A	N/A	N/A	1.5E-07	mg/kg-day	2.0E-02	mg/kg-day	7.6E-06
				Aroclor 1260	1E-01	mg/kg	5.8E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.2E-08	1.7E-08	mg/kg-day	2.0E-05	mg/kg-day	8.4E-04
				Antimony	2E+00	mg/kg	8.9E-08	mg/kg-day	N/A	N/A	N/A	2.6E-07	mg/kg-day	4.0E-04	mg/kg-day	6.5E-04
				Arsenic	9E+01	mg/kg	4.5E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.5E-06	1.3E-05	mg/kg-day	5.9E-04	mg/kg-day	2.2E-02
				Barium	8E+01	mg/kg	4.4E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	7.0E-02	mg/kg-day	1.8E-04
				Cadmium	5E+00	mg/kg	2.7E-07	mg/kg-day	N/A	N/A	N/A	7.9E-07	mg/kg-day	1.0E-03	mg/kg-day	7.9E-04
				Chromium III	2E+02	mg/kg	1.0E-05	mg/kg-day	N/A	N/A	N/A	3.1E-05	mg/kg-day	1.5E+00	mg/kg-day	2.0E-05
				Copper	2E+02	mg/kg	8.9E-06	mg/kg-day	N/A	N/A	N/A	2.6E-05	mg/kg-day	3.0E-02	mg/kg-day	8.7E-04
				Lead												
				Manganese	5E+02	mg/kg	2.6E-05	mg/kg-day	N/A	N/A	N/A	7.7E-05	mg/kg-day	7.0E-02	mg/kg-day	1.1E-03
				Mercury	7E-01	mg/kg	3.7E-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
				Nickel	3E+01	mg/kg	1.4E-06	mg/kg-day	N/A	N/A	N/A	4.1E-06	mg/kg-day	2.0E-02	mg/kg-day	2.0E-04
				Vanadium	5E+01	mg/kg	2.6E-06	mg/kg-day	N/A	N/A	N/A	7.5E-06	mg/kg-day	1.0E-03	mg/kg-day	7.5E-03
				Zinc	1E+03	mg/kg	7.4E-05	mg/kg-day	N/A	N/A	N/A	2.2E-04	mg/kg-day	3.0E-01	mg/kg-day	7.2E-04
			Exp. Route Total								4E-06					4E-02
			Dermal													
				Benzo(a)anthracene	1E+00	mg/kg	7.1E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.2E-08	2.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	5.4E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.0E-07	1.6E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	7.6E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.5E-08	2.2E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	6E-01	mg/kg	3.5E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	2.5E-09	1.0E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1E-01	mg/kg	6.0E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.4E-08	1.7E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	6E-01	mg/kg	3.4E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.5E-08	9.8E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	1E+00	mg/kg	5.4E-08	mg/kg-day	N/A	N/A	N/A	1.6E-07	mg/kg-day	2.0E-02	mg/kg-day	7.9E-06
				Aroclor 1260	1E-01	mg/kg	6.4E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.3E-08	1.9E-08	mg/kg-day	2.0E-05	mg/kg-day	9.4E-04
				Arsenic	9E+01	mg/kg	1.1E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.6E-06	3.2E-06	mg/kg-day	3.0E-04	mg/kg-day	1.1E-02
				Cadmium	5E+00	mg/kg	2.2E-08	mg/kg-day	N/A	N/A	N/A	6.3E-08	mg/kg-day	2.5E-05	mg/kg-day	2.5E-03
			Exp. Route Total								2E-06					1E-02
		Exposure Point Total									6E-06					5E-02

TABLE 3-7.1.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station 01	Ingestion													
				Benzo(a)anthracene	3E-01	mg/kg	1.3E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.6E-09	3.8E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	1.1E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	8.0E-08	3.2E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E-01	mg/kg	8.9E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.5E-09	2.6E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E-01	mg/kg	1.1E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	8.0E-10	3.2E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	6.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.6E-09	1.8E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	2.4E-08	mg/kg-day	N/A	N/A	N/A	7.1E-08	mg/kg-day	2.0E-02	mg/kg-day	3.5E-06
				Antimony	9E-01	mg/kg	4.8E-08	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	4.0E-04	mg/kg-day	3.4E-04
				Arsenic	6E+00	mg/kg	3.2E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.5E-07	9.4E-07	mg/kg-day	5.9E-04	mg/kg-day	1.6E-03
				Barium	1E+01	mg/kg	6.4E-07	mg/kg-day	N/A	N/A	N/A	1.9E-06	mg/kg-day	7.0E-02	mg/kg-day	2.7E-05
				Cadmium	2E-01	mg/kg	8.7E-09	mg/kg-day	N/A	N/A	N/A	2.5E-08	mg/kg-day	1.0E-03	mg/kg-day	2.5E-05
				Chromium III	1E+01	mg/kg	5.1E-07	mg/kg-day	N/A	N/A	N/A	1.5E-06	mg/kg-day	1.5E+00	mg/kg-day	1.0E-06
				Copper	2E+01	mg/kg	8.7E-07	mg/kg-day	N/A	N/A	N/A	2.5E-06	mg/kg-day	3.0E-02	mg/kg-day	8.4E-05
				Lead												
				Manganese	1E+02	mg/kg	5.4E-06	mg/kg-day	N/A	N/A	N/A	1.6E-05	mg/kg-day	7.0E-02	mg/kg-day	2.2E-04
				Nickel	7E+00	mg/kg	3.8E-07	mg/kg-day	N/A	N/A	N/A	1.1E-06	mg/kg-day	2.0E-02	mg/kg-day	5.5E-05
				Thallium	5E-01	mg/kg	2.7E-08	mg/kg-day	N/A	N/A	N/A	7.9E-08	mg/kg-day	8.0E-05	mg/kg-day	9.9E-04
				Vanadium	1E+01	mg/kg	6.1E-07	mg/kg-day	N/A	N/A	N/A	1.8E-06	mg/kg-day	1.0E-03	mg/kg-day	1.8E-03
				Zinc	2E+02	mg/kg	8.0E-06	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	3.0E-01	mg/kg-day	7.8E-05
			Exp. Route Total								4E-07					5E-03
			Dermal													
				Benzo(a)anthracene	3E-01	mg/kg	1.4E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.9E-09	4.0E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	1.1E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	8.3E-08	3.3E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E-01	mg/kg	9.2E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.7E-09	2.7E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E-01	mg/kg	1.1E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	8.3E-10	3.3E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	6.5E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.8E-09	1.9E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	2.5E-08	mg/kg-day	N/A	N/A	N/A	7.3E-08	mg/kg-day	2.0E-02	mg/kg-day	3.7E-06
				Arsenic	6E+00	mg/kg	7.7E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.2E-07	2.3E-07	mg/kg-day	3.0E-04	mg/kg-day	7.5E-04
				Cadmium	2E-01	mg/kg	6.9E-10	mg/kg-day	N/A	N/A	N/A	2.0E-09	mg/kg-day	2.5E-05	mg/kg-day	8.1E-05
			Exp. Route Total								2E-07					8E-04
		Exposure Point Total									6E-07					6E-03
	Exposure Medium Total										N/A					N/A

TABLE 3-7.1.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Soil	Surface Soil	Station NR	Ingestion													
				Arsenic	2E+02	mg/kg	3.5E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.2E-06	1.0E-05	mg/kg-day	3.0E-04	mg/kg-day	3.4E-02
				Cadmium	2E+00	mg/kg	3.7E-08	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	1.0E-03	mg/kg-day	1.1E-04
				Chromium VI	2E+02	mg/kg	3.0E-06	mg/kg-day	N/A	N/A	N/A	8.7E-06	mg/kg-day	3.0E-03	mg/kg-day	2.9E-03
				Copper	2E+02	mg/kg	3.0E-06	mg/kg-day	N/A	N/A	N/A	8.7E-06	mg/kg-day	3.0E-02	mg/kg-day	2.9E-04
				Manganese	8E+02	mg/kg	1.4E-05	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	3.5E-08	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	1.0E-04	mg/kg-day	1.0E-03
				Vanadium	3E+01	mg/kg	4.4E-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
				Zinc	5E+02	mg/kg	9.2E-06	mg/kg-day	N/A	N/A	N/A	2.7E-05	mg/kg-day	3.0E-01	mg/kg-day	8.9E-05
			Exp. Route Total								5E-06					4E-02
			Dermal													
				Arsenic	2E+02	mg/kg	8.4E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-06	2.4E-06	mg/kg-day	3.0E-04	mg/kg-day	8.1E-03
				Cadmium	2E+00	mg/kg	3.0E-09	mg/kg-day	N/A	N/A	N/A	8.7E-09	mg/kg-day	2.5E-05	mg/kg-day	3.5E-04
			Exp. Route Total								1E-06					8E-03
		Exposure Point Total									7E-06					5E-02
		Station WS/WSS	Ingestion													
				Arsenic	1E+01	mg/kg	7.0E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.0E-06	2.0E-06	mg/kg-day	3.0E-04	mg/kg-day	6.8E-03
				Cadmium	4E-01	mg/kg	2.6E-08	mg/kg-day	N/A	N/A	N/A	7.5E-08	mg/kg-day	1.0E-03	mg/kg-day	7.5E-05
				Chromium VI	2E+01	mg/kg	1.3E-06	mg/kg-day	N/A	N/A	N/A	3.7E-06	mg/kg-day	3.0E-03	mg/kg-day	1.2E-03
				Copper	3E+01	mg/kg	2.4E-06	mg/kg-day	N/A	N/A	N/A	6.9E-06	mg/kg-day	3.0E-02	mg/kg-day	2.3E-04
				Manganese	2E+02	mg/kg	1.3E-05	mg/kg-day	N/A	N/A	N/A	3.9E-05	mg/kg-day	7.0E-02	mg/kg-day	5.5E-04
				Mercury	1E-01	mg/kg	8.2E-09	mg/kg-day	N/A	N/A	N/A	2.4E-08	mg/kg-day	1.0E-04	mg/kg-day	2.4E-04
				Thallium	1E+00	mg/kg	8.3E-08	mg/kg-day	N/A	N/A	N/A	2.4E-07	mg/kg-day	8.0E-05	mg/kg-day	3.0E-03
				Vanadium	2E+01	mg/kg	1.7E-06	mg/kg-day	N/A	N/A	N/A	4.8E-06	mg/kg-day	1.0E-03	mg/kg-day	4.8E-03
				Zinc	7E+01	mg/kg	5.0E-06	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	3.0E-01	mg/kg-day	4.9E-05
			Exp. Route Total								1E-06					2E-02
			Dermal													
				Arsenic	1E+01	mg/kg	1.7E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.5E-07	4.9E-07	mg/kg-day	3.0E-04	mg/kg-day	1.6E-03
				Cadmium	4E-01	mg/kg	2.1E-09	mg/kg-day	N/A	N/A	N/A	6.0E-09	mg/kg-day	2.5E-05	mg/kg-day	2.4E-04
			Exp. Route Total								3E-07					2E-03
		Exposure Point Total									1E-06					2E-02

TABLE 3-7.1.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Soil (cont.)	Surface Soil (cont.)	Station CB-05	Ingestion													
				Arsenic	6E+01	mg/kg	4.2E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.3E-06	1.2E-05	mg/kg-day	3.0E-04	mg/kg-day	4.1E-02
				Cadmium	7E-01	mg/kg	4.8E-08	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	1.0E-03	mg/kg-day	1.4E-04
				Chromium VI	1E+02	mg/kg	9.6E-06	mg/kg-day	N/A	N/A	N/A	2.8E-05	mg/kg-day	3.0E-03	mg/kg-day	9.4E-03
				Copper	5E+01	mg/kg	3.5E-06	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	3.0E-02	mg/kg-day	3.4E-04
				Manganese	2E+02	mg/kg	1.6E-05	mg/kg-day	N/A	N/A	N/A	4.6E-05	mg/kg-day	7.0E-02	mg/kg-day	6.6E-04
				Mercury	3E-01	mg/kg	2.0E-08	mg/kg-day	N/A	N/A	N/A	5.9E-08	mg/kg-day	1.0E-04	mg/kg-day	5.9E-04
				Thallium	2E+00	mg/kg	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.3E-07	mg/kg-day	8.0E-05	mg/kg-day	4.2E-03
				Vanadium	3E+01	mg/kg	1.8E-06	mg/kg-day	N/A	N/A	N/A	5.3E-06	mg/kg-day	1.0E-03	mg/kg-day	5.3E-03
				Zinc	2E+02	mg/kg	1.2E-05	mg/kg-day	N/A	N/A	N/A	3.4E-05	mg/kg-day	3.0E-01	mg/kg-day	1.1E-04
			Exp. Route Total								6E-06					6E-02
			Dermal													
				Arsenic	6E+01	mg/kg	1.0E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.5E-06	2.9E-06	mg/kg-day	3.0E-04	mg/kg-day	9.7E-03
				Cadmium	7E-01	mg/kg	3.8E-09	mg/kg-day	N/A	N/A	N/A	1.1E-08	mg/kg-day	2.5E-05	mg/kg-day	4.4E-04
			Exp. Route Total								1E-06					1E-02
		Exposure Point Total									8E-06					7E-02
		Station DA	Ingestion													
				Arsenic	2E+02	mg/kg	1.0E-05	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.5E-05	3.0E-05	mg/kg-day	3.0E-04	mg/kg-day	9.9E-02
				Cadmium	5E+00	mg/kg	2.4E-07	mg/kg-day	N/A	N/A	N/A	7.0E-07	mg/kg-day	1.0E-03	mg/kg-day	7.0E-04
				Chromium VI	4E+02	mg/kg	2.0E-05	mg/kg-day	N/A	N/A	N/A	6.0E-05	mg/kg-day	3.0E-03	mg/kg-day	2.0E-02
				Copper	2E+02	mg/kg	1.3E-05	mg/kg-day	N/A	N/A	N/A	3.8E-05	mg/kg-day	3.0E-02	mg/kg-day	1.3E-03
				Manganese	3E+03	mg/kg	1.5E-04	mg/kg-day	N/A	N/A	N/A	4.4E-04	mg/kg-day	7.0E-02	mg/kg-day	6.2E-03
				Mercury	3E+00	mg/kg	1.8E-07	mg/kg-day	N/A	N/A	N/A	5.2E-07	mg/kg-day	1.0E-04	mg/kg-day	5.2E-03
				Thallium	3E+00	mg/kg	1.7E-07	mg/kg-day	N/A	N/A	N/A	5.1E-07	mg/kg-day	8.0E-05	mg/kg-day	6.4E-03
				Vanadium	4E+01	mg/kg	2.0E-06	mg/kg-day	N/A	N/A	N/A	5.8E-06	mg/kg-day	1.0E-03	mg/kg-day	5.8E-03
				Zinc	6E+02	mg/kg	3.1E-05	mg/kg-day	N/A	N/A	N/A	9.0E-05	mg/kg-day	3.0E-01	mg/kg-day	3.0E-04
			Exp. Route Total								2E-05					1E-01
			Dermal													
				Arsenic	2E+02	mg/kg	2.4E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.7E-06	7.1E-06	mg/kg-day	3.0E-04	mg/kg-day	2.4E-02
				Cadmium	5E+00	mg/kg	1.9E-08	mg/kg-day	N/A	N/A	N/A	5.6E-08	mg/kg-day	2.5E-05	mg/kg-day	2.2E-03
			Exp. Route Total								4E-06					3E-02
		Exposure Point Total									2E-05					2E-01

TABLE 3-7.1.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Soil (cont.)	Surface Soil (cont.)	Station KF	Ingestion													
				Arsenic	5E+01	mg/kg	2.4E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.6E-06	7.0E-06	mg/kg-day	3.0E-04	mg/kg-day	2.3E-02
				Cadmium	1E+00	mg/kg	7.4E-08	mg/kg-day	N/A	N/A	N/A	2.2E-07	mg/kg-day	1.0E-03	mg/kg-day	2.2E-04
				Chromium VI	1E+02	mg/kg	6.2E-06	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	3.0E-03	mg/kg-day	6.1E-03
				Copper	1E+02	mg/kg	5.7E-06	mg/kg-day	N/A	N/A	N/A	1.7E-05	mg/kg-day	3.0E-02	mg/kg-day	5.5E-04
				Manganese	8E+02	mg/kg	4.3E-05	mg/kg-day	N/A	N/A	N/A	1.3E-04	mg/kg-day	7.0E-02	mg/kg-day	1.8E-03
				Mercury	7E-01	mg/kg	3.6E-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	3E+01	mg/kg	1.5E-06	mg/kg-day	N/A	N/A	N/A	4.4E-06	mg/kg-day	1.0E-03	mg/kg-day	4.4E-03
				Zinc	4E+02	mg/kg	2.0E-05	mg/kg-day	N/A	N/A	N/A	6.0E-05	mg/kg-day	3.0E-01	mg/kg-day	2.0E-04
			Exp. Route Total								4E-06					4E-02
			Dermal													
				Arsenic	5E+01	mg/kg	5.7E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	8.6E-07	1.7E-06	mg/kg-day	3.0E-04	mg/kg-day	5.6E-03
				Cadmium	1E+00	mg/kg	5.9E-09	mg/kg-day	N/A	N/A	N/A	1.7E-08	mg/kg-day	2.5E-05	mg/kg-day	6.9E-04
			Exp. Route Total								9E-07					6E-03
		Exposure Point Total									4E-06					4E-02
		Station 07/DP	Ingestion													
				Arsenic	4E+01	mg/kg	2.3E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.5E-06	6.8E-06	mg/kg-day	3.0E-04	mg/kg-day	2.3E-02
				Cadmium	2E-01	mg/kg	9.9E-09	mg/kg-day	N/A	N/A	N/A	2.9E-08	mg/kg-day	1.0E-03	mg/kg-day	2.9E-05
				Chromium VI	1E+02	mg/kg	7.3E-06	mg/kg-day	N/A	N/A	N/A	2.1E-05	mg/kg-day	3.0E-03	mg/kg-day	7.1E-03
				Copper	1E+02	mg/kg	5.3E-06	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	3.0E-02	mg/kg-day	5.1E-04
				Manganese	3E+02	mg/kg	1.7E-05	mg/kg-day	N/A	N/A	N/A	5.0E-05	mg/kg-day	7.0E-02	mg/kg-day	7.2E-04
				Mercury	1E+00	mg/kg	5.0E-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	2E+00	mg/kg	9.8E-08	mg/kg-day	N/A	N/A	N/A	2.9E-07	mg/kg-day	8.0E-05	mg/kg-day	3.6E-03
				Vanadium	3E+01	mg/kg	1.6E-06	mg/kg-day	N/A	N/A	N/A	4.8E-06	mg/kg-day	1.0E-03	mg/kg-day	4.8E-03
				Zinc	2E+04	mg/kg	9.9E-04	mg/kg-day	N/A	N/A	N/A	2.9E-03	mg/kg-day	3.0E-01	mg/kg-day	9.7E-03
			Exp. Route Total								3E-06					5E-02
			Dermal													
				Arsenic	4E+01	mg/kg	5.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	8.4E-07	1.6E-06	mg/kg-day	3.0E-04	mg/kg-day	5.4E-03
				Cadmium	2E-01	mg/kg	7.9E-10	mg/kg-day	N/A	N/A	N/A	2.3E-09	mg/kg-day	2.5E-05	mg/kg-day	9.2E-05
			Exp. Route Total								8E-07					6E-03
		Exposure Point Total									4E-06					6E-02
	Exposure Medium Total										N/A					N/A

TABLE 3-7.1.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	Fish Fillet Tissue	Fillet, Reach 3	Ingestion													
				4,4'-DDD	7E-03	mg/kg	2.1E-07	mg/kg-day	2.4E-01	(mg/kg-day) $^{-1}$	5.1E-08	6.2E-07	mg/kg-day	2.0E-03	mg/kg-day	3.1E-04
				4,4'-DDE	2E-02	mg/kg	5.1E-07	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	1.7E-07	1.5E-06	mg/kg-day	3.0E-04	mg/kg-day	4.9E-03
				4,4'-DDT	3E-03	mg/kg	9.0E-08	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	3.0E-08	2.6E-07	mg/kg-day	5.0E-04	mg/kg-day	5.2E-04
				Aldrin	3E-04	mg/kg	1.0E-08	mg/kg-day	1.7E+01	(mg/kg-day) $^{-1}$	1.7E-07	3.0E-08	mg/kg-day	3.0E-05	mg/kg-day	9.9E-04
				alpha-Chlordane	6E-03	mg/kg	1.8E-07	mg/kg-day	3.5E-01	(mg/kg-day) $^{-1}$	6.4E-08	5.4E-07	mg/kg-day	5.0E-04	mg/kg-day	1.1E-03
				Aroclor-1254	2E-02	mg/kg	7.0E-07	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.4E-06	2.0E-06	mg/kg-day	2.0E-05	mg/kg-day	1.0E-01
				Aroclor-1260	8E-02	mg/kg	2.0E-06	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	4.0E-06	5.8E-06	mg/kg-day	2.0E-05	mg/kg-day	2.9E-01
				delta-BHC	6E-04	mg/kg	1.8E-08	mg/kg-day	N/A	N/A	N/A	5.4E-08	mg/kg-day	3.0E-04	mg/kg-day	1.8E-04
				Dieldrin	2E-03	mg/kg	7.1E-08	mg/kg-day	1.6E+01	(mg/kg-day) $^{-1}$	1.1E-06	2.1E-07	mg/kg-day	5.0E-05	mg/kg-day	4.1E-03
				Heptachlor epoxide	8E-04	mg/kg	2.7E-08	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	2.5E-07	7.9E-08	mg/kg-day	1.3E-05	mg/kg-day	6.0E-03
				Antimony	9E-02	mg/kg	3.0E-06	mg/kg-day	N/A	N/A	N/A	8.8E-06	mg/kg-day	4.0E-04	mg/kg-day	2.2E-02
				Lead												
				Mercury	4E-01	mg/kg	1.2E-05	mg/kg-day	N/A	N/A	N/A	3.4E-05	mg/kg-day	1.0E-04	mg/kg-day	3.4E-01
				Selenium	6E-01	mg/kg	1.8E-05	mg/kg-day	N/A	N/A	N/A	5.3E-05	mg/kg-day	5.0E-03	mg/kg-day	1.1E-02
			Exp. Route Total								7E-06					8E-01
		Exposure Point Total									7E-06					8E-01
		Fillet, Reaches 4 and 5	Ingestion													
				4,4'-DDD	2E-02	mg/kg	5.0E-07	mg/kg-day	2.4E-01	(mg/kg-day) $^{-1}$	1.2E-07	1.5E-06	mg/kg-day	2.0E-03	mg/kg-day	7.3E-04
				4,4'-DDE	9E-02	mg/kg	2.7E-06	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	9.3E-07	8.0E-06	mg/kg-day	3.0E-04	mg/kg-day	2.7E-02
				4,4'-DDT	8E-03	mg/kg	2.6E-07	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	8.7E-08	7.5E-07	mg/kg-day	5.0E-04	mg/kg-day	1.5E-03
				Aldrin	5E-04	mg/kg	1.7E-08	mg/kg-day	1.7E+01	(mg/kg-day) $^{-1}$	2.9E-07	4.9E-08	mg/kg-day	3.0E-05	mg/kg-day	1.6E-03
				alpha-Chlordane	3E-03	mg/kg	8.1E-08	mg/kg-day	3.5E-01	(mg/kg-day) $^{-1}$	2.8E-08	2.4E-07	mg/kg-day	5.0E-04	mg/kg-day	4.7E-04
				Aroclor-1254	9E-02	mg/kg	2.7E-06	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	5.4E-06	7.9E-06	mg/kg-day	2.0E-05	mg/kg-day	4.0E-01
				Aroclor-1260	2E-01	mg/kg	6.0E-06	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.2E-05	1.7E-05	mg/kg-day	2.0E-05	mg/kg-day	8.7E-01
				Dieldrin	2E-03	mg/kg	4.8E-08	mg/kg-day	1.6E+01	(mg/kg-day) $^{-1}$	7.6E-07	1.4E-07	mg/kg-day	5.0E-05	mg/kg-day	2.8E-03
				Antimony	8E-02	mg/kg	2.4E-06	mg/kg-day	N/A	N/A	N/A	7.1E-06	mg/kg-day	4.0E-04	mg/kg-day	1.8E-02
				Lead												
				Mercury	3E-01	mg/kg	9.6E-06	mg/kg-day	N/A	N/A	N/A	2.8E-05	mg/kg-day	1.0E-04	mg/kg-day	2.8E-01
				Selenium	7E-01	mg/kg	2.2E-05	mg/kg-day	N/A	N/A	N/A	6.3E-05	mg/kg-day	5.0E-03	mg/kg-day	1.3E-02
			Exp. Route Total								2E-05					2E+00
		Exposure Point Total									2E-05					2E+00

TABLE 3-7.1.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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 (cont.)	Fish Fillet Tissue (cont.)	Fillet, Reach 6	Ingestion													
				4,4'-DDD	2E-02	mg/kg	6.4E-07	mg/kg-day	2.4E-01	(mg/kg-day) $^{-1}$	1.5E-07	1.9E-06	mg/kg-day	2.0E-03	mg/kg-day	9.3E-04
				4,4'-DDE	8E-02	mg/kg	1.9E-06	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	6.3E-07	5.4E-06	mg/kg-day	3.0E-04	mg/kg-day	1.8E-02
				4,4'-DDT	5E-03	mg/kg	1.5E-07	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	5.1E-08	4.4E-07	mg/kg-day	5.0E-04	mg/kg-day	8.7E-04
				Aldrin	5E-04	mg/kg	1.7E-08	mg/kg-day	1.7E+01	(mg/kg-day) $^{-1}$	2.9E-07	4.9E-08	mg/kg-day	3.0E-05	mg/kg-day	1.6E-03
				alpha-Chlordane	8E-03	mg/kg	2.7E-07	mg/kg-day	3.5E-01	(mg/kg-day) $^{-1}$	9.3E-08	7.8E-07	mg/kg-day	5.0E-04	mg/kg-day	1.6E-03
				Aroclor-1248	8E-03	mg/kg	2.5E-07	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	5.0E-07	7.3E-07	mg/kg-day	2.0E-05	mg/kg-day	3.7E-02
				Aroclor-1254	1E-01	mg/kg	4.1E-06	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	8.1E-06	1.2E-05	mg/kg-day	2.0E-05	mg/kg-day	5.9E-01
				Aroclor-1260	8E-02	mg/kg	2.5E-06	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	5.0E-06	7.3E-06	mg/kg-day	2.0E-05	mg/kg-day	3.6E-01
				Dieldrin	2E-03	mg/kg	7.3E-08	mg/kg-day	1.6E+01	(mg/kg-day) $^{-1}$	1.2E-06	2.1E-07	mg/kg-day	5.0E-05	mg/kg-day	4.3E-03
				Heptachlor epoxide	5E-04	mg/kg	1.7E-08	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	1.5E-07	4.9E-08	mg/kg-day	1.3E-05	mg/kg-day	3.8E-03
				Arsenic	2E-01	mg/kg	5.0E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	7.5E-06	1.5E-05	mg/kg-day	3.0E-04	mg/kg-day	4.9E-02
				Lead												
				Mercury	2E-01	mg/kg	6.4E-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	6E-01	mg/kg	2.0E-05	mg/kg-day	N/A	N/A	N/A	5.8E-05	mg/kg-day	5.0E-03	mg/kg-day	1.2E-02
			Exp. Route Total								2E-05					1E+00
		Exposure Point Total									2E-05					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 3-7.1.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	Surface Water	Station NR (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	5.3E-11	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	4.9E-10	5.3E-10	mg/kg-day	1.3E-05	mg/kg-day	4.1E-05
				Arsenic	5E+01	ug/L	1.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.0E-08	1.3E-07	mg/kg-day	3.0E-04	mg/kg-day	4.5E-04
				Cadmium	4E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	1.2E-09	mg/kg-day	2.5E-05	mg/kg-day	5.0E-05
				Chromium VI	6E+01	ug/L	3.4E-08	mg/kg-day	N/A	N/A	N/A	3.4E-07	mg/kg-day	7.5E-05	mg/kg-day	4.6E-03
				Lead												
				Manganese	6E+02	ug/L	1.7E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	2.8E-03	mg/kg-day	6.0E-04
				Mercury	6E-01	ug/L	1.8E-10	mg/kg-day	N/A	N/A	N/A	1.8E-09	mg/kg-day	2.1E-05	mg/kg-day	8.4E-05
			Exp. Route Total								2E-08					6E-03
		Exposure Point Total									2E-08					6E-03
		Station 14 (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	5.3E-11	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	4.9E-10	5.3E-10	mg/kg-day	1.3E-05	mg/kg-day	4.1E-05
				Arsenic	5E+01	ug/L	1.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.0E-08	1.3E-07	mg/kg-day	3.0E-04	mg/kg-day	4.5E-04
				Cadmium	4E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	1.2E-09	mg/kg-day	2.5E-05	mg/kg-day	5.0E-05
				Chromium VI	6E+01	ug/L	3.4E-08	mg/kg-day	N/A	N/A	N/A	3.4E-07	mg/kg-day	7.5E-05	mg/kg-day	4.6E-03
				Lead												
				Manganese	6E+02	ug/L	1.7E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	2.8E-03	mg/kg-day	6.0E-04
				Mercury	6E-01	ug/L	1.8E-10	mg/kg-day	N/A	N/A	N/A	1.8E-09	mg/kg-day	2.1E-05	mg/kg-day	8.4E-05
			Exp. Route Total								2E-08					6E-03
		Exposure Point Total									2E-08					6E-03
		Station 22/TT-22 (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	5.3E-11	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	4.9E-10	5.3E-10	mg/kg-day	1.3E-05	mg/kg-day	4.1E-05
				Arsenic	5E+01	ug/L	1.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.0E-08	1.3E-07	mg/kg-day	3.0E-04	mg/kg-day	4.5E-04
				Cadmium	4E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	1.2E-09	mg/kg-day	2.5E-05	mg/kg-day	5.0E-05
				Chromium VI	6E+01	ug/L	3.4E-08	mg/kg-day	N/A	N/A	N/A	3.4E-07	mg/kg-day	7.5E-05	mg/kg-day	4.6E-03
				Lead												
				Manganese	6E+02	ug/L	1.7E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	2.8E-03	mg/kg-day	6.0E-04
				Mercury	6E-01	ug/L	1.8E-10	mg/kg-day	N/A	N/A	N/A	1.8E-09	mg/kg-day	2.1E-05	mg/kg-day	8.4E-05
			Exp. Route Total								2E-08					6E-03
		Exposure Point Total									2E-08					6E-03

TABLE 3-7.1.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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 (cont.)	Surface Water (cont.)	Station WH (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	5.3E-11	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	4.9E-10	5.3E-10	mg/kg-day	1.3E-05	mg/kg-day	4.1E-05
				Arsenic	5E+01	ug/L	1.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.0E-08	1.3E-07	mg/kg-day	3.0E-04	mg/kg-day	4.5E-04
				Cadmium	4E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	1.2E-09	mg/kg-day	2.5E-05	mg/kg-day	5.0E-05
				Chromium VI	6E+01	ug/L	3.4E-08	mg/kg-day	N/A	N/A	N/A	3.4E-07	mg/kg-day	7.5E-05	mg/kg-day	4.6E-03
				Lead												
				Manganese	6E+02	ug/L	1.7E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	2.8E-03	mg/kg-day	6.0E-04
				Mercury	6E-01	ug/L	1.8E-10	mg/kg-day	N/A	N/A	N/A	1.8E-09	mg/kg-day	2.1E-05	mg/kg-day	8.4E-05
			Exp. Route Total								2E-08					6E-03
		Exposure Point Total									2E-08					6E-03
		Station WG (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	5.3E-11	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	4.9E-10	5.3E-10	mg/kg-day	1.3E-05	mg/kg-day	4.1E-05
				Arsenic	5E+01	ug/L	1.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.0E-08	1.3E-07	mg/kg-day	3.0E-04	mg/kg-day	4.5E-04
				Cadmium	4E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	1.2E-09	mg/kg-day	2.5E-05	mg/kg-day	5.0E-05
				Chromium VI	6E+01	ug/L	3.4E-08	mg/kg-day	N/A	N/A	N/A	3.4E-07	mg/kg-day	7.5E-05	mg/kg-day	4.6E-03
				Lead												
				Manganese	6E+02	ug/L	1.7E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	2.8E-03	mg/kg-day	6.0E-04
				Mercury	6E-01	ug/L	1.8E-10	mg/kg-day	N/A	N/A	N/A	1.8E-09	mg/kg-day	2.1E-05	mg/kg-day	8.4E-05
			Exp. Route Total								2E-08					6E-03
		Exposure Point Total									2E-08					6E-03
		Station WS/WSS (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	1.6E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	1.5E-09	1.6E-09	mg/kg-day	1.3E-05	mg/kg-day	1.2E-04
				Arsenic	5E+01	ug/L	4.0E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.0E-08	4.0E-07	mg/kg-day	3.0E-04	mg/kg-day	1.3E-03
				Cadmium	4E-01	ug/L	3.7E-10	mg/kg-day	N/A	N/A	N/A	3.7E-09	mg/kg-day	2.5E-05	mg/kg-day	1.5E-04
				Chromium VI	6E+01	ug/L	1.0E-07	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	7.5E-05	mg/kg-day	1.4E-02
				Lead												
				Manganese	6E+02	ug/L	5.0E-07	mg/kg-day	N/A	N/A	N/A	5.0E-06	mg/kg-day	2.8E-03	mg/kg-day	1.8E-03
				Mercury	6E-01	ug/L	5.3E-10	mg/kg-day	N/A	N/A	N/A	5.3E-09	mg/kg-day	2.1E-05	mg/kg-day	2.5E-04
			Exp. Route Total								6E-08					2E-02
		Exposure Point Total									6E-08					2E-02

TABLE 3-7.1.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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 (cont.)	Surface Water (cont.)	Station TT-30 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	2.1E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	8.4E-09	2.1E-07	mg/kg-day	3.0E-04	mg/kg-day	7.0E-04
				Arsenic	2E+01	ug/L	4.5E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.8E-09	4.5E-08	mg/kg-day	3.0E-04	mg/kg-day	1.5E-04
				Cadmium	2E-01	ug/L	6.7E-11	mg/kg-day	N/A	N/A	N/A	6.7E-10	mg/kg-day	2.5E-05	mg/kg-day	2.7E-05
				Chromium VI	8E+00	ug/L	4.8E-09	mg/kg-day	N/A	N/A	N/A	4.8E-08	mg/kg-day	7.5E-05	mg/kg-day	6.3E-04
				Lead												
				Manganese	7E+02	ug/L	2.1E-07	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	2.8E-03	mg/kg-day	7.4E-04
				Mercury	1E-01	ug/L	3.6E-11	mg/kg-day	N/A	N/A	N/A	3.6E-10	mg/kg-day	2.1E-05	mg/kg-day	1.7E-05
			Exp. Route Total								2E-08					2E-03
		Exposure Point Total									2E-08					2E-03
		Station CB-01 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	6.3E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	2.5E-08	6.3E-07	mg/kg-day	3.0E-04	mg/kg-day	2.1E-03
				Arsenic	2E+01	ug/L	1.4E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.0E-08	1.4E-07	mg/kg-day	3.0E-04	mg/kg-day	4.5E-04
				Cadmium	2E-01	ug/L	2.0E-10	mg/kg-day	N/A	N/A	N/A	2.0E-09	mg/kg-day	2.5E-05	mg/kg-day	8.0E-05
				Chromium VI	8E+00	ug/L	1.4E-08	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	7.5E-05	mg/kg-day	1.9E-03
				Lead												
				Manganese	7E+02	ug/L	6.2E-07	mg/kg-day	N/A	N/A	N/A	6.2E-06	mg/kg-day	2.8E-03	mg/kg-day	2.2E-03
				Mercury	1E-01	ug/L	1.1E-10	mg/kg-day	N/A	N/A	N/A	1.1E-09	mg/kg-day	2.1E-05	mg/kg-day	5.1E-05
			Exp. Route Total								5E-08					7E-03
		Exposure Point Total									5E-08					7E-03
		Station CB-02 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	6.3E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	2.5E-08	6.3E-07	mg/kg-day	3.0E-04	mg/kg-day	2.1E-03
				Arsenic	2E+01	ug/L	1.4E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.0E-08	1.4E-07	mg/kg-day	3.0E-04	mg/kg-day	4.5E-04
				Cadmium	2E-01	ug/L	2.0E-10	mg/kg-day	N/A	N/A	N/A	2.0E-09	mg/kg-day	2.5E-05	mg/kg-day	8.0E-05
				Chromium VI	8E+00	ug/L	1.4E-08	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	7.5E-05	mg/kg-day	1.9E-03
				Lead												
				Manganese	7E+02	ug/L	6.2E-07	mg/kg-day	N/A	N/A	N/A	6.2E-06	mg/kg-day	2.8E-03	mg/kg-day	2.2E-03
				Mercury	1E-01	ug/L	1.1E-10	mg/kg-day	N/A	N/A	N/A	1.1E-09	mg/kg-day	2.1E-05	mg/kg-day	5.1E-05
			Exp. Route Total								5E-08					7E-03
		Exposure Point Total									5E-08					7E-03

TABLE 3-7.1.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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 (cont.)	Surface Water (cont.)	Station CB-03 (Upper Reach 2)	Dermal													
				Trichloroethene	2E+00	ug/L	6.3E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	2.5E-08	6.3E-07	mg/kg-day	3.0E-04	mg/kg-day	2.1E-03
				Arsenic	2E+01	ug/L	1.4E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.0E-08	1.4E-07	mg/kg-day	3.0E-04	mg/kg-day	4.5E-04
				Cadmium	2E-01	ug/L	2.0E-10	mg/kg-day	N/A	N/A	N/A	2.0E-09	mg/kg-day	2.5E-05	mg/kg-day	8.0E-05
				Chromium VI	8E+00	ug/L	1.4E-08	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	7.5E-05	mg/kg-day	1.9E-03
				Lead												
				Manganese	7E+02	ug/L	6.2E-07	mg/kg-day	N/A	N/A	N/A	6.2E-06	mg/kg-day	2.8E-03	mg/kg-day	2.2E-03
				Mercury	1E-01	ug/L	1.1E-10	mg/kg-day	N/A	N/A	N/A	1.1E-09	mg/kg-day	2.1E-05	mg/kg-day	5.1E-05
			Exp. Route Total								5E-08					7E-03
		Exposure Point Total									5E-08					7E-03
		Station CB-04 (Upper Reach 2)	Dermal													
				Trichloroethene	2E+00	ug/L	6.3E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	2.5E-08	6.3E-07	mg/kg-day	3.0E-04	mg/kg-day	2.1E-03
				Arsenic	2E+01	ug/L	1.4E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.0E-08	1.4E-07	mg/kg-day	3.0E-04	mg/kg-day	4.5E-04
				Cadmium	2E-01	ug/L	2.0E-10	mg/kg-day	N/A	N/A	N/A	2.0E-09	mg/kg-day	2.5E-05	mg/kg-day	8.0E-05
				Chromium VI	8E+00	ug/L	1.4E-08	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	7.5E-05	mg/kg-day	1.9E-03
				Lead												
				Manganese	7E+02	ug/L	6.2E-07	mg/kg-day	N/A	N/A	N/A	6.2E-06	mg/kg-day	2.8E-03	mg/kg-day	2.2E-03
				Mercury	1E-01	ug/L	1.1E-10	mg/kg-day	N/A	N/A	N/A	1.1E-09	mg/kg-day	2.1E-05	mg/kg-day	5.1E-05
			Exp. Route Total								5E-08					7E-03
		Exposure Point Total									5E-08					7E-03
		Station CB-06 (Upper Reach 2)	Dermal													
				Trichloroethene	2E+00	ug/L	6.3E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	2.5E-08	6.3E-07	mg/kg-day	3.0E-04	mg/kg-day	2.1E-03
				Arsenic	2E+01	ug/L	1.4E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.0E-08	1.4E-07	mg/kg-day	3.0E-04	mg/kg-day	4.5E-04
				Cadmium	2E-01	ug/L	2.0E-10	mg/kg-day	N/A	N/A	N/A	2.0E-09	mg/kg-day	2.5E-05	mg/kg-day	8.0E-05
				Chromium VI	8E+00	ug/L	1.4E-08	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	7.5E-05	mg/kg-day	1.9E-03
				Lead												
				Manganese	7E+02	ug/L	6.2E-07	mg/kg-day	N/A	N/A	N/A	6.2E-06	mg/kg-day	2.8E-03	mg/kg-day	2.2E-03
				Mercury	1E-01	ug/L	1.1E-10	mg/kg-day	N/A	N/A	N/A	1.1E-09	mg/kg-day	2.1E-05	mg/kg-day	5.1E-05
			Exp. Route Total								5E-08					7E-03
		Exposure Point Total									5E-08					7E-03

TABLE 3-7.1.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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 (cont.)	Surface Water (cont.)	Station CB-07 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	2.1E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	8.4E-09	2.1E-07	mg/kg-day	3.0E-04	mg/kg-day	7.0E-04
				Arsenic	2E+01	ug/L	4.5E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.8E-09	4.5E-08	mg/kg-day	3.0E-04	mg/kg-day	1.5E-04
				Cadmium	2E-01	ug/L	6.7E-11	mg/kg-day	N/A	N/A	N/A	6.7E-10	mg/kg-day	2.5E-05	mg/kg-day	2.7E-05
				Chromium VI	8E+00	ug/L	4.8E-09	mg/kg-day	N/A	N/A	N/A	4.8E-08	mg/kg-day	7.5E-05	mg/kg-day	6.3E-04
				Lead												
				Manganese	7E+02	ug/L	2.1E-07	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	2.8E-03	mg/kg-day	7.4E-04
				Mercury	1E-01	ug/L	3.6E-11	mg/kg-day	N/A	N/A	N/A	3.6E-10	mg/kg-day	2.1E-05	mg/kg-day	1.7E-05
			Exp. Route Total								2E-08					2E-03
		Exposure Point Total									2E-08					2E-03
		Station 16/TT-33 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	2.1E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	8.4E-09	2.1E-07	mg/kg-day	3.0E-04	mg/kg-day	7.0E-04
				Arsenic	2E+01	ug/L	4.5E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.8E-09	4.5E-08	mg/kg-day	3.0E-04	mg/kg-day	1.5E-04
				Cadmium	2E-01	ug/L	6.7E-11	mg/kg-day	N/A	N/A	N/A	6.7E-10	mg/kg-day	2.5E-05	mg/kg-day	2.7E-05
				Chromium VI	8E+00	ug/L	4.8E-09	mg/kg-day	N/A	N/A	N/A	4.8E-08	mg/kg-day	7.5E-05	mg/kg-day	6.3E-04
				Lead												
				Manganese	7E+02	ug/L	2.1E-07	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	2.8E-03	mg/kg-day	7.4E-04
				Mercury	1E-01	ug/L	3.6E-11	mg/kg-day	N/A	N/A	N/A	3.6E-10	mg/kg-day	2.1E-05	mg/kg-day	1.7E-05
			Exp. Route Total								2E-08					2E-03
		Exposure Point Total									2E-08					2E-03
		Station 09 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	2.1E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	8.4E-09	2.1E-07	mg/kg-day	3.0E-04	mg/kg-day	7.0E-04
				Arsenic	2E+01	ug/L	4.5E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.8E-09	4.5E-08	mg/kg-day	3.0E-04	mg/kg-day	1.5E-04
				Cadmium	2E-01	ug/L	6.7E-11	mg/kg-day	N/A	N/A	N/A	6.7E-10	mg/kg-day	2.5E-05	mg/kg-day	2.7E-05
				Chromium VI	8E+00	ug/L	4.8E-09	mg/kg-day	N/A	N/A	N/A	4.8E-08	mg/kg-day	7.5E-05	mg/kg-day	6.3E-04
				Lead												
				Manganese	7E+02	ug/L	2.1E-07	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	2.8E-03	mg/kg-day	7.4E-04
				Mercury	1E-01	ug/L	3.6E-11	mg/kg-day	N/A	N/A	N/A	3.6E-10	mg/kg-day	2.1E-05	mg/kg-day	1.7E-05
			Exp. Route Total								2E-08					2E-03
		Exposure Point Total									2E-08					2E-03

TABLE 3-7.1.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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 (cont.)	Surface Water (cont.)	Station DA (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	2.1E-08	mg/kg-day	4.0E-01	(mg/kg-day)$^{-1}$	8.4E-09	2.1E-07	mg/kg-day	3.0E-04	mg/kg-day	7.0E-04
				Arsenic	2E+01	ug/L	4.5E-09	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	6.8E-09	4.5E-08	mg/kg-day	3.0E-04	mg/kg-day	1.5E-04
				Cadmium	2E-01	ug/L	6.7E-11	mg/kg-day	N/A	N/A	N/A	6.7E-10	mg/kg-day	2.5E-05	mg/kg-day	2.7E-05
				Chromium VI	8E+00	ug/L	4.8E-09	mg/kg-day	N/A	N/A	N/A	4.8E-08	mg/kg-day	7.5E-05	mg/kg-day	6.3E-04
				Lead												
				Manganese	7E+02	ug/L	2.1E-07	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	2.8E-03	mg/kg-day	7.4E-04
				Mercury	1E-01	ug/L	3.6E-11	mg/kg-day	N/A	N/A	N/A	3.6E-10	mg/kg-day	2.1E-05	mg/kg-day	1.7E-05
			Exp. Route Total								2E-08					2E-03
		Exposure Point Total									2E-08					2E-03
		Station AM (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	2.1E-08	mg/kg-day	4.0E-01	(mg/kg-day)$^{-1}$	8.4E-09	2.1E-07	mg/kg-day	3.0E-04	mg/kg-day	7.0E-04
				Arsenic	2E+01	ug/L	4.5E-09	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	6.8E-09	4.5E-08	mg/kg-day	3.0E-04	mg/kg-day	1.5E-04
				Cadmium	2E-01	ug/L	6.7E-11	mg/kg-day	N/A	N/A	N/A	6.7E-10	mg/kg-day	2.5E-05	mg/kg-day	2.7E-05
				Chromium VI	8E+00	ug/L	4.8E-09	mg/kg-day	N/A	N/A	N/A	4.8E-08	mg/kg-day	7.5E-05	mg/kg-day	6.3E-04
				Lead												
				Manganese	7E+02	ug/L	2.1E-07	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	2.8E-03	mg/kg-day	7.4E-04
				Mercury	1E-01	ug/L	3.6E-11	mg/kg-day	N/A	N/A	N/A	3.6E-10	mg/kg-day	2.1E-05	mg/kg-day	1.7E-05
			Exp. Route Total								2E-08					2E-03
		Exposure Point Total									2E-08					2E-03
		Station KF (Lower Reach 2)	Dermal	Arsenic	7E+00	ug/L	2.0E-09	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	3.0E-09	2.0E-08	mg/kg-day	3.0E-04	mg/kg-day	6.6E-05
				Chromium VI	2E+00	ug/L	1.3E-09	mg/kg-day	N/A	N/A	N/A	1.3E-08	mg/kg-day	7.5E-05	mg/kg-day	1.7E-04
				Manganese	4E+02	ug/L	1.0E-07	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	2.8E-03	mg/kg-day	3.7E-04
			Exp. Route Total								3E-09					6E-04
		Exposure Point Total									3E-09					6E-04
		Station 08 (Lower Reach 2)	Dermal	Arsenic	7E+00	ug/L	2.0E-09	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	3.0E-09	2.0E-08	mg/kg-day	3.0E-04	mg/kg-day	6.6E-05
				Chromium VI	2E+00	ug/L	1.3E-09	mg/kg-day	N/A	N/A	N/A	1.3E-08	mg/kg-day	7.5E-05	mg/kg-day	1.7E-04
				Manganese	4E+02	ug/L	1.0E-07	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	2.8E-03	mg/kg-day	3.7E-04
			Exp. Route Total								3E-09					6E-04
		Exposure Point Total									3E-09					6E-04

TABLE 3-7.1.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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 (cont.)	Surface Water (cont.)	Station 07/DP	Dermal													
		(Reach 3)		Chromium VI	3E+00	ug/L	1.8E-09	mg/kg-day	N/A	N/A	N/A	1.8E-08	mg/kg-day	7.5E-05	mg/kg-day	2.4E-04
				Lead												
				Manganese	6E+02	ug/L	1.7E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	2.8E-03	mg/kg-day	6.1E-04
				Mercury	2E-01	ug/L	6.4E-11	mg/kg-day	N/A	N/A	N/A	6.4E-10	mg/kg-day	2.1E-05	mg/kg-day	3.0E-05
			Exp. Route Total								N/A					9E-04
		Exposure Point Total									N/A					9E-04
		Station LP	Dermal													
		(Reach 3)		Chromium VI	3E+00	ug/L	1.8E-09	mg/kg-day	N/A	N/A	N/A	1.8E-08	mg/kg-day	7.5E-05	mg/kg-day	2.4E-04
				Lead												
				Manganese	6E+02	ug/L	1.7E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	2.8E-03	mg/kg-day	6.1E-04
				Mercury	2E-01	ug/L	6.4E-11	mg/kg-day	N/A	N/A	N/A	6.4E-10	mg/kg-day	2.1E-05	mg/kg-day	3.0E-05
			Exp. Route Total								N/A					9E-04
		Exposure Point Total									N/A					9E-04
		Station AS	Dermal													
		(Reach 3)		Chromium VI	3E+00	ug/L	1.8E-09	mg/kg-day	N/A	N/A	N/A	1.8E-08	mg/kg-day	7.5E-05	mg/kg-day	2.4E-04
				Lead												
				Manganese	6E+02	ug/L	1.7E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	2.8E-03	mg/kg-day	6.1E-04
				Mercury	2E-01	ug/L	6.4E-11	mg/kg-day	N/A	N/A	N/A	6.4E-10	mg/kg-day	2.1E-05	mg/kg-day	3.0E-05
			Exp. Route Total								N/A					9E-04
		Exposure Point Total									N/A					9E-04
		Station 06	Dermal													
		(Reach 4)		Chromium VI	4E+00	ug/L	2.5E-09	mg/kg-day	N/A	N/A	N/A	2.5E-08	mg/kg-day	7.5E-05	mg/kg-day	3.3E-04
				Lead												
				Manganese	5E+02	ug/L	1.5E-07	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								N/A					9E-04
		Exposure Point Total									N/A					9E-04
		Station 05	Dermal													
		(Reach 5)		Chloroform	1E+00	ug/L	5.4E-09	mg/kg-day	N/A	N/A	N/A	5.4E-08	mg/kg-day	1.0E-02	mg/kg-day	5.4E-06
				Tetrachloroethene	2E+00	ug/L	7.1E-08	mg/kg-day	5.4E-01	(mg/kg-day)$^{-1}$	3.8E-08	7.1E-07	mg/kg-day	1.0E-02	mg/kg-day	7.1E-05
				Chromium VI	9E-01	ug/L	4.9E-10	mg/kg-day	N/A	N/A	N/A	4.9E-09	mg/kg-day	7.5E-05	mg/kg-day	6.6E-05
				Manganese	3E+02	ug/L	9.3E-08	mg/kg-day	N/A	N/A	N/A	9.3E-07	mg/kg-day	2.8E-03	mg/kg-day	3.3E-04
			Exp. Route Total								4E-08					5E-04
		Exposure Point Total									4E-08					5E-04

TABLE 3-7.1.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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 (cont.)	Surface Water (cont.)	Station 04 (Upper Reach 6)	Dermal	Arsenic	4E+00	ug/L	1.1E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.6E-09	1.1E-08	mg/kg-day	3.0E-04	mg/kg-day	3.6E-05
				Chromium VI	2E+00	ug/L	1.0E-09	mg/kg-day	N/A	N/A	N/A	1.0E-08	mg/kg-day	7.5E-05	mg/kg-day	1.3E-04
				Lead												
				Manganese	2E+02	ug/L	6.1E-08	mg/kg-day	N/A	N/A	N/A	6.1E-07	mg/kg-day	2.8E-03	mg/kg-day	2.2E-04
				Mercury	7E-02	ug/L	2.0E-11	mg/kg-day	N/A	N/A	N/A	2.0E-10	mg/kg-day	2.1E-05	mg/kg-day	9.5E-06
			Exp. Route Total								2E-09					4E-04
		Exposure Point Total									2E-09					4E-04
		Station 03 (Upper Reach 6)	Dermal	Arsenic	4E+00	ug/L	1.1E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.6E-09	1.1E-08	mg/kg-day	3.0E-04	mg/kg-day	3.6E-05
				Chromium VI	2E+00	ug/L	1.0E-09	mg/kg-day	N/A	N/A	N/A	1.0E-08	mg/kg-day	7.5E-05	mg/kg-day	1.3E-04
				Lead												
				Manganese	2E+02	ug/L	6.1E-08	mg/kg-day	N/A	N/A	N/A	6.1E-07	mg/kg-day	2.8E-03	mg/kg-day	2.2E-04
				Mercury	7E-02	ug/L	2.0E-11	mg/kg-day	N/A	N/A	N/A	2.0E-10	mg/kg-day	2.1E-05	mg/kg-day	9.5E-06
			Exp. Route Total								2E-09					4E-04
		Exposure Point Total									2E-09					4E-04
		Station 02 (Upper Reach 6)	Dermal	Arsenic	4E+00	ug/L	1.1E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.6E-09	1.1E-08	mg/kg-day	3.0E-04	mg/kg-day	3.6E-05
				Chromium VI	2E+00	ug/L	1.0E-09	mg/kg-day	N/A	N/A	N/A	1.0E-08	mg/kg-day	7.5E-05	mg/kg-day	1.3E-04
				Lead												
				Manganese	2E+02	ug/L	6.1E-08	mg/kg-day	N/A	N/A	N/A	6.1E-07	mg/kg-day	2.8E-03	mg/kg-day	2.2E-04
				Mercury	7E-02	ug/L	2.0E-11	mg/kg-day	N/A	N/A	N/A	2.0E-10	mg/kg-day	2.1E-05	mg/kg-day	9.5E-06
			Exp. Route Total								2E-09					4E-04
		Exposure Point Total									2E-09					4E-04

TABLE 3-7.1.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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 (cont.)	Surface Water (cont.)	Station 01 (Lower Reach 6)	Ingestion													
				Arsenic	3E+00	ug/L	1.5E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.3E-09	1.5E-08	mg/kg-day	3.0E-04	mg/kg-day	5.1E-05
				Chromium VI	2E+00	ug/L	7.3E-10	mg/kg-day	N/A	N/A	N/A	7.3E-09	mg/kg-day	3.0E-03	mg/kg-day	2.4E-06
				Lead												
				Manganese	7E+01	ug/L	3.5E-08	mg/kg-day	N/A	N/A	N/A	3.5E-07	mg/kg-day	7.0E-02	mg/kg-day	5.0E-06
				Mercury	4E-02	ug/L	2.0E-11	mg/kg-day	N/A	N/A	N/A	2.0E-10	mg/kg-day	3.0E-04	mg/kg-day	6.5E-07
			Exp. Route Total								2E-09					6E-05
			Dermal													
				Arsenic	3E+00	ug/L	5.5E-10	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	8.2E-10	5.5E-09	mg/kg-day	3.0E-04	mg/kg-day	1.8E-05
				Chromium VI	2E+00	ug/L	5.3E-10	mg/kg-day	N/A	N/A	N/A	5.3E-09	mg/kg-day	7.5E-05	mg/kg-day	7.0E-05
				Lead												
				Manganese	7E+01	ug/L	1.2E-08	mg/kg-day	N/A	N/A	N/A	1.2E-07	mg/kg-day	2.8E-03	mg/kg-day	4.5E-05
				Mercury	4E-02	ug/L	7.0E-12	mg/kg-day	N/A	N/A	N/A	7.0E-11	mg/kg-day	2.1E-05	mg/kg-day	3.4E-06
			Exp. Route Total								6E-10					1E-04
		Exposure Point Total									3E-09					2E-04
	Exposure Medium Total										N/A					N/A
Sediment	Sediment	Station NR	Ingestion													
				Arsenic	2E+02	mg/kg	5.5E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	4.2E-07	5.5E-06	mg/kg-day	5.9E-04	mg/kg-day	9.2E-03
				Barium	6E+01	mg/kg	1.4E-07	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	7.0E-02	mg/kg-day	2.0E-05
				Cadmium	2E+00	mg/kg	5.6E-09	mg/kg-day	N/A	N/A	N/A	5.6E-08	mg/kg-day	1.0E-03	mg/kg-day	5.6E-05
				Chromium III	3E+02	mg/kg	6.4E-07	mg/kg-day	N/A	N/A	N/A	6.4E-06	mg/kg-day	1.5E+00	mg/kg-day	4.3E-06
				Copper	3E+02	mg/kg	7.7E-07	mg/kg-day	N/A	N/A	N/A	7.7E-06	mg/kg-day	3.0E-02	mg/kg-day	2.6E-04
				Lead												
				Manganese	2E+02	mg/kg	6.3E-07	mg/kg-day	N/A	N/A	N/A	6.3E-06	mg/kg-day	7.0E-02	mg/kg-day	9.0E-05
				Mercury	4E+00	mg/kg	1.1E-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
				Nickel	1E+01	mg/kg	3.6E-08	mg/kg-day	N/A	N/A	N/A	3.6E-07	mg/kg-day	2.0E-02	mg/kg-day	1.8E-05
				Vanadium	3E+01	mg/kg	7.8E-08	mg/kg-day	N/A	N/A	N/A	7.8E-07	mg/kg-day	1.0E-03	mg/kg-day	7.8E-04
				Zinc	5E+02	mg/kg	1.2E-06	mg/kg-day	N/A	N/A	N/A	1.2E-05	mg/kg-day	3.0E-01	mg/kg-day	4.1E-05
			Exp. Route Total								4E-07					1E-02
			Dermal													
				Arsenic	2E+02	mg/kg	2.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.9E-07	2.6E-06	mg/kg-day	3.0E-04	mg/kg-day	8.7E-03
				Cadmium	2E+00	mg/kg	8.9E-10	mg/kg-day	N/A	N/A	N/A	8.9E-09	mg/kg-day	2.5E-05	mg/kg-day	3.6E-04
			Exp. Route Total								4E-07					9E-03
		Exposure Point Total									8E-07					2E-02

TABLE 3-7.1.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station 14	Ingestion													
				Benzo(a)anthracene	1E+00	mg/kg	2.5E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.8E-09	2.5E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	9E-01	mg/kg	2.3E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.7E-08	2.3E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	3.7E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.7E-09	3.7E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	2.8E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	2.0E-10	2.8E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E+00	mg/kg	3.8E-09	mg/kg-day	N/A	N/A	N/A	3.8E-08	mg/kg-day	2.0E-02	mg/kg-day	1.9E-06
				Antimony	9E-01	mg/kg	2.3E-09	mg/kg-day	N/A	N/A	N/A	2.3E-08	mg/kg-day	4.0E-04	mg/kg-day	5.8E-05
				Arsenic	6E+01	mg/kg	1.6E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.2E-07	1.6E-06	mg/kg-day	5.9E-04	mg/kg-day	2.6E-03
				Barium	2E+01	mg/kg	4.0E-08	mg/kg-day	N/A	N/A	N/A	4.0E-07	mg/kg-day	7.0E-02	mg/kg-day	5.8E-06
				Cadmium	6E-01	mg/kg	1.6E-09	mg/kg-day	N/A	N/A	N/A	1.6E-08	mg/kg-day	1.0E-03	mg/kg-day	1.6E-05
				Chromium III	1E+02	mg/kg	2.6E-07	mg/kg-day	N/A	N/A	N/A	2.6E-06	mg/kg-day	1.5E+00	mg/kg-day	1.8E-06
				Copper	6E+01	mg/kg	1.5E-07	mg/kg-day	N/A	N/A	N/A	1.5E-06	mg/kg-day	3.0E-02	mg/kg-day	4.8E-05
				Lead												
				Manganese	1E+02	mg/kg	3.4E-07	mg/kg-day	N/A	N/A	N/A	3.4E-06	mg/kg-day	7.0E-02	mg/kg-day	4.8E-05
				Mercury	6E-01	mg/kg	1.5E-09	mg/kg-day	N/A	N/A	N/A	1.5E-08	mg/kg-day	1.0E-04	mg/kg-day	1.5E-04
				Nickel	7E+00	mg/kg	1.9E-08	mg/kg-day	N/A	N/A	N/A	1.9E-07	mg/kg-day	2.0E-02	mg/kg-day	9.3E-06
				Thallium	5E-01	mg/kg	1.2E-09	mg/kg-day	N/A	N/A	N/A	1.2E-08	mg/kg-day	8.0E-05	mg/kg-day	1.6E-04
				Vanadium	1E+01	mg/kg	2.9E-08	mg/kg-day	N/A	N/A	N/A	2.9E-07	mg/kg-day	1.0E-03	mg/kg-day	2.9E-04
				Zinc	2E+02	mg/kg	5.6E-07	mg/kg-day	N/A	N/A	N/A	5.6E-06	mg/kg-day	3.0E-01	mg/kg-day	1.9E-05
			Exp. Route Total								1E-07					3E-03
			Dermal													
				Benzo(a)anthracene	1E+00	mg/kg	5.1E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.7E-09	5.1E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	9E-01	mg/kg	4.7E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.4E-08	4.7E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	7.6E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.5E-09	7.6E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	5.8E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	4.2E-10	5.8E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E+00	mg/kg	7.9E-09	mg/kg-day	N/A	N/A	N/A	7.9E-08	mg/kg-day	2.0E-02	mg/kg-day	4.0E-06
				Arsenic	6E+01	mg/kg	7.5E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.1E-07	7.5E-07	mg/kg-day	3.0E-04	mg/kg-day	2.5E-03
				Cadmium	6E-01	mg/kg	2.6E-10	mg/kg-day	N/A	N/A	N/A	2.6E-09	mg/kg-day	2.5E-05	mg/kg-day	1.0E-04
			Exp. Route Total								2E-07					3E-03
		Exposure Point Total									3E-07					6E-03

TABLE 3-7.1.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station 22/TT-22	Ingestion													
				Tetrachloroethene	3E+00	mg/kg	7.0E-09	mg/kg-day	5.4E-01	(mg/kg-day) $^{-1}$	3.8E-09	7.0E-08	mg/kg-day	1.0E-02	mg/kg-day	7.0E-06
				Trichloroethene	7E-01	mg/kg	1.8E-09	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	7.1E-10	1.8E-08	mg/kg-day	3.0E-04	mg/kg-day	5.9E-05
				Benzo(a)anthracene	3E-01	mg/kg	7.6E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.6E-10	7.6E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	5.1E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.7E-09	5.1E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	4E-01	mg/kg	1.0E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	7.3E-10	1.0E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	4E-01	mg/kg	1.1E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	7.8E-11	1.1E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	4E-02	mg/kg	1.1E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	8.2E-10	1.1E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	2E-01	mg/kg	5.6E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.1E-10	5.6E-09	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	4E-01	mg/kg	1.0E-09	mg/kg-day	N/A	N/A	N/A	1.0E-08	mg/kg-day	2.0E-02	mg/kg-day	5.1E-07
				Aroclor 1260	3E-02	mg/kg	7.4E-11	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	7.4E-11	7.4E-10	mg/kg-day	2.0E-05	mg/kg-day	3.7E-05
				Antimony	7E+01	mg/kg	1.8E-07	mg/kg-day	N/A	N/A	N/A	1.8E-06	mg/kg-day	4.0E-04	mg/kg-day	4.4E-03
				Arsenic	8E+01	mg/kg	2.0E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.5E-07	2.0E-06	mg/kg-day	5.9E-04	mg/kg-day	3.3E-03
				Barium	5E+01	mg/kg	1.3E-07	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	7.0E-02	mg/kg-day	1.8E-05
				Cadmium	1E+00	mg/kg	3.6E-09	mg/kg-day	N/A	N/A	N/A	3.6E-08	mg/kg-day	1.0E-03	mg/kg-day	3.6E-05
				Chromium III	6E+01	mg/kg	1.7E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	1.5E+00	mg/kg-day	1.1E-06
				Copper	3E+01	mg/kg	7.5E-08	mg/kg-day	N/A	N/A	N/A	7.5E-07	mg/kg-day	3.0E-02	mg/kg-day	2.5E-05
				Lead												
				Manganese	1E+02	mg/kg	3.0E-07	mg/kg-day	N/A	N/A	N/A	3.0E-06	mg/kg-day	7.0E-02	mg/kg-day	4.2E-05
				Mercury	5E-01	mg/kg	1.2E-09	mg/kg-day	N/A	N/A	N/A	1.2E-08	mg/kg-day	1.0E-04	mg/kg-day	1.2E-04
				Nickel	1E+01	mg/kg	2.9E-08	mg/kg-day	N/A	N/A	N/A	2.9E-07	mg/kg-day	2.0E-02	mg/kg-day	1.4E-05
				Vanadium	4E+01	mg/kg	1.0E-07	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	1.0E-03	mg/kg-day	1.0E-03
				Zinc	1E+02	mg/kg	2.4E-07	mg/kg-day	N/A	N/A	N/A	2.4E-06	mg/kg-day	3.0E-01	mg/kg-day	8.1E-06
			Exp. Route Total								2E-07					9E-03
			Dermal													
				Benzo(a)anthracene	3E-01	mg/kg	1.6E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.2E-09	1.6E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	1.1E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	7.7E-09	1.1E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	4E-01	mg/kg	2.1E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.5E-09	2.1E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	4E-01	mg/kg	2.2E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.6E-10	2.2E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	4E-02	mg/kg	2.3E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.7E-09	2.3E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	2E-01	mg/kg	1.2E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	8.5E-10	1.2E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	4E-01	mg/kg	2.1E-09	mg/kg-day	N/A	N/A	N/A	2.1E-08	mg/kg-day	2.0E-02	mg/kg-day	1.1E-06
				Aroclor 1260	3E-02	mg/kg	1.6E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	1.6E-10	1.6E-09	mg/kg-day	2.0E-05	mg/kg-day	8.2E-05
				Arsenic	8E+01	mg/kg	9.4E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.4E-07	9.4E-07	mg/kg-day	3.0E-04	mg/kg-day	3.1E-03
				Cadmium	1E+00	mg/kg	5.8E-10	mg/kg-day	N/A	N/A	N/A	5.8E-09	mg/kg-day	2.5E-05	mg/kg-day	2.3E-04
			Exp. Route Total								2E-07					3E-03
		Exposure Point Total									3E-07					1E-02

TABLE 3-7.1.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station WH	Ingestion													
				Trichloroethene	5E-02	mg/kg	1.3E-10	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	5.4E-11	1.3E-09	mg/kg-day	3.0E-04	mg/kg-day	4.5E-06
				Benzo(a)anthracene	4E-01	mg/kg	1.1E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	8.0E-10	1.1E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	2.5E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.9E-08	2.5E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	9E-01	mg/kg	2.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.7E-09	2.3E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	7E-01	mg/kg	1.8E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.3E-10	1.8E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	7.9E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	5.8E-09	7.9E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	5E-01	mg/kg	1.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.7E-10	1.3E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	4E-01	mg/kg	1.1E-09	mg/kg-day	N/A	N/A	N/A	1.1E-08	mg/kg-day	2.0E-02	mg/kg-day	5.5E-07
				Aroclor 1260	4E-02	mg/kg	1.0E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	1.0E-10	1.0E-09	mg/kg-day	2.0E-05	mg/kg-day	5.2E-05
				Antimony	3E+01	mg/kg	8.9E-08	mg/kg-day	N/A	N/A	N/A	8.9E-07	mg/kg-day	4.0E-04	mg/kg-day	2.2E-03
				Arsenic	2E+03	mg/kg	4.9E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.7E-06	4.9E-05	mg/kg-day	5.9E-04	mg/kg-day	8.2E-02
				Barium	9E+01	mg/kg	2.4E-07	mg/kg-day	N/A	N/A	N/A	2.4E-06	mg/kg-day	7.0E-02	mg/kg-day	3.4E-05
				Cadmium	1E+01	mg/kg	2.7E-08	mg/kg-day	N/A	N/A	N/A	2.7E-07	mg/kg-day	1.0E-03	mg/kg-day	2.7E-04
				Chromium III	1E+03	mg/kg	3.0E-06	mg/kg-day	N/A	N/A	N/A	3.0E-05	mg/kg-day	1.5E+00	mg/kg-day	2.0E-05
				Copper	1E+03	mg/kg	3.0E-06	mg/kg-day	N/A	N/A	N/A	3.0E-05	mg/kg-day	3.0E-02	mg/kg-day	1.0E-03
				Lead												
				Manganese	5E+02	mg/kg	1.3E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	7.0E-02	mg/kg-day	1.9E-04
				Mercury	3E+01	mg/kg	7.0E-08	mg/kg-day	N/A	N/A	N/A	7.0E-07	mg/kg-day	1.0E-04	mg/kg-day	7.0E-03
				Nickel	4E+01	mg/kg	1.0E-07	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	2.0E-02	mg/kg-day	5.2E-05
				Thallium	8E-01	mg/kg	2.0E-09	mg/kg-day	N/A	N/A	N/A	2.0E-08	mg/kg-day	8.0E-05	mg/kg-day	2.5E-04
				Vanadium	1E+02	mg/kg	2.5E-07	mg/kg-day	N/A	N/A	N/A	2.5E-06	mg/kg-day	1.0E-03	mg/kg-day	2.5E-03
				Zinc	2E+03	mg/kg	5.9E-06	mg/kg-day	N/A	N/A	N/A	5.9E-05	mg/kg-day	3.0E-01	mg/kg-day	2.0E-04
				Chromium VI	2E+00	mg/kg	3.9E-09	mg/kg-day	N/A	N/A	N/A	3.9E-08	mg/kg-day	3.0E-03	mg/kg-day	1.3E-05
			Exp. Route Total								4E-06					1E-01
			Dermal													
				Benzo(a)anthracene	4E-01	mg/kg	2.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.7E-09	2.3E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	5.3E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.9E-08	5.3E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	9E-01	mg/kg	4.8E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.5E-09	4.8E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	7E-01	mg/kg	3.6E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	2.7E-10	3.6E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	1.6E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.2E-08	1.6E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	5E-01	mg/kg	2.7E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.0E-09	2.7E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	4E-01	mg/kg	2.3E-09	mg/kg-day	N/A	N/A	N/A	2.3E-08	mg/kg-day	2.0E-02	mg/kg-day	1.1E-06
				Aroclor 1260	4E-02	mg/kg	2.3E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	2.3E-10	2.3E-09	mg/kg-day	2.0E-05	mg/kg-day	1.2E-04
				Arsenic	2E+03	mg/kg	2.3E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.5E-06	2.3E-05	mg/kg-day	3.0E-04	mg/kg-day	7.8E-02
				Cadmium	1E+01	mg/kg	4.4E-09	mg/kg-day	N/A	N/A	N/A	4.4E-08	mg/kg-day	2.5E-05	mg/kg-day	1.7E-03
			Exp. Route Total								4E-06					8E-02
		Exposure Point Total									7E-06					2E-01

TABLE 3-7.1.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station WG	Ingestion													
				Trichloroethene	4E-02	mg/kg	1.1E-10	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	4.3E-11	1.1E-09	mg/kg-day	3.0E-04	mg/kg-day	3.6E-06
				Benzo(a)anthracene	1E-01	mg/kg	3.3E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.4E-10	3.3E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	4.1E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.0E-09	4.1E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E-01	mg/kg	7.4E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.4E-10	7.4E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E-01	mg/kg	5.1E-10	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	3.7E-11	5.1E-09	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	5E-02	mg/kg	1.2E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	8.5E-10	1.2E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	3.6E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.6E-10	3.6E-09	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E-01	mg/kg	4.1E-10	mg/kg-day	N/A	N/A	N/A	4.1E-09	mg/kg-day	2.0E-02	mg/kg-day	2.0E-07
				Aroclor 1260	1E-02	mg/kg	2.8E-11	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	2.8E-11	2.8E-10	mg/kg-day	2.0E-05	mg/kg-day	1.4E-05
				Antimony	9E+00	mg/kg	2.3E-08	mg/kg-day	N/A	N/A	N/A	2.3E-07	mg/kg-day	4.0E-04	mg/kg-day	5.8E-04
				Arsenic	3E+02	mg/kg	6.7E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	5.1E-07	6.7E-06	mg/kg-day	5.9E-04	mg/kg-day	1.1E-02
				Barium	9E+01	mg/kg	2.4E-07	mg/kg-day	N/A	N/A	N/A	2.4E-06	mg/kg-day	7.0E-02	mg/kg-day	3.4E-05
				Cadmium	6E+00	mg/kg	1.6E-08	mg/kg-day	N/A	N/A	N/A	1.6E-07	mg/kg-day	1.0E-03	mg/kg-day	1.6E-04
				Chromium III	9E+02	mg/kg	2.4E-06	mg/kg-day	N/A	N/A	N/A	2.4E-05	mg/kg-day	1.5E+00	mg/kg-day	1.6E-05
				Copper	6E+02	mg/kg	1.6E-06	mg/kg-day	N/A	N/A	N/A	1.6E-05	mg/kg-day	3.0E-02	mg/kg-day	5.3E-04
				Lead												
				Manganese	1E+03	mg/kg	2.6E-06	mg/kg-day	N/A	N/A	N/A	2.6E-05	mg/kg-day	7.0E-02	mg/kg-day	3.7E-04
				Mercury	3E+00	mg/kg	7.5E-09	mg/kg-day	N/A	N/A	N/A	7.5E-08	mg/kg-day	1.0E-04	mg/kg-day	7.5E-04
				Nickel	3E+01	mg/kg	8.8E-08	mg/kg-day	N/A	N/A	N/A	8.8E-07	mg/kg-day	2.0E-02	mg/kg-day	4.4E-05
				Thallium	4E-01	mg/kg	1.1E-09	mg/kg-day	N/A	N/A	N/A	1.1E-08	mg/kg-day	8.0E-05	mg/kg-day	1.4E-04
				Vanadium	7E+01	mg/kg	1.7E-07	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	1E+03	mg/kg	2.8E-06	mg/kg-day	N/A	N/A	N/A	2.8E-05	mg/kg-day	3.0E-01	mg/kg-day	9.2E-05
			Exp. Route Total								5E-07					2E-02
			Dermal													
				Benzo(a)anthracene	1E-01	mg/kg	6.9E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.0E-10	6.9E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	8.4E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	6.2E-09	8.4E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E-01	mg/kg	1.5E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.1E-09	1.5E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E-01	mg/kg	1.1E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	7.7E-11	1.1E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	5E-02	mg/kg	2.4E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.8E-09	2.4E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	7.4E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.4E-10	7.4E-09	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E-01	mg/kg	8.4E-10	mg/kg-day	N/A	N/A	N/A	8.4E-09	mg/kg-day	2.0E-02	mg/kg-day	4.2E-07
				Aroclor 1260	1E-02	mg/kg	6.3E-11	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	6.3E-11	6.3E-10	mg/kg-day	2.0E-05	mg/kg-day	3.1E-05
				Arsenic	3E+02	mg/kg	3.2E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.8E-07	3.2E-06	mg/kg-day	3.0E-04	mg/kg-day	1.1E-02
				Cadmium	6E+00	mg/kg	2.6E-09	mg/kg-day	N/A	N/A	N/A	2.6E-08	mg/kg-day	2.5E-05	mg/kg-day	1.0E-03
			Exp. Route Total								5E-07					1E-02
		Exposure Point Total									1E-06					3E-02

TABLE 3-7.1.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station WS/WSS	Ingestion													
				Antimony	5E+00	mg/kg	3.8E-08	mg/kg-day	N/A	N/A	N/A	3.8E-07	mg/kg-day	4.0E-04	mg/kg-day	9.4E-04
				Arsenic	2E+02	mg/kg	1.7E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.3E-06	1.7E-05	mg/kg-day	5.9E-04	mg/kg-day	2.9E-02
				Barium	1E+02	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.1E-05	mg/kg-day	7.0E-02	mg/kg-day	1.5E-04
				Cadmium	1E+01	mg/kg	8.2E-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
				Chromium III	7E+02	mg/kg	5.6E-06	mg/kg-day	N/A	N/A	N/A	5.6E-05	mg/kg-day	1.5E+00	mg/kg-day	3.7E-05
				Copper	4E+02	mg/kg	3.2E-06	mg/kg-day	N/A	N/A	N/A	3.2E-05	mg/kg-day	3.0E-02	mg/kg-day	1.1E-03
				Lead												
				Manganese	1E+03	mg/kg	9.3E-06	mg/kg-day	N/A	N/A	N/A	9.3E-05	mg/kg-day	7.0E-02	mg/kg-day	1.3E-03
				Mercury	1E+00	mg/kg	1.0E-08	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	1.0E-04	mg/kg-day	1.0E-03
				Nickel	4E+01	mg/kg	2.8E-07	mg/kg-day	N/A	N/A	N/A	2.8E-06	mg/kg-day	2.0E-02	mg/kg-day	1.4E-04
				Thallium	1E+00	mg/kg	8.4E-09	mg/kg-day	N/A	N/A	N/A	8.4E-08	mg/kg-day	8.0E-05	mg/kg-day	1.1E-03
				Vanadium	4E+01	mg/kg	3.4E-07	mg/kg-day	N/A	N/A	N/A	3.4E-06	mg/kg-day	1.0E-03	mg/kg-day	3.4E-03
				Zinc	2E+03	mg/kg	1.6E-05	mg/kg-day	N/A	N/A	N/A	1.6E-04	mg/kg-day	3.0E-01	mg/kg-day	5.2E-04
				Chromium VI	9E-01	mg/kg	7.2E-09	mg/kg-day	N/A	N/A	N/A	7.2E-08	mg/kg-day	3.0E-03	mg/kg-day	2.4E-05
			Exp. Route Total								1E-06					4E-02
			Dermal													
				Arsenic	2E+02	mg/kg	8.3E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.2E-06	8.3E-06	mg/kg-day	3.0E-04	mg/kg-day	2.8E-02
				Cadmium	1E+01	mg/kg	1.3E-08	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	2.5E-05	mg/kg-day	5.2E-03
			Exp. Route Total								1E-06					3E-02
		Exposure Point Total									3E-06					7E-02

TABLE 3-7.1.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station TT-30	Ingestion													
				Arsenic	1E+03	mg/kg	2.7E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.1E-06	2.7E-05	mg/kg-day	5.9E-04	mg/kg-day	4.7E-02
				Barium	3E+01	mg/kg	8.3E-08	mg/kg-day	N/A	N/A	N/A	8.3E-07	mg/kg-day	7.0E-02	mg/kg-day	1.2E-05
				Cadmium	7E+00	mg/kg	1.8E-08	mg/kg-day	N/A	N/A	N/A	1.8E-07	mg/kg-day	1.0E-03	mg/kg-day	1.8E-04
				Chromium III	5E+03	mg/kg	1.4E-05	mg/kg-day	N/A	N/A	N/A	1.4E-04	mg/kg-day	1.5E+00	mg/kg-day	9.0E-05
				Copper	4E+03	mg/kg	9.6E-06	mg/kg-day	N/A	N/A	N/A	9.6E-05	mg/kg-day	3.0E-02	mg/kg-day	3.2E-03
				Lead												
				Manganese	2E+02	mg/kg	5.2E-07	mg/kg-day	N/A	N/A	N/A	5.2E-06	mg/kg-day	7.0E-02	mg/kg-day	7.5E-05
				Mercury	9E+01	mg/kg	2.3E-07	mg/kg-day	N/A	N/A	N/A	2.3E-06	mg/kg-day	1.0E-04	mg/kg-day	2.3E-02
				Nickel	8E+00	mg/kg	2.0E-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
				Thallium	2E+00	mg/kg	3.8E-09	mg/kg-day	N/A	N/A	N/A	3.8E-08	mg/kg-day	8.0E-05	mg/kg-day	4.8E-04
				Vanadium	2E+01	mg/kg	5.3E-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
				Zinc	1E+03	mg/kg	3.0E-06	mg/kg-day	N/A	N/A	N/A	3.0E-05	mg/kg-day	3.0E-01	mg/kg-day	9.9E-05
				Chromium VI	7E+00	mg/kg	1.8E-08	mg/kg-day	N/A	N/A	N/A	1.8E-07	mg/kg-day	3.0E-03	mg/kg-day	5.9E-05
			Exp. Route Total								2E-06					7E-02
			Dermal													
				Arsenic	1E+03	mg/kg	1.3E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.0E-06	1.3E-05	mg/kg-day	3.0E-04	mg/kg-day	4.4E-02
				Cadmium	7E+00	mg/kg	2.9E-09	mg/kg-day	N/A	N/A	N/A	2.9E-08	mg/kg-day	2.5E-05	mg/kg-day	1.2E-03
			Exp. Route Total								2E-06					5E-02
		Exposure Point Total									4E-06					1E-01

TABLE 3-7.1.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station CB-01	Ingestion													
				Antimony	2E+00	mg/kg	1.6E-08	mg/kg-day	N/A	N/A	N/A	1.6E-07	mg/kg-day	4.0E-04	mg/kg-day	3.9E-04
				Arsenic	6E+01	mg/kg	4.4E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.4E-07	4.4E-06	mg/kg-day	5.9E-04	mg/kg-day	7.5E-03
				Barium	6E+01	mg/kg	4.5E-07	mg/kg-day	N/A	N/A	N/A	4.5E-06	mg/kg-day	7.0E-02	mg/kg-day	6.4E-05
				Cadmium	9E+00	mg/kg	7.1E-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
				Chromium III	3E+02	mg/kg	2.5E-06	mg/kg-day	N/A	N/A	N/A	2.5E-05	mg/kg-day	1.5E+00	mg/kg-day	1.7E-05
				Copper	7E+02	mg/kg	5.7E-06	mg/kg-day	N/A	N/A	N/A	5.7E-05	mg/kg-day	3.0E-02	mg/kg-day	1.9E-03
				Lead												
				Manganese	7E+02	mg/kg	5.2E-06	mg/kg-day	N/A	N/A	N/A	5.2E-05	mg/kg-day	7.0E-02	mg/kg-day	7.5E-04
				Mercury	3E+00	mg/kg	2.2E-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
				Nickel	2E+01	mg/kg	1.6E-07	mg/kg-day	N/A	N/A	N/A	1.6E-06	mg/kg-day	2.0E-02	mg/kg-day	7.8E-05
				Thallium	3E+00	mg/kg	1.9E-08	mg/kg-day	N/A	N/A	N/A	1.9E-07	mg/kg-day	8.0E-05	mg/kg-day	2.4E-03
				Vanadium	8E+01	mg/kg	6.1E-07	mg/kg-day	N/A	N/A	N/A	6.1E-06	mg/kg-day	1.0E-03	mg/kg-day	6.1E-03
				Zinc	6E+02	mg/kg	4.9E-06	mg/kg-day	N/A	N/A	N/A	4.9E-05	mg/kg-day	3.0E-01	mg/kg-day	1.6E-04
			Exp. Route Total								3E-07					2E-02
			Dermal													
				Arsenic	6E+01	mg/kg	2.1E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.2E-07	2.1E-06	mg/kg-day	3.0E-04	mg/kg-day	7.1E-03
				Cadmium	9E+00	mg/kg	1.1E-08	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	2.5E-05	mg/kg-day	4.5E-03
			Exp. Route Total								3E-07					1E-02
		Exposure Point Total									7E-07					3E-02
		Station CB-02	Ingestion													
				Antimony	2E+00	mg/kg	1.4E-08	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	4.0E-04	mg/kg-day	3.4E-04
				Arsenic	4E+01	mg/kg	3.2E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.4E-07	3.2E-06	mg/kg-day	5.9E-04	mg/kg-day	5.4E-03
				Barium	2E+02	mg/kg	1.3E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	7.0E-02	mg/kg-day	1.9E-04
				Cadmium	4E+00	mg/kg	2.9E-08	mg/kg-day	N/A	N/A	N/A	2.9E-07	mg/kg-day	1.0E-03	mg/kg-day	2.9E-04
				Chromium III	1E+02	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.1E-05	mg/kg-day	1.5E+00	mg/kg-day	7.3E-06
				Copper	1E+02	mg/kg	7.4E-07	mg/kg-day	N/A	N/A	N/A	7.4E-06	mg/kg-day	3.0E-02	mg/kg-day	2.5E-04
				Lead												
				Manganese	7E+01	mg/kg	5.5E-07	mg/kg-day	N/A	N/A	N/A	5.5E-06	mg/kg-day	7.0E-02	mg/kg-day	7.8E-05
				Mercury	3E-01	mg/kg	2.5E-09	mg/kg-day	N/A	N/A	N/A	2.5E-08	mg/kg-day	1.0E-04	mg/kg-day	2.5E-04
				Nickel	1E+01	mg/kg	7.6E-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
				Vanadium	3E+01	mg/kg	2.4E-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
				Zinc	3E+02	mg/kg	2.4E-06	mg/kg-day	N/A	N/A	N/A	2.4E-05	mg/kg-day	3.0E-01	mg/kg-day	8.0E-05
			Exp. Route Total								2E-07					9E-03
			Dermal													
				Arsenic	4E+01	mg/kg	1.5E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.3E-07	1.5E-06	mg/kg-day	3.0E-04	mg/kg-day	5.0E-03
				Cadmium	4E+00	mg/kg	4.7E-09	mg/kg-day	N/A	N/A	N/A	4.7E-08	mg/kg-day	2.5E-05	mg/kg-day	1.9E-03
			Exp. Route Total								2E-07					7E-03
		Exposure Point Total									5E-07					2E-02

TABLE 3-7.1.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station CB-03	Ingestion													
				Antimony	2E+00	mg/kg	1.2E-08	mg/kg-day	N/A	N/A	N/A	1.2E-07	mg/kg-day	4.0E-04	mg/kg-day	2.9E-04
				Arsenic	6E+02	mg/kg	4.5E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.5E-06	4.5E-05	mg/kg-day	5.9E-04	mg/kg-day	7.7E-02
				Barium	7E+01	mg/kg	5.1E-07	mg/kg-day	N/A	N/A	N/A	5.1E-06	mg/kg-day	7.0E-02	mg/kg-day	7.3E-05
				Cadmium	1E+01	mg/kg	1.0E-07	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	1.0E-03	mg/kg-day	1.0E-03
				Chromium III	5E+02	mg/kg	3.5E-06	mg/kg-day	N/A	N/A	N/A	3.5E-05	mg/kg-day	1.5E+00	mg/kg-day	2.3E-05
				Copper	4E+02	mg/kg	2.9E-06	mg/kg-day	N/A	N/A	N/A	2.9E-05	mg/kg-day	3.0E-02	mg/kg-day	9.6E-04
				Lead												
				Manganese	5E+02	mg/kg	3.5E-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
				Mercury	2E+00	mg/kg	1.9E-08	mg/kg-day	N/A	N/A	N/A	1.9E-07	mg/kg-day	1.0E-04	mg/kg-day	1.9E-03
				Nickel	4E+01	mg/kg	2.8E-07	mg/kg-day	N/A	N/A	N/A	2.8E-06	mg/kg-day	2.0E-02	mg/kg-day	1.4E-04
				Thallium	1E+00	mg/kg	7.4E-09	mg/kg-day	N/A	N/A	N/A	7.4E-08	mg/kg-day	8.0E-05	mg/kg-day	9.2E-04
				Vanadium	6E+01	mg/kg	4.8E-07	mg/kg-day	N/A	N/A	N/A	4.8E-06	mg/kg-day	1.0E-03	mg/kg-day	4.8E-03
				Zinc	2E+03	mg/kg	1.6E-05	mg/kg-day	N/A	N/A	N/A	1.6E-04	mg/kg-day	3.0E-01	mg/kg-day	5.3E-04
			Exp. Route Total								3E-06					9E-02
			Dermal													
				Arsenic	6E+02	mg/kg	2.2E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.3E-06	2.2E-05	mg/kg-day	3.0E-04	mg/kg-day	7.2E-02
				Cadmium	1E+01	mg/kg	1.6E-08	mg/kg-day	N/A	N/A	N/A	1.6E-07	mg/kg-day	2.5E-05	mg/kg-day	6.4E-03
			Exp. Route Total								3E-06					8E-02
		Exposure Point Total									7E-06					2E-01
		Station CB-04	Ingestion													
				Antimony	5E+00	mg/kg	3.6E-08	mg/kg-day	N/A	N/A	N/A	3.6E-07	mg/kg-day	4.0E-04	mg/kg-day	9.1E-04
				Arsenic	2E+02	mg/kg	1.4E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.1E-06	1.4E-05	mg/kg-day	5.9E-04	mg/kg-day	2.4E-02
				Barium	8E+01	mg/kg	5.8E-07	mg/kg-day	N/A	N/A	N/A	5.8E-06	mg/kg-day	7.0E-02	mg/kg-day	8.4E-05
				Cadmium	6E+00	mg/kg	4.4E-08	mg/kg-day	N/A	N/A	N/A	4.4E-07	mg/kg-day	1.0E-03	mg/kg-day	4.4E-04
				Chromium III	3E+02	mg/kg	2.1E-06	mg/kg-day	N/A	N/A	N/A	2.1E-05	mg/kg-day	1.5E+00	mg/kg-day	1.4E-05
				Copper	2E+02	mg/kg	1.9E-06	mg/kg-day	N/A	N/A	N/A	1.9E-05	mg/kg-day	3.0E-02	mg/kg-day	6.2E-04
				Lead												
				Manganese	1E+03	mg/kg	1.1E-05	mg/kg-day	N/A	N/A	N/A	1.1E-04	mg/kg-day	7.0E-02	mg/kg-day	1.5E-03
				Mercury	1E+00	mg/kg	9.2E-09	mg/kg-day	N/A	N/A	N/A	9.2E-08	mg/kg-day	1.0E-04	mg/kg-day	9.2E-04
				Nickel	8E+01	mg/kg	5.9E-07	mg/kg-day	N/A	N/A	N/A	5.9E-06	mg/kg-day	2.0E-02	mg/kg-day	2.9E-04
				Thallium	1E+00	mg/kg	8.6E-09	mg/kg-day	N/A	N/A	N/A	8.6E-08	mg/kg-day	8.0E-05	mg/kg-day	1.1E-03
				Vanadium	7E+01	mg/kg	5.2E-07	mg/kg-day	N/A	N/A	N/A	5.2E-06	mg/kg-day	1.0E-03	mg/kg-day	5.2E-03
				Zinc	3E+03	mg/kg	2.3E-05	mg/kg-day	N/A	N/A	N/A	2.3E-04	mg/kg-day	3.0E-01	mg/kg-day	7.8E-04
			Exp. Route Total								1E-06					4E-02
			Dermal													
				Arsenic	2E+02	mg/kg	6.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.0E-06	6.6E-06	mg/kg-day	3.0E-04	mg/kg-day	2.2E-02
				Cadmium	6E+00	mg/kg	7.0E-09	mg/kg-day	N/A	N/A	N/A	7.0E-08	mg/kg-day	2.5E-05	mg/kg-day	2.8E-03
			Exp. Route Total								1E-06					2E-02
		Exposure Point Total									2E-06					6E-02

TABLE 3-7.1.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station CB-06	Ingestion													
				Antimony	5E+00	mg/kg	3.6E-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	1E+02	mg/kg	1.1E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	8.2E-07	1.1E-05	mg/kg-day	5.9E-04	mg/kg-day	1.8E-02
				Barium	5E+01	mg/kg	3.9E-07	mg/kg-day	N/A	N/A	N/A	3.9E-06	mg/kg-day	7.0E-02	mg/kg-day	5.6E-05
				Cadmium	2E+01	mg/kg	1.3E-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
				Chromium III	5E+02	mg/kg	3.8E-06	mg/kg-day	N/A	N/A	N/A	3.8E-05	mg/kg-day	1.5E+00	mg/kg-day	2.5E-05
				Copper	2E+02	mg/kg	1.8E-06	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	3.0E-02	mg/kg-day	6.0E-04
				Lead												
				Manganese	9E+01	mg/kg	7.2E-07	mg/kg-day	N/A	N/A	N/A	7.2E-06	mg/kg-day	7.0E-02	mg/kg-day	1.0E-04
				Mercury	3E-01	mg/kg	2.6E-08	mg/kg-day	N/A	N/A	N/A	2.6E-08	mg/kg-day	1.0E-04	mg/kg-day	2.6E-04
				Nickel	3E+01	mg/kg	2.1E-07	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	2.0E-02	mg/kg-day	1.1E-04
				Thallium	4E+00	mg/kg	3.2E-08	mg/kg-day	N/A	N/A	N/A	3.2E-07	mg/kg-day	8.0E-05	mg/kg-day	3.9E-03
				Vanadium	7E+01	mg/kg	5.5E-07	mg/kg-day	N/A	N/A	N/A	5.5E-06	mg/kg-day	1.0E-03	mg/kg-day	5.5E-03
				Zinc	2E+03	mg/kg	1.6E-05	mg/kg-day	N/A	N/A	N/A	1.6E-04	mg/kg-day	3.0E-01	mg/kg-day	5.3E-04
				Chromium VI	6E-01	mg/kg	4.9E-09	mg/kg-day	N/A	N/A	N/A	4.9E-08	mg/kg-day	3.0E-03	mg/kg-day	1.6E-05
			Exp. Route Total								8E-07					3E-02
			Dermal													
				Arsenic	1E+02	mg/kg	5.1E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	7.7E-07	5.1E-06	mg/kg-day	3.0E-04	mg/kg-day	1.7E-02
				Cadmium	2E+01	mg/kg	2.1E-08	mg/kg-day	N/A	N/A	N/A	2.1E-07	mg/kg-day	2.5E-05	mg/kg-day	8.4E-03
			Exp. Route Total								8E-07					3E-02
		Exposure Point Total									2E-06					6E-02
		Station CB-07	Ingestion													
				Arsenic	2E+02	mg/kg	5.4E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	4.1E-07	5.4E-06	mg/kg-day	5.9E-04	mg/kg-day	9.1E-03
				Barium	6E+01	mg/kg	1.4E-07	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	7.0E-02	mg/kg-day	2.0E-05
				Cadmium	5E+00	mg/kg	1.2E-08	mg/kg-day	N/A	N/A	N/A	1.2E-07	mg/kg-day	1.0E-03	mg/kg-day	1.2E-04
				Chromium III	7E+02	mg/kg	1.8E-06	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	1.5E+00	mg/kg-day	1.2E-05
				Copper	2E+02	mg/kg	4.2E-07	mg/kg-day	N/A	N/A	N/A	4.2E-06	mg/kg-day	3.0E-02	mg/kg-day	1.4E-04
				Lead												
				Manganese	3E+02	mg/kg	8.5E-07	mg/kg-day	N/A	N/A	N/A	8.5E-06	mg/kg-day	7.0E-02	mg/kg-day	1.2E-04
				Mercury	1E+00	mg/kg	3.3E-09	mg/kg-day	N/A	N/A	N/A	3.3E-08	mg/kg-day	1.0E-04	mg/kg-day	3.3E-04
				Nickel	2E+01	mg/kg	5.6E-08	mg/kg-day	N/A	N/A	N/A	5.6E-07	mg/kg-day	2.0E-02	mg/kg-day	2.8E-05
				Vanadium	9E+01	mg/kg	2.3E-07	mg/kg-day	N/A	N/A	N/A	2.3E-06	mg/kg-day	1.0E-03	mg/kg-day	2.3E-03
				Zinc	6E+02	mg/kg	1.6E-06	mg/kg-day	N/A	N/A	N/A	1.6E-05	mg/kg-day	3.0E-01	mg/kg-day	5.2E-05
			Exp. Route Total								4E-07					1E-02
			Dermal													
				Arsenic	2E+02	mg/kg	2.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.9E-07	2.6E-06	mg/kg-day	3.0E-04	mg/kg-day	8.6E-03
				Cadmium	5E+00	mg/kg	2.0E-09	mg/kg-day	N/A	N/A	N/A	2.0E-08	mg/kg-day	2.5E-05	mg/kg-day	7.9E-04
			Exp. Route Total								4E-07					9E-03
		Exposure Point Total									6E-07					2E-02

TABLE 3-7.1.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station 16/TT-33	Ingestion													
				Benzo(a)anthracene	1E-01	mg/kg	2.8E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.0E-10	2.8E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E-01	mg/kg	3.6E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.6E-09	3.6E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E-01	mg/kg	5.9E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.3E-10	5.9E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E-01	mg/kg	2.5E-10	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.8E-11	2.5E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	6E-02	mg/kg	1.5E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.1E-10	1.5E-09	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	1E-01	mg/kg	3.3E-10	mg/kg-day	N/A	N/A	N/A	3.3E-09	mg/kg-day	2.0E-02	mg/kg-day	1.7E-07
				Antimony	6E+00	mg/kg	1.5E-08	mg/kg-day	N/A	N/A	N/A	1.5E-07	mg/kg-day	4.0E-04	mg/kg-day	3.7E-04
				Arsenic	2E+02	mg/kg	6.0E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	4.6E-07	6.0E-06	mg/kg-day	5.9E-04	mg/kg-day	1.0E-02
				Barium	6E+01	mg/kg	1.6E-07	mg/kg-day	N/A	N/A	N/A	1.6E-06	mg/kg-day	7.0E-02	mg/kg-day	2.3E-05
				Cadmium	6E+00	mg/kg	1.4E-08	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	1.0E-03	mg/kg-day	1.4E-04
				Chromium III	6E+02	mg/kg	1.5E-06	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	1.5E+00	mg/kg-day	9.7E-06
				Copper	4E+02	mg/kg	1.0E-06	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	3.0E-02	mg/kg-day	3.4E-04
				Lead												
				Manganese	4E+02	mg/kg	9.9E-07	mg/kg-day	N/A	N/A	N/A	9.9E-06	mg/kg-day	7.0E-02	mg/kg-day	1.4E-04
				Mercury	3E+00	mg/kg	8.7E-09	mg/kg-day	N/A	N/A	N/A	8.7E-08	mg/kg-day	1.0E-04	mg/kg-day	8.7E-04
				Nickel	2E+01	mg/kg	3.9E-08	mg/kg-day	N/A	N/A	N/A	3.9E-07	mg/kg-day	2.0E-02	mg/kg-day	2.0E-05
				Vanadium	3E+01	mg/kg	7.8E-08	mg/kg-day	N/A	N/A	N/A	7.8E-07	mg/kg-day	1.0E-03	mg/kg-day	7.8E-04
				Zinc	9E+02	mg/kg	2.4E-06	mg/kg-day	N/A	N/A	N/A	2.4E-05	mg/kg-day	3.0E-01	mg/kg-day	7.9E-05
				Chromium VI	7E-01	mg/kg	1.9E-09	mg/kg-day	N/A	N/A	N/A	1.9E-08	mg/kg-day	3.0E-03	mg/kg-day	6.3E-06
			Exp. Route Total								5E-07					1E-02
			Dermal													
				Benzo(a)anthracene	1E-01	mg/kg	5.8E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.2E-10	5.8E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E-01	mg/kg	7.4E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	5.4E-09	7.4E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E-01	mg/kg	1.2E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.0E-10	1.2E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E-01	mg/kg	5.2E-10	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	3.8E-11	5.2E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	6E-02	mg/kg	3.2E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.3E-10	3.2E-09	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	1E-01	mg/kg	6.9E-10	mg/kg-day	N/A	N/A	N/A	6.9E-09	mg/kg-day	2.0E-02	mg/kg-day	3.4E-07
				Arsenic	2E+02	mg/kg	2.9E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.3E-07	2.9E-06	mg/kg-day	3.0E-04	mg/kg-day	9.6E-03
				Cadmium	6E+00	mg/kg	2.3E-09	mg/kg-day	N/A	N/A	N/A	2.3E-08	mg/kg-day	2.5E-05	mg/kg-day	9.1E-04
			Exp. Route Total								4E-07					1E-02
		Exposure Point Total									9E-07					2E-02

TABLE 3-7.1.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station 09	Ingestion													
				Benzo(a)anthracene	5E-01	mg/kg	1.2E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	8.8E-10	1.2E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	5E-01	mg/kg	1.3E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	9.3E-09	1.3E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	3.4E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.5E-09	3.4E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	3.1E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	2.2E-10	3.1E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	8E-02	mg/kg	2.0E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.5E-09	2.0E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	mg/kg	6.4E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.7E-10	6.4E-09	mg/kg-day	N/A	N/A	N/A
				Antimony	1E+00	mg/kg	2.6E-09	mg/kg-day	N/A	N/A	N/A	2.6E-08	mg/kg-day	4.0E-04	mg/kg-day	6.4E-05
				Arsenic	3E+01	mg/kg	8.9E-08	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	6.8E-08	8.9E-07	mg/kg-day	5.9E-04	mg/kg-day	1.5E-03
				Barium	3E+01	mg/kg	8.4E-08	mg/kg-day	N/A	N/A	N/A	8.4E-07	mg/kg-day	7.0E-02	mg/kg-day	1.2E-05
				Cadmium	7E-01	mg/kg	1.7E-09	mg/kg-day	N/A	N/A	N/A	1.7E-08	mg/kg-day	1.0E-03	mg/kg-day	1.7E-05
				Chromium III	6E+01	mg/kg	1.5E-07	mg/kg-day	N/A	N/A	N/A	1.5E-06	mg/kg-day	1.5E+00	mg/kg-day	1.0E-06
				Copper	6E+01	mg/kg	1.6E-07	mg/kg-day	N/A	N/A	N/A	1.6E-06	mg/kg-day	3.0E-02	mg/kg-day	5.4E-05
				Lead												
				Manganese	4E+02	mg/kg	9.3E-07	mg/kg-day	N/A	N/A	N/A	9.3E-06	mg/kg-day	7.0E-02	mg/kg-day	1.3E-04
				Mercury	4E-01	mg/kg	9.8E-10	mg/kg-day	N/A	N/A	N/A	9.8E-09	mg/kg-day	1.0E-04	mg/kg-day	9.8E-05
				Nickel	1E+01	mg/kg	2.5E-08	mg/kg-day	N/A	N/A	N/A	2.5E-07	mg/kg-day	2.0E-02	mg/kg-day	1.2E-05
				Thallium	1E+00	mg/kg	3.3E-09	mg/kg-day	N/A	N/A	N/A	3.3E-08	mg/kg-day	8.0E-05	mg/kg-day	4.1E-04
				Vanadium	1E+01	mg/kg	3.5E-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
				Zinc	2E+02	mg/kg	6.0E-07	mg/kg-day	N/A	N/A	N/A	6.0E-06	mg/kg-day	3.0E-01	mg/kg-day	2.0E-05
			Exp. Route Total								8E-08					3E-03
			Dermal													
				Benzo(a)anthracene	5E-01	mg/kg	2.5E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.8E-09	2.5E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	5E-01	mg/kg	2.7E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.9E-08	2.7E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	7.0E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.1E-09	7.0E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	6.4E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	4.7E-10	6.4E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	8E-02	mg/kg	4.2E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.1E-09	4.2E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	mg/kg	1.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.7E-10	1.3E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	3E-01	mg/kg	1.6E-09	mg/kg-day	N/A	N/A	N/A	1.6E-08	mg/kg-day	2.0E-02	mg/kg-day	8.1E-07
				Arsenic	3E+01	mg/kg	4.2E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.4E-08	4.2E-07	mg/kg-day	3.0E-04	mg/kg-day	1.4E-03
				Cadmium	7E-01	mg/kg	2.8E-10	mg/kg-day	N/A	N/A	N/A	2.8E-09	mg/kg-day	2.5E-05	mg/kg-day	1.1E-04
			Exp. Route Total								9E-08					2E-03
		Exposure Point Total									2E-07					4E-03

TABLE 3-7.1.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station AM	Ingestion													
				Antimony	2E+00	mg/kg	5.1E-09	mg/kg-day	N/A	N/A	N/A	5.1E-08	mg/kg-day	4.0E-04	mg/kg-day	1.3E-04
				Arsenic	1E+02	mg/kg	3.1E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.4E-07	3.1E-06	mg/kg-day	5.9E-04	mg/kg-day	5.2E-03
				Barium	6E+01	mg/kg	1.5E-07	mg/kg-day	N/A	N/A	N/A	1.5E-06	mg/kg-day	7.0E-02	mg/kg-day	2.1E-05
				Cadmium	4E+00	mg/kg	9.9E-09	mg/kg-day	N/A	N/A	N/A	9.9E-08	mg/kg-day	1.0E-03	mg/kg-day	9.9E-05
				Chromium III	3E+02	mg/kg	8.2E-07	mg/kg-day	N/A	N/A	N/A	8.2E-06	mg/kg-day	1.5E+00	mg/kg-day	5.5E-06
				Copper	2E+02	mg/kg	5.0E-07	mg/kg-day	N/A	N/A	N/A	5.0E-06	mg/kg-day	3.0E-02	mg/kg-day	1.7E-04
				Lead												
				Manganese	1E+03	mg/kg	2.9E-06	mg/kg-day	N/A	N/A	N/A	2.9E-05	mg/kg-day	7.0E-02	mg/kg-day	4.1E-04
				Mercury	2E+00	mg/kg	4.8E-09	mg/kg-day	N/A	N/A	N/A	4.8E-08	mg/kg-day	1.0E-04	mg/kg-day	4.8E-04
				Nickel	2E+01	mg/kg	4.6E-08	mg/kg-day	N/A	N/A	N/A	4.6E-07	mg/kg-day	2.0E-02	mg/kg-day	2.3E-05
				Thallium	4E-01	mg/kg	1.1E-09	mg/kg-day	N/A	N/A	N/A	1.1E-08	mg/kg-day	8.0E-05	mg/kg-day	1.4E-04
				Vanadium	3E+01	mg/kg	6.8E-08	mg/kg-day	N/A	N/A	N/A	6.8E-07	mg/kg-day	1.0E-03	mg/kg-day	6.8E-04
				Zinc	9E+02	mg/kg	2.4E-06	mg/kg-day	N/A	N/A	N/A	2.4E-05	mg/kg-day	3.0E-01	mg/kg-day	8.0E-05
			Exp. Route Total								2E-07					7E-03
			Dermal													
				Arsenic	1E+02	mg/kg	1.5E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.2E-07	1.5E-06	mg/kg-day	3.0E-04	mg/kg-day	4.9E-03
				Cadmium	4E+00	mg/kg	1.6E-09	mg/kg-day	N/A	N/A	N/A	1.6E-08	mg/kg-day	2.5E-05	mg/kg-day	6.3E-04
			Exp. Route Total								2E-07					6E-03
		Exposure Point Total									5E-07					1E-02
		Station KF	Ingestion													
				Arsenic	5E+01	mg/kg	1.3E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.0E-07	1.3E-06	mg/kg-day	5.9E-04	mg/kg-day	2.2E-03
				Barium	4E+01	mg/kg	1.0E-07	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	7.0E-02	mg/kg-day	1.5E-05
				Cadmium	1E+00	mg/kg	2.6E-09	mg/kg-day	N/A	N/A	N/A	2.6E-08	mg/kg-day	1.0E-03	mg/kg-day	2.6E-05
				Chromium III	9E+01	mg/kg	2.2E-07	mg/kg-day	N/A	N/A	N/A	2.2E-06	mg/kg-day	1.5E+00	mg/kg-day	1.5E-06
				Copper	1E+02	mg/kg	2.8E-07	mg/kg-day	N/A	N/A	N/A	2.8E-06	mg/kg-day	3.0E-02	mg/kg-day	9.5E-05
				Lead												
				Manganese	4E+02	mg/kg	9.2E-07	mg/kg-day	N/A	N/A	N/A	9.2E-06	mg/kg-day	7.0E-02	mg/kg-day	1.3E-04
				Mercury	9E-01	mg/kg	2.3E-09	mg/kg-day	N/A	N/A	N/A	2.3E-08	mg/kg-day	1.0E-04	mg/kg-day	2.3E-04
				Nickel	9E+00	mg/kg	2.3E-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
				Vanadium	2E+01	mg/kg	5.9E-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
				Zinc	3E+02	mg/kg	8.9E-07	mg/kg-day	N/A	N/A	N/A	8.9E-06	mg/kg-day	3.0E-01	mg/kg-day	3.0E-05
			Exp. Route Total								1E-07					3E-03
			Dermal													
				Arsenic	5E+01	mg/kg	6.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	9.5E-08	6.3E-07	mg/kg-day	3.0E-04	mg/kg-day	2.1E-03
				Cadmium	1E+00	mg/kg	4.2E-10	mg/kg-day	N/A	N/A	N/A	4.2E-09	mg/kg-day	2.5E-05	mg/kg-day	1.7E-04
			Exp. Route Total								9E-08					2E-03
		Exposure Point Total									2E-07					6E-03

TABLE 3-7.1.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station 08	Ingestion													
				Benzo(a)anthracene	5E-01	mg/kg	1.2E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.0E-10	1.2E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	6E-01	mg/kg	1.6E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.2E-08	1.6E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	3.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.4E-09	3.3E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	3.4E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	2.5E-10	3.4E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	9E-02	mg/kg	2.4E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.7E-09	2.4E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	4E-01	mg/kg	1.0E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	7.4E-10	1.0E-08	mg/kg-day	N/A	N/A	N/A
				Antimony	1E+00	mg/kg	2.6E-09	mg/kg-day	N/A	N/A	N/A	2.6E-08	mg/kg-day	4.0E-04	mg/kg-day	6.6E-05
				Arsenic	2E+01	mg/kg	4.8E-08	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.7E-08	4.8E-07	mg/kg-day	5.9E-04	mg/kg-day	8.1E-04
				Barium	2E+01	mg/kg	4.8E-08	mg/kg-day	N/A	N/A	N/A	4.8E-07	mg/kg-day	7.0E-02	mg/kg-day	6.9E-06
				Chromium III	5E+01	mg/kg	1.4E-07	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	1.5E+00	mg/kg-day	9.2E-07
				Copper	7E+01	mg/kg	1.9E-07	mg/kg-day	N/A	N/A	N/A	1.9E-06	mg/kg-day	3.0E-02	mg/kg-day	6.2E-05
				Lead												
				Manganese	2E+02	mg/kg	4.1E-07	mg/kg-day	N/A	N/A	N/A	4.1E-06	mg/kg-day	7.0E-02	mg/kg-day	5.8E-05
				Mercury	5E-01	mg/kg	1.2E-09	mg/kg-day	N/A	N/A	N/A	1.2E-08	mg/kg-day	1.0E-04	mg/kg-day	1.2E-04
				Nickel	1E+01	mg/kg	3.1E-08	mg/kg-day	N/A	N/A	N/A	3.1E-07	mg/kg-day	2.0E-02	mg/kg-day	1.6E-05
				Thallium	1E+00	mg/kg	3.6E-09	mg/kg-day	N/A	N/A	N/A	3.6E-08	mg/kg-day	8.0E-05	mg/kg-day	4.6E-04
				Vanadium	1E+01	mg/kg	3.8E-08	mg/kg-day	N/A	N/A	N/A	3.8E-07	mg/kg-day	1.0E-03	mg/kg-day	3.8E-04
				Zinc	4E+02	mg/kg	8.9E-07	mg/kg-day	N/A	N/A	N/A	8.9E-06	mg/kg-day	3.0E-01	mg/kg-day	3.0E-05
			Exp. Route Total								5E-08					2E-03
			Dermal													
				Benzo(a)anthracene	5E-01	mg/kg	2.6E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.9E-09	2.6E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	6E-01	mg/kg	3.3E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.4E-08	3.3E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	6.8E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.9E-09	6.8E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	7.1E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	5.2E-10	7.1E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	9E-02	mg/kg	4.9E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.6E-09	4.9E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	4E-01	mg/kg	2.1E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.5E-09	2.1E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	2.5E-09	mg/kg-day	N/A	N/A	N/A	2.5E-08	mg/kg-day	2.0E-02	mg/kg-day	1.3E-06
				Arsenic	2E+01	mg/kg	2.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.4E-08	2.3E-07	mg/kg-day	3.0E-04	mg/kg-day	7.6E-04
			Exp. Route Total								7E-08					8E-04
		Exposure Point Total									1E-07					3E-03

TABLE 3-7.1.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station 07/DP	Ingestion													
				Trichloroethene	2E-02	mg/kg	5.6E-11	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	2.3E-11	5.6E-10	mg/kg-day	3.0E-04	mg/kg-day	1.9E-06
				Benzo(a)anthracene	6E+00	mg/kg	1.4E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.0E-08	1.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	6E+00	mg/kg	1.4E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.0E-07	1.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+01	mg/kg	2.4E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.8E-08	2.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	9E+00	mg/kg	2.3E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.7E-09	2.3E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1E+00	mg/kg	2.8E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.0E-08	2.8E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	4E+00	mg/kg	9.8E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	7.2E-09	9.8E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	7E+00	mg/kg	1.7E-08	mg/kg-day	N/A	N/A	N/A	1.7E-07	mg/kg-day	2.0E-02	mg/kg-day	8.7E-06
				Aroclor 1260	7E-02	mg/kg	1.7E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	1.7E-10	1.7E-09	mg/kg-day	2.0E-05	mg/kg-day	8.4E-05
				Antimony	2E+00	mg/kg	5.9E-09	mg/kg-day	N/A	N/A	N/A	5.9E-08	mg/kg-day	4.0E-04	mg/kg-day	1.5E-04
				Arsenic	8E+01	mg/kg	2.0E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.6E-07	2.0E-06	mg/kg-day	5.9E-04	mg/kg-day	3.4E-03
				Barium	8E+01	mg/kg	2.1E-07	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	7.0E-02	mg/kg-day	3.1E-05
				Cadmium	5E+00	mg/kg	1.3E-08	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	1.0E-03	mg/kg-day	1.3E-04
				Chromium III	2E+02	mg/kg	6.3E-07	mg/kg-day	N/A	N/A	N/A	6.3E-06	mg/kg-day	1.5E+00	mg/kg-day	4.2E-06
				Copper	2E+02	mg/kg	6.0E-07	mg/kg-day	N/A	N/A	N/A	6.0E-06	mg/kg-day	3.0E-02	mg/kg-day	2.0E-04
				Lead												
				Manganese	4E+02	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.1E-05	mg/kg-day	7.0E-02	mg/kg-day	1.5E-04
				Mercury	3E+00	mg/kg	7.1E-09	mg/kg-day	N/A	N/A	N/A	7.1E-08	mg/kg-day	1.0E-04	mg/kg-day	7.1E-04
				Nickel	3E+01	mg/kg	7.0E-08	mg/kg-day	N/A	N/A	N/A	7.0E-07	mg/kg-day	2.0E-02	mg/kg-day	3.5E-05
				Thallium	2E+00	mg/kg	5.6E-09	mg/kg-day	N/A	N/A	N/A	5.6E-08	mg/kg-day	8.0E-05	mg/kg-day	7.0E-04
				Vanadium	5E+01	mg/kg	1.3E-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
				Zinc	1E+03	mg/kg	3.4E-06	mg/kg-day	N/A	N/A	N/A	3.4E-05	mg/kg-day	3.0E-01	mg/kg-day	1.1E-04
			Exp. Route Total								3E-07					7E-03
			Dermal													
				Benzo(a)anthracene	6E+00	mg/kg	2.9E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.2E-08	2.9E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	6E+00	mg/kg	2.9E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.1E-07	2.9E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+01	mg/kg	5.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.7E-08	5.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	9E+00	mg/kg	4.8E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	3.5E-09	4.8E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1E+00	mg/kg	5.7E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.2E-08	5.7E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	4E+00	mg/kg	2.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.5E-08	2.0E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	7E+00	mg/kg	3.6E-08	mg/kg-day	N/A	N/A	N/A	3.6E-07	mg/kg-day	2.0E-02	mg/kg-day	1.8E-05
				Aroclor 1260	7E-02	mg/kg	3.8E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	3.8E-10	3.8E-09	mg/kg-day	2.0E-05	mg/kg-day	1.9E-04
				Arsenic	8E+01	mg/kg	9.7E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.5E-07	9.7E-07	mg/kg-day	3.0E-04	mg/kg-day	3.2E-03
				Cadmium	5E+00	mg/kg	2.1E-09	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								5E-07					4E-03
		Exposure Point Total									8E-07					1E-02

TABLE 3-7.1.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station LP	Ingestion													
				Antimony	2E+00	mg/kg	4.9E-09	mg/kg-day	N/A	N/A	N/A	4.9E-08	mg/kg-day	4.0E-04	mg/kg-day	1.2E-04
				Arsenic	1E+02	mg/kg	3.8E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.9E-07	3.8E-06	mg/kg-day	5.9E-04	mg/kg-day	6.5E-03
				Barium	4E+01	mg/kg	1.0E-07	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	7.0E-02	mg/kg-day	1.5E-05
				Cadmium	3E+00	mg/kg	7.4E-09	mg/kg-day	N/A	N/A	N/A	7.4E-08	mg/kg-day	1.0E-03	mg/kg-day	7.4E-05
				Chromium III	9E+01	mg/kg	2.2E-07	mg/kg-day	N/A	N/A	N/A	2.2E-06	mg/kg-day	1.5E+00	mg/kg-day	1.5E-06
				Copper	5E+02	mg/kg	1.2E-06	mg/kg-day	N/A	N/A	N/A	1.2E-05	mg/kg-day	3.0E-02	mg/kg-day	4.1E-04
				Lead												
				Manganese	2E+02	mg/kg	5.3E-07	mg/kg-day	N/A	N/A	N/A	5.3E-06	mg/kg-day	7.0E-02	mg/kg-day	7.6E-05
				Mercury	8E-01	mg/kg	2.1E-09	mg/kg-day	N/A	N/A	N/A	2.1E-08	mg/kg-day	1.0E-04	mg/kg-day	2.1E-04
				Nickel	1E+01	mg/kg	3.7E-08	mg/kg-day	N/A	N/A	N/A	3.7E-07	mg/kg-day	2.0E-02	mg/kg-day	1.8E-05
				Thallium	2E+00	mg/kg	5.0E-09	mg/kg-day	N/A	N/A	N/A	5.0E-08	mg/kg-day	8.0E-05	mg/kg-day	6.3E-04
				Vanadium	2E+01	mg/kg	5.8E-08	mg/kg-day	N/A	N/A	N/A	5.8E-07	mg/kg-day	1.0E-03	mg/kg-day	5.8E-04
				Zinc	2E+03	mg/kg	4.3E-06	mg/kg-day	N/A	N/A	N/A	4.3E-05	mg/kg-day	3.0E-01	mg/kg-day	1.4E-04
			Exp. Route Total								3E-07					9E-03
			Dermal													
				Arsenic	1E+02	mg/kg	1.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.7E-07	1.8E-06	mg/kg-day	3.0E-04	mg/kg-day	6.1E-03
				Cadmium	3E+00	mg/kg	1.2E-09	mg/kg-day	N/A	N/A	N/A	1.2E-08	mg/kg-day	2.5E-05	mg/kg-day	4.7E-04
			Exp. Route Total								3E-07					7E-03
		Exposure Point Total									6E-07					2E-02
		Station AS	Ingestion													
				Antimony	3E+00	mg/kg	6.4E-09	mg/kg-day	N/A	N/A	N/A	6.4E-08	mg/kg-day	4.0E-04	mg/kg-day	1.6E-04
				Arsenic	1E+02	mg/kg	3.0E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.3E-07	3.0E-06	mg/kg-day	5.9E-04	mg/kg-day	5.0E-03
				Barium	1E+02	mg/kg	2.6E-07	mg/kg-day	N/A	N/A	N/A	2.6E-06	mg/kg-day	7.0E-02	mg/kg-day	3.7E-05
				Cadmium	1E+01	mg/kg	3.0E-08	mg/kg-day	N/A	N/A	N/A	3.0E-07	mg/kg-day	1.0E-03	mg/kg-day	3.0E-04
				Chromium III	7E+02	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
				Copper	5E+02	mg/kg	1.3E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	3.0E-02	mg/kg-day	4.3E-04
				Lead												
				Manganese	4E+02	mg/kg	9.7E-07	mg/kg-day	N/A	N/A	N/A	9.7E-06	mg/kg-day	7.0E-02	mg/kg-day	1.4E-04
				Mercury	3E+00	mg/kg	7.8E-09	mg/kg-day	N/A	N/A	N/A	7.8E-08	mg/kg-day	1.0E-04	mg/kg-day	7.8E-04
				Nickel	4E+01	mg/kg	9.5E-08	mg/kg-day	N/A	N/A	N/A	9.5E-07	mg/kg-day	2.0E-02	mg/kg-day	4.7E-05
				Thallium	1E+00	mg/kg	2.7E-09	mg/kg-day	N/A	N/A	N/A	2.7E-08	mg/kg-day	8.0E-05	mg/kg-day	3.4E-04
				Vanadium	7E+01	mg/kg	1.7E-07	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	2E+03	mg/kg	5.6E-06	mg/kg-day	N/A	N/A	N/A	5.6E-05	mg/kg-day	3.0E-01	mg/kg-day	1.9E-04
			Exp. Route Total								2E-07					9E-03
			Dermal													
				Arsenic	1E+02	mg/kg	1.4E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.1E-07	1.4E-06	mg/kg-day	3.0E-04	mg/kg-day	4.7E-03
				Cadmium	1E+01	mg/kg	4.9E-09	mg/kg-day	N/A	N/A	N/A	4.9E-08	mg/kg-day	2.5E-05	mg/kg-day	1.9E-03
			Exp. Route Total								2E-07					7E-03
		Exposure Point Total									4E-07					2E-02

TABLE 3-7.1.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station 05	Ingestion													
				Benzo(a)anthracene	4E-01	mg/kg	1.1E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	8.0E-10	1.1E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	3E-01	mg/kg	8.8E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	6.4E-09	8.8E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	4E-01	mg/kg	9.0E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.6E-10	9.0E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	3E-01	mg/kg	6.5E-10	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	4.7E-11	6.5E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	2E-01	mg/kg	4.4E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.2E-10	4.4E-09	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	7E-01	mg/kg	1.7E-09	mg/kg-day	N/A	N/A	N/A	1.7E-08	mg/kg-day	2.0E-02	mg/kg-day	8.7E-07
				Antimony	9E-01	mg/kg	2.4E-09	mg/kg-day	N/A	N/A	N/A	2.4E-08	mg/kg-day	4.0E-04	mg/kg-day	6.0E-05
				Arsenic	8E+00	mg/kg	2.1E-08	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.6E-08	2.1E-07	mg/kg-day	5.9E-04	mg/kg-day	3.6E-04
				Barium	3E+01	mg/kg	8.8E-08	mg/kg-day	N/A	N/A	N/A	8.8E-07	mg/kg-day	7.0E-02	mg/kg-day	1.3E-05
				Cadmium	2E-01	mg/kg	5.6E-10	mg/kg-day	N/A	N/A	N/A	5.6E-09	mg/kg-day	1.0E-03	mg/kg-day	5.6E-06
				Chromium III	3E+01	mg/kg	8.5E-08	mg/kg-day	N/A	N/A	N/A	8.5E-07	mg/kg-day	1.5E+00	mg/kg-day	5.7E-07
				Copper	3E+01	mg/kg	6.4E-08	mg/kg-day	N/A	N/A	N/A	6.4E-07	mg/kg-day	3.0E-02	mg/kg-day	2.1E-05
				Lead												
				Manganese	4E+02	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.1E-05	mg/kg-day	7.0E-02	mg/kg-day	1.5E-04
				Mercury	9E-02	mg/kg	2.3E-10	mg/kg-day	N/A	N/A	N/A	2.3E-09	mg/kg-day	1.0E-04	mg/kg-day	2.3E-05
				Nickel	1E+01	mg/kg	2.6E-08	mg/kg-day	N/A	N/A	N/A	2.6E-07	mg/kg-day	2.0E-02	mg/kg-day	1.3E-05
				Thallium	6E-01	mg/kg	1.6E-09	mg/kg-day	N/A	N/A	N/A	1.6E-08	mg/kg-day	8.0E-05	mg/kg-day	2.0E-04
				Vanadium	2E+01	mg/kg	4.8E-08	mg/kg-day	N/A	N/A	N/A	4.8E-07	mg/kg-day	1.0E-03	mg/kg-day	4.8E-04
				Zinc	1E+02	mg/kg	3.1E-07	mg/kg-day	N/A	N/A	N/A	3.1E-06	mg/kg-day	3.0E-01	mg/kg-day	1.0E-05
			Exp. Route Total								2E-08					1E-03
			Dermal													
				Benzo(a)anthracene	4E-01	mg/kg	2.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.7E-09	2.3E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	3E-01	mg/kg	1.8E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.3E-08	1.8E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	4E-01	mg/kg	1.9E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.4E-09	1.9E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	3E-01	mg/kg	1.3E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	9.8E-11	1.3E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	2E-01	mg/kg	9.1E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.7E-10	9.1E-09	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	7E-01	mg/kg	3.6E-09	mg/kg-day	N/A	N/A	N/A	3.6E-08	mg/kg-day	2.0E-02	mg/kg-day	1.8E-06
				Arsenic	8E+00	mg/kg	1.0E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.5E-08	1.0E-07	mg/kg-day	3.0E-04	mg/kg-day	3.3E-04
				Cadmium	2E-01	mg/kg	8.9E-11	mg/kg-day	N/A	N/A	N/A	8.9E-10	mg/kg-day	2.5E-05	mg/kg-day	3.6E-05
			Exp. Route Total								3E-08					4E-04
		Exposure Point Total									6E-08					2E-03

TABLE 3-7.1.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station 03	Ingestion													
				Benzo(a)anthracene	6E-01	mg/kg	1.4E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.0E-09	1.4E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	5E-01	mg/kg	1.2E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	8.6E-09	1.2E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	6E-01	mg/kg	1.5E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.1E-09	1.5E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	3E-01	mg/kg	8.8E-10	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	6.4E-11	8.8E-09	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1E-01	mg/kg	2.8E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.0E-09	2.8E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	mg/kg	8.6E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.3E-10	8.6E-09	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	1.2E-09	mg/kg-day	N/A	N/A	N/A	1.2E-08	mg/kg-day	2.0E-02	mg/kg-day	5.9E-07
				Aroclor 1260	5E-02	mg/kg	1.3E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	1.3E-10	1.3E-09	mg/kg-day	2.0E-05	mg/kg-day	6.3E-05
				Antimony	8E-01	mg/kg	2.0E-09	mg/kg-day	N/A	N/A	N/A	2.0E-08	mg/kg-day	4.0E-04	mg/kg-day	5.1E-05
				Arsenic	3E+01	mg/kg	8.4E-08	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	6.5E-08	8.4E-07	mg/kg-day	5.9E-04	mg/kg-day	1.4E-03
				Barium	4E+01	mg/kg	8.9E-08	mg/kg-day	N/A	N/A	N/A	8.9E-07	mg/kg-day	7.0E-02	mg/kg-day	1.3E-05
				Cadmium	2E+00	mg/kg	4.4E-09	mg/kg-day	N/A	N/A	N/A	4.4E-08	mg/kg-day	1.0E-03	mg/kg-day	4.4E-05
				Chromium III	7E+01	mg/kg	1.9E-07	mg/kg-day	N/A	N/A	N/A	1.9E-06	mg/kg-day	1.5E+00	mg/kg-day	1.2E-06
				Copper	6E+01	mg/kg	1.6E-07	mg/kg-day	N/A	N/A	N/A	1.6E-06	mg/kg-day	3.0E-02	mg/kg-day	5.2E-05
				Lead												
				Manganese	2E+02	mg/kg	5.5E-07	mg/kg-day	N/A	N/A	N/A	5.5E-06	mg/kg-day	7.0E-02	mg/kg-day	7.8E-05
				Mercury	3E-01	mg/kg	6.7E-10	mg/kg-day	N/A	N/A	N/A	6.7E-09	mg/kg-day	1.0E-04	mg/kg-day	6.7E-05
				Nickel	1E+01	mg/kg	3.1E-08	mg/kg-day	N/A	N/A	N/A	3.1E-07	mg/kg-day	2.0E-02	mg/kg-day	1.6E-05
				Vanadium	2E+01	mg/kg	5.7E-08	mg/kg-day	N/A	N/A	N/A	5.7E-07	mg/kg-day	1.0E-03	mg/kg-day	5.7E-04
				Zinc	5E+02	mg/kg	1.3E-06	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								8E-08					2E-03
			Dermal													
				Benzo(a)anthracene	6E-01	mg/kg	3.0E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.2E-09	3.0E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	5E-01	mg/kg	2.5E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.8E-08	2.5E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	6E-01	mg/kg	3.2E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.3E-09	3.2E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	3E-01	mg/kg	1.8E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.3E-10	1.8E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1E-01	mg/kg	5.8E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.2E-09	5.8E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	mg/kg	1.8E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.3E-09	1.8E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	2.5E-09	mg/kg-day	N/A	N/A	N/A	2.5E-08	mg/kg-day	2.0E-02	mg/kg-day	1.2E-06
				Aroclor 1260	5E-02	mg/kg	2.8E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	2.8E-10	2.8E-09	mg/kg-day	2.0E-05	mg/kg-day	1.4E-04
				Arsenic	3E+01	mg/kg	4.0E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.0E-08	4.0E-07	mg/kg-day	3.0E-04	mg/kg-day	1.3E-03
				Cadmium	2E+00	mg/kg	7.1E-10	mg/kg-day	N/A	N/A	N/A	7.1E-09	mg/kg-day	2.5E-05	mg/kg-day	2.8E-04
			Exp. Route Total								9E-08					2E-03
		Exposure Point Total									2E-07					4E-03

TABLE 3-7.1.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station 01	Ingestion													
				Benzo(a)anthracene	2E-01	mg/kg	4.9E-10	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	3.6E-10	4.9E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	4.4E-10	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	3.2E-09	4.4E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E-01	mg/kg	4.2E-10	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	3.1E-10	4.2E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E-01	mg/kg	4.5E-10	mg/kg-day	7.3E-02	(mg/kg-day)$^{-1}$	3.3E-11	4.5E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	3.1E-10	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	2.2E-10	3.1E-09	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	1.2E-09	mg/kg-day	N/A	N/A	N/A	1.2E-08	mg/kg-day	2.0E-02	mg/kg-day	5.9E-07
				Antimony	9E-01	mg/kg	2.2E-09	mg/kg-day	N/A	N/A	N/A	2.2E-08	mg/kg-day	4.0E-04	mg/kg-day	5.6E-05
				Arsenic	6E+00	mg/kg	1.6E-08	mg/kg-day	7.7E-01	(mg/kg-day)$^{-1}$	1.2E-08	1.6E-07	mg/kg-day	5.9E-04	mg/kg-day	2.7E-04
				Barium	1E+01	mg/kg	3.1E-08	mg/kg-day	N/A	N/A	N/A	3.1E-07	mg/kg-day	7.0E-02	mg/kg-day	4.5E-06
				Cadmium	2E-01	mg/kg	4.2E-10	mg/kg-day	N/A	N/A	N/A	4.2E-09	mg/kg-day	1.0E-03	mg/kg-day	4.2E-06
				Chromium III	8E+00	mg/kg	2.1E-08	mg/kg-day	N/A	N/A	N/A	2.1E-07	mg/kg-day	1.5E+00	mg/kg-day	1.4E-07
				Copper	1E+01	mg/kg	3.0E-08	mg/kg-day	N/A	N/A	N/A	3.0E-07	mg/kg-day	3.0E-02	mg/kg-day	9.9E-06
				Lead												
				Manganese	8E+01	mg/kg	2.1E-07	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	7.0E-02	mg/kg-day	3.0E-05
				Nickel	6E+00	mg/kg	1.6E-08	mg/kg-day	N/A	N/A	N/A	1.6E-07	mg/kg-day	2.0E-02	mg/kg-day	8.1E-06
				Thallium	5E-01	mg/kg	1.3E-09	mg/kg-day	N/A	N/A	N/A	1.3E-08	mg/kg-day	8.0E-05	mg/kg-day	1.6E-04
				Vanadium	1E+01	mg/kg	2.4E-08	mg/kg-day	N/A	N/A	N/A	2.4E-07	mg/kg-day	1.0E-03	mg/kg-day	2.4E-04
				Zinc	1E+02	mg/kg	2.6E-07	mg/kg-day	N/A	N/A	N/A	2.6E-06	mg/kg-day	3.0E-01	mg/kg-day	8.7E-06
			Exp. Route Total								2E-08					8E-04
			Dermal													
				Benzo(a)anthracene	2E-01	mg/kg	1.0E-09	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	7.4E-10	1.0E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	9.2E-10	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	6.7E-09	9.2E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E-01	mg/kg	8.7E-10	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	6.4E-10	8.7E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E-01	mg/kg	9.3E-10	mg/kg-day	7.3E-02	(mg/kg-day)$^{-1}$	6.8E-11	9.3E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	6.3E-10	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	4.6E-10	6.3E-09	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	2.4E-09	mg/kg-day	N/A	N/A	N/A	2.4E-08	mg/kg-day	2.0E-02	mg/kg-day	1.2E-06
				Arsenic	6E+00	mg/kg	7.5E-09	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	1.1E-08	7.5E-08	mg/kg-day	3.0E-04	mg/kg-day	2.5E-04
				Cadmium	2E-01	mg/kg	6.8E-11	mg/kg-day	N/A	N/A	N/A	6.8E-10	mg/kg-day	2.5E-05	mg/kg-day	2.7E-05
			Exp. Route Total								2E-08					3E-04
		Exposure Point Total									4E-08					1E-03
	Exposure Medium Total										N/A					N/A

TABLE 3-7.1.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Soil	Surface Soil	Station NR	Ingestion													
				Arsenic	2E+02	mg/kg	5.1E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	7.7E-07	5.1E-06	mg/kg-day	3.0E-04	mg/kg-day	1.7E-02
				Cadmium	2E+00	mg/kg	5.4E-09	mg/kg-day	N/A	N/A	N/A	5.4E-08	mg/kg-day	1.0E-03	mg/kg-day	5.4E-05
				Chromium VI	2E+02	mg/kg	4.4E-07	mg/kg-day	N/A	N/A	N/A	4.4E-06	mg/kg-day	3.0E-03	mg/kg-day	1.5E-03
				Copper	2E+02	mg/kg	4.4E-07	mg/kg-day	N/A	N/A	N/A	4.4E-06	mg/kg-day	3.0E-02	mg/kg-day	1.5E-04
				Manganese	3E+02	mg/kg	7.8E-07	mg/kg-day	N/A	N/A	N/A	7.8E-06	mg/kg-day	7.0E-02	mg/kg-day	1.1E-04
				Mercury	8E-01	mg/kg	2.0E-09	mg/kg-day	N/A	N/A	N/A	2.0E-08	mg/kg-day	1.0E-04	mg/kg-day	2.0E-04
				Vanadium	3E+01	mg/kg	6.4E-08	mg/kg-day	N/A	N/A	N/A	6.4E-07	mg/kg-day	1.0E-03	mg/kg-day	6.4E-04
				Zinc	5E+02	mg/kg	1.3E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	3.0E-01	mg/kg-day	4.5E-05
			Exp. Route Total								8E-07					2E-02
			Dermal													
				Arsenic	2E+02	mg/kg	2.4E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.7E-07	2.4E-06	mg/kg-day	3.0E-04	mg/kg-day	8.1E-03
				Cadmium	2E+00	mg/kg	8.7E-10	mg/kg-day	N/A	N/A	N/A	8.7E-09	mg/kg-day	2.5E-05	mg/kg-day	3.5E-04
			Exp. Route Total								4E-07					8E-03
		Exposure Point Total									1E-06					3E-02
		Station WS/WSS	Ingestion													
				Arsenic	1E+01	mg/kg	7.6E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.1E-07	7.6E-07	mg/kg-day	3.0E-04	mg/kg-day	2.5E-03
				Cadmium	2E-01	mg/kg	1.5E-09	mg/kg-day	N/A	N/A	N/A	1.5E-08	mg/kg-day	1.0E-03	mg/kg-day	1.5E-05
				Chromium VI	2E+01	mg/kg	1.4E-07	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	3.0E-03	mg/kg-day	4.7E-04
				Copper	3E+01	mg/kg	2.0E-07	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	3.0E-02	mg/kg-day	6.8E-05
				Manganese	2E+02	mg/kg	1.4E-06	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	7.0E-02	mg/kg-day	2.1E-04
				Mercury	1E-01	mg/kg	9.0E-10	mg/kg-day	N/A	N/A	N/A	9.0E-09	mg/kg-day	1.0E-04	mg/kg-day	9.0E-05
				Thallium	1E+00	mg/kg	9.1E-09	mg/kg-day	N/A	N/A	N/A	9.1E-08	mg/kg-day	8.0E-05	mg/kg-day	1.1E-03
				Vanadium	2E+01	mg/kg	1.8E-07	mg/kg-day	N/A	N/A	N/A	1.8E-06	mg/kg-day	1.0E-03	mg/kg-day	1.8E-03
				Zinc	7E+01	mg/kg	5.5E-07	mg/kg-day	N/A	N/A	N/A	5.5E-06	mg/kg-day	3.0E-01	mg/kg-day	1.8E-05
			Exp. Route Total								1E-07					6E-03
			Dermal													
				Arsenic	1E+01	mg/kg	3.7E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.5E-08	3.7E-07	mg/kg-day	3.0E-04	mg/kg-day	1.2E-03
				Cadmium	2E-01	mg/kg	2.4E-10	mg/kg-day	N/A	N/A	N/A	2.4E-09	mg/kg-day	2.5E-05	mg/kg-day	9.5E-05
			Exp. Route Total								5E-08					1E-03
		Exposure Point Total									2E-07					8E-03

TABLE 3-7.1.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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				
							Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
					Value	Units	Value	Units	Value	Units		Value	Units	Value	Units	
Soil (cont.)	Surface Soil (cont.)	Station CB-05	Ingestion													
				Arsenic	6E+01	mg/kg	4.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.8E-07	4.6E-06	mg/kg-day	3.0E-04	mg/kg-day	1.5E-02
				Cadmium	7E-01	mg/kg	5.2E-09	mg/kg-day	N/A	N/A	N/A	5.2E-08	mg/kg-day	1.0E-03	mg/kg-day	5.2E-05
				Chromium VI	1E+02	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.1E-05	mg/kg-day	3.0E-03	mg/kg-day	3.5E-03
				Copper	5E+01	mg/kg	3.8E-07	mg/kg-day	N/A	N/A	N/A	3.8E-06	mg/kg-day	3.0E-02	mg/kg-day	1.3E-04
				Manganese	2E+02	mg/kg	1.7E-06	mg/kg-day	N/A	N/A	N/A	1.7E-05	mg/kg-day	7.0E-02	mg/kg-day	2.5E-04
				Mercury	3E-01	mg/kg	2.2E-09	mg/kg-day	N/A	N/A	N/A	2.2E-08	mg/kg-day	1.0E-04	mg/kg-day	2.2E-04
				Thallium	2E+00	mg/kg	1.3E-08	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	3E+01	mg/kg	2.0E-07	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	1.0E-03	mg/kg-day	2.0E-03
				Zinc	2E+02	mg/kg	1.3E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	3.0E-01	mg/kg-day	4.2E-05
			Exp. Route Total								7E-07					2E-02
			Dermal													
				Arsenic	6E+01	mg/kg	2.2E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.3E-07	2.2E-06	mg/kg-day	3.0E-04	mg/kg-day	7.3E-03
				Cadmium	7E-01	mg/kg	8.3E-10	mg/kg-day	N/A	N/A	N/A	8.3E-09	mg/kg-day	2.5E-05	mg/kg-day	3.3E-04
			Exp. Route Total								3E-07					8E-03
		Exposure Point Total									1E-06					3E-02
		Station DA	Ingestion													
				Arsenic	2E+02	mg/kg	5.0E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	7.4E-07	5.0E-06	mg/kg-day	3.0E-04	mg/kg-day	1.7E-02
				Cadmium	1E+00	mg/kg	3.4E-09	mg/kg-day	N/A	N/A	N/A	3.4E-08	mg/kg-day	1.0E-03	mg/kg-day	3.4E-05
				Chromium VI	4E+02	mg/kg	9.9E-07	mg/kg-day	N/A	N/A	N/A	9.9E-06	mg/kg-day	3.0E-03	mg/kg-day	3.3E-03
				Copper	2E+02	mg/kg	6.3E-07	mg/kg-day	N/A	N/A	N/A	6.3E-06	mg/kg-day	3.0E-02	mg/kg-day	2.1E-04
				Manganese	8E+02	mg/kg	2.0E-06	mg/kg-day	N/A	N/A	N/A	2.0E-05	mg/kg-day	7.0E-02	mg/kg-day	2.9E-04
				Mercury	1E+00	mg/kg	3.0E-09	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	3E+00	mg/kg	8.5E-09	mg/kg-day	N/A	N/A	N/A	8.5E-08	mg/kg-day	8.0E-05	mg/kg-day	1.1E-03
				Vanadium	4E+01	mg/kg	9.6E-08	mg/kg-day	N/A	N/A	N/A	9.6E-07	mg/kg-day	1.0E-03	mg/kg-day	9.6E-04
				Zinc	6E+02	mg/kg	1.5E-06	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	3.0E-01	mg/kg-day	5.0E-05
			Exp. Route Total								7E-07					2E-02
			Dermal													
				Arsenic	2E+02	mg/kg	2.4E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.6E-07	2.4E-06	mg/kg-day	3.0E-04	mg/kg-day	7.9E-03
				Cadmium	1E+00	mg/kg	5.5E-10	mg/kg-day	N/A	N/A	N/A	5.5E-09	mg/kg-day	2.5E-05	mg/kg-day	2.2E-04
			Exp. Route Total								4E-07					8E-03
		Exposure Point Total									1E-06					3E-02

TABLE 3-7.1.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Soil (cont.)	Surface Soil (cont.)	Station KF	Ingestion													
				Arsenic	5E+01	mg/kg	1.2E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.7E-07	1.2E-06	mg/kg-day	3.0E-04	mg/kg-day	3.9E-03
				Cadmium	1E+00	mg/kg	3.6E-09	mg/kg-day	N/A	N/A	N/A	3.6E-08	mg/kg-day	1.0E-03	mg/kg-day	3.6E-05
				Chromium VI	1E+02	mg/kg	3.0E-07	mg/kg-day	N/A	N/A	N/A	3.0E-06	mg/kg-day	3.0E-03	mg/kg-day	1.0E-03
				Copper	1E+02	mg/kg	2.8E-07	mg/kg-day	N/A	N/A	N/A	2.8E-06	mg/kg-day	3.0E-02	mg/kg-day	9.2E-05
				Manganese	8E+02	mg/kg	2.1E-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	7E-01	mg/kg	1.8E-09	mg/kg-day	N/A	N/A	N/A	1.8E-08	mg/kg-day	1.0E-04	mg/kg-day	1.8E-04
				Vanadium	3E+01	mg/kg	7.4E-08	mg/kg-day	N/A	N/A	N/A	7.4E-07	mg/kg-day	1.0E-03	mg/kg-day	7.4E-04
				Zinc	4E+02	mg/kg	9.9E-07	mg/kg-day	N/A	N/A	N/A	9.9E-06	mg/kg-day	3.0E-01	mg/kg-day	3.3E-05
			Exp. Route Total								2E-07					6E-03
			Dermal													
				Arsenic	5E+01	mg/kg	5.6E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	8.4E-08	5.6E-07	mg/kg-day	3.0E-04	mg/kg-day	1.9E-03
				Cadmium	1E+00	mg/kg	5.7E-10	mg/kg-day	N/A	N/A	N/A	5.7E-09	mg/kg-day	2.5E-05	mg/kg-day	2.3E-04
			Exp. Route Total								8E-08					2E-03
		Exposure Point Total									3E-07					8E-03
		Station 07/DP	Ingestion													
				Arsenic	4E+01	mg/kg	1.1E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.7E-07	1.1E-06	mg/kg-day	3.0E-04	mg/kg-day	3.8E-03
				Cadmium	2E-01	mg/kg	4.8E-10	mg/kg-day	N/A	N/A	N/A	4.8E-09	mg/kg-day	1.0E-03	mg/kg-day	4.8E-06
				Chromium VI	1E+02	mg/kg	3.6E-07	mg/kg-day	N/A	N/A	N/A	3.6E-06	mg/kg-day	3.0E-03	mg/kg-day	1.2E-03
				Copper	1E+02	mg/kg	2.6E-07	mg/kg-day	N/A	N/A	N/A	2.6E-06	mg/kg-day	3.0E-02	mg/kg-day	8.6E-05
				Manganese	3E+02	mg/kg	8.4E-07	mg/kg-day	N/A	N/A	N/A	8.4E-06	mg/kg-day	7.0E-02	mg/kg-day	1.2E-04
				Mercury	1E+00	mg/kg	2.4E-09	mg/kg-day	N/A	N/A	N/A	2.4E-08	mg/kg-day	1.0E-04	mg/kg-day	2.4E-04
				Thallium	2E+00	mg/kg	4.8E-09	mg/kg-day	N/A	N/A	N/A	4.8E-08	mg/kg-day	8.0E-05	mg/kg-day	6.0E-04
				Vanadium	3E+01	mg/kg	8.0E-08	mg/kg-day	N/A	N/A	N/A	8.0E-07	mg/kg-day	1.0E-03	mg/kg-day	8.0E-04
				Zinc	2E+04	mg/kg	4.8E-05	mg/kg-day	N/A	N/A	N/A	4.8E-04	mg/kg-day	3.0E-01	mg/kg-day	1.6E-03
			Exp. Route Total								2E-07					8E-03
			Dermal													
				Arsenic	4E+01	mg/kg	5.4E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	8.1E-08	5.4E-07	mg/kg-day	3.0E-04	mg/kg-day	1.8E-03
				Cadmium	2E-01	mg/kg	7.7E-11	mg/kg-day	N/A	N/A	N/A	7.7E-10	mg/kg-day	2.5E-05	mg/kg-day	3.1E-05
			Exp. Route Total								8E-08					2E-03
		Exposure Point Total									3E-07					1E-02
	Exposure Medium Total										N/A					N/A

TABLE 3-7.1.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	Fish Fillet Tissue	Fillet, Reach 3	Ingestion													
				4,4'-DDD	7E-03	mg/kg	2.4E-08	mg/kg-day	2.4E-01	(mg/kg-day) $^{-1}$	5.7E-09	2.4E-07	mg/kg-day	2.0E-03	mg/kg-day	1.2E-04
				4,4'-DDE	2E-02	mg/kg	5.7E-08	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	1.9E-08	5.7E-07	mg/kg-day	3.0E-04	mg/kg-day	1.9E-03
				4,4'-DDT	3E-03	mg/kg	1.0E-08	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	3.4E-09	1.0E-07	mg/kg-day	5.0E-04	mg/kg-day	2.0E-04
				Aldrin	3E-04	mg/kg	1.1E-09	mg/kg-day	1.7E+01	(mg/kg-day) $^{-1}$	1.9E-08	1.1E-08	mg/kg-day	3.0E-05	mg/kg-day	3.8E-04
				alpha-Chlordane	6E-03	mg/kg	2.1E-08	mg/kg-day	3.5E-01	(mg/kg-day) $^{-1}$	7.2E-09	2.1E-07	mg/kg-day	5.0E-04	mg/kg-day	4.1E-04
				Aroclor-1254	2E-02	mg/kg	7.8E-08	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	7.8E-08	7.8E-07	mg/kg-day	2.0E-05	mg/kg-day	3.9E-02
				Aroclor-1260	6E-02	mg/kg	2.2E-07	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	2.2E-07	2.2E-06	mg/kg-day	2.0E-05	mg/kg-day	1.1E-01
				delta-BHC	5E-04	mg/kg	1.9E-09	mg/kg-day	N/A	N/A	N/A	1.9E-08	mg/kg-day	3.0E-04	mg/kg-day	6.4E-05
				Dieldrin	2E-03	mg/kg	7.9E-09	mg/kg-day	1.6E+01	(mg/kg-day) $^{-1}$	1.3E-07	7.9E-08	mg/kg-day	5.0E-05	mg/kg-day	1.6E-03
				Heptachlor epoxide	8E-04	mg/kg	3.0E-09	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	2.8E-08	3.0E-08	mg/kg-day	1.3E-05	mg/kg-day	2.3E-03
				Antimony	9E-02	mg/kg	3.4E-07	mg/kg-day	N/A	N/A	N/A	3.4E-06	mg/kg-day	4.0E-04	mg/kg-day	8.5E-03
				Lead												
				Mercury	4E-01	mg/kg	1.3E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	1.0E-04	mg/kg-day	1.3E-01
				Selenium	6E-01	mg/kg	2.0E-06	mg/kg-day	N/A	N/A	N/A	2.0E-05	mg/kg-day	5.0E-03	mg/kg-day	4.1E-03
			Exp. Route Total								5E-07					3E-01
		Exposure Point Total									5E-07					3E-01
		Fillet, Reaches 4 and 5	Ingestion													
				4,4'-DDD	2E-02	mg/kg	5.6E-08	mg/kg-day	2.4E-01	(mg/kg-day) $^{-1}$	1.4E-08	5.6E-07	mg/kg-day	2.0E-03	mg/kg-day	2.8E-04
				4,4'-DDE	9E-02	mg/kg	3.1E-07	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	1.0E-07	3.1E-06	mg/kg-day	3.0E-04	mg/kg-day	1.0E-02
				4,4'-DDT	8E-03	mg/kg	2.9E-08	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	9.8E-09	2.9E-07	mg/kg-day	5.0E-04	mg/kg-day	5.8E-04
				Aldrin	5E-04	mg/kg	1.9E-09	mg/kg-day	1.7E+01	(mg/kg-day) $^{-1}$	3.2E-08	1.9E-08	mg/kg-day	3.0E-05	mg/kg-day	6.3E-04
				alpha-Chlordane	3E-03	mg/kg	9.1E-09	mg/kg-day	3.5E-01	(mg/kg-day) $^{-1}$	3.2E-09	9.1E-08	mg/kg-day	5.0E-04	mg/kg-day	1.8E-04
				Aroclor-1254	9E-02	mg/kg	3.1E-07	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	3.1E-07	3.1E-06	mg/kg-day	2.0E-05	mg/kg-day	1.5E-01
				Aroclor-1260	2E-01	mg/kg	6.7E-07	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	6.7E-07	6.7E-06	mg/kg-day	2.0E-05	mg/kg-day	3.4E-01
				Dieldrin	1E-03	mg/kg	5.3E-09	mg/kg-day	1.6E+01	(mg/kg-day) $^{-1}$	8.4E-08	5.3E-08	mg/kg-day	5.0E-05	mg/kg-day	1.1E-03
				Antimony	8E-02	mg/kg	2.7E-07	mg/kg-day	N/A	N/A	N/A	2.7E-06	mg/kg-day	4.0E-04	mg/kg-day	6.8E-03
				Lead												
				Mercury	3E-01	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.1E-05	mg/kg-day	1.0E-04	mg/kg-day	1.1E-01
				Selenium	7E-01	mg/kg	2.4E-06	mg/kg-day	N/A	N/A	N/A	2.4E-05	mg/kg-day	5.0E-03	mg/kg-day	4.8E-03
			Exp. Route Total								1E-06					6E-01
		Exposure Point Total									1E-06					6E-01

TABLE 3-7.1.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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 (cont.)	Fish Fillet Tissue (cont.)	Fillet, Reach 6	Ingestion													
				4,4'-DDD	2E-02	mg/kg	7.1E-08	mg/kg-day	2.4E-01	(mg/kg-day) $^{-1}$	1.7E-08	7.1E-07	mg/kg-day	2.0E-03	mg/kg-day	3.6E-04
				4,4'-DDE	6E-02	mg/kg	2.1E-07	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	7.1E-08	2.1E-06	mg/kg-day	3.0E-04	mg/kg-day	6.9E-03
				4,4'-DDT	5E-03	mg/kg	1.7E-08	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	5.7E-09	1.7E-07	mg/kg-day	5.0E-04	mg/kg-day	3.3E-04
				Aldrin	5E-04	mg/kg	1.9E-09	mg/kg-day	1.7E+01	(mg/kg-day) $^{-1}$	3.2E-08	1.9E-08	mg/kg-day	3.0E-05	mg/kg-day	6.3E-04
				alpha-Chlordane	8E-03	mg/kg	3.0E-08	mg/kg-day	3.5E-01	(mg/kg-day) $^{-1}$	1.0E-08	3.0E-07	mg/kg-day	5.0E-04	mg/kg-day	6.0E-04
				Aroclor-1248	8E-03	mg/kg	2.8E-08	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	2.8E-08	2.8E-07	mg/kg-day	2.0E-05	mg/kg-day	1.4E-02
				Aroclor-1254	1E-01	mg/kg	4.6E-07	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	4.6E-07	4.6E-06	mg/kg-day	2.0E-05	mg/kg-day	2.3E-01
				Aroclor-1260	8E-02	mg/kg	2.8E-07	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	2.8E-07	2.8E-06	mg/kg-day	2.0E-05	mg/kg-day	1.4E-01
				Dieldrin	2E-03	mg/kg	7.6E-09	mg/kg-day	1.6E+01	(mg/kg-day) $^{-1}$	1.2E-07	7.6E-08	mg/kg-day	5.0E-05	mg/kg-day	1.5E-03
				Heptachlor epoxide	5E-04	mg/kg	1.9E-09	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	1.7E-08	1.9E-08	mg/kg-day	1.3E-05	mg/kg-day	1.5E-03
				Arsenic	2E-01	mg/kg	5.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	8.4E-07	5.6E-06	mg/kg-day	3.0E-04	mg/kg-day	1.9E-02
				Lead												
				Mercury	1E-01	mg/kg	5.2E-07	mg/kg-day	N/A	N/A	N/A	5.2E-06	mg/kg-day	1.0E-04	mg/kg-day	5.2E-02
				Selenium	6E-01	mg/kg	2.2E-06	mg/kg-day	N/A	N/A	N/A	2.2E-05	mg/kg-day	5.0E-03	mg/kg-day	4.5E-03
			Exp. Route Total								2E-06					5E-01
		Exposure Point Total									2E-06					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 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	Surface Water	Station NR (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	5.2E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	4.7E-09	5.2E-10	mg/kg-day	1.3E-05	mg/kg-day	4.0E-05
				Arsenic	5E+01	ug/L	1.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.8E-07	5.4E-07	mg/kg-day	3.0E-04	mg/kg-day	1.8E-03
				Cadmium	3E+00	ug/L	9.9E-09	mg/kg-day	N/A	N/A	N/A	2.9E-08	mg/kg-day	2.5E-05	mg/kg-day	1.2E-03
				Chromium VI	6E+01	ug/L	4.7E-07	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	7.5E-05	mg/kg-day	1.8E-02
				Lead												
				Manganese	6E+02	ug/L	2.3E-06	mg/kg-day	N/A	N/A	N/A	6.7E-06	mg/kg-day	2.8E-03	mg/kg-day	2.4E-03
				Mercury	6E-01	ug/L	2.4E-09	mg/kg-day	N/A	N/A	N/A	7.1E-09	mg/kg-day	2.1E-05	mg/kg-day	3.4E-04
			Exp. Route Total								3E-07					2E-02
		Exposure Point Total									3E-07					2E-02
		Station 14 (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	5.2E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	4.7E-09	5.2E-10	mg/kg-day	1.3E-05	mg/kg-day	4.0E-05
				Arsenic	5E+01	ug/L	1.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.8E-07	5.4E-07	mg/kg-day	3.0E-04	mg/kg-day	1.8E-03
				Cadmium	3E+00	ug/L	9.9E-09	mg/kg-day	N/A	N/A	N/A	2.9E-08	mg/kg-day	2.5E-05	mg/kg-day	1.2E-03
				Chromium VI	6E+01	ug/L	4.7E-07	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	7.5E-05	mg/kg-day	1.8E-02
				Lead												
				Manganese	6E+02	ug/L	2.3E-06	mg/kg-day	N/A	N/A	N/A	6.7E-06	mg/kg-day	2.8E-03	mg/kg-day	2.4E-03
				Mercury	6E-01	ug/L	2.4E-09	mg/kg-day	N/A	N/A	N/A	7.1E-09	mg/kg-day	2.1E-05	mg/kg-day	3.4E-04
			Exp. Route Total								3E-07					2E-02
		Exposure Point Total									3E-07					2E-02
		Station 22/11-22 (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	7.8E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	7.1E-09	2.3E-09	mg/kg-day	1.3E-05	mg/kg-day	1.7E-04
				Arsenic	5E+01	ug/L	2.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.1E-07	8.1E-07	mg/kg-day	3.0E-04	mg/kg-day	2.7E-03
				Cadmium	3E+00	ug/L	1.5E-08	mg/kg-day	N/A	N/A	N/A	4.4E-08	mg/kg-day	2.5E-05	mg/kg-day	1.7E-03
				Chromium VI	6E+01	ug/L	7.0E-07	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	7.5E-05	mg/kg-day	2.7E-02
				Lead												
				Manganese	6E+02	ug/L	3.5E-06	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	2.8E-03	mg/kg-day	3.6E-03
				Mercury	6E-01	ug/L	3.6E-09	mg/kg-day	N/A	N/A	N/A	1.1E-08	mg/kg-day	2.1E-05	mg/kg-day	5.1E-04
			Exp. Route Total								4E-07					4E-02
		Exposure Point Total									4E-07					4E-02

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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 (cont.)	Surface Water (cont.)	Station 13/TT-27 (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	7.8E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	7.1E-09	2.3E-09	mg/kg-day	1.3E-05	mg/kg-day	1.7E-04
				Arsenic	5E+01	ug/L	2.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.1E-07	8.1E-07	mg/kg-day	3.0E-04	mg/kg-day	2.7E-03
				Cadmium	3E+00	ug/L	1.5E-08	mg/kg-day	N/A	N/A	N/A	4.4E-08	mg/kg-day	2.5E-05	mg/kg-day	1.7E-03
				Chromium VI	6E+01	ug/L	7.0E-07	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	7.5E-05	mg/kg-day	2.7E-02
				Lead												
				Manganese	6E+02	ug/L	3.5E-06	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	2.8E-03	mg/kg-day	3.6E-03
				Mercury	6E-01	ug/L	3.6E-09	mg/kg-day	N/A	N/A	N/A	1.1E-08	mg/kg-day	2.1E-05	mg/kg-day	5.1E-04
			Exp. Route Total								4E-07					4E-02
		Exposure Point Total									4E-07					4E-02
		Station WH (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	7.8E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	7.1E-09	2.3E-09	mg/kg-day	1.3E-05	mg/kg-day	1.7E-04
				Arsenic	5E+01	ug/L	2.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.1E-07	8.1E-07	mg/kg-day	3.0E-04	mg/kg-day	2.7E-03
				Cadmium	3E+00	ug/L	1.5E-08	mg/kg-day	N/A	N/A	N/A	4.4E-08	mg/kg-day	2.5E-05	mg/kg-day	1.7E-03
				Chromium VI	6E+01	ug/L	7.0E-07	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	7.5E-05	mg/kg-day	2.7E-02
				Lead												
				Manganese	6E+02	ug/L	3.5E-06	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	2.8E-03	mg/kg-day	3.6E-03
				Mercury	6E-01	ug/L	3.6E-09	mg/kg-day	N/A	N/A	N/A	1.1E-08	mg/kg-day	2.1E-05	mg/kg-day	5.1E-04
			Exp. Route Total								4E-07					4E-02
		Exposure Point Total									4E-07					4E-02
		Station NT-1 (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	7.8E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	7.1E-09	2.3E-09	mg/kg-day	1.3E-05	mg/kg-day	1.7E-04
				Arsenic	5E+01	ug/L	2.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.1E-07	8.1E-07	mg/kg-day	3.0E-04	mg/kg-day	2.7E-03
				Cadmium	3E+00	ug/L	1.5E-08	mg/kg-day	N/A	N/A	N/A	4.4E-08	mg/kg-day	2.5E-05	mg/kg-day	1.7E-03
				Chromium VI	6E+01	ug/L	7.0E-07	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	7.5E-05	mg/kg-day	2.7E-02
				Lead												
				Manganese	6E+02	ug/L	3.5E-06	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	2.8E-03	mg/kg-day	3.6E-03
				Mercury	6E-01	ug/L	3.6E-09	mg/kg-day	N/A	N/A	N/A	1.1E-08	mg/kg-day	2.1E-05	mg/kg-day	5.1E-04
			Exp. Route Total								4E-07					4E-02
		Exposure Point Total									4E-07					4E-02

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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 (cont.)	Surface Water (cont.)	Station NT-2 (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	7.8E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	7.1E-09	2.3E-09	mg/kg-day	1.3E-05	mg/kg-day	1.7E-04
				Arsenic	5E+01	ug/L	2.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.1E-07	8.1E-07	mg/kg-day	3.0E-04	mg/kg-day	2.7E-03
				Cadmium	3E+00	ug/L	1.5E-08	mg/kg-day	N/A	N/A	N/A	4.4E-08	mg/kg-day	2.5E-05	mg/kg-day	1.7E-03
				Chromium VI	6E+01	ug/L	7.0E-07	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	7.5E-05	mg/kg-day	2.7E-02
				Lead												
				Manganese	6E+02	ug/L	3.5E-06	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	2.8E-03	mg/kg-day	3.6E-03
				Mercury	6E-01	ug/L	3.6E-09	mg/kg-day	N/A	N/A	N/A	1.1E-08	mg/kg-day	2.1E-05	mg/kg-day	5.1E-04
			Exp. Route Total								4E-07					4E-02
		Exposure Point Total									4E-07					4E-02
		Station NT-3 (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	7.8E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	7.1E-09	2.3E-09	mg/kg-day	1.3E-05	mg/kg-day	1.7E-04
				Arsenic	5E+01	ug/L	2.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.1E-07	8.1E-07	mg/kg-day	3.0E-04	mg/kg-day	2.7E-03
				Cadmium	3E+00	ug/L	1.5E-08	mg/kg-day	N/A	N/A	N/A	4.4E-08	mg/kg-day	2.5E-05	mg/kg-day	1.7E-03
				Chromium VI	6E+01	ug/L	7.0E-07	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	7.5E-05	mg/kg-day	2.7E-02
				Lead												
				Manganese	6E+02	ug/L	3.5E-06	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	2.8E-03	mg/kg-day	3.6E-03
				Mercury	6E-01	ug/L	3.6E-09	mg/kg-day	N/A	N/A	N/A	1.1E-08	mg/kg-day	2.1E-05	mg/kg-day	5.1E-04
			Exp. Route Total								4E-07					4E-02
		Exposure Point Total									4E-07					4E-02
		Station WG (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	7.8E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	7.1E-09	2.3E-09	mg/kg-day	1.3E-05	mg/kg-day	1.7E-04
				Arsenic	5E+01	ug/L	2.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.1E-07	8.1E-07	mg/kg-day	3.0E-04	mg/kg-day	2.7E-03
				Cadmium	3E+00	ug/L	1.5E-08	mg/kg-day	N/A	N/A	N/A	4.4E-08	mg/kg-day	2.5E-05	mg/kg-day	1.7E-03
				Chromium VI	6E+01	ug/L	7.0E-07	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	7.5E-05	mg/kg-day	2.7E-02
				Lead												
				Manganese	6E+02	ug/L	3.5E-06	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	2.8E-03	mg/kg-day	3.6E-03
				Mercury	6E-01	ug/L	3.6E-09	mg/kg-day	N/A	N/A	N/A	1.1E-08	mg/kg-day	2.1E-05	mg/kg-day	5.1E-04
			Exp. Route Total								4E-07					4E-02
		Exposure Point Total									4E-07					4E-02

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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 (cont.)	Surface Water (cont.)	Station WW (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	7.8E-10	mg/kg-day	9.1E+00	(mg/kg-day)$^{-1}$	7.1E-09	2.3E-09	mg/kg-day	1.3E-05	mg/kg-day	1.7E-04
				Arsenic	5E+01	ug/L	2.8E-07	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	4.1E-07	8.1E-07	mg/kg-day	3.0E-04	mg/kg-day	2.7E-03
				Cadmium	3E+00	ug/L	1.5E-08	mg/kg-day	N/A	N/A	N/A	4.4E-08	mg/kg-day	2.5E-05	mg/kg-day	1.7E-03
				Chromium VI	6E+01	ug/L	7.0E-07	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	7.5E-05	mg/kg-day	2.7E-02
				Lead												
				Manganese	6E+02	ug/L	3.5E-06	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	2.8E-03	mg/kg-day	3.6E-03
				Mercury	6E-01	ug/L	3.6E-09	mg/kg-day	N/A	N/A	N/A	1.1E-08	mg/kg-day	2.1E-05	mg/kg-day	5.1E-04
			Exp. Route Total								4E-07					4E-02
		Exposure Point Total									4E-07					4E-02
		Station JY (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	7.8E-10	mg/kg-day	9.1E+00	(mg/kg-day)$^{-1}$	7.1E-09	2.3E-09	mg/kg-day	1.3E-05	mg/kg-day	1.7E-04
				Arsenic	5E+01	ug/L	2.8E-07	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	4.1E-07	8.1E-07	mg/kg-day	3.0E-04	mg/kg-day	2.7E-03
				Cadmium	3E+00	ug/L	1.5E-08	mg/kg-day	N/A	N/A	N/A	4.4E-08	mg/kg-day	2.5E-05	mg/kg-day	1.7E-03
				Chromium VI	6E+01	ug/L	7.0E-07	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	7.5E-05	mg/kg-day	2.7E-02
				Lead												
				Manganese	6E+02	ug/L	3.5E-06	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	2.8E-03	mg/kg-day	3.6E-03
				Mercury	6E-01	ug/L	3.6E-09	mg/kg-day	N/A	N/A	N/A	1.1E-08	mg/kg-day	2.1E-05	mg/kg-day	5.1E-04
			Exp. Route Total								4E-07					4E-02
		Exposure Point Total									4E-07					4E-02
		Station WS/WSS (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	1.0E-09	mg/kg-day	9.1E+00	(mg/kg-day)$^{-1}$	9.4E-09	3.0E-09	mg/kg-day	1.3E-05	mg/kg-day	2.3E-04
				Arsenic	5E+01	ug/L	3.7E-07	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	5.5E-07	1.1E-06	mg/kg-day	3.0E-04	mg/kg-day	3.6E-03
				Cadmium	3E+00	ug/L	2.0E-08	mg/kg-day	N/A	N/A	N/A	5.8E-08	mg/kg-day	2.5E-05	mg/kg-day	2.3E-03
				Chromium VI	6E+01	ug/L	9.4E-07	mg/kg-day	N/A	N/A	N/A	2.7E-06	mg/kg-day	7.5E-05	mg/kg-day	3.6E-02
				Lead												
				Manganese	6E+02	ug/L	4.6E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	2.8E-03	mg/kg-day	4.8E-03
				Mercury	6E-01	ug/L	4.8E-09	mg/kg-day	N/A	N/A	N/A	1.4E-08	mg/kg-day	2.1E-05	mg/kg-day	6.7E-04
			Exp. Route Total								6E-07					5E-02
		Exposure Point Total									6E-07					5E-02

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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 (cont.)	Surface Water (cont.)	Station TT-30 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	1.0E-07	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	4.1E-08	3.0E-07	mg/kg-day	3.0E-04	mg/kg-day	9.8E-04
				Arsenic	2E+01	ug/L	3.9E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.9E-08	1.1E-07	mg/kg-day	3.0E-04	mg/kg-day	3.8E-04
				Cadmium	2E-01	ug/L	4.6E-10	mg/kg-day	N/A	N/A	N/A	1.3E-09	mg/kg-day	2.5E-05	mg/kg-day	5.3E-05
				Chromium VI	1E+01	ug/L	4.8E-08	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	7.5E-05	mg/kg-day	1.9E-03
				Lead												
				Manganese	8E+02	ug/L	1.5E-08	mg/kg-day	N/A	N/A	N/A	4.5E-06	mg/kg-day	2.8E-03	mg/kg-day	1.6E-03
				Mercury	1E-01	ug/L	2.9E-10	mg/kg-day	N/A	N/A	N/A	8.6E-10	mg/kg-day	2.1E-05	mg/kg-day	4.1E-05
			Exp. Route Total								1E-07					5E-03
		Exposure Point Total									1E-07					5E-03
		Station TT-31 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	3.0E-07	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.2E-07	8.9E-07	mg/kg-day	3.0E-04	mg/kg-day	3.0E-03
				Arsenic	2E+01	ug/L	1.2E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.8E-07	3.4E-07	mg/kg-day	3.0E-04	mg/kg-day	1.1E-03
				Cadmium	2E-01	ug/L	1.4E-09	mg/kg-day	N/A	N/A	N/A	4.0E-09	mg/kg-day	2.5E-05	mg/kg-day	1.6E-04
				Chromium VI	1E+01	ug/L	1.4E-07	mg/kg-day	N/A	N/A	N/A	4.2E-07	mg/kg-day	7.5E-05	mg/kg-day	5.6E-03
				Lead												
				Manganese	8E+02	ug/L	4.6E-06	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	2.8E-03	mg/kg-day	4.8E-03
				Mercury	1E-01	ug/L	8.8E-10	mg/kg-day	N/A	N/A	N/A	2.6E-09	mg/kg-day	2.1E-05	mg/kg-day	1.2E-04
			Exp. Route Total								3E-07					1E-02
		Exposure Point Total									3E-07					1E-02
		Station CB-01 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	4.1E-07	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.6E-07	1.2E-06	mg/kg-day	3.0E-04	mg/kg-day	3.9E-03
				Arsenic	2E+01	ug/L	1.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.4E-07	4.6E-07	mg/kg-day	3.0E-04	mg/kg-day	1.5E-03
				Cadmium	2E-01	ug/L	1.8E-09	mg/kg-day	N/A	N/A	N/A	5.3E-09	mg/kg-day	2.5E-05	mg/kg-day	2.1E-04
				Chromium VI	1E+01	ug/L	1.9E-07	mg/kg-day	N/A	N/A	N/A	5.6E-07	mg/kg-day	7.5E-05	mg/kg-day	7.5E-03
				Lead												
				Manganese	8E+02	ug/L	6.2E-06	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	2.8E-03	mg/kg-day	6.4E-03
				Mercury	1E-01	ug/L	1.2E-09	mg/kg-day	N/A	N/A	N/A	3.4E-09	mg/kg-day	2.1E-05	mg/kg-day	1.6E-04
			Exp. Route Total								4E-07					2E-02
		Exposure Point Total									4E-07					2E-02

TABLE 3-7.2.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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 (cont.)	Surface Water (cont.)	Station CB-02 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	4.1E-07	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.6E-07	1.2E-06	mg/kg-day	3.0E-04	mg/kg-day	3.9E-03
				Arsenic	2E+01	ug/L	1.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.4E-07	4.6E-07	mg/kg-day	3.0E-04	mg/kg-day	1.5E-03
				Cadmium	2E-01	ug/L	1.8E-09	mg/kg-day	N/A	N/A	N/A	5.3E-09	mg/kg-day	2.5E-05	mg/kg-day	2.1E-04
				Chromium VI	1E+01	ug/L	1.9E-07	mg/kg-day	N/A	N/A	N/A	5.6E-07	mg/kg-day	7.5E-05	mg/kg-day	7.5E-03
				Lead												
				Manganese	8E+02	ug/L	6.2E-06	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	2.8E-03	mg/kg-day	6.4E-03
				Mercury	1E-01	ug/L	1.2E-09	mg/kg-day	N/A	N/A	N/A	3.4E-09	mg/kg-day	2.1E-05	mg/kg-day	1.6E-04
			Exp. Route Total								4E-07					2E-02
		Exposure Point Total									4E-07					2E-02
		Station CB-03 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	4.1E-07	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.6E-07	1.2E-06	mg/kg-day	3.0E-04	mg/kg-day	3.9E-03
				Arsenic	2E+01	ug/L	1.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.4E-07	4.6E-07	mg/kg-day	3.0E-04	mg/kg-day	1.5E-03
				Cadmium	2E-01	ug/L	1.8E-09	mg/kg-day	N/A	N/A	N/A	5.3E-09	mg/kg-day	2.5E-05	mg/kg-day	2.1E-04
				Chromium VI	1E+01	ug/L	1.9E-07	mg/kg-day	N/A	N/A	N/A	5.6E-07	mg/kg-day	7.5E-05	mg/kg-day	7.5E-03
				Lead												
				Manganese	8E+02	ug/L	6.2E-06	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	2.8E-03	mg/kg-day	6.4E-03
				Mercury	1E-01	ug/L	1.2E-09	mg/kg-day	N/A	N/A	N/A	3.4E-09	mg/kg-day	2.1E-05	mg/kg-day	1.6E-04
			Exp. Route Total								4E-07					2E-02
		Exposure Point Total									4E-07					2E-02
		Station CB-04 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	4.1E-07	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.6E-07	1.2E-06	mg/kg-day	3.0E-04	mg/kg-day	3.9E-03
				Arsenic	2E+01	ug/L	1.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.4E-07	4.6E-07	mg/kg-day	3.0E-04	mg/kg-day	1.5E-03
				Cadmium	2E-01	ug/L	1.8E-09	mg/kg-day	N/A	N/A	N/A	5.3E-09	mg/kg-day	2.5E-05	mg/kg-day	2.1E-04
				Chromium VI	1E+01	ug/L	1.9E-07	mg/kg-day	N/A	N/A	N/A	5.6E-07	mg/kg-day	7.5E-05	mg/kg-day	7.5E-03
				Lead												
				Manganese	8E+02	ug/L	6.2E-06	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	2.8E-03	mg/kg-day	6.4E-03
				Mercury	1E-01	ug/L	1.2E-09	mg/kg-day	N/A	N/A	N/A	3.4E-09	mg/kg-day	2.1E-05	mg/kg-day	1.6E-04
			Exp. Route Total								4E-07					2E-02
		Exposure Point Total									4E-07					2E-02

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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 (cont.)	Surface Water (cont.)	Station CB-06 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	4.1E-07	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.6E-07	1.2E-06	mg/kg-day	3.0E-04	mg/kg-day	3.9E-03
				Arsenic	2E+01	ug/L	1.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.4E-07	4.6E-07	mg/kg-day	3.0E-04	mg/kg-day	1.5E-03
				Cadmium	2E-01	ug/L	1.8E-09	mg/kg-day	N/A	N/A	N/A	5.3E-09	mg/kg-day	2.5E-05	mg/kg-day	2.1E-04
				Chromium VI	1E+01	ug/L	1.9E-07	mg/kg-day	N/A	N/A	N/A	5.6E-07	mg/kg-day	7.5E-05	mg/kg-day	7.5E-03
				Lead												
				Manganese	8E+02	ug/L	6.2E-06	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	2.8E-03	mg/kg-day	6.4E-03
				Mercury	1E-01	ug/L	1.2E-09	mg/kg-day	N/A	N/A	N/A	3.4E-09	mg/kg-day	2.1E-05	mg/kg-day	1.6E-04
			Exp. Route Total								4E-07					2E-02
		Exposure Point Total									4E-07					2E-02
		Station CB-07 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	1.0E-07	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	4.1E-08	3.0E-07	mg/kg-day	3.0E-04	mg/kg-day	9.8E-04
				Arsenic	2E+01	ug/L	3.9E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.9E-08	1.1E-07	mg/kg-day	3.0E-04	mg/kg-day	3.8E-04
				Cadmium	2E-01	ug/L	4.6E-10	mg/kg-day	N/A	N/A	N/A	1.3E-09	mg/kg-day	2.5E-05	mg/kg-day	5.3E-05
				Chromium VI	1E+01	ug/L	4.8E-08	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	7.5E-05	mg/kg-day	1.9E-03
				Lead												
				Manganese	8E+02	ug/L	1.5E-06	mg/kg-day	N/A	N/A	N/A	4.5E-06	mg/kg-day	2.8E-03	mg/kg-day	1.6E-03
				Mercury	1E-01	ug/L	2.9E-10	mg/kg-day	N/A	N/A	N/A	8.6E-10	mg/kg-day	2.1E-05	mg/kg-day	4.1E-05
			Exp. Route Total								1E-07					5E-03
		Exposure Point Total									1E-07					5E-03
		Station 16/11-33 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	3.0E-07	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.2E-07	8.9E-07	mg/kg-day	3.0E-04	mg/kg-day	3.0E-03
				Arsenic	2E+01	ug/L	1.2E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.8E-07	3.4E-07	mg/kg-day	3.0E-04	mg/kg-day	1.1E-03
				Cadmium	2E-01	ug/L	1.4E-09	mg/kg-day	N/A	N/A	N/A	4.0E-09	mg/kg-day	2.5E-05	mg/kg-day	1.6E-04
				Chromium VI	1E+01	ug/L	1.4E-07	mg/kg-day	N/A	N/A	N/A	4.2E-07	mg/kg-day	7.5E-05	mg/kg-day	5.6E-03
				Lead												
				Manganese	8E+02	ug/L	4.6E-06	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	2.8E-03	mg/kg-day	4.8E-03
				Mercury	1E-01	ug/L	8.8E-10	mg/kg-day	N/A	N/A	N/A	2.6E-09	mg/kg-day	2.1E-05	mg/kg-day	1.2E-04
			Exp. Route Total								3E-07					1E-02
		Exposure Point Total									3E-07					1E-02

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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 (cont.)	Surface Water (cont.)	Station 09 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	3.0E-07	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.2E-07	8.9E-07	mg/kg-day	3.0E-04	mg/kg-day	3.0E-03
				Arsenic	2E+01	ug/L	1.2E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.8E-07	3.4E-07	mg/kg-day	3.0E-04	mg/kg-day	1.1E-03
				Cadmium	2E-01	ug/L	1.4E-09	mg/kg-day	N/A	N/A	N/A	4.0E-09	mg/kg-day	2.5E-05	mg/kg-day	1.6E-04
				Chromium VI	1E+01	ug/L	1.4E-07	mg/kg-day	N/A	N/A	N/A	4.2E-07	mg/kg-day	7.5E-05	mg/kg-day	5.6E-03
				Lead												
				Manganese	8E+02	ug/L	4.6E-06	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	2.8E-03	mg/kg-day	4.8E-03
				Mercury	1E-01	ug/L	8.8E-10	mg/kg-day	N/A	N/A	N/A	2.6E-09	mg/kg-day	2.1E-05	mg/kg-day	1.2E-04
			Exp. Route Total								3E-07					1E-02
		Exposure Point Total									3E-07					1E-02
		Station DA (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	3.0E-07	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.2E-07	8.9E-07	mg/kg-day	3.0E-04	mg/kg-day	3.0E-03
				Arsenic	2E+01	ug/L	1.2E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.8E-07	3.4E-07	mg/kg-day	3.0E-04	mg/kg-day	1.1E-03
				Cadmium	2E-01	ug/L	1.4E-09	mg/kg-day	N/A	N/A	N/A	4.0E-09	mg/kg-day	2.5E-05	mg/kg-day	1.6E-04
				Chromium VI	1E+01	ug/L	1.4E-07	mg/kg-day	N/A	N/A	N/A	4.2E-07	mg/kg-day	7.5E-05	mg/kg-day	5.6E-03
				Lead												
				Manganese	8E+02	ug/L	4.6E-06	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	2.8E-03	mg/kg-day	4.8E-03
				Mercury	1E-01	ug/L	8.8E-10	mg/kg-day	N/A	N/A	N/A	2.6E-09	mg/kg-day	2.1E-05	mg/kg-day	1.2E-04
			Exp. Route Total								3E-07					1E-02
		Exposure Point Total									3E-07					1E-02
		Station AM (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	1.0E-07	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	4.1E-08	3.0E-07	mg/kg-day	3.0E-04	mg/kg-day	9.8E-04
				Arsenic	2E+01	ug/L	3.9E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.9E-08	1.1E-07	mg/kg-day	3.0E-04	mg/kg-day	3.8E-04
				Cadmium	2E-01	ug/L	4.6E-10	mg/kg-day	N/A	N/A	N/A	1.3E-09	mg/kg-day	2.5E-05	mg/kg-day	5.3E-05
				Chromium VI	1E+01	ug/L	4.8E-08	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	7.5E-05	mg/kg-day	1.9E-03
				Lead												
				Manganese	8E+02	ug/L	1.5E-06	mg/kg-day	N/A	N/A	N/A	4.5E-06	mg/kg-day	2.8E-03	mg/kg-day	1.6E-03
				Mercury	1E-01	ug/L	2.9E-10	mg/kg-day	N/A	N/A	N/A	8.6E-10	mg/kg-day	2.1E-05	mg/kg-day	4.1E-05
			Exp. Route Total								1E-07					5E-03
		Exposure Point Total									1E-07					5E-03
		Station KF (Lower Reach 2)	Dermal	Arsenic	7E+00	ug/L	4.1E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.1E-08	1.2E-07	mg/kg-day	3.0E-04	mg/kg-day	3.9E-04
				Chromium VI	2E+00	ug/L	2.6E-08	mg/kg-day	N/A	N/A	N/A	7.7E-08	mg/kg-day	7.5E-05	mg/kg-day	1.0E-03
				Manganese	4E+02	ug/L	2.1E-06	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								6E-08					4E-03
		Exposure Point Total									6E-08					4E-03

TABLE 3-7.2.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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 (cont.)	Surface Water (cont.)	Station 08 (Lower Reach 2)	Dermal	Arsenic	7E+00	ug/L	4.1E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.1E-08	1.2E-07	mg/kg-day	3.0E-04	mg/kg-day	3.9E-04
				Chromium VI	2E+00	ug/L	2.6E-08	mg/kg-day	N/A	N/A	N/A	7.7E-08	mg/kg-day	7.5E-05	mg/kg-day	1.0E-03
				Manganese	4E+02	ug/L	2.1E-06	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								6E-08					4E-03
		Exposure Point Total									6E-08					4E-03
		Station 07/DP (Reach 3)	Dermal	Chromium VI	3E+00	ug/L	3.7E-08	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	7.5E-05	mg/kg-day	1.4E-03
				Lead												
				Manganese	6E+02	ug/L	3.5E-06	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	2.8E-03	mg/kg-day	3.6E-03
				Mercury	2E-01	ug/L	1.3E-09	mg/kg-day	N/A	N/A	N/A	3.8E-09	mg/kg-day	2.1E-05	mg/kg-day	1.8E-04
			Exp. Route Total								N/A					5E-03
		Exposure Point Total									N/A					5E-03
		Station LP (Reach 3)	Dermal	Chromium VI	3E+00	ug/L	3.7E-08	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	7.5E-05	mg/kg-day	1.4E-03
				Lead												
				Manganese	6E+02	ug/L	3.5E-06	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	2.8E-03	mg/kg-day	3.6E-03
				Mercury	2E-01	ug/L	1.3E-09	mg/kg-day	N/A	N/A	N/A	3.8E-09	mg/kg-day	2.1E-05	mg/kg-day	1.8E-04
			Exp. Route Total								N/A					5E-03
		Exposure Point Total									N/A					5E-03
		Station AS (Reach 3)	Dermal	Chromium VI	3E+00	ug/L	3.7E-08	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	7.5E-05	mg/kg-day	1.4E-03
				Lead												
				Manganese	6E+02	ug/L	3.5E-06	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	2.8E-03	mg/kg-day	3.6E-03
				Mercury	2E-01	ug/L	1.3E-09	mg/kg-day	N/A	N/A	N/A	3.8E-09	mg/kg-day	2.1E-05	mg/kg-day	1.8E-04
			Exp. Route Total								N/A					5E-03
		Exposure Point Total									N/A					5E-03
		Station 06 (Reach 4)	Dermal	Chromium VI	4E+00	ug/L	5.1E-08	mg/kg-day	N/A	N/A	N/A	1.5E-07	mg/kg-day	7.5E-05	mg/kg-day	2.0E-03
				Lead												
				Manganese	5E+02	ug/L	3.0E-06	mg/kg-day	N/A	N/A	N/A	8.8E-06	mg/kg-day	2.8E-03	mg/kg-day	3.1E-03
			Exp. Route Total								N/A					5E-03
		Exposure Point Total									N/A					5E-03

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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 (cont.)	Surface Water (cont.)	Station 05 (Reach 5)	Dermal	Chloroform	1E+00	ug/L	7.9E-08	mg/kg-day	N/A	N/A	N/A	2.3E-07	mg/kg-day	1.0E-02	mg/kg-day	2.3E-05
				Tetrachloroethene	2E+00	ug/L	1.0E-06	mg/kg-day	5.4E-01	(mg/kg-day) $^{-1}$	5.6E-07	3.0E-06	mg/kg-day	1.0E-02	mg/kg-day	3.0E-04
				Chromium VI	9E-01	ug/L	1.0E-08	mg/kg-day	N/A	N/A	N/A	3.0E-08	mg/kg-day	7.5E-05	mg/kg-day	3.9E-04
				Manganese	3E+02	ug/L	1.9E-06	mg/kg-day	N/A	N/A	N/A	5.6E-06	mg/kg-day	2.8E-03	mg/kg-day	2.0E-03
			Exp. Route Total								6E-07					3E-03
		Exposure Point Total									6E-07					3E-03
		Station 04 (Upper Reach 6)	Dermal	Arsenic	5E+00	ug/L	3.1E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.7E-08	9.0E-08	mg/kg-day	3.0E-04	mg/kg-day	3.0E-04
				Chromium VI	4E+00	ug/L	4.4E-08	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	7.5E-05	mg/kg-day	1.7E-03
				Lead												
				Manganese	3E+02	ug/L	1.9E-06	mg/kg-day	N/A	N/A	N/A	5.5E-06	mg/kg-day	2.8E-03	mg/kg-day	2.0E-03
				Mercury	7E-02	ug/L	4.1E-10	mg/kg-day	N/A	N/A	N/A	1.2E-09	mg/kg-day	2.1E-05	mg/kg-day	5.7E-05
			Exp. Route Total								5E-08					4E-03
		Exposure Point Total									5E-08					4E-03
		Station 03 (Upper Reach 6)	Dermal	Arsenic	5E+00	ug/L	3.1E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.7E-08	9.0E-08	mg/kg-day	3.0E-04	mg/kg-day	3.0E-04
				Chromium VI	4E+00	ug/L	4.4E-08	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	7.5E-05	mg/kg-day	1.7E-03
				Lead												
				Manganese	3E+02	ug/L	1.9E-06	mg/kg-day	N/A	N/A	N/A	5.5E-06	mg/kg-day	2.8E-03	mg/kg-day	2.0E-03
				Mercury	7E-02	ug/L	4.1E-10	mg/kg-day	N/A	N/A	N/A	1.2E-09	mg/kg-day	2.1E-05	mg/kg-day	5.7E-05
			Exp. Route Total								5E-08					4E-03
		Exposure Point Total									5E-08					4E-03
		Station 02 (Upper Reach 6)	Dermal	Arsenic	5E+00	ug/L	3.1E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.7E-08	9.0E-08	mg/kg-day	3.0E-04	mg/kg-day	3.0E-04
				Chromium VI	4E+00	ug/L	4.4E-08	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	7.5E-05	mg/kg-day	1.7E-03
				Lead												
				Manganese	3E+02	ug/L	1.9E-06	mg/kg-day	N/A	N/A	N/A	5.5E-06	mg/kg-day	2.8E-03	mg/kg-day	2.0E-03
				Mercury	7E-02	ug/L	4.1E-10	mg/kg-day	N/A	N/A	N/A	1.2E-09	mg/kg-day	2.1E-05	mg/kg-day	5.7E-05
			Exp. Route Total								5E-08					4E-03
		Exposure Point Total									5E-08					4E-03

TABLE 3-7.2.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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				
							Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
					Value	Units	Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water (cont.)	Surface Water (cont.)	Station 01 (Lower Reach 6)	Ingestion													
				Arsenic	3E+00	ug/L	8.1E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.2E-07	2.4E-07	mg/kg-day	3.0E-04	mg/kg-day	7.9E-04
				Chromium VI	2E+00	ug/L	3.9E-08	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	3.0E-03	mg/kg-day	3.8E-05
				Lead												
				Manganese	7E+01	ug/L	1.9E-06	mg/kg-day	N/A	N/A	N/A	5.4E-06	mg/kg-day	7.0E-02	mg/kg-day	7.7E-05
				Mercury	4E-02	ug/L	1.0E-09	mg/kg-day	N/A	N/A	N/A	3.1E-09	mg/kg-day	3.0E-04	mg/kg-day	1.0E-05
			Exp. Route Total								1E-07					9E-04
			Dermal													
				Arsenic	3E+00	ug/L	2.9E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.4E-08	8.5E-08	mg/kg-day	3.0E-04	mg/kg-day	2.8E-04
				Chromium VI	2E+00	ug/L	2.8E-08	mg/kg-day	N/A	N/A	N/A	8.2E-08	mg/kg-day	7.5E-05	mg/kg-day	1.1E-03
				Lead												
				Manganese	7E+01	ug/L	6.7E-07	mg/kg-day	N/A	N/A	N/A	1.9E-06	mg/kg-day	2.8E-03	mg/kg-day	7.0E-04
				Mercury	4E-02	ug/L	3.8E-10	mg/kg-day	N/A	N/A	N/A	1.1E-09	mg/kg-day	2.1E-05	mg/kg-day	5.2E-05
			Exp. Route Total								4E-08					2E-03
		Exposure Point Total									2E-07					3E-03
	Exposure Medium Total										N/A					N/A
Sediment	Sediment	Station NR	Ingestion													
				Arsenic	2E+02	mg/kg	7.5E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	5.8E-06	2.2E-05	mg/kg-day	5.9E-04	mg/kg-day	3.7E-02
				Barium	6E+01	mg/kg	2.0E-06	mg/kg-day	N/A	N/A	N/A	5.7E-06	mg/kg-day	7.0E-02	mg/kg-day	8.2E-05
				Cadmium	2E+00	mg/kg	7.7E-08	mg/kg-day	N/A	N/A	N/A	2.2E-07	mg/kg-day	1.0E-03	mg/kg-day	2.2E-04
				Chromium III	3E+02	mg/kg	8.7E-06	mg/kg-day	N/A	N/A	N/A	2.6E-05	mg/kg-day	1.5E+00	mg/kg-day	1.7E-05
				Copper	3E+02	mg/kg	1.1E-05	mg/kg-day	N/A	N/A	N/A	3.1E-05	mg/kg-day	3.0E-02	mg/kg-day	1.0E-03
				Lead												
				Manganese	2E+02	mg/kg	8.6E-06	mg/kg-day	N/A	N/A	N/A	2.5E-05	mg/kg-day	7.0E-02	mg/kg-day	3.6E-04
				Mercury	4E+00	mg/kg	1.6E-07	mg/kg-day	N/A	N/A	N/A	4.6E-07	mg/kg-day	1.0E-04	mg/kg-day	4.6E-03
				Nickel	1E+01	mg/kg	4.9E-07	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	2.0E-02	mg/kg-day	7.1E-05
				Vanadium	3E+01	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	3.1E-06	mg/kg-day	1.0E-03	mg/kg-day	3.1E-03
				Zinc	5E+02	mg/kg	1.7E-05	mg/kg-day	N/A	N/A	N/A	4.9E-05	mg/kg-day	3.0E-01	mg/kg-day	1.6E-04
			Exp. Route Total								6E-06					5E-02
			Dermal													
				Arsenic	2E+02	mg/kg	1.8E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.7E-06	5.2E-06	mg/kg-day	3.0E-04	mg/kg-day	1.7E-02
				Cadmium	2E+00	mg/kg	6.1E-09	mg/kg-day	N/A	N/A	N/A	1.8E-08	mg/kg-day	2.5E-05	mg/kg-day	7.1E-04
			Exp. Route Total								3E-06					2E-02
		Exposure Point Total									8E-06					6E-02

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station 14	Ingestion													
				Benzo(a)anthracene	1E+00	mg/kg	3.8E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.8E-08	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	9E-01	mg/kg	3.1E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.3E-07	9.1E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	7.3E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.3E-08	2.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	3.8E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	2.8E-09	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	3E+00	mg/kg	9.1E-08	mg/kg-day	N/A	N/A	N/A	2.6E-07	mg/kg-day	2.0E-02	mg/kg-day	1.3E-05
				Antimony	1E+00	mg/kg	3.5E-08	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	4.0E-04	mg/kg-day	2.5E-04
				Arsenic	7E+01	mg/kg	2.6E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.0E-06	7.5E-06	mg/kg-day	5.9E-04	mg/kg-day	1.3E-02
				Barium	2E+01	mg/kg	6.4E-07	mg/kg-day	N/A	N/A	N/A	1.9E-06	mg/kg-day	7.0E-02	mg/kg-day	2.7E-05
				Cadmium	1E+00	mg/kg	3.5E-08	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	1.0E-03	mg/kg-day	1.0E-04
				Chromium III	2E+02	mg/kg	7.5E-06	mg/kg-day	N/A	N/A	N/A	2.2E-05	mg/kg-day	1.5E+00	mg/kg-day	1.5E-05
				Copper	6E+01	mg/kg	2.3E-06	mg/kg-day	N/A	N/A	N/A	6.6E-06	mg/kg-day	3.0E-02	mg/kg-day	2.2E-04
				Lead												
				Manganese	2E+02	mg/kg	6.0E-06	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	7.0E-02	mg/kg-day	2.5E-04
				Mercury	1E+00	mg/kg	4.9E-08	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	1.0E-04	mg/kg-day	1.4E-03
				Nickel	1E+01	mg/kg	3.6E-07	mg/kg-day	N/A	N/A	N/A	1.1E-06	mg/kg-day	2.0E-02	mg/kg-day	5.3E-05
				Thallium	8E-01	mg/kg	2.8E-08	mg/kg-day	N/A	N/A	N/A	8.2E-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	1.4E-06	mg/kg-day	1.0E-03	mg/kg-day	1.4E-03
				Zinc	3E+02	mg/kg	9.5E-06	mg/kg-day	N/A	N/A	N/A	2.8E-05	mg/kg-day	3.0E-01	mg/kg-day	9.3E-05
			Exp. Route Total								2E-06					2E-02
			Dermal													
				Benzo(a)anthracene	1E+00	mg/kg	4.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.9E-08	1.2E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	9E-01	mg/kg	3.2E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.4E-07	9.4E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	7.6E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.5E-08	2.2E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	4.0E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	2.9E-09	1.2E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	3E+00	mg/kg	9.4E-08	mg/kg-day	N/A	N/A	N/A	2.7E-07	mg/kg-day	2.0E-02	mg/kg-day	1.4E-05
				Arsenic	7E+01	mg/kg	6.1E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	9.2E-07	1.8E-06	mg/kg-day	3.0E-04	mg/kg-day	6.0E-03
				Cadmium	1E+00	mg/kg	2.8E-09	mg/kg-day	N/A	N/A	N/A	8.1E-09	mg/kg-day	2.5E-05	mg/kg-day	3.2E-04
			Exp. Route Total								1E-06					6E-03
		Exposure Point Total									4E-06					2E-02

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station 22/TT-22	Ingestion													
				Tetrachloroethene	3E+00	mg/kg	1.4E-07	mg/kg-day	5.4E-01	(mg/kg-day) $^{-1}$	7.8E-08	4.2E-07	mg/kg-day	1.0E-02	mg/kg-day	4.2E-05
				Trichloroethene	7E-01	mg/kg	3.7E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.5E-08	1.1E-07	mg/kg-day	3.0E-04	mg/kg-day	3.6E-04
				Benzo(a)anthracene	3E-01	mg/kg	1.6E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.1E-08	4.6E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	1.0E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	7.6E-08	3.1E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	4E-01	mg/kg	2.3E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.7E-08	6.7E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	5E-01	mg/kg	2.8E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	2.1E-09	8.2E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	4E-02	mg/kg	2.3E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.7E-08	6.7E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	2E-01	mg/kg	1.2E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	8.4E-09	3.4E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	2.6E-08	mg/kg-day	N/A	N/A	N/A	7.5E-08	mg/kg-day	2.0E-02	mg/kg-day	3.7E-06
				Aroclor 1260	3E-02	mg/kg	1.5E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	3.0E-09	4.4E-09	mg/kg-day	2.0E-05	mg/kg-day	2.2E-04
				Antimony	3E+02	mg/kg	1.7E-05	mg/kg-day	N/A	N/A	N/A	5.0E-05	mg/kg-day	4.0E-04	mg/kg-day	1.3E-01
				Arsenic	8E+01	mg/kg	4.0E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.1E-06	1.2E-05	mg/kg-day	5.9E-04	mg/kg-day	2.0E-02
				Barium	5E+01	mg/kg	2.6E-06	mg/kg-day	N/A	N/A	N/A	7.5E-06	mg/kg-day	7.0E-02	mg/kg-day	1.1E-04
				Cadmium	1E+00	mg/kg	7.5E-08	mg/kg-day	N/A	N/A	N/A	2.2E-07	mg/kg-day	1.0E-03	mg/kg-day	2.2E-04
				Chromium III	6E+01	mg/kg	3.4E-06	mg/kg-day	N/A	N/A	N/A	9.9E-06	mg/kg-day	1.5E+00	mg/kg-day	6.6E-06
				Copper	3E+01	mg/kg	1.5E-06	mg/kg-day	N/A	N/A	N/A	4.5E-06	mg/kg-day	3.0E-02	mg/kg-day	1.5E-04
				Lead												
				Manganese	1E+02	mg/kg	6.1E-06	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	7.0E-02	mg/kg-day	2.5E-04
				Mercury	5E-01	mg/kg	2.4E-08	mg/kg-day	N/A	N/A	N/A	7.1E-08	mg/kg-day	1.0E-04	mg/kg-day	7.1E-04
				Nickel	1E+01	mg/kg	5.9E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	2.0E-02	mg/kg-day	8.7E-05
				Vanadium	4E+01	mg/kg	2.1E-06	mg/kg-day	N/A	N/A	N/A	6.2E-06	mg/kg-day	1.0E-03	mg/kg-day	6.2E-03
				Zinc	1E+02	mg/kg	5.0E-06	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	3.0E-01	mg/kg-day	4.9E-05
			Exp. Route Total								3E-06					2E-01
			Dermal													
				Benzo(a)anthracene	3E-01	mg/kg	1.6E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.2E-08	4.8E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	1.1E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	7.9E-08	3.2E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	4E-01	mg/kg	2.4E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.7E-08	7.0E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	5E-01	mg/kg	2.9E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	2.1E-09	8.6E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	4E-02	mg/kg	2.4E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.7E-08	7.0E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	2E-01	mg/kg	1.2E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	8.7E-09	3.5E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	2.7E-08	mg/kg-day	N/A	N/A	N/A	7.8E-08	mg/kg-day	2.0E-02	mg/kg-day	3.9E-06
				Aroclor 1260	3E-02	mg/kg	1.7E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	3.4E-09	4.9E-09	mg/kg-day	2.0E-05	mg/kg-day	2.5E-04
				Arsenic	8E+01	mg/kg	9.7E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.5E-06	2.8E-06	mg/kg-day	3.0E-04	mg/kg-day	9.4E-03
				Cadmium	1E+00	mg/kg	6.0E-09	mg/kg-day	N/A	N/A	N/A	1.7E-08	mg/kg-day	2.5E-05	mg/kg-day	7.0E-04
			Exp. Route Total								2E-06					1E-02
		Exposure Point Total									5E-06					2E-01

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station 13/TT-27	Ingestion													
				Trichloroethene	4E-02	mg/kg	1.9E-09	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	7.7E-10	5.6E-09	mg/kg-day	3.0E-04	mg/kg-day	1.9E-05
				Benzo(a)anthracene	1E+00	mg/kg	6.7E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.9E-08	2.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	7.1E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	5.2E-07	2.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E+00	mg/kg	1.3E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.8E-08	3.9E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E+00	mg/kg	1.2E-07	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	8.6E-09	3.4E-07	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	4.8E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	9E-01	mg/kg	4.6E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.4E-08	1.3E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E+00	mg/kg	8.8E-08	mg/kg-day	N/A	N/A	N/A	2.6E-07	mg/kg-day	2.0E-02	mg/kg-day	1.3E-05
				Aroclor 1254	5E-02	mg/kg	2.4E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	4.7E-09	6.9E-09	mg/kg-day	2.0E-05	mg/kg-day	3.4E-04
				Aroclor 1260	3E-01	mg/kg	1.6E-08	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	3.2E-08	4.7E-08	mg/kg-day	2.0E-05	mg/kg-day	2.4E-03
				Antimony	6E+01	mg/kg	3.2E-06	mg/kg-day	N/A	N/A	N/A	9.3E-06	mg/kg-day	4.0E-04	mg/kg-day	2.3E-02
				Arsenic	4E+03	mg/kg	1.9E-04	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.5E-04	5.5E-04	mg/kg-day	5.9E-04	mg/kg-day	9.4E-01
				Barium	2E+02	mg/kg	1.3E-05	mg/kg-day	N/A	N/A	N/A	3.7E-05	mg/kg-day	7.0E-02	mg/kg-day	5.2E-04
				Cadmium	9E+00	mg/kg	4.9E-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 III	6E+02	mg/kg	2.9E-05	mg/kg-day	N/A	N/A	N/A	8.6E-05	mg/kg-day	1.5E+00	mg/kg-day	5.7E-05
				Copper	2E+03	mg/kg	8.6E-05	mg/kg-day	N/A	N/A	N/A	2.5E-04	mg/kg-day	3.0E-02	mg/kg-day	8.3E-03
				Lead												
				Manganese	8E+02	mg/kg	4.0E-05	mg/kg-day	N/A	N/A	N/A	1.2E-04	mg/kg-day	7.0E-02	mg/kg-day	1.7E-03
				Mercury	2E+01	mg/kg	1.0E-06	mg/kg-day	N/A	N/A	N/A	3.0E-06	mg/kg-day	1.0E-04	mg/kg-day	3.0E-02
				Nickel	3E+01	mg/kg	1.7E-06	mg/kg-day	N/A	N/A	N/A	4.9E-06	mg/kg-day	2.0E-02	mg/kg-day	2.5E-04
				Thallium	4E+00	mg/kg	1.9E-07	mg/kg-day	N/A	N/A	N/A	5.6E-07	mg/kg-day	8.0E-05	mg/kg-day	7.1E-03
				Vanadium	9E+01	mg/kg	4.5E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	1.0E-03	mg/kg-day	1.3E-02
				Zinc	2E+03	mg/kg	1.2E-04	mg/kg-day	N/A	N/A	N/A	3.4E-04	mg/kg-day	3.0E-01	mg/kg-day	1.1E-03
			Exp. Route Total								1E-04					1E+00
			Dermal													
				Benzo(a)anthracene	1E+00	mg/kg	7.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.1E-08	2.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	7.3E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	5.3E-07	2.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E+00	mg/kg	1.4E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.0E-07	4.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E+00	mg/kg	1.2E-07	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	8.9E-09	3.6E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	1.7E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.2E-07	5.0E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	9E-01	mg/kg	4.8E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.5E-08	1.4E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E+00	mg/kg	9.2E-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
				Aroclor 1254	5E-02	mg/kg	2.6E-09	mg/kg-day	N/A	(mg/kg-day) $^{-1}$	N/A	7.7E-09	mg/kg-day	2.0E-05	mg/kg-day	3.8E-04
				Aroclor 1260	3E-01	mg/kg	1.8E-08	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	3.6E-08	5.3E-08	mg/kg-day	2.0E-05	mg/kg-day	2.6E-03
				Arsenic	4E+03	mg/kg	4.6E-05	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.8E-05	1.3E-04	mg/kg-day	3.0E-04	mg/kg-day	4.4E-01
				Cadmium	9E+00	mg/kg	3.9E-08	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	2.5E-05	mg/kg-day	4.6E-03
			Exp. Route Total								7E-05					5E-01
		Exposure Point Total									2E-04					1E+00

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station WH	Ingestion													
				Trichloroethene	5E-02	mg/kg	2.8E-09	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.1E-09	8.1E-09	mg/kg-day	3.0E-04	mg/kg-day	2.7E-05
				Benzo(a)anthracene	6E-01	mg/kg	2.9E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.1E-08	8.5E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	5.2E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.8E-07	1.5E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	7.9E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.7E-08	2.3E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	7E-01	mg/kg	3.8E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	2.8E-09	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	1.7E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.2E-07	4.9E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	7E-01	mg/kg	3.9E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.8E-08	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	6E-01	mg/kg	3.0E-08	mg/kg-day	N/A	N/A	N/A	8.7E-08	mg/kg-day	2.0E-02	mg/kg-day	4.4E-06
				Aroclor 1260	6E-02	mg/kg	3.0E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	6.1E-09	8.9E-09	mg/kg-day	2.0E-05	mg/kg-day	4.4E-04
				Antimony	3E+01	mg/kg	1.8E-06	mg/kg-day	N/A	N/A	N/A	5.3E-06	mg/kg-day	4.0E-04	mg/kg-day	1.3E-02
				Arsenic	2E+03	mg/kg	1.0E-04	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	7.7E-05	2.9E-04	mg/kg-day	5.9E-04	mg/kg-day	4.9E-01
				Barium	9E+01	mg/kg	4.9E-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
				Cadmium	1E+01	mg/kg	5.6E-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
				Chromium III	1E+03	mg/kg	6.2E-05	mg/kg-day	N/A	N/A	N/A	1.8E-04	mg/kg-day	1.5E+00	mg/kg-day	1.2E-04
				Copper	1E+03	mg/kg	6.2E-05	mg/kg-day	N/A	N/A	N/A	1.8E-04	mg/kg-day	3.0E-02	mg/kg-day	6.1E-03
				Lead												
				Manganese	5E+02	mg/kg	2.7E-05	mg/kg-day	N/A	N/A	N/A	7.8E-05	mg/kg-day	7.0E-02	mg/kg-day	1.1E-03
				Mercury	3E+01	mg/kg	1.4E-06	mg/kg-day	N/A	N/A	N/A	4.2E-06	mg/kg-day	1.0E-04	mg/kg-day	4.2E-02
				Nickel	4E+01	mg/kg	2.1E-06	mg/kg-day	N/A	N/A	N/A	6.2E-06	mg/kg-day	2.0E-02	mg/kg-day	3.1E-04
				Thallium	8E-01	mg/kg	4.0E-08	mg/kg-day	N/A	N/A	N/A	1.2E-07	mg/kg-day	8.0E-05	mg/kg-day	1.5E-03
				Vanadium	1E+02	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
				Zinc	2E+03	mg/kg	1.2E-04	mg/kg-day	N/A	N/A	N/A	3.5E-04	mg/kg-day	3.0E-01	mg/kg-day	1.2E-03
				Chromium VI	2E+00	mg/kg	8.0E-08	mg/kg-day	N/A	N/A	N/A	2.3E-07	mg/kg-day	3.0E-03	mg/kg-day	7.8E-05
			Exp. Route Total								8E-05					6E-01
			Dermal													
				Benzo(a)anthracene	6E-01	mg/kg	3.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.2E-08	8.9E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	5.4E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.0E-07	1.6E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	8.1E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.9E-08	2.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	7E-01	mg/kg	3.9E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	2.9E-09	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	1.7E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.3E-07	5.1E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	7E-01	mg/kg	4.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.9E-08	1.2E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	6E-01	mg/kg	3.1E-08	mg/kg-day	N/A	N/A	N/A	9.0E-08	mg/kg-day	2.0E-02	mg/kg-day	4.5E-06
				Aroclor 1260	8E-02	mg/kg	3.4E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	6.8E-09	9.9E-09	mg/kg-day	2.0E-05	mg/kg-day	4.9E-04
				Arsenic	2E+03	mg/kg	2.4E-05	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.6E-05	7.0E-05	mg/kg-day	3.0E-04	mg/kg-day	2.3E-01
				Cadmium	1E+01	mg/kg	4.5E-08	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	2.5E-05	mg/kg-day	5.2E-03
			Exp. Route Total								4E-05					2E-01
		Exposure Point Total									1E-04					8E-01

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station NT-1	Ingestion													
				Trichloroethene	5E-02	mg/kg	2.8E-09	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.1E-09	8.1E-09	mg/kg-day	3.0E-04	mg/kg-day	2.7E-05
				Benzo(a)anthracene	5E-01	mg/kg	2.7E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.9E-08	7.7E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	9E-01	mg/kg	4.6E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.4E-07	1.3E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	7.5E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.5E-08	2.2E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	9E-01	mg/kg	4.8E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	3.5E-09	1.4E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	1.7E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.2E-07	4.9E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	7E-01	mg/kg	3.9E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.8E-08	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	6E-01	mg/kg	3.0E-08	mg/kg-day	N/A	N/A	N/A	8.7E-08	mg/kg-day	2.0E-02	mg/kg-day	4.4E-06
				Aroclor 1260	6E-02	mg/kg	3.0E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	6.1E-09	8.9E-09	mg/kg-day	2.0E-05	mg/kg-day	4.4E-04
				Antimony	1E+01	mg/kg	7.5E-07	mg/kg-day	N/A	N/A	N/A	2.2E-06	mg/kg-day	4.0E-04	mg/kg-day	5.5E-03
				Arsenic	2E+03	mg/kg	1.3E-04	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.0E-04	3.8E-04	mg/kg-day	5.9E-04	mg/kg-day	6.4E-01
				Barium	1E+02	mg/kg	5.6E-06	mg/kg-day	N/A	N/A	N/A	1.6E-05	mg/kg-day	7.0E-02	mg/kg-day	2.3E-04
				Cadmium	9E+00	mg/kg	4.5E-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
				Chromium III	2E+03	mg/kg	8.0E-05	mg/kg-day	N/A	N/A	N/A	2.3E-04	mg/kg-day	1.5E+00	mg/kg-day	1.6E-04
				Copper	8E+02	mg/kg	4.4E-05	mg/kg-day	N/A	N/A	N/A	1.3E-04	mg/kg-day	3.0E-02	mg/kg-day	4.3E-03
				Lead												
				Manganese	1E+03	mg/kg	5.6E-05	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	5E+00	mg/kg	2.6E-07	mg/kg-day	N/A	N/A	N/A	7.5E-07	mg/kg-day	1.0E-04	mg/kg-day	7.5E-03
				Nickel	4E+01	mg/kg	2.1E-06	mg/kg-day	N/A	N/A	N/A	6.3E-06	mg/kg-day	2.0E-02	mg/kg-day	3.1E-04
				Thallium	1E+01	mg/kg	5.8E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	8.0E-05	mg/kg-day	2.1E-02
				Vanadium	7E+01	mg/kg	3.6E-06	mg/kg-day	N/A	N/A	N/A	1.1E-05	mg/kg-day	1.0E-03	mg/kg-day	1.1E-02
				Zinc	2E+03	mg/kg	8.7E-05	mg/kg-day	N/A	N/A	N/A	2.5E-04	mg/kg-day	3.0E-01	mg/kg-day	8.4E-04
				Chromium VI	2E+00	mg/kg	1.0E-07	mg/kg-day	N/A	N/A	N/A	3.0E-07	mg/kg-day	3.0E-03	mg/kg-day	1.0E-04
			Exp. Route Total								1E-04					7E-01
			Dermal													
				Benzo(a)anthracene	5E-01	mg/kg	2.8E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.0E-08	8.0E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	9E-01	mg/kg	4.8E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.5E-07	1.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	7.8E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.7E-08	2.3E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	9E-01	mg/kg	4.9E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	3.6E-09	1.4E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	1.7E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.3E-07	5.1E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	7E-01	mg/kg	4.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.9E-08	1.2E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	6E-01	mg/kg	3.1E-08	mg/kg-day	N/A	N/A	N/A	9.0E-08	mg/kg-day	2.0E-02	mg/kg-day	4.5E-06
				Aroclor 1260	6E-02	mg/kg	3.4E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	6.8E-09	9.9E-09	mg/kg-day	2.0E-05	mg/kg-day	4.9E-04
				Arsenic	2E+03	mg/kg	3.1E-05	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.7E-05	9.1E-05	mg/kg-day	3.0E-04	mg/kg-day	3.0E-01
				Cadmium	9E+00	mg/kg	3.6E-08	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	2.5E-05	mg/kg-day	4.2E-03
			Exp. Route Total								5E-05					3E-01
		Exposure Point Total									1E-04					1E+00

TABLE 3-7.2.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station NT-2	Ingestion													
				Trichloroethene	5E-02	mg/kg	2.8E-09	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.1E-09	8.1E-09	mg/kg-day	3.0E-04	mg/kg-day	2.7E-05
				Benzo(a)anthracene	4E-01	mg/kg	2.2E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.6E-08	6.5E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	5.2E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.8E-07	1.5E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	6.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.4E-08	1.8E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	7E-01	mg/kg	3.9E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	2.8E-09	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	1.7E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.2E-07	4.9E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	7E-01	mg/kg	3.9E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.8E-08	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	2.8E-08	mg/kg-day	N/A	N/A	N/A	8.3E-08	mg/kg-day	2.0E-02	mg/kg-day	4.2E-06
				Aroclor 1260	6E-02	mg/kg	3.0E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	6.1E-09	8.9E-09	mg/kg-day	2.0E-05	mg/kg-day	4.4E-04
				Antimony	2E+01	mg/kg	8.0E-07	mg/kg-day	N/A	N/A	N/A	2.3E-06	mg/kg-day	4.0E-04	mg/kg-day	5.8E-03
				Arsenic	2E+03	mg/kg	9.2E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	7.1E-05	2.7E-04	mg/kg-day	5.9E-04	mg/kg-day	4.6E-01
				Barium	9E+01	mg/kg	4.5E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	7.0E-02	mg/kg-day	1.9E-04
				Cadmium	6E+00	mg/kg	3.3E-07	mg/kg-day	N/A	N/A	N/A	9.6E-07	mg/kg-day	1.0E-03	mg/kg-day	9.6E-04
				Chromium III	9E+02	mg/kg	4.8E-05	mg/kg-day	N/A	N/A	N/A	1.4E-04	mg/kg-day	1.5E+00	mg/kg-day	9.4E-05
				Copper	8E+02	mg/kg	3.9E-05	mg/kg-day	N/A	N/A	N/A	1.1E-04	mg/kg-day	3.0E-02	mg/kg-day	3.8E-03
				Lead												
				Manganese	9E+02	mg/kg	4.7E-05	mg/kg-day	N/A	N/A	N/A	1.4E-04	mg/kg-day	7.0E-02	mg/kg-day	2.0E-03
				Mercury	5E+00	mg/kg	2.8E-07	mg/kg-day	N/A	N/A	N/A	8.1E-07	mg/kg-day	1.0E-04	mg/kg-day	8.1E-03
				Nickel	3E+01	mg/kg	1.7E-06	mg/kg-day	N/A	N/A	N/A	5.1E-06	mg/kg-day	2.0E-02	mg/kg-day	2.5E-04
				Thallium	6E-01	mg/kg	2.9E-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	7E+01	mg/kg	3.5E-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	mg/kg	6.7E-05	mg/kg-day	N/A	N/A	N/A	1.9E-04	mg/kg-day	3.0E-01	mg/kg-day	6.5E-04
			Exp. Route Total								7E-05					5E-01
			Dermal													
				Benzo(a)anthracene	4E-01	mg/kg	2.3E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.7E-08	6.7E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	5.4E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.0E-07	1.6E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	6.2E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.6E-08	1.8E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	7E-01	mg/kg	4.0E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	2.9E-09	1.2E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	1.7E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.3E-07	5.1E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	7E-01	mg/kg	4.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.9E-08	1.2E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	3.0E-08	mg/kg-day	N/A	N/A	N/A	8.6E-08	mg/kg-day	2.0E-02	mg/kg-day	4.3E-06
				Aroclor 1260	6E-02	mg/kg	3.4E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	6.8E-09	9.9E-09	mg/kg-day	2.0E-05	mg/kg-day	4.9E-04
				Arsenic	2E+03	mg/kg	2.2E-05	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.3E-05	6.4E-05	mg/kg-day	3.0E-04	mg/kg-day	2.1E-01
				Cadmium	6E+00	mg/kg	2.6E-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
			Exp. Route Total								3E-05					2E-01
		Exposure Point Total									1E-04					7E-01

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station NT-3	Ingestion													
				Trichloroethene	5E-02	mg/kg	2.8E-09	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.1E-09	8.1E-09	mg/kg-day	3.0E-04	mg/kg-day	2.7E-05
				Benzo(a)anthracene	6E-01	mg/kg	2.9E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.1E-08	8.5E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	5.2E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.8E-07	1.5E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	7.9E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.7E-08	2.3E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	7E-01	mg/kg	3.8E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	2.8E-09	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	1.7E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.2E-07	4.9E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	7E-01	mg/kg	3.9E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.8E-08	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	6E-01	mg/kg	3.0E-08	mg/kg-day	N/A	N/A	N/A	8.7E-08	mg/kg-day	2.0E-02	mg/kg-day	4.4E-06
				Aroclor 1260	6E-02	mg/kg	3.0E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	6.1E-09	8.9E-09	mg/kg-day	2.0E-05	mg/kg-day	4.4E-04
				Antimony	2E+01	mg/kg	7.9E-07	mg/kg-day	N/A	N/A	N/A	2.3E-06	mg/kg-day	4.0E-04	mg/kg-day	5.8E-03
				Arsenic	5E+02	mg/kg	2.6E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.0E-05	7.6E-05	mg/kg-day	5.9E-04	mg/kg-day	1.3E-01
				Barium	9E+01	mg/kg	4.9E-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
				Cadmium	7E+00	mg/kg	3.5E-07	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	1.0E-03	mg/kg-day	1.0E-03
				Chromium III	1E+03	mg/kg	5.4E-05	mg/kg-day	N/A	N/A	N/A	1.6E-04	mg/kg-day	1.5E+00	mg/kg-day	1.1E-04
				Copper	8E+02	mg/kg	4.4E-05	mg/kg-day	N/A	N/A	N/A	1.3E-04	mg/kg-day	3.0E-02	mg/kg-day	4.2E-03
				Lead												
				Manganese	1E+03	mg/kg	5.2E-05	mg/kg-day	N/A	N/A	N/A	1.5E-04	mg/kg-day	7.0E-02	mg/kg-day	2.2E-03
				Mercury	5E+00	mg/kg	2.6E-07	mg/kg-day	N/A	N/A	N/A	7.7E-07	mg/kg-day	1.0E-04	mg/kg-day	7.7E-03
				Nickel	4E+01	mg/kg	1.9E-06	mg/kg-day	N/A	N/A	N/A	5.5E-06	mg/kg-day	2.0E-02	mg/kg-day	2.8E-04
				Thallium	6E-01	mg/kg	3.0E-08	mg/kg-day	N/A	N/A	N/A	8.6E-08	mg/kg-day	8.0E-05	mg/kg-day	1.1E-03
				Vanadium	7E+01	mg/kg	3.5E-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	mg/kg	6.3E-05	mg/kg-day	N/A	N/A	N/A	1.8E-04	mg/kg-day	3.0E-01	mg/kg-day	6.1E-04
			Exp. Route Total								2E-05					2E-01
			Dermal													
				Benzo(a)anthracene	6E-01	mg/kg	3.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.2E-08	8.9E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	5.4E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.0E-07	1.6E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	8.1E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.9E-08	2.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	7E-01	mg/kg	3.9E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	2.9E-09	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	1.7E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.3E-07	5.1E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	7E-01	mg/kg	4.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.9E-08	1.2E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	6E-01	mg/kg	3.1E-08	mg/kg-day	N/A	N/A	N/A	9.0E-08	mg/kg-day	2.0E-02	mg/kg-day	4.5E-06
				Aroclor 1260	8E-02	mg/kg	3.4E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	6.8E-09	9.9E-09	mg/kg-day	2.0E-05	mg/kg-day	4.9E-04
				Arsenic	5E+02	mg/kg	6.2E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	9.3E-06	1.8E-05	mg/kg-day	3.0E-04	mg/kg-day	6.0E-02
				Cadmium	7E+00	mg/kg	2.8E-08	mg/kg-day	N/A	N/A	N/A	8.2E-08	mg/kg-day	2.5E-05	mg/kg-day	3.3E-03
			Exp. Route Total								1E-05					6E-02
		Exposure Point Total									3E-05					2E-01

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station WG	Ingestion													
				Trichloroethene	4E-02	mg/kg	2.2E-09	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	8.8E-10	6.4E-09	mg/kg-day	3.0E-04	mg/kg-day	2.1E-05
				Benzo(a)anthracene	1E-01	mg/kg	6.8E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.0E-09	2.0E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	8.4E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	6.1E-08	2.4E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E-01	mg/kg	1.5E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.1E-08	4.4E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E-01	mg/kg	1.0E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	7.6E-10	3.1E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	5E-02	mg/kg	2.4E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.8E-08	7.0E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	7.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.3E-09	2.1E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E-01	mg/kg	8.4E-09	mg/kg-day	N/A	N/A	N/A	2.4E-08	mg/kg-day	2.0E-02	mg/kg-day	1.2E-06
				Aroclor 1260	1E-02	mg/kg	5.8E-10	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.2E-09	1.7E-09	mg/kg-day	2.0E-05	mg/kg-day	8.4E-05
				Antimony	9E+00	mg/kg	4.8E-07	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	4.0E-04	mg/kg-day	3.5E-03
				Arsenic	3E+02	mg/kg	1.4E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.1E-05	4.0E-05	mg/kg-day	5.9E-04	mg/kg-day	6.8E-02
				Barium	9E+01	mg/kg	4.9E-06	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	7.0E-02	mg/kg-day	2.1E-04
				Cadmium	6E+00	mg/kg	3.3E-07	mg/kg-day	N/A	N/A	N/A	9.7E-07	mg/kg-day	1.0E-03	mg/kg-day	9.7E-04
				Chromium III	9E+02	mg/kg	4.9E-05	mg/kg-day	N/A	N/A	N/A	1.4E-04	mg/kg-day	1.5E+00	mg/kg-day	9.5E-05
				Copper	6E+02	mg/kg	3.3E-05	mg/kg-day	N/A	N/A	N/A	9.6E-05	mg/kg-day	3.0E-02	mg/kg-day	3.2E-03
				Lead												
				Manganese	1E+03	mg/kg	5.3E-05	mg/kg-day	N/A	N/A	N/A	1.5E-04	mg/kg-day	7.0E-02	mg/kg-day	2.2E-03
				Mercury	3E+00	mg/kg	1.5E-07	mg/kg-day	N/A	N/A	N/A	4.5E-07	mg/kg-day	1.0E-04	mg/kg-day	4.5E-03
				Nickel	3E+01	mg/kg	1.8E-06	mg/kg-day	N/A	N/A	N/A	5.3E-06	mg/kg-day	2.0E-02	mg/kg-day	2.6E-04
				Thallium	4E-01	mg/kg	2.3E-08	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	7E+01	mg/kg	3.4E-06	mg/kg-day	N/A	N/A	N/A	9.9E-06	mg/kg-day	1.0E-03	mg/kg-day	9.9E-03
				Zinc	1E+03	mg/kg	5.7E-05	mg/kg-day	N/A	N/A	N/A	1.7E-04	mg/kg-day	3.0E-01	mg/kg-day	5.5E-04
			Exp. Route Total								1E-05					9E-02
			Dermal													
				Benzo(a)anthracene	1E-01	mg/kg	7.1E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.2E-09	2.1E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	8.7E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	6.3E-08	2.5E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E-01	mg/kg	1.6E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.1E-08	4.6E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E-01	mg/kg	1.1E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	7.9E-10	3.2E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	5E-02	mg/kg	2.5E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.8E-08	7.3E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	7.6E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.5E-09	2.2E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E-01	mg/kg	8.7E-09	mg/kg-day	N/A	N/A	N/A	2.5E-08	mg/kg-day	2.0E-02	mg/kg-day	1.3E-06
				Aroclor 1260	1E-02	mg/kg	6.4E-10	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.3E-09	1.9E-09	mg/kg-day	2.0E-05	mg/kg-day	9.4E-05
				Arsenic	3E+02	mg/kg	3.3E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.9E-06	9.6E-06	mg/kg-day	3.0E-04	mg/kg-day	3.2E-02
				Cadmium	6E+00	mg/kg	2.7E-08	mg/kg-day	N/A	N/A	N/A	7.8E-08	mg/kg-day	2.5E-05	mg/kg-day	3.1E-03
			Exp. Route Total								5E-06					4E-02
		Exposure Point Total									2E-05					1E-01

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station WW	Ingestion													
				Benzo(b)fluoranthene	3E-01	mg/kg	1.7E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.3E-08	5.0E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	6E-01	mg/kg	3.2E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	2.3E-09	9.3E-08	mg/kg-day	N/A	N/A	N/A
				Antimony	6E+01	mg/kg	3.0E-06	mg/kg-day	N/A	N/A	N/A	8.7E-06	mg/kg-day	4.0E-04	mg/kg-day	2.2E-02
				Arsenic	5E+01	mg/kg	2.9E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.2E-06	8.3E-06	mg/kg-day	5.9E-04	mg/kg-day	1.4E-02
				Barium	1E+03	mg/kg	7.6E-05	mg/kg-day	N/A	N/A	N/A	2.2E-04	mg/kg-day	7.0E-02	mg/kg-day	3.2E-03
				Cadmium	1E+01	mg/kg	5.0E-07	mg/kg-day	N/A	N/A	N/A	1.5E-06	mg/kg-day	1.0E-03	mg/kg-day	1.5E-03
				Chromium III	2E+04	mg/kg	8.1E-04	mg/kg-day	N/A	N/A	N/A	2.4E-03	mg/kg-day	1.5E+00	mg/kg-day	1.6E-03
				Copper	4E+02	mg/kg	2.2E-05	mg/kg-day	N/A	N/A	N/A	6.3E-05	mg/kg-day	3.0E-02	mg/kg-day	2.1E-03
				Lead												
				Manganese	4E+02	mg/kg	2.2E-05	mg/kg-day	N/A	N/A	N/A	6.5E-05	mg/kg-day	7.0E-02	mg/kg-day	9.3E-04
				Mercury	1E+00	mg/kg	6.2E-08	mg/kg-day	N/A	N/A	N/A	1.8E-07	mg/kg-day	1.0E-04	mg/kg-day	1.8E-03
				Nickel	3E+01	mg/kg	1.3E-06	mg/kg-day	N/A	N/A	N/A	3.8E-06	mg/kg-day	2.0E-02	mg/kg-day	1.9E-04
				Thallium	2E+00	mg/kg	8.0E-08	mg/kg-day	N/A	N/A	N/A	2.3E-07	mg/kg-day	8.0E-05	mg/kg-day	2.9E-03
				Vanadium	8E+01	mg/kg	4.0E-06	mg/kg-day	N/A	N/A	N/A	1.2E-05	mg/kg-day	1.0E-03	mg/kg-day	1.2E-02
				Zinc	1E+03	mg/kg	7.0E-05	mg/kg-day	N/A	N/A	N/A	2.0E-04	mg/kg-day	3.0E-01	mg/kg-day	6.8E-04
				Chromium VI	2E+01	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	3.1E-06	mg/kg-day	3.0E-03	mg/kg-day	1.0E-03
			Exp. Route Total								2E-06					6E-02
			Dermal													
				Benzo(b)fluoranthene	3E-01	mg/kg	1.8E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.3E-08	5.2E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	6E-01	mg/kg	3.3E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	2.4E-09	9.7E-08	mg/kg-day	N/A	N/A	N/A
				Arsenic	5E+01	mg/kg	6.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.0E-06	2.0E-06	mg/kg-day	3.0E-04	mg/kg-day	6.7E-03
				Cadmium	1E+01	mg/kg	4.0E-08	mg/kg-day	N/A	N/A	N/A	1.2E-07	mg/kg-day	2.5E-05	mg/kg-day	4.7E-03
			Exp. Route Total								1E-06					1E-02
		Exposure Point Total									3E-06					7E-02

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station JY	Ingestion													
				Aroclor 1254	1E+00	mg/kg	7.1E-08	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.4E-07	2.1E-07	mg/kg-day	2.0E-05	mg/kg-day	1.0E-02
				Aroclor 1260	1E+00	mg/kg	7.7E-08	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.5E-07	2.2E-07	mg/kg-day	2.0E-05	mg/kg-day	1.1E-02
				Antimony	2E+01	mg/kg	1.0E-06	mg/kg-day	N/A	N/A	N/A	3.0E-06	mg/kg-day	4.0E-04	mg/kg-day	7.4E-03
				Arsenic	3E+02	mg/kg	1.5E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.1E-05	4.3E-05	mg/kg-day	5.9E-04	mg/kg-day	7.3E-02
				Barium	2E+02	mg/kg	9.5E-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
				Cadmium	1E+01	mg/kg	7.6E-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
				Chromium III	1E+03	mg/kg	6.1E-05	mg/kg-day	N/A	N/A	N/A	1.8E-04	mg/kg-day	1.5E+00	mg/kg-day	1.2E-04
				Copper	5E+02	mg/kg	2.6E-05	mg/kg-day	N/A	N/A	N/A	7.7E-05	mg/kg-day	3.0E-02	mg/kg-day	2.6E-03
				Lead												
				Manganese	4E+02	mg/kg	1.9E-05	mg/kg-day	N/A	N/A	N/A	5.6E-05	mg/kg-day	7.0E-02	mg/kg-day	8.0E-04
				Mercury	2E+00	mg/kg	9.5E-08	mg/kg-day	N/A	N/A	N/A	2.8E-07	mg/kg-day	1.0E-04	mg/kg-day	2.8E-03
				Nickel	8E+01	mg/kg	3.9E-06	mg/kg-day	N/A	N/A	N/A	1.1E-05	mg/kg-day	2.0E-02	mg/kg-day	5.7E-04
				Thallium	4E+00	mg/kg	2.1E-07	mg/kg-day	N/A	N/A	N/A	6.2E-07	mg/kg-day	8.0E-05	mg/kg-day	7.7E-03
				Vanadium	6E+01	mg/kg	3.4E-06	mg/kg-day	N/A	N/A	N/A	9.8E-06	mg/kg-day	1.0E-03	mg/kg-day	9.8E-03
				Zinc	2E+03	mg/kg	1.2E-04	mg/kg-day	N/A	N/A	N/A	3.6E-04	mg/kg-day	3.0E-01	mg/kg-day	1.2E-03
				Chromium VI	2E+00	mg/kg	8.0E-08	mg/kg-day	N/A	N/A	N/A	2.3E-07	mg/kg-day	3.0E-03	mg/kg-day	7.7E-05
			Exp. Route Total								1E-05					1E-01
			Dermal													
				Aroclor 1254	1E+00	mg/kg	6.0E-08	mg/kg-day	N/A	(mg/kg-day) $^{-1}$	N/A	2.3E-07	mg/kg-day	2.0E-05	mg/kg-day	1.2E-02
				Aroclor 1260	1E+00	mg/kg	6.6E-08	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.7E-07	2.5E-07	mg/kg-day	2.0E-05	mg/kg-day	1.3E-02
				Arsenic	3E+02	mg/kg	3.5E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.3E-06	1.0E-05	mg/kg-day	3.0E-04	mg/kg-day	3.4E-02
				Cadmium	1E+01	mg/kg	6.1E-08	mg/kg-day	N/A	N/A	N/A	1.8E-07	mg/kg-day	2.5E-05	mg/kg-day	7.1E-03
			Exp. Route Total								5E-06					7E-02
		Exposure Point Total									2E-05					2E-01

TABLE 3-7.2.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station WS/WSS	Ingestion													
				Antimony	5E+00	mg/kg	3.4E-07	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	4.0E-04	mg/kg-day	2.5E-03
				Arsenic	2E+02	mg/kg	1.6E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.2E-05	4.6E-05	mg/kg-day	5.9E-04	mg/kg-day	7.8E-02
				Barium	1E+02	mg/kg	9.8E-06	mg/kg-day	N/A	N/A	N/A	2.9E-05	mg/kg-day	7.0E-02	mg/kg-day	4.1E-04
				Cadmium	1E+01	mg/kg	7.5E-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
				Chromium III	7E+02	mg/kg	5.1E-05	mg/kg-day	N/A	N/A	N/A	1.5E-04	mg/kg-day	1.5E+00	mg/kg-day	9.9E-05
				Copper	4E+02	mg/kg	2.9E-05	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	1E+03	mg/kg	8.5E-05	mg/kg-day	N/A	N/A	N/A	2.5E-04	mg/kg-day	7.0E-02	mg/kg-day	3.5E-03
				Mercury	1E+00	mg/kg	9.5E-08	mg/kg-day	N/A	N/A	N/A	2.8E-07	mg/kg-day	1.0E-04	mg/kg-day	2.8E-03
				Nickel	4E+01	mg/kg	2.5E-06	mg/kg-day	N/A	N/A	N/A	7.4E-06	mg/kg-day	2.0E-02	mg/kg-day	3.7E-04
				Thallium	1E+00	mg/kg	7.7E-08	mg/kg-day	N/A	N/A	N/A	2.2E-07	mg/kg-day	8.0E-05	mg/kg-day	2.8E-03
				Vanadium	4E+01	mg/kg	3.1E-06	mg/kg-day	N/A	N/A	N/A	9.1E-06	mg/kg-day	1.0E-03	mg/kg-day	9.1E-03
				Zinc	2E+03	mg/kg	1.4E-04	mg/kg-day	N/A	N/A	N/A	4.2E-04	mg/kg-day	3.0E-01	mg/kg-day	1.4E-03
				Chromium VI	9E-01	mg/kg	6.6E-08	mg/kg-day	N/A	N/A	N/A	1.9E-07	mg/kg-day	3.0E-03	mg/kg-day	6.4E-05
			Exp. Route Total								1E-05					1E-01
			Dermal													
				Arsenic	2E+02	mg/kg	3.8E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.7E-06	1.1E-05	mg/kg-day	3.0E-04	mg/kg-day	3.7E-02
				Cadmium	1E+01	mg/kg	6.0E-08	mg/kg-day	N/A	N/A	N/A	1.7E-07	mg/kg-day	2.5E-05	mg/kg-day	7.0E-03
			Exp. Route Total								6E-06					4E-02
		Exposure Point Total									2E-05					1E-01

TABLE 3-7.2.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station TT-30	Ingestion													
				Arsenic	1E+03	mg/kg	1.9E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.5E-05	5.5E-05	mg/kg-day	5.9E-04	mg/kg-day	9.3E-02
				Barium	3E+01	mg/kg	5.7E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	7.0E-02	mg/kg-day	2.4E-05
				Cadmium	7E+00	mg/kg	1.2E-07	mg/kg-day	N/A	N/A	N/A	3.6E-07	mg/kg-day	1.0E-03	mg/kg-day	3.6E-04
				Chromium III	5E+03	mg/kg	9.3E-05	mg/kg-day	N/A	N/A	N/A	2.7E-04	mg/kg-day	1.5E+00	mg/kg-day	1.8E-04
				Copper	4E+03	mg/kg	6.6E-05	mg/kg-day	N/A	N/A	N/A	1.9E-04	mg/kg-day	3.0E-02	mg/kg-day	6.4E-03
				Lead												
				Manganese	2E+02	mg/kg	3.6E-06	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+01	mg/kg	1.6E-06	mg/kg-day	N/A	N/A	N/A	4.5E-06	mg/kg-day	1.0E-04	mg/kg-day	4.5E-02
				Nickel	8E+00	mg/kg	1.4E-07	mg/kg-day	N/A	N/A	N/A	4.1E-07	mg/kg-day	2.0E-02	mg/kg-day	2.0E-05
				Thallium	2E+00	mg/kg	2.6E-08	mg/kg-day	N/A	N/A	N/A	7.6E-08	mg/kg-day	8.0E-05	mg/kg-day	9.5E-04
				Vanadium	2E+01	mg/kg	3.7E-07	mg/kg-day	N/A	N/A	N/A	1.1E-06	mg/kg-day	1.0E-03	mg/kg-day	1.1E-03
				Zinc	1E+03	mg/kg	2.0E-05	mg/kg-day	N/A	N/A	N/A	6.0E-05	mg/kg-day	3.0E-01	mg/kg-day	2.0E-04
				Chromium VI	7E+00	mg/kg	1.2E-07	mg/kg-day	N/A	N/A	N/A	3.5E-07	mg/kg-day	3.0E-03	mg/kg-day	1.2E-04
			Exp. Route Total								1E-05					1E-01
			Dermal													
				Arsenic	1E+03	mg/kg	4.5E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.8E-06	1.3E-05	mg/kg-day	3.0E-04	mg/kg-day	4.4E-02
				Cadmium	7E+00	mg/kg	9.9E-09	mg/kg-day	N/A	N/A	N/A	2.9E-08	mg/kg-day	2.5E-05	mg/kg-day	1.2E-03
			Exp. Route Total								7E-06					5E-02
		Exposure Point Total									2E-05					2E-01
		Station TT-31	Ingestion													
				Arsenic	3E+01	mg/kg	1.6E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.2E-06	4.6E-06	mg/kg-day	5.9E-04	mg/kg-day	7.8E-03
				Barium	2E+02	mg/kg	8.3E-06	mg/kg-day	N/A	N/A	N/A	2.4E-05	mg/kg-day	7.0E-02	mg/kg-day	3.5E-04
				Cadmium	6E+00	mg/kg	2.9E-07	mg/kg-day	N/A	N/A	N/A	8.4E-07	mg/kg-day	1.0E-03	mg/kg-day	8.4E-04
				Chromium III	3E+02	mg/kg	1.5E-05	mg/kg-day	N/A	N/A	N/A	4.5E-05	mg/kg-day	1.5E+00	mg/kg-day	3.0E-05
				Copper	2E+02	mg/kg	9.5E-06	mg/kg-day	N/A	N/A	N/A	2.8E-05	mg/kg-day	3.0E-02	mg/kg-day	9.2E-04
				Lead												
				Manganese	1E+03	mg/kg	6.3E-05	mg/kg-day	N/A	N/A	N/A	1.8E-04	mg/kg-day	7.0E-02	mg/kg-day	2.6E-03
				Mercury	2E+00	mg/kg	9.4E-08	mg/kg-day	N/A	N/A	N/A	2.7E-07	mg/kg-day	1.0E-04	mg/kg-day	2.7E-03
				Nickel	4E+01	mg/kg	1.9E-06	mg/kg-day	N/A	N/A	N/A	5.4E-06	mg/kg-day	2.0E-02	mg/kg-day	2.7E-04
				Vanadium	6E+01	mg/kg	3.0E-06	mg/kg-day	N/A	N/A	N/A	8.6E-06	mg/kg-day	1.0E-03	mg/kg-day	8.6E-03
				Zinc	7E+02	mg/kg	3.5E-05	mg/kg-day	N/A	N/A	N/A	1.0E-04	mg/kg-day	3.0E-01	mg/kg-day	3.4E-04
			Exp. Route Total								1E-06					2E-02
			Dermal													
				Arsenic	3E+01	mg/kg	3.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.7E-07	1.1E-06	mg/kg-day	3.0E-04	mg/kg-day	3.7E-03
				Cadmium	6E+00	mg/kg	2.3E-08	mg/kg-day	N/A	N/A	N/A	6.7E-08	mg/kg-day	2.5E-05	mg/kg-day	2.7E-03
			Exp. Route Total								6E-07					6E-03
		Exposure Point Total									2E-06					3E-02

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station CB-01	Ingestion													
				Antimony	2E+00	mg/kg	1.4E-07	mg/kg-day	N/A	N/A	N/A	4.2E-07	mg/kg-day	4.0E-04	mg/kg-day	1.0E-03
				Arsenic	6E+01	mg/kg	4.0E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.1E-06	1.2E-05	mg/kg-day	5.9E-04	mg/kg-day	2.0E-02
				Barium	6E+01	mg/kg	4.1E-06	mg/kg-day	N/A	N/A	N/A	1.2E-05	mg/kg-day	7.0E-02	mg/kg-day	1.7E-04
				Cadmium	9E+00	mg/kg	6.5E-07	mg/kg-day	N/A	N/A	N/A	1.9E-06	mg/kg-day	1.0E-03	mg/kg-day	1.9E-03
				Chromium III	3E+02	mg/kg	2.3E-05	mg/kg-day	N/A	N/A	N/A	6.8E-05	mg/kg-day	1.5E+00	mg/kg-day	4.5E-05
				Copper	7E+02	mg/kg	5.2E-05	mg/kg-day	N/A	N/A	N/A	1.5E-04	mg/kg-day	3.0E-02	mg/kg-day	5.1E-03
				Lead												
				Manganese	7E+02	mg/kg	4.8E-05	mg/kg-day	N/A	N/A	N/A	1.4E-04	mg/kg-day	7.0E-02	mg/kg-day	2.0E-03
				Mercury	3E+00	mg/kg	2.1E-07	mg/kg-day	N/A	N/A	N/A	6.0E-07	mg/kg-day	1.0E-04	mg/kg-day	6.0E-03
				Nickel	2E+01	mg/kg	1.4E-06	mg/kg-day	N/A	N/A	N/A	4.2E-06	mg/kg-day	2.0E-02	mg/kg-day	2.1E-04
				Thallium	3E+00	mg/kg	1.8E-07	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	8E+01	mg/kg	5.5E-06	mg/kg-day	N/A	N/A	N/A	1.6E-05	mg/kg-day	1.0E-03	mg/kg-day	1.6E-02
				Zinc	6E+02	mg/kg	4.5E-05	mg/kg-day	N/A	N/A	N/A	1.3E-04	mg/kg-day	3.0E-01	mg/kg-day	4.3E-04
			Exp. Route Total								3E-06					6E-02
			Dermal													
				Arsenic	6E+01	mg/kg	9.7E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.5E-06	2.8E-06	mg/kg-day	3.0E-04	mg/kg-day	9.4E-03
				Cadmium	9E+00	mg/kg	5.2E-08	mg/kg-day	N/A	N/A	N/A	1.5E-07	mg/kg-day	2.5E-05	mg/kg-day	6.0E-03
			Exp. Route Total								1E-06					2E-02
		Exposure Point Total									5E-06					7E-02
		Station CB-02	Ingestion													
				Antimony	2E+00	mg/kg	1.3E-07	mg/kg-day	N/A	N/A	N/A	3.7E-07	mg/kg-day	4.0E-04	mg/kg-day	9.1E-04
				Arsenic	4E+01	mg/kg	2.9E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.2E-06	8.4E-06	mg/kg-day	5.9E-04	mg/kg-day	1.4E-02
				Barium	2E+02	mg/kg	1.2E-05	mg/kg-day	N/A	N/A	N/A	3.5E-05	mg/kg-day	7.0E-02	mg/kg-day	5.0E-04
				Cadmium	4E+00	mg/kg	2.7E-07	mg/kg-day	N/A	N/A	N/A	7.8E-07	mg/kg-day	1.0E-03	mg/kg-day	7.8E-04
				Chromium III	1E+02	mg/kg	1.0E-05	mg/kg-day	N/A	N/A	N/A	2.9E-05	mg/kg-day	1.5E+00	mg/kg-day	1.9E-05
				Copper	1E+02	mg/kg	6.8E-06	mg/kg-day	N/A	N/A	N/A	2.0E-05	mg/kg-day	3.0E-02	mg/kg-day	6.6E-04
				Lead												
				Manganese	7E+01	mg/kg	5.0E-06	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	7.0E-02	mg/kg-day	2.1E-04
				Mercury	3E-01	mg/kg	2.3E-08	mg/kg-day	N/A	N/A	N/A	6.7E-08	mg/kg-day	1.0E-04	mg/kg-day	6.7E-04
				Nickel	1E+01	mg/kg	7.0E-07	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	2.0E-02	mg/kg-day	1.0E-04
				Vanadium	3E+01	mg/kg	2.2E-06	mg/kg-day	N/A	N/A	N/A	6.5E-06	mg/kg-day	1.0E-03	mg/kg-day	6.5E-03
				Zinc	3E+02	mg/kg	2.2E-05	mg/kg-day	N/A	N/A	N/A	6.4E-05	mg/kg-day	3.0E-01	mg/kg-day	2.1E-04
			Exp. Route Total								2E-06					2E-02
			Dermal													
				Arsenic	4E+01	mg/kg	6.9E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.0E-06	2.0E-06	mg/kg-day	3.0E-04	mg/kg-day	6.7E-03
				Cadmium	4E+00	mg/kg	2.1E-08	mg/kg-day	N/A	N/A	N/A	6.2E-08	mg/kg-day	2.5E-05	mg/kg-day	2.5E-03
			Exp. Route Total								1E-06					9E-03
		Exposure Point Total									3E-06					3E-02

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station CB-03	Ingestion													
				Antimony	5E+00	mg/kg	3.3E-07	mg/kg-day	N/A	N/A	N/A	9.8E-07	mg/kg-day	4.0E-04	mg/kg-day	2.4E-03
				Arsenic	6E+02	mg/kg	4.1E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.2E-05	1.2E-04	mg/kg-day	5.9E-04	mg/kg-day	2.1E-01
				Barium	7E+01	mg/kg	4.6E-06	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	7.0E-02	mg/kg-day	1.9E-04
				Cadmium	1E+01	mg/kg	9.1E-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
				Chromium III	8E+02	mg/kg	5.4E-05	mg/kg-day	N/A	N/A	N/A	1.6E-04	mg/kg-day	1.5E+00	mg/kg-day	1.0E-04
				Copper	4E+02	mg/kg	2.6E-05	mg/kg-day	N/A	N/A	N/A	7.7E-05	mg/kg-day	3.0E-02	mg/kg-day	2.6E-03
				Lead												
				Manganese	5E+02	mg/kg	3.2E-05	mg/kg-day	N/A	N/A	N/A	9.4E-05	mg/kg-day	7.0E-02	mg/kg-day	1.3E-03
				Mercury	2E+00	mg/kg	1.7E-07	mg/kg-day	N/A	N/A	N/A	5.0E-07	mg/kg-day	1.0E-04	mg/kg-day	5.0E-03
				Nickel	4E+01	mg/kg	2.6E-06	mg/kg-day	N/A	N/A	N/A	7.5E-06	mg/kg-day	2.0E-02	mg/kg-day	3.8E-04
				Thallium	1E+00	mg/kg	6.8E-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	6E+01	mg/kg	4.4E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	1.0E-03	mg/kg-day	1.3E-02
				Zinc	2E+03	mg/kg	1.5E-04	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								3E-05					2E-01
			Dermal													
				Arsenic	6E+02	mg/kg	9.9E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.5E-05	2.9E-05	mg/kg-day	3.0E-04	mg/kg-day	9.7E-02
				Cadmium	1E+01	mg/kg	7.3E-08	mg/kg-day	N/A	N/A	N/A	2.1E-07	mg/kg-day	2.5E-05	mg/kg-day	8.5E-03
			Exp. Route Total								1E-05					1E-01
		Exposure Point Total									5E-05					3E-01
		Station CB-04	Ingestion													
				Antimony	5E+00	mg/kg	3.3E-07	mg/kg-day	N/A	N/A	N/A	9.7E-07	mg/kg-day	4.0E-04	mg/kg-day	2.4E-03
				Arsenic	2E+02	mg/kg	1.3E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	9.8E-06	3.7E-05	mg/kg-day	5.9E-04	mg/kg-day	6.3E-02
				Barium	8E+01	mg/kg	5.3E-06	mg/kg-day	N/A	N/A	N/A	1.6E-05	mg/kg-day	7.0E-02	mg/kg-day	2.2E-04
				Cadmium	6E+00	mg/kg	4.0E-07	mg/kg-day	N/A	N/A	N/A	1.2E-06	mg/kg-day	1.0E-03	mg/kg-day	1.2E-03
				Chromium III	3E+02	mg/kg	1.9E-05	mg/kg-day	N/A	N/A	N/A	5.5E-05	mg/kg-day	1.5E+00	mg/kg-day	3.7E-05
				Copper	2E+02	mg/kg	1.7E-05	mg/kg-day	N/A	N/A	N/A	5.0E-05	mg/kg-day	3.0E-02	mg/kg-day	1.7E-03
				Lead												
				Manganese	1E+03	mg/kg	9.6E-05	mg/kg-day	N/A	N/A	N/A	2.8E-04	mg/kg-day	7.0E-02	mg/kg-day	4.0E-03
				Mercury	1E+00	mg/kg	8.4E-08	mg/kg-day	N/A	N/A	N/A	2.5E-07	mg/kg-day	1.0E-04	mg/kg-day	2.5E-03
				Nickel	8E+01	mg/kg	5.4E-06	mg/kg-day	N/A	N/A	N/A	1.6E-05	mg/kg-day	2.0E-02	mg/kg-day	7.8E-04
				Thallium	5E+00	mg/kg	3.7E-07	mg/kg-day	N/A	N/A	N/A	1.1E-06	mg/kg-day	8.0E-05	mg/kg-day	1.3E-02
				Vanadium	7E+01	mg/kg	4.8E-06	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	1.0E-03	mg/kg-day	1.4E-02
				Zinc	3E+03	mg/kg	2.1E-04	mg/kg-day	N/A	N/A	N/A	6.2E-04	mg/kg-day	3.0E-01	mg/kg-day	2.1E-03
			Exp. Route Total								1E-05					1E-01
			Dermal													
				Arsenic	2E+02	mg/kg	3.0E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.6E-06	8.9E-06	mg/kg-day	3.0E-04	mg/kg-day	3.0E-02
				Cadmium	6E+00	mg/kg	3.2E-08	mg/kg-day	N/A	N/A	N/A	9.3E-08	mg/kg-day	2.5E-05	mg/kg-day	3.7E-03
			Exp. Route Total								5E-06					3E-02
		Exposure Point Total									1E-05					1E-01

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station CB-06	Ingestion													
				Antimony	5E+00	mg/kg	3.3E-07	mg/kg-day	N/A	N/A	N/A	9.6E-07	mg/kg-day	4.0E-04	mg/kg-day	2.4E-03
				Arsenic	1E+02	mg/kg	9.8E-06	mg/kg-day	7.7E-01	(mg/kg-day)$^{-1}$	7.5E-06	2.8E-05	mg/kg-day	5.9E-04	mg/kg-day	4.8E-02
				Barium	5E+01	mg/kg	3.6E-06	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	7.0E-02	mg/kg-day	1.5E-04
				Cadmium	2E+01	mg/kg	1.2E-06	mg/kg-day	N/A	N/A	N/A	3.5E-06	mg/kg-day	1.0E-03	mg/kg-day	3.5E-03
				Chromium III	5E+02	mg/kg	3.5E-05	mg/kg-day	N/A	N/A	N/A	1.0E-04	mg/kg-day	1.5E+00	mg/kg-day	8.7E-05
				Copper	2E+02	mg/kg	1.6E-05	mg/kg-day	N/A	N/A	N/A	4.8E-05	mg/kg-day	3.0E-02	mg/kg-day	1.6E-03
				Lead												
				Manganese	9E+01	mg/kg	6.5E-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	3E-01	mg/kg	2.4E-08	mg/kg-day	N/A	N/A	N/A	6.9E-08	mg/kg-day	1.0E-04	mg/kg-day	6.9E-04
				Nickel	3E+01	mg/kg	1.9E-06	mg/kg-day	N/A	N/A	N/A	5.6E-06	mg/kg-day	2.0E-02	mg/kg-day	2.8E-04
				Thallium	4E+00	mg/kg	2.9E-07	mg/kg-day	N/A	N/A	N/A	8.4E-07	mg/kg-day	8.0E-05	mg/kg-day	1.1E-02
				Vanadium	7E+01	mg/kg	5.0E-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
				Zinc	2E+03	mg/kg	1.4E-04	mg/kg-day	N/A	N/A	N/A	4.2E-04	mg/kg-day	3.0E-01	mg/kg-day	1.4E-03
				Chromium VI	6E-01	mg/kg	4.5E-08	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	3.0E-03	mg/kg-day	4.4E-05
			Exp. Route Total								8E-06					8E-02
			Dermal													
				Arsenic	1E+02	mg/kg	2.3E-06	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	3.5E-06	6.8E-06	mg/kg-day	3.0E-04	mg/kg-day	2.3E-02
				Cadmium	2E+01	mg/kg	9.6E-08	mg/kg-day	N/A	N/A	N/A	2.8E-07	mg/kg-day	2.5E-05	mg/kg-day	1.1E-02
			Exp. Route Total								4E-06					3E-02
		Exposure Point Total									1E-05					1E-01
		Station CB-07	Ingestion													
				Arsenic	2E+02	mg/kg	3.7E-06	mg/kg-day	7.7E-01	(mg/kg-day)$^{-1}$	2.8E-06	1.1E-05	mg/kg-day	5.9E-04	mg/kg-day	1.8E-02
				Barium	6E+01	mg/kg	9.8E-07	mg/kg-day	N/A	N/A	N/A	2.9E-06	mg/kg-day	7.0E-02	mg/kg-day	4.1E-05
				Cadmium	5E+00	mg/kg	8.5E-08	mg/kg-day	N/A	N/A	N/A	2.5E-07	mg/kg-day	1.0E-03	mg/kg-day	2.5E-04
				Chromium III	7E+02	mg/kg	1.2E-05	mg/kg-day	N/A	N/A	N/A	3.6E-05	mg/kg-day	1.5E+00	mg/kg-day	2.4E-05
				Copper	4E+02	mg/kg	7.6E-06	mg/kg-day	N/A	N/A	N/A	2.2E-05	mg/kg-day	3.0E-02	mg/kg-day	7.4E-04
				Lead												
				Manganese	6E+02	mg/kg	1.1E-05	mg/kg-day	N/A	N/A	N/A	3.3E-05	mg/kg-day	7.0E-02	mg/kg-day	4.7E-04
				Mercury	1E+00	mg/kg	2.3E-08	mg/kg-day	N/A	N/A	N/A	6.6E-08	mg/kg-day	1.0E-04	mg/kg-day	6.6E-04
				Nickel	2E+01	mg/kg	3.8E-07	mg/kg-day	N/A	N/A	N/A	1.1E-06	mg/kg-day	2.0E-02	mg/kg-day	5.6E-05
				Vanadium	9E+01	mg/kg	1.6E-06	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	1.0E-03	mg/kg-day	4.7E-03
				Zinc	6E+02	mg/kg	1.1E-05	mg/kg-day	N/A	N/A	N/A	3.1E-05	mg/kg-day	3.0E-01	mg/kg-day	1.0E-04
			Exp. Route Total								3E-06					3E-02
			Dermal													
				Arsenic	2E+02	mg/kg	8.8E-07	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	1.3E-06	2.6E-06	mg/kg-day	3.0E-04	mg/kg-day	8.6E-03
				Cadmium	5E+00	mg/kg	8.8E-09	mg/kg-day	N/A	N/A	N/A	2.0E-08	mg/kg-day	2.5E-05	mg/kg-day	7.9E-04
			Exp. Route Total								1E-06					9E-03
		Exposure Point Total									4E-06					3E-02

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station 16/TT-33	Ingestion													
				Benzo(a)anthracene	1E-01	mg/kg	5.8E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.2E-09	1.7E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E-01	mg/kg	7.3E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	5.3E-08	2.1E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E-01	mg/kg	1.4E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.9E-09	4.0E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E-01	mg/kg	5.2E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	3.8E-10	1.5E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	6E-02	mg/kg	3.1E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.3E-09	9.2E-09	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	1E-01	mg/kg	6.8E-09	mg/kg-day	N/A	N/A	N/A	2.0E-08	mg/kg-day	2.0E-02	mg/kg-day	9.9E-07
				Antimony	6E+00	mg/kg	3.1E-07	mg/kg-day	N/A	N/A	N/A	9.0E-07	mg/kg-day	4.0E-04	mg/kg-day	2.2E-03
				Arsenic	2E+02	mg/kg	1.2E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	9.5E-06	3.6E-05	mg/kg-day	5.9E-04	mg/kg-day	6.1E-02
				Barium	6E+01	mg/kg	3.3E-06	mg/kg-day	N/A	N/A	N/A	9.5E-06	mg/kg-day	7.0E-02	mg/kg-day	1.4E-04
				Cadmium	6E+00	mg/kg	2.9E-07	mg/kg-day	N/A	N/A	N/A	8.5E-07	mg/kg-day	1.0E-03	mg/kg-day	8.5E-04
				Chromium III	2E+03	mg/kg	1.2E-04	mg/kg-day	N/A	N/A	N/A	3.4E-04	mg/kg-day	1.5E+00	mg/kg-day	2.2E-04
				Copper	4E+02	mg/kg	2.1E-05	mg/kg-day	N/A	N/A	N/A	6.1E-05	mg/kg-day	3.0E-02	mg/kg-day	2.0E-03
				Lead												
				Manganese	8E+02	mg/kg	4.1E-05	mg/kg-day	N/A	N/A	N/A	1.2E-04	mg/kg-day	7.0E-02	mg/kg-day	1.7E-03
				Mercury	3E+00	mg/kg	1.8E-07	mg/kg-day	N/A	N/A	N/A	5.2E-07	mg/kg-day	1.0E-04	mg/kg-day	5.2E-03
				Nickel	2E+01	mg/kg	8.1E-07	mg/kg-day	N/A	N/A	N/A	2.4E-06	mg/kg-day	2.0E-02	mg/kg-day	1.2E-04
				Vanadium	3E+01	mg/kg	1.6E-06	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	1.0E-03	mg/kg-day	4.7E-03
				Zinc	9E+02	mg/kg	4.9E-05	mg/kg-day	N/A	N/A	N/A	1.4E-04	mg/kg-day	3.0E-01	mg/kg-day	4.7E-04
				Chromium VI	3E+00	mg/kg	1.5E-07	mg/kg-day	N/A	N/A	N/A	4.4E-07	mg/kg-day	3.0E-03	mg/kg-day	1.5E-04
			Exp. Route Total								1E-05					8E-02
			Dermal													
				Benzo(a)anthracene	1E-01	mg/kg	6.0E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.4E-09	1.7E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E-01	mg/kg	7.6E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	5.5E-08	2.2E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E-01	mg/kg	1.4E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.0E-08	4.1E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E-01	mg/kg	5.4E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	3.9E-10	1.6E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	6E-02	mg/kg	3.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.4E-09	9.5E-09	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	1E-01	mg/kg	7.1E-09	mg/kg-day	N/A	N/A	N/A	2.1E-08	mg/kg-day	2.0E-02	mg/kg-day	1.0E-06
				Arsenic	2E+02	mg/kg	3.0E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.4E-06	8.6E-06	mg/kg-day	3.0E-04	mg/kg-day	2.9E-02
				Cadmium	6E+00	mg/kg	2.3E-08	mg/kg-day	N/A	N/A	N/A	6.8E-08	mg/kg-day	2.5E-05	mg/kg-day	2.7E-03
			Exp. Route Total								5E-06					3E-02
		Exposure Point Total									1E-05					1E-01

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station 09	Ingestion													
				Benzo(a)anthracene	5E-01	mg/kg	2.5E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.8E-08	7.3E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	5E-01	mg/kg	2.6E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.9E-07	7.7E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	6.9E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.1E-08	2.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	6.3E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	4.6E-09	1.8E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	8E-02	mg/kg	4.2E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.1E-08	1.2E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	mg/kg	1.3E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.6E-09	3.8E-08	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	2.9E-07	mg/kg-day	2.0E-02	mg/kg-day	1.5E-05
				Antimony	1E+00	mg/kg	5.3E-08	mg/kg-day	N/A	N/A	N/A	1.5E-07	mg/kg-day	4.0E-04	mg/kg-day	3.9E-04
				Arsenic	3E+01	mg/kg	1.8E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.4E-06	5.3E-06	mg/kg-day	5.9E-04	mg/kg-day	9.0E-03
				Barium	3E+01	mg/kg	1.7E-06	mg/kg-day	N/A	N/A	N/A	5.1E-06	mg/kg-day	7.0E-02	mg/kg-day	7.2E-05
				Cadmium	7E-01	mg/kg	3.6E-08	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	1.0E-03	mg/kg-day	1.0E-04
				Chromium III	6E+01	mg/kg	3.1E-06	mg/kg-day	N/A	N/A	N/A	9.0E-06	mg/kg-day	1.5E+00	mg/kg-day	6.0E-06
				Copper	6E+01	mg/kg	3.3E-06	mg/kg-day	N/A	N/A	N/A	9.6E-06	mg/kg-day	3.0E-02	mg/kg-day	3.2E-04
				Lead												
				Manganese	3E+03	mg/kg	1.4E-04	mg/kg-day	N/A	N/A	N/A	4.0E-04	mg/kg-day	7.0E-02	mg/kg-day	5.8E-03
				Mercury	4E-01	mg/kg	2.0E-08	mg/kg-day	N/A	N/A	N/A	5.9E-08	mg/kg-day	1.0E-04	mg/kg-day	5.9E-04
				Nickel	1E+01	mg/kg	5.1E-07	mg/kg-day	N/A	N/A	N/A	1.5E-06	mg/kg-day	2.0E-02	mg/kg-day	7.4E-05
				Thallium	1E+00	mg/kg	6.8E-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	1E+01	mg/kg	7.1E-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
				Zinc	2E+02	mg/kg	1.2E-05	mg/kg-day	N/A	N/A	N/A	3.6E-05	mg/kg-day	3.0E-01	mg/kg-day	1.2E-04
			Exp. Route Total								2E-06					2E-02
			Dermal													
				Benzo(a)anthracene	5E-01	mg/kg	2.6E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.9E-08	7.6E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	5E-01	mg/kg	2.7E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.0E-07	8.0E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	7.2E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.2E-08	2.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	6.6E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	4.8E-09	1.9E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	8E-02	mg/kg	4.3E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.2E-08	1.3E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	mg/kg	1.4E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.0E-08	4.0E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E+00	mg/kg	1.0E-07	mg/kg-day	N/A	N/A	N/A	3.0E-07	mg/kg-day	2.0E-02	mg/kg-day	1.5E-05
				Arsenic	3E+01	mg/kg	4.4E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.6E-07	1.3E-06	mg/kg-day	3.0E-04	mg/kg-day	4.2E-03
				Cadmium	7E-01	mg/kg	2.8E-09	mg/kg-day	N/A	N/A	N/A	8.3E-09	mg/kg-day	2.5E-05	mg/kg-day	3.3E-04
			Exp. Route Total								1E-06					5E-03
		Exposure Point Total									3E-06					3E-02

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station AM	Ingestion													
				Antimony	2E+00	mg/kg	3.5E-08	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	4.0E-04	mg/kg-day	2.5E-04
				Arsenic	1E+02	mg/kg	2.1E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.6E-06	6.2E-06	mg/kg-day	5.9E-04	mg/kg-day	1.0E-02
				Barium	6E+01	mg/kg	1.0E-06	mg/kg-day	N/A	N/A	N/A	3.0E-06	mg/kg-day	7.0E-02	mg/kg-day	4.2E-05
				Cadmium	4E+00	mg/kg	6.8E-08	mg/kg-day	N/A	N/A	N/A	2.0E-07	mg/kg-day	1.0E-03	mg/kg-day	2.0E-04
				Chromium III	3E+02	mg/kg	5.6E-06	mg/kg-day	N/A	N/A	N/A	1.6E-05	mg/kg-day	1.5E+00	mg/kg-day	1.1E-05
				Copper	2E+02	mg/kg	3.4E-06	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	3.0E-02	mg/kg-day	3.3E-04
				Lead												
				Manganese	1E+03	mg/kg	2.0E-05	mg/kg-day	N/A	N/A	N/A	5.8E-05	mg/kg-day	7.0E-02	mg/kg-day	8.3E-04
				Mercury	2E+00	mg/kg	3.3E-08	mg/kg-day	N/A	N/A	N/A	9.7E-08	mg/kg-day	1.0E-04	mg/kg-day	9.7E-04
				Nickel	2E+01	mg/kg	3.1E-07	mg/kg-day	N/A	N/A	N/A	9.2E-07	mg/kg-day	2.0E-02	mg/kg-day	4.6E-05
				Thallium	4E-01	mg/kg	7.7E-09	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	3E+01	mg/kg	4.7E-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
				Zinc	9E+02	mg/kg	1.6E-05	mg/kg-day	N/A	N/A	N/A	4.8E-05	mg/kg-day	3.0E-01	mg/kg-day	1.6E-04
			Exp. Route Total								2E-06					1E-02
			Dermal													
				Arsenic	1E+02	mg/kg	5.1E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	7.6E-07	1.6E-06	mg/kg-day	3.0E-04	mg/kg-day	4.9E-03
				Cadmium	4E+00	mg/kg	5.4E-09	mg/kg-day	N/A	N/A	N/A	1.6E-08	mg/kg-day	2.5E-05	mg/kg-day	6.3E-04
			Exp. Route Total								8E-07					6E-03
		Exposure Point Total									2E-06					2E-02
		Station KF	Ingestion													
				Arsenic	5E+01	mg/kg	2.7E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.1E-06	7.9E-06	mg/kg-day	5.9E-04	mg/kg-day	1.3E-02
				Barium	4E+01	mg/kg	2.1E-06	mg/kg-day	N/A	N/A	N/A	6.2E-06	mg/kg-day	7.0E-02	mg/kg-day	8.9E-05
				Cadmium	1E+00	mg/kg	5.4E-08	mg/kg-day	N/A	N/A	N/A	1.6E-07	mg/kg-day	1.0E-03	mg/kg-day	1.6E-04
				Chromium III	9E+01	mg/kg	4.6E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	1.5E+00	mg/kg-day	8.9E-06
				Copper	1E+02	mg/kg	5.9E-06	mg/kg-day	N/A	N/A	N/A	1.7E-05	mg/kg-day	3.0E-02	mg/kg-day	5.7E-04
				Lead												
				Manganese	4E+02	mg/kg	1.9E-05	mg/kg-day	N/A	N/A	N/A	5.5E-05	mg/kg-day	7.0E-02	mg/kg-day	7.9E-04
				Mercury	9E-01	mg/kg	4.7E-08	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	1.0E-04	mg/kg-day	1.4E-03
				Nickel	9E+00	mg/kg	4.7E-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
				Vanadium	2E+01	mg/kg	1.2E-06	mg/kg-day	N/A	N/A	N/A	3.5E-06	mg/kg-day	1.0E-03	mg/kg-day	3.5E-03
				Zinc	3E+02	mg/kg	1.8E-05	mg/kg-day	N/A	N/A	N/A	5.3E-05	mg/kg-day	3.0E-01	mg/kg-day	1.8E-04
			Exp. Route Total								2E-06					2E-02
			Dermal													
				Arsenic	5E+01	mg/kg	6.5E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	9.7E-07	1.9E-06	mg/kg-day	3.0E-04	mg/kg-day	6.3E-03
				Cadmium	1E+00	mg/kg	4.3E-09	mg/kg-day	N/A	N/A	N/A	1.3E-08	mg/kg-day	2.5E-05	mg/kg-day	5.0E-04
			Exp. Route Total								1E-06					7E-03
		Exposure Point Total									3E-06					3E-02

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station 08	Ingestion													
				Benzo(a)anthracene	7E-01	mg/kg	3.6E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.6E-08	1.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	9E-01	mg/kg	4.9E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.6E-07	1.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	9.9E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	7.3E-08	2.9E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E+00	mg/kg	1.0E-07	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	7.6E-09	3.1E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	2E-01	mg/kg	8.4E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	6.1E-08	2.4E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	7E-01	mg/kg	3.6E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.6E-08	1.0E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	6E-01	mg/kg	3.2E-08	mg/kg-day	N/A	N/A	N/A	9.3E-08	mg/kg-day	2.0E-02	mg/kg-day	4.7E-06
				Antimony	2E+00	mg/kg	8.4E-08	mg/kg-day	N/A	N/A	N/A	2.4E-07	mg/kg-day	4.0E-04	mg/kg-day	6.1E-04
				Arsenic	3E+01	mg/kg	1.5E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.2E-06	4.4E-06	mg/kg-day	5.9E-04	mg/kg-day	7.5E-03
				Barium	2E+01	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	3.2E-06	mg/kg-day	7.0E-02	mg/kg-day	4.6E-05
				Chromium III	1E+02	mg/kg	6.2E-06	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	1.5E+00	mg/kg-day	1.2E-05
				Copper	1E+02	mg/kg	7.0E-06	mg/kg-day	N/A	N/A	N/A	2.0E-05	mg/kg-day	3.0E-02	mg/kg-day	6.8E-04
				Lead												
				Manganese	2E+02	mg/kg	1.2E-05	mg/kg-day	N/A	N/A	N/A	3.5E-05	mg/kg-day	7.0E-02	mg/kg-day	5.0E-04
				Mercury	1E+00	mg/kg	5.2E-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
				Nickel	2E+01	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	3.1E-06	mg/kg-day	2.0E-02	mg/kg-day	1.5E-04
				Thallium	2E+00	mg/kg	8.9E-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	2E+01	mg/kg	9.2E-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	5E+02	mg/kg	2.8E-05	mg/kg-day	N/A	N/A	N/A	8.2E-05	mg/kg-day	3.0E-01	mg/kg-day	2.7E-04
			Exp. Route Total								2E-06					2E-02
			Dermal													
				Benzo(a)anthracene	7E-01	mg/kg	3.7E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.7E-08	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	9E-01	mg/kg	5.1E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.7E-07	1.5E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	1.0E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	7.5E-08	3.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E+00	mg/kg	1.1E-07	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	7.9E-09	3.2E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	2E-01	mg/kg	8.7E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	6.3E-08	2.5E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	7E-01	mg/kg	3.7E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.7E-08	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	6E-01	mg/kg	3.3E-08	mg/kg-day	N/A	N/A	N/A	9.7E-08	mg/kg-day	2.0E-02	mg/kg-day	4.8E-06
				Arsenic	3E+01	mg/kg	3.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.4E-07	1.1E-06	mg/kg-day	3.0E-04	mg/kg-day	3.5E-03
			Exp. Route Total								1E-06					4E-03
		Exposure Point Total									3E-06					2E-02

TABLE 3-7.2.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station 07/DP	Ingestion													
				Trichloroethene	2E-02	mg/kg	1.2E-09	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	4.6E-10	3.4E-09	mg/kg-day	3.0E-04	mg/kg-day	1.1E-05
				Benzo(a)anthracene	6E+00	mg/kg	2.9E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.1E-07	8.5E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	6E+00	mg/kg	2.9E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.1E-06	8.5E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+01	mg/kg	5.0E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.6E-07	1.5E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	9E+00	mg/kg	4.8E-07	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	3.5E-08	1.4E-06	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1E+00	mg/kg	5.7E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.1E-07	1.7E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	4E+00	mg/kg	2.0E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.5E-07	5.9E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	7E+00	mg/kg	3.6E-07	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	2.0E-02	mg/kg-day	5.2E-05
				Aroclor 1260	7E-02	mg/kg	3.5E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	6.9E-09	1.0E-08	mg/kg-day	2.0E-05	mg/kg-day	5.1E-04
				Antimony	2E+00	mg/kg	1.2E-07	mg/kg-day	N/A	N/A	N/A	3.6E-07	mg/kg-day	4.0E-04	mg/kg-day	8.9E-04
				Arsenic	8E+01	mg/kg	4.2E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.2E-06	1.2E-05	mg/kg-day	5.9E-04	mg/kg-day	2.1E-02
				Barium	8E+01	mg/kg	4.4E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	7.0E-02	mg/kg-day	1.8E-04
				Cadmium	5E+00	mg/kg	2.7E-07	mg/kg-day	N/A	N/A	N/A	7.8E-07	mg/kg-day	1.0E-03	mg/kg-day	7.8E-04
				Chromium III	2E+02	mg/kg	1.3E-05	mg/kg-day	N/A	N/A	N/A	3.8E-05	mg/kg-day	1.5E+00	mg/kg-day	2.5E-05
				Copper	2E+02	mg/kg	1.2E-05	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	4E+02	mg/kg	2.2E-05	mg/kg-day	N/A	N/A	N/A	6.4E-05	mg/kg-day	7.0E-02	mg/kg-day	9.1E-04
				Mercury	3E+00	mg/kg	1.5E-07	mg/kg-day	N/A	N/A	N/A	4.2E-07	mg/kg-day	1.0E-04	mg/kg-day	4.2E-03
				Nickel	3E+01	mg/kg	1.4E-06	mg/kg-day	N/A	N/A	N/A	4.2E-06	mg/kg-day	2.0E-02	mg/kg-day	2.1E-04
				Thallium	2E+00	mg/kg	1.2E-07	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	5E+01	mg/kg	2.7E-06	mg/kg-day	N/A	N/A	N/A	7.9E-06	mg/kg-day	1.0E-03	mg/kg-day	7.9E-03
				Zinc	1E+03	mg/kg	7.0E-05	mg/kg-day	N/A	N/A	N/A	2.0E-04	mg/kg-day	3.0E-01	mg/kg-day	6.8E-04
			Exp. Route Total								7E-06					4E-02
			Dermal													
				Benzo(a)anthracene	6E+00	mg/kg	3.0E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.2E-07	8.8E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	6E+00	mg/kg	3.0E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.2E-06	8.8E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+01	mg/kg	5.2E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.8E-07	1.5E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	9E+00	mg/kg	5.0E-07	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	3.6E-08	1.5E-06	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1E+00	mg/kg	5.9E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.3E-07	1.7E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	4E+00	mg/kg	2.1E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.5E-07	6.1E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	7E+00	mg/kg	3.7E-07	mg/kg-day	N/A	N/A	N/A	1.1E-06	mg/kg-day	2.0E-02	mg/kg-day	5.4E-05
				Aroclor 1260	7E-02	mg/kg	3.9E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	7.8E-09	1.1E-08	mg/kg-day	2.0E-05	mg/kg-day	5.7E-04
				Arsenic	8E+01	mg/kg	1.0E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.5E-06	2.9E-06	mg/kg-day	3.0E-04	mg/kg-day	9.7E-03
				Cadmium	5E+00	mg/kg	2.1E-08	mg/kg-day	N/A	N/A	N/A	6.2E-08	mg/kg-day	2.5E-05	mg/kg-day	2.5E-03
			Exp. Route Total								5E-06					1E-02
		Exposure Point Total									1E-05					6E-02

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station LP	Ingestion													
				Antimony	2E+00	mg/kg	9.0E-08	mg/kg-day	N/A	N/A	N/A	2.6E-07	mg/kg-day	4.0E-04	mg/kg-day	6.5E-04
				Arsenic	2E+02	mg/kg	7.9E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	6.1E-06	2.3E-05	mg/kg-day	5.9E-04	mg/kg-day	3.9E-02
				Barium	4E+01	mg/kg	1.9E-06	mg/kg-day	N/A	N/A	N/A	5.7E-06	mg/kg-day	7.0E-02	mg/kg-day	8.1E-05
				Cadmium	3E+00	mg/kg	1.4E-07	mg/kg-day	N/A	N/A	N/A	4.0E-07	mg/kg-day	1.0E-03	mg/kg-day	4.0E-04
				Chromium III	8E+01	mg/kg	4.0E-06	mg/kg-day	N/A	N/A	N/A	1.2E-05	mg/kg-day	1.5E+00	mg/kg-day	7.8E-06
				Copper	4E+02	mg/kg	1.9E-05	mg/kg-day	N/A	N/A	N/A	5.6E-05	mg/kg-day	3.0E-02	mg/kg-day	1.9E-03
				Lead												
				Manganese	2E+02	mg/kg	1.1E-05	mg/kg-day	N/A	N/A	N/A	3.2E-05	mg/kg-day	7.0E-02	mg/kg-day	4.5E-04
				Mercury	7E-01	mg/kg	3.8E-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
				Nickel	1E+01	mg/kg	7.4E-07	mg/kg-day	N/A	N/A	N/A	2.2E-06	mg/kg-day	2.0E-02	mg/kg-day	1.1E-04
				Thallium	2E+00	mg/kg	9.9E-08	mg/kg-day	N/A	N/A	N/A	2.9E-07	mg/kg-day	8.0E-05	mg/kg-day	3.6E-03
				Vanadium	2E+01	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	3.2E-06	mg/kg-day	1.0E-03	mg/kg-day	3.2E-03
				Zinc	1E+03	mg/kg	6.8E-05	mg/kg-day	N/A	N/A	N/A	2.0E-04	mg/kg-day	3.0E-01	mg/kg-day	6.8E-04
			Exp. Route Total								6E-06					5E-02
			Dermal													
				Arsenic	2E+02	mg/kg	1.9E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.8E-06	5.5E-06	mg/kg-day	3.0E-04	mg/kg-day	1.8E-02
				Cadmium	3E+00	mg/kg	1.1E-08	mg/kg-day	N/A	N/A	N/A	3.2E-08	mg/kg-day	2.5E-05	mg/kg-day	1.3E-03
			Exp. Route Total								3E-06					2E-02
		Exposure Point Total									9E-06					7E-02
		Station AS	Ingestion													
				Antimony	3E+00	mg/kg	1.5E-07	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	1E+02	mg/kg	6.3E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	4.9E-06	1.8E-05	mg/kg-day	5.9E-04	mg/kg-day	3.1E-02
				Barium	1E+02	mg/kg	5.7E-06	mg/kg-day	N/A	N/A	N/A	1.7E-05	mg/kg-day	7.0E-02	mg/kg-day	2.4E-04
				Cadmium	1E+01	mg/kg	7.0E-07	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	1.0E-03	mg/kg-day	2.0E-03
				Chromium III	9E+02	mg/kg	4.8E-05	mg/kg-day	N/A	N/A	N/A	1.4E-04	mg/kg-day	1.5E+00	mg/kg-day	9.3E-05
				Copper	6E+02	mg/kg	3.0E-05	mg/kg-day	N/A	N/A	N/A	8.8E-05	mg/kg-day	3.0E-02	mg/kg-day	2.9E-03
				Lead												
				Manganese	4E+02	mg/kg	2.0E-05	mg/kg-day	N/A	N/A	N/A	5.9E-05	mg/kg-day	7.0E-02	mg/kg-day	8.4E-04
				Mercury	3E+00	mg/kg	1.6E-07	mg/kg-day	N/A	N/A	N/A	4.7E-07	mg/kg-day	1.0E-04	mg/kg-day	4.7E-03
				Nickel	4E+01	mg/kg	2.1E-06	mg/kg-day	N/A	N/A	N/A	6.0E-06	mg/kg-day	2.0E-02	mg/kg-day	3.0E-04
				Thallium	1E+00	mg/kg	6.3E-08	mg/kg-day	N/A	N/A	N/A	1.8E-07	mg/kg-day	8.0E-05	mg/kg-day	2.3E-03
				Vanadium	7E+01	mg/kg	3.8E-06	mg/kg-day	N/A	N/A	N/A	1.1E-05	mg/kg-day	1.0E-03	mg/kg-day	1.1E-02
				Zinc	2E+03	mg/kg	1.2E-04	mg/kg-day	N/A	N/A	N/A	3.5E-04	mg/kg-day	3.0E-01	mg/kg-day	1.2E-03
			Exp. Route Total								5E-06					6E-02
			Dermal													
				Arsenic	1E+02	mg/kg	1.5E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.3E-06	4.4E-06	mg/kg-day	3.0E-04	mg/kg-day	1.5E-02
				Cadmium	1E+01	mg/kg	5.6E-08	mg/kg-day	N/A	N/A	N/A	1.6E-07	mg/kg-day	2.5E-05	mg/kg-day	6.5E-03
			Exp. Route Total								2E-06					2E-02
		Exposure Point Total									7E-06					8E-02

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station 05	Ingestion													
				Benzo(a)anthracene	2E+00	mg/kg	1.2E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	8.8E-08	3.5E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	3E+00	mg/kg	1.3E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	9.6E-07	3.8E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E+00	mg/kg	1.6E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.1E-07	4.6E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E+00	mg/kg	9.9E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	7.3E-09	2.9E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E+00	mg/kg	6.3E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.6E-08	1.8E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E+00	mg/kg	1.2E-07	mg/kg-day	N/A	N/A	N/A	3.4E-07	mg/kg-day	2.0E-02	mg/kg-day	1.7E-05
				Antimony	2E+00	mg/kg	9.4E-08	mg/kg-day	N/A	N/A	N/A	2.7E-07	mg/kg-day	4.0E-04	mg/kg-day	6.9E-04
				Arsenic	2E+01	mg/kg	1.3E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.0E-06	3.8E-06	mg/kg-day	5.9E-04	mg/kg-day	6.4E-03
				Barium	4E+01	mg/kg	2.3E-06	mg/kg-day	N/A	N/A	N/A	6.6E-06	mg/kg-day	7.0E-02	mg/kg-day	9.4E-05
				Cadmium	2E+00	mg/kg	8.4E-08	mg/kg-day	N/A	N/A	N/A	2.4E-07	mg/kg-day	1.0E-03	mg/kg-day	2.4E-04
				Chromium III	1E+02	mg/kg	7.8E-06	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	1.5E+00	mg/kg-day	1.5E-05
				Copper	8E+01	mg/kg	4.2E-06	mg/kg-day	N/A	N/A	N/A	1.2E-05	mg/kg-day	3.0E-02	mg/kg-day	4.1E-04
				Lead												
				Manganese	1E+03	mg/kg	5.0E-05	mg/kg-day	N/A	N/A	N/A	1.5E-04	mg/kg-day	7.0E-02	mg/kg-day	2.1E-03
				Mercury	1E+00	mg/kg	6.3E-08	mg/kg-day	N/A	N/A	N/A	1.8E-07	mg/kg-day	1.0E-04	mg/kg-day	1.8E-03
				Nickel	1E+01	mg/kg	5.6E-07	mg/kg-day	N/A	N/A	N/A	1.6E-06	mg/kg-day	2.0E-02	mg/kg-day	8.2E-05
				Thallium	1E+00	mg/kg	5.1E-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	mg/kg	1.0E-06	mg/kg-day	N/A	N/A	N/A	3.0E-06	mg/kg-day	1.0E-03	mg/kg-day	3.0E-03
				Zinc	6E+02	mg/kg	3.0E-05	mg/kg-day	N/A	N/A	N/A	8.7E-05	mg/kg-day	3.0E-01	mg/kg-day	2.9E-04
			Exp. Route Total								2E-06					2E-02
			Dermal													
				Benzo(a)anthracene	2E+00	mg/kg	1.2E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.1E-08	3.6E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	3E+00	mg/kg	1.4E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	9.9E-07	4.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E+00	mg/kg	1.6E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.2E-07	4.8E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E+00	mg/kg	1.0E-07	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	7.5E-09	3.0E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E+00	mg/kg	6.5E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.8E-08	1.9E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E+00	mg/kg	1.2E-07	mg/kg-day	N/A	N/A	N/A	3.5E-07	mg/kg-day	2.0E-02	mg/kg-day	1.7E-05
				Arsenic	2E+01	mg/kg	3.1E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.7E-07	9.1E-07	mg/kg-day	3.0E-04	mg/kg-day	3.0E-03
				Cadmium	2E+00	mg/kg	6.7E-09	mg/kg-day	N/A	N/A	N/A	1.9E-08	mg/kg-day	2.5E-05	mg/kg-day	7.8E-04
			Exp. Route Total								2E-06					4E-03
		Exposure Point Total									4E-06					2E-02

TABLE 3-7.2.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station 03	Ingestion													
				Benzo(a)anthracene	1E+00	mg/kg	6.8E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.0E-08	2.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	5.2E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.8E-07	1.5E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	7.3E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.3E-08	2.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	6E-01	mg/kg	3.3E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	2.4E-09	9.8E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1E-01	mg/kg	5.8E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.2E-08	1.7E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	6E-01	mg/kg	3.2E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.4E-08	9.5E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	1E+00	mg/kg	5.2E-08	mg/kg-day	N/A	N/A	N/A	1.5E-07	mg/kg-day	2.0E-02	mg/kg-day	7.6E-06
				Aroclor 1260	1E-01	mg/kg	5.8E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.2E-08	1.7E-08	mg/kg-day	2.0E-05	mg/kg-day	8.4E-04
				Antimony	2E+00	mg/kg	8.9E-08	mg/kg-day	N/A	N/A	N/A	2.6E-07	mg/kg-day	4.0E-04	mg/kg-day	6.5E-04
				Arsenic	9E+01	mg/kg	4.5E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.5E-06	1.3E-05	mg/kg-day	5.9E-04	mg/kg-day	2.2E-02
				Barium	8E+01	mg/kg	4.4E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	7.0E-02	mg/kg-day	1.8E-04
				Cadmium	5E+00	mg/kg	2.7E-07	mg/kg-day	N/A	N/A	N/A	7.9E-07	mg/kg-day	1.0E-03	mg/kg-day	7.9E-04
				Chromium III	2E+02	mg/kg	1.0E-05	mg/kg-day	N/A	N/A	N/A	3.1E-05	mg/kg-day	1.5E+00	mg/kg-day	2.0E-05
				Copper	2E+02	mg/kg	8.9E-06	mg/kg-day	N/A	N/A	N/A	2.6E-05	mg/kg-day	3.0E-02	mg/kg-day	8.7E-04
				Lead												
				Manganese	5E+02	mg/kg	2.6E-05	mg/kg-day	N/A	N/A	N/A	7.7E-05	mg/kg-day	7.0E-02	mg/kg-day	1.1E-03
				Mercury	7E-01	mg/kg	3.7E-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
				Nickel	3E+01	mg/kg	1.4E-06	mg/kg-day	N/A	N/A	N/A	4.1E-06	mg/kg-day	2.0E-02	mg/kg-day	2.0E-04
				Vanadium	5E+01	mg/kg	2.6E-06	mg/kg-day	N/A	N/A	N/A	7.5E-06	mg/kg-day	1.0E-03	mg/kg-day	7.5E-03
				Zinc	1E+03	mg/kg	7.4E-05	mg/kg-day	N/A	N/A	N/A	2.2E-04	mg/kg-day	3.0E-01	mg/kg-day	7.2E-04
			Exp. Route Total								4E-06					4E-02
			Dermal													
				Benzo(a)anthracene	1E+00	mg/kg	7.1E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.2E-08	2.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	5.4E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.0E-07	1.6E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	7.6E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.5E-08	2.2E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	6E-01	mg/kg	3.5E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	2.5E-09	1.0E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1E-01	mg/kg	6.0E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.4E-08	1.7E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	6E-01	mg/kg	3.4E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.5E-08	9.8E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	1E+00	mg/kg	5.4E-08	mg/kg-day	N/A	N/A	N/A	1.6E-07	mg/kg-day	2.0E-02	mg/kg-day	7.9E-06
				Aroclor 1260	1E-01	mg/kg	6.4E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.3E-08	1.9E-08	mg/kg-day	2.0E-05	mg/kg-day	9.4E-04
				Arsenic	9E+01	mg/kg	1.1E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.6E-06	3.2E-06	mg/kg-day	3.0E-04	mg/kg-day	1.1E-02
				Cadmium	5E+00	mg/kg	2.2E-08	mg/kg-day	N/A	N/A	N/A	6.3E-08	mg/kg-day	2.5E-05	mg/kg-day	2.5E-03
			Exp. Route Total								2E-06					1E-02
		Exposure Point Total									6E-06					5E-02

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station 01	Ingestion													
				Benzo(a)anthracene	3E-01	mg/kg	1.3E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.6E-09	3.8E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	1.1E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	8.0E-08	3.2E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E-01	mg/kg	8.9E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.5E-09	2.6E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E-01	mg/kg	1.1E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	8.0E-10	3.2E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	6.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.6E-09	1.8E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	2.4E-08	mg/kg-day	N/A	N/A	N/A	7.1E-08	mg/kg-day	2.0E-02	mg/kg-day	3.5E-06
				Antimony	9E-01	mg/kg	4.6E-08	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	4.0E-04	mg/kg-day	3.4E-04
				Arsenic	6E+00	mg/kg	3.2E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.5E-07	9.4E-07	mg/kg-day	5.9E-04	mg/kg-day	1.6E-03
				Barium	1E+01	mg/kg	6.4E-07	mg/kg-day	N/A	N/A	N/A	1.9E-06	mg/kg-day	7.0E-02	mg/kg-day	2.7E-05
				Cadmium	2E-01	mg/kg	8.7E-09	mg/kg-day	N/A	N/A	N/A	2.5E-08	mg/kg-day	1.0E-03	mg/kg-day	2.5E-05
				Chromium III	1E+01	mg/kg	5.1E-07	mg/kg-day	N/A	N/A	N/A	1.5E-06	mg/kg-day	1.5E+00	mg/kg-day	1.0E-06
				Copper	2E+01	mg/kg	8.7E-07	mg/kg-day	N/A	N/A	N/A	2.5E-06	mg/kg-day	3.0E-02	mg/kg-day	8.4E-05
				Lead												
				Manganese	1E+02	mg/kg	5.4E-06	mg/kg-day	N/A	N/A	N/A	1.6E-05	mg/kg-day	7.0E-02	mg/kg-day	2.2E-04
				Nickel	7E+00	mg/kg	3.8E-07	mg/kg-day	N/A	N/A	N/A	1.1E-06	mg/kg-day	2.0E-02	mg/kg-day	5.5E-05
				Thallium	5E-01	mg/kg	2.7E-08	mg/kg-day	N/A	N/A	N/A	7.9E-08	mg/kg-day	8.0E-05	mg/kg-day	9.9E-04
				Vanadium	1E+01	mg/kg	6.1E-07	mg/kg-day	N/A	N/A	N/A	1.8E-06	mg/kg-day	1.0E-03	mg/kg-day	1.8E-03
				Zinc	2E+02	mg/kg	8.0E-06	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	3.0E-01	mg/kg-day	7.8E-05
			Exp. Route Total								4E-07					5E-03
			Dermal													
				Benzo(a)anthracene	3E-01	mg/kg	1.4E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.9E-09	4.0E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	1.1E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	8.3E-08	3.3E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E-01	mg/kg	9.2E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.7E-09	2.7E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E-01	mg/kg	1.1E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	8.3E-10	3.3E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	6.5E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.8E-09	1.9E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	2.5E-08	mg/kg-day	N/A	N/A	N/A	7.3E-08	mg/kg-day	2.0E-02	mg/kg-day	3.7E-06
				Arsenic	6E+00	mg/kg	7.7E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.2E-07	2.3E-07	mg/kg-day	3.0E-04	mg/kg-day	7.5E-04
				Cadmium	2E-01	mg/kg	6.9E-10	mg/kg-day	N/A	N/A	N/A	2.0E-09	mg/kg-day	2.5E-05	mg/kg-day	8.1E-05
			Exp. Route Total								2E-07					8E-04
		Exposure Point Total									6E-07					6E-03
	Exposure Medium Total										N/A					N/A

TABLE 3-7.2.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Soil	Surface Soil	Station NR	Ingestion													
				Arsenic	2E+02	mg/kg	7.0E-06	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	1.0E-05	2.0E-05	mg/kg-day	3.0E-04	mg/kg-day	6.8E-02
				Cadmium	2E+00	mg/kg	7.4E-08	mg/kg-day	N/A	N/A	N/A	2.2E-07	mg/kg-day	1.0E-03	mg/kg-day	2.2E-04
				Chromium VI	2E+02	mg/kg	6.0E-06	mg/kg-day	N/A	N/A	N/A	1.7E-05	mg/kg-day	3.0E-03	mg/kg-day	5.8E-03
				Copper	2E+02	mg/kg	6.0E-06	mg/kg-day	N/A	N/A	N/A	1.7E-05	mg/kg-day	3.0E-02	mg/kg-day	5.8E-04
				Manganese	8E+02	mg/kg	2.9E-05	mg/kg-day	N/A	N/A	N/A	8.4E-05	mg/kg-day	7.0E-02	mg/kg-day	1.2E-03
				Mercury	2E+00	mg/kg	7.0E-08	mg/kg-day	N/A	N/A	N/A	2.0E-07	mg/kg-day	1.0E-04	mg/kg-day	2.0E-03
				Vanadium	3E+01	mg/kg	8.8E-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
				Zinc	5E+02	mg/kg	1.8E-05	mg/kg-day	N/A	N/A	N/A	5.3E-05	mg/kg-day	3.0E-01	mg/kg-day	1.8E-04
			Exp. Route Total								1E-05					8E-02
			Dermal													
				Arsenic	2E+02	mg/kg	1.7E-06	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	2.5E-06	4.9E-06	mg/kg-day	3.0E-04	mg/kg-day	1.6E-02
				Cadmium	2E+00	mg/kg	5.9E-09	mg/kg-day	N/A	N/A	N/A	1.7E-08	mg/kg-day	2.5E-05	mg/kg-day	6.9E-04
			Exp. Route Total								3E-06					2E-02
		Exposure Point Total									1E-05					1E-01
		Station WS/WSS	Ingestion													
				Arsenic	1E+01	mg/kg	7.0E-07	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	1.0E-06	2.0E-06	mg/kg-day	3.0E-04	mg/kg-day	6.8E-03
				Cadmium	4E-01	mg/kg	2.6E-08	mg/kg-day	N/A	N/A	N/A	7.5E-08	mg/kg-day	1.0E-03	mg/kg-day	7.5E-05
				Chromium VI	2E+01	mg/kg	1.3E-06	mg/kg-day	N/A	N/A	N/A	3.7E-06	mg/kg-day	3.0E-03	mg/kg-day	1.2E-03
				Copper	3E+01	mg/kg	2.4E-06	mg/kg-day	N/A	N/A	N/A	6.9E-06	mg/kg-day	3.0E-02	mg/kg-day	2.3E-04
				Manganese	2E+02	mg/kg	1.3E-05	mg/kg-day	N/A	N/A	N/A	3.9E-05	mg/kg-day	7.0E-02	mg/kg-day	5.5E-04
				Mercury	1E-01	mg/kg	8.2E-09	mg/kg-day	N/A	N/A	N/A	2.4E-08	mg/kg-day	1.0E-04	mg/kg-day	2.4E-04
				Thallium	1E+00	mg/kg	8.3E-08	mg/kg-day	N/A	N/A	N/A	2.4E-07	mg/kg-day	8.0E-05	mg/kg-day	3.0E-03
				Vanadium	2E+01	mg/kg	1.7E-06	mg/kg-day	N/A	N/A	N/A	4.8E-06	mg/kg-day	1.0E-03	mg/kg-day	4.8E-03
				Zinc	7E+01	mg/kg	5.0E-06	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	3.0E-01	mg/kg-day	4.9E-05
			Exp. Route Total								1E-06					2E-02
			Dermal													
				Arsenic	1E+01	mg/kg	1.7E-07	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	2.5E-07	4.9E-07	mg/kg-day	3.0E-04	mg/kg-day	1.6E-03
				Cadmium	4E-01	mg/kg	2.1E-09	mg/kg-day	N/A	N/A	N/A	6.0E-09	mg/kg-day	2.5E-05	mg/kg-day	2.4E-04
			Exp. Route Total								3E-07					2E-03
		Exposure Point Total									1E-06					2E-02

TABLE 3-7.2.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Soil (cont.)	Surface Soil (cont.)	Station CB-05	Ingestion													
				Arsenic	6E+01	mg/kg	4.2E-06	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	6.3E-06	1.2E-05	mg/kg-day	3.0E-04	mg/kg-day	4.1E-02
				Cadmium	7E-01	mg/kg	4.8E-08	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	1.0E-03	mg/kg-day	1.4E-04
				Chromium VI	1E+02	mg/kg	9.8E-06	mg/kg-day	N/A	N/A	N/A	2.8E-05	mg/kg-day	3.0E-03	mg/kg-day	9.4E-03
				Copper	5E+01	mg/kg	3.5E-06	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	3.0E-02	mg/kg-day	3.4E-04
				Manganese	2E+02	mg/kg	1.6E-05	mg/kg-day	N/A	N/A	N/A	4.6E-05	mg/kg-day	7.0E-02	mg/kg-day	6.6E-04
				Mercury	3E-01	mg/kg	2.0E-08	mg/kg-day	N/A	N/A	N/A	5.9E-08	mg/kg-day	1.0E-04	mg/kg-day	5.9E-04
				Thallium	2E+00	mg/kg	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.3E-07	mg/kg-day	8.0E-05	mg/kg-day	4.2E-03
				Vanadium	3E+01	mg/kg	1.8E-06	mg/kg-day	N/A	N/A	N/A	5.3E-06	mg/kg-day	1.0E-03	mg/kg-day	5.3E-03
				Zinc	2E+02	mg/kg	1.2E-05	mg/kg-day	N/A	N/A	N/A	3.4E-05	mg/kg-day	3.0E-01	mg/kg-day	1.1E-04
			Exp. Route Total								6E-06					6E-02
			Dermal													
				Arsenic	6E+01	mg/kg	1.0E-06	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	1.5E-06	2.9E-06	mg/kg-day	3.0E-04	mg/kg-day	9.7E-03
				Cadmium	7E-01	mg/kg	3.8E-09	mg/kg-day	N/A	N/A	N/A	1.1E-08	mg/kg-day	2.5E-05	mg/kg-day	4.4E-04
			Exp. Route Total								1E-06					1E-02
		Exposure Point Total									8E-06					7E-02
		Station DA	Ingestion													
				Arsenic	2E+02	mg/kg	1.0E-05	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	1.5E-05	3.0E-05	mg/kg-day	3.0E-04	mg/kg-day	9.9E-02
				Cadmium	5E+00	mg/kg	2.4E-07	mg/kg-day	N/A	N/A	N/A	7.0E-07	mg/kg-day	1.0E-03	mg/kg-day	7.0E-04
				Chromium VI	4E+02	mg/kg	2.0E-05	mg/kg-day	N/A	N/A	N/A	6.0E-05	mg/kg-day	3.0E-03	mg/kg-day	2.0E-02
				Copper	2E+02	mg/kg	1.3E-05	mg/kg-day	N/A	N/A	N/A	3.8E-05	mg/kg-day	3.0E-02	mg/kg-day	1.3E-03
				Manganese	3E+03	mg/kg	1.5E-04	mg/kg-day	N/A	N/A	N/A	4.4E-04	mg/kg-day	7.0E-02	mg/kg-day	6.2E-03
				Mercury	3E+00	mg/kg	1.8E-07	mg/kg-day	N/A	N/A	N/A	5.2E-07	mg/kg-day	1.0E-04	mg/kg-day	5.2E-03
				Thallium	3E+00	mg/kg	1.7E-07	mg/kg-day	N/A	N/A	N/A	5.1E-07	mg/kg-day	8.0E-05	mg/kg-day	6.4E-03
				Vanadium	4E+01	mg/kg	2.0E-06	mg/kg-day	N/A	N/A	N/A	5.8E-06	mg/kg-day	1.0E-03	mg/kg-day	5.8E-03
				Zinc	6E+02	mg/kg	3.1E-05	mg/kg-day	N/A	N/A	N/A	9.0E-05	mg/kg-day	3.0E-01	mg/kg-day	3.0E-04
			Exp. Route Total								2E-05					1E-01
			Dermal													
				Arsenic	2E+02	mg/kg	2.4E-06	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	3.7E-06	7.1E-06	mg/kg-day	3.0E-04	mg/kg-day	2.4E-02
				Cadmium	5E+00	mg/kg	1.9E-08	mg/kg-day	N/A	N/A	N/A	5.6E-08	mg/kg-day	2.5E-05	mg/kg-day	2.2E-03
			Exp. Route Total								4E-06					3E-02
		Exposure Point Total									2E-05					2E-01

TABLE 3-7.2.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Soil (cont.)	Surface Soil (cont.)	Station KF	Ingestion													
				Arsenic	5E+01	mg/kg	2.4E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.6E-06	7.0E-06	mg/kg-day	3.0E-04	mg/kg-day	2.3E-02
				Cadmium	1E+00	mg/kg	7.4E-08	mg/kg-day	N/A	N/A	N/A	2.2E-07	mg/kg-day	1.0E-03	mg/kg-day	2.2E-04
				Chromium VI	1E+02	mg/kg	6.2E-06	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	3.0E-03	mg/kg-day	6.1E-03
				Copper	1E+02	mg/kg	5.7E-06	mg/kg-day	N/A	N/A	N/A	1.7E-05	mg/kg-day	3.0E-02	mg/kg-day	5.5E-04
				Manganese	8E+02	mg/kg	4.3E-05	mg/kg-day	N/A	N/A	N/A	1.3E-04	mg/kg-day	7.0E-02	mg/kg-day	1.8E-03
				Mercury	7E-01	mg/kg	3.6E-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	3E+01	mg/kg	1.5E-06	mg/kg-day	N/A	N/A	N/A	4.4E-06	mg/kg-day	1.0E-03	mg/kg-day	4.4E-03
				Zinc	4E+02	mg/kg	2.0E-05	mg/kg-day	N/A	N/A	N/A	6.0E-05	mg/kg-day	3.0E-01	mg/kg-day	2.0E-04
			Exp. Route Total								4E-06					4E-02
			Dermal													
				Arsenic	5E+01	mg/kg	5.7E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	8.6E-07	1.7E-06	mg/kg-day	3.0E-04	mg/kg-day	5.6E-03
				Cadmium	1E+00	mg/kg	5.9E-09	mg/kg-day	N/A	N/A	N/A	1.7E-08	mg/kg-day	2.5E-05	mg/kg-day	6.9E-04
			Exp. Route Total								9E-07					6E-03
		Exposure Point Total									4E-06					4E-02
		Station 07/DP	Ingestion													
				Arsenic	4E+01	mg/kg	2.3E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.5E-06	6.8E-06	mg/kg-day	3.0E-04	mg/kg-day	2.3E-02
				Cadmium	2E-01	mg/kg	9.9E-09	mg/kg-day	N/A	N/A	N/A	2.9E-08	mg/kg-day	1.0E-03	mg/kg-day	2.9E-05
				Chromium VI	1E+02	mg/kg	7.3E-06	mg/kg-day	N/A	N/A	N/A	2.1E-05	mg/kg-day	3.0E-03	mg/kg-day	7.1E-03
				Copper	1E+02	mg/kg	5.3E-06	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	3.0E-02	mg/kg-day	5.1E-04
				Manganese	3E+02	mg/kg	1.7E-05	mg/kg-day	N/A	N/A	N/A	5.0E-05	mg/kg-day	7.0E-02	mg/kg-day	7.2E-04
				Mercury	1E+00	mg/kg	5.0E-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	2E+00	mg/kg	9.8E-08	mg/kg-day	N/A	N/A	N/A	2.9E-07	mg/kg-day	8.0E-05	mg/kg-day	3.6E-03
				Vanadium	3E+01	mg/kg	1.6E-06	mg/kg-day	N/A	N/A	N/A	4.8E-06	mg/kg-day	1.0E-03	mg/kg-day	4.8E-03
				Zinc	2E+04	mg/kg	9.9E-04	mg/kg-day	N/A	N/A	N/A	2.9E-03	mg/kg-day	3.0E-01	mg/kg-day	9.7E-03
			Exp. Route Total								3E-06					5E-02
			Dermal													
				Arsenic	4E+01	mg/kg	5.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	8.4E-07	1.6E-06	mg/kg-day	3.0E-04	mg/kg-day	5.4E-03
				Cadmium	2E-01	mg/kg	7.9E-10	mg/kg-day	N/A	N/A	N/A	2.3E-09	mg/kg-day	2.5E-05	mg/kg-day	9.2E-05
			Exp. Route Total								8E-07					6E-03
		Exposure Point Total									4E-06					6E-02
	Exposure Medium Total										N/A					N/A

TABLE 3-7.2.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	Fish Fillet Tissue	Fillet, Reach 3	Ingestion													
				4,4'-DDD	7E-03	mg/kg	2.1E-07	mg/kg-day	2.4E-01	(mg/kg-day) $^{-1}$	5.1E-08	6.2E-07	mg/kg-day	2.0E-03	mg/kg-day	3.1E-04
				4,4'-DDE	2E-02	mg/kg	5.1E-07	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	1.7E-07	1.5E-06	mg/kg-day	3.0E-04	mg/kg-day	4.9E-03
				4,4'-DDT	3E-03	mg/kg	9.0E-08	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	3.0E-08	2.6E-07	mg/kg-day	5.0E-04	mg/kg-day	5.2E-04
				Aldrin	3E-04	mg/kg	1.0E-08	mg/kg-day	1.7E+01	(mg/kg-day) $^{-1}$	1.7E-07	3.0E-08	mg/kg-day	3.0E-05	mg/kg-day	9.9E-04
				alpha-Chlordane	6E-03	mg/kg	1.8E-07	mg/kg-day	3.5E-01	(mg/kg-day) $^{-1}$	6.4E-08	5.4E-07	mg/kg-day	5.0E-04	mg/kg-day	1.1E-03
				Aroclor-1254	2E-02	mg/kg	7.0E-07	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.4E-06	2.0E-06	mg/kg-day	2.0E-05	mg/kg-day	1.0E-01
				Aroclor-1260	6E-02	mg/kg	2.0E-06	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	4.0E-06	5.8E-06	mg/kg-day	2.0E-05	mg/kg-day	2.9E-01
				delta-BHC	6E-04	mg/kg	1.8E-08	mg/kg-day	N/A	N/A	N/A	5.4E-08	mg/kg-day	3.0E-04	mg/kg-day	1.8E-04
				Dieldrin	2E-03	mg/kg	7.1E-08	mg/kg-day	1.6E+01	(mg/kg-day) $^{-1}$	1.1E-06	2.1E-07	mg/kg-day	5.0E-05	mg/kg-day	4.1E-03
				Heptachlor epoxide	8E-04	mg/kg	2.7E-08	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	2.5E-07	7.9E-08	mg/kg-day	1.3E-05	mg/kg-day	6.0E-03
				Antimony	9E-02	mg/kg	3.0E-08	mg/kg-day	N/A	N/A	N/A	8.8E-06	mg/kg-day	4.0E-04	mg/kg-day	2.2E-02
				Lead												
				Mercury	4E-01	mg/kg	1.2E-05	mg/kg-day	N/A	N/A	N/A	3.4E-05	mg/kg-day	1.0E-04	mg/kg-day	3.4E-01
				Selenium	6E-01	mg/kg	1.8E-05	mg/kg-day	N/A	N/A	N/A	5.3E-05	mg/kg-day	5.0E-03	mg/kg-day	1.1E-02
			Exp. Route Total								7E-06					8E-01
		Exposure Point Total									7E-06					8E-01
		Fillet, Reaches 4 and 5	Ingestion													
				4,4'-DDD	2E-02	mg/kg	5.0E-07	mg/kg-day	2.4E-01	(mg/kg-day) $^{-1}$	1.2E-07	1.5E-06	mg/kg-day	2.0E-03	mg/kg-day	7.3E-04
				4,4'-DDE	9E-02	mg/kg	2.7E-06	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	9.3E-07	8.0E-06	mg/kg-day	3.0E-04	mg/kg-day	2.7E-02
				4,4'-DDT	8E-03	mg/kg	2.6E-07	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	8.7E-08	7.5E-07	mg/kg-day	5.0E-04	mg/kg-day	1.5E-03
				Aldrin	5E-04	mg/kg	1.7E-08	mg/kg-day	1.7E+01	(mg/kg-day) $^{-1}$	2.9E-07	4.9E-08	mg/kg-day	3.0E-05	mg/kg-day	1.6E-03
				alpha-Chlordane	3E-03	mg/kg	8.1E-08	mg/kg-day	3.5E-01	(mg/kg-day) $^{-1}$	2.8E-08	2.4E-07	mg/kg-day	5.0E-04	mg/kg-day	4.7E-04
				Aroclor-1254	9E-02	mg/kg	2.7E-06	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	5.4E-06	7.9E-06	mg/kg-day	2.0E-05	mg/kg-day	4.0E-01
				Aroclor-1260	2E-01	mg/kg	6.0E-06	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.2E-05	1.7E-05	mg/kg-day	2.0E-05	mg/kg-day	8.7E-01
				Dieldrin	2E-03	mg/kg	4.8E-08	mg/kg-day	1.6E+01	(mg/kg-day) $^{-1}$	7.6E-07	1.4E-07	mg/kg-day	5.0E-05	mg/kg-day	2.8E-03
				Antimony	8E-02	mg/kg	2.4E-06	mg/kg-day	N/A	N/A	N/A	7.1E-06	mg/kg-day	4.0E-04	mg/kg-day	1.8E-02
				Lead												
				Mercury	3E-01	mg/kg	9.6E-06	mg/kg-day	N/A	N/A	N/A	2.8E-05	mg/kg-day	1.0E-04	mg/kg-day	2.8E-01
				Selenium	7E-01	mg/kg	2.2E-05	mg/kg-day	N/A	N/A	N/A	6.3E-05	mg/kg-day	5.0E-03	mg/kg-day	1.3E-02
			Exp. Route Total								2E-05					2E+00
		Exposure Point Total									2E-05					2E+00

TABLE 3-7.2.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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 (cont.)	Fish Fillet Tissue (cont.)	Fillet, Reach 6	Ingestion													
				4,4'-DDD	2E-02	mg/kg	6.4E-07	mg/kg-day	2.4E-01	(mg/kg-day) $^{-1}$	1.5E-07	1.9E-06	mg/kg-day	2.0E-03	mg/kg-day	9.3E-04
				4,4'-DDE	6E-02	mg/kg	1.9E-06	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	6.3E-07	5.4E-06	mg/kg-day	3.0E-04	mg/kg-day	1.8E-02
				4,4'-DDT	5E-03	mg/kg	1.5E-07	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	5.1E-08	4.4E-07	mg/kg-day	5.0E-04	mg/kg-day	8.7E-04
				Aldrin	5E-04	mg/kg	1.7E-08	mg/kg-day	1.7E+01	(mg/kg-day) $^{-1}$	2.9E-07	4.9E-08	mg/kg-day	3.0E-05	mg/kg-day	1.6E-03
				alpha-Chlordane	8E-03	mg/kg	2.7E-07	mg/kg-day	3.5E-01	(mg/kg-day) $^{-1}$	9.3E-08	7.8E-07	mg/kg-day	5.0E-04	mg/kg-day	1.6E-03
				Aroclor-1248	8E-03	mg/kg	2.5E-07	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	5.0E-07	7.3E-07	mg/kg-day	2.0E-05	mg/kg-day	3.7E-02
				Aroclor-1254	1E-01	mg/kg	4.1E-06	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	8.1E-06	1.2E-05	mg/kg-day	2.0E-05	mg/kg-day	5.9E-01
				Aroclor-1260	8E-02	mg/kg	2.5E-06	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	5.0E-06	7.3E-06	mg/kg-day	2.0E-05	mg/kg-day	3.6E-01
				Dieldrin	2E-03	mg/kg	7.3E-08	mg/kg-day	1.6E+01	(mg/kg-day) $^{-1}$	1.2E-06	2.1E-07	mg/kg-day	5.0E-05	mg/kg-day	4.3E-03
				Heptachlor epoxide	5E-04	mg/kg	1.7E-08	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	1.5E-07	4.9E-08	mg/kg-day	1.3E-05	mg/kg-day	3.8E-03
				Arsenic	2E-01	mg/kg	5.0E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	7.5E-06	1.5E-05	mg/kg-day	3.0E-04	mg/kg-day	4.9E-02
				Lead												
				Mercury	2E-01	mg/kg	6.4E-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	6E-01	mg/kg	2.0E-05	mg/kg-day	N/A	N/A	N/A	5.8E-05	mg/kg-day	5.0E-03	mg/kg-day	1.2E-02
			Exp. Route Total								2E-05					1E+00
		Exposure Point Total									2E-05					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 3-7.2.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	Surface Water	Station NR (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	5.3E-11	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	4.9E-10	5.3E-10	mg/kg-day	1.3E-05	mg/kg-day	4.1E-05
				Arsenic	5E+01	ug/L	1.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.0E-08	1.3E-07	mg/kg-day	3.0E-04	mg/kg-day	4.5E-04
				Cadmium	4E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	1.2E-09	mg/kg-day	2.5E-05	mg/kg-day	5.0E-05
				Chromium VI	6E+01	ug/L	3.4E-08	mg/kg-day	N/A	N/A	N/A	3.4E-07	mg/kg-day	7.5E-05	mg/kg-day	4.6E-03
				Lead												
				Manganese	6E+02	ug/L	1.7E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	2.8E-03	mg/kg-day	6.0E-04
				Mercury	6E-01	ug/L	1.8E-10	mg/kg-day	N/A	N/A	N/A	1.8E-09	mg/kg-day	2.1E-05	mg/kg-day	8.4E-05
			Exp. Route Total								2E-08					6E-03
		Exposure Point Total									2E-08					6E-03
		Station 14 (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	5.3E-11	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	4.9E-10	5.3E-10	mg/kg-day	1.3E-05	mg/kg-day	4.1E-05
				Arsenic	5E+01	ug/L	1.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.0E-08	1.3E-07	mg/kg-day	3.0E-04	mg/kg-day	4.5E-04
				Cadmium	4E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	1.2E-09	mg/kg-day	2.5E-05	mg/kg-day	5.0E-05
				Chromium VI	6E+01	ug/L	3.4E-08	mg/kg-day	N/A	N/A	N/A	3.4E-07	mg/kg-day	7.5E-05	mg/kg-day	4.6E-03
				Lead												
				Manganese	6E+02	ug/L	1.7E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	2.8E-03	mg/kg-day	6.0E-04
				Mercury	6E-01	ug/L	1.8E-10	mg/kg-day	N/A	N/A	N/A	1.8E-09	mg/kg-day	2.1E-05	mg/kg-day	8.4E-05
			Exp. Route Total								2E-08					6E-03
		Exposure Point Total									2E-08					6E-03
		Station 22/TT-22 (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	5.3E-11	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	4.9E-10	5.3E-10	mg/kg-day	1.3E-05	mg/kg-day	4.1E-05
				Arsenic	5E+01	ug/L	1.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.0E-08	1.3E-07	mg/kg-day	3.0E-04	mg/kg-day	4.5E-04
				Cadmium	4E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	1.2E-09	mg/kg-day	2.5E-05	mg/kg-day	5.0E-05
				Chromium VI	6E+01	ug/L	3.4E-08	mg/kg-day	N/A	N/A	N/A	3.4E-07	mg/kg-day	7.5E-05	mg/kg-day	4.6E-03
				Lead												
				Manganese	6E+02	ug/L	1.7E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	2.8E-03	mg/kg-day	6.0E-04
				Mercury	8E-01	ug/L	1.8E-10	mg/kg-day	N/A	N/A	N/A	1.8E-09	mg/kg-day	2.1E-05	mg/kg-day	8.4E-05
			Exp. Route Total								2E-08					6E-03
		Exposure Point Total									2E-08					6E-03

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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 (cont.)	Surface Water (cont.)	Station 13/TT-27 (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	5.3E-11	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	4.9E-10	5.3E-10	mg/kg-day	1.3E-05	mg/kg-day	4.1E-05
				Arsenic	5E+01	ug/L	1.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.0E-08	1.3E-07	mg/kg-day	3.0E-04	mg/kg-day	4.5E-04
				Cadmium	4E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	1.2E-09	mg/kg-day	2.5E-05	mg/kg-day	5.0E-05
				Chromium VI	6E+01	ug/L	3.4E-08	mg/kg-day	N/A	N/A	N/A	3.4E-07	mg/kg-day	7.5E-05	mg/kg-day	4.6E-03
				Lead												
				Manganese	6E+02	ug/L	1.7E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	2.8E-03	mg/kg-day	6.0E-04
				Mercury	6E-01	ug/L	1.8E-10	mg/kg-day	N/A	N/A	N/A	1.8E-09	mg/kg-day	2.1E-05	mg/kg-day	8.4E-05
			Exp. Route Total								2E-08					6E-03
		Exposure Point Total									2E-08					6E-03
		Station WH (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	5.3E-11	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	4.9E-10	5.3E-10	mg/kg-day	1.3E-05	mg/kg-day	4.1E-05
				Arsenic	5E+01	ug/L	1.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.0E-08	1.3E-07	mg/kg-day	3.0E-04	mg/kg-day	4.5E-04
				Cadmium	4E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	1.2E-09	mg/kg-day	2.5E-05	mg/kg-day	5.0E-05
				Chromium VI	6E+01	ug/L	3.4E-08	mg/kg-day	N/A	N/A	N/A	3.4E-07	mg/kg-day	7.5E-05	mg/kg-day	4.6E-03
				Lead												
				Manganese	6E+02	ug/L	1.7E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	2.8E-03	mg/kg-day	6.0E-04
				Mercury	6E-01	ug/L	1.8E-10	mg/kg-day	N/A	N/A	N/A	1.8E-09	mg/kg-day	2.1E-05	mg/kg-day	8.4E-05
			Exp. Route Total								2E-08					6E-03
		Exposure Point Total									2E-08					6E-03
		Station NT-1 (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	5.3E-11	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	4.9E-10	5.3E-10	mg/kg-day	1.3E-05	mg/kg-day	4.1E-05
				Arsenic	5E+01	ug/L	1.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.0E-08	1.3E-07	mg/kg-day	3.0E-04	mg/kg-day	4.5E-04
				Cadmium	4E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	1.2E-09	mg/kg-day	2.5E-05	mg/kg-day	5.0E-05
				Chromium VI	6E+01	ug/L	3.4E-08	mg/kg-day	N/A	N/A	N/A	3.4E-07	mg/kg-day	7.5E-05	mg/kg-day	4.6E-03
				Lead												
				Manganese	6E+02	ug/L	1.7E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	2.8E-03	mg/kg-day	6.0E-04
				Mercury	6E-01	ug/L	1.8E-10	mg/kg-day	N/A	N/A	N/A	1.8E-09	mg/kg-day	2.1E-05	mg/kg-day	8.4E-05
			Exp. Route Total								2E-08					6E-03
		Exposure Point Total									2E-08					6E-03

TABLE 3-7.2.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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 (cont.)	Surface Water (cont.)	Station NT-2 (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	5.3E-11	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	4.9E-10	5.3E-10	mg/kg-day	1.3E-05	mg/kg-day	4.1E-05
				Arsenic	5E+01	ug/L	1.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.0E-08	1.3E-07	mg/kg-day	3.0E-04	mg/kg-day	4.5E-04
				Cadmium	4E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	1.2E-09	mg/kg-day	2.5E-05	mg/kg-day	5.0E-05
				Chromium VI	6E+01	ug/L	3.4E-08	mg/kg-day	N/A	N/A	N/A	3.4E-07	mg/kg-day	7.5E-05	mg/kg-day	4.6E-03
				Lead												
				Manganese	6E+02	ug/L	1.7E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	2.8E-03	mg/kg-day	6.0E-04
				Mercury	6E-01	ug/L	1.8E-10	mg/kg-day	N/A	N/A	N/A	1.8E-09	mg/kg-day	2.1E-05	mg/kg-day	8.4E-05
			Exp. Route Total								2E-08					6E-03
		Exposure Point Total									2E-08					6E-03
		Station NT-3 (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	5.3E-11	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	4.9E-10	5.3E-10	mg/kg-day	1.3E-05	mg/kg-day	4.1E-05
				Arsenic	5E+01	ug/L	1.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.0E-08	1.3E-07	mg/kg-day	3.0E-04	mg/kg-day	4.5E-04
				Cadmium	4E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	1.2E-09	mg/kg-day	2.5E-05	mg/kg-day	5.0E-05
				Chromium VI	6E+01	ug/L	3.4E-08	mg/kg-day	N/A	N/A	N/A	3.4E-07	mg/kg-day	7.5E-05	mg/kg-day	4.6E-03
				Lead												
				Manganese	6E+02	ug/L	1.7E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	2.8E-03	mg/kg-day	6.0E-04
				Mercury	6E-01	ug/L	1.8E-10	mg/kg-day	N/A	N/A	N/A	1.8E-09	mg/kg-day	2.1E-05	mg/kg-day	8.4E-05
			Exp. Route Total								2E-08					6E-03
		Exposure Point Total									2E-08					6E-03
		Station WG (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	5.3E-11	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	4.9E-10	5.3E-10	mg/kg-day	1.3E-05	mg/kg-day	4.1E-05
				Arsenic	5E+01	ug/L	1.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.0E-08	1.3E-07	mg/kg-day	3.0E-04	mg/kg-day	4.5E-04
				Cadmium	4E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	1.2E-09	mg/kg-day	2.5E-05	mg/kg-day	5.0E-05
				Chromium VI	6E+01	ug/L	3.4E-08	mg/kg-day	N/A	N/A	N/A	3.4E-07	mg/kg-day	7.5E-05	mg/kg-day	4.6E-03
				Lead												
				Manganese	6E+02	ug/L	1.7E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	2.8E-03	mg/kg-day	6.0E-04
				Mercury	6E-01	ug/L	1.8E-10	mg/kg-day	N/A	N/A	N/A	1.8E-09	mg/kg-day	2.1E-05	mg/kg-day	8.4E-05
			Exp. Route Total								2E-08					6E-03
		Exposure Point Total									2E-08					6E-03

TABLE 3-7.2.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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 (cont.)	Surface Water (cont.)	Station WW (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	5.3E-11	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	4.9E-10	5.3E-10	mg/kg-day	1.3E-05	mg/kg-day	4.1E-05
				Arsenic	5E+01	ug/L	1.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.0E-08	1.3E-07	mg/kg-day	3.0E-04	mg/kg-day	4.5E-04
				Cadmium	4E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	1.2E-09	mg/kg-day	2.5E-05	mg/kg-day	5.0E-05
				Chromium VI	6E+01	ug/L	3.4E-08	mg/kg-day	N/A	N/A	N/A	3.4E-07	mg/kg-day	7.5E-05	mg/kg-day	4.6E-03
				Lead												
				Manganese	6E+02	ug/L	1.7E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	2.8E-03	mg/kg-day	6.0E-04
				Mercury	6E-01	ug/L	1.8E-10	mg/kg-day	N/A	N/A	N/A	1.8E-09	mg/kg-day	2.1E-05	mg/kg-day	8.4E-05
			Exp. Route Total								2E-08					6E-03
		Exposure Point Total									2E-08					6E-03
		Station JY (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	5.3E-11	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	4.9E-10	5.3E-10	mg/kg-day	1.3E-05	mg/kg-day	4.1E-05
				Arsenic	5E+01	ug/L	1.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.0E-08	1.3E-07	mg/kg-day	3.0E-04	mg/kg-day	4.5E-04
				Cadmium	4E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	1.2E-09	mg/kg-day	2.5E-05	mg/kg-day	5.0E-05
				Chromium VI	6E+01	ug/L	3.4E-08	mg/kg-day	N/A	N/A	N/A	3.4E-07	mg/kg-day	7.5E-05	mg/kg-day	4.6E-03
				Lead												
				Manganese	6E+02	ug/L	1.7E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	2.8E-03	mg/kg-day	6.0E-04
				Mercury	6E-01	ug/L	1.8E-10	mg/kg-day	N/A	N/A	N/A	1.8E-09	mg/kg-day	2.1E-05	mg/kg-day	8.4E-05
			Exp. Route Total								2E-08					6E-03
		Exposure Point Total									2E-08					6E-03
		Station WS/WSS (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	1.6E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	1.5E-09	1.6E-09	mg/kg-day	1.3E-05	mg/kg-day	1.2E-04
				Arsenic	5E+01	ug/L	4.0E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.0E-08	4.0E-07	mg/kg-day	3.0E-04	mg/kg-day	1.3E-03
				Cadmium	4E-01	ug/L	3.7E-10	mg/kg-day	N/A	N/A	N/A	3.7E-09	mg/kg-day	2.5E-05	mg/kg-day	1.5E-04
				Chromium VI	6E+01	ug/L	1.0E-07	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	7.5E-05	mg/kg-day	1.4E-02
				Lead												
				Manganese	6E+02	ug/L	5.0E-07	mg/kg-day	N/A	N/A	N/A	5.0E-06	mg/kg-day	2.8E-03	mg/kg-day	1.8E-03
				Mercury	6E-01	ug/L	5.3E-10	mg/kg-day	N/A	N/A	N/A	5.3E-09	mg/kg-day	2.1E-05	mg/kg-day	2.5E-04
			Exp. Route Total								6E-08					2E-02
		Exposure Point Total									6E-08					2E-02

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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 (cont.)	Surface Water (cont.)	Station TT-30 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	2.1E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	8.4E-09	2.1E-07	mg/kg-day	3.0E-04	mg/kg-day	7.0E-04
				Arsenic	2E+01	ug/L	4.5E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.8E-09	4.5E-08	mg/kg-day	3.0E-04	mg/kg-day	1.5E-04
				Cadmium	2E-01	ug/L	6.7E-11	mg/kg-day	N/A	N/A	N/A	6.7E-10	mg/kg-day	2.5E-05	mg/kg-day	2.7E-05
				Chromium VI	8E+00	ug/L	4.8E-09	mg/kg-day	N/A	N/A	N/A	4.8E-08	mg/kg-day	7.5E-05	mg/kg-day	6.3E-04
				Lead												
				Manganese	7E+02	ug/L	2.1E-07	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	2.8E-03	mg/kg-day	7.4E-04
				Mercury	1E-01	ug/L	3.6E-11	mg/kg-day	N/A	N/A	N/A	3.6E-10	mg/kg-day	2.1E-05	mg/kg-day	1.7E-05
			Exp. Route Total								2E-08					2E-03
		Exposure Point Total									2E-08					2E-03
		Station TT-31 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	2.1E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	8.4E-09	2.1E-07	mg/kg-day	3.0E-04	mg/kg-day	7.0E-04
				Arsenic	2E+01	ug/L	4.5E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.8E-09	4.5E-08	mg/kg-day	3.0E-04	mg/kg-day	1.5E-04
				Cadmium	2E-01	ug/L	6.7E-11	mg/kg-day	N/A	N/A	N/A	6.7E-10	mg/kg-day	2.5E-05	mg/kg-day	2.7E-05
				Chromium VI	8E+00	ug/L	4.8E-09	mg/kg-day	N/A	N/A	N/A	4.8E-08	mg/kg-day	7.5E-05	mg/kg-day	6.3E-04
				Lead												
				Manganese	7E+02	ug/L	2.1E-07	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	2.8E-03	mg/kg-day	7.4E-04
				Mercury	1E-01	ug/L	3.6E-11	mg/kg-day	N/A	N/A	N/A	3.6E-10	mg/kg-day	2.1E-05	mg/kg-day	1.7E-05
			Exp. Route Total								2E-08					2E-03
		Exposure Point Total									2E-08					2E-03
		Station CB-01 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	6.3E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	2.5E-08	6.3E-07	mg/kg-day	3.0E-04	mg/kg-day	2.1E-03
				Arsenic	2E+01	ug/L	1.4E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.0E-08	1.4E-07	mg/kg-day	3.0E-04	mg/kg-day	4.5E-04
				Cadmium	2E-01	ug/L	2.0E-10	mg/kg-day	N/A	N/A	N/A	2.0E-09	mg/kg-day	2.5E-05	mg/kg-day	8.0E-05
				Chromium VI	8E+00	ug/L	1.4E-08	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	7.5E-05	mg/kg-day	1.9E-03
				Lead												
				Manganese	7E+02	ug/L	6.2E-07	mg/kg-day	N/A	N/A	N/A	6.2E-06	mg/kg-day	2.8E-03	mg/kg-day	2.2E-03
				Mercury	1E-01	ug/L	1.1E-10	mg/kg-day	N/A	N/A	N/A	1.1E-09	mg/kg-day	2.1E-05	mg/kg-day	5.1E-05
			Exp. Route Total								5E-08					7E-03
		Exposure Point Total									5E-08					7E-03

TABLE 3-7.2.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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 (cont.)	Surface Water (cont.)	Station CB-02 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	6.3E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	2.5E-08	6.3E-07	mg/kg-day	3.0E-04	mg/kg-day	2.1E-03
				Arsenic	2E+01	ug/L	1.4E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.0E-08	1.4E-07	mg/kg-day	3.0E-04	mg/kg-day	4.5E-04
				Cadmium	2E-01	ug/L	2.0E-10	mg/kg-day	N/A	N/A	N/A	2.0E-09	mg/kg-day	2.5E-05	mg/kg-day	8.0E-05
				Chromium VI	8E+00	ug/L	1.4E-08	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	7.5E-05	mg/kg-day	1.9E-03
				Lead												
				Manganese	7E+02	ug/L	6.2E-07	mg/kg-day	N/A	N/A	N/A	6.2E-06	mg/kg-day	2.8E-03	mg/kg-day	2.2E-03
				Mercury	1E-01	ug/L	1.1E-10	mg/kg-day	N/A	N/A	N/A	1.1E-09	mg/kg-day	2.1E-05	mg/kg-day	5.1E-05
			Exp. Route Total								5E-08					7E-03
		Exposure Point Total									5E-08					7E-03
		Station CB-03 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	6.3E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	2.5E-08	6.3E-07	mg/kg-day	3.0E-04	mg/kg-day	2.1E-03
				Arsenic	2E+01	ug/L	1.4E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.0E-08	1.4E-07	mg/kg-day	3.0E-04	mg/kg-day	4.5E-04
				Cadmium	2E-01	ug/L	2.0E-10	mg/kg-day	N/A	N/A	N/A	2.0E-09	mg/kg-day	2.5E-05	mg/kg-day	8.0E-05
				Chromium VI	8E+00	ug/L	1.4E-08	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	7.5E-05	mg/kg-day	1.9E-03
				Lead												
				Manganese	7E+02	ug/L	6.2E-07	mg/kg-day	N/A	N/A	N/A	6.2E-06	mg/kg-day	2.8E-03	mg/kg-day	2.2E-03
				Mercury	1E-01	ug/L	1.1E-10	mg/kg-day	N/A	N/A	N/A	1.1E-09	mg/kg-day	2.1E-05	mg/kg-day	5.1E-05
			Exp. Route Total								5E-08					7E-03
		Exposure Point Total									5E-08					7E-03
		Station CB-04 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	6.3E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	2.5E-08	6.3E-07	mg/kg-day	3.0E-04	mg/kg-day	2.1E-03
				Arsenic	2E+01	ug/L	1.4E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.0E-08	1.4E-07	mg/kg-day	3.0E-04	mg/kg-day	4.5E-04
				Cadmium	2E-01	ug/L	2.0E-10	mg/kg-day	N/A	N/A	N/A	2.0E-09	mg/kg-day	2.5E-05	mg/kg-day	8.0E-05
				Chromium VI	8E+00	ug/L	1.4E-08	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	7.5E-05	mg/kg-day	1.9E-03
				Lead												
				Manganese	7E+02	ug/L	6.2E-07	mg/kg-day	N/A	N/A	N/A	6.2E-06	mg/kg-day	2.8E-03	mg/kg-day	2.2E-03
				Mercury	1E-01	ug/L	1.1E-10	mg/kg-day	N/A	N/A	N/A	1.1E-09	mg/kg-day	2.1E-05	mg/kg-day	5.1E-05
			Exp. Route Total								5E-08					7E-03
		Exposure Point Total									5E-08					7E-03

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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 (cont.)	Surface Water (cont.)	Station CB-06 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	6.3E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	2.5E-08	6.3E-07	mg/kg-day	3.0E-04	mg/kg-day	2.1E-03
				Arsenic	2E+01	ug/L	1.4E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.0E-08	1.4E-07	mg/kg-day	3.0E-04	mg/kg-day	4.5E-04
				Cadmium	2E-01	ug/L	2.0E-10	mg/kg-day	N/A	N/A	N/A	2.0E-09	mg/kg-day	2.5E-05	mg/kg-day	8.0E-05
				Chromium VI	8E+00	ug/L	1.4E-08	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	7.5E-05	mg/kg-day	1.9E-03
				Lead												
				Manganese	7E+02	ug/L	6.2E-07	mg/kg-day	N/A	N/A	N/A	6.2E-06	mg/kg-day	2.8E-03	mg/kg-day	2.2E-03
				Mercury	1E-01	ug/L	1.1E-10	mg/kg-day	N/A	N/A	N/A	1.1E-09	mg/kg-day	2.1E-05	mg/kg-day	5.1E-05
			Exp. Route Total								5E-08					7E-03
		Exposure Point Total									5E-08					7E-03
		Station CB-07 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	2.1E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	8.4E-09	2.1E-07	mg/kg-day	3.0E-04	mg/kg-day	7.0E-04
				Arsenic	2E+01	ug/L	4.5E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.8E-09	4.5E-08	mg/kg-day	3.0E-04	mg/kg-day	1.5E-04
				Cadmium	2E-01	ug/L	6.7E-11	mg/kg-day	N/A	N/A	N/A	6.7E-10	mg/kg-day	2.5E-05	mg/kg-day	2.7E-05
				Chromium VI	8E+00	ug/L	4.8E-09	mg/kg-day	N/A	N/A	N/A	4.8E-08	mg/kg-day	7.5E-05	mg/kg-day	6.3E-04
				Lead												
				Manganese	7E+02	ug/L	2.1E-07	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	2.8E-03	mg/kg-day	7.4E-04
				Mercury	1E-01	ug/L	3.6E-11	mg/kg-day	N/A	N/A	N/A	3.6E-10	mg/kg-day	2.1E-05	mg/kg-day	1.7E-05
			Exp. Route Total								2E-08					2E-03
		Exposure Point Total									2E-08					2E-03
		Station 16/TT-33 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	2.1E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	8.4E-09	2.1E-07	mg/kg-day	3.0E-04	mg/kg-day	7.0E-04
				Arsenic	2E+01	ug/L	4.5E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.8E-09	4.5E-08	mg/kg-day	3.0E-04	mg/kg-day	1.5E-04
				Cadmium	2E-01	ug/L	6.7E-11	mg/kg-day	N/A	N/A	N/A	6.7E-10	mg/kg-day	2.5E-05	mg/kg-day	2.7E-05
				Chromium VI	8E+00	ug/L	4.8E-09	mg/kg-day	N/A	N/A	N/A	4.8E-08	mg/kg-day	7.5E-05	mg/kg-day	6.3E-04
				Lead												
				Manganese	7E+02	ug/L	2.1E-07	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	2.8E-03	mg/kg-day	7.4E-04
				Mercury	1E-01	ug/L	3.6E-11	mg/kg-day	N/A	N/A	N/A	3.6E-10	mg/kg-day	2.1E-05	mg/kg-day	1.7E-05
			Exp. Route Total								2E-08					2E-03
		Exposure Point Total									2E-08					2E-03

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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 (cont.)	Surface Water (cont.)	Station 09 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	2.1E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	8.4E-09	2.1E-07	mg/kg-day	3.0E-04	mg/kg-day	7.0E-04
				Arsenic	2E+01	ug/L	4.5E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.8E-09	4.5E-08	mg/kg-day	3.0E-04	mg/kg-day	1.5E-04
				Cadmium	2E-01	ug/L	6.7E-11	mg/kg-day	N/A	N/A	N/A	6.7E-10	mg/kg-day	2.5E-05	mg/kg-day	2.7E-05
				Chromium VI	8E+00	ug/L	4.8E-09	mg/kg-day	N/A	N/A	N/A	4.8E-08	mg/kg-day	7.5E-05	mg/kg-day	6.3E-04
				Lead												
				Manganese	7E+02	ug/L	2.1E-07	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	2.8E-03	mg/kg-day	7.4E-04
				Mercury	1E-01	ug/L	3.6E-11	mg/kg-day	N/A	N/A	N/A	3.6E-10	mg/kg-day	2.1E-05	mg/kg-day	1.7E-05
			Exp. Route Total								2E-08					2E-03
		Exposure Point Total									2E-08					2E-03
		Station DA (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	2.1E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	8.4E-09	2.1E-07	mg/kg-day	3.0E-04	mg/kg-day	7.0E-04
				Arsenic	2E+01	ug/L	4.5E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.8E-09	4.5E-08	mg/kg-day	3.0E-04	mg/kg-day	1.5E-04
				Cadmium	2E-01	ug/L	6.7E-11	mg/kg-day	N/A	N/A	N/A	6.7E-10	mg/kg-day	2.5E-05	mg/kg-day	2.7E-05
				Chromium VI	8E+00	ug/L	4.8E-09	mg/kg-day	N/A	N/A	N/A	4.8E-08	mg/kg-day	7.5E-05	mg/kg-day	6.3E-04
				Lead												
				Manganese	7E+02	ug/L	2.1E-07	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	2.8E-03	mg/kg-day	7.4E-04
				Mercury	1E-01	ug/L	3.6E-11	mg/kg-day	N/A	N/A	N/A	3.6E-10	mg/kg-day	2.1E-05	mg/kg-day	1.7E-05
			Exp. Route Total								2E-08					2E-03
		Exposure Point Total									2E-08					2E-03
		Station AM (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	2.1E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	8.4E-09	2.1E-07	mg/kg-day	3.0E-04	mg/kg-day	7.0E-04
				Arsenic	2E+01	ug/L	4.5E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.8E-09	4.5E-08	mg/kg-day	3.0E-04	mg/kg-day	1.5E-04
				Cadmium	2E-01	ug/L	6.7E-11	mg/kg-day	N/A	N/A	N/A	6.7E-10	mg/kg-day	2.5E-05	mg/kg-day	2.7E-05
				Chromium VI	8E+00	ug/L	4.8E-09	mg/kg-day	N/A	N/A	N/A	4.8E-08	mg/kg-day	7.5E-05	mg/kg-day	6.3E-04
				Lead												
				Manganese	7E+02	ug/L	2.1E-07	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	2.8E-03	mg/kg-day	7.4E-04
				Mercury	1E-01	ug/L	3.6E-11	mg/kg-day	N/A	N/A	N/A	3.6E-10	mg/kg-day	2.1E-05	mg/kg-day	1.7E-05
			Exp. Route Total								2E-08					2E-03
		Exposure Point Total									2E-08					2E-03
		Station KF (Lower Reach 2)	Dermal	Arsenic	7E+00	ug/L	2.0E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.0E-09	2.0E-08	mg/kg-day	3.0E-04	mg/kg-day	6.6E-05
				Chromium VI	2E+00	ug/L	1.3E-09	mg/kg-day	N/A	N/A	N/A	1.3E-08	mg/kg-day	7.5E-05	mg/kg-day	1.7E-04
				Manganese	4E+02	ug/L	1.0E-07	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	2.8E-03	mg/kg-day	3.7E-04
			Exp. Route Total								3E-09					6E-04
		Exposure Point Total									3E-09					6E-04

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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 (cont.)	Surface Water (cont.)	Station 08 (Lower Reach 2)	Dermal	Arsenic	7E+00	ug/L	2.0E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.0E-09	2.0E-08	mg/kg-day	3.0E-04	mg/kg-day	6.6E-05
				Chromium VI	2E+00	ug/L	1.3E-09	mg/kg-day	N/A	N/A	N/A	1.3E-08	mg/kg-day	7.5E-05	mg/kg-day	1.7E-04
				Manganese	4E+02	ug/L	1.0E-07	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	2.8E-03	mg/kg-day	3.7E-04
			Exp. Route Total								3E-09					6E-04
		Exposure Point Total									3E-09					6E-04
		Station 07/DP (Reach 3)	Dermal	Chromium VI	3E+00	ug/L	1.8E-09	mg/kg-day	N/A	N/A	N/A	1.8E-08	mg/kg-day	7.5E-05	mg/kg-day	2.4E-04
				Lead												
				Manganese	6E+02	ug/L	1.7E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	2.8E-03	mg/kg-day	6.1E-04
				Mercury	2E-01	ug/L	6.4E-11	mg/kg-day	N/A	N/A	N/A	6.4E-10	mg/kg-day	2.1E-05	mg/kg-day	3.0E-05
			Exp. Route Total								N/A					9E-04
		Exposure Point Total									N/A					9E-04
		Station LP (Reach 3)	Dermal	Chromium VI	3E+00	ug/L	1.8E-09	mg/kg-day	N/A	N/A	N/A	1.8E-08	mg/kg-day	7.5E-05	mg/kg-day	2.4E-04
				Lead												
				Manganese	6E+02	ug/L	1.7E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	2.8E-03	mg/kg-day	6.1E-04
				Mercury	2E-01	ug/L	6.4E-11	mg/kg-day	N/A	N/A	N/A	6.4E-10	mg/kg-day	2.1E-05	mg/kg-day	3.0E-05
			Exp. Route Total								N/A					9E-04
		Exposure Point Total									N/A					9E-04
		Station AS (Reach 3)	Dermal	Chromium VI	3E+00	ug/L	1.8E-09	mg/kg-day	N/A	N/A	N/A	1.8E-08	mg/kg-day	7.5E-05	mg/kg-day	2.4E-04
				Lead												
				Manganese	6E+02	ug/L	1.7E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	2.8E-03	mg/kg-day	6.1E-04
				Mercury	2E-01	ug/L	6.4E-11	mg/kg-day	N/A	N/A	N/A	6.4E-10	mg/kg-day	2.1E-05	mg/kg-day	3.0E-05
			Exp. Route Total								N/A					9E-04
		Exposure Point Total									N/A					9E-04
		Station 06 (Reach 4)	Dermal	Chromium VI	4E+00	ug/L	2.5E-09	mg/kg-day	N/A	N/A	N/A	2.5E-08	mg/kg-day	7.5E-05	mg/kg-day	3.3E-04
				Lead												
				Manganese	5E+02	ug/L	1.5E-07	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								N/A					9E-04
		Exposure Point Total									N/A					9E-04

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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 (cont.)	Surface Water (cont.)	Station 05 (Reach 5)	Dermal	Chloroform	1E+00	ug/L	5.4E-09	mg/kg-day	N/A	N/A	N/A	5.4E-08	mg/kg-day	1.0E-02	mg/kg-day	5.4E-06
				Tetrachloroethene	2E+00	ug/L	7.1E-08	mg/kg-day	5.4E-01	(mg/kg-day) $^{-1}$	3.8E-08	7.1E-07	mg/kg-day	1.0E-02	mg/kg-day	7.1E-05
				Chromium VI	9E-01	ug/L	4.9E-10	mg/kg-day	N/A	N/A	N/A	4.9E-09	mg/kg-day	7.5E-05	mg/kg-day	6.6E-05
				Manganese	3E+02	ug/L	9.3E-08	mg/kg-day	N/A	N/A	N/A	9.3E-07	mg/kg-day	2.8E-03	mg/kg-day	3.3E-04
			Exp. Route Total								4E-08					5E-04
		Exposure Point Total									4E-08					5E-04
		Station 04 (Upper Reach 6)	Dermal	Arsenic	4E+00	ug/L	1.1E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.6E-09	1.1E-08	mg/kg-day	3.0E-04	mg/kg-day	3.6E-05
				Chromium VI	2E+00	ug/L	1.0E-09	mg/kg-day	N/A	N/A	N/A	1.0E-08	mg/kg-day	7.5E-05	mg/kg-day	1.3E-04
				Lead												
				Manganese	2E+02	ug/L	6.1E-08	mg/kg-day	N/A	N/A	N/A	6.1E-07	mg/kg-day	2.8E-03	mg/kg-day	2.2E-04
				Mercury	7E-02	ug/L	2.0E-11	mg/kg-day	N/A	N/A	N/A	2.0E-10	mg/kg-day	2.1E-05	mg/kg-day	9.5E-06
			Exp. Route Total								2E-09					4E-04
		Exposure Point Total									2E-09					4E-04
		Station 03 (Upper Reach 6)	Dermal	Arsenic	4E+00	ug/L	1.1E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.6E-09	1.1E-08	mg/kg-day	3.0E-04	mg/kg-day	3.6E-05
				Chromium VI	2E+00	ug/L	1.0E-09	mg/kg-day	N/A	N/A	N/A	1.0E-08	mg/kg-day	7.5E-05	mg/kg-day	1.3E-04
				Lead												
				Manganese	2E+02	ug/L	6.1E-08	mg/kg-day	N/A	N/A	N/A	6.1E-07	mg/kg-day	2.8E-03	mg/kg-day	2.2E-04
				Mercury	7E-02	ug/L	2.0E-11	mg/kg-day	N/A	N/A	N/A	2.0E-10	mg/kg-day	2.1E-05	mg/kg-day	9.5E-06
			Exp. Route Total								2E-09					4E-04
		Exposure Point Total									2E-09					4E-04
		Station 02 (Upper Reach 6)	Dermal	Arsenic	4E+00	ug/L	1.1E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.6E-09	1.1E-08	mg/kg-day	3.0E-04	mg/kg-day	3.6E-05
				Chromium VI	2E+00	ug/L	1.0E-09	mg/kg-day	N/A	N/A	N/A	1.0E-08	mg/kg-day	7.5E-05	mg/kg-day	1.3E-04
				Lead												
				Manganese	2E+02	ug/L	6.1E-08	mg/kg-day	N/A	N/A	N/A	6.1E-07	mg/kg-day	2.8E-03	mg/kg-day	2.2E-04
				Mercury	7E-02	ug/L	2.0E-11	mg/kg-day	N/A	N/A	N/A	2.0E-10	mg/kg-day	2.1E-05	mg/kg-day	9.5E-06
			Exp. Route Total								2E-09					4E-04
		Exposure Point Total									2E-09					4E-04

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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 (cont.)	Surface Water (cont.)	Station 01 (Lower Reach 6)	Ingestion													
				Arsenic	3E+00	ug/L	1.5E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.3E-09	1.5E-08	mg/kg-day	3.0E-04	mg/kg-day	5.1E-05
				Chromium VI	2E+00	ug/L	7.3E-10	mg/kg-day	N/A	N/A	N/A	7.3E-09	mg/kg-day	3.0E-03	mg/kg-day	2.4E-06
				Lead												
				Manganese	7E+01	ug/L	3.5E-08	mg/kg-day	N/A	N/A	N/A	3.5E-07	mg/kg-day	7.0E-02	mg/kg-day	5.0E-06
				Mercury	4E-02	ug/L	2.0E-11	mg/kg-day	N/A	N/A	N/A	2.0E-10	mg/kg-day	3.0E-04	mg/kg-day	6.5E-07
			Exp. Route Total								2E-09					6E-05
			Dermal													
				Arsenic	3E+00	ug/L	5.5E-10	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	8.2E-10	5.5E-09	mg/kg-day	3.0E-04	mg/kg-day	1.8E-05
				Chromium VI	2E+00	ug/L	5.3E-10	mg/kg-day	N/A	N/A	N/A	5.3E-09	mg/kg-day	7.5E-05	mg/kg-day	7.0E-05
				Lead												
				Manganese	7E+01	ug/L	1.2E-08	mg/kg-day	N/A	N/A	N/A	1.2E-07	mg/kg-day	2.8E-03	mg/kg-day	4.5E-05
				Mercury	4E-02	ug/L	7.0E-12	mg/kg-day	N/A	N/A	N/A	7.0E-11	mg/kg-day	2.1E-05	mg/kg-day	3.4E-06
			Exp. Route Total								8E-10					1E-04
		Exposure Point Total									3E-09					2E-04
	Exposure Medium Total										N/A					N/A
Sediment	Sediment	Station NR	Ingestion													
				Arsenic	2E+02	mg/kg	5.5E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	4.2E-07	5.5E-06	mg/kg-day	5.9E-04	mg/kg-day	9.2E-03
				Barium	6E+01	mg/kg	1.4E-07	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	7.0E-02	mg/kg-day	2.0E-05
				Cadmium	2E+00	mg/kg	5.6E-09	mg/kg-day	N/A	N/A	N/A	5.6E-08	mg/kg-day	1.0E-03	mg/kg-day	5.6E-05
				Chromium III	3E+02	mg/kg	6.4E-07	mg/kg-day	N/A	N/A	N/A	6.4E-06	mg/kg-day	1.5E+00	mg/kg-day	4.3E-06
				Copper	3E+02	mg/kg	7.7E-07	mg/kg-day	N/A	N/A	N/A	7.7E-06	mg/kg-day	3.0E-02	mg/kg-day	2.6E-04
				Lead												
				Manganese	2E+02	mg/kg	6.3E-07	mg/kg-day	N/A	N/A	N/A	6.3E-06	mg/kg-day	7.0E-02	mg/kg-day	9.0E-05
				Mercury	4E+00	mg/kg	1.1E-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
				Nickel	1E+01	mg/kg	3.6E-08	mg/kg-day	N/A	N/A	N/A	3.6E-07	mg/kg-day	2.0E-02	mg/kg-day	1.8E-05
				Vanadium	3E+01	mg/kg	7.8E-08	mg/kg-day	N/A	N/A	N/A	7.8E-07	mg/kg-day	1.0E-03	mg/kg-day	7.8E-04
				Zinc	5E+02	mg/kg	1.2E-06	mg/kg-day	N/A	N/A	N/A	1.2E-05	mg/kg-day	3.0E-01	mg/kg-day	4.1E-05
			Exp. Route Total								4E-07					1E-02
			Dermal													
				Arsenic	2E+02	mg/kg	2.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.9E-07	2.6E-06	mg/kg-day	3.0E-04	mg/kg-day	8.7E-03
				Cadmium	2E+00	mg/kg	8.9E-10	mg/kg-day	N/A	N/A	N/A	8.9E-09	mg/kg-day	2.5E-05	mg/kg-day	3.6E-04
			Exp. Route Total								4E-07					9E-03
		Exposure Point Total									8E-07					2E-02

TABLE 3-7.2.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station 14	Ingestion													
				Benzo(a)anthracene	1E+00	mg/kg	2.5E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.8E-09	2.5E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	9E-01	mg/kg	2.3E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.7E-08	2.3E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	3.7E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.7E-09	3.7E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	2.8E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	2.0E-10	2.8E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E+00	mg/kg	3.8E-09	mg/kg-day	N/A	N/A	N/A	3.8E-08	mg/kg-day	2.0E-02	mg/kg-day	1.9E-06
				Antimony	9E-01	mg/kg	2.3E-09	mg/kg-day	N/A	N/A	N/A	2.3E-08	mg/kg-day	4.0E-04	mg/kg-day	5.8E-05
				Arsenic	6E+01	mg/kg	1.6E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.2E-07	1.6E-06	mg/kg-day	5.9E-04	mg/kg-day	2.6E-03
				Barium	2E+01	mg/kg	4.0E-08	mg/kg-day	N/A	N/A	N/A	4.0E-07	mg/kg-day	7.0E-02	mg/kg-day	5.8E-06
				Cadmium	6E-01	mg/kg	1.6E-09	mg/kg-day	N/A	N/A	N/A	1.6E-08	mg/kg-day	1.0E-03	mg/kg-day	1.6E-05
				Chromium III	1E+02	mg/kg	2.6E-07	mg/kg-day	N/A	N/A	N/A	2.6E-06	mg/kg-day	1.5E+00	mg/kg-day	1.8E-06
				Copper	6E+01	mg/kg	1.5E-07	mg/kg-day	N/A	N/A	N/A	1.5E-06	mg/kg-day	3.0E-02	mg/kg-day	4.8E-05
				Lead												
				Manganese	1E+02	mg/kg	3.4E-07	mg/kg-day	N/A	N/A	N/A	3.4E-06	mg/kg-day	7.0E-02	mg/kg-day	4.8E-05
				Mercury	6E-01	mg/kg	1.5E-09	mg/kg-day	N/A	N/A	N/A	1.5E-08	mg/kg-day	1.0E-04	mg/kg-day	1.5E-04
				Nickel	7E+00	mg/kg	1.9E-08	mg/kg-day	N/A	N/A	N/A	1.9E-07	mg/kg-day	2.0E-02	mg/kg-day	9.3E-06
				Thallium	5E-01	mg/kg	1.2E-09	mg/kg-day	N/A	N/A	N/A	1.2E-08	mg/kg-day	8.0E-05	mg/kg-day	1.6E-04
				Vanadium	1E+01	mg/kg	2.9E-08	mg/kg-day	N/A	N/A	N/A	2.9E-07	mg/kg-day	1.0E-03	mg/kg-day	2.9E-04
				Zinc	2E+02	mg/kg	5.6E-07	mg/kg-day	N/A	N/A	N/A	5.6E-06	mg/kg-day	3.0E-01	mg/kg-day	1.9E-05
			Exp. Route Total								1E-07					3E-03
			Dermal													
				Benzo(a)anthracene	1E+00	mg/kg	5.1E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.7E-09	5.1E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	9E-01	mg/kg	4.7E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.4E-08	4.7E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	7.6E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.5E-09	7.6E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	5.8E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	4.2E-10	5.8E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E+00	mg/kg	7.9E-09	mg/kg-day	N/A	N/A	N/A	7.9E-08	mg/kg-day	2.0E-02	mg/kg-day	4.0E-06
				Arsenic	6E+01	mg/kg	7.5E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.1E-07	7.5E-07	mg/kg-day	3.0E-04	mg/kg-day	2.5E-03
				Cadmium	6E-01	mg/kg	2.6E-10	mg/kg-day	N/A	N/A	N/A	2.6E-09	mg/kg-day	2.5E-05	mg/kg-day	1.0E-04
			Exp. Route Total								2E-07					3E-03
		Exposure Point Total									3E-07					6E-03

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station 22/TT-22	Ingestion													
				Tetrachloroethene	3E+00	mg/kg	7.0E-09	mg/kg-day	5.4E-01	(mg/kg-day) $^{-1}$	3.8E-09	7.0E-08	mg/kg-day	1.0E-02	mg/kg-day	7.0E-06
				Trichloroethene	7E-01	mg/kg	1.8E-09	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	7.1E-10	1.8E-08	mg/kg-day	3.0E-04	mg/kg-day	5.9E-05
				Benzo(a)anthracene	3E-01	mg/kg	7.6E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.6E-10	7.6E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	5.1E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.7E-09	5.1E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	4E-01	mg/kg	1.0E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	7.3E-10	1.0E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	4E-01	mg/kg	1.1E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	7.8E-11	1.1E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	4E-02	mg/kg	1.1E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	8.2E-10	1.1E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	2E-01	mg/kg	5.6E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.1E-10	5.6E-09	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	4E-01	mg/kg	1.0E-09	mg/kg-day	N/A	N/A	N/A	1.0E-08	mg/kg-day	2.0E-02	mg/kg-day	5.1E-07
				Aroclor 1260	3E-02	mg/kg	7.4E-11	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	7.4E-11	7.4E-10	mg/kg-day	2.0E-05	mg/kg-day	3.7E-05
				Antimony	7E+01	mg/kg	1.8E-07	mg/kg-day	N/A	N/A	N/A	1.8E-06	mg/kg-day	4.0E-04	mg/kg-day	4.4E-03
				Arsenic	8E+01	mg/kg	2.0E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.5E-07	2.0E-06	mg/kg-day	5.9E-04	mg/kg-day	3.3E-03
				Barium	5E+01	mg/kg	1.3E-07	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	7.0E-02	mg/kg-day	1.8E-05
				Cadmium	1E+00	mg/kg	3.6E-09	mg/kg-day	N/A	N/A	N/A	3.6E-08	mg/kg-day	1.0E-03	mg/kg-day	3.6E-05
				Chromium III	6E+01	mg/kg	1.7E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	1.5E+00	mg/kg-day	1.1E-06
				Copper	3E+01	mg/kg	7.5E-08	mg/kg-day	N/A	N/A	N/A	7.5E-07	mg/kg-day	3.0E-02	mg/kg-day	2.5E-05
				Lead												
				Manganese	1E+02	mg/kg	3.0E-07	mg/kg-day	N/A	N/A	N/A	3.0E-06	mg/kg-day	7.0E-02	mg/kg-day	4.2E-05
				Mercury	5E-01	mg/kg	1.2E-09	mg/kg-day	N/A	N/A	N/A	1.2E-08	mg/kg-day	1.0E-04	mg/kg-day	1.2E-04
				Nickel	1E+01	mg/kg	2.9E-08	mg/kg-day	N/A	N/A	N/A	2.9E-07	mg/kg-day	2.0E-02	mg/kg-day	1.4E-05
				Vanadium	4E+01	mg/kg	1.0E-07	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	1.0E-03	mg/kg-day	1.0E-03
				Zinc	1E+02	mg/kg	2.4E-07	mg/kg-day	N/A	N/A	N/A	2.4E-06	mg/kg-day	3.0E-01	mg/kg-day	8.1E-06
			Exp. Route Total								2E-07					9E-03
			Dermal													
				Benzo(a)anthracene	3E-01	mg/kg	1.6E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.2E-09	1.6E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	1.1E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	7.7E-09	1.1E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	4E-01	mg/kg	2.1E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.5E-09	2.1E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	4E-01	mg/kg	2.2E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.6E-10	2.2E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	4E-02	mg/kg	2.3E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.7E-09	2.3E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	2E-01	mg/kg	1.2E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	8.5E-10	1.2E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	4E-01	mg/kg	2.1E-09	mg/kg-day	N/A	N/A	N/A	2.1E-08	mg/kg-day	2.0E-02	mg/kg-day	1.1E-06
				Aroclor 1260	3E-02	mg/kg	1.6E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	1.6E-10	1.6E-09	mg/kg-day	2.0E-05	mg/kg-day	8.2E-05
				Arsenic	8E+01	mg/kg	9.4E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.4E-07	9.4E-07	mg/kg-day	3.0E-04	mg/kg-day	3.1E-03
				Cadmium	1E+00	mg/kg	5.8E-10	mg/kg-day	N/A	N/A	N/A	5.8E-09	mg/kg-day	2.5E-05	mg/kg-day	2.3E-04
			Exp. Route Total								2E-07					3E-03
		Exposure Point Total									3E-07					1E-02

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station 13/TT-27	Ingestion													
				Trichloroethene	2E-02	mg/kg	5.6E-11	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	2.2E-11	5.6E-10	mg/kg-day	3.0E-04	mg/kg-day	1.9E-06
				Benzo(a)anthracene	1E+00	mg/kg	3.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.4E-09	3.3E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	3.4E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.5E-08	3.4E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E+00	mg/kg	6.5E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.8E-09	6.5E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E+00	mg/kg	5.7E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	4.2E-10	5.7E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	8.0E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	5.8E-09	8.0E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	9E-01	mg/kg	2.2E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.6E-09	2.2E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E+00	mg/kg	4.3E-09	mg/kg-day	N/A	N/A	N/A	4.3E-08	mg/kg-day	2.0E-02	mg/kg-day	2.1E-06
				Aroclor 1254	2E-02	mg/kg	4.1E-11	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	4.1E-11	4.1E-10	mg/kg-day	2.0E-05	mg/kg-day	2.0E-05
				Aroclor 1260	2E-01	mg/kg	4.1E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	4.1E-10	4.1E-09	mg/kg-day	2.0E-05	mg/kg-day	2.1E-04
				Antimony	1E+01	mg/kg	3.3E-08	mg/kg-day	N/A	N/A	N/A	3.3E-07	mg/kg-day	4.0E-04	mg/kg-day	8.3E-04
				Arsenic	4E+03	mg/kg	9.2E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	7.1E-06	9.2E-05	mg/kg-day	5.9E-04	mg/kg-day	1.6E-01
				Barium	2E+02	mg/kg	6.1E-07	mg/kg-day	N/A	N/A	N/A	6.1E-06	mg/kg-day	7.0E-02	mg/kg-day	8.7E-05
				Cadmium	9E+00	mg/kg	2.4E-08	mg/kg-day	N/A	N/A	N/A	2.4E-07	mg/kg-day	1.0E-03	mg/kg-day	2.4E-04
				Chromium III	6E+02	mg/kg	1.4E-06	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	1.5E+00	mg/kg-day	9.6E-06
				Copper	2E+03	mg/kg	4.2E-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	8E+02	mg/kg	1.9E-06	mg/kg-day	N/A	N/A	N/A	1.9E-05	mg/kg-day	7.0E-02	mg/kg-day	2.8E-04
				Mercury	5E+00	mg/kg	1.3E-08	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	1.0E-04	mg/kg-day	1.3E-03
				Nickel	3E+01	mg/kg	8.2E-08	mg/kg-day	N/A	N/A	N/A	8.2E-07	mg/kg-day	2.0E-02	mg/kg-day	4.1E-05
				Thallium	1E+00	mg/kg	2.8E-09	mg/kg-day	N/A	N/A	N/A	2.8E-08	mg/kg-day	8.0E-05	mg/kg-day	3.5E-04
				Vanadium	9E+01	mg/kg	2.2E-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
				Zinc	2E+03	mg/kg	5.7E-06	mg/kg-day	N/A	N/A	N/A	5.7E-05	mg/kg-day	3.0E-01	mg/kg-day	1.9E-04
			Exp. Route Total								7E-06					2E-01
			Dermal													
				Benzo(a)anthracene	1E+00	mg/kg	6.8E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.9E-09	6.8E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	7.1E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	5.2E-08	7.1E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E+00	mg/kg	1.4E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.9E-09	1.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E+00	mg/kg	1.2E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	8.7E-10	1.2E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	1.7E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.2E-08	1.7E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	9E-01	mg/kg	4.6E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.4E-09	4.6E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E+00	mg/kg	8.9E-09	mg/kg-day	N/A	N/A	N/A	8.9E-08	mg/kg-day	2.0E-02	mg/kg-day	4.5E-06
				Aroclor 1254	2E-02	mg/kg	9.1E-11	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	9.1E-11	9.1E-10	mg/kg-day	2.0E-05	mg/kg-day	4.6E-05
				Aroclor 1260	2E-01	mg/kg	9.2E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	9.2E-10	9.2E-09	mg/kg-day	2.0E-05	mg/kg-day	4.6E-04
				Arsenic	4E+03	mg/kg	4.4E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.6E-06	4.4E-05	mg/kg-day	3.0E-04	mg/kg-day	1.5E-01
				Cadmium	9E+00	mg/kg	3.8E-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								7E-06					1E-01
		Exposure Point Total									1E-05					3E-01

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station WH	Ingestion													
				Trichloroethene	5E-02	mg/kg	1.3E-10	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	5.4E-11	1.3E-09	mg/kg-day	3.0E-04	mg/kg-day	4.5E-06
				Benzo(a)anthracene	4E-01	mg/kg	1.1E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	8.0E-10	1.1E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	2.5E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.9E-08	2.5E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	9E-01	mg/kg	2.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.7E-09	2.3E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	7E-01	mg/kg	1.8E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.3E-10	1.8E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	7.9E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	5.8E-09	7.9E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	5E-01	mg/kg	1.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.7E-10	1.3E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	4E-01	mg/kg	1.1E-09	mg/kg-day	N/A	N/A	N/A	1.1E-08	mg/kg-day	2.0E-02	mg/kg-day	5.5E-07
				Aroclor 1260	4E-02	mg/kg	1.0E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	1.0E-10	1.0E-09	mg/kg-day	2.0E-05	mg/kg-day	5.2E-05
				Antimony	3E+01	mg/kg	8.9E-08	mg/kg-day	N/A	N/A	N/A	8.9E-07	mg/kg-day	4.0E-04	mg/kg-day	2.2E-03
				Arsenic	2E+03	mg/kg	4.9E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.7E-06	4.9E-05	mg/kg-day	5.9E-04	mg/kg-day	8.2E-02
				Barium	9E+01	mg/kg	2.4E-07	mg/kg-day	N/A	N/A	N/A	2.4E-06	mg/kg-day	7.0E-02	mg/kg-day	3.4E-05
				Cadmium	1E+01	mg/kg	2.7E-08	mg/kg-day	N/A	N/A	N/A	2.7E-07	mg/kg-day	1.0E-03	mg/kg-day	2.7E-04
				Chromium III	1E+03	mg/kg	3.0E-06	mg/kg-day	N/A	N/A	N/A	3.0E-05	mg/kg-day	1.5E+00	mg/kg-day	2.0E-05
				Copper	1E+03	mg/kg	3.0E-06	mg/kg-day	N/A	N/A	N/A	3.0E-05	mg/kg-day	3.0E-02	mg/kg-day	1.0E-03
				Lead												
				Manganese	5E+02	mg/kg	1.3E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	7.0E-02	mg/kg-day	1.9E-04
				Mercury	3E+01	mg/kg	7.0E-08	mg/kg-day	N/A	N/A	N/A	7.0E-07	mg/kg-day	1.0E-04	mg/kg-day	7.0E-03
				Nickel	4E+01	mg/kg	1.0E-07	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	2.0E-02	mg/kg-day	5.2E-05
				Thallium	8E-01	mg/kg	2.0E-09	mg/kg-day	N/A	N/A	N/A	2.0E-08	mg/kg-day	8.0E-05	mg/kg-day	2.5E-04
				Vanadium	1E+02	mg/kg	2.5E-07	mg/kg-day	N/A	N/A	N/A	2.5E-06	mg/kg-day	1.0E-03	mg/kg-day	2.5E-03
				Zinc	2E+03	mg/kg	5.9E-06	mg/kg-day	N/A	N/A	N/A	5.9E-05	mg/kg-day	3.0E-01	mg/kg-day	2.0E-04
				Chromium VI	2E+00	mg/kg	3.9E-09	mg/kg-day	N/A	N/A	N/A	3.9E-08	mg/kg-day	3.0E-03	mg/kg-day	1.3E-05
			Exp. Route Total								4E-06					1E-01
			Dermal													
				Benzo(a)anthracene	4E-01	mg/kg	2.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.7E-09	2.3E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	5.3E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.9E-08	5.3E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	9E-01	mg/kg	4.8E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.5E-09	4.8E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	7E-01	mg/kg	3.6E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	2.7E-10	3.6E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	1.6E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.2E-08	1.6E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	5E-01	mg/kg	2.7E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.0E-09	2.7E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	4E-01	mg/kg	2.3E-09	mg/kg-day	N/A	N/A	N/A	2.3E-08	mg/kg-day	2.0E-02	mg/kg-day	1.1E-06
				Aroclor 1260	4E-02	mg/kg	2.3E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	2.3E-10	2.3E-09	mg/kg-day	2.0E-05	mg/kg-day	1.2E-04
				Arsenic	2E+03	mg/kg	2.3E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.5E-06	2.3E-05	mg/kg-day	3.0E-04	mg/kg-day	7.8E-02
				Cadmium	1E+01	mg/kg	4.4E-09	mg/kg-day	N/A	N/A	N/A	4.4E-08	mg/kg-day	2.5E-05	mg/kg-day	1.7E-03
			Exp. Route Total								4E-06					8E-02
		Exposure Point Total									7E-06					2E-01

TABLE 3-7.2.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station NT-1	Ingestion													
				Trichloroethene	5E-02	mg/kg	1.2E-10	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	4.8E-11	1.2E-09	mg/kg-day	3.0E-04	mg/kg-day	4.0E-06
				Benzo(a)anthracene	5E-01	mg/kg	1.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.4E-10	1.3E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	9E-01	mg/kg	2.2E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.6E-08	2.2E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	3.7E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.7E-09	3.7E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	6E-01	mg/kg	1.4E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.0E-10	1.4E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	2E-01	mg/kg	4.8E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.5E-09	4.8E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	mg/kg	8.0E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.9E-10	8.0E-09	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	3E-01	mg/kg	7.9E-10	mg/kg-day	N/A	N/A	N/A	7.9E-09	mg/kg-day	2.0E-02	mg/kg-day	3.9E-07
				Aroclor 1260	3E-02	mg/kg	7.2E-11	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	7.2E-11	7.2E-10	mg/kg-day	2.0E-05	mg/kg-day	3.6E-05
				Antimony	1E+01	mg/kg	3.7E-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	2E+03	mg/kg	6.3E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	4.9E-06	6.3E-05	mg/kg-day	5.9E-04	mg/kg-day	1.1E-01
				Barium	1E+02	mg/kg	2.7E-07	mg/kg-day	N/A	N/A	N/A	2.7E-06	mg/kg-day	7.0E-02	mg/kg-day	3.9E-05
				Cadmium	9E+00	mg/kg	2.2E-08	mg/kg-day	N/A	N/A	N/A	2.2E-07	mg/kg-day	1.0E-03	mg/kg-day	2.2E-04
				Chromium III	2E+03	mg/kg	3.9E-06	mg/kg-day	N/A	N/A	N/A	3.9E-05	mg/kg-day	1.5E+00	mg/kg-day	2.6E-05
				Copper	8E+02	mg/kg	2.1E-06	mg/kg-day	N/A	N/A	N/A	2.1E-05	mg/kg-day	3.0E-02	mg/kg-day	7.1E-04
				Lead												
				Manganese	1E+03	mg/kg	2.7E-06	mg/kg-day	N/A	N/A	N/A	2.7E-05	mg/kg-day	7.0E-02	mg/kg-day	3.9E-04
				Mercury	5E+00	mg/kg	1.3E-08	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	1.0E-04	mg/kg-day	1.3E-03
				Nickel	4E+01	mg/kg	1.0E-07	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	2.0E-02	mg/kg-day	5.2E-05
				Thallium	1E+01	mg/kg	2.8E-08	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	7E+01	mg/kg	1.8E-07	mg/kg-day	N/A	N/A	N/A	1.8E-06	mg/kg-day	1.0E-03	mg/kg-day	1.8E-03
				Zinc	2E+03	mg/kg	4.2E-06	mg/kg-day	N/A	N/A	N/A	4.2E-05	mg/kg-day	3.0E-01	mg/kg-day	1.4E-04
				Chromium VI	2E+00	mg/kg	5.1E-09	mg/kg-day	N/A	N/A	N/A	5.1E-08	mg/kg-day	3.0E-03	mg/kg-day	1.7E-05
			Exp. Route Total								5E-06					1E-01
			Dermal													
				Benzo(a)anthracene	5E-01	mg/kg	2.7E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.0E-09	2.7E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	9E-01	mg/kg	4.6E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.4E-08	4.6E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	7.6E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.5E-09	7.6E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	6E-01	mg/kg	2.9E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	2.1E-10	2.9E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	2E-01	mg/kg	1.0E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	7.3E-09	1.0E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	mg/kg	1.7E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.2E-09	1.7E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	3E-01	mg/kg	1.6E-09	mg/kg-day	N/A	N/A	N/A	1.6E-08	mg/kg-day	2.0E-02	mg/kg-day	8.2E-07
				Aroclor 1260	3E-02	mg/kg	1.6E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	1.6E-10	1.6E-09	mg/kg-day	2.0E-05	mg/kg-day	8.0E-05
				Arsenic	2E+03	mg/kg	3.0E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.5E-06	3.0E-05	mg/kg-day	3.0E-04	mg/kg-day	1.0E-01
				Cadmium	9E+00	mg/kg	3.5E-09	mg/kg-day	N/A	N/A	N/A	3.5E-08	mg/kg-day	2.5E-05	mg/kg-day	1.4E-03
			Exp. Route Total								5E-06					1E-01
		Exposure Point Total									9E-06					2E-01

TABLE 3-7.2.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station NT-2	Ingestion													
				Trichloroethene	4E-02	mg/kg	9.0E-11	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	3.6E-11	9.0E-10	mg/kg-day	3.0E-04	mg/kg-day	3.0E-06
				Benzo(a)anthracene	4E-01	mg/kg	1.1E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	7.9E-10	1.1E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	4E-01	mg/kg	9.1E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	6.6E-09	9.1E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	2.9E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.1E-09	2.9E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	7E-01	mg/kg	1.9E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.4E-10	1.9E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	2E-01	mg/kg	6.2E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.5E-09	6.2E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	mg/kg	7.1E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.2E-10	7.1E-09	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	1.4E-09	mg/kg-day	N/A	N/A	N/A	1.4E-08	mg/kg-day	2.0E-02	mg/kg-day	6.9E-07
				Aroclor 1260	4E-02	mg/kg	8.9E-11	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	8.9E-11	8.9E-10	mg/kg-day	2.0E-05	mg/kg-day	4.5E-05
				Antimony	2E+01	mg/kg	3.9E-08	mg/kg-day	N/A	N/A	N/A	3.9E-07	mg/kg-day	4.0E-04	mg/kg-day	9.7E-04
				Arsenic	2E+03	mg/kg	4.5E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.5E-06	4.5E-05	mg/kg-day	5.9E-04	mg/kg-day	7.6E-02
				Barium	9E+01	mg/kg	2.2E-07	mg/kg-day	N/A	N/A	N/A	2.2E-06	mg/kg-day	7.0E-02	mg/kg-day	3.2E-05
				Cadmium	6E+00	mg/kg	1.6E-08	mg/kg-day	N/A	N/A	N/A	1.6E-07	mg/kg-day	1.0E-03	mg/kg-day	1.6E-04
				Chromium III	9E+02	mg/kg	2.4E-06	mg/kg-day	N/A	N/A	N/A	2.4E-05	mg/kg-day	1.5E+00	mg/kg-day	1.6E-05
				Copper	8E+02	mg/kg	1.9E-06	mg/kg-day	N/A	N/A	N/A	1.9E-05	mg/kg-day	3.0E-02	mg/kg-day	6.4E-04
				Lead												
				Manganese	9E+02	mg/kg	2.3E-06	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	7.0E-02	mg/kg-day	3.3E-04
				Mercury	5E+00	mg/kg	1.3E-08	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	1.0E-04	mg/kg-day	1.3E-03
				Nickel	3E+01	mg/kg	8.5E-08	mg/kg-day	N/A	N/A	N/A	8.5E-07	mg/kg-day	2.0E-02	mg/kg-day	4.2E-05
				Thallium	6E-01	mg/kg	1.4E-09	mg/kg-day	N/A	N/A	N/A	1.4E-08	mg/kg-day	8.0E-05	mg/kg-day	1.7E-04
				Vanadium	7E+01	mg/kg	1.7E-07	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	1E+03	mg/kg	3.2E-06	mg/kg-day	N/A	N/A	N/A	3.2E-05	mg/kg-day	3.0E-01	mg/kg-day	1.1E-04
			Exp. Route Total								3E-06					8E-02
			Dermal													
				Benzo(a)anthracene	4E-01	mg/kg	2.2E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.6E-09	2.2E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	4E-01	mg/kg	1.9E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.4E-08	1.9E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	6.1E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.4E-09	6.1E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	7E-01	mg/kg	3.9E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	2.8E-10	3.9E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	2E-01	mg/kg	1.3E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	9.4E-09	1.3E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	mg/kg	1.5E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.1E-09	1.5E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	2.9E-09	mg/kg-day	N/A	N/A	N/A	2.9E-08	mg/kg-day	2.0E-02	mg/kg-day	1.4E-06
				Aroclor 1260	4E-02	mg/kg	2.0E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	2.0E-10	2.0E-09	mg/kg-day	2.0E-05	mg/kg-day	1.0E-04
				Arsenic	2E+03	mg/kg	2.1E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.2E-06	2.1E-05	mg/kg-day	3.0E-04	mg/kg-day	7.2E-02
				Cadmium	6E+00	mg/kg	2.5E-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									7E-06					2E-01

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station NT-3	Ingestion													
				Trichloroethene	5E-02	mg/kg	1.2E-10	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	4.8E-11	1.2E-09	mg/kg-day	3.0E-04	mg/kg-day	4.0E-06
				Benzo(a)anthracene	3E-01	mg/kg	8.8E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.4E-10	8.8E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	6E-01	mg/kg	1.5E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.1E-08	1.5E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	9E-01	mg/kg	2.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.7E-09	2.3E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	5E-01	mg/kg	1.2E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	8.5E-11	1.2E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	2E-01	mg/kg	4.7E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.4E-09	4.7E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	4E-01	mg/kg	1.1E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	8.2E-10	1.1E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	4E-01	mg/kg	9.3E-10	mg/kg-day	N/A	N/A	N/A	9.3E-09	mg/kg-day	2.0E-02	mg/kg-day	4.6E-07
				Aroclor 1260	3E-02	mg/kg	8.8E-11	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	8.8E-11	8.8E-10	mg/kg-day	2.0E-05	mg/kg-day	4.4E-05
				Antimony	2E+01	mg/kg	3.8E-08	mg/kg-day	N/A	N/A	N/A	3.8E-07	mg/kg-day	4.0E-04	mg/kg-day	9.6E-04
				Arsenic	5E+02	mg/kg	1.3E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	9.7E-07	1.3E-05	mg/kg-day	5.9E-04	mg/kg-day	2.1E-02
				Barium	9E+01	mg/kg	2.4E-07	mg/kg-day	N/A	N/A	N/A	2.4E-06	mg/kg-day	7.0E-02	mg/kg-day	3.4E-05
				Cadmium	7E+00	mg/kg	1.7E-08	mg/kg-day	N/A	N/A	N/A	1.7E-07	mg/kg-day	1.0E-03	mg/kg-day	1.7E-04
				Chromium III	1E+03	mg/kg	2.6E-06	mg/kg-day	N/A	N/A	N/A	2.6E-05	mg/kg-day	1.5E+00	mg/kg-day	1.8E-05
				Copper	8E+02	mg/kg	2.1E-06	mg/kg-day	N/A	N/A	N/A	2.1E-05	mg/kg-day	3.0E-02	mg/kg-day	7.1E-04
				Lead												
				Manganese	1E+03	mg/kg	2.5E-06	mg/kg-day	N/A	N/A	N/A	2.5E-05	mg/kg-day	7.0E-02	mg/kg-day	3.6E-04
				Mercury	5E+00	mg/kg	1.3E-08	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	1.0E-04	mg/kg-day	1.3E-03
				Nickel	4E+01	mg/kg	9.2E-08	mg/kg-day	N/A	N/A	N/A	9.2E-07	mg/kg-day	2.0E-02	mg/kg-day	4.6E-05
				Thallium	6E-01	mg/kg	1.4E-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	7E+01	mg/kg	1.7E-07	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	1E+03	mg/kg	3.0E-06	mg/kg-day	N/A	N/A	N/A	3.0E-05	mg/kg-day	3.0E-01	mg/kg-day	1.0E-04
			Exp. Route Total								1E-06					3E-02
			Dermal													
				Benzo(a)anthracene	3E-01	mg/kg	1.8E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.3E-09	1.8E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	6E-01	mg/kg	3.1E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.2E-08	3.1E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	9E-01	mg/kg	4.7E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.4E-09	4.7E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	5E-01	mg/kg	2.4E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.8E-10	2.4E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	2E-01	mg/kg	9.7E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	7.1E-09	9.7E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	4E-01	mg/kg	2.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.7E-09	2.3E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	4E-01	mg/kg	1.9E-09	mg/kg-day	N/A	N/A	N/A	1.9E-08	mg/kg-day	2.0E-02	mg/kg-day	9.6E-07
				Aroclor 1260	3E-02	mg/kg	2.0E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	2.0E-10	2.0E-09	mg/kg-day	2.0E-05	mg/kg-day	9.8E-05
				Arsenic	5E+02	mg/kg	6.0E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	9.1E-07	6.0E-06	mg/kg-day	3.0E-04	mg/kg-day	2.0E-02
				Cadmium	7E+00	mg/kg	2.7E-09	mg/kg-day	N/A	N/A	N/A	2.7E-08	mg/kg-day	2.5E-05	mg/kg-day	1.1E-03
			Exp. Route Total								9E-07					2E-02
		Exposure Point Total									2E-06					5E-02

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station WG	Ingestion													
				Trichloroethene	4E-02	mg/kg	1.1E-10	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	4.3E-11	1.1E-09	mg/kg-day	3.0E-04	mg/kg-day	3.6E-06
				Benzo(a)anthracene	1E-01	mg/kg	3.3E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.4E-10	3.3E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	4.1E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.0E-09	4.1E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E-01	mg/kg	7.4E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.4E-10	7.4E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E-01	mg/kg	5.1E-10	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	3.7E-11	5.1E-09	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	5E-02	mg/kg	1.2E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	8.5E-10	1.2E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	3.6E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.6E-10	3.6E-09	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E-01	mg/kg	4.1E-10	mg/kg-day	N/A	N/A	N/A	4.1E-09	mg/kg-day	2.0E-02	mg/kg-day	2.0E-07
				Aroclor 1260	1E-02	mg/kg	2.8E-11	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	2.8E-11	2.8E-10	mg/kg-day	2.0E-05	mg/kg-day	1.4E-05
				Antimony	9E+00	mg/kg	2.3E-08	mg/kg-day	N/A	N/A	N/A	2.3E-07	mg/kg-day	4.0E-04	mg/kg-day	5.8E-04
				Arsenic	3E+02	mg/kg	6.7E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	5.1E-07	6.7E-06	mg/kg-day	5.9E-04	mg/kg-day	1.1E-02
				Barium	9E+01	mg/kg	2.4E-07	mg/kg-day	N/A	N/A	N/A	2.4E-06	mg/kg-day	7.0E-02	mg/kg-day	3.4E-05
				Cadmium	6E+00	mg/kg	1.6E-08	mg/kg-day	N/A	N/A	N/A	1.6E-07	mg/kg-day	1.0E-03	mg/kg-day	1.6E-04
				Chromium III	9E+02	mg/kg	2.4E-06	mg/kg-day	N/A	N/A	N/A	2.4E-05	mg/kg-day	1.5E+00	mg/kg-day	1.6E-05
				Copper	6E+02	mg/kg	1.6E-06	mg/kg-day	N/A	N/A	N/A	1.6E-05	mg/kg-day	3.0E-02	mg/kg-day	5.3E-04
				Lead												
				Manganese	1E+03	mg/kg	2.6E-06	mg/kg-day	N/A	N/A	N/A	2.6E-05	mg/kg-day	7.0E-02	mg/kg-day	3.7E-04
				Mercury	3E+00	mg/kg	7.5E-09	mg/kg-day	N/A	N/A	N/A	7.5E-08	mg/kg-day	1.0E-04	mg/kg-day	7.5E-04
				Nickel	3E+01	mg/kg	8.8E-08	mg/kg-day	N/A	N/A	N/A	8.8E-07	mg/kg-day	2.0E-02	mg/kg-day	4.4E-05
				Thallium	4E-01	mg/kg	1.1E-09	mg/kg-day	N/A	N/A	N/A	1.1E-08	mg/kg-day	8.0E-05	mg/kg-day	1.4E-04
				Vanadium	7E+01	mg/kg	1.7E-07	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	1E+03	mg/kg	2.8E-06	mg/kg-day	N/A	N/A	N/A	2.8E-05	mg/kg-day	3.0E-01	mg/kg-day	9.2E-05
			Exp. Route Total								5E-07					2E-02
			Dermal													
				Benzo(a)anthracene	1E-01	mg/kg	6.9E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.0E-10	6.9E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	8.4E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	6.2E-09	8.4E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E-01	mg/kg	1.5E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.1E-09	1.5E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E-01	mg/kg	1.1E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	7.7E-11	1.1E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	5E-02	mg/kg	2.4E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.8E-09	2.4E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	7.4E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.4E-10	7.4E-09	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E-01	mg/kg	8.4E-10	mg/kg-day	N/A	N/A	N/A	8.4E-09	mg/kg-day	2.0E-02	mg/kg-day	4.2E-07
				Aroclor 1260	1E-02	mg/kg	6.3E-11	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	6.3E-11	6.3E-10	mg/kg-day	2.0E-05	mg/kg-day	3.1E-05
				Arsenic	3E+02	mg/kg	3.2E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.8E-07	3.2E-06	mg/kg-day	3.0E-04	mg/kg-day	1.1E-02
				Cadmium	6E+00	mg/kg	2.6E-09	mg/kg-day	N/A	N/A	N/A	2.6E-08	mg/kg-day	2.5E-05	mg/kg-day	1.0E-03
			Exp. Route Total								5E-07					1E-02
		Exposure Point Total									1E-06					3E-02

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station WW	Ingestion													
				Benzo(b)fluoranthene	3E-01	mg/kg	8.4E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.1E-10	8.4E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	6E-01	mg/kg	1.6E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.1E-10	1.6E-08	mg/kg-day	N/A	N/A	N/A
				Antimony	3E+01	mg/kg	7.4E-08	mg/kg-day	N/A	N/A	N/A	7.4E-07	mg/kg-day	4.0E-04	mg/kg-day	1.8E-03
				Arsenic	4E+01	mg/kg	1.0E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	8.0E-08	1.0E-06	mg/kg-day	5.9E-04	mg/kg-day	1.8E-03
				Barium	1E+03	mg/kg	3.7E-06	mg/kg-day	N/A	N/A	N/A	3.7E-05	mg/kg-day	7.0E-02	mg/kg-day	5.3E-04
				Cadmium	1E+01	mg/kg	2.4E-08	mg/kg-day	N/A	N/A	N/A	2.4E-07	mg/kg-day	1.0E-03	mg/kg-day	2.4E-04
				Chromium III	2E+04	mg/kg	3.9E-05	mg/kg-day	N/A	N/A	N/A	3.9E-04	mg/kg-day	1.5E+00	mg/kg-day	2.6E-04
				Copper	4E+02	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.1E-05	mg/kg-day	3.0E-02	mg/kg-day	3.5E-04
				Lead												
				Manganese	4E+02	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.1E-05	mg/kg-day	7.0E-02	mg/kg-day	1.5E-04
				Mercury	1E+00	mg/kg	3.0E-09	mg/kg-day	N/A	N/A	N/A	3.0E-08	mg/kg-day	1.0E-04	mg/kg-day	3.0E-04
				Nickel	3E+01	mg/kg	6.4E-08	mg/kg-day	N/A	N/A	N/A	6.4E-07	mg/kg-day	2.0E-02	mg/kg-day	3.2E-05
				Thallium	2E+00	mg/kg	3.9E-09	mg/kg-day	N/A	N/A	N/A	3.9E-08	mg/kg-day	8.0E-05	mg/kg-day	4.9E-04
				Vanadium	8E+01	mg/kg	1.9E-07	mg/kg-day	N/A	N/A	N/A	1.9E-06	mg/kg-day	1.0E-03	mg/kg-day	1.9E-03
				Zinc	1E+03	mg/kg	3.4E-06	mg/kg-day	N/A	N/A	N/A	3.4E-05	mg/kg-day	3.0E-01	mg/kg-day	1.1E-04
				Chromium VI	2E+01	mg/kg	5.1E-08	mg/kg-day	N/A	N/A	N/A	5.1E-07	mg/kg-day	3.0E-03	mg/kg-day	1.7E-04
			Exp. Route Total								8E-08					8E-03
			Dermal													
				Benzo(b)fluoranthene	3E-01	mg/kg	1.7E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.3E-09	1.7E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	6E-01	mg/kg	3.2E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	2.4E-10	3.2E-08	mg/kg-day	N/A	N/A	N/A
				Arsenic	4E+01	mg/kg	5.0E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	7.5E-08	5.0E-07	mg/kg-day	3.0E-04	mg/kg-day	1.7E-03
				Cadmium	1E+01	mg/kg	3.9E-09	mg/kg-day	N/A	N/A	N/A	3.9E-08	mg/kg-day	2.5E-05	mg/kg-day	1.6E-03
			Exp. Route Total								8E-08					3E-03
		Exposure Point Total									2E-07					1E-02

TABLE 3-7.2.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station JY	Ingestion													
				Aroclor 1254	1E+00	mg/kg	3.5E-09	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	3.5E-09	3.5E-08	mg/kg-day	2.0E-05	mg/kg-day	1.7E-03
				Aroclor 1260	1E+00	mg/kg	3.7E-09	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	3.7E-09	3.7E-08	mg/kg-day	2.0E-05	mg/kg-day	1.9E-03
				Antimony	5E+00	mg/kg	1.4E-08	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	4.0E-04	mg/kg-day	3.4E-04
				Arsenic	3E+02	mg/kg	7.2E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	5.5E-07	7.2E-06	mg/kg-day	5.9E-04	mg/kg-day	1.2E-02
				Barium	2E+02	mg/kg	4.6E-07	mg/kg-day	N/A	N/A	N/A	4.6E-06	mg/kg-day	7.0E-02	mg/kg-day	6.6E-05
				Cadmium	1E+01	mg/kg	3.7E-08	mg/kg-day	N/A	N/A	N/A	3.7E-07	mg/kg-day	1.0E-03	mg/kg-day	3.7E-04
				Chromium III	1E+03	mg/kg	3.0E-06	mg/kg-day	N/A	N/A	N/A	3.0E-05	mg/kg-day	1.5E+00	mg/kg-day	2.0E-05
				Copper	5E+02	mg/kg	1.3E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	3.0E-02	mg/kg-day	4.3E-04
				Lead												
				Manganese	4E+02	mg/kg	9.3E-07	mg/kg-day	N/A	N/A	N/A	9.3E-06	mg/kg-day	7.0E-02	mg/kg-day	1.3E-04
				Mercury	2E+00	mg/kg	4.6E-09	mg/kg-day	N/A	N/A	N/A	4.6E-08	mg/kg-day	1.0E-04	mg/kg-day	4.6E-04
				Nickel	8E+01	mg/kg	1.9E-07	mg/kg-day	N/A	N/A	N/A	1.9E-06	mg/kg-day	2.0E-02	mg/kg-day	9.6E-05
				Thallium	4E+00	mg/kg	1.0E-08	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	8.0E-05	mg/kg-day	1.3E-03
				Vanadium	6E+01	mg/kg	1.6E-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	2E+03	mg/kg	6.0E-06	mg/kg-day	N/A	N/A	N/A	6.0E-05	mg/kg-day	3.0E-01	mg/kg-day	2.0E-04
				Chromium VI	2E+00	mg/kg	3.9E-09	mg/kg-day	N/A	N/A	N/A	3.9E-08	mg/kg-day	3.0E-03	mg/kg-day	1.3E-05
			Exp. Route Total								6E-07					2E-02
			Dermal													
				Aroclor 1254	1E+00	mg/kg	7.8E-09	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	7.8E-09	7.8E-08	mg/kg-day	2.0E-05	mg/kg-day	3.9E-03
				Aroclor 1260	1E+00	mg/kg	8.4E-09	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	8.4E-09	8.4E-08	mg/kg-day	2.0E-05	mg/kg-day	4.2E-03
				Arsenic	3E+02	mg/kg	3.4E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.2E-07	3.4E-06	mg/kg-day	3.0E-04	mg/kg-day	1.1E-02
				Cadmium	1E+01	mg/kg	5.9E-09	mg/kg-day	N/A	N/A	N/A	5.9E-08	mg/kg-day	2.5E-05	mg/kg-day	2.4E-03
			Exp. Route Total								5E-07					2E-02
		Exposure Point Total									1E-06					4E-02

TABLE 3-7.2.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station WS/WSS	Ingestion													
				Antimony	5E+00	mg/kg	3.8E-08	mg/kg-day	N/A	N/A	N/A	3.8E-07	mg/kg-day	4.0E-04	mg/kg-day	9.4E-04
				Arsenic	2E+02	mg/kg	1.7E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.3E-06	1.7E-05	mg/kg-day	5.9E-04	mg/kg-day	2.9E-02
				Barium	1E+02	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.1E-05	mg/kg-day	7.0E-02	mg/kg-day	1.5E-04
				Cadmium	1E+01	mg/kg	8.2E-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
				Chromium III	7E+02	mg/kg	5.6E-06	mg/kg-day	N/A	N/A	N/A	5.6E-05	mg/kg-day	1.5E+00	mg/kg-day	3.7E-05
				Copper	4E+02	mg/kg	3.2E-06	mg/kg-day	N/A	N/A	N/A	3.2E-05	mg/kg-day	3.0E-02	mg/kg-day	1.1E-03
				Lead												
				Manganese	1E+03	mg/kg	9.3E-06	mg/kg-day	N/A	N/A	N/A	9.3E-05	mg/kg-day	7.0E-02	mg/kg-day	1.3E-03
				Mercury	1E+00	mg/kg	1.0E-08	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	1.0E-04	mg/kg-day	1.0E-03
				Nickel	4E+01	mg/kg	2.8E-07	mg/kg-day	N/A	N/A	N/A	2.8E-06	mg/kg-day	2.0E-02	mg/kg-day	1.4E-04
				Thallium	1E+00	mg/kg	8.4E-09	mg/kg-day	N/A	N/A	N/A	8.4E-08	mg/kg-day	8.0E-05	mg/kg-day	1.1E-03
				Vanadium	4E+01	mg/kg	3.4E-07	mg/kg-day	N/A	N/A	N/A	3.4E-06	mg/kg-day	1.0E-03	mg/kg-day	3.4E-03
				Zinc	2E+03	mg/kg	1.6E-05	mg/kg-day	N/A	N/A	N/A	1.6E-04	mg/kg-day	3.0E-01	mg/kg-day	5.2E-04
				Chromium VI	9E-01	mg/kg	7.2E-09	mg/kg-day	N/A	N/A	N/A	7.2E-08	mg/kg-day	3.0E-03	mg/kg-day	2.4E-05
			Exp. Route Total								1E-06					4E-02
			Dermal													
				Arsenic	2E+02	mg/kg	8.3E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.2E-06	8.3E-06	mg/kg-day	3.0E-04	mg/kg-day	2.8E-02
				Cadmium	1E+01	mg/kg	1.3E-08	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	2.5E-05	mg/kg-day	5.2E-03
			Exp. Route Total								1E-06					3E-02
		Exposure Point Total									3E-06					7E-02

TABLE 3-7.2.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station TT-30	Ingestion													
				Arsenic	1E+03	mg/kg	2.7E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.1E-06	2.7E-05	mg/kg-day	5.9E-04	mg/kg-day	4.7E-02
				Barium	3E+01	mg/kg	8.3E-08	mg/kg-day	N/A	N/A	N/A	8.3E-07	mg/kg-day	7.0E-02	mg/kg-day	1.2E-05
				Cadmium	7E+00	mg/kg	1.8E-08	mg/kg-day	N/A	N/A	N/A	1.8E-07	mg/kg-day	1.0E-03	mg/kg-day	1.8E-04
				Chromium III	5E+03	mg/kg	1.4E-05	mg/kg-day	N/A	N/A	N/A	1.4E-04	mg/kg-day	1.5E+00	mg/kg-day	9.0E-05
				Copper	4E+03	mg/kg	9.6E-06	mg/kg-day	N/A	N/A	N/A	9.6E-05	mg/kg-day	3.0E-02	mg/kg-day	3.2E-03
				Lead												
				Manganese	2E+02	mg/kg	5.2E-07	mg/kg-day	N/A	N/A	N/A	5.2E-06	mg/kg-day	7.0E-02	mg/kg-day	7.5E-05
				Mercury	9E+01	mg/kg	2.3E-07	mg/kg-day	N/A	N/A	N/A	2.3E-06	mg/kg-day	1.0E-04	mg/kg-day	2.3E-02
				Nickel	8E+00	mg/kg	2.0E-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
				Thallium	2E+00	mg/kg	3.8E-09	mg/kg-day	N/A	N/A	N/A	3.8E-08	mg/kg-day	8.0E-05	mg/kg-day	4.8E-04
				Vanadium	2E+01	mg/kg	5.3E-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
				Zinc	1E+03	mg/kg	3.0E-06	mg/kg-day	N/A	N/A	N/A	3.0E-05	mg/kg-day	3.0E-01	mg/kg-day	9.9E-05
				Chromium VI	7E+00	mg/kg	1.8E-08	mg/kg-day	N/A	N/A	N/A	1.8E-07	mg/kg-day	3.0E-03	mg/kg-day	5.9E-05
			Exp. Route Total								2E-06					7E-02
			Dermal													
				Arsenic	1E+03	mg/kg	1.3E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.0E-06	1.3E-05	mg/kg-day	3.0E-04	mg/kg-day	4.4E-02
				Cadmium	7E+00	mg/kg	2.9E-09	mg/kg-day	N/A	N/A	N/A	2.9E-08	mg/kg-day	2.5E-05	mg/kg-day	1.2E-03
			Exp. Route Total								2E-06					5E-02
		Exposure Point Total									4E-06					1E-01
		Station TT-31	Ingestion													
				Arsenic	2E+01	mg/kg	4.2E-08	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.3E-08	4.2E-07	mg/kg-day	5.9E-04	mg/kg-day	7.2E-04
				Barium	9E+01	mg/kg	2.3E-07	mg/kg-day	N/A	N/A	N/A	2.3E-06	mg/kg-day	7.0E-02	mg/kg-day	3.3E-05
				Cadmium	4E+00	mg/kg	1.1E-08	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	1.0E-03	mg/kg-day	1.1E-04
				Chromium III	2E+02	mg/kg	4.7E-07	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	1.5E+00	mg/kg-day	3.1E-06
				Copper	1E+02	mg/kg	2.9E-07	mg/kg-day	N/A	N/A	N/A	2.9E-06	mg/kg-day	3.0E-02	mg/kg-day	9.6E-05
				Lead												
				Manganese	6E+02	mg/kg	1.5E-06	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	7.0E-02	mg/kg-day	2.2E-04
				Mercury	1E+00	mg/kg	3.6E-09	mg/kg-day	N/A	N/A	N/A	3.6E-08	mg/kg-day	1.0E-04	mg/kg-day	3.6E-04
				Nickel	3E+01	mg/kg	6.6E-08	mg/kg-day	N/A	N/A	N/A	6.6E-07	mg/kg-day	2.0E-02	mg/kg-day	3.3E-05
				Vanadium	5E+01	mg/kg	1.2E-07	mg/kg-day	N/A	N/A	N/A	1.2E-06	mg/kg-day	1.0E-03	mg/kg-day	1.2E-03
				Zinc	5E+02	mg/kg	1.2E-06	mg/kg-day	N/A	N/A	N/A	1.2E-05	mg/kg-day	3.0E-01	mg/kg-day	3.9E-05
			Exp. Route Total								3E-08					3E-03
			Dermal													
				Arsenic	2E+01	mg/kg	2.0E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.0E-08	2.0E-07	mg/kg-day	3.0E-04	mg/kg-day	6.7E-04
				Cadmium	4E+00	mg/kg	1.7E-09	mg/kg-day	N/A	N/A	N/A	1.7E-08	mg/kg-day	2.5E-05	mg/kg-day	6.8E-04
			Exp. Route Total								3E-08					1E-03
		Exposure Point Total									6E-08					4E-03

TABLE 3-7.2.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station CB-01	Ingestion													
				Antimony	2E+00	mg/kg	1.6E-08	mg/kg-day	N/A	N/A	N/A	1.6E-07	mg/kg-day	4.0E-04	mg/kg-day	3.9E-04
				Arsenic	6E+01	mg/kg	4.4E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.4E-07	4.4E-06	mg/kg-day	5.9E-04	mg/kg-day	7.5E-03
				Barium	6E+01	mg/kg	4.5E-07	mg/kg-day	N/A	N/A	N/A	4.5E-06	mg/kg-day	7.0E-02	mg/kg-day	6.4E-05
				Cadmium	9E+00	mg/kg	7.1E-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
				Chromium III	3E+02	mg/kg	2.5E-06	mg/kg-day	N/A	N/A	N/A	2.5E-05	mg/kg-day	1.5E+00	mg/kg-day	1.7E-05
				Copper	7E+02	mg/kg	5.7E-06	mg/kg-day	N/A	N/A	N/A	5.7E-05	mg/kg-day	3.0E-02	mg/kg-day	1.9E-03
				Lead												
				Manganese	7E+02	mg/kg	5.2E-06	mg/kg-day	N/A	N/A	N/A	5.2E-05	mg/kg-day	7.0E-02	mg/kg-day	7.5E-04
				Mercury	3E+00	mg/kg	2.2E-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
				Nickel	2E+01	mg/kg	1.6E-07	mg/kg-day	N/A	N/A	N/A	1.6E-06	mg/kg-day	2.0E-02	mg/kg-day	7.8E-05
				Thallium	3E+00	mg/kg	1.9E-08	mg/kg-day	N/A	N/A	N/A	1.9E-07	mg/kg-day	8.0E-05	mg/kg-day	2.4E-03
				Vanadium	8E+01	mg/kg	6.1E-07	mg/kg-day	N/A	N/A	N/A	6.1E-06	mg/kg-day	1.0E-03	mg/kg-day	6.1E-03
				Zinc	6E+02	mg/kg	4.9E-06	mg/kg-day	N/A	N/A	N/A	4.9E-05	mg/kg-day	3.0E-01	mg/kg-day	1.6E-04
			Exp. Route Total								3E-07					2E-02
			Dermal													
				Arsenic	6E+01	mg/kg	2.1E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.2E-07	2.1E-06	mg/kg-day	3.0E-04	mg/kg-day	7.1E-03
				Cadmium	9E+00	mg/kg	1.1E-08	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	2.5E-05	mg/kg-day	4.5E-03
			Exp. Route Total								3E-07					1E-02
		Exposure Point Total									7E-07					3E-02
		Station CB-02	Ingestion													
				Antimony	2E+00	mg/kg	1.4E-08	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	4.0E-04	mg/kg-day	3.4E-04
				Arsenic	4E+01	mg/kg	3.2E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.4E-07	3.2E-06	mg/kg-day	5.9E-04	mg/kg-day	5.4E-03
				Barium	2E+02	mg/kg	1.3E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	7.0E-02	mg/kg-day	1.9E-04
				Cadmium	4E+00	mg/kg	2.9E-08	mg/kg-day	N/A	N/A	N/A	2.9E-07	mg/kg-day	1.0E-03	mg/kg-day	2.9E-04
				Chromium III	1E+02	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.1E-05	mg/kg-day	1.5E+00	mg/kg-day	7.3E-06
				Copper	1E+02	mg/kg	7.4E-07	mg/kg-day	N/A	N/A	N/A	7.4E-06	mg/kg-day	3.0E-02	mg/kg-day	2.5E-04
				Lead												
				Manganese	7E+01	mg/kg	5.5E-07	mg/kg-day	N/A	N/A	N/A	5.5E-06	mg/kg-day	7.0E-02	mg/kg-day	7.8E-05
				Mercury	3E-01	mg/kg	2.5E-09	mg/kg-day	N/A	N/A	N/A	2.5E-08	mg/kg-day	1.0E-04	mg/kg-day	2.5E-04
				Nickel	1E+01	mg/kg	7.6E-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
				Vanadium	3E+01	mg/kg	2.4E-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
				Zinc	3E+02	mg/kg	2.4E-06	mg/kg-day	N/A	N/A	N/A	2.4E-05	mg/kg-day	3.0E-01	mg/kg-day	8.0E-05
			Exp. Route Total								2E-07					9E-03
			Dermal													
				Arsenic	4E+01	mg/kg	1.5E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.3E-07	1.5E-06	mg/kg-day	3.0E-04	mg/kg-day	5.0E-03
				Cadmium	4E+00	mg/kg	4.7E-09	mg/kg-day	N/A	N/A	N/A	4.7E-08	mg/kg-day	2.5E-05	mg/kg-day	1.9E-03
			Exp. Route Total								2E-07					7E-03
		Exposure Point Total									5E-07					2E-02

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station CB-03	Ingestion													
				Antimony	2E+00	mg/kg	1.2E-08	mg/kg-day	N/A	N/A	N/A	1.2E-07	mg/kg-day	4.0E-04	mg/kg-day	2.9E-04
				Arsenic	6E+02	mg/kg	4.5E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.5E-06	4.5E-05	mg/kg-day	5.9E-04	mg/kg-day	7.7E-02
				Barium	7E+01	mg/kg	5.1E-07	mg/kg-day	N/A	N/A	N/A	5.1E-06	mg/kg-day	7.0E-02	mg/kg-day	7.3E-05
				Cadmium	1E+01	mg/kg	1.0E-07	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	1.0E-03	mg/kg-day	1.0E-03
				Chromium III	5E+02	mg/kg	3.5E-06	mg/kg-day	N/A	N/A	N/A	3.5E-05	mg/kg-day	1.5E+00	mg/kg-day	2.3E-05
				Copper	4E+02	mg/kg	2.9E-06	mg/kg-day	N/A	N/A	N/A	2.9E-05	mg/kg-day	3.0E-02	mg/kg-day	9.6E-04
				Lead												
				Manganese	5E+02	mg/kg	3.5E-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
				Mercury	2E+00	mg/kg	1.9E-08	mg/kg-day	N/A	N/A	N/A	1.9E-07	mg/kg-day	1.0E-04	mg/kg-day	1.9E-03
				Nickel	4E+01	mg/kg	2.8E-07	mg/kg-day	N/A	N/A	N/A	2.8E-06	mg/kg-day	2.0E-02	mg/kg-day	1.4E-04
				Thallium	1E+00	mg/kg	7.4E-09	mg/kg-day	N/A	N/A	N/A	7.4E-08	mg/kg-day	8.0E-05	mg/kg-day	9.2E-04
				Vanadium	6E+01	mg/kg	4.8E-07	mg/kg-day	N/A	N/A	N/A	4.8E-06	mg/kg-day	1.0E-03	mg/kg-day	4.8E-03
				Zinc	2E+03	mg/kg	1.6E-05	mg/kg-day	N/A	N/A	N/A	1.6E-04	mg/kg-day	3.0E-01	mg/kg-day	5.3E-04
			Exp. Route Total								3E-06					9E-02
			Dermal													
				Arsenic	6E+02	mg/kg	2.2E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.3E-06	2.2E-05	mg/kg-day	3.0E-04	mg/kg-day	7.2E-02
				Cadmium	1E+01	mg/kg	1.6E-08	mg/kg-day	N/A	N/A	N/A	1.6E-07	mg/kg-day	2.5E-05	mg/kg-day	6.4E-03
			Exp. Route Total								3E-06					8E-02
		Exposure Point Total									7E-06					2E-01
		Station CB-04	Ingestion													
				Antimony	5E+00	mg/kg	3.6E-08	mg/kg-day	N/A	N/A	N/A	3.6E-07	mg/kg-day	4.0E-04	mg/kg-day	9.1E-04
				Arsenic	2E+02	mg/kg	1.4E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.1E-06	1.4E-05	mg/kg-day	5.9E-04	mg/kg-day	2.4E-02
				Barium	8E+01	mg/kg	5.8E-07	mg/kg-day	N/A	N/A	N/A	5.8E-06	mg/kg-day	7.0E-02	mg/kg-day	8.4E-05
				Cadmium	6E+00	mg/kg	4.4E-08	mg/kg-day	N/A	N/A	N/A	4.4E-07	mg/kg-day	1.0E-03	mg/kg-day	4.4E-04
				Chromium III	3E+02	mg/kg	2.1E-06	mg/kg-day	N/A	N/A	N/A	2.1E-05	mg/kg-day	1.5E+00	mg/kg-day	1.4E-05
				Copper	2E+02	mg/kg	1.9E-06	mg/kg-day	N/A	N/A	N/A	1.9E-05	mg/kg-day	3.0E-02	mg/kg-day	6.2E-04
				Lead												
				Manganese	1E+03	mg/kg	1.1E-05	mg/kg-day	N/A	N/A	N/A	1.1E-04	mg/kg-day	7.0E-02	mg/kg-day	1.5E-03
				Mercury	1E+00	mg/kg	9.2E-09	mg/kg-day	N/A	N/A	N/A	9.2E-08	mg/kg-day	1.0E-04	mg/kg-day	9.2E-04
				Nickel	8E+01	mg/kg	5.9E-07	mg/kg-day	N/A	N/A	N/A	5.9E-06	mg/kg-day	2.0E-02	mg/kg-day	2.9E-04
				Thallium	1E+00	mg/kg	8.6E-09	mg/kg-day	N/A	N/A	N/A	8.6E-08	mg/kg-day	8.0E-05	mg/kg-day	1.1E-03
				Vanadium	7E+01	mg/kg	5.2E-07	mg/kg-day	N/A	N/A	N/A	5.2E-06	mg/kg-day	1.0E-03	mg/kg-day	5.2E-03
				Zinc	3E+03	mg/kg	2.3E-05	mg/kg-day	N/A	N/A	N/A	2.3E-04	mg/kg-day	3.0E-01	mg/kg-day	7.8E-04
			Exp. Route Total								1E-06					4E-02
			Dermal													
				Arsenic	2E+02	mg/kg	8.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.0E-06	6.6E-06	mg/kg-day	3.0E-04	mg/kg-day	2.2E-02
				Cadmium	6E+00	mg/kg	7.0E-09	mg/kg-day	N/A	N/A	N/A	7.0E-08	mg/kg-day	2.5E-05	mg/kg-day	2.8E-03
			Exp. Route Total								1E-06					2E-02
		Exposure Point Total									2E-06					6E-02

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station CB-06	Ingestion													
				Antimony	5E+00	mg/kg	3.6E-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	1E+02	mg/kg	1.1E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	8.2E-07	1.1E-05	mg/kg-day	5.9E-04	mg/kg-day	1.8E-02
				Barium	5E+01	mg/kg	3.9E-07	mg/kg-day	N/A	N/A	N/A	3.9E-06	mg/kg-day	7.0E-02	mg/kg-day	5.6E-05
				Cadmium	2E+01	mg/kg	1.3E-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
				Chromium III	5E+02	mg/kg	3.8E-06	mg/kg-day	N/A	N/A	N/A	3.8E-05	mg/kg-day	1.5E+00	mg/kg-day	2.5E-05
				Copper	2E+02	mg/kg	1.8E-06	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	3.0E-02	mg/kg-day	6.0E-04
				Lead												
				Manganese	9E+01	mg/kg	7.2E-07	mg/kg-day	N/A	N/A	N/A	7.2E-06	mg/kg-day	7.0E-02	mg/kg-day	1.0E-04
				Mercury	3E-01	mg/kg	2.6E-09	mg/kg-day	N/A	N/A	N/A	2.6E-08	mg/kg-day	1.0E-04	mg/kg-day	2.6E-04
				Nickel	3E+01	mg/kg	2.1E-07	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	2.0E-02	mg/kg-day	1.1E-04
				Thallium	4E+00	mg/kg	3.2E-08	mg/kg-day	N/A	N/A	N/A	3.2E-07	mg/kg-day	8.0E-05	mg/kg-day	3.9E-03
				Vanadium	7E+01	mg/kg	5.5E-07	mg/kg-day	N/A	N/A	N/A	5.5E-06	mg/kg-day	1.0E-03	mg/kg-day	5.5E-03
				Zinc	2E+03	mg/kg	1.6E-05	mg/kg-day	N/A	N/A	N/A	1.6E-04	mg/kg-day	3.0E-01	mg/kg-day	5.3E-04
				Chromium VI	6E-01	mg/kg	4.9E-09	mg/kg-day	N/A	N/A	N/A	4.9E-08	mg/kg-day	3.0E-03	mg/kg-day	1.6E-05
			Exp. Route Total								8E-07					3E-02
			Dermal													
				Arsenic	1E+02	mg/kg	5.1E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	7.7E-07	5.1E-06	mg/kg-day	3.0E-04	mg/kg-day	1.7E-02
				Cadmium	2E+01	mg/kg	2.1E-08	mg/kg-day	N/A	N/A	N/A	2.1E-07	mg/kg-day	2.5E-05	mg/kg-day	8.4E-03
			Exp. Route Total								8E-07					3E-02
		Exposure Point Total									2E-06					6E-02
		Station CB-07	Ingestion													
				Arsenic	2E+02	mg/kg	5.4E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	4.1E-07	5.4E-06	mg/kg-day	5.9E-04	mg/kg-day	9.1E-03
				Barium	6E+01	mg/kg	1.4E-07	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	7.0E-02	mg/kg-day	2.0E-05
				Cadmium	5E+00	mg/kg	1.2E-08	mg/kg-day	N/A	N/A	N/A	1.2E-07	mg/kg-day	1.0E-03	mg/kg-day	1.2E-04
				Chromium III	7E+02	mg/kg	1.8E-06	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	1.5E+00	mg/kg-day	1.2E-05
				Copper	2E+02	mg/kg	4.2E-07	mg/kg-day	N/A	N/A	N/A	4.2E-06	mg/kg-day	3.0E-02	mg/kg-day	1.4E-04
				Lead												
				Manganese	3E+02	mg/kg	8.5E-07	mg/kg-day	N/A	N/A	N/A	8.5E-06	mg/kg-day	7.0E-02	mg/kg-day	1.2E-04
				Mercury	1E+00	mg/kg	3.3E-09	mg/kg-day	N/A	N/A	N/A	3.3E-08	mg/kg-day	1.0E-04	mg/kg-day	3.3E-04
				Nickel	2E+01	mg/kg	5.6E-08	mg/kg-day	N/A	N/A	N/A	5.6E-07	mg/kg-day	2.0E-02	mg/kg-day	2.8E-05
				Vanadium	9E+01	mg/kg	2.3E-07	mg/kg-day	N/A	N/A	N/A	2.3E-06	mg/kg-day	1.0E-03	mg/kg-day	2.3E-03
				Zinc	6E+02	mg/kg	1.6E-06	mg/kg-day	N/A	N/A	N/A	1.6E-05	mg/kg-day	3.0E-01	mg/kg-day	5.2E-05
			Exp. Route Total								4E-07					1E-02
			Dermal													
				Arsenic	2E+02	mg/kg	2.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.9E-07	2.6E-06	mg/kg-day	3.0E-04	mg/kg-day	8.6E-03
				Cadmium	5E+00	mg/kg	2.0E-09	mg/kg-day	N/A	N/A	N/A	2.0E-08	mg/kg-day	2.5E-05	mg/kg-day	7.9E-04
			Exp. Route Total								4E-07					9E-03
		Exposure Point Total									8E-07					2E-02

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station 16/TT-33	Ingestion													
				Benzo(a)anthracene	1E-01	mg/kg	2.8E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.0E-10	2.8E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E-01	mg/kg	3.6E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.6E-09	3.6E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E-01	mg/kg	5.9E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.3E-10	5.9E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E-01	mg/kg	2.5E-10	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.8E-11	2.5E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	6E-02	mg/kg	1.5E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.1E-10	1.5E-09	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	1E-01	mg/kg	3.3E-10	mg/kg-day	N/A	N/A	N/A	3.3E-09	mg/kg-day	2.0E-02	mg/kg-day	1.7E-07
				Antimony	6E+00	mg/kg	1.5E-08	mg/kg-day	N/A	N/A	N/A	1.5E-07	mg/kg-day	4.0E-04	mg/kg-day	3.7E-04
				Arsenic	2E+02	mg/kg	6.0E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	4.6E-07	6.0E-06	mg/kg-day	5.9E-04	mg/kg-day	1.0E-02
				Barium	6E+01	mg/kg	1.6E-07	mg/kg-day	N/A	N/A	N/A	1.6E-06	mg/kg-day	7.0E-02	mg/kg-day	2.3E-05
				Cadmium	6E+00	mg/kg	1.4E-08	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	1.0E-03	mg/kg-day	1.4E-04
				Chromium III	6E+02	mg/kg	1.5E-06	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	1.5E+00	mg/kg-day	9.7E-06
				Copper	4E+02	mg/kg	1.0E-06	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	3.0E-02	mg/kg-day	3.4E-04
				Lead												
				Manganese	4E+02	mg/kg	9.9E-07	mg/kg-day	N/A	N/A	N/A	9.9E-06	mg/kg-day	7.0E-02	mg/kg-day	1.4E-04
				Mercury	3E+00	mg/kg	8.7E-09	mg/kg-day	N/A	N/A	N/A	8.7E-08	mg/kg-day	1.0E-04	mg/kg-day	8.7E-04
				Nickel	2E+01	mg/kg	3.9E-08	mg/kg-day	N/A	N/A	N/A	3.9E-07	mg/kg-day	2.0E-02	mg/kg-day	2.0E-05
				Vanadium	3E+01	mg/kg	7.8E-08	mg/kg-day	N/A	N/A	N/A	7.8E-07	mg/kg-day	1.0E-03	mg/kg-day	7.8E-04
				Zinc	9E+02	mg/kg	2.4E-06	mg/kg-day	N/A	N/A	N/A	2.4E-05	mg/kg-day	3.0E-01	mg/kg-day	7.9E-05
				Chromium VI	7E-01	mg/kg	1.9E-09	mg/kg-day	N/A	N/A	N/A	1.9E-08	mg/kg-day	3.0E-03	mg/kg-day	6.3E-06
			Exp. Route Total								5E-07					1E-02
			Dermal													
				Benzo(a)anthracene	1E-01	mg/kg	5.8E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.2E-10	5.8E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E-01	mg/kg	7.4E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	5.4E-09	7.4E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E-01	mg/kg	1.2E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.0E-10	1.2E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E-01	mg/kg	5.2E-10	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	3.8E-11	5.2E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	6E-02	mg/kg	3.2E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.3E-10	3.2E-09	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	1E-01	mg/kg	6.9E-10	mg/kg-day	N/A	N/A	N/A	6.9E-09	mg/kg-day	2.0E-02	mg/kg-day	3.4E-07
				Arsenic	2E+02	mg/kg	2.9E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.3E-07	2.9E-06	mg/kg-day	3.0E-04	mg/kg-day	9.6E-03
				Cadmium	6E+00	mg/kg	2.3E-09	mg/kg-day	N/A	N/A	N/A	2.3E-08	mg/kg-day	2.5E-05	mg/kg-day	9.1E-04
			Exp. Route Total								4E-07					1E-02
		Exposure Point Total									9E-07					2E-02

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station 09	Ingestion													
				Benzo(a)anthracene	5E-01	mg/kg	1.2E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	8.9E-10	1.2E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	5E-01	mg/kg	1.3E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	9.3E-09	1.3E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	3.4E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.5E-09	3.4E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	3.1E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	2.2E-10	3.1E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	8E-02	mg/kg	2.0E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.5E-09	2.0E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	mg/kg	6.4E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.7E-10	6.4E-09	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	3E-01	mg/kg	7.8E-10	mg/kg-day	N/A	N/A	N/A	7.8E-09	mg/kg-day	2.0E-02	mg/kg-day	3.9E-07
				Antimony	1E+00	mg/kg	2.6E-09	mg/kg-day	N/A	N/A	N/A	2.6E-08	mg/kg-day	4.0E-04	mg/kg-day	6.4E-05
				Arsenic	3E+01	mg/kg	8.9E-08	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	6.8E-08	8.9E-07	mg/kg-day	5.9E-04	mg/kg-day	1.5E-03
				Barium	3E+01	mg/kg	8.4E-08	mg/kg-day	N/A	N/A	N/A	8.4E-07	mg/kg-day	7.0E-02	mg/kg-day	1.2E-05
				Cadmium	7E-01	mg/kg	1.7E-09	mg/kg-day	N/A	N/A	N/A	1.7E-08	mg/kg-day	1.0E-03	mg/kg-day	1.7E-05
				Chromium III	6E+01	mg/kg	1.5E-07	mg/kg-day	N/A	N/A	N/A	1.5E-06	mg/kg-day	1.5E+00	mg/kg-day	1.0E-06
				Copper	6E+01	mg/kg	1.6E-07	mg/kg-day	N/A	N/A	N/A	1.6E-06	mg/kg-day	3.0E-02	mg/kg-day	5.4E-05
				Lead												
				Manganese	4E+02	mg/kg	9.3E-07	mg/kg-day	N/A	N/A	N/A	9.3E-06	mg/kg-day	7.0E-02	mg/kg-day	1.3E-04
				Mercury	4E-01	mg/kg	9.8E-10	mg/kg-day	N/A	N/A	N/A	9.8E-09	mg/kg-day	1.0E-04	mg/kg-day	9.8E-05
				Nickel	1E+01	mg/kg	2.5E-08	mg/kg-day	N/A	N/A	N/A	2.5E-07	mg/kg-day	2.0E-02	mg/kg-day	1.2E-05
				Thallium	1E+00	mg/kg	3.3E-09	mg/kg-day	N/A	N/A	N/A	3.3E-08	mg/kg-day	8.0E-05	mg/kg-day	4.1E-04
				Vanadium	1E+01	mg/kg	3.5E-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
				Zinc	2E+02	mg/kg	6.0E-07	mg/kg-day	N/A	N/A	N/A	6.0E-06	mg/kg-day	3.0E-01	mg/kg-day	2.0E-05
			Exp. Route Total								8E-08					3E-03
			Dermal													
				Benzo(a)anthracene	5E-01	mg/kg	2.5E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.8E-09	2.5E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	5E-01	mg/kg	2.7E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.9E-08	2.7E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	7.0E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.1E-09	7.0E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	6.4E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	4.7E-10	6.4E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	8E-02	mg/kg	4.2E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.1E-09	4.2E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	mg/kg	1.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.7E-10	1.3E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	3E-01	mg/kg	1.6E-09	mg/kg-day	N/A	N/A	N/A	1.6E-08	mg/kg-day	2.0E-02	mg/kg-day	8.1E-07
				Arsenic	3E+01	mg/kg	4.2E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.4E-08	4.2E-07	mg/kg-day	3.0E-04	mg/kg-day	1.4E-03
				Cadmium	7E-01	mg/kg	2.8E-10	mg/kg-day	N/A	N/A	N/A	2.8E-09	mg/kg-day	2.5E-05	mg/kg-day	1.1E-04
			Exp. Route Total								9E-08					2E-03
		Exposure Point Total									2E-07					4E-03

TABLE 3-7.2.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station AM	Ingestion													
				Antimony	2E+00	mg/kg	5.1E-09	mg/kg-day	N/A	N/A	N/A	5.1E-08	mg/kg-day	4.0E-04	mg/kg-day	1.3E-04
				Arsenic	1E+02	mg/kg	3.1E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.4E-07	3.1E-06	mg/kg-day	5.9E-04	mg/kg-day	5.2E-03
				Barium	6E+01	mg/kg	1.5E-07	mg/kg-day	N/A	N/A	N/A	1.5E-06	mg/kg-day	7.0E-02	mg/kg-day	2.1E-05
				Cadmium	4E+00	mg/kg	9.9E-09	mg/kg-day	N/A	N/A	N/A	9.9E-08	mg/kg-day	1.0E-03	mg/kg-day	9.9E-05
				Chromium III	3E+02	mg/kg	8.2E-07	mg/kg-day	N/A	N/A	N/A	8.2E-06	mg/kg-day	1.5E+00	mg/kg-day	5.5E-06
				Copper	2E+02	mg/kg	5.0E-07	mg/kg-day	N/A	N/A	N/A	5.0E-06	mg/kg-day	3.0E-02	mg/kg-day	1.7E-04
				Lead												
				Manganese	1E+03	mg/kg	2.9E-06	mg/kg-day	N/A	N/A	N/A	2.9E-05	mg/kg-day	7.0E-02	mg/kg-day	4.1E-04
				Mercury	2E+00	mg/kg	4.8E-09	mg/kg-day	N/A	N/A	N/A	4.8E-08	mg/kg-day	1.0E-04	mg/kg-day	4.8E-04
				Nickel	2E+01	mg/kg	4.6E-08	mg/kg-day	N/A	N/A	N/A	4.6E-07	mg/kg-day	2.0E-02	mg/kg-day	2.3E-05
				Thallium	4E-01	mg/kg	1.1E-09	mg/kg-day	N/A	N/A	N/A	1.1E-08	mg/kg-day	8.0E-05	mg/kg-day	1.4E-04
				Vanadium	3E+01	mg/kg	6.8E-08	mg/kg-day	N/A	N/A	N/A	6.8E-07	mg/kg-day	1.0E-03	mg/kg-day	6.8E-04
				Zinc	9E+02	mg/kg	2.4E-06	mg/kg-day	N/A	N/A	N/A	2.4E-05	mg/kg-day	3.0E-01	mg/kg-day	8.0E-05
			Exp. Route Total								2E-07					7E-03
			Dermal													
				Arsenic	1E+02	mg/kg	1.5E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.2E-07	1.5E-06	mg/kg-day	3.0E-04	mg/kg-day	4.9E-03
				Cadmium	4E+00	mg/kg	1.6E-09	mg/kg-day	N/A	N/A	N/A	1.6E-08	mg/kg-day	2.5E-05	mg/kg-day	6.3E-04
			Exp. Route Total								2E-07					6E-03
		Exposure Point Total									5E-07					1E-02
		Station KF	Ingestion													
				Arsenic	5E+01	mg/kg	1.3E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.0E-07	1.3E-06	mg/kg-day	5.9E-04	mg/kg-day	2.2E-03
				Barium	4E+01	mg/kg	1.0E-07	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	7.0E-02	mg/kg-day	1.5E-05
				Cadmium	1E+00	mg/kg	2.6E-09	mg/kg-day	N/A	N/A	N/A	2.6E-08	mg/kg-day	1.0E-03	mg/kg-day	2.6E-05
				Chromium III	9E+01	mg/kg	2.2E-07	mg/kg-day	N/A	N/A	N/A	2.2E-06	mg/kg-day	1.5E+00	mg/kg-day	1.5E-06
				Copper	1E+02	mg/kg	2.8E-07	mg/kg-day	N/A	N/A	N/A	2.8E-06	mg/kg-day	3.0E-02	mg/kg-day	9.5E-05
				Lead												
				Manganese	4E+02	mg/kg	9.2E-07	mg/kg-day	N/A	N/A	N/A	9.2E-06	mg/kg-day	7.0E-02	mg/kg-day	1.3E-04
				Mercury	9E-01	mg/kg	2.3E-09	mg/kg-day	N/A	N/A	N/A	2.3E-08	mg/kg-day	1.0E-04	mg/kg-day	2.3E-04
				Nickel	9E+00	mg/kg	2.3E-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
				Vanadium	2E+01	mg/kg	5.9E-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
				Zinc	3E+02	mg/kg	8.9E-07	mg/kg-day	N/A	N/A	N/A	8.9E-06	mg/kg-day	3.0E-01	mg/kg-day	3.0E-05
			Exp. Route Total								1E-07					3E-03
			Dermal													
				Arsenic	5E+01	mg/kg	6.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	9.5E-08	6.3E-07	mg/kg-day	3.0E-04	mg/kg-day	2.1E-03
				Cadmium	1E+00	mg/kg	4.2E-10	mg/kg-day	N/A	N/A	N/A	4.2E-09	mg/kg-day	2.5E-05	mg/kg-day	1.7E-04
			Exp. Route Total								9E-08					2E-03
		Exposure Point Total									2E-07					6E-03

TABLE 3-7.2.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station 08	Ingestion													
				Benzo(a)anthracene	5E-01	mg/kg	1.2E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.0E-10	1.2E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	6E-01	mg/kg	1.6E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.2E-08	1.6E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	3.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.4E-09	3.3E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	3.4E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	2.5E-10	3.4E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	9E-02	mg/kg	2.4E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.7E-09	2.4E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	4E-01	mg/kg	1.0E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	7.4E-10	1.0E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	1.2E-09	mg/kg-day	N/A	N/A	N/A	1.2E-08	mg/kg-day	2.0E-02	mg/kg-day	6.1E-07
				Antimony	1E+00	mg/kg	2.6E-09	mg/kg-day	N/A	N/A	N/A	2.6E-08	mg/kg-day	4.0E-04	mg/kg-day	6.6E-05
				Arsenic	2E+01	mg/kg	4.8E-08	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.7E-08	4.8E-07	mg/kg-day	5.9E-04	mg/kg-day	8.1E-04
				Barium	2E+01	mg/kg	4.8E-08	mg/kg-day	N/A	N/A	N/A	4.8E-07	mg/kg-day	7.0E-02	mg/kg-day	6.9E-06
				Chromium III	5E+01	mg/kg	1.4E-07	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	1.5E+00	mg/kg-day	9.2E-07
				Copper	7E+01	mg/kg	1.9E-07	mg/kg-day	N/A	N/A	N/A	1.9E-06	mg/kg-day	3.0E-02	mg/kg-day	6.2E-05
				Lead												
				Manganese	2E+02	mg/kg	4.1E-07	mg/kg-day	N/A	N/A	N/A	4.1E-06	mg/kg-day	7.0E-02	mg/kg-day	5.8E-05
				Mercury	5E-01	mg/kg	1.2E-09	mg/kg-day	N/A	N/A	N/A	1.2E-08	mg/kg-day	1.0E-04	mg/kg-day	1.2E-04
				Nickel	1E+01	mg/kg	3.1E-08	mg/kg-day	N/A	N/A	N/A	3.1E-07	mg/kg-day	2.0E-02	mg/kg-day	1.6E-05
				Thallium	1E+00	mg/kg	3.6E-09	mg/kg-day	N/A	N/A	N/A	3.6E-08	mg/kg-day	8.0E-05	mg/kg-day	4.6E-04
				Vanadium	1E+01	mg/kg	3.8E-08	mg/kg-day	N/A	N/A	N/A	3.8E-07	mg/kg-day	1.0E-03	mg/kg-day	3.8E-04
				Zinc	4E+02	mg/kg	8.9E-07	mg/kg-day	N/A	N/A	N/A	8.9E-06	mg/kg-day	3.0E-01	mg/kg-day	3.0E-05
			Exp. Route Total								5E-08					2E-03
			Dermal													
				Benzo(a)anthracene	5E-01	mg/kg	2.6E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.9E-09	2.6E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	6E-01	mg/kg	3.3E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.4E-08	3.3E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	6.8E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.9E-09	6.8E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	7.1E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	5.2E-10	7.1E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	9E-02	mg/kg	4.9E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.6E-09	4.9E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	4E-01	mg/kg	2.1E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.5E-09	2.1E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	2.5E-09	mg/kg-day	N/A	N/A	N/A	2.5E-08	mg/kg-day	2.0E-02	mg/kg-day	1.3E-06
				Arsenic	2E+01	mg/kg	2.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.4E-08	2.3E-07	mg/kg-day	3.0E-04	mg/kg-day	7.6E-04
			Exp. Route Total								7E-08					8E-04
		Exposure Point Total									1E-07					3E-03

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station 07/DP	Ingestion													
				Trichloroethene	2E-02	mg/kg	5.6E-11	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	2.3E-11	5.6E-10	mg/kg-day	3.0E-04	mg/kg-day	1.9E-06
				Benzo(a)anthracene	6E+00	mg/kg	1.4E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.0E-08	1.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	6E+00	mg/kg	1.4E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.0E-07	1.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+01	mg/kg	2.4E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.8E-08	2.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	9E+00	mg/kg	2.3E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.7E-09	2.3E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1E+00	mg/kg	2.8E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.0E-08	2.8E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	4E+00	mg/kg	9.8E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	7.2E-09	9.8E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	7E+00	mg/kg	1.7E-08	mg/kg-day	N/A	N/A	N/A	1.7E-07	mg/kg-day	2.0E-02	mg/kg-day	8.7E-06
				Aroclor 1260	7E-02	mg/kg	1.7E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	1.7E-10	1.7E-09	mg/kg-day	2.0E-05	mg/kg-day	8.4E-05
				Antimony	2E+00	mg/kg	5.9E-09	mg/kg-day	N/A	N/A	N/A	5.9E-08	mg/kg-day	4.0E-04	mg/kg-day	1.5E-04
				Arsenic	8E+01	mg/kg	2.0E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.6E-07	2.0E-06	mg/kg-day	5.9E-04	mg/kg-day	3.4E-03
				Barium	8E+01	mg/kg	2.1E-07	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	7.0E-02	mg/kg-day	3.1E-05
				Cadmium	5E+00	mg/kg	1.3E-08	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	1.0E-03	mg/kg-day	1.3E-04
				Chromium III	2E+02	mg/kg	6.3E-07	mg/kg-day	N/A	N/A	N/A	6.3E-06	mg/kg-day	1.5E+00	mg/kg-day	4.2E-06
				Copper	2E+02	mg/kg	6.0E-07	mg/kg-day	N/A	N/A	N/A	6.0E-06	mg/kg-day	3.0E-02	mg/kg-day	2.0E-04
				Lead												
				Manganese	4E+02	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.1E-05	mg/kg-day	7.0E-02	mg/kg-day	1.5E-04
				Mercury	3E+00	mg/kg	7.1E-09	mg/kg-day	N/A	N/A	N/A	7.1E-08	mg/kg-day	1.0E-04	mg/kg-day	7.1E-04
				Nickel	3E+01	mg/kg	7.0E-08	mg/kg-day	N/A	N/A	N/A	7.0E-07	mg/kg-day	2.0E-02	mg/kg-day	3.5E-05
				Thallium	2E+00	mg/kg	5.6E-09	mg/kg-day	N/A	N/A	N/A	5.6E-08	mg/kg-day	8.0E-05	mg/kg-day	7.0E-04
				Vanadium	5E+01	mg/kg	1.3E-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
				Zinc	1E+03	mg/kg	3.4E-06	mg/kg-day	N/A	N/A	N/A	3.4E-05	mg/kg-day	3.0E-01	mg/kg-day	1.1E-04
			Exp. Route Total								3E-07					7E-03
			Dermal													
				Benzo(a)anthracene	6E+00	mg/kg	2.9E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.2E-08	2.9E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	6E+00	mg/kg	2.9E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.1E-07	2.9E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+01	mg/kg	5.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.7E-08	5.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	9E+00	mg/kg	4.8E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	3.5E-09	4.8E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1E+00	mg/kg	5.7E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.2E-08	5.7E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	4E+00	mg/kg	2.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.5E-08	2.0E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	7E+00	mg/kg	3.6E-08	mg/kg-day	N/A	N/A	N/A	3.6E-07	mg/kg-day	2.0E-02	mg/kg-day	1.8E-05
				Aroclor 1260	7E-02	mg/kg	3.8E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	3.8E-10	3.8E-09	mg/kg-day	2.0E-05	mg/kg-day	1.9E-04
				Arsenic	8E+01	mg/kg	9.7E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.5E-07	9.7E-07	mg/kg-day	3.0E-04	mg/kg-day	3.2E-03
				Cadmium	5E+00	mg/kg	2.1E-09	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								5E-07					4E-03
		Exposure Point Total									8E-07					1E-02

TABLE 3-7.2.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station LP	Ingestion													
				Antimony	2E+00	mg/kg	4.4E-09	mg/kg-day	N/A	N/A	N/A	4.4E-08	mg/kg-day	4.0E-04	mg/kg-day	1.1E-04
				Arsenic	2E+02	mg/kg	3.8E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.0E-07	3.8E-06	mg/kg-day	5.9E-04	mg/kg-day	6.5E-03
				Barium	4E+01	mg/kg	9.4E-08	mg/kg-day	N/A	N/A	N/A	9.4E-07	mg/kg-day	7.0E-02	mg/kg-day	1.3E-05
				Cadmium	3E+00	mg/kg	6.7E-09	mg/kg-day	N/A	N/A	N/A	6.7E-08	mg/kg-day	1.0E-03	mg/kg-day	6.7E-05
				Chromium III	8E+01	mg/kg	2.0E-07	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	1.5E+00	mg/kg-day	1.3E-06
				Copper	4E+02	mg/kg	9.3E-07	mg/kg-day	N/A	N/A	N/A	9.3E-06	mg/kg-day	3.0E-02	mg/kg-day	3.1E-04
				Lead												
				Manganese	2E+02	mg/kg	5.3E-07	mg/kg-day	N/A	N/A	N/A	5.3E-06	mg/kg-day	7.0E-02	mg/kg-day	7.6E-05
				Mercury	7E-01	mg/kg	1.9E-09	mg/kg-day	N/A	N/A	N/A	1.9E-08	mg/kg-day	1.0E-04	mg/kg-day	1.9E-04
				Nickel	1E+01	mg/kg	3.6E-08	mg/kg-day	N/A	N/A	N/A	3.6E-07	mg/kg-day	2.0E-02	mg/kg-day	1.8E-05
				Thallium	2E+00	mg/kg	4.8E-09	mg/kg-day	N/A	N/A	N/A	4.8E-08	mg/kg-day	8.0E-05	mg/kg-day	6.0E-04
				Vanadium	2E+01	mg/kg	5.3E-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
				Zinc	1E+03	mg/kg	3.3E-06	mg/kg-day	N/A	N/A	N/A	3.3E-05	mg/kg-day	3.0E-01	mg/kg-day	1.1E-04
			Exp. Route Total								3E-07					9E-03
			Dermal													
				Arsenic	2E+02	mg/kg	1.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.8E-07	1.8E-06	mg/kg-day	3.0E-04	mg/kg-day	6.1E-03
				Cadmium	3E+00	mg/kg	1.1E-09	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-07					7E-03
		Exposure Point Total									6E-07					2E-02
		Station AS	Ingestion													
				Antimony	3E+00	mg/kg	6.4E-09	mg/kg-day	N/A	N/A	N/A	6.4E-08	mg/kg-day	4.0E-04	mg/kg-day	1.6E-04
				Arsenic	1E+02	mg/kg	3.0E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.3E-07	3.0E-06	mg/kg-day	5.9E-04	mg/kg-day	5.0E-03
				Barium	1E+02	mg/kg	2.6E-07	mg/kg-day	N/A	N/A	N/A	2.6E-06	mg/kg-day	7.0E-02	mg/kg-day	3.7E-05
				Cadmium	1E+01	mg/kg	3.0E-08	mg/kg-day	N/A	N/A	N/A	3.0E-07	mg/kg-day	1.0E-03	mg/kg-day	3.0E-04
				Chromium III	7E+02	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
				Copper	5E+02	mg/kg	1.3E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	3.0E-02	mg/kg-day	4.3E-04
				Lead												
				Manganese	4E+02	mg/kg	9.7E-07	mg/kg-day	N/A	N/A	N/A	9.7E-06	mg/kg-day	7.0E-02	mg/kg-day	1.4E-04
				Mercury	3E+00	mg/kg	7.8E-09	mg/kg-day	N/A	N/A	N/A	7.8E-08	mg/kg-day	1.0E-04	mg/kg-day	7.8E-04
				Nickel	4E+01	mg/kg	9.5E-08	mg/kg-day	N/A	N/A	N/A	9.5E-07	mg/kg-day	2.0E-02	mg/kg-day	4.7E-05
				Thallium	1E+00	mg/kg	2.7E-09	mg/kg-day	N/A	N/A	N/A	2.7E-08	mg/kg-day	8.0E-05	mg/kg-day	3.4E-04
				Vanadium	7E+01	mg/kg	1.7E-07	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	2E+03	mg/kg	5.6E-06	mg/kg-day	N/A	N/A	N/A	5.6E-05	mg/kg-day	3.0E-01	mg/kg-day	1.9E-04
			Exp. Route Total								2E-07					9E-03
			Dermal													
				Arsenic	1E+02	mg/kg	1.4E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.1E-07	1.4E-06	mg/kg-day	3.0E-04	mg/kg-day	4.7E-03
				Cadmium	1E+01	mg/kg	4.9E-09	mg/kg-day	N/A	N/A	N/A	4.9E-08	mg/kg-day	2.5E-05	mg/kg-day	1.9E-03
			Exp. Route Total								2E-07					7E-03
		Exposure Point Total									4E-07					2E-02

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station 05	Ingestion													
				Benzo(a)anthracene	4E-01	mg/kg	1.1E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	8.0E-10	1.1E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	3E-01	mg/kg	8.8E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	6.4E-09	8.8E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	4E-01	mg/kg	9.0E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.6E-10	9.0E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	3E-01	mg/kg	6.5E-10	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	4.7E-11	6.5E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	2E-01	mg/kg	4.4E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.2E-10	4.4E-09	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	7E-01	mg/kg	1.7E-09	mg/kg-day	N/A	N/A	N/A	1.7E-08	mg/kg-day	2.0E-02	mg/kg-day	8.7E-07
				Antimony	9E-01	mg/kg	2.4E-09	mg/kg-day	N/A	N/A	N/A	2.4E-08	mg/kg-day	4.0E-04	mg/kg-day	6.0E-05
				Arsenic	8E+00	mg/kg	2.1E-08	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.6E-08	2.1E-07	mg/kg-day	5.9E-04	mg/kg-day	3.6E-04
				Barium	3E+01	mg/kg	8.8E-08	mg/kg-day	N/A	N/A	N/A	8.8E-07	mg/kg-day	7.0E-02	mg/kg-day	1.3E-05
				Cadmium	2E-01	mg/kg	5.6E-10	mg/kg-day	N/A	N/A	N/A	5.6E-09	mg/kg-day	1.0E-03	mg/kg-day	5.6E-06
				Chromium III	3E+01	mg/kg	8.5E-08	mg/kg-day	N/A	N/A	N/A	8.5E-07	mg/kg-day	1.5E+00	mg/kg-day	5.7E-07
				Copper	3E+01	mg/kg	6.4E-08	mg/kg-day	N/A	N/A	N/A	6.4E-07	mg/kg-day	3.0E-02	mg/kg-day	2.1E-05
				Lead												
				Manganese	4E+02	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.1E-05	mg/kg-day	7.0E-02	mg/kg-day	1.5E-04
				Mercury	9E-02	mg/kg	2.3E-10	mg/kg-day	N/A	N/A	N/A	2.3E-09	mg/kg-day	1.0E-04	mg/kg-day	2.3E-05
				Nickel	1E+01	mg/kg	2.6E-08	mg/kg-day	N/A	N/A	N/A	2.6E-07	mg/kg-day	2.0E-02	mg/kg-day	1.3E-05
				Thallium	6E-01	mg/kg	1.6E-09	mg/kg-day	N/A	N/A	N/A	1.6E-08	mg/kg-day	8.0E-05	mg/kg-day	2.0E-04
				Vanadium	2E+01	mg/kg	4.8E-08	mg/kg-day	N/A	N/A	N/A	4.8E-07	mg/kg-day	1.0E-03	mg/kg-day	4.8E-04
				Zinc	1E+02	mg/kg	3.1E-07	mg/kg-day	N/A	N/A	N/A	3.1E-06	mg/kg-day	3.0E-01	mg/kg-day	1.0E-05
			Exp. Route Total								2E-08					1E-03
			Dermal													
				Benzo(a)anthracene	4E-01	mg/kg	2.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.7E-09	2.3E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	3E-01	mg/kg	1.8E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.3E-08	1.8E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	4E-01	mg/kg	1.9E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.4E-09	1.9E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	3E-01	mg/kg	1.3E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	9.8E-11	1.3E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	2E-01	mg/kg	9.1E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.7E-10	9.1E-09	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	7E-01	mg/kg	3.6E-09	mg/kg-day	N/A	N/A	N/A	3.6E-08	mg/kg-day	2.0E-02	mg/kg-day	1.8E-06
				Arsenic	8E+00	mg/kg	1.0E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.5E-08	1.0E-07	mg/kg-day	3.0E-04	mg/kg-day	3.3E-04
				Cadmium	2E-01	mg/kg	8.9E-11	mg/kg-day	N/A	N/A	N/A	8.9E-10	mg/kg-day	2.5E-05	mg/kg-day	3.6E-05
			Exp. Route Total								3E-08					4E-04
		Exposure Point Total									6E-08					2E-03

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station 03	Ingestion													
				Benzo(a)anthracene	6E-01	mg/kg	1.4E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.0E-09	1.4E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	5E-01	mg/kg	1.2E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	8.6E-09	1.2E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	6E-01	mg/kg	1.5E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.1E-09	1.5E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	3E-01	mg/kg	8.8E-10	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	6.4E-11	8.8E-09	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1E-01	mg/kg	2.8E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.0E-09	2.8E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	mg/kg	8.6E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.3E-10	8.6E-09	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	1.2E-09	mg/kg-day	N/A	N/A	N/A	1.2E-08	mg/kg-day	2.0E-02	mg/kg-day	5.9E-07
				Aroclor 1260	5E-02	mg/kg	1.3E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	1.3E-10	1.3E-09	mg/kg-day	2.0E-05	mg/kg-day	6.3E-05
				Antimony	8E-01	mg/kg	2.0E-09	mg/kg-day	N/A	N/A	N/A	2.0E-08	mg/kg-day	4.0E-04	mg/kg-day	5.1E-05
				Arsenic	3E+01	mg/kg	8.4E-08	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	6.5E-08	8.4E-07	mg/kg-day	5.9E-04	mg/kg-day	1.4E-03
				Barium	4E+01	mg/kg	8.9E-08	mg/kg-day	N/A	N/A	N/A	8.9E-07	mg/kg-day	7.0E-02	mg/kg-day	1.3E-05
				Cadmium	2E+00	mg/kg	4.4E-09	mg/kg-day	N/A	N/A	N/A	4.4E-08	mg/kg-day	1.0E-03	mg/kg-day	4.4E-05
				Chromium III	7E+01	mg/kg	1.9E-07	mg/kg-day	N/A	N/A	N/A	1.9E-06	mg/kg-day	1.5E+00	mg/kg-day	1.2E-06
				Copper	6E+01	mg/kg	1.6E-07	mg/kg-day	N/A	N/A	N/A	1.6E-06	mg/kg-day	3.0E-02	mg/kg-day	5.2E-05
				Lead												
				Manganese	2E+02	mg/kg	5.5E-07	mg/kg-day	N/A	N/A	N/A	5.5E-06	mg/kg-day	7.0E-02	mg/kg-day	7.8E-05
				Mercury	3E-01	mg/kg	6.7E-10	mg/kg-day	N/A	N/A	N/A	6.7E-09	mg/kg-day	1.0E-04	mg/kg-day	6.7E-05
				Nickel	1E+01	mg/kg	3.1E-08	mg/kg-day	N/A	N/A	N/A	3.1E-07	mg/kg-day	2.0E-02	mg/kg-day	1.6E-05
				Vanadium	2E+01	mg/kg	5.7E-08	mg/kg-day	N/A	N/A	N/A	5.7E-07	mg/kg-day	1.0E-03	mg/kg-day	5.7E-04
				Zinc	5E+02	mg/kg	1.3E-06	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								8E-08					2E-03
			Dermal													
				Benzo(a)anthracene	6E-01	mg/kg	3.0E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.2E-09	3.0E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	5E-01	mg/kg	2.5E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.8E-08	2.5E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	6E-01	mg/kg	3.2E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.3E-09	3.2E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	3E-01	mg/kg	1.8E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.3E-10	1.8E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1E-01	mg/kg	5.8E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.2E-09	5.8E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	mg/kg	1.8E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.3E-09	1.8E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	2.5E-09	mg/kg-day	N/A	N/A	N/A	2.5E-08	mg/kg-day	2.0E-02	mg/kg-day	1.2E-06
				Aroclor 1260	5E-02	mg/kg	2.8E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	2.8E-10	2.8E-09	mg/kg-day	2.0E-05	mg/kg-day	1.4E-04
				Arsenic	3E+01	mg/kg	4.0E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.0E-08	4.0E-07	mg/kg-day	3.0E-04	mg/kg-day	1.3E-03
				Cadmium	2E+00	mg/kg	7.1E-10	mg/kg-day	N/A	N/A	N/A	7.1E-09	mg/kg-day	2.5E-05	mg/kg-day	2.8E-04
			Exp. Route Total								9E-08					2E-03
		Exposure Point Total									2E-07					4E-03

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station 01	Ingestion													
				Benzo(a)anthracene	2E-01	mg/kg	4.9E-10	mg/kg-day	7.3E-01	$(mg/kg\text{-}day)^{-1}$	3.6E-10	4.9E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	4.4E-10	mg/kg-day	7.3E+00	$(mg/kg\text{-}day)^{-1}$	3.2E-09	4.4E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E-01	mg/kg	4.2E-10	mg/kg-day	7.3E-01	$(mg/kg\text{-}day)^{-1}$	3.1E-10	4.2E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E-01	mg/kg	4.5E-10	mg/kg-day	7.3E-02	$(mg/kg\text{-}day)^{-1}$	3.3E-11	4.5E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	3.1E-10	mg/kg-day	7.3E-01	$(mg/kg\text{-}day)^{-1}$	2.2E-10	3.1E-09	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	1.2E-09	mg/kg-day	N/A	N/A	N/A	1.2E-08	mg/kg-day	2.0E-02	mg/kg-day	5.9E-07
				Antimony	9E-01	mg/kg	2.2E-09	mg/kg-day	N/A	N/A	N/A	2.2E-08	mg/kg-day	4.0E-04	mg/kg-day	5.6E-05
				Arsenic	6E+00	mg/kg	1.6E-08	mg/kg-day	7.7E-01	$(mg/kg\text{-}day)^{-1}$	1.2E-08	1.6E-07	mg/kg-day	5.9E-04	mg/kg-day	2.7E-04
				Barium	1E+01	mg/kg	3.1E-08	mg/kg-day	N/A	N/A	N/A	3.1E-07	mg/kg-day	7.0E-02	mg/kg-day	4.5E-06
				Cadmium	2E-01	mg/kg	4.2E-10	mg/kg-day	N/A	N/A	N/A	4.2E-09	mg/kg-day	1.0E-03	mg/kg-day	4.2E-06
				Chromium III	8E+00	mg/kg	2.1E-08	mg/kg-day	N/A	N/A	N/A	2.1E-07	mg/kg-day	1.5E+00	mg/kg-day	1.4E-07
				Copper	1E+01	mg/kg	3.0E-08	mg/kg-day	N/A	N/A	N/A	3.0E-07	mg/kg-day	3.0E-02	mg/kg-day	9.9E-06
				Lead												
				Manganese	8E+01	mg/kg	2.1E-07	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	7.0E-02	mg/kg-day	3.0E-05
				Nickel	6E+00	mg/kg	1.6E-08	mg/kg-day	N/A	N/A	N/A	1.6E-07	mg/kg-day	2.0E-02	mg/kg-day	8.1E-06
				Thallium	5E-01	mg/kg	1.3E-09	mg/kg-day	N/A	N/A	N/A	1.3E-08	mg/kg-day	8.0E-05	mg/kg-day	1.6E-04
				Vanadium	1E+01	mg/kg	2.4E-08	mg/kg-day	N/A	N/A	N/A	2.4E-07	mg/kg-day	1.0E-03	mg/kg-day	2.4E-04
				Zinc	1E+02	mg/kg	2.6E-07	mg/kg-day	N/A	N/A	N/A	2.6E-06	mg/kg-day	3.0E-01	mg/kg-day	8.7E-06
			Exp. Route Total								2E-08					8E-04
			Dermal													
				Benzo(a)anthracene	2E-01	mg/kg	1.0E-09	mg/kg-day	7.3E-01	$(mg/kg\text{-}day)^{-1}$	7.4E-10	1.0E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	9.2E-10	mg/kg-day	7.3E+00	$(mg/kg\text{-}day)^{-1}$	6.7E-09	9.2E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E-01	mg/kg	8.7E-10	mg/kg-day	7.3E-01	$(mg/kg\text{-}day)^{-1}$	6.4E-10	8.7E-09	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E-01	mg/kg	9.3E-10	mg/kg-day	7.3E-02	$(mg/kg\text{-}day)^{-1}$	6.8E-11	9.3E-09	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	6.3E-10	mg/kg-day	7.3E-01	$(mg/kg\text{-}day)^{-1}$	4.6E-10	6.3E-09	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	2.4E-09	mg/kg-day	N/A	N/A	N/A	2.4E-08	mg/kg-day	2.0E-02	mg/kg-day	1.2E-06
				Arsenic	6E+00	mg/kg	7.5E-09	mg/kg-day	1.5E+00	$(mg/kg\text{-}day)^{-1}$	1.1E-08	7.5E-08	mg/kg-day	3.0E-04	mg/kg-day	2.5E-04
				Cadmium	2E-01	mg/kg	6.8E-11	mg/kg-day	N/A	N/A	N/A	6.8E-10	mg/kg-day	2.5E-05	mg/kg-day	2.7E-05
			Exp. Route Total								2E-08					3E-04
		Exposure Point Total									4E-08					1E-03
	Exposure Medium Total										N/A					N/A

TABLE 3-7.2.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Soil	Surface Soil	Station NR	Ingestion													
				Arsenic	2E+02	mg/kg	5.1E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	7.7E-07	5.1E-06	mg/kg-day	3.0E-04	mg/kg-day	1.7E-02
				Cadmium	2E+00	mg/kg	5.4E-09	mg/kg-day	N/A	N/A	N/A	5.4E-08	mg/kg-day	1.0E-03	mg/kg-day	5.4E-05
				Chromium VI	2E+02	mg/kg	4.4E-07	mg/kg-day	N/A	N/A	N/A	4.4E-06	mg/kg-day	3.0E-03	mg/kg-day	1.5E-03
				Copper	2E+02	mg/kg	4.4E-07	mg/kg-day	N/A	N/A	N/A	4.4E-06	mg/kg-day	3.0E-02	mg/kg-day	1.5E-04
				Manganese	3E+02	mg/kg	7.8E-07	mg/kg-day	N/A	N/A	N/A	7.8E-06	mg/kg-day	7.0E-02	mg/kg-day	1.1E-04
				Mercury	8E-01	mg/kg	2.0E-09	mg/kg-day	N/A	N/A	N/A	2.0E-08	mg/kg-day	1.0E-04	mg/kg-day	2.0E-04
				Vanadium	3E+01	mg/kg	6.4E-08	mg/kg-day	N/A	N/A	N/A	6.4E-07	mg/kg-day	1.0E-03	mg/kg-day	6.4E-04
				Zinc	5E+02	mg/kg	1.3E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	3.0E-01	mg/kg-day	4.5E-05
			Exp. Route Total								8E-07					2E-02
			Dermal													
				Arsenic	2E+02	mg/kg	2.4E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.7E-07	2.4E-06	mg/kg-day	3.0E-04	mg/kg-day	8.1E-03
				Cadmium	2E+00	mg/kg	8.7E-10	mg/kg-day	N/A	N/A	N/A	8.7E-09	mg/kg-day	2.5E-05	mg/kg-day	3.5E-04
			Exp. Route Total								4E-07					8E-03
		Exposure Point Total									1E-06					3E-02
		Station WS/WSS	Ingestion													
				Arsenic	1E+01	mg/kg	7.6E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.1E-07	7.6E-07	mg/kg-day	3.0E-04	mg/kg-day	2.5E-03
				Cadmium	2E-01	mg/kg	1.5E-09	mg/kg-day	N/A	N/A	N/A	1.5E-08	mg/kg-day	1.0E-03	mg/kg-day	1.5E-05
				Chromium VI	2E+01	mg/kg	1.4E-07	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	3.0E-03	mg/kg-day	4.7E-04
				Copper	3E+01	mg/kg	2.0E-07	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	3.0E-02	mg/kg-day	6.8E-05
				Manganese	2E+02	mg/kg	1.4E-06	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	7.0E-02	mg/kg-day	2.1E-04
				Mercury	1E-01	mg/kg	9.0E-10	mg/kg-day	N/A	N/A	N/A	9.0E-09	mg/kg-day	1.0E-04	mg/kg-day	9.0E-05
				Thallium	1E+00	mg/kg	9.1E-09	mg/kg-day	N/A	N/A	N/A	9.1E-08	mg/kg-day	8.0E-05	mg/kg-day	1.1E-03
				Vanadium	2E+01	mg/kg	1.8E-07	mg/kg-day	N/A	N/A	N/A	1.8E-06	mg/kg-day	1.0E-03	mg/kg-day	1.8E-03
				Zinc	7E+01	mg/kg	5.5E-07	mg/kg-day	N/A	N/A	N/A	5.5E-06	mg/kg-day	3.0E-01	mg/kg-day	1.8E-05
			Exp. Route Total								1E-07					6E-03
			Dermal													
				Arsenic	1E+01	mg/kg	3.7E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.5E-08	3.7E-07	mg/kg-day	3.0E-04	mg/kg-day	1.2E-03
				Cadmium	2E-01	mg/kg	2.4E-10	mg/kg-day	N/A	N/A	N/A	2.4E-09	mg/kg-day	2.5E-05	mg/kg-day	9.5E-05
			Exp. Route Total								5E-08					1E-03
		Exposure Point Total									2E-07					8E-03

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Soil (cont.)	Surface Soil (cont.)	Station CB-05	Ingestion													
				Arsenic	6E+01	mg/kg	4.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.8E-07	4.6E-06	mg/kg-day	3.0E-04	mg/kg-day	1.5E-02
				Cadmium	7E-01	mg/kg	5.2E-09	mg/kg-day	N/A	N/A	N/A	5.2E-08	mg/kg-day	1.0E-03	mg/kg-day	5.2E-05
				Chromium VI	1E+02	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.1E-05	mg/kg-day	3.0E-03	mg/kg-day	3.5E-03
				Copper	5E+01	mg/kg	3.8E-07	mg/kg-day	N/A	N/A	N/A	3.8E-06	mg/kg-day	3.0E-02	mg/kg-day	1.3E-04
				Manganese	2E+02	mg/kg	1.7E-06	mg/kg-day	N/A	N/A	N/A	1.7E-05	mg/kg-day	7.0E-02	mg/kg-day	2.5E-04
				Mercury	3E-01	mg/kg	2.2E-09	mg/kg-day	N/A	N/A	N/A	2.2E-08	mg/kg-day	1.0E-04	mg/kg-day	2.2E-04
				Thallium	2E+00	mg/kg	1.3E-08	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	3E+01	mg/kg	2.0E-07	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	1.0E-03	mg/kg-day	2.0E-03
				Zinc	2E+02	mg/kg	1.3E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	3.0E-01	mg/kg-day	4.2E-05
			Exp. Route Total								7E-07					2E-02
			Dermal													
				Arsenic	6E+01	mg/kg	2.2E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.3E-07	2.2E-06	mg/kg-day	3.0E-04	mg/kg-day	7.3E-03
				Cadmium	7E-01	mg/kg	8.3E-10	mg/kg-day	N/A	N/A	N/A	8.3E-09	mg/kg-day	2.5E-05	mg/kg-day	3.3E-04
			Exp. Route Total								3E-07					8E-03
		Exposure Point Total									1E-06					3E-02
		Station DA	Ingestion													
				Arsenic	2E+02	mg/kg	5.0E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	7.4E-07	5.0E-06	mg/kg-day	3.0E-04	mg/kg-day	1.7E-02
				Cadmium	1E+00	mg/kg	3.4E-09	mg/kg-day	N/A	N/A	N/A	3.4E-08	mg/kg-day	1.0E-03	mg/kg-day	3.4E-05
				Chromium VI	4E+02	mg/kg	9.9E-07	mg/kg-day	N/A	N/A	N/A	9.9E-06	mg/kg-day	3.0E-03	mg/kg-day	3.3E-03
				Copper	2E+02	mg/kg	6.3E-07	mg/kg-day	N/A	N/A	N/A	6.3E-06	mg/kg-day	3.0E-02	mg/kg-day	2.1E-04
				Manganese	8E+02	mg/kg	2.0E-06	mg/kg-day	N/A	N/A	N/A	2.0E-05	mg/kg-day	7.0E-02	mg/kg-day	2.9E-04
				Mercury	1E+00	mg/kg	3.0E-09	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	3E+00	mg/kg	8.5E-09	mg/kg-day	N/A	N/A	N/A	8.5E-08	mg/kg-day	8.0E-05	mg/kg-day	1.1E-03
				Vanadium	4E+01	mg/kg	9.6E-08	mg/kg-day	N/A	N/A	N/A	9.6E-07	mg/kg-day	1.0E-03	mg/kg-day	9.6E-04
				Zinc	6E+02	mg/kg	1.5E-06	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	3.0E-01	mg/kg-day	5.0E-05
			Exp. Route Total								7E-07					2E-02
			Dermal													
				Arsenic	2E+02	mg/kg	2.4E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.6E-07	2.4E-06	mg/kg-day	3.0E-04	mg/kg-day	7.9E-03
				Cadmium	1E+00	mg/kg	5.5E-10	mg/kg-day	N/A	N/A	N/A	5.5E-09	mg/kg-day	2.5E-05	mg/kg-day	2.2E-04
			Exp. Route Total								4E-07					8E-03
		Exposure Point Total									1E-06					3E-02

TABLE 3-7.2.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Soil (cont.)	Surface Soil (cont.)	Station KF	Ingestion													
				Arsenic	5E+01	mg/kg	1.2E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.7E-07	1.2E-06	mg/kg-day	3.0E-04	mg/kg-day	3.9E-03
				Cadmium	1E+00	mg/kg	3.6E-09	mg/kg-day	N/A	N/A	N/A	3.6E-08	mg/kg-day	1.0E-03	mg/kg-day	3.6E-05
				Chromium VI	1E+02	mg/kg	3.0E-07	mg/kg-day	N/A	N/A	N/A	3.0E-06	mg/kg-day	3.0E-03	mg/kg-day	1.0E-03
				Copper	1E+02	mg/kg	2.8E-07	mg/kg-day	N/A	N/A	N/A	2.8E-06	mg/kg-day	3.0E-02	mg/kg-day	9.2E-05
				Manganese	8E+02	mg/kg	2.1E-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	7E-01	mg/kg	1.8E-09	mg/kg-day	N/A	N/A	N/A	1.8E-08	mg/kg-day	1.0E-04	mg/kg-day	1.8E-04
				Vanadium	3E+01	mg/kg	7.4E-08	mg/kg-day	N/A	N/A	N/A	7.4E-07	mg/kg-day	1.0E-03	mg/kg-day	7.4E-04
				Zinc	4E+02	mg/kg	9.9E-07	mg/kg-day	N/A	N/A	N/A	9.9E-06	mg/kg-day	3.0E-01	mg/kg-day	3.3E-05
			Exp. Route Total								2E-07					6E-03
			Dermal													
				Arsenic	5E+01	mg/kg	5.6E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	8.4E-08	5.6E-07	mg/kg-day	3.0E-04	mg/kg-day	1.9E-03
				Cadmium	1E+00	mg/kg	5.7E-10	mg/kg-day	N/A	N/A	N/A	5.7E-09	mg/kg-day	2.5E-05	mg/kg-day	2.3E-04
			Exp. Route Total								8E-08					2E-03
		Exposure Point Total									3E-07					8E-03
		Station 07/DP	Ingestion													
				Arsenic	4E+01	mg/kg	1.1E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.7E-07	1.1E-06	mg/kg-day	3.0E-04	mg/kg-day	3.8E-03
				Cadmium	2E-01	mg/kg	4.8E-10	mg/kg-day	N/A	N/A	N/A	4.8E-09	mg/kg-day	1.0E-03	mg/kg-day	4.8E-06
				Chromium VI	1E+02	mg/kg	3.6E-07	mg/kg-day	N/A	N/A	N/A	3.6E-06	mg/kg-day	3.0E-03	mg/kg-day	1.2E-03
				Copper	1E+02	mg/kg	2.6E-07	mg/kg-day	N/A	N/A	N/A	2.6E-06	mg/kg-day	3.0E-02	mg/kg-day	8.6E-05
				Manganese	3E+02	mg/kg	8.4E-07	mg/kg-day	N/A	N/A	N/A	8.4E-06	mg/kg-day	7.0E-02	mg/kg-day	1.2E-04
				Mercury	1E+00	mg/kg	2.4E-09	mg/kg-day	N/A	N/A	N/A	2.4E-08	mg/kg-day	1.0E-04	mg/kg-day	2.4E-04
				Thallium	2E+00	mg/kg	4.8E-09	mg/kg-day	N/A	N/A	N/A	4.8E-08	mg/kg-day	8.0E-05	mg/kg-day	6.0E-04
				Vanadium	3E+01	mg/kg	8.0E-08	mg/kg-day	N/A	N/A	N/A	8.0E-07	mg/kg-day	1.0E-03	mg/kg-day	8.0E-04
				Zinc	2E+04	mg/kg	4.8E-05	mg/kg-day	N/A	N/A	N/A	4.8E-04	mg/kg-day	3.0E-01	mg/kg-day	1.6E-03
			Exp. Route Total								2E-07					8E-03
			Dermal													
				Arsenic	4E+01	mg/kg	5.4E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	8.1E-08	5.4E-07	mg/kg-day	3.0E-04	mg/kg-day	1.8E-03
				Cadmium	2E-01	mg/kg	7.7E-11	mg/kg-day	N/A	N/A	N/A	7.7E-10	mg/kg-day	2.5E-05	mg/kg-day	3.1E-05
			Exp. Route Total								8E-08					2E-03
		Exposure Point Total									3E-07					1E-02
	Exposure Medium Total										N/A					N/A

TABLE 3-7.2.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	Fish Fillet Tissue	Fillet, Reach 3	Ingestion													
				4,4'-DDD	7E-03	mg/kg	2.4E-08	mg/kg-day	2.4E-01	(mg/kg-day) $^{-1}$	5.7E-09	2.4E-07	mg/kg-day	2.0E-03	mg/kg-day	1.2E-04
				4,4'-DDE	2E-02	mg/kg	5.7E-08	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	1.9E-08	5.7E-07	mg/kg-day	3.0E-04	mg/kg-day	1.9E-03
				4,4'-DDT	3E-03	mg/kg	1.0E-08	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	3.4E-09	1.0E-07	mg/kg-day	5.0E-04	mg/kg-day	2.0E-04
				Aldrin	3E-04	mg/kg	1.1E-09	mg/kg-day	1.7E+01	(mg/kg-day) $^{-1}$	1.9E-08	1.1E-08	mg/kg-day	3.0E-05	mg/kg-day	3.8E-04
				alpha-Chlordane	6E-03	mg/kg	2.1E-08	mg/kg-day	3.5E-01	(mg/kg-day) $^{-1}$	7.2E-09	2.1E-07	mg/kg-day	5.0E-04	mg/kg-day	4.1E-04
				Aroclor-1254	2E-02	mg/kg	7.8E-08	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	7.8E-08	7.8E-07	mg/kg-day	2.0E-05	mg/kg-day	3.9E-02
				Aroclor-1260	6E-02	mg/kg	2.2E-07	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	2.2E-07	2.2E-06	mg/kg-day	2.0E-05	mg/kg-day	1.1E-01
				delta-BHC	5E-04	mg/kg	1.9E-09	mg/kg-day	N/A	N/A	N/A	1.9E-08	mg/kg-day	3.0E-04	mg/kg-day	6.4E-05
				Dieldrin	2E-03	mg/kg	7.9E-09	mg/kg-day	1.6E+01	(mg/kg-day) $^{-1}$	1.3E-07	7.9E-08	mg/kg-day	5.0E-05	mg/kg-day	1.6E-03
				Heptachlor epoxide	8E-04	mg/kg	3.0E-09	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	2.8E-08	3.0E-08	mg/kg-day	1.3E-05	mg/kg-day	2.3E-03
				Antimony	9E-02	mg/kg	3.4E-07	mg/kg-day	N/A	N/A	N/A	3.4E-06	mg/kg-day	4.0E-04	mg/kg-day	8.5E-03
				Lead												
				Mercury	4E-01	mg/kg	1.3E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	1.0E-04	mg/kg-day	1.3E-01
				Selenium	6E-01	mg/kg	2.0E-06	mg/kg-day	N/A	N/A	N/A	2.0E-05	mg/kg-day	5.0E-03	mg/kg-day	4.1E-03
			Exp. Route Total								5E-07					3E-01
		Exposure Point Total									5E-07					3E-01
		Fillet, Reaches 4 and 5	Ingestion													
				4,4'-DDD	2E-02	mg/kg	5.6E-08	mg/kg-day	2.4E-01	(mg/kg-day) $^{-1}$	1.4E-08	5.6E-07	mg/kg-day	2.0E-03	mg/kg-day	2.8E-04
				4,4'-DDE	9E-02	mg/kg	3.1E-07	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	1.0E-07	3.1E-06	mg/kg-day	3.0E-04	mg/kg-day	1.0E-02
				4,4'-DDT	8E-03	mg/kg	2.9E-08	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	9.8E-09	2.9E-07	mg/kg-day	5.0E-04	mg/kg-day	5.8E-04
				Aldrin	5E-04	mg/kg	1.9E-09	mg/kg-day	1.7E+01	(mg/kg-day) $^{-1}$	3.2E-08	1.9E-08	mg/kg-day	3.0E-05	mg/kg-day	6.3E-04
				alpha-Chlordane	3E-03	mg/kg	9.1E-09	mg/kg-day	3.5E-01	(mg/kg-day) $^{-1}$	3.2E-09	9.1E-08	mg/kg-day	5.0E-04	mg/kg-day	1.8E-04
				Aroclor-1254	9E-02	mg/kg	3.1E-07	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	3.1E-07	3.1E-06	mg/kg-day	2.0E-05	mg/kg-day	1.5E-01
				Aroclor-1260	2E-01	mg/kg	6.7E-07	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	6.7E-07	6.7E-06	mg/kg-day	2.0E-05	mg/kg-day	3.4E-01
				Dieldrin	1E-03	mg/kg	5.3E-09	mg/kg-day	1.6E+01	(mg/kg-day) $^{-1}$	8.4E-08	5.3E-08	mg/kg-day	5.0E-05	mg/kg-day	1.1E-03
				Antimony	8E-02	mg/kg	2.7E-07	mg/kg-day	N/A	N/A	N/A	2.7E-06	mg/kg-day	4.0E-04	mg/kg-day	6.8E-03
				Lead												
				Mercury	3E-01	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.1E-05	mg/kg-day	1.0E-04	mg/kg-day	1.1E-01
				Selenium	7E-01	mg/kg	2.4E-06	mg/kg-day	N/A	N/A	N/A	2.4E-05	mg/kg-day	5.0E-03	mg/kg-day	4.8E-03
			Exp. Route Total								1E-06					6E-01
		Exposure Point Total									1E-06					6E-01

TABLE 3-7.2.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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 (cont.)	Fish Fillet Tissue (cont.)	Fillet, Reach 6	Ingestion													
				4,4'-DDD	2E-02	mg/kg	7.1E-08	mg/kg-day	2.4E-01	(mg/kg-day) $^{-1}$	1.7E-08	7.1E-07	mg/kg-day	2.0E-03	mg/kg-day	3.6E-04
				4,4'-DDE	6E-02	mg/kg	2.1E-07	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	7.1E-08	2.1E-06	mg/kg-day	3.0E-04	mg/kg-day	6.9E-03
				4,4'-DDT	5E-03	mg/kg	1.7E-08	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	5.7E-09	1.7E-07	mg/kg-day	5.0E-04	mg/kg-day	3.3E-04
				Aldrin	5E-04	mg/kg	1.9E-09	mg/kg-day	1.7E+01	(mg/kg-day) $^{-1}$	3.2E-08	1.9E-08	mg/kg-day	3.0E-05	mg/kg-day	6.3E-04
				alpha-Chlordane	8E-03	mg/kg	3.0E-08	mg/kg-day	3.5E-01	(mg/kg-day) $^{-1}$	1.0E-08	3.0E-07	mg/kg-day	5.0E-04	mg/kg-day	6.0E-04
				Aroclor-1248	8E-03	mg/kg	2.8E-08	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	2.8E-08	2.8E-07	mg/kg-day	2.0E-05	mg/kg-day	1.4E-02
				Aroclor-1254	1E-01	mg/kg	4.6E-07	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	4.6E-07	4.6E-06	mg/kg-day	2.0E-05	mg/kg-day	2.3E-01
				Aroclor-1260	8E-02	mg/kg	2.8E-07	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	2.8E-07	2.8E-06	mg/kg-day	2.0E-05	mg/kg-day	1.4E-01
				Dieldrin	2E-03	mg/kg	7.6E-09	mg/kg-day	1.6E+01	(mg/kg-day) $^{-1}$	1.2E-07	7.6E-08	mg/kg-day	5.0E-05	mg/kg-day	1.5E-03
				Heptachlor epoxide	5E-04	mg/kg	1.9E-09	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	1.7E-08	1.9E-08	mg/kg-day	1.3E-05	mg/kg-day	1.5E-03
				Arsenic	2E-01	mg/kg	5.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	8.4E-07	5.6E-06	mg/kg-day	3.0E-04	mg/kg-day	1.9E-02
				Lead												
				Mercury	1E-01	mg/kg	5.2E-07	mg/kg-day	N/A	N/A	N/A	5.2E-06	mg/kg-day	1.0E-04	mg/kg-day	5.2E-02
				Selenium	6E-01	mg/kg	2.2E-06	mg/kg-day	N/A	N/A	N/A	2.2E-05	mg/kg-day	5.0E-03	mg/kg-day	4.5E-03
			Exp. Route Total								2E-06					5E-01
		Exposure Point Total									2E-06					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 3-7.3.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	Surface Water	Station NR (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	1.5E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	1.4E-09	1.7E-09	mg/kg-day	1.3E-05	mg/kg-day	1.3E-04
				Arsenic	5E+01	ug/L	5.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	7.9E-08	6.2E-07	mg/kg-day	3.0E-04	mg/kg-day	2.1E-03
				Cadmium	3E+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
				Chromium VI	6E+01	ug/L	1.3E-07	mg/kg-day	N/A	N/A	N/A	1.6E-06	mg/kg-day	7.5E-05	mg/kg-day	2.1E-02
				Lead												
				Manganese	6E+02	ug/L	6.6E-07	mg/kg-day	N/A	N/A	N/A	7.7E-06	mg/kg-day	2.8E-03	mg/kg-day	2.8E-03
				Mercury	6E-01	ug/L	6.9E-10	mg/kg-day	N/A	N/A	N/A	8.1E-09	mg/kg-day	2.1E-05	mg/kg-day	3.9E-04
			Exp. Route Total								8E-08					3E-02
		Exposure Point Total									8E-08					3E-02
		Station 14 (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	1.5E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	1.4E-09	1.7E-09	mg/kg-day	1.3E-05	mg/kg-day	1.3E-04
				Arsenic	5E+01	ug/L	5.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	7.9E-08	6.2E-07	mg/kg-day	3.0E-04	mg/kg-day	2.1E-03
				Cadmium	3E+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
				Chromium VI	6E+01	ug/L	1.3E-07	mg/kg-day	N/A	N/A	N/A	1.6E-06	mg/kg-day	7.5E-05	mg/kg-day	2.1E-02
				Lead												
				Manganese	6E+02	ug/L	6.6E-07	mg/kg-day	N/A	N/A	N/A	7.7E-06	mg/kg-day	2.8E-03	mg/kg-day	2.8E-03
				Mercury	6E-01	ug/L	6.9E-10	mg/kg-day	N/A	N/A	N/A	8.1E-09	mg/kg-day	2.1E-05	mg/kg-day	3.9E-04
			Exp. Route Total								8E-08					3E-02
		Exposure Point Total									8E-08					3E-02
		Station 22/11-22 (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	1.5E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	1.4E-09	1.7E-09	mg/kg-day	1.3E-05	mg/kg-day	1.3E-04
				Arsenic	5E+01	ug/L	5.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	7.9E-08	6.2E-07	mg/kg-day	3.0E-04	mg/kg-day	2.1E-03
				Cadmium	3E+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
				Chromium VI	6E+01	ug/L	1.3E-07	mg/kg-day	N/A	N/A	N/A	1.6E-06	mg/kg-day	7.5E-05	mg/kg-day	2.1E-02
				Lead												
				Manganese	6E+02	ug/L	6.6E-07	mg/kg-day	N/A	N/A	N/A	7.7E-06	mg/kg-day	2.8E-03	mg/kg-day	2.8E-03
				Mercury	6E-01	ug/L	6.9E-10	mg/kg-day	N/A	N/A	N/A	8.1E-09	mg/kg-day	2.1E-05	mg/kg-day	3.9E-04
			Exp. Route Total								8E-08					3E-02
		Exposure Point Total									8E-08					3E-02

TABLE 3-7.3.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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 (cont.)	Surface Water (cont.)	Station WH (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	1.5E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	1.4E-09	1.7E-09	mg/kg-day	1.3E-05	mg/kg-day	1.3E-04
				Arsenic	5E+01	ug/L	5.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	7.9E-08	6.2E-07	mg/kg-day	3.0E-04	mg/kg-day	2.1E-03
				Cadmium	3E+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
				Chromium VI	6E+01	ug/L	1.3E-07	mg/kg-day	N/A	N/A	N/A	1.6E-06	mg/kg-day	7.5E-05	mg/kg-day	2.1E-02
				Lead												
				Manganese	6E+02	ug/L	6.6E-07	mg/kg-day	N/A	N/A	N/A	7.7E-06	mg/kg-day	2.8E-03	mg/kg-day	2.8E-03
				Mercury	6E-01	ug/L	6.9E-10	mg/kg-day	N/A	N/A	N/A	8.1E-09	mg/kg-day	2.1E-05	mg/kg-day	3.9E-04
			Exp. Route Total								6E-08					3E-02
		Exposure Point Total									6E-08					3E-02
		Station WG (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	1.5E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	1.4E-09	1.7E-09	mg/kg-day	1.3E-05	mg/kg-day	1.3E-04
				Arsenic	5E+01	ug/L	5.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	7.9E-08	6.2E-07	mg/kg-day	3.0E-04	mg/kg-day	2.1E-03
				Cadmium	3E+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
				Chromium VI	6E+01	ug/L	1.3E-07	mg/kg-day	N/A	N/A	N/A	1.6E-06	mg/kg-day	7.5E-05	mg/kg-day	2.1E-02
				Lead												
				Manganese	6E+02	ug/L	6.6E-07	mg/kg-day	N/A	N/A	N/A	7.7E-06	mg/kg-day	2.8E-03	mg/kg-day	2.8E-03
				Mercury	6E-01	ug/L	6.9E-10	mg/kg-day	N/A	N/A	N/A	8.1E-09	mg/kg-day	2.1E-05	mg/kg-day	3.9E-04
			Exp. Route Total								6E-08					3E-02
		Exposure Point Total									6E-08					3E-02
		Station WS/WSS (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	5.9E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	5.4E-09	6.9E-09	mg/kg-day	1.3E-05	mg/kg-day	5.3E-04
				Arsenic	5E+01	ug/L	2.1E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.2E-07	2.5E-06	mg/kg-day	3.0E-04	mg/kg-day	8.2E-03
				Cadmium	3E+00	ug/L	1.1E-08	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	2.5E-05	mg/kg-day	5.3E-03
				Chromium VI	6E+01	ug/L	5.4E-07	mg/kg-day	N/A	N/A	N/A	6.3E-06	mg/kg-day	7.5E-05	mg/kg-day	8.3E-02
				Lead												
				Manganese	6E+02	ug/L	2.6E-06	mg/kg-day	N/A	N/A	N/A	3.1E-05	mg/kg-day	2.8E-03	mg/kg-day	1.1E-02
				Mercury	6E-01	ug/L	2.8E-09	mg/kg-day	N/A	N/A	N/A	3.2E-08	mg/kg-day	2.1E-05	mg/kg-day	1.5E-03
			Exp. Route Total								3E-07					1E-01
		Exposure Point Total									3E-07					1E-01

TABLE 3-7.3.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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 (cont.)	Surface Water (cont.)	Station TT-30 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	5.8E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	2.3E-08	6.8E-07	mg/kg-day	3.0E-04	mg/kg-day	2.3E-03
				Arsenic	2E+01	ug/L	2.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.4E-08	2.6E-07	mg/kg-day	3.0E-04	mg/kg-day	8.8E-04
				Cadmium	2E-01	ug/L	2.6E-10	mg/kg-day	N/A	N/A	N/A	3.1E-09	mg/kg-day	2.5E-05	mg/kg-day	1.2E-04
				Chromium VI	1E+01	ug/L	2.8E-08	mg/kg-day	N/A	N/A	N/A	3.2E-07	mg/kg-day	7.5E-05	mg/kg-day	4.3E-03
				Lead												
				Manganese	8E+02	ug/L	8.9E-07	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	2.8E-03	mg/kg-day	3.7E-03
				Mercury	1E-01	ug/L	1.7E-10	mg/kg-day	N/A	N/A	N/A	2.0E-09	mg/kg-day	2.1E-05	mg/kg-day	9.3E-05
			Exp. Route Total								6E-08					1E-02
		Exposure Point Total									6E-08					1E-02
		Station CB-01 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	2.3E-07	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	9.3E-08	2.7E-06	mg/kg-day	3.0E-04	mg/kg-day	9.0E-03
				Arsenic	2E+01	ug/L	9.0E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.4E-07	1.1E-06	mg/kg-day	3.0E-04	mg/kg-day	3.5E-03
				Cadmium	2E-01	ug/L	1.0E-09	mg/kg-day	N/A	N/A	N/A	1.2E-08	mg/kg-day	2.5E-05	mg/kg-day	4.9E-04
				Chromium VI	1E+01	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	7.5E-05	mg/kg-day	1.7E-02
				Lead												
				Manganese	8E+02	ug/L	3.5E-06	mg/kg-day	N/A	N/A	N/A	4.1E-05	mg/kg-day	2.8E-03	mg/kg-day	1.5E-02
				Mercury	1E-01	ug/L	6.7E-10	mg/kg-day	N/A	N/A	N/A	7.8E-09	mg/kg-day	2.1E-05	mg/kg-day	3.7E-04
			Exp. Route Total								2E-07					5E-02
		Exposure Point Total									2E-07					5E-02
		Station CB-02 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	2.3E-07	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	9.3E-08	2.7E-06	mg/kg-day	3.0E-04	mg/kg-day	9.0E-03
				Arsenic	2E+01	ug/L	9.0E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.4E-07	1.1E-06	mg/kg-day	3.0E-04	mg/kg-day	3.5E-03
				Cadmium	2E-01	ug/L	1.0E-09	mg/kg-day	N/A	N/A	N/A	1.2E-08	mg/kg-day	2.5E-05	mg/kg-day	4.9E-04
				Chromium VI	1E+01	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	7.5E-05	mg/kg-day	1.7E-02
				Lead												
				Manganese	8E+02	ug/L	3.5E-06	mg/kg-day	N/A	N/A	N/A	4.1E-05	mg/kg-day	2.8E-03	mg/kg-day	1.5E-02
				Mercury	1E-01	ug/L	6.7E-10	mg/kg-day	N/A	N/A	N/A	7.8E-09	mg/kg-day	2.1E-05	mg/kg-day	3.7E-04
			Exp. Route Total								2E-07					5E-02
		Exposure Point Total									2E-07					5E-02

TABLE 3-7.3.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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 (cont.)	Surface Water (cont.)	Station CB-03 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	2.3E-07	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	9.3E-08	2.7E-06	mg/kg-day	3.0E-04	mg/kg-day	9.0E-03
				Arsenic	2E+01	ug/L	9.0E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.4E-07	1.1E-06	mg/kg-day	3.0E-04	mg/kg-day	3.5E-03
				Cadmium	2E-01	ug/L	1.0E-09	mg/kg-day	N/A	N/A	N/A	1.2E-08	mg/kg-day	2.5E-05	mg/kg-day	4.9E-04
				Chromium VI	1E+01	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	7.5E-05	mg/kg-day	1.7E-02
				Lead												
				Manganese	8E+02	ug/L	3.5E-06	mg/kg-day	N/A	N/A	N/A	4.1E-05	mg/kg-day	2.8E-03	mg/kg-day	1.5E-02
				Mercury	1E-01	ug/L	6.7E-10	mg/kg-day	N/A	N/A	N/A	7.8E-09	mg/kg-day	2.1E-05	mg/kg-day	3.7E-04
			Exp. Route Total								2E-07					5E-02
		Exposure Point Total									2E-07					5E-02
		Station CB-04 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	2.3E-07	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	9.3E-08	2.7E-06	mg/kg-day	3.0E-04	mg/kg-day	9.0E-03
				Arsenic	2E+01	ug/L	9.0E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.4E-07	1.1E-06	mg/kg-day	3.0E-04	mg/kg-day	3.5E-03
				Cadmium	2E-01	ug/L	1.0E-09	mg/kg-day	N/A	N/A	N/A	1.2E-08	mg/kg-day	2.5E-05	mg/kg-day	4.9E-04
				Chromium VI	1E+01	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	7.5E-05	mg/kg-day	1.7E-02
				Lead												
				Manganese	8E+02	ug/L	3.5E-06	mg/kg-day	N/A	N/A	N/A	4.1E-05	mg/kg-day	2.8E-03	mg/kg-day	1.5E-02
				Mercury	1E-01	ug/L	6.7E-10	mg/kg-day	N/A	N/A	N/A	7.8E-09	mg/kg-day	2.1E-05	mg/kg-day	3.7E-04
			Exp. Route Total								2E-07					5E-02
		Exposure Point Total									2E-07					5E-02
		Station CB-06 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	2.3E-07	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	9.3E-08	2.7E-06	mg/kg-day	3.0E-04	mg/kg-day	9.0E-03
				Arsenic	2E+01	ug/L	9.0E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.4E-07	1.1E-06	mg/kg-day	3.0E-04	mg/kg-day	3.5E-03
				Cadmium	2E-01	ug/L	1.0E-09	mg/kg-day	N/A	N/A	N/A	1.2E-08	mg/kg-day	2.5E-05	mg/kg-day	4.9E-04
				Chromium VI	1E+01	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	7.5E-05	mg/kg-day	1.7E-02
				Lead												
				Manganese	8E+02	ug/L	3.5E-06	mg/kg-day	N/A	N/A	N/A	4.1E-05	mg/kg-day	2.8E-03	mg/kg-day	1.5E-02
				Mercury	1E-01	ug/L	6.7E-10	mg/kg-day	N/A	N/A	N/A	7.8E-09	mg/kg-day	2.1E-05	mg/kg-day	3.7E-04
			Exp. Route Total								2E-07					5E-02
		Exposure Point Total									2E-07					5E-02

TABLE 3-7.3.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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 (cont.)	Surface Water (cont.)	Station CB-07 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	5.8E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	2.3E-08	6.8E-07	mg/kg-day	3.0E-04	mg/kg-day	2.3E-03
				Arsenic	2E+01	ug/L	2.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.4E-08	2.6E-07	mg/kg-day	3.0E-04	mg/kg-day	8.8E-04
				Cadmium	2E-01	ug/L	2.6E-10	mg/kg-day	N/A	N/A	N/A	3.1E-09	mg/kg-day	2.5E-05	mg/kg-day	1.2E-04
				Chromium VI	1E+01	ug/L	2.8E-08	mg/kg-day	N/A	N/A	N/A	3.2E-07	mg/kg-day	7.5E-05	mg/kg-day	4.3E-03
				Lead												
				Manganese	8E+02	ug/L	8.9E-07	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	2.8E-03	mg/kg-day	3.7E-03
				Mercury	1E-01	ug/L	1.7E-10	mg/kg-day	N/A	N/A	N/A	2.0E-09	mg/kg-day	2.1E-05	mg/kg-day	9.3E-05
			Exp. Route Total								6E-08					1E-02
		Exposure Point Total									6E-08					1E-02
		Station 16/TT-33 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	1.7E-07	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	7.0E-08	2.0E-06	mg/kg-day	3.0E-04	mg/kg-day	6.8E-03
				Arsenic	2E+01	ug/L	6.8E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.0E-07	7.9E-07	mg/kg-day	3.0E-04	mg/kg-day	2.6E-03
				Cadmium	2E-01	ug/L	7.9E-10	mg/kg-day	N/A	N/A	N/A	9.2E-09	mg/kg-day	2.5E-05	mg/kg-day	3.7E-04
				Chromium VI	1E+01	ug/L	8.3E-08	mg/kg-day	N/A	N/A	N/A	9.7E-07	mg/kg-day	7.5E-05	mg/kg-day	1.3E-02
				Lead												
				Manganese	8E+02	ug/L	2.7E-06	mg/kg-day	N/A	N/A	N/A	3.1E-05	mg/kg-day	2.8E-03	mg/kg-day	1.1E-02
				Mercury	1E-01	ug/L	5.0E-10	mg/kg-day	N/A	N/A	N/A	5.9E-09	mg/kg-day	2.1E-05	mg/kg-day	2.8E-04
			Exp. Route Total								2E-07					3E-02
		Exposure Point Total									2E-07					3E-02
		Station 09 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	1.7E-07	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	7.0E-08	2.0E-06	mg/kg-day	3.0E-04	mg/kg-day	6.8E-03
				Arsenic	2E+01	ug/L	6.8E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.0E-07	7.9E-07	mg/kg-day	3.0E-04	mg/kg-day	2.6E-03
				Cadmium	2E-01	ug/L	7.9E-10	mg/kg-day	N/A	N/A	N/A	9.2E-09	mg/kg-day	2.5E-05	mg/kg-day	3.7E-04
				Chromium VI	1E+01	ug/L	8.3E-08	mg/kg-day	N/A	N/A	N/A	9.7E-07	mg/kg-day	7.5E-05	mg/kg-day	1.3E-02
				Lead												
				Manganese	8E+02	ug/L	2.7E-06	mg/kg-day	N/A	N/A	N/A	3.1E-05	mg/kg-day	2.8E-03	mg/kg-day	1.1E-02
				Mercury	1E-01	ug/L	5.0E-10	mg/kg-day	N/A	N/A	N/A	5.9E-09	mg/kg-day	2.1E-05	mg/kg-day	2.8E-04
			Exp. Route Total								2E-07					3E-02
		Exposure Point Total									2E-07					3E-02

TABLE 3-7.3.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE 003

Scenario Timeframe: Current
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 (cont.)	Surface Water (cont.)	Station DA (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	1.7E-07	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	7.0E-08	2.0E-06	mg/kg-day	3.0E-04	mg/kg-day	6.8E-03
				Arsenic	2E+01	ug/L	6.8E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.0E-07	7.9E-07	mg/kg-day	3.0E-04	mg/kg-day	2.6E-03
				Cadmium	2E-01	ug/L	7.9E-10	mg/kg-day	N/A	N/A	N/A	9.2E-09	mg/kg-day	2.5E-05	mg/kg-day	3.7E-04
				Chromium VI	1E+01	ug/L	8.3E-08	mg/kg-day	N/A	N/A	N/A	9.7E-07	mg/kg-day	7.5E-05	mg/kg-day	1.3E-02
				Lead												
				Manganese	8E+02	ug/L	2.7E-06	mg/kg-day	N/A	N/A	N/A	3.1E-05	mg/kg-day	2.8E-03	mg/kg-day	1.1E-02
				Mercury	1E-01	ug/L	5.0E-10	mg/kg-day	N/A	N/A	N/A	5.9E-09	mg/kg-day	2.1E-05	mg/kg-day	2.8E-04
			Exp. Route Total								2E-07					3E-02
		Exposure Point Total									2E-07					3E-02
		Station AM (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	5.8E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	2.3E-08	6.8E-07	mg/kg-day	3.0E-04	mg/kg-day	2.3E-03
				Arsenic	2E+01	ug/L	2.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.4E-08	2.6E-07	mg/kg-day	3.0E-04	mg/kg-day	8.8E-04
				Cadmium	2E-01	ug/L	2.6E-10	mg/kg-day	N/A	N/A	N/A	3.1E-09	mg/kg-day	2.5E-05	mg/kg-day	1.2E-04
				Chromium VI	1E+01	ug/L	2.8E-08	mg/kg-day	N/A	N/A	N/A	3.2E-07	mg/kg-day	7.5E-05	mg/kg-day	4.3E-03
				Lead												
				Manganese	8E+02	ug/L	8.9E-07	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	2.8E-03	mg/kg-day	3.7E-03
				Mercury	1E-01	ug/L	1.7E-10	mg/kg-day	N/A	N/A	N/A	2.0E-09	mg/kg-day	2.1E-05	mg/kg-day	9.3E-05
			Exp. Route Total								6E-08					1E-02
		Exposure Point Total									6E-08					1E-02
		Station KF (Lower Reach 2)	Dermal	Arsenic	7E+00	ug/L	2.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.5E-08	2.7E-07	mg/kg-day	3.0E-04	mg/kg-day	9.0E-04
				Chromium VI	2E+00	ug/L	1.5E-08	mg/kg-day	N/A	N/A	N/A	1.8E-07	mg/kg-day	7.5E-05	mg/kg-day	2.3E-03
				Manganese	4E+02	ug/L	1.2E-06	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	2.8E-03	mg/kg-day	5.1E-03
			Exp. Route Total								3E-08					8E-03
		Exposure Point Total									3E-08					8E-03
		Station 08 (Lower Reach 2)	Dermal	Arsenic	7E+00	ug/L	2.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.5E-08	2.7E-07	mg/kg-day	3.0E-04	mg/kg-day	9.0E-04
				Chromium VI	2E+00	ug/L	1.5E-08	mg/kg-day	N/A	N/A	N/A	1.8E-07	mg/kg-day	7.5E-05	mg/kg-day	2.3E-03
				Manganese	4E+02	ug/L	1.2E-06	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	2.8E-03	mg/kg-day	5.1E-03
			Exp. Route Total								3E-08					8E-03
		Exposure Point Total									3E-08					8E-03

TABLE 3-7.3.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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 (cont.)	Surface Water (cont.)	Station 07/DP (Reach 3)	Dermal	Chromium VI	3E+00	ug/L	2.1E-08	mg/kg-day	N/A	N/A	N/A	2.5E-07	mg/kg-day	7.5E-05	mg/kg-day	3.3E-03
				Lead												
				Manganese	6E+02	ug/L	2.0E-06	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	2.8E-03	mg/kg-day	8.3E-03
				Mercury	2E-01	ug/L	7.5E-10	mg/kg-day	N/A	N/A	N/A	8.8E-09	mg/kg-day	2.1E-05	mg/kg-day	4.2E-04
			Exp. Route Total								N/A					1E-02
		Exposure Point Total									N/A					1E-02
		Station LP (Reach 3)	Dermal	Chromium VI	3E+00	ug/L	2.1E-08	mg/kg-day	N/A	N/A	N/A	2.5E-07	mg/kg-day	7.5E-05	mg/kg-day	3.3E-03
				Lead												
				Manganese	6E+02	ug/L	2.0E-06	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	2.8E-03	mg/kg-day	8.3E-03
				Mercury	2E-01	ug/L	7.5E-10	mg/kg-day	N/A	N/A	N/A	8.8E-09	mg/kg-day	2.1E-05	mg/kg-day	4.2E-04
			Exp. Route Total								N/A					1E-02
		Exposure Point Total									N/A					1E-02
		Station AS (Reach 3)	Dermal	Chromium VI	3E+00	ug/L	7.1E-09	mg/kg-day	N/A	N/A	N/A	8.2E-08	mg/kg-day	7.5E-05	mg/kg-day	1.1E-03
				Lead												
				Manganese	6E+02	ug/L	6.7E-07	mg/kg-day	N/A	N/A	N/A	7.8E-06	mg/kg-day	2.8E-03	mg/kg-day	2.8E-03
				Mercury	2E-01	ug/L	2.5E-10	mg/kg-day	N/A	N/A	N/A	2.9E-09	mg/kg-day	2.1E-05	mg/kg-day	1.4E-04
			Exp. Route Total								N/A					4E-03
		Exposure Point Total									N/A					4E-03
		Station 06 (Reach 4)	Dermal	Chromium VI	4E+00	ug/L	2.9E-08	mg/kg-day	N/A	N/A	N/A	3.4E-07	mg/kg-day	7.5E-05	mg/kg-day	4.6E-03
				Lead												
				Manganese	5E+02	ug/L	1.7E-06	mg/kg-day	N/A	N/A	N/A	2.0E-05	mg/kg-day	2.8E-03	mg/kg-day	7.2E-03
			Exp. Route Total								N/A					1E-02
		Exposure Point Total									N/A					1E-02
		Station 05 (Reach 5)	Dermal	Chloroform	1E+00	ug/L	4.5E-08	mg/kg-day	N/A	N/A	N/A	5.2E-07	mg/kg-day	1.0E-02	mg/kg-day	5.2E-05
				Tetrachloroethene	2E+00	ug/L	5.9E-07	mg/kg-day	5.4E-01	(mg/kg-day) $^{-1}$	3.2E-07	6.9E-06	mg/kg-day	1.0E-02	mg/kg-day	6.9E-04
				Chromium VI	9E-01	ug/L	5.8E-09	mg/kg-day	N/A	N/A	N/A	6.8E-08	mg/kg-day	7.5E-05	mg/kg-day	9.0E-04
				Manganese	3E+02	ug/L	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	2.8E-03	mg/kg-day	4.6E-03
			Exp. Route Total								3E-07					6E-03
		Exposure Point Total									3E-07					6E-03

TABLE 3-7.3.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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 (cont.)	Surface Water (cont.)	Station 04 (Upper Reach 6)	Dermal	Arsenic	5E+00	ug/L	1.8E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.7E-08	2.1E-07	mg/kg-day	3.0E-04	mg/kg-day	6.9E-04
				Chromium VI	4E+00	ug/L	2.5E-08	mg/kg-day	N/A	N/A	N/A	3.0E-07	mg/kg-day	7.5E-05	mg/kg-day	3.9E-03
				Lead												
				Manganese	3E+02	ug/L	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	2.8E-03	mg/kg-day	4.5E-03
				Mercury	7E-02	ug/L	2.4E-10	mg/kg-day	N/A	N/A	N/A	2.8E-09	mg/kg-day	2.1E-05	mg/kg-day	1.3E-04
			Exp. Route Total								3E-08					9E-03
		Exposure Point Total									3E-08					9E-03
		Station 03 (Upper Reach 6)	Dermal	Arsenic	5E+00	ug/L	1.8E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.7E-08	2.1E-07	mg/kg-day	3.0E-04	mg/kg-day	6.9E-04
				Chromium VI	4E+00	ug/L	2.5E-08	mg/kg-day	N/A	N/A	N/A	3.0E-07	mg/kg-day	7.5E-05	mg/kg-day	3.9E-03
				Lead												
				Manganese	3E+02	ug/L	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	2.8E-03	mg/kg-day	4.5E-03
				Mercury	7E-02	ug/L	2.4E-10	mg/kg-day	N/A	N/A	N/A	2.8E-09	mg/kg-day	2.1E-05	mg/kg-day	1.3E-04
			Exp. Route Total								3E-08					9E-03
		Exposure Point Total									3E-08					9E-03
		Station 02 (Upper Reach 6)	Dermal	Arsenic	5E+00	ug/L	1.8E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.7E-08	2.1E-07	mg/kg-day	3.0E-04	mg/kg-day	6.9E-04
				Chromium VI	4E+00	ug/L	2.5E-08	mg/kg-day	N/A	N/A	N/A	3.0E-07	mg/kg-day	7.5E-05	mg/kg-day	3.9E-03
				Lead												
				Manganese	3E+02	ug/L	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	2.8E-03	mg/kg-day	4.5E-03
				Mercury	7E-02	ug/L	2.4E-10	mg/kg-day	N/A	N/A	N/A	2.8E-09	mg/kg-day	2.1E-05	mg/kg-day	1.3E-04
			Exp. Route Total								3E-08					9E-03
		Exposure Point Total									3E-08					9E-03

TABLE 3-7.3.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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 (cont.)	Surface Water (cont.)	Station 01 (Lower Reach 6)	Ingestion													
				Arsenic	3E+00	ug/L	9.5E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.4E-07	1.1E-06	mg/kg-day	3.0E-04	mg/kg-day	3.7E-03
				Chromium VI	2E+00	ug/L	4.6E-08	mg/kg-day	N/A	N/A	N/A	5.3E-07	mg/kg-day	3.0E-03	mg/kg-day	1.8E-04
				Lead												
				Manganese	7E+01	ug/L	2.2E-06	mg/kg-day	N/A	N/A	N/A	2.5E-05	mg/kg-day	7.0E-02	mg/kg-day	3.6E-04
				Mercury	4E-02	ug/L	1.2E-09	mg/kg-day	N/A	N/A	N/A	1.4E-08	mg/kg-day	3.0E-04	mg/kg-day	4.7E-05
			Exp. Route Total								1E-07					4E-03
			Dermal													
				Arsenic	3E+00	ug/L	1.2E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.9E-08	1.5E-07	mg/kg-day	3.0E-04	mg/kg-day	4.9E-04
				Chromium VI	2E+00	ug/L	1.2E-08	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	7.5E-05	mg/kg-day	1.9E-03
				Lead												
				Manganese	7E+01	ug/L	2.9E-07	mg/kg-day	N/A	N/A	N/A	3.3E-06	mg/kg-day	2.8E-03	mg/kg-day	1.2E-03
				Mercury	4E-02	ug/L	1.6E-10	mg/kg-day	N/A	N/A	N/A	1.9E-09	mg/kg-day	2.1E-05	mg/kg-day	9.0E-05
			Exp. Route Total								2E-08					4E-03
		Exposure Point Total									2E-07					8E-03
	Exposure Medium Total										N/A					N/A
Sediment	Sediment	Station NR	Ingestion													
				Arsenic	2E+02	mg/kg	8.7E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	6.7E-06	1.0E-04	mg/kg-day	5.9E-04	mg/kg-day	1.7E-01
				Barium	6E+01	mg/kg	2.3E-06	mg/kg-day	N/A	N/A	N/A	2.7E-05	mg/kg-day	7.0E-02	mg/kg-day	3.8E-04
				Cadmium	2E+00	mg/kg	8.9E-08	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	1.0E-03	mg/kg-day	1.0E-03
				Chromium III	3E+02	mg/kg	1.0E-05	mg/kg-day	N/A	N/A	N/A	1.2E-04	mg/kg-day	1.5E+00	mg/kg-day	7.9E-05
				Copper	3E+02	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	1.0E-05	mg/kg-day	N/A	N/A	N/A	1.2E-04	mg/kg-day	7.0E-02	mg/kg-day	1.7E-03
				Mercury	4E+00	mg/kg	1.8E-07	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	1.0E-04	mg/kg-day	2.1E-02
				Nickel	1E+01	mg/kg	5.7E-07	mg/kg-day	N/A	N/A	N/A	6.7E-06	mg/kg-day	2.0E-02	mg/kg-day	3.3E-04
				Vanadium	3E+01	mg/kg	1.2E-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
				Zinc	5E+02	mg/kg	2.0E-05	mg/kg-day	N/A	N/A	N/A	2.3E-04	mg/kg-day	3.0E-01	mg/kg-day	7.7E-04
			Exp. Route Total								7E-06					2E-01
			Dermal													
				Arsenic	2E+02	mg/kg	1.5E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.2E-06	1.7E-05	mg/kg-day	3.0E-04	mg/kg-day	5.7E-02
				Cadmium	2E+00	mg/kg	5.0E-08	mg/kg-day	N/A	N/A	N/A	5.8E-06	mg/kg-day	2.5E-05	mg/kg-day	2.3E-03
			Exp. Route Total								2E-06					6E-02
		Exposure Point Total									9E-06					3E-01

TABLE 3-7.3.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station 14	Ingestion													
				Benzo(a)anthracene	1E+00	mg/kg	4.5E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.3E-08	5.2E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	9E-01	mg/kg	3.6E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.6E-07	4.2E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	8.5E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.2E-08	1.0E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	4.5E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	3.3E-09	5.2E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	3E+00	mg/kg	1.1E-07	mg/kg-day	N/A	N/A	N/A	1.2E-06	mg/kg-day	2.0E-02	mg/kg-day	6.2E-05
				Antimony	1E+00	mg/kg	4.0E-08	mg/kg-day	N/A	N/A	N/A	4.7E-07	mg/kg-day	4.0E-04	mg/kg-day	1.2E-03
				Arsenic	7E+01	mg/kg	3.0E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.3E-06	3.5E-05	mg/kg-day	5.9E-04	mg/kg-day	5.9E-02
				Barium	2E+01	mg/kg	7.5E-07	mg/kg-day	N/A	N/A	N/A	8.7E-06	mg/kg-day	7.0E-02	mg/kg-day	1.2E-04
				Cadmium	1E+00	mg/kg	4.1E-08	mg/kg-day	N/A	N/A	N/A	4.7E-07	mg/kg-day	1.0E-03	mg/kg-day	4.7E-04
				Chromium III	2E+02	mg/kg	8.8E-06	mg/kg-day	N/A	N/A	N/A	1.0E-04	mg/kg-day	1.5E+00	mg/kg-day	6.8E-05
				Copper	6E+01	mg/kg	2.6E-06	mg/kg-day	N/A	N/A	N/A	3.1E-05	mg/kg-day	3.0E-02	mg/kg-day	1.0E-03
				Lead												
				Manganese	2E+02	mg/kg	7.0E-06	mg/kg-day	N/A	N/A	N/A	8.2E-05	mg/kg-day	7.0E-02	mg/kg-day	1.2E-03
				Mercury	1E+00	mg/kg	5.7E-08	mg/kg-day	N/A	N/A	N/A	6.6E-07	mg/kg-day	1.0E-04	mg/kg-day	6.6E-03
				Nickel	1E+01	mg/kg	4.2E-07	mg/kg-day	N/A	N/A	N/A	4.9E-06	mg/kg-day	2.0E-02	mg/kg-day	2.5E-04
				Thallium	8E-01	mg/kg	3.3E-08	mg/kg-day	N/A	N/A	N/A	3.8E-07	mg/kg-day	8.0E-05	mg/kg-day	4.8E-03
				Vanadium	1E+01	mg/kg	5.4E-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
				Zinc	3E+02	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	4.3E-04
			Exp. Route Total								3E-06					8E-02
			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	9E-01	mg/kg	2.6E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.9E-07	3.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	6.2E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.5E-08	7.3E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	3.3E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	2.4E-09	3.8E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	3E+00	mg/kg	7.7E-08	mg/kg-day	N/A	N/A	N/A	9.0E-07	mg/kg-day	2.0E-02	mg/kg-day	4.5E-05
				Arsenic	7E+01	mg/kg	5.0E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	7.5E-07	5.9E-06	mg/kg-day	3.0E-04	mg/kg-day	2.0E-02
				Cadmium	1E+00	mg/kg	2.3E-09	mg/kg-day	N/A	N/A	N/A	2.7E-08	mg/kg-day	2.5E-05	mg/kg-day	1.1E-03
			Exp. Route Total								1E-06					2E-02
		Exposure Point Total									4E-06					1E-01

TABLE 3-7.3.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station 22/TT-22	Ingestion													
				Tetrachloroethene	3E+00	mg/kg	1.1E-07	mg/kg-day	5.4E-01	(mg/kg-day) $^{-1}$	6.1E-08	1.3E-06	mg/kg-day	1.0E-02	mg/kg-day	1.3E-04
				Trichloroethene	7E-01	mg/kg	2.8E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.1E-08	3.3E-07	mg/kg-day	3.0E-04	mg/kg-day	1.1E-03
				Benzo(a)anthracene	3E-01	mg/kg	1.2E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	8.9E-09	1.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	8.1E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	5.9E-08	9.5E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	4E-01	mg/kg	1.8E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.3E-08	2.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	5E-01	mg/kg	2.2E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.6E-09	2.6E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	4E-02	mg/kg	1.8E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.3E-08	2.1E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	2E-01	mg/kg	9.0E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.5E-09	1.0E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	2.0E-08	mg/kg-day	N/A	N/A	N/A	2.3E-07	mg/kg-day	2.0E-02	mg/kg-day	1.2E-05
				Aroclor 1260	3E-02	mg/kg	1.2E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	2.4E-09	1.4E-08	mg/kg-day	2.0E-05	mg/kg-day	6.9E-04
				Antimony	3E+02	mg/kg	1.3E-05	mg/kg-day	N/A	N/A	N/A	1.6E-04	mg/kg-day	4.0E-04	mg/kg-day	3.9E-01
				Arsenic	8E+01	mg/kg	3.1E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.4E-06	3.7E-05	mg/kg-day	5.9E-04	mg/kg-day	6.2E-02
				Barium	5E+01	mg/kg	2.0E-06	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	7.0E-02	mg/kg-day	3.4E-04
				Cadmium	1E+00	mg/kg	5.8E-08	mg/kg-day	N/A	N/A	N/A	6.8E-07	mg/kg-day	1.0E-03	mg/kg-day	6.8E-04
				Chromium III	6E+01	mg/kg	2.6E-06	mg/kg-day	N/A	N/A	N/A	3.1E-05	mg/kg-day	1.5E+00	mg/kg-day	2.1E-05
				Copper	3E+01	mg/kg	1.2E-06	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	3.0E-02	mg/kg-day	4.6E-04
				Lead												
				Manganese	1E+02	mg/kg	4.7E-06	mg/kg-day	N/A	N/A	N/A	5.5E-05	mg/kg-day	7.0E-02	mg/kg-day	7.9E-04
				Mercury	5E-01	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
				Nickel	1E+01	mg/kg	4.6E-07	mg/kg-day	N/A	N/A	N/A	5.4E-06	mg/kg-day	2.0E-02	mg/kg-day	2.7E-04
				Vanadium	4E+01	mg/kg	1.7E-06	mg/kg-day	N/A	N/A	N/A	1.9E-05	mg/kg-day	1.0E-03	mg/kg-day	1.9E-02
				Zinc	1E+02	mg/kg	3.9E-06	mg/kg-day	N/A	N/A	N/A	4.5E-05	mg/kg-day	3.0E-01	mg/kg-day	1.5E-04
			Exp. Route Total								3E-06					5E-01
			Dermal													
				Benzo(a)anthracene	3E-01	mg/kg	8.9E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.5E-09	1.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	5.9E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.3E-08	6.9E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	4E-01	mg/kg	1.3E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.5E-09	1.5E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	5E-01	mg/kg	1.6E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.2E-09	1.9E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	4E-02	mg/kg	1.3E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	9.5E-09	1.5E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	2E-01	mg/kg	6.5E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.8E-09	7.6E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	1.5E-08	mg/kg-day	N/A	N/A	N/A	1.7E-07	mg/kg-day	2.0E-02	mg/kg-day	8.5E-06
				Aroclor 1260	3E-02	mg/kg	9.3E-10	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.9E-09	1.1E-08	mg/kg-day	2.0E-05	mg/kg-day	5.4E-04
				Arsenic	8E+01	mg/kg	5.3E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	7.9E-07	6.2E-06	mg/kg-day	3.0E-04	mg/kg-day	2.1E-02
				Cadmium	1E+00	mg/kg	3.3E-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								9E-07					2E-02
		Exposure Point Total									3E-06					5E-01

TABLE 3-7.3.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station WH	Ingestion													
				Trichloroethene	5E-02	mg/kg	2.2E-09	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	8.6E-10	2.5E-08	mg/kg-day	3.0E-04	mg/kg-day	8.4E-05
				Benzo(a)anthracene	6E-01	mg/kg	2.3E-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
				Benzo(a)pyrene	1E+00	mg/kg	4.1E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.0E-07	4.7E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	6.1E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.5E-08	7.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	7E-01	mg/kg	2.9E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	2.1E-09	3.4E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	1.3E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	9.5E-08	1.5E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	7E-01	mg/kg	3.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.2E-08	3.5E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	6E-01	mg/kg	2.3E-08	mg/kg-day	N/A	N/A	N/A	2.7E-07	mg/kg-day	2.0E-02	mg/kg-day	1.4E-05
				Aroclor 1260	6E-02	mg/kg	2.4E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	4.7E-09	2.8E-08	mg/kg-day	2.0E-05	mg/kg-day	1.4E-03
				Antimony	3E+01	mg/kg	1.4E-06	mg/kg-day	N/A	N/A	N/A	1.7E-05	mg/kg-day	4.0E-04	mg/kg-day	4.1E-02
				Arsenic	2E+03	mg/kg	7.8E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	6.0E-05	9.1E-04	mg/kg-day	5.9E-04	mg/kg-day	1.5E+00
				Barium	9E+01	mg/kg	3.8E-06	mg/kg-day	N/A	N/A	N/A	4.4E-05	mg/kg-day	7.0E-02	mg/kg-day	6.3E-04
				Cadmium	1E+01	mg/kg	4.4E-07	mg/kg-day	N/A	N/A	N/A	5.1E-06	mg/kg-day	1.0E-03	mg/kg-day	5.1E-03
				Chromium III	1E+03	mg/kg	4.8E-05	mg/kg-day	N/A	N/A	N/A	5.6E-04	mg/kg-day	1.5E+00	mg/kg-day	3.7E-04
				Copper	1E+03	mg/kg	4.9E-05	mg/kg-day	N/A	N/A	N/A	5.7E-04	mg/kg-day	3.0E-02	mg/kg-day	1.9E-02
				Lead												
				Manganese	5E+02	mg/kg	2.1E-05	mg/kg-day	N/A	N/A	N/A	2.4E-04	mg/kg-day	7.0E-02	mg/kg-day	3.5E-03
				Mercury	3E+01	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	1.0E-04	mg/kg-day	1.3E-01
				Nickel	4E+01	mg/kg	1.7E-06	mg/kg-day	N/A	N/A	N/A	1.9E-05	mg/kg-day	2.0E-02	mg/kg-day	9.6E-04
				Thallium	8E-01	mg/kg	3.1E-08	mg/kg-day	N/A	N/A	N/A	3.7E-07	mg/kg-day	8.0E-05	mg/kg-day	4.6E-03
				Vanadium	1E+02	mg/kg	4.0E-06	mg/kg-day	N/A	N/A	N/A	4.6E-05	mg/kg-day	1.0E-03	mg/kg-day	4.6E-02
				Zinc	2E+03	mg/kg	9.4E-05	mg/kg-day	N/A	N/A	N/A	1.1E-03	mg/kg-day	3.0E-01	mg/kg-day	3.7E-03
				Chromium VI	2E+00	mg/kg	6.2E-08	mg/kg-day	N/A	N/A	N/A	7.3E-07	mg/kg-day	3.0E-03	mg/kg-day	2.4E-04
			Exp. Route Total								6E-05					2E+00
			Dermal													
				Benzo(a)anthracene	6E-01	mg/kg	1.7E-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	3.0E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.2E-07	3.5E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	4.4E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.2E-08	5.2E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	7E-01	mg/kg	2.1E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.6E-09	2.5E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	9.5E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	6.9E-08	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	7E-01	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
				Phenanthrene	6E-01	mg/kg	1.7E-08	mg/kg-day	N/A	N/A	N/A	2.0E-07	mg/kg-day	2.0E-02	mg/kg-day	9.9E-06
				Aroclor 1260	6E-02	mg/kg	1.9E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	3.7E-09	2.2E-08	mg/kg-day	2.0E-05	mg/kg-day	1.1E-03
				Arsenic	2E+03	mg/kg	1.3E-05	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.0E-05	1.5E-04	mg/kg-day	3.0E-04	mg/kg-day	5.1E-01
				Cadmium	1E+01	mg/kg	2.5E-08	mg/kg-day	N/A	N/A	N/A	2.9E-07	mg/kg-day	2.5E-05	mg/kg-day	1.1E-02
			Exp. Route Total								2E-05					5E-01
		Exposure Point Total									8E-05					2E+00

TABLE 3-7.3.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station WG	Ingestion													
				Trichloroethene	4E-02	mg/kg	1.7E-09	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	6.8E-10	2.0E-08	mg/kg-day	3.0E-04	mg/kg-day	6.6E-05
				Benzo(a)anthracene	1E-01	mg/kg	5.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.9E-09	6.2E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	6.5E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.8E-08	7.6E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E-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
				Benzo(k)fluoranthene	2E-01	mg/kg	8.1E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	5.9E-10	9.5E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	5E-02	mg/kg	1.9E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.4E-08	2.2E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	5.7E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.2E-09	6.6E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E-01	mg/kg	8.5E-09	mg/kg-day	N/A	N/A	N/A	7.6E-08	mg/kg-day	2.0E-02	mg/kg-day	3.8E-06
				Aroclor 1260	1E-02	mg/kg	4.5E-10	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	9.0E-10	5.2E-09	mg/kg-day	2.0E-05	mg/kg-day	2.6E-04
				Antimony	9E+00	mg/kg	3.7E-07	mg/kg-day	N/A	N/A	N/A	4.4E-06	mg/kg-day	4.0E-04	mg/kg-day	1.1E-02
				Arsenic	3E+02	mg/kg	1.1E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	8.2E-06	1.2E-04	mg/kg-day	5.9E-04	mg/kg-day	2.1E-01
				Barium	9E+01	mg/kg	3.8E-06	mg/kg-day	N/A	N/A	N/A	4.5E-05	mg/kg-day	7.0E-02	mg/kg-day	6.4E-04
				Cadmium	6E+00	mg/kg	2.6E-07	mg/kg-day	N/A	N/A	N/A	3.0E-06	mg/kg-day	1.0E-03	mg/kg-day	3.0E-03
				Chromium III	9E+02	mg/kg	3.8E-05	mg/kg-day	N/A	N/A	N/A	4.4E-04	mg/kg-day	1.5E+00	mg/kg-day	2.9E-04
				Copper	6E+02	mg/kg	2.6E-05	mg/kg-day	N/A	N/A	N/A	3.0E-04	mg/kg-day	3.0E-02	mg/kg-day	9.9E-03
				Lead												
				Manganese	1E+03	mg/kg	4.1E-05	mg/kg-day	N/A	N/A	N/A	4.8E-04	mg/kg-day	7.0E-02	mg/kg-day	6.9E-03
				Mercury	3E+00	mg/kg	1.2E-07	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	1.0E-04	mg/kg-day	1.4E-02
				Nickel	3E+01	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	8.2E-04
				Thallium	4E-01	mg/kg	1.8E-08	mg/kg-day	N/A	N/A	N/A	2.1E-07	mg/kg-day	8.0E-05	mg/kg-day	2.6E-03
				Vanadium	7E+01	mg/kg	2.6E-06	mg/kg-day	N/A	N/A	N/A	3.1E-05	mg/kg-day	1.0E-03	mg/kg-day	3.1E-02
				Zinc	1E+03	mg/kg	4.4E-05	mg/kg-day	N/A	N/A	N/A	5.2E-04	mg/kg-day	3.0E-01	mg/kg-day	1.7E-03
			Exp. Route Total								8E-06					3E-01
			Dermal													
				Benzo(a)anthracene	1E-01	mg/kg	3.9E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.8E-09	4.5E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	4.7E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.5E-08	5.5E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E-01	mg/kg	8.6E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.3E-09	1.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E-01	mg/kg	5.9E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	4.3E-10	6.9E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	5E-02	mg/kg	1.4E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.0E-08	1.6E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	4.1E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.0E-09	4.8E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E-01	mg/kg	4.7E-09	mg/kg-day	N/A	N/A	N/A	5.5E-08	mg/kg-day	2.0E-02	mg/kg-day	2.8E-06
				Aroclor 1260	1E-02	mg/kg	3.5E-10	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	7.0E-10	4.1E-09	mg/kg-day	2.0E-05	mg/kg-day	2.0E-04
				Arsenic	3E+02	mg/kg	1.6E-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	6E+00	mg/kg	1.5E-08	mg/kg-day	N/A	N/A	N/A	1.7E-07	mg/kg-day	2.5E-05	mg/kg-day	6.8E-03
			Exp. Route Total								3E-06					8E-02
		Exposure Point Total									1E-05					4E-01

TABLE 3-7.3.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station WS/WSS	Ingestion													
				Antimony	5E+00	mg/kg	8.0E-07	mg/kg-day	N/A	N/A	N/A	9.4E-06	mg/kg-day	4.0E-04	mg/kg-day	2.3E-02
				Arsenic	2E+02	mg/kg	3.7E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.8E-05	4.3E-04	mg/kg-day	5.9E-04	mg/kg-day	7.3E-01
				Barium	1E+02	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
				Cadmium	1E+01	mg/kg	1.7E-06	mg/kg-day	N/A	N/A	N/A	2.0E-05	mg/kg-day	1.0E-03	mg/kg-day	2.0E-02
				Chromium III	7E+02	mg/kg	1.2E-04	mg/kg-day	N/A	N/A	N/A	1.4E-03	mg/kg-day	1.5E+00	mg/kg-day	9.2E-04
				Copper	4E+02	mg/kg	6.7E-05	mg/kg-day	N/A	N/A	N/A	7.9E-04	mg/kg-day	3.0E-02	mg/kg-day	2.6E-02
				Lead												
				Manganese	1E+03	mg/kg	2.0E-04	mg/kg-day	N/A	N/A	N/A	2.3E-03	mg/kg-day	7.0E-02	mg/kg-day	3.3E-02
				Mercury	1E+00	mg/kg	2.2E-07	mg/kg-day	N/A	N/A	N/A	2.6E-06	mg/kg-day	1.0E-04	mg/kg-day	2.6E-02
				Nickel	4E+01	mg/kg	5.9E-06	mg/kg-day	N/A	N/A	N/A	6.9E-05	mg/kg-day	2.0E-02	mg/kg-day	3.4E-03
				Thallium	1E+00	mg/kg	1.8E-07	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	8.0E-05	mg/kg-day	2.6E-02
				Vanadium	4E+01	mg/kg	7.3E-06	mg/kg-day	N/A	N/A	N/A	8.5E-05	mg/kg-day	1.0E-03	mg/kg-day	8.5E-02
				Zinc	2E+03	mg/kg	3.3E-04	mg/kg-day	N/A	N/A	N/A	3.9E-03	mg/kg-day	3.0E-01	mg/kg-day	1.3E-02
				Chromium VI	9E-01	mg/kg	1.5E-07	mg/kg-day	N/A	N/A	N/A	1.8E-06	mg/kg-day	3.0E-03	mg/kg-day	6.0E-04
			Exp. Route Total								3E-05					1E+00
			Dermal													
				Arsenic	2E+02	mg/kg	6.2E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	9.3E-06	7.2E-05	mg/kg-day	3.0E-04	mg/kg-day	2.4E-01
				Cadmium	1E+01	mg/kg	9.8E-08	mg/kg-day	N/A	N/A	N/A	1.1E-06	mg/kg-day	2.5E-05	mg/kg-day	4.6E-02
			Exp. Route Total								9E-06					3E-01
		Exposure Point Total									4E-05					1E+00

TABLE 3-7.3.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station TT-30	Ingestion													
				Arsenic	1E+03	mg/kg	4.4E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.4E-05	5.1E-04	mg/kg-day	5.9E-04	mg/kg-day	8.7E-01
				Barium	3E+01	mg/kg	1.3E-06	mg/kg-day	N/A	N/A	N/A	1.6E-05	mg/kg-day	7.0E-02	mg/kg-day	2.2E-04
				Cadmium	7E+00	mg/kg	2.9E-07	mg/kg-day	N/A	N/A	N/A	3.4E-06	mg/kg-day	1.0E-03	mg/kg-day	3.4E-03
				Chromium III	5E+03	mg/kg	2.2E-04	mg/kg-day	N/A	N/A	N/A	2.5E-03	mg/kg-day	1.5E+00	mg/kg-day	1.7E-03
				Copper	4E+03	mg/kg	1.5E-04	mg/kg-day	N/A	N/A	N/A	1.8E-03	mg/kg-day	3.0E-02	mg/kg-day	6.0E-02
				Lead												
				Manganese	2E+02	mg/kg	8.4E-06	mg/kg-day	N/A	N/A	N/A	9.8E-05	mg/kg-day	7.0E-02	mg/kg-day	1.4E-03
				Mercury	9E+01	mg/kg	3.6E-06	mg/kg-day	N/A	N/A	N/A	4.2E-05	mg/kg-day	1.0E-04	mg/kg-day	4.2E-01
				Nickel	8E+00	mg/kg	3.3E-07	mg/kg-day	N/A	N/A	N/A	3.8E-06	mg/kg-day	2.0E-02	mg/kg-day	1.9E-04
				Thallium	2E+00	mg/kg	6.1E-08	mg/kg-day	N/A	N/A	N/A	7.1E-07	mg/kg-day	8.0E-05	mg/kg-day	8.9E-03
				Vanadium	2E+01	mg/kg	8.5E-07	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	mg/kg	4.8E-05	mg/kg-day	N/A	N/A	N/A	5.6E-04	mg/kg-day	3.0E-01	mg/kg-day	1.9E-03
				Chromium VI	7E+00	mg/kg	2.8E-07	mg/kg-day	N/A	N/A	N/A	3.3E-06	mg/kg-day	3.0E-03	mg/kg-day	1.1E-03
			Exp. Route Total								3E-05					1E+00
			Dermal													
				Arsenic	1E+03	mg/kg	7.4E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.1E-05	8.6E-05	mg/kg-day	3.0E-04	mg/kg-day	2.9E-01
				Cadmium	7E+00	mg/kg	1.6E-08	mg/kg-day	N/A	N/A	N/A	1.9E-07	mg/kg-day	2.5E-05	mg/kg-day	7.6E-03
			Exp. Route Total								1E-05					3E-01
		Exposure Point Total									4E-05					2E+00

TABLE 3-7.3.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station CB-01	Ingestion													
				Antimony	2E+00	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	6E+01	mg/kg	9.4E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	7.3E-06	1.1E-04	mg/kg-day	5.9E-04	mg/kg-day	1.9E-01
				Barium	6E+01	mg/kg	9.6E-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
				Cadmium	9E+00	mg/kg	1.5E-06	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	1.0E-03	mg/kg-day	1.8E-02
				Chromium III	3E+02	mg/kg	5.4E-05	mg/kg-day	N/A	N/A	N/A	6.3E-04	mg/kg-day	1.5E+00	mg/kg-day	4.2E-04
				Copper	7E+02	mg/kg	1.2E-04	mg/kg-day	N/A	N/A	N/A	1.4E-03	mg/kg-day	3.0E-02	mg/kg-day	4.7E-02
				Lead												
				Manganese	7E+02	mg/kg	1.1E-04	mg/kg-day	N/A	N/A	N/A	1.3E-03	mg/kg-day	7.0E-02	mg/kg-day	1.9E-02
				Mercury	3E+00	mg/kg	4.8E-07	mg/kg-day	N/A	N/A	N/A	5.6E-06	mg/kg-day	1.0E-04	mg/kg-day	5.6E-02
				Nickel	2E+01	mg/kg	3.3E-06	mg/kg-day	N/A	N/A	N/A	3.9E-05	mg/kg-day	2.0E-02	mg/kg-day	1.9E-03
				Thallium	3E+00	mg/kg	4.1E-07	mg/kg-day	N/A	N/A	N/A	4.8E-06	mg/kg-day	8.0E-05	mg/kg-day	6.0E-02
				Vanadium	8E+01	mg/kg	1.3E-05	mg/kg-day	N/A	N/A	N/A	1.5E-04	mg/kg-day	1.0E-03	mg/kg-day	1.5E-01
				Zinc	6E+02	mg/kg	1.0E-04	mg/kg-day	N/A	N/A	N/A	1.2E-03	mg/kg-day	3.0E-01	mg/kg-day	4.0E-03
			Exp. Route Total								7E-06					6E-01
			Dermal													
				Arsenic	6E+01	mg/kg	1.6E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.4E-06	1.8E-05	mg/kg-day	3.0E-04	mg/kg-day	6.2E-02
				Cadmium	9E+00	mg/kg	8.5E-08	mg/kg-day	N/A	N/A	N/A	9.9E-07	mg/kg-day	2.5E-05	mg/kg-day	3.9E-02
			Exp. Route Total								2E-06					1E-01
		Exposure Point Total									1E-05					7E-01
		Station CB-02	Ingestion													
				Antimony	2E+00	mg/kg	2.9E-07	mg/kg-day	N/A	N/A	N/A	3.4E-06	mg/kg-day	4.0E-04	mg/kg-day	8.5E-03
				Arsenic	4E+01	mg/kg	6.7E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	5.2E-06	7.9E-05	mg/kg-day	5.9E-04	mg/kg-day	1.3E-01
				Barium	2E+02	mg/kg	2.8E-05	mg/kg-day	N/A	N/A	N/A	3.2E-04	mg/kg-day	7.0E-02	mg/kg-day	4.6E-03
				Cadmium	4E+00	mg/kg	6.2E-07	mg/kg-day	N/A	N/A	N/A	7.3E-06	mg/kg-day	1.0E-03	mg/kg-day	7.3E-03
				Chromium III	1E+02	mg/kg	2.3E-05	mg/kg-day	N/A	N/A	N/A	2.7E-04	mg/kg-day	1.5E+00	mg/kg-day	1.8E-04
				Copper	1E+02	mg/kg	1.6E-05	mg/kg-day	N/A	N/A	N/A	1.9E-04	mg/kg-day	3.0E-02	mg/kg-day	6.2E-03
				Lead												
				Manganese	7E+01	mg/kg	1.2E-05	mg/kg-day	N/A	N/A	N/A	1.4E-04	mg/kg-day	7.0E-02	mg/kg-day	2.0E-03
				Mercury	3E-01	mg/kg	5.3E-08	mg/kg-day	N/A	N/A	N/A	6.2E-07	mg/kg-day	1.0E-04	mg/kg-day	6.2E-03
				Nickel	1E+01	mg/kg	1.6E-06	mg/kg-day	N/A	N/A	N/A	1.9E-05	mg/kg-day	2.0E-02	mg/kg-day	9.5E-04
				Vanadium	3E+01	mg/kg	5.2E-06	mg/kg-day	N/A	N/A	N/A	6.1E-05	mg/kg-day	1.0E-03	mg/kg-day	6.1E-02
				Zinc	3E+02	mg/kg	5.1E-05	mg/kg-day	N/A	N/A	N/A	6.0E-04	mg/kg-day	3.0E-01	mg/kg-day	2.0E-03
			Exp. Route Total								5E-06					2E-01
			Dermal													
				Arsenic	4E+01	mg/kg	1.1E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.7E-06	1.3E-05	mg/kg-day	3.0E-04	mg/kg-day	4.4E-02
				Cadmium	4E+00	mg/kg	3.5E-08	mg/kg-day	N/A	N/A	N/A	4.1E-07	mg/kg-day	2.5E-05	mg/kg-day	1.6E-02
			Exp. Route Total								2E-06					6E-02
		Exposure Point Total									7E-06					3E-01

TABLE 3-7.3.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station CB-03	Ingestion													
				Antimony	5E+00	mg/kg	7.8E-07	mg/kg-day	N/A	N/A	N/A	9.1E-06	mg/kg-day	4.0E-04	mg/kg-day	2.3E-02
				Arsenic	6E+02	mg/kg	9.7E-05	mg/kg-day	7.7E-01	(mg/kg-day)$^{-1}$	7.5E-05	1.1E-03	mg/kg-day	5.9E-04	mg/kg-day	1.9E+00
				Barium	7E+01	mg/kg	1.1E-05	mg/kg-day	N/A	N/A	N/A	1.3E-04	mg/kg-day	7.0E-02	mg/kg-day	1.8E-03
				Cadmium	1E+01	mg/kg	2.1E-06	mg/kg-day	N/A	N/A	N/A	2.5E-05	mg/kg-day	1.0E-03	mg/kg-day	2.5E-02
				Chromium III	8E+02	mg/kg	1.3E-04	mg/kg-day	N/A	N/A	N/A	1.5E-03	mg/kg-day	1.5E+00	mg/kg-day	9.7E-04
				Copper	4E+02	mg/kg	6.1E-05	mg/kg-day	N/A	N/A	N/A	7.2E-04	mg/kg-day	3.0E-02	mg/kg-day	2.4E-02
				Lead												
				Manganese	5E+02	mg/kg	7.6E-05	mg/kg-day	N/A	N/A	N/A	8.8E-04	mg/kg-day	7.0E-02	mg/kg-day	1.3E-02
				Mercury	2E+00	mg/kg	4.0E-07	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	1.0E-04	mg/kg-day	4.7E-02
				Nickel	4E+01	mg/kg	6.0E-06	mg/kg-day	N/A	N/A	N/A	7.0E-05	mg/kg-day	2.0E-02	mg/kg-day	3.5E-03
				Thallium	1E+00	mg/kg	1.6E-07	mg/kg-day	N/A	N/A	N/A	1.8E-06	mg/kg-day	8.0E-05	mg/kg-day	2.3E-02
				Vanadium	6E+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
				Zinc	2E+03	mg/kg	3.4E-04	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								7E-05					2E+00
			Dermal													
				Arsenic	6E+02	mg/kg	1.6E-05	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	2.4E-05	1.9E-04	mg/kg-day	3.0E-04	mg/kg-day	6.3E-01
				Cadmium	1E+01	mg/kg	1.2E-07	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	2.5E-05	mg/kg-day	5.6E-02
			Exp. Route Total								2E-05					7E-01
		Exposure Point Total									1E-04					3E+00
		Station CB-04	Ingestion													
				Antimony	5E+00	mg/kg	7.8E-07	mg/kg-day	N/A	N/A	N/A	9.1E-06	mg/kg-day	4.0E-04	mg/kg-day	2.3E-02
				Arsenic	2E+02	mg/kg	3.0E-05	mg/kg-day	7.7E-01	(mg/kg-day)$^{-1}$	2.3E-05	3.5E-04	mg/kg-day	5.9E-04	mg/kg-day	5.8E-01
				Barium	8E+01	mg/kg	1.2E-05	mg/kg-day	N/A	N/A	N/A	1.5E-04	mg/kg-day	7.0E-02	mg/kg-day	2.1E-03
				Cadmium	8E+00	mg/kg	9.3E-07	mg/kg-day	N/A	N/A	N/A	1.1E-05	mg/kg-day	1.0E-03	mg/kg-day	1.1E-02
				Chromium III	3E+02	mg/kg	4.4E-05	mg/kg-day	N/A	N/A	N/A	5.2E-04	mg/kg-day	1.5E+00	mg/kg-day	3.4E-04
				Copper	2E+02	mg/kg	4.0E-05	mg/kg-day	N/A	N/A	N/A	4.6E-04	mg/kg-day	3.0E-02	mg/kg-day	1.5E-02
				Lead												
				Manganese	1E+03	mg/kg	2.2E-04	mg/kg-day	N/A	N/A	N/A	2.6E-03	mg/kg-day	7.0E-02	mg/kg-day	3.7E-02
				Mercury	1E+00	mg/kg	2.0E-07	mg/kg-day	N/A	N/A	N/A	2.3E-06	mg/kg-day	1.0E-04	mg/kg-day	2.3E-02
				Nickel	8E+01	mg/kg	1.2E-05	mg/kg-day	N/A	N/A	N/A	1.5E-04	mg/kg-day	2.0E-02	mg/kg-day	7.3E-03
				Thallium	5E+00	mg/kg	8.6E-07	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	8.0E-05	mg/kg-day	1.3E-01
				Vanadium	7E+01	mg/kg	1.1E-05	mg/kg-day	N/A	N/A	N/A	1.3E-04	mg/kg-day	1.0E-03	mg/kg-day	1.3E-01
				Zinc	3E+03	mg/kg	5.0E-04	mg/kg-day	N/A	N/A	N/A	5.8E-03	mg/kg-day	3.0E-01	mg/kg-day	1.9E-02
			Exp. Route Total								2E-05					1E+00
			Dermal													
				Arsenic	2E+02	mg/kg	5.0E-06	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	7.5E-06	5.8E-05	mg/kg-day	3.0E-04	mg/kg-day	1.9E-01
				Cadmium	6E+00	mg/kg	5.2E-08	mg/kg-day	N/A	N/A	N/A	6.1E-07	mg/kg-day	2.5E-05	mg/kg-day	2.4E-02
			Exp. Route Total								7E-08					2E-01
		Exposure Point Total									3E-05					1E+00

TABLE 3-7.3.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station CB-06	Ingestion													
				Antimony	5E+00	mg/kg	7.7E-07	mg/kg-day	N/A	N/A	N/A	9.0E-06	mg/kg-day	4.0E-04	mg/kg-day	2.2E-02
				Arsenic	1E+02	mg/kg	2.3E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.8E-05	2.7E-04	mg/kg-day	5.9E-04	mg/kg-day	4.5E-01
				Barium	5E+01	mg/kg	8.3E-06	mg/kg-day	N/A	N/A	N/A	9.7E-05	mg/kg-day	7.0E-02	mg/kg-day	1.4E-03
				Cadmium	2E+01	mg/kg	2.8E-06	mg/kg-day	N/A	N/A	N/A	3.3E-05	mg/kg-day	1.0E-03	mg/kg-day	3.3E-02
				Chromium III	5E+02	mg/kg	8.1E-05	mg/kg-day	N/A	N/A	N/A	9.4E-04	mg/kg-day	1.5E+00	mg/kg-day	6.3E-04
				Copper	2E+02	mg/kg	3.8E-05	mg/kg-day	N/A	N/A	N/A	4.5E-04	mg/kg-day	3.0E-02	mg/kg-day	1.5E-02
				Lead												
				Manganese	9E+01	mg/kg	1.5E-05	mg/kg-day	N/A	N/A	N/A	1.8E-04	mg/kg-day	7.0E-02	mg/kg-day	2.5E-03
				Mercury	3E-01	mg/kg	5.5E-08	mg/kg-day	N/A	N/A	N/A	6.4E-07	mg/kg-day	1.0E-04	mg/kg-day	6.4E-03
				Nickel	3E+01	mg/kg	4.5E-06	mg/kg-day	N/A	N/A	N/A	5.2E-05	mg/kg-day	2.0E-02	mg/kg-day	2.6E-03
				Thallium	4E+00	mg/kg	6.7E-07	mg/kg-day	N/A	N/A	N/A	7.9E-06	mg/kg-day	8.0E-05	mg/kg-day	9.8E-02
				Vanadium	7E+01	mg/kg	1.2E-05	mg/kg-day	N/A	N/A	N/A	1.4E-04	mg/kg-day	1.0E-03	mg/kg-day	1.4E-01
				Zinc	2E+03	mg/kg	3.4E-04	mg/kg-day	N/A	N/A	N/A	3.9E-03	mg/kg-day	3.0E-01	mg/kg-day	1.3E-02
				Chromium VI	6E-01	mg/kg	1.1E-07	mg/kg-day	N/A	N/A	N/A	1.2E-06	mg/kg-day	3.0E-03	mg/kg-day	4.1E-04
			Exp. Route Total								2E-05					8E-01
			Dermal													
				Arsenic	1E+02	mg/kg	3.8E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.7E-06	4.5E-05	mg/kg-day	3.0E-04	mg/kg-day	1.5E-01
				Cadmium	2E+01	mg/kg	1.6E-07	mg/kg-day	N/A	N/A	N/A	1.8E-06	mg/kg-day	2.5E-05	mg/kg-day	7.3E-02
			Exp. Route Total								6E-06					2E-01
		Exposure Point Total									2E-05					1E+00
		Station CB-07	Ingestion													
				Arsenic	2E+02	mg/kg	8.6E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	6.6E-06	1.0E-04	mg/kg-day	5.9E-04	mg/kg-day	1.7E-01
				Barium	6E+01	mg/kg	2.3E-06	mg/kg-day	N/A	N/A	N/A	2.7E-05	mg/kg-day	7.0E-02	mg/kg-day	3.8E-04
				Cadmium	5E+00	mg/kg	2.0E-07	mg/kg-day	N/A	N/A	N/A	2.3E-06	mg/kg-day	1.0E-03	mg/kg-day	2.3E-03
				Chromium III	7E+02	mg/kg	2.9E-05	mg/kg-day	N/A	N/A	N/A	3.4E-04	mg/kg-day	1.5E+00	mg/kg-day	2.3E-04
				Copper	4E+02	mg/kg	1.8E-05	mg/kg-day	N/A	N/A	N/A	2.1E-04	mg/kg-day	3.0E-02	mg/kg-day	6.9E-03
				Lead												
				Manganese	6E+02	mg/kg	2.6E-05	mg/kg-day	N/A	N/A	N/A	3.1E-04	mg/kg-day	7.0E-02	mg/kg-day	4.4E-03
				Mercury	1E+00	mg/kg	5.3E-08	mg/kg-day	N/A	N/A	N/A	6.1E-07	mg/kg-day	1.0E-04	mg/kg-day	6.1E-03
				Nickel	2E+01	mg/kg	8.9E-07	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	2.0E-02	mg/kg-day	5.2E-04
				Vanadium	9E+01	mg/kg	3.7E-06	mg/kg-day	N/A	N/A	N/A	4.3E-05	mg/kg-day	1.0E-03	mg/kg-day	4.3E-02
				Zinc	6E+02	mg/kg	2.5E-05	mg/kg-day	N/A	N/A	N/A	2.9E-04	mg/kg-day	3.0E-01	mg/kg-day	9.8E-04
			Exp. Route Total								7E-06					2E-01
			Dermal													
				Arsenic	2E+02	mg/kg	1.4E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.2E-06	1.7E-05	mg/kg-day	3.0E-04	mg/kg-day	5.6E-02
				Cadmium	5E+00	mg/kg	1.1E-08	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	2.5E-05	mg/kg-day	5.2E-03
			Exp. Route Total								2E-06					6E-02
		Exposure Point Total									9E-06					3E-01

TABLE 3-7.3.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station 16/TT-33	Ingestion													
				Benzo(a)anthracene	1E-01	mg/kg	1.3E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.8E-09	1.6E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E-01	mg/kg	1.7E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.2E-07	2.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E-01	mg/kg	3.2E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.3E-08	3.7E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E-01	mg/kg	1.2E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	8.8E-10	1.4E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	6E-02	mg/kg	7.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.3E-09	8.5E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	1E-01	mg/kg	1.6E-08	mg/kg-day	N/A	N/A	N/A	1.9E-07	mg/kg-day	2.0E-02	mg/kg-day	9.3E-06
				Antimony	6E+00	mg/kg	7.2E-07	mg/kg-day	N/A	N/A	N/A	8.4E-06	mg/kg-day	4.0E-04	mg/kg-day	2.1E-02
				Arsenic	2E+02	mg/kg	2.9E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.2E-05	3.4E-04	mg/kg-day	5.9E-04	mg/kg-day	5.7E-01
				Barium	6E+01	mg/kg	7.6E-06	mg/kg-day	N/A	N/A	N/A	8.9E-05	mg/kg-day	7.0E-02	mg/kg-day	1.3E-03
				Cadmium	6E+00	mg/kg	6.8E-07	mg/kg-day	N/A	N/A	N/A	8.0E-06	mg/kg-day	1.0E-03	mg/kg-day	8.0E-03
				Chromium III	2E+03	mg/kg	2.7E-04	mg/kg-day	N/A	N/A	N/A	3.1E-03	mg/kg-day	1.5E+00	mg/kg-day	2.1E-03
				Copper	4E+02	mg/kg	4.9E-05	mg/kg-day	N/A	N/A	N/A	5.7E-04	mg/kg-day	3.0E-02	mg/kg-day	1.9E-02
				Lead												
				Manganese	8E+02	mg/kg	9.5E-05	mg/kg-day	N/A	N/A	N/A	1.1E-03	mg/kg-day	7.0E-02	mg/kg-day	1.6E-02
				Mercury	3E+00	mg/kg	4.2E-07	mg/kg-day	N/A	N/A	N/A	4.9E-06	mg/kg-day	1.0E-04	mg/kg-day	4.9E-02
				Nickel	2E+01	mg/kg	1.9E-06	mg/kg-day	N/A	N/A	N/A	2.2E-05	mg/kg-day	2.0E-02	mg/kg-day	1.1E-03
				Vanadium	3E+01	mg/kg	3.7E-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
				Zinc	9E+02	mg/kg	1.1E-04	mg/kg-day	N/A	N/A	N/A	1.3E-03	mg/kg-day	3.0E-01	mg/kg-day	4.4E-03
				Chromium VI	3E+00	mg/kg	3.5E-07	mg/kg-day	N/A	N/A	N/A	4.1E-06	mg/kg-day	3.0E-03	mg/kg-day	1.4E-03
			Exp. Route Total								2E-05					7E-01
			Dermal													
				Benzo(a)anthracene	1E-01	mg/kg	9.8E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	7.1E-09	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E-01	mg/kg	1.2E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	9.1E-08	1.5E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E-01	mg/kg	2.3E-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
				Benzo(k)fluoranthene	1E-01	mg/kg	8.8E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	6.4E-10	1.0E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	6E-02	mg/kg	5.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.9E-09	6.2E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	1E-01	mg/kg	1.2E-08	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	2.0E-02	mg/kg-day	6.7E-06
				Arsenic	2E+02	mg/kg	4.8E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	7.3E-06	5.7E-05	mg/kg-day	3.0E-04	mg/kg-day	1.9E-01
				Cadmium	6E+00	mg/kg	3.8E-08	mg/kg-day	N/A	N/A	N/A	4.5E-07	mg/kg-day	2.5E-05	mg/kg-day	1.8E-02
			Exp. Route Total								7E-06					2E-01
		Exposure Point Total									3E-05					9E-01

TABLE 3-7.3.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station 09	Ingestion													
				Benzo(a)anthracene	5E-01	mg/kg	5.8E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.3E-08	6.8E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	5E-01	mg/kg	6.1E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.5E-07	7.2E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	1.6E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.2E-07	1.9E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	1.5E-07	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.1E-08	1.7E-06	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	8E-02	mg/kg	9.8E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	7.1E-08	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	mg/kg	3.1E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.2E-08	3.6E-07	mg/kg-day	N/A	N/A	N/A
				Antimony	1E+00	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	3E+01	mg/kg	4.3E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.3E-06	5.0E-05	mg/kg-day	5.9E-04	mg/kg-day	8.4E-02
				Barium	3E+01	mg/kg	4.1E-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
				Cadmium	7E-01	mg/kg	8.3E-08	mg/kg-day	N/A	N/A	N/A	9.7E-07	mg/kg-day	1.0E-03	mg/kg-day	9.7E-04
				Chromium III	6E+01	mg/kg	7.2E-06	mg/kg-day	N/A	N/A	N/A	8.4E-05	mg/kg-day	1.5E+00	mg/kg-day	5.6E-05
				Copper	6E+01	mg/kg	7.7E-06	mg/kg-day	N/A	N/A	N/A	9.0E-05	mg/kg-day	3.0E-02	mg/kg-day	3.0E-03
				Lead												
				Manganese	3E+03	mg/kg	3.2E-04	mg/kg-day	N/A	N/A	N/A	3.8E-03	mg/kg-day	7.0E-02	mg/kg-day	5.4E-02
				Mercury	4E-01	mg/kg	4.7E-08	mg/kg-day	N/A	N/A	N/A	5.5E-07	mg/kg-day	1.0E-04	mg/kg-day	5.5E-03
				Nickel	1E+01	mg/kg	1.2E-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
				Thallium	1E+00	mg/kg	1.6E-07	mg/kg-day	N/A	N/A	N/A	1.8E-06	mg/kg-day	8.0E-05	mg/kg-day	2.3E-02
				Vanadium	1E+01	mg/kg	1.7E-06	mg/kg-day	N/A	N/A	N/A	1.9E-05	mg/kg-day	1.0E-03	mg/kg-day	1.9E-02
				Zinc	2E+02	mg/kg	2.9E-05	mg/kg-day	N/A	N/A	N/A	3.4E-04	mg/kg-day	3.0E-01	mg/kg-day	1.1E-03
			Exp. Route Total								4E-06					2E-01
			Dermal													
				Benzo(a)anthracene	5E-01	mg/kg	4.2E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.1E-08	4.9E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	5E-01	mg/kg	4.5E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.3E-07	5.2E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	1.2E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	8.6E-08	1.4E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	1.1E-07	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	7.8E-09	1.3E-06	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	8E-02	mg/kg	7.1E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	5.2E-08	8.3E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	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
				Phenanthrene	2E+00	mg/kg	1.7E-07	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	2.0E-02	mg/kg-day	9.9E-05
				Arsenic	3E+01	mg/kg	7.2E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.1E-06	8.3E-06	mg/kg-day	3.0E-04	mg/kg-day	2.8E-02
				Cadmium	7E-01	mg/kg	4.7E-09	mg/kg-day	N/A	N/A	N/A	5.4E-08	mg/kg-day	2.5E-05	mg/kg-day	2.2E-03
			Exp. Route Total								2E-06					3E-02
		Exposure Point Total									6E-06					2E-01

TABLE 3-7.3.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station AM	Ingestion													
				Antimony	2E+00	mg/kg	8.1E-08	mg/kg-day	N/A	N/A	N/A	9.5E-07	mg/kg-day	4.0E-04	mg/kg-day	2.4E-03
				Arsenic	1E+02	mg/kg	4.9E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.8E-06	5.7E-05	mg/kg-day	5.9E-04	mg/kg-day	9.7E-02
				Barium	6E+01	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
				Cadmium	4E+00	mg/kg	1.6E-07	mg/kg-day	N/A	N/A	N/A	1.9E-06	mg/kg-day	1.0E-03	mg/kg-day	1.9E-03
				Chromium III	3E+02	mg/kg	1.3E-05	mg/kg-day	N/A	N/A	N/A	1.5E-04	mg/kg-day	1.5E+00	mg/kg-day	1.0E-04
				Copper	2E+02	mg/kg	8.0E-06	mg/kg-day	N/A	N/A	N/A	9.4E-05	mg/kg-day	3.0E-02	mg/kg-day	3.1E-03
				Lead												
				Manganese	1E+03	mg/kg	4.6E-05	mg/kg-day	N/A	N/A	N/A	5.4E-04	mg/kg-day	7.0E-02	mg/kg-day	7.7E-03
				Mercury	2E+00	mg/kg	7.7E-08	mg/kg-day	N/A	N/A	N/A	9.0E-07	mg/kg-day	1.0E-04	mg/kg-day	9.0E-03
				Nickel	2E+01	mg/kg	7.3E-07	mg/kg-day	N/A	N/A	N/A	8.5E-06	mg/kg-day	2.0E-02	mg/kg-day	4.3E-04
				Thallium	4E-01	mg/kg	1.8E-08	mg/kg-day	N/A	N/A	N/A	2.1E-07	mg/kg-day	8.0E-05	mg/kg-day	2.6E-03
				Vanadium	3E+01	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	1.0E-03	mg/kg-day	1.3E-02
				Zinc	9E+02	mg/kg	3.8E-05	mg/kg-day	N/A	N/A	N/A	4.5E-04	mg/kg-day	3.0E-01	mg/kg-day	1.5E-03
			Exp. Route Total								4E-06					1E-01
			Dermal													
				Arsenic	1E+02	mg/kg	8.3E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.2E-06	9.7E-06	mg/kg-day	3.0E-04	mg/kg-day	3.2E-02
				Cadmium	4E+00	mg/kg	8.9E-09	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	2.5E-05	mg/kg-day	4.1E-03
			Exp. Route Total								1E-06					4E-02
		Exposure Point Total									5E-06					2E-01
		Station KF	Ingestion													
				Arsenic	5E+01	mg/kg	6.3E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	4.9E-06	7.4E-05	mg/kg-day	5.9E-04	mg/kg-day	1.2E-01
				Barium	4E+01	mg/kg	5.0E-06	mg/kg-day	N/A	N/A	N/A	5.8E-05	mg/kg-day	7.0E-02	mg/kg-day	8.3E-04
				Cadmium	1E+00	mg/kg	1.3E-07	mg/kg-day	N/A	N/A	N/A	1.5E-06	mg/kg-day	1.0E-03	mg/kg-day	1.5E-03
				Chromium III	9E+01	mg/kg	1.1E-05	mg/kg-day	N/A	N/A	N/A	1.3E-04	mg/kg-day	1.5E+00	mg/kg-day	8.3E-05
				Copper	1E+02	mg/kg	1.4E-05	mg/kg-day	N/A	N/A	N/A	1.6E-04	mg/kg-day	3.0E-02	mg/kg-day	5.3E-03
				Lead												
				Manganese	4E+02	mg/kg	4.4E-05	mg/kg-day	N/A	N/A	N/A	5.2E-04	mg/kg-day	7.0E-02	mg/kg-day	7.4E-03
				Mercury	9E-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
				Nickel	9E+00	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	2.0E-02	mg/kg-day	6.4E-04
				Vanadium	2E+01	mg/kg	2.8E-06	mg/kg-day	N/A	N/A	N/A	3.3E-05	mg/kg-day	1.0E-03	mg/kg-day	3.3E-02
				Zinc	3E+02	mg/kg	4.3E-05	mg/kg-day	N/A	N/A	N/A	5.0E-04	mg/kg-day	3.0E-01	mg/kg-day	1.7E-03
			Exp. Route Total								5E-06					2E-01
			Dermal													
				Arsenic	5E+01	mg/kg	1.1E-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	4.1E-02
				Cadmium	1E+00	mg/kg	7.1E-09	mg/kg-day	N/A	N/A	N/A	8.3E-08	mg/kg-day	2.5E-05	mg/kg-day	3.3E-03
			Exp. Route Total								2E-06					4E-02
		Exposure Point Total									6E-06					2E-01

TABLE 3-7.3.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station 08	Ingestion													
				Benzo(a)anthracene	7E-01	mg/kg	8.3E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.1E-08	9.7E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	9E-01	mg/kg	1.1E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	8.4E-07	1.3E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	2.3E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.7E-07	2.7E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E+00	mg/kg	2.4E-07	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.8E-08	2.8E-06	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	2E-01	mg/kg	2.0E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.4E-07	2.3E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	7E-01	mg/kg	8.3E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.1E-08	9.7E-07	mg/kg-day	N/A	N/A	N/A
				Antimony	2E+00	mg/kg	2.0E-07	mg/kg-day	N/A	N/A	N/A	2.3E-06	mg/kg-day	4.0E-04	mg/kg-day	5.7E-03
				Arsenic	3E+01	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
				Barium	2E+01	mg/kg	2.6E-06	mg/kg-day	N/A	N/A	N/A	3.0E-05	mg/kg-day	7.0E-02	mg/kg-day	4.3E-04
				Chromium III	1E+02	mg/kg	1.5E-05	mg/kg-day	N/A	N/A	N/A	1.7E-04	mg/kg-day	1.5E+00	mg/kg-day	1.1E-04
				Copper	1E+02	mg/kg	1.6E-05	mg/kg-day	N/A	N/A	N/A	1.9E-04	mg/kg-day	3.0E-02	mg/kg-day	6.3E-03
				Lead												
				Manganese	2E+02	mg/kg	2.8E-05	mg/kg-day	N/A	N/A	N/A	3.2E-04	mg/kg-day	7.0E-02	mg/kg-day	4.6E-03
				Mercury	1E+00	mg/kg	1.2E-07	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	1.0E-04	mg/kg-day	1.4E-02
				Nickel	2E+01	mg/kg	2.5E-06	mg/kg-day	N/A	N/A	N/A	2.9E-05	mg/kg-day	2.0E-02	mg/kg-day	1.4E-03
				Thallium	2E+00	mg/kg	2.1E-07	mg/kg-day	N/A	N/A	N/A	2.4E-06	mg/kg-day	8.0E-05	mg/kg-day	3.0E-02
				Vanadium	2E+01	mg/kg	2.1E-06	mg/kg-day	N/A	N/A	N/A	2.5E-05	mg/kg-day	1.0E-03	mg/kg-day	2.5E-02
				Zinc	5E+02	mg/kg	6.6E-05	mg/kg-day	N/A	N/A	N/A	7.7E-04	mg/kg-day	3.0E-01	mg/kg-day	2.6E-03
			Exp. Route Total								4E-06					2E-01
			Dermal													
				Benzo(a)anthracene	7E-01	mg/kg	6.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.4E-08	7.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	9E-01	mg/kg	8.4E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	6.1E-07	9.7E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	1.7E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.2E-07	2.0E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E+00	mg/kg	1.8E-07	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.3E-08	2.1E-06	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	2E-01	mg/kg	1.4E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.0E-07	1.7E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	7E-01	mg/kg	6.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.4E-08	7.1E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	6E-01	mg/kg	5.4E-08	mg/kg-day	N/A	N/A	N/A	6.3E-07	mg/kg-day	2.0E-02	mg/kg-day	3.2E-05
				Arsenic	3E+01	mg/kg	5.9E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	8.9E-07	6.9E-06	mg/kg-day	3.0E-04	mg/kg-day	2.3E-02
			Exp. Route Total								2E-06					2E-02
		Exposure Point Total									6E-06					2E-01

TABLE 3-7.3.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station 07/DP	Ingestion													
				Trichloroethene	2E-02	mg/kg	2.7E-09	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.1E-09	3.2E-08	mg/kg-day	3.0E-04	mg/kg-day	1.1E-04
				Benzo(a)anthracene	6E+00	mg/kg	6.8E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.0E-07	8.0E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	6E+00	mg/kg	6.8E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.9E-06	7.9E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+01	mg/kg	1.2E-06	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	8.5E-07	1.4E-05	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	9E+00	mg/kg	1.1E-06	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	8.2E-08	1.3E-05	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1E+00	mg/kg	1.3E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	9.7E-07	1.5E-06	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	4E+00	mg/kg	4.7E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.4E-07	5.5E-06	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	7E+00	mg/kg	8.3E-07	mg/kg-day	N/A	N/A	N/A	9.7E-06	mg/kg-day	2.0E-02	mg/kg-day	4.9E-04
				Aroclor 1260	7E-02	mg/kg	8.1E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.6E-08	9.5E-08	mg/kg-day	2.0E-05	mg/kg-day	4.7E-03
				Antimony	2E+00	mg/kg	2.8E-07	mg/kg-day	N/A	N/A	N/A	3.3E-06	mg/kg-day	4.0E-04	mg/kg-day	8.3E-03
				Arsenic	8E+01	mg/kg	9.8E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	7.5E-06	1.1E-04	mg/kg-day	5.9E-04	mg/kg-day	1.9E-01
				Barium	8E+01	mg/kg	1.0E-05	mg/kg-day	N/A	N/A	N/A	1.2E-04	mg/kg-day	7.0E-02	mg/kg-day	1.7E-03
				Cadmium	5E+00	mg/kg	6.2E-07	mg/kg-day	N/A	N/A	N/A	7.3E-06	mg/kg-day	1.0E-03	mg/kg-day	7.3E-03
				Chromium III	2E+02	mg/kg	3.0E-05	mg/kg-day	N/A	N/A	N/A	3.5E-04	mg/kg-day	1.5E+00	mg/kg-day	2.4E-04
				Copper	2E+02	mg/kg	2.9E-05	mg/kg-day	N/A	N/A	N/A	3.3E-04	mg/kg-day	3.0E-02	mg/kg-day	1.1E-02
				Lead												
				Manganese	4E+02	mg/kg	5.1E-05	mg/kg-day	N/A	N/A	N/A	5.9E-04	mg/kg-day	7.0E-02	mg/kg-day	8.5E-03
				Mercury	3E+00	mg/kg	3.4E-07	mg/kg-day	N/A	N/A	N/A	4.0E-06	mg/kg-day	1.0E-04	mg/kg-day	4.0E-02
				Nickel	3E+01	mg/kg	3.4E-06	mg/kg-day	N/A	N/A	N/A	3.9E-05	mg/kg-day	2.0E-02	mg/kg-day	2.0E-03
				Thallium	2E+00	mg/kg	2.7E-07	mg/kg-day	N/A	N/A	N/A	3.1E-06	mg/kg-day	8.0E-05	mg/kg-day	3.9E-02
				Vanadium	5E+01	mg/kg	6.3E-06	mg/kg-day	N/A	N/A	N/A	7.4E-05	mg/kg-day	1.0E-03	mg/kg-day	7.4E-02
				Zinc	1E+03	mg/kg	1.6E-04	mg/kg-day	N/A	N/A	N/A	1.9E-03	mg/kg-day	3.0E-01	mg/kg-day	6.4E-03
			Exp. Route Total								2E-05					4E-01
			Dermal													
				Benzo(a)anthracene	6E+00	mg/kg	5.0E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.6E-07	5.8E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	6E+00	mg/kg	4.9E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.6E-06	5.8E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+01	mg/kg	8.5E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.2E-07	9.9E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	9E+00	mg/kg	8.2E-07	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	6.0E-08	9.5E-06	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1E+00	mg/kg	9.6E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	7.0E-07	1.1E-06	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	4E+00	mg/kg	3.4E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.5E-07	4.0E-06	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	7E+00	mg/kg	6.1E-07	mg/kg-day	N/A	N/A	N/A	7.1E-06	mg/kg-day	2.0E-02	mg/kg-day	3.5E-04
				Aroclor 1260	7E-02	mg/kg	6.4E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.3E-08	7.4E-08	mg/kg-day	2.0E-05	mg/kg-day	3.7E-03
				Arsenic	8E+01	mg/kg	1.6E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.5E-06	1.9E-05	mg/kg-day	3.0E-04	mg/kg-day	6.4E-02
				Cadmium	5E+00	mg/kg	3.5E-08	mg/kg-day	N/A	N/A	N/A	4.1E-07	mg/kg-day	2.5E-05	mg/kg-day	1.6E-02
			Exp. Route Total								8E-06					8E-02
		Exposure Point Total									2E-05					5E-01

TABLE 3-7.3.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station LP	Ingestion													
				Antimony	2E+00	mg/kg	2.4E-07	mg/kg-day	N/A	N/A	N/A	2.7E-06	mg/kg-day	4.0E-04	mg/kg-day	6.9E-03
				Arsenic	1E+02	mg/kg	1.8E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.4E-05	2.1E-04	mg/kg-day	5.9E-04	mg/kg-day	3.6E-01
				Barium	4E+01	mg/kg	5.0E-06	mg/kg-day	N/A	N/A	N/A	5.8E-05	mg/kg-day	7.0E-02	mg/kg-day	8.3E-04
				Cadmium	3E+00	mg/kg	3.5E-07	mg/kg-day	N/A	N/A	N/A	4.1E-06	mg/kg-day	1.0E-03	mg/kg-day	4.1E-03
				Chromium III	9E+01	mg/kg	1.1E-05	mg/kg-day	N/A	N/A	N/A	1.2E-04	mg/kg-day	1.5E+00	mg/kg-day	8.3E-05
				Copper	5E+02	mg/kg	5.9E-05	mg/kg-day	N/A	N/A	N/A	6.9E-04	mg/kg-day	3.0E-02	mg/kg-day	2.3E-02
				Lead												
				Manganese	2E+02	mg/kg	2.6E-05	mg/kg-day	N/A	N/A	N/A	3.0E-04	mg/kg-day	7.0E-02	mg/kg-day	4.3E-03
				Mercury	8E-01	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
				Nickel	1E+01	mg/kg	1.8E-06	mg/kg-day	N/A	N/A	N/A	2.1E-05	mg/kg-day	2.0E-02	mg/kg-day	1.0E-03
				Thallium	2E+00	mg/kg	2.4E-07	mg/kg-day	N/A	N/A	N/A	2.8E-06	mg/kg-day	8.0E-05	mg/kg-day	3.5E-02
				Vanadium	2E+01	mg/kg	2.8E-06	mg/kg-day	N/A	N/A	N/A	3.2E-05	mg/kg-day	1.0E-03	mg/kg-day	3.2E-02
				Zinc	2E+03	mg/kg	2.1E-04	mg/kg-day	N/A	N/A	N/A	2.4E-03	mg/kg-day	3.0E-01	mg/kg-day	8.1E-03
			Exp. Route Total								1E-05					5E-01
			Dermal													
				Arsenic	1E+02	mg/kg	3.1E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.6E-06	3.6E-05	mg/kg-day	3.0E-04	mg/kg-day	1.2E-01
				Cadmium	3E+00	mg/kg	2.0E-08	mg/kg-day	N/A	N/A	N/A	2.3E-07	mg/kg-day	2.5E-05	mg/kg-day	9.2E-03
			Exp. Route Total								5E-06					1E-01
		Exposure Point Total									2E-05					6E-01
		Station AS	Ingestion													
				Antimony	3E+00	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	3.4E-03
				Arsenic	1E+02	mg/kg	4.9E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.8E-06	5.7E-05	mg/kg-day	5.9E-04	mg/kg-day	9.7E-02
				Barium	1E+02	mg/kg	4.4E-06	mg/kg-day	N/A	N/A	N/A	5.2E-05	mg/kg-day	7.0E-02	mg/kg-day	7.4E-04
				Cadmium	1E+01	mg/kg	5.4E-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
				Chromium III	9E+02	mg/kg	3.7E-05	mg/kg-day	N/A	N/A	N/A	4.4E-04	mg/kg-day	1.5E+00	mg/kg-day	2.9E-04
				Copper	6E+02	mg/kg	2.3E-05	mg/kg-day	N/A	N/A	N/A	2.7E-04	mg/kg-day	3.0E-02	mg/kg-day	9.1E-03
				Lead												
				Manganese	4E+02	mg/kg	1.6E-05	mg/kg-day	N/A	N/A	N/A	1.8E-04	mg/kg-day	7.0E-02	mg/kg-day	2.6E-03
				Mercury	3E+00	mg/kg	1.3E-07	mg/kg-day	N/A	N/A	N/A	1.5E-06	mg/kg-day	1.0E-04	mg/kg-day	1.5E-02
				Nickel	4E+01	mg/kg	1.6E-06	mg/kg-day	N/A	N/A	N/A	1.9E-05	mg/kg-day	2.0E-02	mg/kg-day	9.4E-04
				Thallium	1E+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	7E+01	mg/kg	3.0E-06	mg/kg-day	N/A	N/A	N/A	3.4E-05	mg/kg-day	1.0E-03	mg/kg-day	3.4E-02
				Zinc	2E+03	mg/kg	9.3E-05	mg/kg-day	N/A	N/A	N/A	1.1E-03	mg/kg-day	3.0E-01	mg/kg-day	3.6E-03
			Exp. Route Total								4E-06					2E-01
			Dermal													
				Arsenic	1E+02	mg/kg	8.3E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.2E-06	9.7E-06	mg/kg-day	3.0E-04	mg/kg-day	3.2E-02
				Cadmium	1E+01	mg/kg	3.0E-08	mg/kg-day	N/A	N/A	N/A	3.5E-07	mg/kg-day	2.5E-05	mg/kg-day	1.4E-02
			Exp. Route Total								1E-06					5E-02
		Exposure Point Total									5E-06					2E-01

TABLE 3-7.3.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station 05	Ingestion													
				Benzo(a)anthracene	2E+00	mg/kg	2.8E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.1E-07	3.3E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	3E+00	mg/kg	3.1E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.2E-06	3.6E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E+00	mg/kg	3.7E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.7E-07	4.3E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E+00	mg/kg	2.3E-07	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.7E-08	2.7E-06	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E+00	mg/kg	1.5E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.1E-07	1.7E-06	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E+00	mg/kg	2.7E-07	mg/kg-day	N/A	N/A	N/A	3.1E-06	mg/kg-day	2.0E-02	mg/kg-day	1.6E-04
				Antimony	2E+00	mg/kg	2.2E-07	mg/kg-day	N/A	N/A	N/A	2.6E-06	mg/kg-day	4.0E-04	mg/kg-day	6.4E-03
				Arsenic	2E+01	mg/kg	3.0E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.3E-06	3.5E-05	mg/kg-day	5.9E-04	mg/kg-day	6.0E-02
				Barium	4E+01	mg/kg	5.3E-06	mg/kg-day	N/A	N/A	N/A	6.2E-05	mg/kg-day	7.0E-02	mg/kg-day	8.8E-04
				Cadmium	2E+00	mg/kg	2.0E-07	mg/kg-day	N/A	N/A	N/A	2.3E-06	mg/kg-day	1.0E-03	mg/kg-day	2.3E-03
				Chromium III	1E+02	mg/kg	1.8E-05	mg/kg-day	N/A	N/A	N/A	2.1E-04	mg/kg-day	1.5E+00	mg/kg-day	1.4E-04
				Copper	8E+01	mg/kg	9.8E-06	mg/kg-day	N/A	N/A	N/A	1.1E-04	mg/kg-day	3.0E-02	mg/kg-day	3.8E-03
				Lead												
				Manganese	1E+03	mg/kg	1.2E-04	mg/kg-day	N/A	N/A	N/A	1.4E-03	mg/kg-day	7.0E-02	mg/kg-day	1.9E-02
				Mercury	1E+00	mg/kg	1.5E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	1.0E-04	mg/kg-day	1.7E-02
				Nickel	1E+01	mg/kg	1.3E-06	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	2.0E-02	mg/kg-day	7.6E-04
				Thallium	1E+00	mg/kg	1.2E-07	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	8.0E-05	mg/kg-day	1.7E-02
				Vanadium	2E+01	mg/kg	2.4E-06	mg/kg-day	N/A	N/A	N/A	2.8E-05	mg/kg-day	1.0E-03	mg/kg-day	2.8E-02
				Zinc	6E+02	mg/kg	7.0E-05	mg/kg-day	N/A	N/A	N/A	8.1E-04	mg/kg-day	3.0E-01	mg/kg-day	2.7E-03
			Exp. Route Total								5E-06					2E-01
			Dermal													
				Benzo(a)anthracene	2E+00	mg/kg	2.0E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.5E-07	2.4E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	3E+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
				Benzo(b)fluoranthene	3E+00	mg/kg	2.7E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.9E-07	3.1E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E+00	mg/kg	1.7E-07	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.2E-08	2.0E-06	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E+00	mg/kg	1.1E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	7.8E-08	1.2E-06	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E+00	mg/kg	2.0E-07	mg/kg-day	N/A	N/A	N/A	2.3E-06	mg/kg-day	2.0E-02	mg/kg-day	1.1E-04
				Arsenic	2E+01	mg/kg	5.1E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	7.6E-07	5.9E-06	mg/kg-day	3.0E-04	mg/kg-day	2.0E-02
				Cadmium	2E+00	mg/kg	1.1E-08	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	2.5E-05	mg/kg-day	5.1E-03
			Exp. Route Total								3E-06					3E-02
		Exposure Point Total									8E-06					2E-01

TABLE 3-7.3.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station 03	Ingestion													
				Benzo(a)anthracene	1E+00	mg/kg	1.6E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.2E-07	1.9E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	1.2E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	8.9E-07	1.4E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	1.7E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.2E-07	2.0E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	6E-01	mg/kg	7.8E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	5.7E-09	9.1E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1E-01	mg/kg	1.3E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	9.8E-08	1.6E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	6E-01	mg/kg	7.6E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.5E-08	8.8E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	1E+00	mg/kg	1.2E-07	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	2.0E-02	mg/kg-day	7.1E-05
				Aroclor 1260	1E-01	mg/kg	1.3E-08	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	2.7E-08	1.6E-07	mg/kg-day	2.0E-05	mg/kg-day	7.8E-03
				Antimony	2E+00	mg/kg	2.1E-07	mg/kg-day	N/A	N/A	N/A	2.4E-06	mg/kg-day	4.0E-04	mg/kg-day	6.1E-03
				Arsenic	9E+01	mg/kg	1.1E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	8.1E-06	1.2E-04	mg/kg-day	5.9E-04	mg/kg-day	2.1E-01
				Barium	8E+01	mg/kg	1.0E-05	mg/kg-day	N/A	N/A	N/A	1.2E-04	mg/kg-day	7.0E-02	mg/kg-day	1.7E-03
				Cadmium	5E+00	mg/kg	6.3E-07	mg/kg-day	N/A	N/A	N/A	7.4E-06	mg/kg-day	1.0E-03	mg/kg-day	7.4E-03
				Chromium III	2E+02	mg/kg	2.4E-05	mg/kg-day	N/A	N/A	N/A	2.8E-04	mg/kg-day	1.5E+00	mg/kg-day	1.9E-04
				Copper	2E+02	mg/kg	2.1E-05	mg/kg-day	N/A	N/A	N/A	2.4E-04	mg/kg-day	3.0E-02	mg/kg-day	8.1E-03
				Lead												
				Manganese	5E+02	mg/kg	6.1E-05	mg/kg-day	N/A	N/A	N/A	7.2E-04	mg/kg-day	7.0E-02	mg/kg-day	1.0E-02
				Mercury	7E-01	mg/kg	8.7E-08	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	1.0E-04	mg/kg-day	1.0E-02
				Nickel	3E+01	mg/kg	3.3E-06	mg/kg-day	N/A	N/A	N/A	3.8E-05	mg/kg-day	2.0E-02	mg/kg-day	1.9E-03
				Vanadium	5E+01	mg/kg	6.0E-06	mg/kg-day	N/A	N/A	N/A	7.0E-05	mg/kg-day	1.0E-03	mg/kg-day	7.0E-02
				Zinc	1E+03	mg/kg	1.7E-04	mg/kg-day	N/A	N/A	N/A	2.0E-03	mg/kg-day	3.0E-01	mg/kg-day	6.7E-03
			Exp. Route Total								9E-06					3E-01
			Dermal													
				Benzo(a)anthracene	1E+00	mg/kg	1.2E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	8.4E-08	1.3E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	8.9E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	6.5E-07	1.0E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	1.2E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.1E-08	1.5E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	6E-01	mg/kg	5.7E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	4.2E-09	6.6E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1E-01	mg/kg	9.8E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	7.1E-08	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	6E-01	mg/kg	5.5E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.0E-08	6.4E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	1E+00	mg/kg	8.9E-08	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	2.0E-02	mg/kg-day	5.2E-05
				Aroclor 1260	1E-01	mg/kg	1.1E-08	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	2.1E-08	1.2E-07	mg/kg-day	2.0E-05	mg/kg-day	6.1E-03
				Arsenic	9E+01	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	5E+00	mg/kg	3.6E-08	mg/kg-day	N/A	N/A	N/A	4.1E-07	mg/kg-day	2.5E-05	mg/kg-day	1.7E-02
			Exp. Route Total								4E-06					9E-02
		Exposure Point Total									1E-05					4E-01

TABLE 3-7.3.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station 01	Ingestion													
				Benzo(a)anthracene	3E-01	mg/kg	3.1E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.2E-08	3.6E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	2.6E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.9E-07	3.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E-01	mg/kg	2.1E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.5E-08	2.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E-01	mg/kg	2.6E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.9E-09	3.0E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	1.5E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.1E-08	1.7E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	5.7E-08	mg/kg-day	N/A	N/A	N/A	6.6E-07	mg/kg-day	2.0E-02	mg/kg-day	3.3E-05
				Antimony	9E-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	3.1E-03
				Arsenic	6E+00	mg/kg	7.5E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	5.8E-07	8.8E-06	mg/kg-day	5.9E-04	mg/kg-day	1.5E-02
				Barium	1E+01	mg/kg	1.5E-06	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	7.0E-02	mg/kg-day	2.5E-04
				Cadmium	2E-01	mg/kg	2.0E-08	mg/kg-day	N/A	N/A	N/A	2.4E-07	mg/kg-day	1.0E-03	mg/kg-day	2.4E-04
				Chromium III	1E+01	mg/kg	1.2E-06	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	1.5E+00	mg/kg-day	9.3E-06
				Copper	2E+01	mg/kg	2.0E-06	mg/kg-day	N/A	N/A	N/A	2.4E-05	mg/kg-day	3.0E-02	mg/kg-day	7.9E-04
				Lead												
				Manganese	1E+02	mg/kg	1.3E-05	mg/kg-day	N/A	N/A	N/A	1.5E-04	mg/kg-day	7.0E-02	mg/kg-day	2.1E-03
				Nickel	7E+00	mg/kg	8.8E-07	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	2.0E-02	mg/kg-day	5.1E-04
				Thallium	5E-01	mg/kg	6.3E-08	mg/kg-day	N/A	N/A	N/A	7.4E-07	mg/kg-day	8.0E-05	mg/kg-day	9.2E-03
				Vanadium	1E+01	mg/kg	1.4E-06	mg/kg-day	N/A	N/A	N/A	1.7E-05	mg/kg-day	1.0E-03	mg/kg-day	1.7E-02
				Zinc	2E+02	mg/kg	1.9E-05	mg/kg-day	N/A	N/A	N/A	2.2E-04	mg/kg-day	3.0E-01	mg/kg-day	7.3E-04
			Exp. Route Total								6E-07					5E-02
			Dermal													
				Benzo(a)anthracene	3E-01	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
				Benzo(a)pyrene	2E-01	mg/kg	1.9E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.4E-07	2.2E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E-01	mg/kg	1.5E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.1E-08	1.8E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E-01	mg/kg	1.9E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.4E-09	2.2E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	1.1E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	7.8E-09	1.2E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	4.1E-08	mg/kg-day	N/A	N/A	N/A	4.8E-07	mg/kg-day	2.0E-02	mg/kg-day	2.4E-05
				Arsenic	6E+00	mg/kg	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	4.9E-03
				Cadmium	2E-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	5.3E-04
			Exp. Route Total								4E-07					5E-03
		Exposure Point Total									1E-06					5E-02
	Exposure Medium Total										N/A					N/A

TABLE 3-7.3.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Soil	Surface Soil	Station NR	Ingestion													
				Arsenic	2E+02	mg/kg	8.2E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.2E-05	9.5E-05	mg/kg-day	3.0E-04	mg/kg-day	3.2E-01
				Cadmium	2E+00	mg/kg	8.7E-08	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	1.0E-03	mg/kg-day	1.0E-03
				Chromium VI	2E+02	mg/kg	7.0E-06	mg/kg-day	N/A	N/A	N/A	8.2E-05	mg/kg-day	3.0E-03	mg/kg-day	2.7E-02
				Copper	2E+02	mg/kg	7.0E-06	mg/kg-day	N/A	N/A	N/A	8.1E-05	mg/kg-day	3.0E-02	mg/kg-day	2.7E-03
				Manganese	8E+02	mg/kg	3.4E-05	mg/kg-day	N/A	N/A	N/A	3.9E-04	mg/kg-day	7.0E-02	mg/kg-day	5.6E-03
				Mercury	2E+00	mg/kg	8.1E-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	3E+01	mg/kg	1.0E-06	mg/kg-day	N/A	N/A	N/A	1.2E-05	mg/kg-day	1.0E-03	mg/kg-day	1.2E-02
				Zinc	5E+02	mg/kg	2.1E-05	mg/kg-day	N/A	N/A	N/A	2.5E-04	mg/kg-day	3.0E-01	mg/kg-day	8.3E-04
			Exp. Route Total								1E-05					4E-01
			Dermal													
				Arsenic	2E+02	mg/kg	1.4E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.1E-06	1.6E-05	mg/kg-day	3.0E-04	mg/kg-day	5.3E-02
				Cadmium	2E+00	mg/kg	4.9E-09	mg/kg-day	N/A	N/A	N/A	5.7E-08	mg/kg-day	2.5E-05	mg/kg-day	2.3E-03
			Exp. Route Total								2E-06					6E-02
		Exposure Point Total									1E-05					4E-01
		Station WS/WSS	Ingestion													
				Arsenic	1E+01	mg/kg	1.6E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.4E-06	1.9E-05	mg/kg-day	3.0E-04	mg/kg-day	6.3E-02
				Cadmium	4E-01	mg/kg	6.0E-08	mg/kg-day	N/A	N/A	N/A	7.0E-07	mg/kg-day	1.0E-03	mg/kg-day	7.0E-04
				Chromium VI	2E+01	mg/kg	3.0E-06	mg/kg-day	N/A	N/A	N/A	3.5E-05	mg/kg-day	3.0E-03	mg/kg-day	1.2E-02
				Copper	3E+01	mg/kg	5.5E-06	mg/kg-day	N/A	N/A	N/A	6.4E-05	mg/kg-day	3.0E-02	mg/kg-day	2.1E-03
				Manganese	2E+02	mg/kg	3.1E-05	mg/kg-day	N/A	N/A	N/A	3.6E-04	mg/kg-day	7.0E-02	mg/kg-day	5.1E-03
				Mercury	1E-01	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	1E+00	mg/kg	1.9E-07	mg/kg-day	N/A	N/A	N/A	2.3E-06	mg/kg-day	8.0E-05	mg/kg-day	2.8E-02
				Vanadium	2E+01	mg/kg	3.9E-06	mg/kg-day	N/A	N/A	N/A	4.5E-05	mg/kg-day	1.0E-03	mg/kg-day	4.5E-02
				Zinc	7E+01	mg/kg	1.2E-05	mg/kg-day	N/A	N/A	N/A	1.4E-04	mg/kg-day	3.0E-01	mg/kg-day	4.5E-04
			Exp. Route Total								2E-06					2E-01
			Dermal													
				Arsenic	1E+01	mg/kg	2.7E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.1E-07	3.2E-06	mg/kg-day	3.0E-04	mg/kg-day	1.1E-02
				Cadmium	4E-01	mg/kg	3.4E-09	mg/kg-day	N/A	N/A	N/A	3.9E-08	mg/kg-day	2.5E-05	mg/kg-day	1.6E-03
			Exp. Route Total								4E-07					1E-02
		Exposure Point Total									3E-06					2E-01

TABLE 3-7.3.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Soil (cont.)	Surface Soil (cont.)	Station CB-05	Ingestion													
				Arsenic	6E+01	mg/kg	9.7E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.5E-05	1.1E-04	mg/kg-day	3.0E-04	mg/kg-day	3.8E-01
				Cadmium	7E-01	mg/kg	1.1E-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
				Chromium VI	1E+02	mg/kg	2.2E-05	mg/kg-day	N/A	N/A	N/A	2.6E-04	mg/kg-day	3.0E-03	mg/kg-day	8.7E-02
				Copper	5E+01	mg/kg	8.2E-06	mg/kg-day	N/A	N/A	N/A	9.6E-05	mg/kg-day	3.0E-02	mg/kg-day	3.2E-03
				Manganese	2E+02	mg/kg	3.7E-05	mg/kg-day	N/A	N/A	N/A	4.3E-04	mg/kg-day	7.0E-02	mg/kg-day	6.1E-03
				Mercury	3E-01	mg/kg	4.7E-08	mg/kg-day	N/A	N/A	N/A	5.5E-07	mg/kg-day	1.0E-04	mg/kg-day	5.5E-03
				Thallium	2E+00	mg/kg	2.7E-07	mg/kg-day	N/A	N/A	N/A	3.1E-06	mg/kg-day	8.0E-05	mg/kg-day	3.9E-02
				Vanadium	3E+01	mg/kg	4.2E-06	mg/kg-day	N/A	N/A	N/A	4.9E-05	mg/kg-day	1.0E-03	mg/kg-day	4.9E-02
				Zinc	2E+02	mg/kg	2.7E-05	mg/kg-day	N/A	N/A	N/A	3.2E-04	mg/kg-day	3.0E-01	mg/kg-day	1.1E-03
			Exp. Route Total								1E-05					6E-01
			Dermal													
				Arsenic	6E+01	mg/kg	1.6E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.5E-06	1.9E-05	mg/kg-day	3.0E-04	mg/kg-day	6.4E-02
				Cadmium	7E-01	mg/kg	6.2E-09	mg/kg-day	N/A	N/A	N/A	7.3E-08	mg/kg-day	2.5E-05	mg/kg-day	2.9E-03
			Exp. Route Total								2E-06					7E-02
		Exposure Point Total									2E-05					6E-01
		Station DA	Ingestion													
				Arsenic	2E+02	mg/kg	2.4E-05	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.6E-05	2.8E-04	mg/kg-day	3.0E-04	mg/kg-day	9.3E-01
				Cadmium	5E+00	mg/kg	5.6E-07	mg/kg-day	N/A	N/A	N/A	6.6E-06	mg/kg-day	1.0E-03	mg/kg-day	6.6E-03
				Chromium VI	4E+02	mg/kg	4.8E-05	mg/kg-day	N/A	N/A	N/A	5.6E-04	mg/kg-day	3.0E-03	mg/kg-day	1.9E-01
				Copper	2E+02	mg/kg	3.0E-05	mg/kg-day	N/A	N/A	N/A	3.5E-04	mg/kg-day	3.0E-02	mg/kg-day	1.2E-02
				Manganese	3E+03	mg/kg	3.5E-04	mg/kg-day	N/A	N/A	N/A	4.1E-03	mg/kg-day	7.0E-02	mg/kg-day	5.8E-02
				Mercury	3E+00	mg/kg	4.2E-07	mg/kg-day	N/A	N/A	N/A	4.8E-06	mg/kg-day	1.0E-04	mg/kg-day	4.8E-02
				Thallium	3E+00	mg/kg	4.1E-07	mg/kg-day	N/A	N/A	N/A	4.8E-06	mg/kg-day	8.0E-05	mg/kg-day	5.9E-02
				Vanadium	4E+01	mg/kg	4.6E-06	mg/kg-day	N/A	N/A	N/A	5.4E-05	mg/kg-day	1.0E-03	mg/kg-day	5.4E-02
				Zinc	6E+02	mg/kg	7.2E-05	mg/kg-day	N/A	N/A	N/A	8.4E-04	mg/kg-day	3.0E-01	mg/kg-day	2.8E-03
			Exp. Route Total								4E-05					1E+00
			Dermal													
				Arsenic	2E+02	mg/kg	4.0E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.0E-06	4.7E-05	mg/kg-day	3.0E-04	mg/kg-day	1.6E-01
				Cadmium	5E+00	mg/kg	3.1E-08	mg/kg-day	N/A	N/A	N/A	3.7E-07	mg/kg-day	2.5E-05	mg/kg-day	1.5E-02
			Exp. Route Total								6E-06					2E-01
		Exposure Point Total									4E-05					2E+00

TABLE 3-7.3.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Soil (cont.)	Surface Soil (cont.)	Station KF	Ingestion													
				Arsenic	5E+01	mg/kg	5.6E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	8.4E-06	6.5E-05	mg/kg-day	3.0E-04	mg/kg-day	2.2E-01
				Cadmium	1E+00	mg/kg	1.7E-07	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	1.0E-03	mg/kg-day	2.0E-03
				Chromium VI	1E+02	mg/kg	1.5E-05	mg/kg-day	N/A	N/A	N/A	1.7E-04	mg/kg-day	3.0E-03	mg/kg-day	5.7E-02
				Copper	1E+02	mg/kg	1.3E-05	mg/kg-day	N/A	N/A	N/A	1.5E-04	mg/kg-day	3.0E-02	mg/kg-day	5.1E-03
				Manganese	8E+02	mg/kg	1.0E-04	mg/kg-day	N/A	N/A	N/A	1.2E-03	mg/kg-day	7.0E-02	mg/kg-day	1.7E-02
				Mercury	7E-01	mg/kg	8.4E-08	mg/kg-day	N/A	N/A	N/A	9.8E-07	mg/kg-day	1.0E-04	mg/kg-day	9.8E-03
				Vanadium	3E+01	mg/kg	3.6E-06	mg/kg-day	N/A	N/A	N/A	4.1E-05	mg/kg-day	1.0E-03	mg/kg-day	4.1E-02
				Zinc	4E+02	mg/kg	4.8E-05	mg/kg-day	N/A	N/A	N/A	5.6E-04	mg/kg-day	3.0E-01	mg/kg-day	1.9E-03
			Exp. Route Total								8E-06					4E-01
			Dermal													
				Arsenic	5E+01	mg/kg	9.4E-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+00	mg/kg	9.6E-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
			Exp. Route Total								1E-06					4E-02
		Exposure Point Total									1E-05					4E-01
		Station 07/DP	Ingestion													
				Arsenic	4E+01	mg/kg	5.4E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	8.2E-06	6.3E-05	mg/kg-day	3.0E-04	mg/kg-day	2.1E-01
				Cadmium	2E-01	mg/kg	2.3E-08	mg/kg-day	N/A	N/A	N/A	2.7E-07	mg/kg-day	1.0E-03	mg/kg-day	2.7E-04
				Chromium VI	1E+02	mg/kg	1.7E-05	mg/kg-day	N/A	N/A	N/A	2.0E-04	mg/kg-day	3.0E-03	mg/kg-day	6.7E-02
				Copper	1E+02	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
				Manganese	3E+02	mg/kg	4.0E-05	mg/kg-day	N/A	N/A	N/A	4.7E-04	mg/kg-day	7.0E-02	mg/kg-day	6.7E-03
				Mercury	1E+00	mg/kg	1.2E-07	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	1.0E-04	mg/kg-day	1.4E-02
				Thallium	2E+00	mg/kg	2.3E-07	mg/kg-day	N/A	N/A	N/A	2.7E-06	mg/kg-day	8.0E-05	mg/kg-day	3.3E-02
				Vanadium	3E+01	mg/kg	3.8E-06	mg/kg-day	N/A	N/A	N/A	4.5E-05	mg/kg-day	1.0E-03	mg/kg-day	4.5E-02
				Zinc	2E+04	mg/kg	2.3E-03	mg/kg-day	N/A	N/A	N/A	2.7E-02	mg/kg-day	3.0E-01	mg/kg-day	9.0E-02
			Exp. Route Total								8E-06					5E-01
			Dermal													
				Arsenic	4E+01	mg/kg	9.1E-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	3.6E-02
				Cadmium	2E-01	mg/kg	1.3E-09	mg/kg-day	N/A	N/A	N/A	1.5E-08	mg/kg-day	2.5E-05	mg/kg-day	6.0E-04
			Exp. Route Total								1E-06					4E-02
		Exposure Point Total									1E-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

TABLE 3-7.3.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	Surface Water	Station NR (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	3.5E-11	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	3.2E-10	1.2E-09	mg/kg-day	1.3E-05	mg/kg-day	9.4E-05
				Arsenic	5E+01	ug/L	8.8E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-08	3.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.0E-03
				Cadmium	4E-01	ug/L	8.2E-11	mg/kg-day	N/A	N/A	N/A	2.9E-09	mg/kg-day	2.5E-05	mg/kg-day	1.1E-04
				Chromium VI	6E+01	ug/L	2.2E-08	mg/kg-day	N/A	N/A	N/A	7.8E-07	mg/kg-day	7.5E-05	mg/kg-day	1.0E-02
				Lead												
				Manganese	6E+02	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.9E-06	mg/kg-day	2.8E-03	mg/kg-day	1.4E-03
				Mercury	6E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	4.1E-09	mg/kg-day	2.1E-05	mg/kg-day	1.9E-04
			Exp. Route Total								1E-08					1E-02
		Exposure Point Total									1E-08					1E-02
		Station 14 (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	3.5E-11	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	3.2E-10	1.2E-09	mg/kg-day	1.3E-05	mg/kg-day	9.4E-05
				Arsenic	5E+01	ug/L	8.8E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-08	3.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.0E-03
				Cadmium	4E-01	ug/L	8.2E-11	mg/kg-day	N/A	N/A	N/A	2.9E-09	mg/kg-day	2.5E-05	mg/kg-day	1.1E-04
				Chromium VI	6E+01	ug/L	2.2E-08	mg/kg-day	N/A	N/A	N/A	7.8E-07	mg/kg-day	7.5E-05	mg/kg-day	1.0E-02
				Lead												
				Manganese	6E+02	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.9E-06	mg/kg-day	2.8E-03	mg/kg-day	1.4E-03
				Mercury	6E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	4.1E-09	mg/kg-day	2.1E-05	mg/kg-day	1.9E-04
			Exp. Route Total								1E-08					1E-02
		Exposure Point Total									1E-08					1E-02
		Station 22/TT-22 (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	3.5E-11	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	3.2E-10	1.2E-09	mg/kg-day	1.3E-05	mg/kg-day	9.4E-05
				Arsenic	5E+01	ug/L	8.8E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-08	3.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.0E-03
				Cadmium	4E-01	ug/L	8.2E-11	mg/kg-day	N/A	N/A	N/A	2.9E-09	mg/kg-day	2.5E-05	mg/kg-day	1.1E-04
				Chromium VI	6E+01	ug/L	2.2E-08	mg/kg-day	N/A	N/A	N/A	7.8E-07	mg/kg-day	7.5E-05	mg/kg-day	1.0E-02
				Lead												
				Manganese	6E+02	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.9E-06	mg/kg-day	2.8E-03	mg/kg-day	1.4E-03
				Mercury	6E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	4.1E-09	mg/kg-day	2.1E-05	mg/kg-day	1.9E-04
			Exp. Route Total								1E-08					1E-02
		Exposure Point Total									1E-08					1E-02

TABLE 3-7.3.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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 (cont.)	Surface Water (cont.)	Station WH (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	3.5E-11	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	3.2E-10	1.2E-09	mg/kg-day	1.3E-05	mg/kg-day	9.4E-05
				Arsenic	5E+01	ug/L	8.8E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-08	3.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.0E-03
				Cadmium	4E-01	ug/L	8.2E-11	mg/kg-day	N/A	N/A	N/A	2.9E-09	mg/kg-day	2.5E-05	mg/kg-day	1.1E-04
				Chromium VI	6E+01	ug/L	2.2E-08	mg/kg-day	N/A	N/A	N/A	7.8E-07	mg/kg-day	7.5E-05	mg/kg-day	1.0E-02
				Lead												
				Manganese	6E+02	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.9E-06	mg/kg-day	2.8E-03	mg/kg-day	1.4E-03
				Mercury	6E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	4.1E-09	mg/kg-day	2.1E-05	mg/kg-day	1.9E-04
			Exp. Route Total								1E-08					1E-02
		Exposure Point Total									1E-08					1E-02
		Station WG (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	3.5E-11	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	3.2E-10	1.2E-09	mg/kg-day	1.3E-05	mg/kg-day	9.4E-05
				Arsenic	5E+01	ug/L	8.8E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-08	3.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.0E-03
				Cadmium	4E-01	ug/L	8.2E-11	mg/kg-day	N/A	N/A	N/A	2.9E-09	mg/kg-day	2.5E-05	mg/kg-day	1.1E-04
				Chromium VI	6E+01	ug/L	2.2E-08	mg/kg-day	N/A	N/A	N/A	7.8E-07	mg/kg-day	7.5E-05	mg/kg-day	1.0E-02
				Lead												
				Manganese	6E+02	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.9E-06	mg/kg-day	2.8E-03	mg/kg-day	1.4E-03
				Mercury	6E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	4.1E-09	mg/kg-day	2.1E-05	mg/kg-day	1.9E-04
			Exp. Route Total								1E-08					1E-02
		Exposure Point Total									1E-08					1E-02
		Station WS/WSS (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	1.0E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	9.5E-10	3.7E-09	mg/kg-day	1.3E-05	mg/kg-day	2.8E-04
				Arsenic	5E+01	ug/L	2.6E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.0E-08	9.2E-07	mg/kg-day	3.0E-04	mg/kg-day	3.1E-03
				Cadmium	4E-01	ug/L	2.5E-10	mg/kg-day	N/A	N/A	N/A	8.6E-09	mg/kg-day	2.5E-05	mg/kg-day	3.4E-04
				Chromium VI	6E+01	ug/L	6.7E-08	mg/kg-day	N/A	N/A	N/A	2.3E-06	mg/kg-day	7.5E-05	mg/kg-day	3.1E-02
				Lead												
				Manganese	6E+02	ug/L	3.3E-07	mg/kg-day	N/A	N/A	N/A	1.2E-05	mg/kg-day	2.8E-03	mg/kg-day	4.1E-03
				Mercury	6E-01	ug/L	3.5E-10	mg/kg-day	N/A	N/A	N/A	1.2E-08	mg/kg-day	2.1E-05	mg/kg-day	5.8E-04
			Exp. Route Total								4E-08					4E-02
		Exposure Point Total									4E-08					4E-02

TABLE 3-7.3.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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 (cont.)	Surface Water (cont.)	Station TT-30 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	1.4E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	5.5E-09	4.8E-07	mg/kg-day	3.0E-04	mg/kg-day	1.6E-03
				Arsenic	2E+01	ug/L	3.0E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.5E-09	1.0E-07	mg/kg-day	3.0E-04	mg/kg-day	3.5E-04
				Cadmium	2E-01	ug/L	4.4E-11	mg/kg-day	N/A	N/A	N/A	1.5E-09	mg/kg-day	2.5E-05	mg/kg-day	6.1E-05
				Chromium VI	8E+00	ug/L	3.1E-09	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	7.5E-05	mg/kg-day	1.5E-03
				Lead												
				Manganese	7E+02	ug/L	1.4E-07	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	2.8E-03	mg/kg-day	1.7E-03
				Mercury	1E-01	ug/L	2.4E-11	mg/kg-day	N/A	N/A	N/A	8.2E-10	mg/kg-day	2.1E-05	mg/kg-day	3.9E-05
			Exp. Route Total								1E-08					5E-03
		Exposure Point Total									1E-08					5E-03
		Station CB-01 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	4.1E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.6E-08	1.4E-06	mg/kg-day	3.0E-04	mg/kg-day	4.8E-03
				Arsenic	2E+01	ug/L	8.9E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-08	3.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.0E-03
				Cadmium	2E-01	ug/L	1.3E-10	mg/kg-day	N/A	N/A	N/A	4.6E-09	mg/kg-day	2.5E-05	mg/kg-day	1.8E-04
				Chromium VI	8E+00	ug/L	9.3E-09	mg/kg-day	N/A	N/A	N/A	3.3E-07	mg/kg-day	7.5E-05	mg/kg-day	4.4E-03
				Lead												
				Manganese	7E+02	ug/L	4.1E-07	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	2.8E-03	mg/kg-day	5.1E-03
				Mercury	1E-01	ug/L	7.1E-11	mg/kg-day	N/A	N/A	N/A	2.5E-09	mg/kg-day	2.1E-05	mg/kg-day	1.2E-04
			Exp. Route Total								3E-08					2E-02
		Exposure Point Total									3E-08					2E-02
		Station CB-02 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	4.1E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.6E-08	1.4E-06	mg/kg-day	3.0E-04	mg/kg-day	4.8E-03
				Arsenic	2E+01	ug/L	8.9E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-08	3.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.0E-03
				Cadmium	2E-01	ug/L	1.3E-10	mg/kg-day	N/A	N/A	N/A	4.6E-09	mg/kg-day	2.5E-05	mg/kg-day	1.8E-04
				Chromium VI	8E+00	ug/L	9.3E-09	mg/kg-day	N/A	N/A	N/A	3.3E-07	mg/kg-day	7.5E-05	mg/kg-day	4.4E-03
				Lead												
				Manganese	7E+02	ug/L	4.1E-07	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	2.8E-03	mg/kg-day	5.1E-03
				Mercury	1E-01	ug/L	7.1E-11	mg/kg-day	N/A	N/A	N/A	2.5E-09	mg/kg-day	2.1E-05	mg/kg-day	1.2E-04
			Exp. Route Total								3E-08					2E-02
		Exposure Point Total									3E-08					2E-02

TABLE 3-7.3.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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 (cont.)	Surface Water (cont.)	Station CB-03 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	4.1E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.6E-08	1.4E-06	mg/kg-day	3.0E-04	mg/kg-day	4.8E-03
				Arsenic	2E+01	ug/L	8.9E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-08	3.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.0E-03
				Cadmium	2E-01	ug/L	1.3E-10	mg/kg-day	N/A	N/A	N/A	4.6E-09	mg/kg-day	2.5E-05	mg/kg-day	1.8E-04
				Chromium VI	8E+00	ug/L	9.3E-09	mg/kg-day	N/A	N/A	N/A	3.3E-07	mg/kg-day	7.5E-05	mg/kg-day	4.4E-03
				Lead												
				Manganese	7E+02	ug/L	4.1E-07	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	2.8E-03	mg/kg-day	5.1E-03
				Mercury	1E-01	ug/L	7.1E-11	mg/kg-day	N/A	N/A	N/A	2.5E-09	mg/kg-day	2.1E-05	mg/kg-day	1.2E-04
			Exp. Route Total								3E-08					2E-02
		Exposure Point Total									3E-08					2E-02
		Station CB-04 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	4.1E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.6E-08	1.4E-06	mg/kg-day	3.0E-04	mg/kg-day	4.8E-03
				Arsenic	2E+01	ug/L	8.9E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-08	3.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.0E-03
				Cadmium	2E-01	ug/L	1.3E-10	mg/kg-day	N/A	N/A	N/A	4.6E-09	mg/kg-day	2.5E-05	mg/kg-day	1.8E-04
				Chromium VI	8E+00	ug/L	9.3E-09	mg/kg-day	N/A	N/A	N/A	3.3E-07	mg/kg-day	7.5E-05	mg/kg-day	4.4E-03
				Lead												
				Manganese	7E+02	ug/L	4.1E-07	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	2.8E-03	mg/kg-day	5.1E-03
				Mercury	1E-01	ug/L	7.1E-11	mg/kg-day	N/A	N/A	N/A	2.5E-09	mg/kg-day	2.1E-05	mg/kg-day	1.2E-04
			Exp. Route Total								3E-08					2E-02
		Exposure Point Total									3E-08					2E-02
		Station CB-06 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	4.1E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.6E-08	1.4E-06	mg/kg-day	3.0E-04	mg/kg-day	4.8E-03
				Arsenic	2E+01	ug/L	8.9E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-08	3.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.0E-03
				Cadmium	2E-01	ug/L	1.3E-10	mg/kg-day	N/A	N/A	N/A	4.6E-09	mg/kg-day	2.5E-05	mg/kg-day	1.8E-04
				Chromium VI	8E+00	ug/L	9.3E-09	mg/kg-day	N/A	N/A	N/A	3.3E-07	mg/kg-day	7.5E-05	mg/kg-day	4.4E-03
				Lead												
				Manganese	7E+02	ug/L	4.1E-07	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	2.8E-03	mg/kg-day	5.1E-03
				Mercury	1E-01	ug/L	7.1E-11	mg/kg-day	N/A	N/A	N/A	2.5E-09	mg/kg-day	2.1E-05	mg/kg-day	1.2E-04
			Exp. Route Total								3E-08					2E-02
		Exposure Point Total									3E-08					2E-02

TABLE 3-7.3.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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 (cont.)	Surface Water (cont.)	Station CB-07 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	1.4E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	5.5E-09	4.8E-07	mg/kg-day	3.0E-04	mg/kg-day	1.6E-03
				Arsenic	2E+01	ug/L	3.0E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.5E-09	1.0E-07	mg/kg-day	3.0E-04	mg/kg-day	3.5E-04
				Cadmium	2E-01	ug/L	4.4E-11	mg/kg-day	N/A	N/A	N/A	1.5E-09	mg/kg-day	2.5E-05	mg/kg-day	6.1E-05
				Chromium VI	8E+00	ug/L	3.1E-09	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	7.5E-05	mg/kg-day	1.5E-03
				Lead												
				Manganese	7E+02	ug/L	1.4E-07	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	2.8E-03	mg/kg-day	1.7E-03
				Mercury	1E-01	ug/L	2.4E-11	mg/kg-day	N/A	N/A	N/A	8.2E-10	mg/kg-day	2.1E-05	mg/kg-day	3.9E-05
			Exp. Route Total								1E-08					5E-03
		Exposure Point Total									1E-08					5E-03
		Station 16/TT-33 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	1.4E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	5.5E-09	4.8E-07	mg/kg-day	3.0E-04	mg/kg-day	1.6E-03
				Arsenic	2E+01	ug/L	3.0E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.5E-09	1.0E-07	mg/kg-day	3.0E-04	mg/kg-day	3.5E-04
				Cadmium	2E-01	ug/L	4.4E-11	mg/kg-day	N/A	N/A	N/A	1.5E-09	mg/kg-day	2.5E-05	mg/kg-day	6.1E-05
				Chromium VI	8E+00	ug/L	3.1E-09	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	7.5E-05	mg/kg-day	1.5E-03
				Lead												
				Manganese	7E+02	ug/L	1.4E-07	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	2.8E-03	mg/kg-day	1.7E-03
				Mercury	1E-01	ug/L	2.4E-11	mg/kg-day	N/A	N/A	N/A	8.2E-10	mg/kg-day	2.1E-05	mg/kg-day	3.9E-05
			Exp. Route Total								1E-08					5E-03
		Exposure Point Total									1E-08					5E-03
		Station 09 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	1.4E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	5.5E-09	4.8E-07	mg/kg-day	3.0E-04	mg/kg-day	1.6E-03
				Arsenic	2E+01	ug/L	3.0E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.5E-09	1.0E-07	mg/kg-day	3.0E-04	mg/kg-day	3.5E-04
				Cadmium	2E-01	ug/L	4.4E-11	mg/kg-day	N/A	N/A	N/A	1.5E-09	mg/kg-day	2.5E-05	mg/kg-day	6.1E-05
				Chromium VI	8E+00	ug/L	3.1E-09	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	7.5E-05	mg/kg-day	1.5E-03
				Lead												
				Manganese	7E+02	ug/L	1.4E-07	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	2.8E-03	mg/kg-day	1.7E-03
				Mercury	1E-01	ug/L	2.4E-11	mg/kg-day	N/A	N/A	N/A	8.2E-10	mg/kg-day	2.1E-05	mg/kg-day	3.9E-05
			Exp. Route Total								1E-08					5E-03
		Exposure Point Total									1E-08					5E-03

TABLE 3-7.3.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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 (cont.)	Surface Water (cont.)	Station DA (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	1.4E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	5.5E-09	4.8E-07	mg/kg-day	3.0E-04	mg/kg-day	1.6E-03
				Arsenic	2E+01	ug/L	3.0E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.5E-09	1.0E-07	mg/kg-day	3.0E-04	mg/kg-day	3.5E-04
				Cadmium	2E-01	ug/L	4.4E-11	mg/kg-day	N/A	N/A	N/A	1.5E-09	mg/kg-day	2.5E-05	mg/kg-day	6.1E-05
				Chromium VI	8E+00	ug/L	3.1E-09	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	7.5E-05	mg/kg-day	1.5E-03
				Lead												
				Manganese	7E+02	ug/L	1.4E-07	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	2.8E-03	mg/kg-day	1.7E-03
				Mercury	1E-01	ug/L	2.4E-11	mg/kg-day	N/A	N/A	N/A	8.2E-10	mg/kg-day	2.1E-05	mg/kg-day	3.9E-05
			Exp. Route Total								1E-08					5E-03
		Exposure Point Total									1E-08					5E-03
		Station AM (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	1.4E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	5.5E-09	4.8E-07	mg/kg-day	3.0E-04	mg/kg-day	1.6E-03
				Arsenic	2E+01	ug/L	3.0E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.5E-09	1.0E-07	mg/kg-day	3.0E-04	mg/kg-day	3.5E-04
				Cadmium	2E-01	ug/L	4.4E-11	mg/kg-day	N/A	N/A	N/A	1.5E-09	mg/kg-day	2.5E-05	mg/kg-day	6.1E-05
				Chromium VI	8E+00	ug/L	3.1E-09	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	7.5E-05	mg/kg-day	1.5E-03
				Lead												
				Manganese	7E+02	ug/L	1.4E-07	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	2.8E-03	mg/kg-day	1.7E-03
				Mercury	1E-01	ug/L	2.4E-11	mg/kg-day	N/A	N/A	N/A	8.2E-10	mg/kg-day	2.1E-05	mg/kg-day	3.9E-05
			Exp. Route Total								1E-08					5E-03
		Exposure Point Total									1E-08					5E-03
		Station KF (Lower Reach 2)	Dermal	Arsenic	7E+00	ug/L	1.3E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.9E-09	4.5E-08	mg/kg-day	3.0E-04	mg/kg-day	1.5E-04
				Chromium VI	2E+00	ug/L	8.4E-10	mg/kg-day	N/A	N/A	N/A	2.9E-08	mg/kg-day	7.5E-05	mg/kg-day	3.9E-04
				Manganese	4E+02	ug/L	6.8E-08	mg/kg-day	N/A	N/A	N/A	2.4E-06	mg/kg-day	2.8E-03	mg/kg-day	8.5E-04
			Exp. Route Total								2E-09					1E-03
		Exposure Point Total									2E-09					1E-03
		Station 08 (Lower Reach 2)	Dermal	Arsenic	7E+00	ug/L	1.3E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.9E-09	4.5E-08	mg/kg-day	3.0E-04	mg/kg-day	1.5E-04
				Chromium VI	2E+00	ug/L	8.4E-10	mg/kg-day	N/A	N/A	N/A	2.9E-08	mg/kg-day	7.5E-05	mg/kg-day	3.9E-04
				Manganese	4E+02	ug/L	6.8E-08	mg/kg-day	N/A	N/A	N/A	2.4E-06	mg/kg-day	2.8E-03	mg/kg-day	8.5E-04
			Exp. Route Total								2E-09					1E-03
		Exposure Point Total									2E-09					1E-03

TABLE 3-7.3.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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 (cont.)	Surface Water (cont.)	Station 07/DP (Reach 3)	Dermal	Chromium VI	3E+00	ug/L	1.2E-09	mg/kg-day	N/A	N/A	N/A	4.1E-08	mg/kg-day	7.5E-05	mg/kg-day	5.5E-04
				Lead												
				Manganese	6E+02	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.9E-06	mg/kg-day	2.8E-03	mg/kg-day	1.4E-03
				Mercury	2E-01	ug/L	4.2E-11	mg/kg-day	N/A	N/A	N/A	1.5E-09	mg/kg-day	2.1E-05	mg/kg-day	7.0E-05
			Exp. Route Total								N/A					2E-03
		Exposure Point Total									N/A					2E-03
		Station LP (Reach 3)	Dermal	Chromium VI	3E+00	ug/L	1.2E-09	mg/kg-day	N/A	N/A	N/A	4.1E-08	mg/kg-day	7.5E-05	mg/kg-day	5.5E-04
				Lead												
				Manganese	6E+02	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.9E-06	mg/kg-day	2.8E-03	mg/kg-day	1.4E-03
				Mercury	2E-01	ug/L	4.2E-11	mg/kg-day	N/A	N/A	N/A	1.5E-09	mg/kg-day	2.1E-05	mg/kg-day	7.0E-05
			Exp. Route Total								N/A					2E-03
		Exposure Point Total									N/A					2E-03
		Station AS (Reach 3)	Dermal	Chromium VI	3E+00	ug/L	1.2E-09	mg/kg-day	N/A	N/A	N/A	4.1E-08	mg/kg-day	7.5E-05	mg/kg-day	5.5E-04
				Lead												
				Manganese	6E+02	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.9E-06	mg/kg-day	2.8E-03	mg/kg-day	1.4E-03
				Mercury	2E-01	ug/L	4.2E-11	mg/kg-day	N/A	N/A	N/A	1.5E-09	mg/kg-day	2.1E-05	mg/kg-day	7.0E-05
			Exp. Route Total								N/A					2E-03
		Exposure Point Total									N/A					2E-03
		Station 06 (Reach 4)	Dermal	Chromium VI	4E+00	ug/L	1.6E-09	mg/kg-day	N/A	N/A	N/A	5.7E-08	mg/kg-day	7.5E-05	mg/kg-day	7.6E-04
				Lead												
				Manganese	5E+02	ug/L	9.6E-08	mg/kg-day	N/A	N/A	N/A	3.4E-06	mg/kg-day	2.8E-03	mg/kg-day	1.2E-03
			Exp. Route Total								N/A					2E-03
		Exposure Point Total									N/A					2E-03
		Station 05 (Reach 5)	Dermal	Chloroform	1E+00	ug/L	3.5E-09	mg/kg-day	N/A	N/A	N/A	1.2E-07	mg/kg-day	1.0E-02	mg/kg-day	1.2E-05
				Tetrachloroethene	2E+00	ug/L	4.6E-08	mg/kg-day	5.4E-01	(mg/kg-day) $^{-1}$	2.5E-08	1.6E-06	mg/kg-day	1.0E-02	mg/kg-day	1.6E-04
				Chromium VI	9E-01	ug/L	3.2E-10	mg/kg-day	N/A	N/A	N/A	1.1E-08	mg/kg-day	7.5E-05	mg/kg-day	1.5E-04
				Manganese	3E+02	ug/L	6.1E-08	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	2.8E-03	mg/kg-day	7.6E-04
			Exp. Route Total								2E-08					1E-03
		Exposure Point Total									2E-08					1E-03

TABLE 3-7.3.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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 (cont.)	Surface Water (cont.)	Station 04	Dermal													
		(Upper Reach 6)		Arsenic	4E+00	ug/L	7.1E-10	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.1E-09	2.5E-08	mg/kg-day	3.0E-04	mg/kg-day	8.3E-05
				Chromium VI	2E+00	ug/L	6.5E-10	mg/kg-day	N/A	N/A	N/A	2.3E-08	mg/kg-day	7.5E-05	mg/kg-day	3.1E-04
				Lead												
				Manganese	2E+02	ug/L	4.0E-08	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	2.8E-03	mg/kg-day	5.0E-04
				Mercury	7E-02	ug/L	1.3E-11	mg/kg-day	N/A	N/A	N/A	4.6E-10	mg/kg-day	2.1E-05	mg/kg-day	2.2E-05
			Exp. Route Total								1E-09					9E-04
		Exposure Point Total									1E-09					9E-04
		Station 03	Dermal													
		(Upper Reach 6)		Arsenic	4E+00	ug/L	7.1E-10	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.1E-09	2.5E-08	mg/kg-day	3.0E-04	mg/kg-day	8.3E-05
				Chromium VI	2E+00	ug/L	6.5E-10	mg/kg-day	N/A	N/A	N/A	2.3E-08	mg/kg-day	7.5E-05	mg/kg-day	3.1E-04
				Lead												
				Manganese	2E+02	ug/L	4.0E-08	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	2.8E-03	mg/kg-day	5.0E-04
				Mercury	7E-02	ug/L	1.3E-11	mg/kg-day	N/A	N/A	N/A	4.6E-10	mg/kg-day	2.1E-05	mg/kg-day	2.2E-05
			Exp. Route Total								1E-09					9E-04
		Exposure Point Total									1E-09					9E-04
		Station 02	Dermal													
		(Upper Reach 6)		Arsenic	4E+00	ug/L	7.1E-10	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.1E-09	2.5E-08	mg/kg-day	3.0E-04	mg/kg-day	8.3E-05
				Chromium VI	2E+00	ug/L	6.5E-10	mg/kg-day	N/A	N/A	N/A	2.3E-08	mg/kg-day	7.5E-05	mg/kg-day	3.1E-04
				Lead												
				Manganese	2E+02	ug/L	4.0E-08	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	2.8E-03	mg/kg-day	5.0E-04
				Mercury	7E-02	ug/L	1.3E-11	mg/kg-day	N/A	N/A	N/A	4.6E-10	mg/kg-day	2.1E-05	mg/kg-day	2.2E-05
			Exp. Route Total								1E-09					9E-04
		Exposure Point Total									1E-09					9E-04

TABLE 3-7.3.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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 (cont.)	Surface Water (cont.)	Station 01 (Lower Reach 6)	Ingestion													
				Arsenic	3E+00	ug/L	2.0E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.0E-09	7.1E-08	mg/kg-day	3.0E-04	mg/kg-day	2.4E-04
				Chromium VI	2E+00	ug/L	9.8E-10	mg/kg-day	N/A	N/A	N/A	3.4E-08	mg/kg-day	3.0E-03	mg/kg-day	1.1E-05
				Lead												
				Manganese	7E+01	ug/L	4.6E-08	mg/kg-day	N/A	N/A	N/A	1.6E-06	mg/kg-day	7.0E-02	mg/kg-day	2.3E-05
				Mercury	4E-02	ug/L	2.6E-11	mg/kg-day	N/A	N/A	N/A	9.1E-10	mg/kg-day	3.0E-04	mg/kg-day	3.0E-06
			Exp. Route Total								3E-09					3E-04
			Dermal													
				Arsenic	3E+00	ug/L	2.7E-10	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.0E-10	9.3E-09	mg/kg-day	3.0E-04	mg/kg-day	3.1E-05
				Chromium VI	2E+00	ug/L	2.6E-10	mg/kg-day	N/A	N/A	N/A	9.0E-09	mg/kg-day	7.5E-05	mg/kg-day	1.2E-04
				Lead												
				Manganese	7E+01	ug/L	6.1E-09	mg/kg-day	N/A	N/A	N/A	2.1E-07	mg/kg-day	2.8E-03	mg/kg-day	7.6E-05
				Mercury	4E-02	ug/L	3.4E-12	mg/kg-day	N/A	N/A	N/A	1.2E-10	mg/kg-day	2.1E-05	mg/kg-day	5.7E-06
			Exp. Route Total								4E-10					2E-04
		Exposure Point Total									3E-09					5E-04
	Exposure Medium Total										N/A					N/A
Sediment	Sediment	Station NR	Ingestion													
				Arsenic	2E+02	mg/kg	1.5E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.1E-06	5.1E-05	mg/kg-day	5.9E-04	mg/kg-day	8.6E-02
				Barium	6E+01	mg/kg	3.8E-07	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	7.0E-02	mg/kg-day	1.9E-04
				Cadmium	2E+00	mg/kg	1.5E-08	mg/kg-day	N/A	N/A	N/A	5.2E-07	mg/kg-day	1.0E-03	mg/kg-day	5.2E-04
				Chromium III	3E+02	mg/kg	1.7E-06	mg/kg-day	N/A	N/A	N/A	6.0E-05	mg/kg-day	1.5E+00	mg/kg-day	4.0E-05
				Copper	3E+02	mg/kg	2.1E-06	mg/kg-day	N/A	N/A	N/A	7.2E-05	mg/kg-day	3.0E-02	mg/kg-day	2.4E-03
				Lead												
				Manganese	2E+02	mg/kg	1.7E-06	mg/kg-day	N/A	N/A	N/A	5.9E-05	mg/kg-day	7.0E-02	mg/kg-day	8.4E-04
				Mercury	4E+00	mg/kg	3.1E-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
				Nickel	1E+01	mg/kg	9.5E-08	mg/kg-day	N/A	N/A	N/A	3.3E-06	mg/kg-day	2.0E-02	mg/kg-day	1.7E-04
				Vanadium	3E+01	mg/kg	2.1E-07	mg/kg-day	N/A	N/A	N/A	7.3E-06	mg/kg-day	1.0E-03	mg/kg-day	7.3E-03
				Zinc	5E+02	mg/kg	3.3E-06	mg/kg-day	N/A	N/A	N/A	1.2E-04	mg/kg-day	3.0E-01	mg/kg-day	3.8E-04
			Exp. Route Total								1E-06					1E-01
			Dermal													
				Arsenic	2E+02	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
				Cadmium	2E+00	mg/kg	1.7E-09	mg/kg-day	N/A	N/A	N/A	5.8E-08	mg/kg-day	2.5E-05	mg/kg-day	2.3E-03
			Exp. Route Total								7E-07					6E-02
		Exposure Point Total									2E-06					2E-01

TABLE 3-7.3.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station 14	Ingestion													
				Benzo(a)anthracene	1E+00	mg/kg	6.6E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.8E-09	2.3E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	9E-01	mg/kg	6.0E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.4E-08	2.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	9.8E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	7.1E-09	3.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	7.5E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	5.4E-10	2.6E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E+00	mg/kg	1.0E-08	mg/kg-day	N/A	N/A	N/A	3.6E-07	mg/kg-day	2.0E-02	mg/kg-day	1.8E-05
				Antimony	9E-01	mg/kg	6.2E-09	mg/kg-day	N/A	N/A	N/A	2.2E-07	mg/kg-day	4.0E-04	mg/kg-day	5.4E-04
				Arsenic	6E+01	mg/kg	4.2E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.2E-07	1.5E-05	mg/kg-day	5.9E-04	mg/kg-day	2.5E-02
				Barium	2E+01	mg/kg	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.8E-06	mg/kg-day	7.0E-02	mg/kg-day	5.4E-05
				Cadmium	6E-01	mg/kg	4.4E-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
				Chromium III	1E+02	mg/kg	7.1E-07	mg/kg-day	N/A	N/A	N/A	2.5E-05	mg/kg-day	1.5E+00	mg/kg-day	1.6E-05
				Copper	6E+01	mg/kg	3.9E-07	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	3.0E-02	mg/kg-day	4.5E-04
				Lead												
				Manganese	1E+02	mg/kg	9.0E-07	mg/kg-day	N/A	N/A	N/A	3.1E-05	mg/kg-day	7.0E-02	mg/kg-day	4.5E-04
				Mercury	6E-01	mg/kg	4.0E-09	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	1.0E-04	mg/kg-day	1.4E-03
				Nickel	7E+00	mg/kg	5.0E-08	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	2.0E-02	mg/kg-day	8.7E-05
				Thallium	5E-01	mg/kg	3.3E-09	mg/kg-day	N/A	N/A	N/A	1.2E-07	mg/kg-day	8.0E-05	mg/kg-day	1.5E-03
				Vanadium	1E+01	mg/kg	7.8E-08	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+02	mg/kg	1.5E-06	mg/kg-day	N/A	N/A	N/A	5.2E-05	mg/kg-day	3.0E-01	mg/kg-day	1.7E-04
			Exp. Route Total								4E-07					3E-02
			Dermal													
				Benzo(a)anthracene	1E+00	mg/kg	9.5E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	7.0E-09	3.3E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	9E-01	mg/kg	8.8E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	6.4E-08	3.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	1.4E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.0E-08	5.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	1.1E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	7.9E-10	3.8E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E+00	mg/kg	1.5E-08	mg/kg-day	N/A	N/A	N/A	5.2E-07	mg/kg-day	2.0E-02	mg/kg-day	2.6E-05
				Arsenic	6E+01	mg/kg	1.4E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.1E-07	4.9E-06	mg/kg-day	3.0E-04	mg/kg-day	1.6E-02
				Cadmium	6E-01	mg/kg	4.9E-10	mg/kg-day	N/A	N/A	N/A	1.7E-08	mg/kg-day	2.5E-05	mg/kg-day	6.8E-04
			Exp. Route Total								3E-07					2E-02
		Exposure Point Total									7E-07					5E-02

TABLE 3-7.3.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station 22/TT-22	Ingestion													
				Tetrachloroethene	3E+00	mg/kg	1.9E-08	mg/kg-day	5.4E-01	(mg/kg-day) $^{-1}$	1.0E-08	6.6E-07	mg/kg-day	1.0E-02	mg/kg-day	6.6E-05
				Trichloroethene	7E-01	mg/kg	4.7E-09	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.9E-09	1.7E-07	mg/kg-day	3.0E-04	mg/kg-day	5.5E-04
				Benzo(a)anthracene	3E-01	mg/kg	2.0E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.5E-09	7.1E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	1.4E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	9.9E-09	4.7E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	4E-01	mg/kg	2.7E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.0E-09	9.3E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	4E-01	mg/kg	2.9E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	2.1E-10	1.0E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	4E-02	mg/kg	3.0E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.2E-09	1.0E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	2E-01	mg/kg	1.5E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.1E-09	5.2E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	4E-01	mg/kg	2.7E-09	mg/kg-day	N/A	N/A	N/A	9.5E-08	mg/kg-day	2.0E-02	mg/kg-day	4.7E-06
				Aroclor 1260	3E-02	mg/kg	2.0E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	2.0E-10	6.9E-09	mg/kg-day	2.0E-05	mg/kg-day	3.4E-04
				Antimony	7E+01	mg/kg	4.7E-07	mg/kg-day	N/A	N/A	N/A	1.7E-05	mg/kg-day	4.0E-04	mg/kg-day	4.1E-02
				Arsenic	8E+01	mg/kg	5.2E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	4.0E-07	1.8E-05	mg/kg-day	5.9E-04	mg/kg-day	3.1E-02
				Barium	5E+01	mg/kg	3.4E-07	mg/kg-day	N/A	N/A	N/A	1.2E-05	mg/kg-day	7.0E-02	mg/kg-day	1.7E-04
				Cadmium	1E+00	mg/kg	9.7E-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
				Chromium III	6E+01	mg/kg	4.4E-07	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	1.5E+00	mg/kg-day	1.0E-05
				Copper	3E+01	mg/kg	2.0E-07	mg/kg-day	N/A	N/A	N/A	7.0E-06	mg/kg-day	3.0E-02	mg/kg-day	2.3E-04
				Lead												
				Manganese	1E+02	mg/kg	7.9E-07	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	5E-01	mg/kg	3.2E-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
				Nickel	1E+01	mg/kg	7.7E-08	mg/kg-day	N/A	N/A	N/A	2.7E-06	mg/kg-day	2.0E-02	mg/kg-day	1.3E-04
				Vanadium	4E+01	mg/kg	2.8E-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	1E+02	mg/kg	6.5E-07	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	3.0E-01	mg/kg-day	7.6E-05
			Exp. Route Total								4E-07					9E-02
			Dermal													
				Benzo(a)anthracene	3E-01	mg/kg	3.0E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.2E-09	1.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	2.0E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.4E-08	6.9E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	4E-01	mg/kg	3.9E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.8E-09	1.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	4E-01	mg/kg	4.2E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	3.0E-10	1.5E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	4E-02	mg/kg	4.3E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.2E-09	1.5E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	2E-01	mg/kg	2.2E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.6E-09	7.6E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	4E-01	mg/kg	3.9E-09	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	2.0E-02	mg/kg-day	6.9E-06
				Aroclor 1260	3E-02	mg/kg	3.1E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	3.1E-10	1.1E-08	mg/kg-day	2.0E-05	mg/kg-day	5.4E-04
				Arsenic	8E+01	mg/kg	1.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.6E-07	6.2E-06	mg/kg-day	3.0E-04	mg/kg-day	2.1E-02
				Cadmium	1E+00	mg/kg	1.1E-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-07					2E-02
		Exposure Point Total									7E-07					1E-01

TABLE 3-7.3.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station WH	Ingestion													
				Trichloroethene	5E-02	mg/kg	3.6E-10	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.4E-10	1.3E-08	mg/kg-day	3.0E-04	mg/kg-day	4.2E-05
				Benzo(a)anthracene	4E-01	mg/kg	2.9E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.1E-09	1.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	6.8E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	5.0E-08	2.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	9E-01	mg/kg	6.1E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.5E-09	2.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	7E-01	mg/kg	4.7E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	3.4E-10	1.6E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	2.1E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.5E-08	7.4E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	5E-01	mg/kg	3.5E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.6E-09	1.2E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	4E-01	mg/kg	3.0E-09	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	2.0E-02	mg/kg-day	5.2E-06
				Aroclor 1260	4E-02	mg/kg	2.8E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	2.8E-10	9.8E-09	mg/kg-day	2.0E-05	mg/kg-day	4.9E-04
				Antimony	3E+01	mg/kg	2.4E-07	mg/kg-day	N/A	N/A	N/A	8.3E-06	mg/kg-day	4.0E-04	mg/kg-day	2.1E-02
				Arsenic	2E+03	mg/kg	1.3E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.0E-05	4.5E-04	mg/kg-day	5.9E-04	mg/kg-day	7.7E-01
				Barium	9E+01	mg/kg	6.3E-07	mg/kg-day	N/A	N/A	N/A	2.2E-05	mg/kg-day	7.0E-02	mg/kg-day	3.1E-04
				Cadmium	1E+01	mg/kg	7.3E-08	mg/kg-day	N/A	N/A	N/A	2.6E-06	mg/kg-day	1.0E-03	mg/kg-day	2.6E-03
				Chromium III	1E+03	mg/kg	8.0E-06	mg/kg-day	N/A	N/A	N/A	2.8E-04	mg/kg-day	1.5E+00	mg/kg-day	1.9E-04
				Copper	1E+03	mg/kg	8.1E-06	mg/kg-day	N/A	N/A	N/A	2.8E-04	mg/kg-day	3.0E-02	mg/kg-day	9.4E-03
				Lead												
				Manganese	5E+02	mg/kg	3.5E-06	mg/kg-day	N/A	N/A	N/A	1.2E-04	mg/kg-day	7.0E-02	mg/kg-day	1.7E-03
				Mercury	3E+01	mg/kg	1.9E-07	mg/kg-day	N/A	N/A	N/A	6.5E-06	mg/kg-day	1.0E-04	mg/kg-day	6.5E-02
				Nickel	4E+01	mg/kg	2.8E-07	mg/kg-day	N/A	N/A	N/A	9.6E-06	mg/kg-day	2.0E-02	mg/kg-day	4.8E-04
				Thallium	8E-01	mg/kg	5.2E-09	mg/kg-day	N/A	N/A	N/A	1.8E-07	mg/kg-day	8.0E-05	mg/kg-day	2.3E-03
				Vanadium	1E+02	mg/kg	6.6E-07	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	1.0E-03	mg/kg-day	2.3E-02
				Zinc	2E+03	mg/kg	1.6E-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
				Chromium VI	2E+00	mg/kg	1.0E-08	mg/kg-day	N/A	N/A	N/A	3.6E-07	mg/kg-day	3.0E-03	mg/kg-day	1.2E-04
			Exp. Route Total								1E-05					9E-01
			Dermal													
				Benzo(a)anthracene	4E-01	mg/kg	4.2E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.1E-09	1.5E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	9.9E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	7.2E-08	3.5E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	9E-01	mg/kg	8.9E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.5E-09	3.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	7E-01	mg/kg	6.8E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	5.0E-10	2.4E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	3.1E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.2E-08	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	5E-01	mg/kg	5.1E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.7E-09	1.8E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	4E-01	mg/kg	4.3E-09	mg/kg-day	N/A	N/A	N/A	1.5E-07	mg/kg-day	2.0E-02	mg/kg-day	7.5E-06
				Aroclor 1260	4E-02	mg/kg	4.4E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	4.4E-10	1.5E-08	mg/kg-day	2.0E-05	mg/kg-day	7.7E-04
				Arsenic	2E+03	mg/kg	4.4E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.5E-06	1.5E-04	mg/kg-day	3.0E-04	mg/kg-day	5.1E-01
				Cadmium	1E+01	mg/kg	8.2E-09	mg/kg-day	N/A	N/A	N/A	2.9E-07	mg/kg-day	2.5E-05	mg/kg-day	1.1E-02
			Exp. Route Total								7E-06					5E-01
		Exposure Point Total									2E-05					1E+00

TABLE 3-7.3.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station WG	Ingestion													
				Trichloroethene	4E-02	mg/kg	2.8E-10	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.1E-10	1.0E-08	mg/kg-day	3.0E-04	mg/kg-day	3.3E-05
				Benzo(a)anthracene	1E-01	mg/kg	8.8E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.4E-10	3.1E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	1.1E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	7.9E-09	3.8E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E-01	mg/kg	2.0E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.4E-09	6.9E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E-01	mg/kg	1.4E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	9.9E-11	4.7E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	5E-02	mg/kg	3.1E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.3E-09	1.1E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	9.5E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.9E-10	3.3E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E-01	mg/kg	1.1E-09	mg/kg-day	N/A	N/A	N/A	3.8E-08	mg/kg-day	2.0E-02	mg/kg-day	1.9E-06
				Aroclor 1260	1E-02	mg/kg	7.5E-11	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	7.5E-11	2.6E-09	mg/kg-day	2.0E-05	mg/kg-day	1.3E-04
				Antimony	9E+00	mg/kg	6.2E-08	mg/kg-day	N/A	N/A	N/A	2.2E-06	mg/kg-day	4.0E-04	mg/kg-day	5.4E-03
				Arsenic	3E+02	mg/kg	1.8E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.4E-06	6.2E-05	mg/kg-day	5.9E-04	mg/kg-day	1.1E-01
				Barium	9E+01	mg/kg	6.4E-07	mg/kg-day	N/A	N/A	N/A	2.2E-05	mg/kg-day	7.0E-02	mg/kg-day	3.2E-04
				Cadmium	6E+00	mg/kg	4.3E-08	mg/kg-day	N/A	N/A	N/A	1.5E-06	mg/kg-day	1.0E-03	mg/kg-day	1.5E-03
				Chromium III	9E+02	mg/kg	6.3E-06	mg/kg-day	N/A	N/A	N/A	2.2E-04	mg/kg-day	1.5E+00	mg/kg-day	1.5E-04
				Copper	6E+02	mg/kg	4.3E-06	mg/kg-day	N/A	N/A	N/A	1.5E-04	mg/kg-day	3.0E-02	mg/kg-day	5.0E-03
				Lead												
				Manganese	1E+03	mg/kg	6.9E-06	mg/kg-day	N/A	N/A	N/A	2.4E-04	mg/kg-day	7.0E-02	mg/kg-day	3.4E-03
				Mercury	3E+00	mg/kg	2.0E-08	mg/kg-day	N/A	N/A	N/A	7.0E-07	mg/kg-day	1.0E-04	mg/kg-day	7.0E-03
				Nickel	3E+01	mg/kg	2.4E-07	mg/kg-day	N/A	N/A	N/A	8.2E-06	mg/kg-day	2.0E-02	mg/kg-day	4.1E-04
				Thallium	4E-01	mg/kg	3.0E-09	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	8.0E-05	mg/kg-day	1.3E-03
				Vanadium	7E+01	mg/kg	4.4E-07	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	1.0E-03	mg/kg-day	1.5E-02
				Zinc	1E+03	mg/kg	7.4E-06	mg/kg-day	N/A	N/A	N/A	2.6E-04	mg/kg-day	3.0E-01	mg/kg-day	8.6E-04
			Exp. Route Total								1E-06					1E-01
			Dermal													
				Benzo(a)anthracene	1E-01	mg/kg	1.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.4E-10	4.5E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	1.6E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.2E-08	5.5E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E-01	mg/kg	2.9E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.1E-09	1.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E-01	mg/kg	2.0E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.4E-10	6.9E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	5E-02	mg/kg	4.5E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.3E-09	1.6E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	1.4E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.0E-09	4.8E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E-01	mg/kg	1.6E-09	mg/kg-day	N/A	N/A	N/A	5.5E-08	mg/kg-day	2.0E-02	mg/kg-day	2.8E-06
				Aroclor 1260	1E-02	mg/kg	1.2E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	1.2E-10	4.1E-09	mg/kg-day	2.0E-05	mg/kg-day	2.0E-04
				Arsenic	3E+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	6E+00	mg/kg	4.8E-09	mg/kg-day	N/A	N/A	N/A	1.7E-07	mg/kg-day	2.5E-05	mg/kg-day	6.8E-03
			Exp. Route Total								9E-07					8E-02
		Exposure Point Total									2E-06					2E-01

TABLE 3-7.3.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station WS/WSS	Ingestion													
				Antimony	5E+00	mg/kg	1.0E-07	mg/kg-day	N/A	N/A	N/A	3.5E-06	mg/kg-day	4.0E-04	mg/kg-day	8.8E-03
				Arsenic	2E+02	mg/kg	4.6E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.5E-06	1.6E-04	mg/kg-day	5.9E-04	mg/kg-day	2.7E-01
				Barium	1E+02	mg/kg	2.9E-06	mg/kg-day	N/A	N/A	N/A	1.0E-04	mg/kg-day	7.0E-02	mg/kg-day	1.4E-03
				Cadmium	1E+01	mg/kg	2.2E-07	mg/kg-day	N/A	N/A	N/A	7.6E-06	mg/kg-day	1.0E-03	mg/kg-day	7.6E-03
				Chromium III	7E+02	mg/kg	1.5E-05	mg/kg-day	N/A	N/A	N/A	5.2E-04	mg/kg-day	1.5E+00	mg/kg-day	3.5E-04
				Copper	4E+02	mg/kg	8.4E-06	mg/kg-day	N/A	N/A	N/A	2.9E-04	mg/kg-day	3.0E-02	mg/kg-day	9.8E-03
				Lead												
				Manganese	1E+03	mg/kg	2.5E-05	mg/kg-day	N/A	N/A	N/A	8.7E-04	mg/kg-day	7.0E-02	mg/kg-day	1.2E-02
				Mercury	1E+00	mg/kg	2.8E-08	mg/kg-day	N/A	N/A	N/A	9.7E-07	mg/kg-day	1.0E-04	mg/kg-day	9.7E-03
				Nickel	4E+01	mg/kg	7.4E-07	mg/kg-day	N/A	N/A	N/A	2.6E-05	mg/kg-day	2.0E-02	mg/kg-day	1.3E-03
				Thallium	1E+00	mg/kg	2.2E-08	mg/kg-day	N/A	N/A	N/A	7.9E-07	mg/kg-day	8.0E-05	mg/kg-day	9.8E-03
				Vanadium	4E+01	mg/kg	9.1E-07	mg/kg-day	N/A	N/A	N/A	3.2E-05	mg/kg-day	1.0E-03	mg/kg-day	3.2E-02
				Zinc	2E+03	mg/kg	4.2E-05	mg/kg-day	N/A	N/A	N/A	1.5E-03	mg/kg-day	3.0E-01	mg/kg-day	4.9E-03
				Chromium VI	9E-01	mg/kg	1.9E-08	mg/kg-day	N/A	N/A	N/A	6.7E-07	mg/kg-day	3.0E-03	mg/kg-day	2.2E-04
			Exp. Route Total								4E-06					4E-01
			Dermal													
				Arsenic	2E+02	mg/kg	1.5E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.3E-06	5.4E-05	mg/kg-day	3.0E-04	mg/kg-day	1.8E-01
				Cadmium	1E+01	mg/kg	2.4E-08	mg/kg-day	N/A	N/A	N/A	8.5E-07	mg/kg-day	2.5E-05	mg/kg-day	3.4E-02
			Exp. Route Total								2E-06					2E-01
		Exposure Point Total									6E-06					6E-01

TABLE 3-7.3.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station TT-30	Ingestion													
				Arsenic	1E+03	mg/kg	7.3E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	5.6E-06	2.6E-04	mg/kg-day	5.9E-04	mg/kg-day	4.3E-01
				Barium	3E+01	mg/kg	2.2E-07	mg/kg-day	N/A	N/A	N/A	7.8E-06	mg/kg-day	7.0E-02	mg/kg-day	1.1E-04
				Cadmium	7E+00	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
				Chromium III	5E+03	mg/kg	3.6E-05	mg/kg-day	N/A	N/A	N/A	1.3E-03	mg/kg-day	1.5E+00	mg/kg-day	8.4E-04
				Copper	4E+03	mg/kg	2.6E-05	mg/kg-day	N/A	N/A	N/A	8.9E-04	mg/kg-day	3.0E-02	mg/kg-day	3.0E-02
				Lead												
				Manganese	2E+02	mg/kg	1.4E-06	mg/kg-day	N/A	N/A	N/A	4.9E-05	mg/kg-day	7.0E-02	mg/kg-day	7.0E-04
				Mercury	9E+01	mg/kg	6.1E-07	mg/kg-day	N/A	N/A	N/A	2.1E-05	mg/kg-day	1.0E-04	mg/kg-day	2.1E-01
				Nickel	8E+00	mg/kg	5.4E-08	mg/kg-day	N/A	N/A	N/A	1.9E-06	mg/kg-day	2.0E-02	mg/kg-day	9.5E-05
				Thallium	2E+00	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	1.4E-07	mg/kg-day	N/A	N/A	N/A	5.0E-06	mg/kg-day	1.0E-03	mg/kg-day	5.0E-03
				Zinc	1E+03	mg/kg	7.9E-06	mg/kg-day	N/A	N/A	N/A	2.8E-04	mg/kg-day	3.0E-01	mg/kg-day	9.3E-04
				Chromium VI	7E+00	mg/kg	4.7E-08	mg/kg-day	N/A	N/A	N/A	1.6E-06	mg/kg-day	3.0E-03	mg/kg-day	5.5E-04
			Exp. Route Total								6E-06					7E-01
			Dermal													
				Arsenic	1E+03	mg/kg	2.5E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.7E-06	8.6E-05	mg/kg-day	3.0E-04	mg/kg-day	2.9E-01
				Cadmium	7E+00	mg/kg	5.4E-09	mg/kg-day	N/A	N/A	N/A	1.9E-07	mg/kg-day	2.5E-05	mg/kg-day	7.6E-03
			Exp. Route Total								4E-06					3E-01
		Exposure Point Total									9E-06					1E+00

TABLE 3-7.3.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station CB-01	Ingestion													
				Antimony	2E+00	mg/kg	4.2E-08	mg/kg-day	N/A	N/A	N/A	1.5E-06	mg/kg-day	4.0E-04	mg/kg-day	3.6E-03
				Arsenic	6E+01	mg/kg	1.2E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	9.1E-07	4.1E-05	mg/kg-day	5.9E-04	mg/kg-day	7.0E-02
				Barium	6E+01	mg/kg	1.2E-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
				Cadmium	9E+00	mg/kg	1.9E-07	mg/kg-day	N/A	N/A	N/A	6.6E-06	mg/kg-day	1.0E-03	mg/kg-day	6.6E-03
				Chromium III	3E+02	mg/kg	6.8E-06	mg/kg-day	N/A	N/A	N/A	2.4E-04	mg/kg-day	1.5E+00	mg/kg-day	1.6E-04
				Copper	7E+02	mg/kg	1.5E-05	mg/kg-day	N/A	N/A	N/A	5.3E-04	mg/kg-day	3.0E-02	mg/kg-day	1.8E-02
				Lead												
				Manganese	7E+02	mg/kg	1.4E-05	mg/kg-day	N/A	N/A	N/A	4.9E-04	mg/kg-day	7.0E-02	mg/kg-day	7.0E-03
				Mercury	3E+00	mg/kg	6.0E-08	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	1.0E-04	mg/kg-day	2.1E-02
				Nickel	2E+01	mg/kg	4.2E-07	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	2.0E-02	mg/kg-day	7.3E-04
				Thallium	3E+00	mg/kg	5.2E-08	mg/kg-day	N/A	N/A	N/A	1.8E-06	mg/kg-day	8.0E-05	mg/kg-day	2.3E-02
				Vanadium	8E+01	mg/kg	1.6E-06	mg/kg-day	N/A	N/A	N/A	5.7E-05	mg/kg-day	1.0E-03	mg/kg-day	5.7E-02
				Zinc	6E+02	mg/kg	1.3E-05	mg/kg-day	N/A	N/A	N/A	4.5E-04	mg/kg-day	3.0E-01	mg/kg-day	1.5E-03
			Exp. Route Total								9E-07					2E-01
			Dermal													
				Arsenic	6E+01	mg/kg	4.0E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.9E-07	1.4E-05	mg/kg-day	3.0E-04	mg/kg-day	4.6E-02
				Cadmium	9E+00	mg/kg	2.1E-08	mg/kg-day	N/A	N/A	N/A	7.4E-07	mg/kg-day	2.5E-05	mg/kg-day	3.0E-02
			Exp. Route Total								6E-07					8E-02
		Exposure Point Total									2E-06					3E-01
		Station CB-02	Ingestion													
				Antimony	2E+00	mg/kg	3.7E-08	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	4.0E-04	mg/kg-day	3.2E-03
				Arsenic	4E+01	mg/kg	8.4E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	6.5E-07	3.0E-05	mg/kg-day	5.9E-04	mg/kg-day	5.0E-02
				Barium	2E+02	mg/kg	3.5E-06	mg/kg-day	N/A	N/A	N/A	1.2E-04	mg/kg-day	7.0E-02	mg/kg-day	1.7E-03
				Cadmium	4E+00	mg/kg	7.8E-08	mg/kg-day	N/A	N/A	N/A	2.7E-06	mg/kg-day	1.0E-03	mg/kg-day	2.7E-03
				Chromium III	1E+02	mg/kg	2.9E-06	mg/kg-day	N/A	N/A	N/A	1.0E-04	mg/kg-day	1.5E+00	mg/kg-day	6.8E-05
				Copper	1E+02	mg/kg	2.0E-06	mg/kg-day	N/A	N/A	N/A	7.0E-05	mg/kg-day	3.0E-02	mg/kg-day	2.3E-03
				Lead												
				Manganese	7E+01	mg/kg	1.5E-06	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	3E-01	mg/kg	6.7E-09	mg/kg-day	N/A	N/A	N/A	2.3E-07	mg/kg-day	1.0E-04	mg/kg-day	2.3E-03
				Nickel	1E+01	mg/kg	2.0E-07	mg/kg-day	N/A	N/A	N/A	7.1E-06	mg/kg-day	2.0E-02	mg/kg-day	3.6E-04
				Vanadium	3E+01	mg/kg	6.5E-07	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	1.0E-03	mg/kg-day	2.3E-02
				Zinc	3E+02	mg/kg	6.4E-06	mg/kg-day	N/A	N/A	N/A	2.2E-04	mg/kg-day	3.0E-01	mg/kg-day	7.5E-04
			Exp. Route Total								6E-07					9E-02
			Dermal													
				Arsenic	4E+01	mg/kg	2.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.3E-07	9.9E-06	mg/kg-day	3.0E-04	mg/kg-day	3.3E-02
				Cadmium	4E+00	mg/kg	8.7E-09	mg/kg-day	N/A	N/A	N/A	3.1E-07	mg/kg-day	2.5E-05	mg/kg-day	1.2E-02
			Exp. Route Total								4E-07					5E-02
		Exposure Point Total									1E-06					1E-01

TABLE 3-7.3.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station CB-03	Ingestion													
				Antimony	2E+00	mg/kg	3.1E-08	mg/kg-day	N/A	N/A	N/A	1.1E-06	mg/kg-day	4.0E-04	mg/kg-day	2.7E-03
				Arsenic	6E+02	mg/kg	1.2E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	9.3E-06	4.2E-04	mg/kg-day	5.9E-04	mg/kg-day	7.2E-01
				Barium	7E+01	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
				Cadmium	1E+01	mg/kg	2.7E-07	mg/kg-day	N/A	N/A	N/A	9.3E-06	mg/kg-day	1.0E-03	mg/kg-day	9.3E-03
				Chromium III	5E+02	mg/kg	9.3E-06	mg/kg-day	N/A	N/A	N/A	3.3E-04	mg/kg-day	1.5E+00	mg/kg-day	2.2E-04
				Copper	4E+02	mg/kg	7.7E-06	mg/kg-day	N/A	N/A	N/A	2.7E-04	mg/kg-day	3.0E-02	mg/kg-day	8.9E-03
				Lead												
				Manganese	5E+02	mg/kg	9.4E-06	mg/kg-day	N/A	N/A	N/A	3.3E-04	mg/kg-day	7.0E-02	mg/kg-day	4.7E-03
				Mercury	2E+00	mg/kg	5.0E-08	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	1.0E-04	mg/kg-day	1.7E-02
				Nickel	4E+01	mg/kg	7.5E-07	mg/kg-day	N/A	N/A	N/A	2.6E-05	mg/kg-day	2.0E-02	mg/kg-day	1.3E-03
				Thallium	1E+00	mg/kg	2.0E-08	mg/kg-day	N/A	N/A	N/A	6.9E-07	mg/kg-day	8.0E-05	mg/kg-day	8.6E-03
				Vanadium	6E+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
				Zinc	2E+03	mg/kg	4.3E-05	mg/kg-day	N/A	N/A	N/A	1.5E-03	mg/kg-day	3.0E-01	mg/kg-day	5.0E-03
			Exp. Route Total								9E-06					8E-01
			Dermal													
				Arsenic	6E+02	mg/kg	4.1E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.1E-06	1.4E-04	mg/kg-day	3.0E-04	mg/kg-day	4.7E-01
				Cadmium	1E+01	mg/kg	3.0E-08	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	2.5E-05	mg/kg-day	4.2E-02
			Exp. Route Total								6E-06					5E-01
		Exposure Point Total									2E-05					1E+00
		Station CB-04	Ingestion													
				Antimony	5E+00	mg/kg	9.7E-08	mg/kg-day	N/A	N/A	N/A	3.4E-06	mg/kg-day	4.0E-04	mg/kg-day	8.5E-03
				Arsenic	2E+02	mg/kg	3.7E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.8E-06	1.3E-04	mg/kg-day	5.9E-04	mg/kg-day	2.2E-01
				Barium	8E+01	mg/kg	1.6E-06	mg/kg-day	N/A	N/A	N/A	5.5E-05	mg/kg-day	7.0E-02	mg/kg-day	7.8E-04
				Cadmium	6E+00	mg/kg	1.2E-07	mg/kg-day	N/A	N/A	N/A	4.1E-06	mg/kg-day	1.0E-03	mg/kg-day	4.1E-03
				Chromium III	3E+02	mg/kg	5.5E-06	mg/kg-day	N/A	N/A	N/A	1.9E-04	mg/kg-day	1.5E+00	mg/kg-day	1.3E-04
				Copper	2E+02	mg/kg	5.0E-06	mg/kg-day	N/A	N/A	N/A	1.7E-04	mg/kg-day	3.0E-02	mg/kg-day	5.8E-03
				Lead												
				Manganese	1E+03	mg/kg	2.8E-05	mg/kg-day	N/A	N/A	N/A	9.8E-04	mg/kg-day	7.0E-02	mg/kg-day	1.4E-02
				Mercury	1E+00	mg/kg	2.5E-08	mg/kg-day	N/A	N/A	N/A	8.6E-07	mg/kg-day	1.0E-04	mg/kg-day	8.6E-03
				Nickel	8E+01	mg/kg	1.6E-06	mg/kg-day	N/A	N/A	N/A	5.5E-05	mg/kg-day	2.0E-02	mg/kg-day	2.7E-03
				Thallium	1E+00	mg/kg	2.3E-08	mg/kg-day	N/A	N/A	N/A	8.0E-07	mg/kg-day	8.0E-05	mg/kg-day	1.0E-02
				Vanadium	7E+01	mg/kg	1.4E-06	mg/kg-day	N/A	N/A	N/A	4.9E-05	mg/kg-day	1.0E-03	mg/kg-day	4.9E-02
				Zinc	3E+03	mg/kg	6.2E-05	mg/kg-day	N/A	N/A	N/A	2.2E-03	mg/kg-day	3.0E-01	mg/kg-day	7.3E-03
			Exp. Route Total								3E-06					3E-01
			Dermal													
				Arsenic	2E+02	mg/kg	1.2E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.9E-06	4.3E-05	mg/kg-day	3.0E-04	mg/kg-day	1.4E-01
				Cadmium	6E+00	mg/kg	1.3E-08	mg/kg-day	N/A	N/A	N/A	4.6E-07	mg/kg-day	2.5E-05	mg/kg-day	1.8E-02
			Exp. Route Total								2E-06					2E-01
		Exposure Point Total									5E-06					5E-01

TABLE 3-7.3.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station CB-06	Ingestion													
				Antimony	5E+00	mg/kg	9.8E-08	mg/kg-day	N/A	N/A	N/A	3.4E-06	mg/kg-day	4.0E-04	mg/kg-day	8.4E-03
				Arsenic	1E+02	mg/kg	2.8E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.2E-06	1.0E-04	mg/kg-day	5.9E-04	mg/kg-day	1.7E-01
				Barium	5E+01	mg/kg	1.0E-06	mg/kg-day	N/A	N/A	N/A	3.6E-05	mg/kg-day	7.0E-02	mg/kg-day	5.2E-04
				Cadmium	2E+01	mg/kg	3.5E-07	mg/kg-day	N/A	N/A	N/A	1.2E-05	mg/kg-day	1.0E-03	mg/kg-day	1.2E-02
				Chromium III	5E+02	mg/kg	1.0E-05	mg/kg-day	N/A	N/A	N/A	3.5E-04	mg/kg-day	1.5E+00	mg/kg-day	2.4E-04
				Copper	2E+02	mg/kg	4.8E-06	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	9E+01	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	9.5E-04
				Mercury	3E-01	mg/kg	6.9E-09	mg/kg-day	N/A	N/A	N/A	2.4E-07	mg/kg-day	1.0E-04	mg/kg-day	2.4E-03
				Nickel	3E+01	mg/kg	5.6E-07	mg/kg-day	N/A	N/A	N/A	2.0E-05	mg/kg-day	2.0E-02	mg/kg-day	9.8E-04
				Thallium	4E+00	mg/kg	8.4E-08	mg/kg-day	N/A	N/A	N/A	2.9E-06	mg/kg-day	8.0E-05	mg/kg-day	3.7E-02
				Vanadium	7E+01	mg/kg	1.5E-06	mg/kg-day	N/A	N/A	N/A	5.1E-05	mg/kg-day	1.0E-03	mg/kg-day	5.1E-02
				Zinc	2E+03	mg/kg	4.2E-05	mg/kg-day	N/A	N/A	N/A	1.5E-03	mg/kg-day	3.0E-01	mg/kg-day	4.9E-03
				Chromium VI	6E-01	mg/kg	1.3E-08	mg/kg-day	N/A	N/A	N/A	4.6E-07	mg/kg-day	3.0E-03	mg/kg-day	1.5E-04
			Exp. Route Total								2E-06					3E-01
			Dermal													
				Arsenic	1E+02	mg/kg	9.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.4E-06	3.3E-05	mg/kg-day	3.0E-04	mg/kg-day	1.1E-01
				Cadmium	2E+01	mg/kg	3.9E-08	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	2.5E-05	mg/kg-day	5.5E-02
			Exp. Route Total								1E-06					2E-01
		Exposure Point Total									4E-06					5E-01
		Station CB-07	Ingestion													
				Arsenic	2E+02	mg/kg	1.4E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.1E-06	5.0E-05	mg/kg-day	5.9E-04	mg/kg-day	8.5E-02
				Barium	6E+01	mg/kg	3.8E-07	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	7.0E-02	mg/kg-day	1.9E-04
				Cadmium	5E+00	mg/kg	3.3E-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
				Chromium III	7E+02	mg/kg	4.8E-06	mg/kg-day	N/A	N/A	N/A	1.7E-04	mg/kg-day	1.5E+00	mg/kg-day	1.1E-04
				Copper	2E+02	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	3.9E-05	mg/kg-day	3.0E-02	mg/kg-day	1.3E-03
				Lead												
				Manganese	3E+02	mg/kg	2.3E-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
				Mercury	1E+00	mg/kg	8.8E-09	mg/kg-day	N/A	N/A	N/A	3.1E-07	mg/kg-day	1.0E-04	mg/kg-day	3.1E-03
				Nickel	2E+01	mg/kg	1.5E-07	mg/kg-day	N/A	N/A	N/A	5.2E-06	mg/kg-day	2.0E-02	mg/kg-day	2.6E-04
				Vanadium	9E+01	mg/kg	6.2E-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
				Zinc	6E+02	mg/kg	4.2E-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					1E-01
			Dermal													
				Arsenic	2E+02	mg/kg	4.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	7.2E-07	1.7E-05	mg/kg-day	3.0E-04	mg/kg-day	5.6E-02
				Cadmium	5E+00	mg/kg	3.7E-09	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	2.5E-05	mg/kg-day	5.2E-03
			Exp. Route Total								7E-07					6E-02
		Exposure Point Total									2E-06					2E-01

TABLE 3-7.3.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station 16/TT-33	Ingestion													
				Benzo(a)anthracene	1E-01	mg/kg	7.5E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.4E-10	2.6E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E-01	mg/kg	9.5E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	6.9E-09	3.3E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E-01	mg/kg	1.6E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.2E-09	5.6E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E-01	mg/kg	6.7E-10	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	4.9E-11	2.4E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	6E-02	mg/kg	4.1E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.0E-10	1.4E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	1E-01	mg/kg	8.8E-10	mg/kg-day	N/A	N/A	N/A	3.1E-08	mg/kg-day	2.0E-02	mg/kg-day	1.5E-06
				Antimony	6E+00	mg/kg	4.0E-08	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	4.0E-04	mg/kg-day	3.5E-03
				Arsenic	2E+02	mg/kg	1.6E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.2E-06	5.6E-05	mg/kg-day	5.9E-04	mg/kg-day	9.5E-02
				Barium	6E+01	mg/kg	4.2E-07	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	7.0E-02	mg/kg-day	2.1E-04
				Cadmium	6E+00	mg/kg	3.8E-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
				Chromium III	6E+02	mg/kg	3.9E-06	mg/kg-day	N/A	N/A	N/A	1.4E-04	mg/kg-day	1.5E+00	mg/kg-day	9.1E-05
				Copper	4E+02	mg/kg	2.7E-06	mg/kg-day	N/A	N/A	N/A	9.5E-05	mg/kg-day	3.0E-02	mg/kg-day	3.2E-03
				Lead												
				Manganese	4E+02	mg/kg	2.6E-06	mg/kg-day	N/A	N/A	N/A	9.2E-05	mg/kg-day	7.0E-02	mg/kg-day	1.3E-03
				Mercury	3E+00	mg/kg	2.3E-08	mg/kg-day	N/A	N/A	N/A	8.1E-07	mg/kg-day	1.0E-04	mg/kg-day	8.1E-03
				Nickel	2E+01	mg/kg	1.0E-07	mg/kg-day	N/A	N/A	N/A	3.7E-06	mg/kg-day	2.0E-02	mg/kg-day	1.8E-04
				Vanadium	3E+01	mg/kg	2.1E-07	mg/kg-day	N/A	N/A	N/A	7.3E-06	mg/kg-day	1.0E-03	mg/kg-day	7.3E-03
				Zinc	9E+02	mg/kg	6.3E-06	mg/kg-day	N/A	N/A	N/A	2.2E-04	mg/kg-day	3.0E-01	mg/kg-day	7.4E-04
				Chromium VI	7E-01	mg/kg	5.1E-09	mg/kg-day	N/A	N/A	N/A	1.8E-07	mg/kg-day	3.0E-03	mg/kg-day	5.9E-05
			Exp. Route Total								1E-06					1E-01
			Dermal													
				Benzo(a)anthracene	1E-01	mg/kg	1.1E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	7.9E-10	3.8E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E-01	mg/kg	1.4E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.0E-08	4.8E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E-01	mg/kg	2.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.7E-09	8.1E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E-01	mg/kg	9.8E-10	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	7.1E-11	3.4E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	6E-02	mg/kg	5.9E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.3E-10	2.1E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	1E-01	mg/kg	1.3E-09	mg/kg-day	N/A	N/A	N/A	4.5E-08	mg/kg-day	2.0E-02	mg/kg-day	2.2E-06
				Arsenic	2E+02	mg/kg	5.4E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	8.1E-07	1.9E-05	mg/kg-day	3.0E-04	mg/kg-day	6.3E-02
				Cadmium	6E+00	mg/kg	4.3E-09	mg/kg-day	N/A	N/A	N/A	1.5E-07	mg/kg-day	2.5E-05	mg/kg-day	6.0E-03
			Exp. Route Total								8E-07					7E-02
		Exposure Point Total									2E-06					2E-01

TABLE 3-7.3.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station 09	Ingestion													
				Benzo(a)anthracene	5E-01	mg/kg	3.2E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.4E-09	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	5E-01	mg/kg	3.4E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.5E-08	1.2E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	9.0E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.5E-09	3.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	8.2E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	6.0E-10	2.9E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	8E-02	mg/kg	5.4E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.0E-09	1.9E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	mg/kg	1.7E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.2E-09	6.0E-08	mg/kg-day	N/A	N/A	N/A
				Antimony	1E+00	mg/kg	6.9E-09	mg/kg-day	N/A	N/A	N/A	2.4E-07	mg/kg-day	4.0E-04	mg/kg-day	6.0E-04
				Arsenic	3E+01	mg/kg	2.4E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.8E-07	8.3E-06	mg/kg-day	5.9E-04	mg/kg-day	1.4E-02
				Barium	3E+01	mg/kg	2.3E-07	mg/kg-day	N/A	N/A	N/A	7.9E-06	mg/kg-day	7.0E-02	mg/kg-day	1.1E-04
				Cadmium	7E-01	mg/kg	4.6E-09	mg/kg-day	N/A	N/A	N/A	1.6E-07	mg/kg-day	1.0E-03	mg/kg-day	1.6E-04
				Chromium III	6E+01	mg/kg	4.0E-07	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	1.5E+00	mg/kg-day	9.3E-06
				Copper	6E+01	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	4E+02	mg/kg	2.5E-06	mg/kg-day	N/A	N/A	N/A	8.7E-05	mg/kg-day	7.0E-02	mg/kg-day	1.2E-03
				Mercury	4E-01	mg/kg	2.6E-09	mg/kg-day	N/A	N/A	N/A	9.1E-08	mg/kg-day	1.0E-04	mg/kg-day	9.1E-04
				Nickel	1E+01	mg/kg	6.6E-08	mg/kg-day	N/A	N/A	N/A	2.3E-06	mg/kg-day	2.0E-02	mg/kg-day	1.1E-04
				Thallium	1E+00	mg/kg	8.8E-09	mg/kg-day	N/A	N/A	N/A	3.1E-07	mg/kg-day	8.0E-05	mg/kg-day	3.8E-03
				Vanadium	1E+01	mg/kg	9.3E-08	mg/kg-day	N/A	N/A	N/A	3.2E-06	mg/kg-day	1.0E-03	mg/kg-day	3.2E-03
				Zinc	2E+02	mg/kg	1.6E-06	mg/kg-day	N/A	N/A	N/A	5.6E-05	mg/kg-day	3.0E-01	mg/kg-day	1.9E-04
			Exp. Route Total								2E-07					2E-02
			Dermal													
				Benzo(a)anthracene	5E-01	mg/kg	4.7E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.4E-09	1.6E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	5E-01	mg/kg	5.0E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.6E-08	1.7E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	1.3E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.5E-09	4.6E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	1.2E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	8.7E-10	4.2E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	8E-02	mg/kg	7.9E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	5.8E-09	2.8E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	mg/kg	2.5E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.8E-09	8.7E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	3E-01	mg/kg	3.0E-09	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	2.0E-02	mg/kg-day	5.3E-06
				Arsenic	3E+01	mg/kg	7.9E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.2E-07	2.8E-06	mg/kg-day	3.0E-04	mg/kg-day	9.3E-03
				Cadmium	7E-01	mg/kg	5.2E-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
			Exp. Route Total								2E-07					1E-02
		Exposure Point Total									4E-07					3E-02

TABLE 3-7.3.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station AM	Ingestion													
				Antimony	2E+00	mg/kg	1.4E-08	mg/kg-day	N/A	N/A	N/A	4.7E-07	mg/kg-day	4.0E-04	mg/kg-day	1.2E-03
				Arsenic	1E+02	mg/kg	8.2E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	6.3E-07	2.9E-05	mg/kg-day	5.9E-04	mg/kg-day	4.9E-02
				Barium	6E+01	mg/kg	4.0E-07	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	7.0E-02	mg/kg-day	2.0E-04
				Cadmium	4E+00	mg/kg	2.6E-08	mg/kg-day	N/A	N/A	N/A	9.3E-07	mg/kg-day	1.0E-03	mg/kg-day	9.3E-04
				Chromium III	3E+02	mg/kg	2.2E-06	mg/kg-day	N/A	N/A	N/A	7.6E-05	mg/kg-day	1.5E+00	mg/kg-day	5.1E-05
				Copper	2E+02	mg/kg	1.3E-06	mg/kg-day	N/A	N/A	N/A	4.7E-05	mg/kg-day	3.0E-02	mg/kg-day	1.6E-03
				Lead												
				Manganese	1E+03	mg/kg	7.7E-06	mg/kg-day	N/A	N/A	N/A	2.7E-04	mg/kg-day	7.0E-02	mg/kg-day	3.9E-03
				Mercury	2E+00	mg/kg	1.3E-08	mg/kg-day	N/A	N/A	N/A	4.5E-07	mg/kg-day	1.0E-04	mg/kg-day	4.5E-03
				Nickel	2E+01	mg/kg	1.2E-07	mg/kg-day	N/A	N/A	N/A	4.3E-06	mg/kg-day	2.0E-02	mg/kg-day	2.1E-04
				Thallium	4E-01	mg/kg	3.0E-09	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	8.0E-05	mg/kg-day	1.3E-03
				Vanadium	3E+01	mg/kg	1.8E-07	mg/kg-day	N/A	N/A	N/A	6.4E-06	mg/kg-day	1.0E-03	mg/kg-day	6.4E-03
				Zinc	9E+02	mg/kg	6.4E-06	mg/kg-day	N/A	N/A	N/A	2.2E-04	mg/kg-day	3.0E-01	mg/kg-day	7.4E-04
			Exp. Route Total								6E-07					7E-02
			Dermal													
				Arsenic	1E+02	mg/kg	2.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.1E-07	9.7E-06	mg/kg-day	3.0E-04	mg/kg-day	3.2E-02
				Cadmium	4E+00	mg/kg	3.0E-09	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	2.5E-05	mg/kg-day	4.1E-03
			Exp. Route Total								4E-07					4E-02
		Exposure Point Total									1E-06					1E-01
		Station KF	Ingestion													
				Arsenic	5E+01	mg/kg	3.5E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.7E-07	1.2E-05	mg/kg-day	5.9E-04	mg/kg-day	2.1E-02
				Barium	4E+01	mg/kg	2.8E-07	mg/kg-day	N/A	N/A	N/A	9.7E-06	mg/kg-day	7.0E-02	mg/kg-day	1.4E-04
				Cadmium	1E+00	mg/kg	7.0E-09	mg/kg-day	N/A	N/A	N/A	2.5E-07	mg/kg-day	1.0E-03	mg/kg-day	2.5E-04
				Chromium III	9E+01	mg/kg	6.0E-07	mg/kg-day	N/A	N/A	N/A	2.1E-05	mg/kg-day	1.5E+00	mg/kg-day	1.4E-05
				Copper	1E+02	mg/kg	7.6E-07	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	4E+02	mg/kg	2.5E-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
				Mercury	9E-01	mg/kg	6.0E-09	mg/kg-day	N/A	N/A	N/A	2.1E-07	mg/kg-day	1.0E-04	mg/kg-day	2.1E-03
				Nickel	9E+00	mg/kg	6.1E-08	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	2.0E-02	mg/kg-day	1.1E-04
				Vanadium	2E+01	mg/kg	1.6E-07	mg/kg-day	N/A	N/A	N/A	5.5E-06	mg/kg-day	1.0E-03	mg/kg-day	5.5E-03
				Zinc	3E+02	mg/kg	2.4E-06	mg/kg-day	N/A	N/A	N/A	8.3E-05	mg/kg-day	3.0E-01	mg/kg-day	2.8E-04
			Exp. Route Total								3E-07					3E-02
			Dermal													
				Arsenic	5E+01	mg/kg	1.2E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.8E-07	4.1E-06	mg/kg-day	3.0E-04	mg/kg-day	1.4E-02
				Cadmium	1E+00	mg/kg	7.9E-10	mg/kg-day	N/A	N/A	N/A	2.8E-08	mg/kg-day	2.5E-05	mg/kg-day	1.1E-03
			Exp. Route Total								2E-07					1E-02
		Exposure Point Total									4E-07					5E-02

TABLE 3-7.3.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station 08	Ingestion													
				Benzo(a)anthracene	5E-01	mg/kg	3.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.4E-09	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	6E-01	mg/kg	4.3E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.1E-08	1.5E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	8.7E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.4E-09	3.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	9.2E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	6.7E-10	3.2E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	9E-02	mg/kg	6.3E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.6E-09	2.2E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	4E-01	mg/kg	2.7E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.0E-09	9.5E-08	mg/kg-day	N/A	N/A	N/A
				Antimony	1E+00	mg/kg	7.0E-09	mg/kg-day	N/A	N/A	N/A	2.4E-07	mg/kg-day	4.0E-04	mg/kg-day	6.1E-04
				Arsenic	2E+01	mg/kg	1.3E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	9.8E-08	4.4E-06	mg/kg-day	5.9E-04	mg/kg-day	7.5E-03
				Barium	2E+01	mg/kg	1.3E-07	mg/kg-day	N/A	N/A	N/A	4.5E-06	mg/kg-day	7.0E-02	mg/kg-day	6.4E-05
				Chromium III	5E+01	mg/kg	3.7E-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
				Copper	7E+01	mg/kg	5.0E-07	mg/kg-day	N/A	N/A	N/A	1.7E-05	mg/kg-day	3.0E-02	mg/kg-day	5.8E-04
				Lead												
				Manganese	2E+02	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	3.8E-05	mg/kg-day	7.0E-02	mg/kg-day	5.5E-04
				Mercury	5E-01	mg/kg	3.1E-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
				Nickel	1E+01	mg/kg	8.3E-08	mg/kg-day	N/A	N/A	N/A	2.9E-06	mg/kg-day	2.0E-02	mg/kg-day	1.4E-04
				Thallium	1E+00	mg/kg	9.7E-09	mg/kg-day	N/A	N/A	N/A	3.4E-07	mg/kg-day	8.0E-05	mg/kg-day	4.3E-03
				Vanadium	1E+01	mg/kg	1.0E-07	mg/kg-day	N/A	N/A	N/A	3.5E-06	mg/kg-day	1.0E-03	mg/kg-day	3.5E-03
				Zinc	4E+02	mg/kg	2.4E-06	mg/kg-day	N/A	N/A	N/A	8.3E-05	mg/kg-day	3.0E-01	mg/kg-day	2.8E-04
			Exp. Route Total								1E-07					2E-02
			Dermal													
				Benzo(a)anthracene	5E-01	mg/kg	4.8E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.5E-09	1.7E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	6E-01	mg/kg	6.2E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.5E-08	2.2E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	1.3E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.3E-09	4.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	1.3E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	9.8E-10	4.7E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	9E-02	mg/kg	9.2E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	6.7E-09	3.2E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	4E-01	mg/kg	4.0E-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
				Phenanthrene	5E-01	mg/kg	4.7E-09	mg/kg-day	N/A	N/A	N/A	1.6E-07	mg/kg-day	2.0E-02	mg/kg-day	8.2E-06
				Arsenic	2E+01	mg/kg	4.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.4E-08	1.5E-06	mg/kg-day	3.0E-04	mg/kg-day	5.0E-03
			Exp. Route Total								1E-07					5E-03
		Exposure Point Total									3E-07					2E-02

TABLE 3-7.3.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station 07/DP	Ingestion													
				Trichloroethene	2E-02	mg/kg	1.5E-10	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	6.0E-11	5.3E-09	mg/kg-day	3.0E-04	mg/kg-day	1.8E-05
				Benzo(a)anthracene	6E+00	mg/kg	3.8E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.8E-08	1.3E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	6E+00	mg/kg	3.8E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.7E-07	1.3E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+01	mg/kg	6.5E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.7E-08	2.3E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	9E+00	mg/kg	6.2E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	4.5E-09	2.2E-06	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1E+00	mg/kg	7.3E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	5.4E-08	2.6E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	4E+00	mg/kg	2.6E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.9E-08	9.2E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	7E+00	mg/kg	4.6E-08	mg/kg-day	N/A	N/A	N/A	1.6E-06	mg/kg-day	2.0E-02	mg/kg-day	8.1E-05
				Aroclor 1260	7E-02	mg/kg	4.5E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	4.5E-10	1.6E-08	mg/kg-day	2.0E-05	mg/kg-day	7.9E-04
				Antimony	2E+00	mg/kg	1.6E-08	mg/kg-day	N/A	N/A	N/A	5.5E-07	mg/kg-day	4.0E-04	mg/kg-day	1.4E-03
				Arsenic	8E+01	mg/kg	5.4E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	4.2E-07	1.9E-05	mg/kg-day	5.9E-04	mg/kg-day	3.2E-02
				Barium	8E+01	mg/kg	5.7E-07	mg/kg-day	N/A	N/A	N/A	2.0E-05	mg/kg-day	7.0E-02	mg/kg-day	2.9E-04
				Cadmium	5E+00	mg/kg	3.5E-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
				Chromium III	2E+02	mg/kg	1.7E-06	mg/kg-day	N/A	N/A	N/A	5.9E-05	mg/kg-day	1.5E+00	mg/kg-day	3.9E-05
				Copper	2E+02	mg/kg	1.6E-06	mg/kg-day	N/A	N/A	N/A	5.6E-05	mg/kg-day	3.0E-02	mg/kg-day	1.9E-03
				Lead												
				Manganese	4E+02	mg/kg	2.8E-06	mg/kg-day	N/A	N/A	N/A	9.9E-05	mg/kg-day	7.0E-02	mg/kg-day	1.4E-03
				Mercury	3E+00	mg/kg	1.9E-08	mg/kg-day	N/A	N/A	N/A	6.6E-07	mg/kg-day	1.0E-04	mg/kg-day	6.6E-03
				Nickel	3E+01	mg/kg	1.9E-07	mg/kg-day	N/A	N/A	N/A	6.5E-06	mg/kg-day	2.0E-02	mg/kg-day	3.3E-04
				Thallium	2E+00	mg/kg	1.5E-08	mg/kg-day	N/A	N/A	N/A	5.2E-07	mg/kg-day	8.0E-05	mg/kg-day	6.6E-03
				Vanadium	5E+01	mg/kg	3.5E-07	mg/kg-day	N/A	N/A	N/A	1.2E-05	mg/kg-day	1.0E-03	mg/kg-day	1.2E-02
				Zinc	1E+03	mg/kg	9.1E-06	mg/kg-day	N/A	N/A	N/A	3.2E-04	mg/kg-day	3.0E-01	mg/kg-day	1.1E-03
			Exp. Route Total								8E-07					7E-02
			Dermal													
				Benzo(a)anthracene	6E+00	mg/kg	5.5E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.0E-08	1.9E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	6E+00	mg/kg	5.5E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.0E-07	1.9E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+01	mg/kg	9.4E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.9E-08	3.3E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	9E+00	mg/kg	9.1E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	6.6E-09	3.2E-06	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1E+00	mg/kg	1.1E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	7.8E-08	3.7E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	4E+00	mg/kg	3.8E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.8E-08	1.3E-06	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	7E+00	mg/kg	6.7E-08	mg/kg-day	N/A	N/A	N/A	2.4E-06	mg/kg-day	2.0E-02	mg/kg-day	1.2E-04
				Aroclor 1260	7E-02	mg/kg	7.1E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	7.1E-10	2.5E-08	mg/kg-day	2.0E-05	mg/kg-day	1.2E-03
				Arsenic	8E+01	mg/kg	1.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.7E-07	6.4E-06	mg/kg-day	3.0E-04	mg/kg-day	2.1E-02
				Cadmium	5E+00	mg/kg	3.9E-09	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	2.5E-05	mg/kg-day	5.4E-03
			Exp. Route Total								9E-07					3E-02
		Exposure Point Total									2E-06					9E-02

TABLE 3-7.3.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station LP	Ingestion													
				Antimony	2E+00	mg/kg	1.3E-08	mg/kg-day	N/A	N/A	N/A	4.6E-07	mg/kg-day	4.0E-04	mg/kg-day	1.1E-03
				Arsenic	1E+02	mg/kg	1.0E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	7.8E-07	3.6E-05	mg/kg-day	5.9E-04	mg/kg-day	6.0E-02
				Barium	4E+01	mg/kg	2.8E-07	mg/kg-day	N/A	N/A	N/A	9.7E-06	mg/kg-day	7.0E-02	mg/kg-day	1.4E-04
				Cadmium	3E+00	mg/kg	2.0E-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
				Chromium III	9E+01	mg/kg	5.9E-07	mg/kg-day	N/A	N/A	N/A	2.1E-05	mg/kg-day	1.5E+00	mg/kg-day	1.4E-05
				Copper	5E+02	mg/kg	3.3E-06	mg/kg-day	N/A	N/A	N/A	1.1E-04	mg/kg-day	3.0E-02	mg/kg-day	3.8E-03
				Lead												
				Manganese	2E+02	mg/kg	1.4E-06	mg/kg-day	N/A	N/A	N/A	5.0E-05	mg/kg-day	7.0E-02	mg/kg-day	7.1E-04
				Mercury	8E-01	mg/kg	5.5E-09	mg/kg-day	N/A	N/A	N/A	1.9E-07	mg/kg-day	1.0E-04	mg/kg-day	1.9E-03
				Nickel	1E+01	mg/kg	9.8E-08	mg/kg-day	N/A	N/A	N/A	3.4E-06	mg/kg-day	2.0E-02	mg/kg-day	1.7E-04
				Thallium	2E+00	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	5.9E-03
				Vanadium	2E+01	mg/kg	1.5E-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	1.2E-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								8E-07					8E-02
			Dermal													
				Arsenic	1E+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	3E+00	mg/kg	2.2E-09	mg/kg-day	N/A	N/A	N/A	7.7E-06	mg/kg-day	2.5E-05	mg/kg-day	3.1E-03
			Exp. Route Total								5E-07					4E-02
		Exposure Point Total									1E-06					1E-01
		Station AS	Ingestion													
				Antimony	3E+00	mg/kg	1.7E-08	mg/kg-day	N/A	N/A	N/A	6.0E-07	mg/kg-day	4.0E-04	mg/kg-day	1.5E-03
				Arsenic	1E+02	mg/kg	7.9E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	6.1E-07	2.8E-05	mg/kg-day	5.9E-04	mg/kg-day	4.7E-02
				Barium	1E+02	mg/kg	6.9E-07	mg/kg-day	N/A	N/A	N/A	2.4E-05	mg/kg-day	7.0E-02	mg/kg-day	3.5E-04
				Cadmium	1E+01	mg/kg	8.1E-08	mg/kg-day	N/A	N/A	N/A	2.8E-06	mg/kg-day	1.0E-03	mg/kg-day	2.8E-03
				Chromium III	7E+02	mg/kg	5.1E-06	mg/kg-day	N/A	N/A	N/A	1.8E-04	mg/kg-day	1.5E+00	mg/kg-day	1.2E-04
				Copper	5E+02	mg/kg	3.5E-06	mg/kg-day	N/A	N/A	N/A	1.2E-04	mg/kg-day	3.0E-02	mg/kg-day	4.0E-03
				Lead												
				Manganese	4E+02	mg/kg	2.6E-06	mg/kg-day	N/A	N/A	N/A	9.1E-05	mg/kg-day	7.0E-02	mg/kg-day	1.3E-03
				Mercury	3E+00	mg/kg	2.1E-08	mg/kg-day	N/A	N/A	N/A	7.3E-07	mg/kg-day	1.0E-04	mg/kg-day	7.3E-03
				Nickel	4E+01	mg/kg	2.5E-07	mg/kg-day	N/A	N/A	N/A	8.8E-06	mg/kg-day	2.0E-02	mg/kg-day	4.4E-04
				Thallium	1E+00	mg/kg	7.3E-09	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	7E+01	mg/kg	4.5E-07	mg/kg-day	N/A	N/A	N/A	1.6E-05	mg/kg-day	1.0E-03	mg/kg-day	1.6E-02
				Zinc	2E+03	mg/kg	1.5E-05	mg/kg-day	N/A	N/A	N/A	5.2E-04	mg/kg-day	3.0E-01	mg/kg-day	1.7E-03
			Exp. Route Total								6E-07					9E-02
			Dermal													
				Arsenic	1E+02	mg/kg	2.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.0E-07	9.3E-06	mg/kg-day	3.0E-04	mg/kg-day	3.1E-02
				Cadmium	1E+01	mg/kg	9.1E-09	mg/kg-day	N/A	N/A	N/A	3.2E-07	mg/kg-day	2.5E-05	mg/kg-day	1.3E-02
			Exp. Route Total								4E-07					4E-02
		Exposure Point Total									1E-06					1E-01

TABLE 3-7.3.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station 05	Ingestion													
				Benzo(a)anthracene	4E-01	mg/kg	2.9E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.1E-09	1.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	3E-01	mg/kg	2.3E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.7E-08	8.2E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	4E-01	mg/kg	2.4E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.7E-09	8.4E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	3E-01	mg/kg	1.7E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.3E-10	6.0E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	2E-01	mg/kg	1.2E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	8.6E-10	4.1E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	7E-01	mg/kg	4.6E-09	mg/kg-day	N/A	N/A	N/A	1.6E-07	mg/kg-day	2.0E-02	mg/kg-day	8.1E-06
				Antimony	9E-01	mg/kg	6.4E-09	mg/kg-day	N/A	N/A	N/A	2.2E-07	mg/kg-day	4.0E-04	mg/kg-day	5.6E-04
				Arsenic	8E+00	mg/kg	5.6E-08	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	4.3E-08	2.0E-06	mg/kg-day	5.9E-04	mg/kg-day	3.3E-03
				Barium	3E+01	mg/kg	2.3E-07	mg/kg-day	N/A	N/A	N/A	8.2E-06	mg/kg-day	7.0E-02	mg/kg-day	1.2E-04
				Cadmium	2E-01	mg/kg	1.5E-09	mg/kg-day	N/A	N/A	N/A	5.2E-08	mg/kg-day	1.0E-03	mg/kg-day	5.2E-05
				Chromium III	3E+01	mg/kg	2.3E-07	mg/kg-day	N/A	N/A	N/A	8.0E-06	mg/kg-day	1.5E+00	mg/kg-day	5.3E-06
				Copper	3E+01	mg/kg	1.7E-07	mg/kg-day	N/A	N/A	N/A	6.0E-06	mg/kg-day	3.0E-02	mg/kg-day	2.0E-04
				Lead												
				Manganese	4E+02	mg/kg	2.9E-06	mg/kg-day	N/A	N/A	N/A	1.0E-04	mg/kg-day	7.0E-02	mg/kg-day	1.4E-03
				Mercury	9E-02	mg/kg	6.1E-10	mg/kg-day	N/A	N/A	N/A	2.1E-08	mg/kg-day	1.0E-04	mg/kg-day	2.1E-04
				Nickel	1E+01	mg/kg	6.9E-08	mg/kg-day	N/A	N/A	N/A	2.4E-06	mg/kg-day	2.0E-02	mg/kg-day	1.2E-04
				Thallium	6E-01	mg/kg	4.2E-09	mg/kg-day	N/A	N/A	N/A	1.5E-07	mg/kg-day	8.0E-05	mg/kg-day	1.8E-03
				Vanadium	2E+01	mg/kg	1.3E-07	mg/kg-day	N/A	N/A	N/A	4.5E-06	mg/kg-day	1.0E-03	mg/kg-day	4.5E-03
				Zinc	1E+02	mg/kg	8.2E-07	mg/kg-day	N/A	N/A	N/A	2.9E-05	mg/kg-day	3.0E-01	mg/kg-day	9.6E-05
			Exp. Route Total								7E-08					1E-02
			Dermal													
				Benzo(a)anthracene	4E-01	mg/kg	4.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.1E-09	1.5E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	3E-01	mg/kg	3.4E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.5E-08	1.2E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	4E-01	mg/kg	3.5E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.5E-09	1.2E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	3E-01	mg/kg	2.5E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.8E-10	8.8E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	2E-01	mg/kg	1.7E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.2E-09	6.0E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	7E-01	mg/kg	6.7E-09	mg/kg-day	N/A	N/A	N/A	2.4E-07	mg/kg-day	2.0E-02	mg/kg-day	1.2E-05
				Arsenic	8E+00	mg/kg	1.9E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.8E-08	6.6E-07	mg/kg-day	3.0E-04	mg/kg-day	2.2E-03
				Cadmium	2E-01	mg/kg	1.7E-10	mg/kg-day	N/A	N/A	N/A	5.8E-09	mg/kg-day	2.5E-05	mg/kg-day	2.3E-04
			Exp. Route Total								6E-08					2E-03
		Exposure Point Total									1E-07					1E-02

TABLE 3-7.3.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station 03	Ingestion													
				Benzo(a)anthracene	6E-01	mg/kg	3.8E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.8E-09	1.3E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	5E-01	mg/kg	3.2E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.3E-08	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	6E-01	mg/kg	4.1E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.0E-09	1.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	3E-01	mg/kg	2.3E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.7E-10	8.2E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1E-01	mg/kg	7.5E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	5.4E-09	2.6E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	mg/kg	2.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.7E-09	8.0E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	3.2E-09	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	2.0E-02	mg/kg-day	5.5E-06
				Aroclor 1260	5E-02	mg/kg	3.4E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	3.4E-10	1.2E-08	mg/kg-day	2.0E-05	mg/kg-day	5.9E-04
				Antimony	8E-01	mg/kg	5.4E-09	mg/kg-day	N/A	N/A	N/A	1.9E-07	mg/kg-day	4.0E-04	mg/kg-day	4.7E-04
				Arsenic	3E+01	mg/kg	2.2E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.7E-07	7.8E-06	mg/kg-day	5.9E-04	mg/kg-day	1.3E-02
				Barium	4E+01	mg/kg	2.4E-07	mg/kg-day	N/A	N/A	N/A	8.3E-06	mg/kg-day	7.0E-02	mg/kg-day	1.2E-04
				Cadmium	2E+00	mg/kg	1.2E-08	mg/kg-day	N/A	N/A	N/A	4.1E-07	mg/kg-day	1.0E-03	mg/kg-day	4.1E-04
				Chromium III	7E+01	mg/kg	5.0E-07	mg/kg-day	N/A	N/A	N/A	1.7E-05	mg/kg-day	1.5E+00	mg/kg-day	1.2E-05
				Copper	6E+01	mg/kg	4.2E-07	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	3.0E-02	mg/kg-day	4.9E-04
				Lead												
				Manganese	2E+02	mg/kg	1.5E-06	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	3E-01	mg/kg	1.8E-09	mg/kg-day	N/A	N/A	N/A	6.3E-08	mg/kg-day	1.0E-04	mg/kg-day	6.3E-04
				Nickel	1E+01	mg/kg	8.4E-08	mg/kg-day	N/A	N/A	N/A	2.9E-06	mg/kg-day	2.0E-02	mg/kg-day	1.5E-04
				Vanadium	2E+01	mg/kg	1.5E-07	mg/kg-day	N/A	N/A	N/A	5.3E-06	mg/kg-day	1.0E-03	mg/kg-day	5.3E-03
				Zinc	5E+02	mg/kg	3.6E-06	mg/kg-day	N/A	N/A	N/A	1.2E-04	mg/kg-day	3.0E-01	mg/kg-day	4.1E-04
			Exp. Route Total								2E-07					2E-02
			Dermal													
				Benzo(a)anthracene	6E-01	mg/kg	5.6E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.1E-09	2.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	5E-01	mg/kg	4.6E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.4E-08	1.6E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	6E-01	mg/kg	5.9E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.3E-09	2.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	3E-01	mg/kg	3.4E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	2.5E-10	1.2E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1E-01	mg/kg	1.1E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	7.9E-09	3.8E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	mg/kg	3.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.4E-09	1.2E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	4.6E-09	mg/kg-day	N/A	N/A	N/A	1.6E-07	mg/kg-day	2.0E-02	mg/kg-day	8.0E-06
				Aroclor 1260	5E-02	mg/kg	5.3E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	5.3E-10	1.9E-08	mg/kg-day	2.0E-05	mg/kg-day	9.3E-04
				Arsenic	3E+01	mg/kg	7.5E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.1E-07	2.6E-06	mg/kg-day	3.0E-04	mg/kg-day	8.8E-03
				Cadmium	2E+00	mg/kg	1.3E-09	mg/kg-day	N/A	N/A	N/A	4.6E-08	mg/kg-day	2.5E-05	mg/kg-day	1.9E-03
			Exp. Route Total								2E-07					1E-02
		Exposure Point Total									4E-07					3E-02

TABLE 3-7.3.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Sediment (cont.)	Sediment (cont.)	Station 01	Ingestion													
				Benzo(a)anthracene	2E-01	mg/kg	1.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.5E-10	4.5E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	1.2E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	8.6E-09	4.1E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E-01	mg/kg	1.1E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	8.2E-10	3.9E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E-01	mg/kg	1.2E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	8.7E-11	4.2E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	8.1E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.9E-10	2.8E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	3.1E-09	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	2.0E-02	mg/kg-day	5.5E-06
				Antimony	9E-01	mg/kg	6.0E-09	mg/kg-day	N/A	N/A	N/A	2.1E-07	mg/kg-day	4.0E-04	mg/kg-day	5.2E-04
				Arsenic	6E+00	mg/kg	4.2E-08	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.2E-08	1.5E-06	mg/kg-day	5.9E-04	mg/kg-day	2.5E-03
				Barium	1E+01	mg/kg	8.4E-08	mg/kg-day	N/A	N/A	N/A	2.9E-06	mg/kg-day	7.0E-02	mg/kg-day	4.2E-05
				Cadmium	2E-01	mg/kg	1.1E-09	mg/kg-day	N/A	N/A	N/A	3.9E-08	mg/kg-day	1.0E-03	mg/kg-day	3.9E-05
				Chromium III	8E+00	mg/kg	5.6E-08	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	1.5E+00	mg/kg-day	1.3E-06
				Copper	1E+01	mg/kg	8.0E-08	mg/kg-day	N/A	N/A	N/A	2.8E-06	mg/kg-day	3.0E-02	mg/kg-day	9.3E-05
				Lead												
				Manganese	8E+01	mg/kg	5.5E-07	mg/kg-day	N/A	N/A	N/A	1.9E-05	mg/kg-day	7.0E-02	mg/kg-day	2.8E-04
				Nickel	6E+00	mg/kg	4.3E-08	mg/kg-day	N/A	N/A	N/A	1.5E-06	mg/kg-day	2.0E-02	mg/kg-day	7.6E-05
				Thallium	5E-01	mg/kg	3.5E-09	mg/kg-day	N/A	N/A	N/A	1.2E-07	mg/kg-day	8.0E-05	mg/kg-day	1.5E-03
				Vanadium	1E+01	mg/kg	6.5E-08	mg/kg-day	N/A	N/A	N/A	2.3E-06	mg/kg-day	1.0E-03	mg/kg-day	2.3E-03
				Zinc	1E+02	mg/kg	6.9E-07	mg/kg-day	N/A	N/A	N/A	2.4E-05	mg/kg-day	3.0E-01	mg/kg-day	8.1E-05
			Exp. Route Total								4E-08					7E-03
			Dermal													
				Benzo(a)anthracene	2E-01	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
				Benzo(a)pyrene	2E-01	mg/kg	1.7E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.3E-08	6.0E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E-01	mg/kg	1.6E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.2E-09	5.7E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E-01	mg/kg	1.7E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.3E-10	6.1E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	1.2E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	8.7E-10	4.1E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	4.6E-09	mg/kg-day	N/A	N/A	N/A	1.6E-07	mg/kg-day	2.0E-02	mg/kg-day	8.0E-06
				Arsenic	6E+00	mg/kg	1.4E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.1E-08	4.9E-07	mg/kg-day	3.0E-04	mg/kg-day	1.6E-03
				Cadmium	2E-01	mg/kg	1.3E-10	mg/kg-day	N/A	N/A	N/A	4.4E-09	mg/kg-day	2.5E-05	mg/kg-day	1.8E-04
			Exp. Route Total								4E-08					2E-03
		Exposure Point Total									8E-08					9E-03
	Exposure Medium Total										N/A					N/A

TABLE 3-7.3.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Soil	Surface Soil	Station NR	Ingestion													
				Arsenic	2E+02	mg/kg	1.4E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.0E-06	4.8E-05	mg/kg-day	3.0E-04	mg/kg-day	1.6E-01
				Cadmium	2E+00	mg/kg	1.4E-08	mg/kg-day	N/A	N/A	N/A	5.1E-07	mg/kg-day	1.0E-03	mg/kg-day	5.1E-04
				Chromium VI	2E+02	mg/kg	1.2E-06	mg/kg-day	N/A	N/A	N/A	4.1E-05	mg/kg-day	3.0E-03	mg/kg-day	1.4E-02
				Copper	2E+02	mg/kg	1.2E-06	mg/kg-day	N/A	N/A	N/A	4.1E-05	mg/kg-day	3.0E-02	mg/kg-day	1.4E-03
				Manganese	3E+02	mg/kg	2.1E-06	mg/kg-day	N/A	N/A	N/A	7.3E-05	mg/kg-day	7.0E-02	mg/kg-day	1.0E-03
				Mercury	8E-01	mg/kg	5.5E-09	mg/kg-day	N/A	N/A	N/A	1.9E-07	mg/kg-day	1.0E-04	mg/kg-day	1.9E-03
				Vanadium	3E+01	mg/kg	1.7E-07	mg/kg-day	N/A	N/A	N/A	6.0E-06	mg/kg-day	1.0E-03	mg/kg-day	6.0E-03
				Zinc	5E+02	mg/kg	3.6E-06	mg/kg-day	N/A	N/A	N/A	1.2E-04	mg/kg-day	3.0E-01	mg/kg-day	4.2E-04
			Exp. Route Total								2E-06					2E-01
			Dermal													
				Arsenic	2E+02	mg/kg	4.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.9E-07	1.6E-05	mg/kg-day	3.0E-04	mg/kg-day	5.3E-02
				Cadmium	2E+00	mg/kg	1.6E-09	mg/kg-day	N/A	N/A	N/A	5.7E-08	mg/kg-day	2.5E-05	mg/kg-day	2.3E-03
			Exp. Route Total								7E-07					6E-02
		Exposure Point Total									3E-06					2E-01
		Station WS/WSS	Ingestion													
				Arsenic	1E+01	mg/kg	1.2E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.8E-06	1.4E-05	mg/kg-day	3.0E-04	mg/kg-day	4.8E-02
				Cadmium	2E-01	mg/kg	2.4E-08	mg/kg-day	N/A	N/A	N/A	2.8E-07	mg/kg-day	1.0E-03	mg/kg-day	2.8E-04
				Chromium VI	2E+01	mg/kg	2.2E-06	mg/kg-day	N/A	N/A	N/A	2.6E-05	mg/kg-day	3.0E-03	mg/kg-day	8.7E-03
				Copper	3E+01	mg/kg	3.3E-06	mg/kg-day	N/A	N/A	N/A	3.8E-05	mg/kg-day	3.0E-02	mg/kg-day	1.3E-03
				Manganese	2E+02	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	3.9E-03
				Mercury	1E-01	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	1E+00	mg/kg	1.5E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	8.0E-05	mg/kg-day	2.1E-02
				Vanadium	2E+01	mg/kg	2.9E-06	mg/kg-day	N/A	N/A	N/A	3.4E-05	mg/kg-day	1.0E-03	mg/kg-day	3.4E-02
				Zinc	7E+01	mg/kg	8.8E-06	mg/kg-day	N/A	N/A	N/A	1.0E-04	mg/kg-day	3.0E-01	mg/kg-day	3.4E-04
			Exp. Route Total								2E-06					1E-01
			Dermal													
				Arsenic	1E+01	mg/kg	6.8E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.0E-07	2.4E-06	mg/kg-day	3.0E-04	mg/kg-day	8.0E-03
				Cadmium	2E-01	mg/kg	4.4E-10	mg/kg-day	N/A	N/A	N/A	1.6E-08	mg/kg-day	2.5E-05	mg/kg-day	6.2E-04
			Exp. Route Total								1E-07					9E-03
		Exposure Point Total									2E-06					1E-01

TABLE 3-7.3.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Soil (cont.)	Surface Soil (cont.)	Station CB-05	Ingestion													
				Arsenic	6E+01	mg/kg	7.3E-06	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	1.1E-05	8.5E-05	mg/kg-day	3.0E-04	mg/kg-day	2.8E-01
				Cadmium	7E-01	mg/kg	8.3E-08	mg/kg-day	N/A	N/A	N/A	9.7E-07	mg/kg-day	1.0E-03	mg/kg-day	9.7E-04
				Chromium VI	1E+02	mg/kg	1.7E-05	mg/kg-day	N/A	N/A	N/A	2.0E-04	mg/kg-day	3.0E-03	mg/kg-day	6.5E-02
				Copper	5E+01	mg/kg	6.2E-06	mg/kg-day	N/A	N/A	N/A	7.2E-05	mg/kg-day	3.0E-02	mg/kg-day	2.4E-03
				Manganese	2E+02	mg/kg	2.8E-05	mg/kg-day	N/A	N/A	N/A	3.2E-04	mg/kg-day	7.0E-02	mg/kg-day	4.6E-03
				Mercury	3E-01	mg/kg	3.5E-08	mg/kg-day	N/A	N/A	N/A	4.1E-07	mg/kg-day	1.0E-04	mg/kg-day	4.1E-03
				Thallium	2E+00	mg/kg	2.0E-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	3E+01	mg/kg	3.2E-06	mg/kg-day	N/A	N/A	N/A	3.7E-05	mg/kg-day	1.0E-03	mg/kg-day	3.7E-02
				Zinc	2E+02	mg/kg	2.0E-05	mg/kg-day	N/A	N/A	N/A	2.4E-04	mg/kg-day	3.0E-01	mg/kg-day	7.9E-04
			Exp. Route Total								1E-05					4E-01
			Dermal													
				Arsenic	6E+01	mg/kg	4.1E-07	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	6.1E-07	1.4E-05	mg/kg-day	3.0E-04	mg/kg-day	4.8E-02
				Cadmium	7E-01	mg/kg	1.6E-09	mg/kg-day	N/A	N/A	N/A	5.4E-08	mg/kg-day	2.5E-05	mg/kg-day	2.2E-03
			Exp. Route Total								6E-07					5E-02
		Exposure Point Total									1E-05					5E-01
		Station DA	Ingestion													
				Arsenic	2E+02	mg/kg	1.3E-06	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	2.0E-06	4.6E-05	mg/kg-day	3.0E-04	mg/kg-day	1.5E-01
				Cadmium	1E+00	mg/kg	9.2E-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
				Chromium VI	4E+02	mg/kg	2.7E-06	mg/kg-day	N/A	N/A	N/A	9.3E-05	mg/kg-day	3.0E-03	mg/kg-day	3.1E-02
				Copper	2E+02	mg/kg	1.7E-06	mg/kg-day	N/A	N/A	N/A	5.9E-05	mg/kg-day	3.0E-02	mg/kg-day	2.0E-03
				Manganese	8E+02	mg/kg	5.4E-06	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	8.1E-09	mg/kg-day	N/A	N/A	N/A	2.8E-07	mg/kg-day	1.0E-04	mg/kg-day	2.8E-03
				Thallium	3E+00	mg/kg	2.3E-08	mg/kg-day	N/A	N/A	N/A	7.9E-07	mg/kg-day	8.0E-05	mg/kg-day	9.9E-03
				Vanadium	4E+01	mg/kg	2.6E-07	mg/kg-day	N/A	N/A	N/A	9.0E-06	mg/kg-day	1.0E-03	mg/kg-day	9.0E-03
				Zinc	6E+02	mg/kg	4.0E-06	mg/kg-day	N/A	N/A	N/A	1.4E-04	mg/kg-day	3.0E-01	mg/kg-day	4.7E-04
			Exp. Route Total								2E-06					2E-01
			Dermal													
				Arsenic	2E+02	mg/kg	4.4E-07	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	6.7E-07	1.6E-05	mg/kg-day	3.0E-04	mg/kg-day	5.2E-02
				Cadmium	1E+00	mg/kg	1.0E-09	mg/kg-day	N/A	N/A	N/A	3.6E-08	mg/kg-day	2.5E-05	mg/kg-day	1.4E-03
			Exp. Route Total								7E-07					5E-02
		Exposure Point Total									3E-06					3E-01

TABLE 3-7.3.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	
Soil (cont.)	Surface Soil (cont.)	Station KF	Ingestion													
				Arsenic	5E+01	mg/kg	3.1E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.7E-07	1.1E-05	mg/kg-day	3.0E-04	mg/kg-day	3.6E-02
				Cadmium	1E+00	mg/kg	9.6E-09	mg/kg-day	N/A	N/A	N/A	3.3E-07	mg/kg-day	1.0E-03	mg/kg-day	3.3E-04
				Chromium VI	1E+02	mg/kg	8.1E-07	mg/kg-day	N/A	N/A	N/A	2.8E-05	mg/kg-day	3.0E-03	mg/kg-day	9.4E-03
				Copper	1E+02	mg/kg	7.3E-07	mg/kg-day	N/A	N/A	N/A	2.6E-05	mg/kg-day	3.0E-02	mg/kg-day	8.6E-04
				Manganese	8E+02	mg/kg	5.6E-06	mg/kg-day	N/A	N/A	N/A	2.0E-04	mg/kg-day	7.0E-02	mg/kg-day	2.8E-03
				Mercury	7E-01	mg/kg	4.7E-09	mg/kg-day	N/A	N/A	N/A	1.6E-07	mg/kg-day	1.0E-04	mg/kg-day	1.6E-03
				Vanadium	3E+01	mg/kg	2.0E-07	mg/kg-day	N/A	N/A	N/A	6.9E-06	mg/kg-day	1.0E-03	mg/kg-day	6.9E-03
				Zinc	4E+02	mg/kg	2.6E-06	mg/kg-day	N/A	N/A	N/A	9.3E-05	mg/kg-day	3.0E-01	mg/kg-day	3.1E-04
			Exp. Route Total								5E-07					6E-02
			Dermal													
				Arsenic	5E+01	mg/kg	1.0E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.6E-07	3.7E-06	mg/kg-day	3.0E-04	mg/kg-day	1.2E-02
				Cadmium	1E+00	mg/kg	1.1E-09	mg/kg-day	N/A	N/A	N/A	3.7E-08	mg/kg-day	2.5E-05	mg/kg-day	1.5E-03
			Exp. Route Total								2E-07					1E-02
		Exposure Point Total									6E-07					7E-02
		Station 07/DP	Ingestion													
				Arsenic	4E+01	mg/kg	3.0E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.5E-07	1.1E-05	mg/kg-day	3.0E-04	mg/kg-day	3.5E-02
				Cadmium	2E-01	mg/kg	1.3E-09	mg/kg-day	N/A	N/A	N/A	4.5E-08	mg/kg-day	1.0E-03	mg/kg-day	4.5E-05
				Chromium VI	1E+02	mg/kg	9.5E-07	mg/kg-day	N/A	N/A	N/A	3.3E-05	mg/kg-day	3.0E-03	mg/kg-day	1.1E-02
				Copper	1E+02	mg/kg	6.9E-07	mg/kg-day	N/A	N/A	N/A	2.4E-05	mg/kg-day	3.0E-02	mg/kg-day	8.0E-04
				Manganese	3E+02	mg/kg	2.2E-06	mg/kg-day	N/A	N/A	N/A	7.8E-05	mg/kg-day	7.0E-02	mg/kg-day	1.1E-03
				Mercury	1E+00	mg/kg	6.5E-09	mg/kg-day	N/A	N/A	N/A	2.3E-07	mg/kg-day	1.0E-04	mg/kg-day	2.3E-03
				Thallium	2E+00	mg/kg	1.3E-08	mg/kg-day	N/A	N/A	N/A	4.5E-07	mg/kg-day	8.0E-05	mg/kg-day	5.6E-03
				Vanadium	3E+01	mg/kg	2.1E-07	mg/kg-day	N/A	N/A	N/A	7.5E-06	mg/kg-day	1.0E-03	mg/kg-day	7.5E-03
				Zinc	2E+04	mg/kg	1.3E-04	mg/kg-day	N/A	N/A	N/A	4.5E-03	mg/kg-day	3.0E-01	mg/kg-day	1.5E-02
			Exp. Route Total								5E-07					8E-02
			Dermal													
				Arsenic	4E+01	mg/kg	1.0E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.5E-07	3.6E-06	mg/kg-day	3.0E-04	mg/kg-day	1.2E-02
				Cadmium	2E-01	mg/kg	1.4E-10	mg/kg-day	N/A	N/A	N/A	5.0E-09	mg/kg-day	2.5E-05	mg/kg-day	2.0E-04
			Exp. Route Total								2E-07					1E-02
		Exposure Point Total									6E-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
											N/A					Total of Receptor Hazards Across All Media

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	Surface Water	Station NR (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	3.0E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	2.7E-09	3.5E-09	mg/kg-day	1.3E-05	mg/kg-day	2.7E-04
				Arsenic	5E+01	ug/L	1.1E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.6E-07	1.2E-06	mg/kg-day	3.0E-04	mg/kg-day	4.1E-03
				Cadmium	3E+00	ug/L	5.7E-09	mg/kg-day	N/A	N/A	N/A	6.6E-08	mg/kg-day	2.5E-05	mg/kg-day	2.7E-03
				Chromium VI	6E+01	ug/L	2.7E-07	mg/kg-day	N/A	N/A	N/A	3.1E-06	mg/kg-day	7.5E-05	mg/kg-day	4.2E-02
				Lead												
				Manganese	6E+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	5.5E-03
				Mercury	6E-01	ug/L	1.4E-09	mg/kg-day	N/A	N/A	N/A	1.6E-08	mg/kg-day	2.1E-05	mg/kg-day	7.7E-04
			Exp. Route Total								2E-07					6E-02
		Exposure Point Total									2E-07					6E-02
		Station 14 (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	3.0E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	2.7E-09	3.5E-09	mg/kg-day	1.3E-05	mg/kg-day	2.7E-04
				Arsenic	5E+01	ug/L	1.1E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.6E-07	1.2E-06	mg/kg-day	3.0E-04	mg/kg-day	4.1E-03
				Cadmium	3E+00	ug/L	5.7E-09	mg/kg-day	N/A	N/A	N/A	6.6E-08	mg/kg-day	2.5E-05	mg/kg-day	2.7E-03
				Chromium VI	6E+01	ug/L	2.7E-07	mg/kg-day	N/A	N/A	N/A	3.1E-06	mg/kg-day	7.5E-05	mg/kg-day	4.2E-02
				Lead												
				Manganese	6E+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	5.5E-03
				Mercury	6E-01	ug/L	1.4E-09	mg/kg-day	N/A	N/A	N/A	1.6E-08	mg/kg-day	2.1E-05	mg/kg-day	7.7E-04
			Exp. Route Total								2E-07					6E-02
		Exposure Point Total									2E-07					6E-02
		Station 22/11-22 (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	4.5E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	4.1E-09	5.2E-09	mg/kg-day	1.3E-05	mg/kg-day	4.0E-04
				Arsenic	5E+01	ug/L	1.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.4E-07	1.8E-06	mg/kg-day	3.0E-04	mg/kg-day	6.2E-03
				Cadmium	3E+00	ug/L	8.5E-09	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	2.5E-05	mg/kg-day	4.0E-03
				Chromium VI	6E+01	ug/L	4.0E-07	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	7.5E-05	mg/kg-day	6.3E-02
				Lead												
				Manganese	6E+02	ug/L	2.0E-06	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	2.8E-03	mg/kg-day	8.3E-03
				Mercury	8E-01	ug/L	2.1E-09	mg/kg-day	N/A	N/A	N/A	2.4E-08	mg/kg-day	2.1E-05	mg/kg-day	1.2E-03
			Exp. Route Total								2E-07					8E-02
		Exposure Point Total									2E-07					8E-02

TABLE 3-7.4.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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 (cont.)	Surface Water (cont.)	Station 13/TT-27 (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	4.5E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	4.1E-09	5.2E-09	mg/kg-day	1.3E-05	mg/kg-day	4.0E-04
				Arsenic	5E+01	ug/L	1.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.4E-07	1.8E-06	mg/kg-day	3.0E-04	mg/kg-day	6.2E-03
				Cadmium	3E+00	ug/L	8.5E-09	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	2.5E-05	mg/kg-day	4.0E-03
				Chromium VI	6E+01	ug/L	4.0E-07	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	7.5E-05	mg/kg-day	6.3E-02
				Lead												
				Manganese	6E+02	ug/L	2.0E-06	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	2.8E-03	mg/kg-day	8.3E-03
				Mercury	6E-01	ug/L	2.1E-09	mg/kg-day	N/A	N/A	N/A	2.4E-08	mg/kg-day	2.1E-05	mg/kg-day	1.2E-03
			Exp. Route Total								2E-07					8E-02
		Exposure Point Total									2E-07					8E-02
		Station WH (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	4.5E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	4.1E-09	5.2E-09	mg/kg-day	1.3E-05	mg/kg-day	4.0E-04
				Arsenic	5E+01	ug/L	1.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.4E-07	1.8E-06	mg/kg-day	3.0E-04	mg/kg-day	6.2E-03
				Cadmium	3E+00	ug/L	8.5E-09	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	2.5E-05	mg/kg-day	4.0E-03
				Chromium VI	6E+01	ug/L	4.0E-07	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	7.5E-05	mg/kg-day	6.3E-02
				Lead												
				Manganese	6E+02	ug/L	2.0E-06	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	2.8E-03	mg/kg-day	8.3E-03
				Mercury	6E-01	ug/L	2.1E-09	mg/kg-day	N/A	N/A	N/A	2.4E-08	mg/kg-day	2.1E-05	mg/kg-day	1.2E-03
			Exp. Route Total								2E-07					8E-02
		Exposure Point Total									2E-07					8E-02
		Station NT-1 (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	4.5E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	4.1E-09	5.2E-09	mg/kg-day	1.3E-05	mg/kg-day	4.0E-04
				Arsenic	5E+01	ug/L	1.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.4E-07	1.8E-06	mg/kg-day	3.0E-04	mg/kg-day	6.2E-03
				Cadmium	3E+00	ug/L	8.5E-09	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	2.5E-05	mg/kg-day	4.0E-03
				Chromium VI	6E+01	ug/L	4.0E-07	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	7.5E-05	mg/kg-day	6.3E-02
				Lead												
				Manganese	6E+02	ug/L	2.0E-06	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	2.8E-03	mg/kg-day	8.3E-03
				Mercury	6E-01	ug/L	2.1E-09	mg/kg-day	N/A	N/A	N/A	2.4E-08	mg/kg-day	2.1E-05	mg/kg-day	1.2E-03
			Exp. Route Total								2E-07					8E-02
		Exposure Point Total									2E-07					8E-02

TABLE 3-7.4.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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 (cont.)	Surface Water (cont.)	Station NT-2 (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	4.5E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	4.1E-09	5.2E-09	mg/kg-day	1.3E-05	mg/kg-day	4.0E-04
				Arsenic	5E+01	ug/L	1.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.4E-07	1.8E-06	mg/kg-day	3.0E-04	mg/kg-day	6.2E-03
				Cadmium	3E+00	ug/L	8.5E-09	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	2.5E-05	mg/kg-day	4.0E-03
				Chromium VI	6E+01	ug/L	4.0E-07	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	7.5E-05	mg/kg-day	6.3E-02
				Lead												
				Manganese	6E+02	ug/L	2.0E-06	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	2.8E-03	mg/kg-day	8.3E-03
				Mercury	6E-01	ug/L	2.1E-09	mg/kg-day	N/A	N/A	N/A	2.4E-08	mg/kg-day	2.1E-05	mg/kg-day	1.2E-03
			Exp. Route Total								2E-07					8E-02
		Exposure Point Total									2E-07					8E-02
		Station NT-3 (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	4.5E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	4.1E-09	5.2E-09	mg/kg-day	1.3E-05	mg/kg-day	4.0E-04
				Arsenic	5E+01	ug/L	1.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.4E-07	1.8E-06	mg/kg-day	3.0E-04	mg/kg-day	6.2E-03
				Cadmium	3E+00	ug/L	8.5E-09	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	2.5E-05	mg/kg-day	4.0E-03
				Chromium VI	6E+01	ug/L	4.0E-07	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	7.5E-05	mg/kg-day	6.3E-02
				Lead												
				Manganese	6E+02	ug/L	2.0E-06	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	2.8E-03	mg/kg-day	8.3E-03
				Mercury	6E-01	ug/L	2.1E-09	mg/kg-day	N/A	N/A	N/A	2.4E-08	mg/kg-day	2.1E-05	mg/kg-day	1.2E-03
			Exp. Route Total								2E-07					8E-02
		Exposure Point Total									2E-07					8E-02
		Station WG (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	4.5E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	4.1E-09	5.2E-09	mg/kg-day	1.3E-05	mg/kg-day	4.0E-04
				Arsenic	5E+01	ug/L	1.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.4E-07	1.8E-06	mg/kg-day	3.0E-04	mg/kg-day	6.2E-03
				Cadmium	3E+00	ug/L	8.5E-09	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	2.5E-05	mg/kg-day	4.0E-03
				Chromium VI	6E+01	ug/L	4.0E-07	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	7.5E-05	mg/kg-day	6.3E-02
				Lead												
				Manganese	6E+02	ug/L	2.0E-06	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	2.8E-03	mg/kg-day	8.3E-03
				Mercury	6E-01	ug/L	2.1E-09	mg/kg-day	N/A	N/A	N/A	2.4E-08	mg/kg-day	2.1E-05	mg/kg-day	1.2E-03
			Exp. Route Total								2E-07					8E-02
		Exposure Point Total									2E-07					8E-02

TABLE 3-7.4.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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 (cont.)	Surface Water (cont.)	Station WW (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	4.5E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	4.1E-09	5.2E-09	mg/kg-day	1.3E-05	mg/kg-day	4.0E-04
				Arsenic	5E+01	ug/L	1.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.4E-07	1.8E-06	mg/kg-day	3.0E-04	mg/kg-day	6.2E-03
				Cadmium	3E+00	ug/L	8.5E-09	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	2.5E-05	mg/kg-day	4.0E-03
				Chromium VI	6E+01	ug/L	4.0E-07	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	7.5E-05	mg/kg-day	6.3E-02
				Lead												
				Manganese	6E+02	ug/L	2.0E-06	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	2.8E-03	mg/kg-day	8.3E-03
				Mercury	6E-01	ug/L	2.1E-09	mg/kg-day	N/A	N/A	N/A	2.4E-08	mg/kg-day	2.1E-05	mg/kg-day	1.2E-03
			Exp. Route Total								2E-07					8E-02
		Exposure Point Total									2E-07					8E-02
		Station JY (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	4.5E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	4.1E-09	5.2E-09	mg/kg-day	1.3E-05	mg/kg-day	4.0E-04
				Arsenic	5E+01	ug/L	1.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.4E-07	1.8E-06	mg/kg-day	3.0E-04	mg/kg-day	6.2E-03
				Cadmium	3E+00	ug/L	8.5E-09	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	2.5E-05	mg/kg-day	4.0E-03
				Chromium VI	6E+01	ug/L	4.0E-07	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	7.5E-05	mg/kg-day	6.3E-02
				Lead												
				Manganese	6E+02	ug/L	2.0E-06	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	2.8E-03	mg/kg-day	8.3E-03
				Mercury	6E-01	ug/L	2.1E-09	mg/kg-day	N/A	N/A	N/A	2.4E-08	mg/kg-day	2.1E-05	mg/kg-day	1.2E-03
			Exp. Route Total								2E-07					8E-02
		Exposure Point Total									2E-07					8E-02
		Station WS/WSS (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	5.9E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	5.4E-09	6.9E-09	mg/kg-day	1.3E-05	mg/kg-day	5.3E-04
				Arsenic	5E+01	ug/L	2.1E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.2E-07	2.5E-06	mg/kg-day	3.0E-04	mg/kg-day	8.2E-03
				Cadmium	3E+00	ug/L	1.1E-08	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	2.5E-05	mg/kg-day	5.3E-03
				Chromium VI	6E+01	ug/L	5.4E-07	mg/kg-day	N/A	N/A	N/A	6.3E-06	mg/kg-day	7.5E-05	mg/kg-day	8.3E-02
				Lead												
				Manganese	6E+02	ug/L	2.6E-06	mg/kg-day	N/A	N/A	N/A	3.1E-05	mg/kg-day	2.8E-03	mg/kg-day	1.1E-02
				Mercury	6E-01	ug/L	2.8E-09	mg/kg-day	N/A	N/A	N/A	3.2E-08	mg/kg-day	2.1E-05	mg/kg-day	1.5E-03
			Exp. Route Total								3E-07					1E-01
		Exposure Point Total									3E-07					1E-01

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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 (cont.)	Surface Water (cont.)	Station TT-30 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	5.8E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	2.3E-08	6.8E-07	mg/kg-day	3.0E-04	mg/kg-day	2.3E-03
				Arsenic	2E+01	ug/L	2.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.4E-08	2.6E-07	mg/kg-day	3.0E-04	mg/kg-day	8.8E-04
				Cadmium	2E-01	ug/L	2.6E-10	mg/kg-day	N/A	N/A	N/A	3.1E-09	mg/kg-day	2.5E-05	mg/kg-day	1.2E-04
				Chromium VI	1E+01	ug/L	2.8E-08	mg/kg-day	N/A	N/A	N/A	3.2E-07	mg/kg-day	7.5E-05	mg/kg-day	4.3E-03
				Lead												
				Manganese	8E+02	ug/L	8.9E-07	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	2.8E-03	mg/kg-day	3.7E-03
				Mercury	1E-01	ug/L	1.7E-10	mg/kg-day	N/A	N/A	N/A	2.0E-09	mg/kg-day	2.1E-05	mg/kg-day	9.3E-05
			Exp. Route Total								6E-08					1E-02
		Exposure Point Total									6E-08					1E-02
		Station TT-31 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	1.7E-07	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	7.0E-08	2.0E-06	mg/kg-day	3.0E-04	mg/kg-day	6.8E-03
				Arsenic	2E+01	ug/L	6.8E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.0E-07	7.9E-07	mg/kg-day	3.0E-04	mg/kg-day	2.6E-03
				Cadmium	2E-01	ug/L	7.9E-10	mg/kg-day	N/A	N/A	N/A	9.2E-09	mg/kg-day	2.5E-05	mg/kg-day	3.7E-04
				Chromium VI	1E+01	ug/L	8.3E-08	mg/kg-day	N/A	N/A	N/A	9.7E-07	mg/kg-day	7.5E-05	mg/kg-day	1.3E-02
				Lead												
				Manganese	8E+02	ug/L	2.7E-06	mg/kg-day	N/A	N/A	N/A	3.1E-05	mg/kg-day	2.8E-03	mg/kg-day	1.1E-02
				Mercury	1E-01	ug/L	5.0E-10	mg/kg-day	N/A	N/A	N/A	5.9E-09	mg/kg-day	2.1E-05	mg/kg-day	2.8E-04
			Exp. Route Total								2E-07					3E-02
		Exposure Point Total									2E-07					3E-02
		Station CB-01 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	2.3E-07	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	9.3E-08	2.7E-06	mg/kg-day	3.0E-04	mg/kg-day	9.0E-03
				Arsenic	2E+01	ug/L	9.0E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.4E-07	1.1E-06	mg/kg-day	3.0E-04	mg/kg-day	3.5E-03
				Cadmium	2E-01	ug/L	1.0E-09	mg/kg-day	N/A	N/A	N/A	1.2E-08	mg/kg-day	2.5E-05	mg/kg-day	4.9E-04
				Chromium VI	1E+01	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	7.5E-05	mg/kg-day	1.7E-02
				Lead												
				Manganese	8E+02	ug/L	3.5E-06	mg/kg-day	N/A	N/A	N/A	4.1E-05	mg/kg-day	2.8E-03	mg/kg-day	1.5E-02
				Mercury	1E-01	ug/L	6.7E-10	mg/kg-day	N/A	N/A	N/A	7.8E-09	mg/kg-day	2.1E-05	mg/kg-day	3.7E-04
			Exp. Route Total								2E-07					5E-02
		Exposure Point Total									2E-07					5E-02

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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 (cont.)	Surface Water (cont.)	Station CB-02 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	2.3E-07	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	9.3E-08	2.7E-06	mg/kg-day	3.0E-04	mg/kg-day	9.0E-03
				Arsenic	2E+01	ug/L	9.0E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.4E-07	1.1E-06	mg/kg-day	3.0E-04	mg/kg-day	3.5E-03
				Cadmium	2E-01	ug/L	1.0E-09	mg/kg-day	N/A	N/A	N/A	1.2E-08	mg/kg-day	2.5E-05	mg/kg-day	4.9E-04
				Chromium VI	1E+01	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	7.5E-05	mg/kg-day	1.7E-02
				Lead												
				Manganese	8E+02	ug/L	3.5E-06	mg/kg-day	N/A	N/A	N/A	4.1E-05	mg/kg-day	2.8E-03	mg/kg-day	1.5E-02
				Mercury	1E-01	ug/L	6.7E-10	mg/kg-day	N/A	N/A	N/A	7.8E-09	mg/kg-day	2.1E-05	mg/kg-day	3.7E-04
			Exp. Route Total								2E-07					5E-02
		Exposure Point Total									2E-07					5E-02
		Station CB-03 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	2.3E-07	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	9.3E-08	2.7E-06	mg/kg-day	3.0E-04	mg/kg-day	9.0E-03
				Arsenic	2E+01	ug/L	9.0E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.4E-07	1.1E-06	mg/kg-day	3.0E-04	mg/kg-day	3.5E-03
				Cadmium	2E-01	ug/L	1.0E-09	mg/kg-day	N/A	N/A	N/A	1.2E-08	mg/kg-day	2.5E-05	mg/kg-day	4.9E-04
				Chromium VI	1E+01	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	7.5E-05	mg/kg-day	1.7E-02
				Lead												
				Manganese	8E+02	ug/L	3.5E-06	mg/kg-day	N/A	N/A	N/A	4.1E-05	mg/kg-day	2.8E-03	mg/kg-day	1.5E-02
				Mercury	1E-01	ug/L	6.7E-10	mg/kg-day	N/A	N/A	N/A	7.8E-09	mg/kg-day	2.1E-05	mg/kg-day	3.7E-04
			Exp. Route Total								2E-07					5E-02
		Exposure Point Total									2E-07					5E-02
		Station CB-04 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	2.3E-07	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	9.3E-08	2.7E-06	mg/kg-day	3.0E-04	mg/kg-day	9.0E-03
				Arsenic	2E+01	ug/L	9.0E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.4E-07	1.1E-06	mg/kg-day	3.0E-04	mg/kg-day	3.5E-03
				Cadmium	2E-01	ug/L	1.0E-09	mg/kg-day	N/A	N/A	N/A	1.2E-08	mg/kg-day	2.5E-05	mg/kg-day	4.9E-04
				Chromium VI	1E+01	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	7.5E-05	mg/kg-day	1.7E-02
				Lead												
				Manganese	8E+02	ug/L	3.5E-06	mg/kg-day	N/A	N/A	N/A	4.1E-05	mg/kg-day	2.8E-03	mg/kg-day	1.5E-02
				Mercury	1E-01	ug/L	6.7E-10	mg/kg-day	N/A	N/A	N/A	7.8E-09	mg/kg-day	2.1E-05	mg/kg-day	3.7E-04
			Exp. Route Total								2E-07					5E-02
		Exposure Point Total									2E-07					5E-02

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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 (cont.)	Surface Water (cont.)	Station CB-06 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	2.3E-07	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	9.3E-08	2.7E-06	mg/kg-day	3.0E-04	mg/kg-day	9.0E-03
				Arsenic	2E+01	ug/L	9.0E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.4E-07	1.1E-06	mg/kg-day	3.0E-04	mg/kg-day	3.5E-03
				Cadmium	2E-01	ug/L	1.0E-09	mg/kg-day	N/A	N/A	N/A	1.2E-08	mg/kg-day	2.5E-05	mg/kg-day	4.9E-04
				Chromium VI	1E+01	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	7.5E-05	mg/kg-day	1.7E-02
				Lead												
				Manganese	8E+02	ug/L	3.5E-06	mg/kg-day	N/A	N/A	N/A	4.1E-05	mg/kg-day	2.8E-03	mg/kg-day	1.5E-02
				Mercury	1E-01	ug/L	6.7E-10	mg/kg-day	N/A	N/A	N/A	7.8E-09	mg/kg-day	2.1E-05	mg/kg-day	3.7E-04
			Exp. Route Total								2E-07					5E-02
		Exposure Point Total									2E-07					5E-02
		Station CB-07 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	5.8E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	2.3E-08	6.8E-07	mg/kg-day	3.0E-04	mg/kg-day	2.3E-03
				Arsenic	2E+01	ug/L	2.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.4E-08	2.6E-07	mg/kg-day	3.0E-04	mg/kg-day	8.8E-04
				Cadmium	2E-01	ug/L	2.6E-10	mg/kg-day	N/A	N/A	N/A	3.1E-09	mg/kg-day	2.5E-05	mg/kg-day	1.2E-04
				Chromium VI	1E+01	ug/L	2.8E-08	mg/kg-day	N/A	N/A	N/A	3.2E-07	mg/kg-day	7.5E-05	mg/kg-day	4.3E-03
				Lead												
				Manganese	8E+02	ug/L	8.9E-07	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	2.8E-03	mg/kg-day	3.7E-03
				Mercury	1E-01	ug/L	1.7E-10	mg/kg-day	N/A	N/A	N/A	2.0E-09	mg/kg-day	2.1E-05	mg/kg-day	9.3E-05
			Exp. Route Total								6E-08					1E-02
		Exposure Point Total									6E-08					1E-02
		Station 16/11-33 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	1.7E-07	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	7.0E-08	2.0E-06	mg/kg-day	3.0E-04	mg/kg-day	6.8E-03
				Arsenic	2E+01	ug/L	6.8E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.0E-07	7.9E-07	mg/kg-day	3.0E-04	mg/kg-day	2.6E-03
				Cadmium	2E-01	ug/L	7.9E-10	mg/kg-day	N/A	N/A	N/A	9.2E-09	mg/kg-day	2.5E-05	mg/kg-day	3.7E-04
				Chromium VI	1E+01	ug/L	8.3E-08	mg/kg-day	N/A	N/A	N/A	9.7E-07	mg/kg-day	7.5E-05	mg/kg-day	1.3E-02
				Lead												
				Manganese	8E+02	ug/L	2.7E-06	mg/kg-day	N/A	N/A	N/A	3.1E-05	mg/kg-day	2.8E-03	mg/kg-day	1.1E-02
				Mercury	1E-01	ug/L	5.0E-10	mg/kg-day	N/A	N/A	N/A	5.9E-09	mg/kg-day	2.1E-05	mg/kg-day	2.8E-04
			Exp. Route Total								2E-07					3E-02
		Exposure Point Total									2E-07					3E-02

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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 (cont.)	Surface Water (cont.)	Station 09 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	1.7E-07	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	7.0E-08	2.0E-06	mg/kg-day	3.0E-04	mg/kg-day	6.8E-03
				Arsenic	2E+01	ug/L	6.8E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.0E-07	7.9E-07	mg/kg-day	3.0E-04	mg/kg-day	2.6E-03
				Cadmium	2E-01	ug/L	7.9E-10	mg/kg-day	N/A	N/A	N/A	9.2E-09	mg/kg-day	2.5E-05	mg/kg-day	3.7E-04
				Chromium VI	1E+01	ug/L	8.3E-08	mg/kg-day	N/A	N/A	N/A	9.7E-07	mg/kg-day	7.5E-05	mg/kg-day	1.3E-02
				Lead												
				Manganese	8E+02	ug/L	2.7E-06	mg/kg-day	N/A	N/A	N/A	3.1E-05	mg/kg-day	2.8E-03	mg/kg-day	1.1E-02
				Mercury	1E-01	ug/L	5.0E-10	mg/kg-day	N/A	N/A	N/A	5.9E-09	mg/kg-day	2.1E-05	mg/kg-day	2.8E-04
			Exp. Route Total								2E-07					3E-02
		Exposure Point Total									2E-07					3E-02
		Station DA (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	1.7E-07	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	7.0E-08	2.0E-06	mg/kg-day	3.0E-04	mg/kg-day	6.8E-03
				Arsenic	2E+01	ug/L	6.8E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.0E-07	7.9E-07	mg/kg-day	3.0E-04	mg/kg-day	2.6E-03
				Cadmium	2E-01	ug/L	7.9E-10	mg/kg-day	N/A	N/A	N/A	9.2E-09	mg/kg-day	2.5E-05	mg/kg-day	3.7E-04
				Chromium VI	1E+01	ug/L	8.3E-08	mg/kg-day	N/A	N/A	N/A	9.7E-07	mg/kg-day	7.5E-05	mg/kg-day	1.3E-02
				Lead												
				Manganese	8E+02	ug/L	2.7E-06	mg/kg-day	N/A	N/A	N/A	3.1E-05	mg/kg-day	2.8E-03	mg/kg-day	1.1E-02
				Mercury	1E-01	ug/L	5.0E-10	mg/kg-day	N/A	N/A	N/A	5.9E-09	mg/kg-day	2.1E-05	mg/kg-day	2.8E-04
			Exp. Route Total								2E-07					3E-02
		Exposure Point Total									2E-07					3E-02
		Station AM (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	5.8E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	2.3E-08	6.8E-07	mg/kg-day	3.0E-04	mg/kg-day	2.3E-03
				Arsenic	2E+01	ug/L	2.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.4E-08	2.6E-07	mg/kg-day	3.0E-04	mg/kg-day	8.8E-04
				Cadmium	2E-01	ug/L	2.6E-10	mg/kg-day	N/A	N/A	N/A	3.1E-09	mg/kg-day	2.5E-05	mg/kg-day	1.2E-04
				Chromium VI	1E+01	ug/L	2.8E-08	mg/kg-day	N/A	N/A	N/A	3.2E-07	mg/kg-day	7.5E-05	mg/kg-day	4.3E-03
				Lead												
				Manganese	8E+02	ug/L	8.9E-07	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	2.8E-03	mg/kg-day	3.7E-03
				Mercury	1E-01	ug/L	1.7E-10	mg/kg-day	N/A	N/A	N/A	2.0E-09	mg/kg-day	2.1E-05	mg/kg-day	9.3E-05
			Exp. Route Total								6E-08					1E-02
		Exposure Point Total									6E-08					1E-02
		Station KF (Lower Reach 2)	Dermal	Arsenic	7E+00	ug/L	2.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.5E-08	2.7E-07	mg/kg-day	3.0E-04	mg/kg-day	9.0E-04
				Chromium VI	2E+00	ug/L	1.5E-08	mg/kg-day	N/A	N/A	N/A	1.8E-07	mg/kg-day	7.5E-05	mg/kg-day	2.3E-03
				Manganese	4E+02	ug/L	1.2E-06	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	2.8E-03	mg/kg-day	5.1E-03
			Exp. Route Total								3E-08					8E-03
		Exposure Point Total									3E-08					8E-03

TABLE 3-7.4.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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 (cont.)	Surface Water (cont.)	Station 08 (Lower Reach 2)	Dermal	Arsenic	7E+00	ug/L	2.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.5E-08	2.7E-07	mg/kg-day	3.0E-04	mg/kg-day	9.0E-04
				Chromium VI	2E+00	ug/L	1.5E-08	mg/kg-day	N/A	N/A	N/A	1.8E-07	mg/kg-day	7.5E-05	mg/kg-day	2.3E-03
				Manganese	4E+02	ug/L	1.2E-06	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	2.8E-03	mg/kg-day	5.1E-03
			Exp. Route Total								3E-08					8E-03
		Exposure Point Total									3E-08					8E-03
		Station 07/DP (Reach 3)	Dermal	Chromium VI	3E+00	ug/L	2.1E-08	mg/kg-day	N/A	N/A	N/A	2.5E-07	mg/kg-day	7.5E-05	mg/kg-day	3.3E-03
				Lead												
				Manganese	6E+02	ug/L	2.0E-06	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	2.8E-03	mg/kg-day	8.3E-03
				Mercury	2E-01	ug/L	7.5E-10	mg/kg-day	N/A	N/A	N/A	8.8E-09	mg/kg-day	2.1E-05	mg/kg-day	4.2E-04
			Exp. Route Total								N/A					1E-02
		Exposure Point Total									N/A					1E-02
		Station LP (Reach 3)	Dermal	Chromium VI	3E+00	ug/L	2.1E-08	mg/kg-day	N/A	N/A	N/A	2.5E-07	mg/kg-day	7.5E-05	mg/kg-day	3.3E-03
				Lead												
				Manganese	6E+02	ug/L	2.0E-06	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	2.8E-03	mg/kg-day	8.3E-03
				Mercury	2E-01	ug/L	7.5E-10	mg/kg-day	N/A	N/A	N/A	8.8E-09	mg/kg-day	2.1E-05	mg/kg-day	4.2E-04
			Exp. Route Total								N/A					1E-02
		Exposure Point Total									N/A					1E-02
		Station AS (Reach 3)	Dermal	Chromium VI	3E+00	ug/L	2.1E-08	mg/kg-day	N/A	N/A	N/A	2.5E-07	mg/kg-day	7.5E-05	mg/kg-day	3.3E-03
				Lead												
				Manganese	6E+02	ug/L	2.0E-06	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	2.8E-03	mg/kg-day	8.3E-03
				Mercury	2E-01	ug/L	7.5E-10	mg/kg-day	N/A	N/A	N/A	8.8E-09	mg/kg-day	2.1E-05	mg/kg-day	4.2E-04
			Exp. Route Total								N/A					1E-02
		Exposure Point Total									N/A					1E-02
		Station 06 (Reach 4)	Dermal	Chromium VI	4E+00	ug/L	2.9E-08	mg/kg-day	N/A	N/A	N/A	3.4E-07	mg/kg-day	7.5E-05	mg/kg-day	4.6E-03
				Lead												
				Manganese	5E+02	ug/L	1.7E-06	mg/kg-day	N/A	N/A	N/A	2.0E-05	mg/kg-day	2.8E-03	mg/kg-day	7.2E-03
			Exp. Route Total								N/A					1E-02
		Exposure Point Total									N/A					1E-02

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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 (cont.)	Surface Water (cont.)	Station 05 (Reach 5)	Dermal	Chloroform	1E+00	ug/L	4.5E-08	mg/kg-day	N/A	N/A	N/A	5.2E-07	mg/kg-day	1.0E-02	mg/kg-day	5.2E-05
				Tetrachloroethene	2E+00	ug/L	5.9E-07	mg/kg-day	5.4E-01	(mg/kg-day) $^{-1}$	3.2E-07	6.9E-06	mg/kg-day	1.0E-02	mg/kg-day	6.9E-04
				Chromium VI	9E-01	ug/L	5.8E-09	mg/kg-day	N/A	N/A	N/A	6.8E-08	mg/kg-day	7.5E-05	mg/kg-day	9.0E-04
				Manganese	3E+02	ug/L	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	2.8E-03	mg/kg-day	4.6E-03
			Exp. Route Total								3E-07					6E-03
		Exposure Point Total									3E-07					6E-03
		Station 04 (Upper Reach 6)	Dermal	Arsenic	5E+00	ug/L	1.8E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.7E-08	2.1E-07	mg/kg-day	3.0E-04	mg/kg-day	6.9E-04
				Chromium VI	4E+00	ug/L	2.5E-08	mg/kg-day	N/A	N/A	N/A	3.0E-07	mg/kg-day	7.5E-05	mg/kg-day	3.9E-03
				Lead												
				Manganese	3E+02	ug/L	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	2.8E-03	mg/kg-day	4.5E-03
				Mercury	7E-02	ug/L	2.4E-10	mg/kg-day	N/A	N/A	N/A	2.8E-09	mg/kg-day	2.1E-05	mg/kg-day	1.3E-04
			Exp. Route Total								3E-08					9E-03
		Exposure Point Total									3E-08					9E-03
		Station 03 (Upper Reach 6)	Dermal	Arsenic	5E+00	ug/L	1.8E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.7E-08	2.1E-07	mg/kg-day	3.0E-04	mg/kg-day	6.9E-04
				Chromium VI	4E+00	ug/L	2.5E-08	mg/kg-day	N/A	N/A	N/A	3.0E-07	mg/kg-day	7.5E-05	mg/kg-day	3.9E-03
				Lead												
				Manganese	3E+02	ug/L	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	2.8E-03	mg/kg-day	4.5E-03
				Mercury	7E-02	ug/L	2.4E-10	mg/kg-day	N/A	N/A	N/A	2.8E-09	mg/kg-day	2.1E-05	mg/kg-day	1.3E-04
			Exp. Route Total								3E-08					9E-03
		Exposure Point Total									3E-08					9E-03
		Station 02 (Upper Reach 6)	Dermal	Arsenic	5E+00	ug/L	1.8E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.7E-08	2.1E-07	mg/kg-day	3.0E-04	mg/kg-day	6.9E-04
				Chromium VI	4E+00	ug/L	2.5E-08	mg/kg-day	N/A	N/A	N/A	3.0E-07	mg/kg-day	7.5E-05	mg/kg-day	3.9E-03
				Lead												
				Manganese	3E+02	ug/L	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	2.8E-03	mg/kg-day	4.5E-03
				Mercury	7E-02	ug/L	2.4E-10	mg/kg-day	N/A	N/A	N/A	2.8E-09	mg/kg-day	2.1E-05	mg/kg-day	1.3E-04
			Exp. Route Total								3E-08					9E-03
		Exposure Point Total									3E-08					9E-03

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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 (cont.)	Surface Water (cont.)	Station 01 (Lower Reach 6)	Ingestion													
				Arsenic	3E+00	ug/L	9.5E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.4E-07	1.1E-06	mg/kg-day	3.0E-04	mg/kg-day	3.7E-03
				Chromium VI	2E+00	ug/L	4.6E-08	mg/kg-day	N/A	N/A	N/A	5.3E-07	mg/kg-day	3.0E-03	mg/kg-day	1.8E-04
				Lead												
				Manganese	7E+01	ug/L	2.2E-06	mg/kg-day	N/A	N/A	N/A	2.5E-05	mg/kg-day	7.0E-02	mg/kg-day	3.6E-04
				Mercury	4E-02	ug/L	1.2E-09	mg/kg-day	N/A	N/A	N/A	1.4E-08	mg/kg-day	3.0E-04	mg/kg-day	4.7E-05
			Exp. Route Total								1E-07					4E-03
			Dermal													
				Arsenic	3E+00	ug/L	1.2E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.9E-08	1.5E-07	mg/kg-day	3.0E-04	mg/kg-day	4.9E-04
				Chromium VI	2E+00	ug/L	1.2E-08	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	7.5E-05	mg/kg-day	1.9E-03
				Lead												
				Manganese	7E+01	ug/L	2.9E-07	mg/kg-day	N/A	N/A	N/A	3.3E-06	mg/kg-day	2.8E-03	mg/kg-day	1.2E-03
				Mercury	4E-02	ug/L	1.6E-10	mg/kg-day	N/A	N/A	N/A	1.9E-09	mg/kg-day	2.1E-05	mg/kg-day	9.0E-05
			Exp. Route Total								2E-08					4E-03
		Exposure Point Total									2E-07					8E-03
	Exposure Medium Total										N/A					N/A
Sediment	Sediment	Station NR	Ingestion													
				Arsenic	2E+02	mg/kg	1.7E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.3E-05	2.0E-04	mg/kg-day	5.9E-04	mg/kg-day	3.4E-01
				Barium	6E+01	mg/kg	4.6E-06	mg/kg-day	N/A	N/A	N/A	5.3E-05	mg/kg-day	7.0E-02	mg/kg-day	7.6E-04
				Cadmium	2E+00	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
				Chromium III	3E+02	mg/kg	2.0E-05	mg/kg-day	N/A	N/A	N/A	2.4E-04	mg/kg-day	1.5E+00	mg/kg-day	1.6E-04
				Copper	3E+02	mg/kg	2.5E-05	mg/kg-day	N/A	N/A	N/A	2.9E-04	mg/kg-day	3.0E-02	mg/kg-day	9.6E-03
				Lead												
				Manganese	2E+02	mg/kg	2.0E-05	mg/kg-day	N/A	N/A	N/A	2.4E-04	mg/kg-day	7.0E-02	mg/kg-day	3.4E-03
				Mercury	4E+00	mg/kg	3.7E-07	mg/kg-day	N/A	N/A	N/A	4.3E-06	mg/kg-day	1.0E-04	mg/kg-day	4.3E-02
				Nickel	1E+01	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	2.0E-02	mg/kg-day	6.7E-04
				Vanadium	3E+01	mg/kg	2.5E-06	mg/kg-day	N/A	N/A	N/A	2.9E-05	mg/kg-day	1.0E-03	mg/kg-day	2.9E-02
				Zinc	5E+02	mg/kg	4.0E-05	mg/kg-day	N/A	N/A	N/A	4.6E-04	mg/kg-day	3.0E-01	mg/kg-day	1.5E-03
			Exp. Route Total								1E-05					4E-01
			Dermal													
				Arsenic	2E+02	mg/kg	2.9E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.4E-06	3.4E-05	mg/kg-day	3.0E-04	mg/kg-day	1.1E-01
				Cadmium	2E+00	mg/kg	1.0E-08	mg/kg-day	N/A	N/A	N/A	1.2E-07	mg/kg-day	2.5E-05	mg/kg-day	4.7E-03
			Exp. Route Total								4E-06					1E-01
		Exposure Point Total									2E-05					6E-01

TABLE 3-7.4.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station 14	Ingestion													
				Benzo(a)anthracene	1E+00	mg/kg	9.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.5E-08	1.0E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	9E-01	mg/kg	7.2E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	5.3E-07	8.5E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	1.7E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.2E-07	2.0E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	9.0E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	6.5E-09	1.0E-06	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	3E+00	mg/kg	2.1E-07	mg/kg-day	N/A	N/A	N/A	2.5E-06	mg/kg-day	2.0E-02	mg/kg-day	1.2E-04
				Antimony	1E+00	mg/kg	8.1E-08	mg/kg-day	N/A	N/A	N/A	9.4E-07	mg/kg-day	4.0E-04	mg/kg-day	2.4E-03
				Arsenic	7E+01	mg/kg	6.0E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	4.6E-06	7.0E-05	mg/kg-day	5.9E-04	mg/kg-day	1.2E-01
				Barium	2E+01	mg/kg	1.5E-06	mg/kg-day	N/A	N/A	N/A	1.7E-05	mg/kg-day	7.0E-02	mg/kg-day	2.5E-04
				Cadmium	1E+00	mg/kg	8.1E-08	mg/kg-day	N/A	N/A	N/A	9.5E-07	mg/kg-day	1.0E-03	mg/kg-day	9.5E-04
				Chromium III	2E+02	mg/kg	1.8E-05	mg/kg-day	N/A	N/A	N/A	2.1E-04	mg/kg-day	1.5E+00	mg/kg-day	1.4E-04
				Copper	6E+01	mg/kg	5.3E-06	mg/kg-day	N/A	N/A	N/A	6.2E-05	mg/kg-day	3.0E-02	mg/kg-day	2.1E-03
				Lead												
				Manganese	2E+02	mg/kg	1.4E-05	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	1E+00	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
				Nickel	1E+01	mg/kg	8.5E-07	mg/kg-day	N/A	N/A	N/A	9.9E-06	mg/kg-day	2.0E-02	mg/kg-day	4.9E-04
				Thallium	8E-01	mg/kg	6.6E-08	mg/kg-day	N/A	N/A	N/A	7.7E-07	mg/kg-day	8.0E-05	mg/kg-day	9.6E-03
				Vanadium	1E+01	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	1.0E-03	mg/kg-day	1.3E-02
				Zinc	3E+02	mg/kg	2.2E-05	mg/kg-day	N/A	N/A	N/A	2.6E-04	mg/kg-day	3.0E-01	mg/kg-day	8.6E-04
			Exp. Route Total								5E-06					2E-01
			Dermal													
				Benzo(a)anthracene	1E+00	mg/kg	6.5E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.8E-08	7.6E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	9E-01	mg/kg	5.3E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.9E-07	6.2E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	1.2E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.1E-08	1.5E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	6.5E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	4.8E-09	7.6E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	3E+00	mg/kg	1.5E-07	mg/kg-day	N/A	N/A	N/A	1.8E-06	mg/kg-day	2.0E-02	mg/kg-day	9.0E-05
				Arsenic	7E+01	mg/kg	1.0E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.5E-06	1.2E-05	mg/kg-day	3.0E-04	mg/kg-day	3.9E-02
				Cadmium	1E+00	mg/kg	4.6E-09	mg/kg-day	N/A	N/A	N/A	5.3E-08	mg/kg-day	2.5E-05	mg/kg-day	2.1E-03
			Exp. Route Total								2E-06					4E-02
		Exposure Point Total									7E-06					2E-01

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station 22/TT-22	Ingestion													
				Tetrachloroethene	3E+00	mg/kg	3.4E-07	mg/kg-day	5.4E-01	(mg/kg-day) $^{-1}$	1.8E-07	3.9E-06	mg/kg-day	1.0E-02	mg/kg-day	3.9E-04
				Trichloroethene	7E-01	mg/kg	8.5E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	3.4E-08	9.9E-07	mg/kg-day	3.0E-04	mg/kg-day	3.3E-03
				Benzo(a)anthracene	3E-01	mg/kg	3.7E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.7E-08	4.3E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	2.4E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.8E-07	2.8E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	4E-01	mg/kg	5.4E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.9E-08	6.3E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	5E-01	mg/kg	6.6E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	4.8E-09	7.7E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	4E-02	mg/kg	5.4E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.9E-08	6.3E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	2E-01	mg/kg	2.7E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.0E-08	3.1E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	6.0E-08	mg/kg-day	N/A	N/A	N/A	7.0E-07	mg/kg-day	2.0E-02	mg/kg-day	3.5E-05
				Aroclor 1260	3E-02	mg/kg	3.5E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	7.1E-09	4.1E-08	mg/kg-day	2.0E-05	mg/kg-day	2.1E-03
				Antimony	3E+02	mg/kg	4.0E-05	mg/kg-day	N/A	N/A	N/A	4.7E-04	mg/kg-day	4.0E-04	mg/kg-day	1.2E+00
				Arsenic	8E+01	mg/kg	9.4E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	7.3E-06	1.1E-04	mg/kg-day	5.9E-04	mg/kg-day	1.9E-01
				Barium	5E+01	mg/kg	6.0E-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
				Cadmium	1E+00	mg/kg	1.8E-07	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	1.0E-03	mg/kg-day	2.0E-03
				Chromium III	6E+01	mg/kg	7.9E-06	mg/kg-day	N/A	N/A	N/A	9.3E-05	mg/kg-day	1.5E+00	mg/kg-day	6.2E-05
				Copper	3E+01	mg/kg	3.6E-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	1E+02	mg/kg	1.4E-05	mg/kg-day	N/A	N/A	N/A	1.7E-04	mg/kg-day	7.0E-02	mg/kg-day	2.4E-03
				Mercury	5E-01	mg/kg	5.7E-08	mg/kg-day	N/A	N/A	N/A	6.6E-07	mg/kg-day	1.0E-04	mg/kg-day	6.6E-03
				Nickel	1E+01	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
				Vanadium	4E+01	mg/kg	5.0E-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
				Zinc	1E+02	mg/kg	1.2E-05	mg/kg-day	N/A	N/A	N/A	1.4E-04	mg/kg-day	3.0E-01	mg/kg-day	4.5E-04
			Exp. Route Total								8E-06					1E+00
			Dermal													
				Benzo(a)anthracene	3E-01	mg/kg	2.7E-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
				Benzo(a)pyrene	2E-01	mg/kg	1.8E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.3E-07	2.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	4E-01	mg/kg	3.9E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.9E-08	4.6E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	5E-01	mg/kg	4.8E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	3.5E-09	5.6E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	4E-02	mg/kg	3.9E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.9E-08	4.6E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	2E-01	mg/kg	2.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.4E-08	2.3E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	4.4E-08	mg/kg-day	N/A	N/A	N/A	5.1E-07	mg/kg-day	2.0E-02	mg/kg-day	2.5E-05
				Aroclor 1260	3E-02	mg/kg	2.8E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	5.6E-09	3.2E-08	mg/kg-day	2.0E-05	mg/kg-day	1.6E-03
				Arsenic	8E+01	mg/kg	1.6E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.4E-06	1.8E-05	mg/kg-day	3.0E-04	mg/kg-day	6.2E-02
				Cadmium	1E+00	mg/kg	9.8E-09	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	2.5E-05	mg/kg-day	4.6E-03
			Exp. Route Total								3E-06					7E-02
		Exposure Point Total									1E-05					2E+00

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station 13/TT-27	Ingestion													
				Trichloroethene	4E-02	mg/kg	4.5E-09	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.8E-09	5.3E-08	mg/kg-day	3.0E-04	mg/kg-day	1.8E-04
				Benzo(a)anthracene	1E+00	mg/kg	1.6E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.1E-07	1.8E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	1.6E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.2E-06	1.9E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E+00	mg/kg	3.1E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.3E-07	3.7E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E+00	mg/kg	2.8E-07	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	2.0E-08	3.2E-06	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	3.8E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.8E-07	4.5E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	9E-01	mg/kg	1.1E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	7.8E-08	1.3E-06	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E+00	mg/kg	2.1E-07	mg/kg-day	N/A	N/A	N/A	2.4E-06	mg/kg-day	2.0E-02	mg/kg-day	1.2E-04
				Aroclor 1254	5E-02	mg/kg	5.5E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.1E-08	6.4E-08	mg/kg-day	2.0E-05	mg/kg-day	3.2E-03
				Aroclor 1260	3E-01	mg/kg	3.8E-08	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	7.6E-08	4.4E-07	mg/kg-day	2.0E-05	mg/kg-day	2.2E-02
				Antimony	6E+01	mg/kg	7.4E-06	mg/kg-day	N/A	N/A	N/A	8.7E-05	mg/kg-day	4.0E-04	mg/kg-day	2.2E-01
				Arsenic	4E+03	mg/kg	4.4E-04	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.4E-04	5.2E-03	mg/kg-day	5.9E-04	mg/kg-day	8.8E+00
				Barium	2E+02	mg/kg	2.9E-05	mg/kg-day	N/A	N/A	N/A	3.4E-04	mg/kg-day	7.0E-02	mg/kg-day	4.9E-03
				Cadmium	9E+00	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	1.0E-03	mg/kg-day	1.3E-02
				Chromium III	6E+02	mg/kg	6.9E-05	mg/kg-day	N/A	N/A	N/A	8.0E-04	mg/kg-day	1.5E+00	mg/kg-day	5.3E-04
				Copper	2E+03	mg/kg	2.0E-04	mg/kg-day	N/A	N/A	N/A	2.3E-03	mg/kg-day	3.0E-02	mg/kg-day	7.8E-02
				Lead												
				Manganese	8E+02	mg/kg	9.3E-05	mg/kg-day	N/A	N/A	N/A	1.1E-03	mg/kg-day	7.0E-02	mg/kg-day	1.5E-02
				Mercury	2E+01	mg/kg	2.4E-06	mg/kg-day	N/A	N/A	N/A	2.8E-05	mg/kg-day	1.0E-04	mg/kg-day	2.8E-01
				Nickel	3E+01	mg/kg	3.9E-06	mg/kg-day	N/A	N/A	N/A	4.6E-05	mg/kg-day	2.0E-02	mg/kg-day	2.3E-03
				Thallium	4E+00	mg/kg	4.5E-07	mg/kg-day	N/A	N/A	N/A	5.3E-06	mg/kg-day	8.0E-05	mg/kg-day	6.6E-02
				Vanadium	9E+01	mg/kg	1.1E-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
				Zinc	2E+03	mg/kg	2.7E-04	mg/kg-day	N/A	N/A	N/A	3.2E-03	mg/kg-day	3.0E-01	mg/kg-day	1.1E-02
			Exp. Route Total								3E-04					1E+01
			Dermal													
				Benzo(a)anthracene	1E+00	mg/kg	1.1E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	8.3E-08	1.3E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	1.2E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	8.8E-07	1.4E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E+00	mg/kg	2.3E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.7E-07	2.7E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E+00	mg/kg	2.0E-07	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.5E-08	2.3E-06	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	2.8E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.0E-07	3.3E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	9E-01	mg/kg	7.8E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.7E-08	9.1E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E+00	mg/kg	1.5E-07	mg/kg-day	N/A	N/A	N/A	1.8E-06	mg/kg-day	2.0E-02	mg/kg-day	8.8E-05
				Aroclor 1254	5E-02	mg/kg	4.3E-09	mg/kg-day	N/A	(mg/kg-day) $^{-1}$	N/A	5.0E-08	mg/kg-day	2.0E-05	mg/kg-day	2.5E-03
				Aroclor 1260	3E-01	mg/kg	3.0E-08	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	5.9E-08	3.5E-07	mg/kg-day	2.0E-05	mg/kg-day	1.7E-02
				Arsenic	4E+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	9E+00	mg/kg	6.4E-08	mg/kg-day	N/A	N/A	N/A	7.5E-07	mg/kg-day	2.5E-05	mg/kg-day	3.0E-02
			Exp. Route Total								1E-04					3E+00
		Exposure Point Total									5E-04					1E+01

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station WH	Ingestion													
				Trichloroethene	5E-02	mg/kg	6.5E-09	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	2.6E-09	7.6E-08	mg/kg-day	3.0E-04	mg/kg-day	2.5E-04
				Benzo(a)anthracene	6E-01	mg/kg	6.8E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.0E-08	8.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	1.2E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	8.9E-07	1.4E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	1.8E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.3E-07	2.1E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	7E-01	mg/kg	8.8E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	6.4E-09	1.0E-06	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	3.9E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.9E-07	4.6E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	7E-01	mg/kg	9.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.6E-08	1.1E-06	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	6E-01	mg/kg	7.0E-08	mg/kg-day	N/A	N/A	N/A	8.1E-07	mg/kg-day	2.0E-02	mg/kg-day	4.1E-05
				Aroclor 1260	6E-02	mg/kg	7.1E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.4E-08	8.3E-08	mg/kg-day	2.0E-05	mg/kg-day	4.1E-03
				Antimony	3E+01	mg/kg	4.3E-06	mg/kg-day	N/A	N/A	N/A	5.0E-05	mg/kg-day	4.0E-04	mg/kg-day	1.2E-01
				Arsenic	2E+03	mg/kg	2.3E-04	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.8E-04	2.7E-03	mg/kg-day	5.9E-04	mg/kg-day	4.6E+00
				Barium	9E+01	mg/kg	1.1E-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
				Cadmium	1E+01	mg/kg	1.3E-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
				Chromium III	1E+03	mg/kg	1.4E-04	mg/kg-day	N/A	N/A	N/A	1.7E-03	mg/kg-day	1.5E+00	mg/kg-day	1.1E-03
				Copper	1E+03	mg/kg	1.5E-04	mg/kg-day	N/A	N/A	N/A	1.7E-03	mg/kg-day	3.0E-02	mg/kg-day	5.7E-02
				Lead												
				Manganese	5E+02	mg/kg	6.2E-05	mg/kg-day	N/A	N/A	N/A	7.3E-04	mg/kg-day	7.0E-02	mg/kg-day	1.0E-02
				Mercury	3E+01	mg/kg	3.3E-06	mg/kg-day	N/A	N/A	N/A	3.9E-05	mg/kg-day	1.0E-04	mg/kg-day	3.9E-01
				Nickel	4E+01	mg/kg	5.0E-06	mg/kg-day	N/A	N/A	N/A	5.8E-05	mg/kg-day	2.0E-02	mg/kg-day	2.9E-03
				Thallium	8E-01	mg/kg	9.4E-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	1E+02	mg/kg	1.2E-05	mg/kg-day	N/A	N/A	N/A	1.4E-04	mg/kg-day	1.0E-03	mg/kg-day	1.4E-01
				Zinc	2E+03	mg/kg	2.8E-04	mg/kg-day	N/A	N/A	N/A	3.3E-03	mg/kg-day	3.0E-01	mg/kg-day	1.1E-02
				Chromium VI	2E+00	mg/kg	1.9E-07	mg/kg-day	N/A	N/A	N/A	2.2E-06	mg/kg-day	3.0E-03	mg/kg-day	7.3E-04
			Exp. Route Total								2E-04					5E+00
			Dermal													
				Benzo(a)anthracene	6E-01	mg/kg	5.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.6E-08	5.8E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	8.9E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	6.5E-07	1.0E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	1.3E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.7E-08	1.6E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	7E-01	mg/kg	6.4E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	4.7E-09	7.5E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	2.8E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.1E-07	3.3E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	7E-01	mg/kg	6.6E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.8E-08	7.7E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	6E-01	mg/kg	5.1E-08	mg/kg-day	N/A	N/A	N/A	5.9E-07	mg/kg-day	2.0E-02	mg/kg-day	3.0E-05
				Aroclor 1260	6E-02	mg/kg	5.6E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.1E-08	6.5E-08	mg/kg-day	2.0E-05	mg/kg-day	3.2E-03
				Arsenic	2E+03	mg/kg	3.9E-05	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.9E-05	4.6E-04	mg/kg-day	3.0E-04	mg/kg-day	1.5E+00
				Cadmium	1E+01	mg/kg	7.4E-08	mg/kg-day	N/A	N/A	N/A	8.6E-07	mg/kg-day	2.5E-05	mg/kg-day	3.4E-02
			Exp. Route Total								6E-05					2E+00
		Exposure Point Total									2E-04					7E+00

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station NT-1	Ingestion													
				Trichloroethene	5E-02	mg/kg	6.5E-09	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	2.6E-09	7.6E-08	mg/kg-day	3.0E-04	mg/kg-day	2.5E-04
				Benzo(a)anthracene	5E-01	mg/kg	6.2E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.5E-08	7.2E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	9E-01	mg/kg	1.1E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	7.8E-07	1.3E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	1.8E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.3E-07	2.0E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	9E-01	mg/kg	1.1E-07	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	8.1E-09	1.3E-06	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	3.9E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.9E-07	4.6E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	7E-01	mg/kg	9.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.6E-08	1.1E-06	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	6E-01	mg/kg	7.0E-08	mg/kg-day	N/A	N/A	N/A	8.1E-07	mg/kg-day	2.0E-02	mg/kg-day	4.1E-05
				Aroclor 1260	6E-02	mg/kg	7.1E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.4E-08	8.3E-08	mg/kg-day	2.0E-05	mg/kg-day	4.1E-03
				Antimony	1E+01	mg/kg	1.8E-06	mg/kg-day	N/A	N/A	N/A	2.1E-05	mg/kg-day	4.0E-04	mg/kg-day	5.1E-02
				Arsenic	2E+03	mg/kg	3.0E-04	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.3E-04	3.5E-03	mg/kg-day	5.9E-04	mg/kg-day	6.0E+00
				Barium	1E+02	mg/kg	1.3E-05	mg/kg-day	N/A	N/A	N/A	1.5E-04	mg/kg-day	7.0E-02	mg/kg-day	2.2E-03
				Cadmium	9E+00	mg/kg	1.0E-06	mg/kg-day	N/A	N/A	N/A	1.2E-05	mg/kg-day	1.0E-03	mg/kg-day	1.2E-02
				Chromium III	2E+03	mg/kg	1.9E-04	mg/kg-day	N/A	N/A	N/A	2.2E-03	mg/kg-day	1.5E+00	mg/kg-day	1.5E-03
				Copper	8E+02	mg/kg	1.0E-04	mg/kg-day	N/A	N/A	N/A	1.2E-03	mg/kg-day	3.0E-02	mg/kg-day	4.0E-02
				Lead												
				Manganese	1E+03	mg/kg	1.3E-04	mg/kg-day	N/A	N/A	N/A	1.5E-03	mg/kg-day	7.0E-02	mg/kg-day	2.2E-02
				Mercury	5E+00	mg/kg	6.0E-07	mg/kg-day	N/A	N/A	N/A	7.0E-06	mg/kg-day	1.0E-04	mg/kg-day	7.0E-02
				Nickel	4E+01	mg/kg	5.0E-06	mg/kg-day	N/A	N/A	N/A	5.8E-05	mg/kg-day	2.0E-02	mg/kg-day	2.9E-03
				Thallium	1E+01	mg/kg	1.4E-06	mg/kg-day	N/A	N/A	N/A	1.6E-05	mg/kg-day	8.0E-05	mg/kg-day	2.0E-01
				Vanadium	7E+01	mg/kg	8.5E-06	mg/kg-day	N/A	N/A	N/A	9.9E-05	mg/kg-day	1.0E-03	mg/kg-day	9.9E-02
				Zinc	2E+03	mg/kg	2.0E-04	mg/kg-day	N/A	N/A	N/A	2.4E-03	mg/kg-day	3.0E-01	mg/kg-day	7.9E-03
				Chromium VI	2E+00	mg/kg	2.4E-07	mg/kg-day	N/A	N/A	N/A	2.8E-06	mg/kg-day	3.0E-03	mg/kg-day	9.5E-04
			Exp. Route Total								2E-04					6E+00
			Dermal													
				Benzo(a)anthracene	5E-01	mg/kg	4.5E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.3E-08	5.3E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	9E-01	mg/kg	7.8E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	5.7E-07	9.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	1.3E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.3E-08	1.5E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	9E-01	mg/kg	8.1E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	5.9E-09	9.4E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	2.8E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.1E-07	3.3E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	7E-01	mg/kg	6.6E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.8E-08	7.7E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	6E-01	mg/kg	5.1E-08	mg/kg-day	N/A	N/A	N/A	5.9E-07	mg/kg-day	2.0E-02	mg/kg-day	3.0E-05
				Aroclor 1260	6E-02	mg/kg	5.6E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.1E-08	6.5E-08	mg/kg-day	2.0E-05	mg/kg-day	3.2E-03
				Arsenic	2E+03	mg/kg	5.1E-05	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	7.8E-05	5.9E-04	mg/kg-day	3.0E-04	mg/kg-day	2.0E+00
				Cadmium	9E+00	mg/kg	5.8E-08	mg/kg-day	N/A	N/A	N/A	6.8E-07	mg/kg-day	2.5E-05	mg/kg-day	2.7E-02
			Exp. Route Total								8E-05					2E+00
		Exposure Point Total									3E-04					9E+00

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station NT-2	Ingestion													
				Trichloroethene	5E-02	mg/kg	6.5E-09	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	2.6E-09	7.6E-08	mg/kg-day	3.0E-04	mg/kg-day	2.5E-04
				Benzo(a)anthracene	4E-01	mg/kg	5.2E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.8E-08	6.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	1.2E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	8.9E-07	1.4E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	1.4E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.0E-07	1.6E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	7E-01	mg/kg	9.0E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	6.6E-09	1.0E-06	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	3.9E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.9E-07	4.6E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	7E-01	mg/kg	9.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.6E-08	1.1E-06	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	6.6E-08	mg/kg-day	N/A	N/A	N/A	7.7E-07	mg/kg-day	2.0E-02	mg/kg-day	3.9E-05
				Aroclor 1260	6E-02	mg/kg	7.1E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.4E-08	8.3E-08	mg/kg-day	2.0E-05	mg/kg-day	4.1E-03
				Antimony	2E+01	mg/kg	1.9E-06	mg/kg-day	N/A	N/A	N/A	2.2E-05	mg/kg-day	4.0E-04	mg/kg-day	5.4E-02
				Arsenic	2E+03	mg/kg	2.2E-04	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.7E-04	2.5E-03	mg/kg-day	5.9E-04	mg/kg-day	4.3E+00
				Barium	9E+01	mg/kg	1.1E-05	mg/kg-day	N/A	N/A	N/A	1.2E-04	mg/kg-day	7.0E-02	mg/kg-day	1.8E-03
				Cadmium	6E+00	mg/kg	7.7E-07	mg/kg-day	N/A	N/A	N/A	8.9E-06	mg/kg-day	1.0E-03	mg/kg-day	8.9E-03
				Chromium III	9E+02	mg/kg	1.1E-04	mg/kg-day	N/A	N/A	N/A	1.3E-03	mg/kg-day	1.5E+00	mg/kg-day	8.8E-04
				Copper	8E+02	mg/kg	9.2E-05	mg/kg-day	N/A	N/A	N/A	1.1E-03	mg/kg-day	3.0E-02	mg/kg-day	3.6E-02
				Lead												
				Manganese	9E+02	mg/kg	1.1E-04	mg/kg-day	N/A	N/A	N/A	1.3E-03	mg/kg-day	7.0E-02	mg/kg-day	1.8E-02
				Mercury	5E+00	mg/kg	6.5E-07	mg/kg-day	N/A	N/A	N/A	7.5E-06	mg/kg-day	1.0E-04	mg/kg-day	7.5E-02
				Nickel	3E+01	mg/kg	4.1E-06	mg/kg-day	N/A	N/A	N/A	4.7E-05	mg/kg-day	2.0E-02	mg/kg-day	2.4E-03
				Thallium	6E-01	mg/kg	6.7E-08	mg/kg-day	N/A	N/A	N/A	7.8E-07	mg/kg-day	8.0E-05	mg/kg-day	9.8E-03
				Vanadium	7E+01	mg/kg	8.1E-06	mg/kg-day	N/A	N/A	N/A	9.4E-05	mg/kg-day	1.0E-03	mg/kg-day	9.4E-02
				Zinc	1E+03	mg/kg	1.6E-04	mg/kg-day	N/A	N/A	N/A	1.8E-03	mg/kg-day	3.0E-01	mg/kg-day	6.0E-03
			Exp. Route Total								2E-04					5E+00
			Dermal													
				Benzo(a)anthracene	4E-01	mg/kg	3.8E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.8E-08	4.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	8.9E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	6.5E-07	1.0E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	1.0E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	7.5E-08	1.2E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	7E-01	mg/kg	6.5E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	4.8E-09	7.6E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	2.8E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.1E-07	3.3E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	7E-01	mg/kg	6.6E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.8E-08	7.7E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	4.8E-08	mg/kg-day	N/A	N/A	N/A	5.6E-07	mg/kg-day	2.0E-02	mg/kg-day	2.8E-05
				Aroclor 1260	6E-02	mg/kg	5.6E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.1E-08	6.5E-08	mg/kg-day	2.0E-05	mg/kg-day	3.2E-03
				Arsenic	2E+03	mg/kg	3.6E-05	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.4E-05	4.2E-04	mg/kg-day	3.0E-04	mg/kg-day	1.4E+00
				Cadmium	6E+00	mg/kg	4.3E-08	mg/kg-day	N/A	N/A	N/A	5.0E-07	mg/kg-day	2.5E-05	mg/kg-day	2.0E-02
			Exp. Route Total								6E-05					1E+00
		Exposure Point Total									2E-04					6E+00

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station NT-3	Ingestion													
				Trichloroethene	5E-02	mg/kg	6.5E-09	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	2.6E-09	7.6E-08	mg/kg-day	3.0E-04	mg/kg-day	2.5E-04
				Benzo(a)anthracene	6E-01	mg/kg	6.8E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.0E-08	8.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	1.2E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	8.9E-07	1.4E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	1.8E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.3E-07	2.1E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	7E-01	mg/kg	8.8E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	6.4E-09	1.0E-06	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	3.9E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.9E-07	4.6E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	7E-01	mg/kg	9.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.6E-08	1.1E-06	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	6E-01	mg/kg	7.0E-08	mg/kg-day	N/A	N/A	N/A	8.1E-07	mg/kg-day	2.0E-02	mg/kg-day	4.1E-05
				Aroclor 1260	6E-02	mg/kg	7.1E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.4E-08	8.3E-08	mg/kg-day	2.0E-05	mg/kg-day	4.1E-03
				Antimony	2E+01	mg/kg	1.8E-06	mg/kg-day	N/A	N/A	N/A	2.2E-05	mg/kg-day	4.0E-04	mg/kg-day	5.4E-02
				Arsenic	5E+02	mg/kg	6.1E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	4.7E-05	7.1E-04	mg/kg-day	5.9E-04	mg/kg-day	1.2E+00
				Barium	9E+01	mg/kg	1.1E-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
				Cadmium	7E+00	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
				Chromium III	1E+03	mg/kg	1.3E-04	mg/kg-day	N/A	N/A	N/A	1.5E-03	mg/kg-day	1.5E+00	mg/kg-day	9.9E-04
				Copper	8E+02	mg/kg	1.0E-04	mg/kg-day	N/A	N/A	N/A	1.2E-03	mg/kg-day	3.0E-02	mg/kg-day	4.0E-02
				Lead												
				Manganese	1E+03	mg/kg	1.2E-04	mg/kg-day	N/A	N/A	N/A	1.4E-03	mg/kg-day	7.0E-02	mg/kg-day	2.0E-02
				Mercury	5E+00	mg/kg	6.2E-07	mg/kg-day	N/A	N/A	N/A	7.2E-06	mg/kg-day	1.0E-04	mg/kg-day	7.2E-02
				Nickel	4E+01	mg/kg	4.4E-06	mg/kg-day	N/A	N/A	N/A	5.2E-05	mg/kg-day	2.0E-02	mg/kg-day	2.6E-03
				Thallium	6E-01	mg/kg	6.9E-08	mg/kg-day	N/A	N/A	N/A	8.1E-07	mg/kg-day	8.0E-05	mg/kg-day	1.0E-02
				Vanadium	7E+01	mg/kg	8.3E-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	1E+03	mg/kg	1.5E-04	mg/kg-day	N/A	N/A	N/A	1.7E-03	mg/kg-day	3.0E-01	mg/kg-day	5.7E-03
			Exp. Route Total								5E-05					2E+00
			Dermal													
				Benzo(a)anthracene	6E-01	mg/kg	5.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.6E-08	5.8E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	8.9E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	6.5E-07	1.0E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	1.3E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.7E-08	1.6E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	7E-01	mg/kg	6.4E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	4.7E-09	7.5E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	2.8E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.1E-07	3.3E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	7E-01	mg/kg	6.6E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.8E-08	7.7E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	6E-01	mg/kg	5.1E-08	mg/kg-day	N/A	N/A	N/A	5.9E-07	mg/kg-day	2.0E-02	mg/kg-day	3.0E-05
				Aroclor 1260	6E-02	mg/kg	5.6E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.1E-08	6.5E-08	mg/kg-day	2.0E-05	mg/kg-day	3.2E-03
				Arsenic	5E+02	mg/kg	1.0E-05	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.5E-05	1.2E-04	mg/kg-day	3.0E-04	mg/kg-day	4.0E-01
				Cadmium	7E+00	mg/kg	4.6E-08	mg/kg-day	N/A	N/A	N/A	5.4E-07	mg/kg-day	2.5E-05	mg/kg-day	2.1E-02
			Exp. Route Total								2E-05					4E-01
		Exposure Point Total									6E-05					2E+00

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station WG	Ingestion													
				Trichloroethene	4E-02	mg/kg	5.1E-09	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	2.1E-09	6.0E-08	mg/kg-day	3.0E-04	mg/kg-day	2.0E-04
				Benzo(a)anthracene	1E-01	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	2E-01	mg/kg	2.0E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.4E-07	2.3E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E-01	mg/kg	3.5E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.6E-08	4.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E-01	mg/kg	2.4E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.8E-09	2.8E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	5E-02	mg/kg	5.6E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.1E-08	6.6E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	1.7E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.2E-08	2.0E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E-01	mg/kg	2.0E-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
				Aroclor 1260	1E-02	mg/kg	1.3E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	2.7E-09	1.6E-08	mg/kg-day	2.0E-05	mg/kg-day	7.8E-04
				Antimony	9E+00	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	4.0E-04	mg/kg-day	3.3E-02
				Arsenic	3E+02	mg/kg	3.2E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.5E-05	3.7E-04	mg/kg-day	5.9E-04	mg/kg-day	6.3E-01
				Barium	9E+01	mg/kg	1.1E-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
				Cadmium	6E+00	mg/kg	7.8E-07	mg/kg-day	N/A	N/A	N/A	9.1E-06	mg/kg-day	1.0E-03	mg/kg-day	9.1E-03
				Chromium III	9E+02	mg/kg	1.1E-04	mg/kg-day	N/A	N/A	N/A	1.3E-03	mg/kg-day	1.5E+00	mg/kg-day	8.8E-04
				Copper	6E+02	mg/kg	7.7E-05	mg/kg-day	N/A	N/A	N/A	8.9E-04	mg/kg-day	3.0E-02	mg/kg-day	3.0E-02
				Lead												
				Manganese	1E+03	mg/kg	1.2E-04	mg/kg-day	N/A	N/A	N/A	1.4E-03	mg/kg-day	7.0E-02	mg/kg-day	2.1E-02
				Mercury	3E+00	mg/kg	3.6E-07	mg/kg-day	N/A	N/A	N/A	4.2E-06	mg/kg-day	1.0E-04	mg/kg-day	4.2E-02
				Nickel	3E+01	mg/kg	4.2E-06	mg/kg-day	N/A	N/A	N/A	4.9E-05	mg/kg-day	2.0E-02	mg/kg-day	2.5E-03
				Thallium	4E-01	mg/kg	5.4E-08	mg/kg-day	N/A	N/A	N/A	6.2E-07	mg/kg-day	8.0E-05	mg/kg-day	7.8E-03
				Vanadium	7E+01	mg/kg	7.9E-06	mg/kg-day	N/A	N/A	N/A	9.3E-05	mg/kg-day	1.0E-03	mg/kg-day	9.3E-02
				Zinc	1E+03	mg/kg	1.3E-04	mg/kg-day	N/A	N/A	N/A	1.5E-03	mg/kg-day	3.0E-01	mg/kg-day	5.2E-03
			Exp. Route Total								2E-05					9E-01
			Dermal													
				Benzo(a)anthracene	1E-01	mg/kg	1.2E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	8.4E-09	1.3E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	1.4E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.0E-07	1.7E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E-01	mg/kg	2.6E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.9E-08	3.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E-01	mg/kg	1.8E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.3E-09	2.1E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	5E-02	mg/kg	4.1E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.0E-08	4.8E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	1.2E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.1E-09	1.5E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E-01	mg/kg	1.4E-08	mg/kg-day	N/A	N/A	N/A	1.7E-07	mg/kg-day	2.0E-02	mg/kg-day	8.3E-06
				Aroclor 1260	1E-02	mg/kg	1.1E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	2.1E-09	1.2E-08	mg/kg-day	2.0E-05	mg/kg-day	6.1E-04
				Arsenic	3E+02	mg/kg	5.4E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	8.1E-06	6.3E-05	mg/kg-day	3.0E-04	mg/kg-day	2.1E-01
				Cadmium	6E+00	mg/kg	4.4E-08	mg/kg-day	N/A	N/A	N/A	5.1E-07	mg/kg-day	2.5E-05	mg/kg-day	2.0E-02
			Exp. Route Total								8E-06					2E-01
		Exposure Point Total									3E-05					1E+00

TABLE 3-7.4.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station WW	Ingestion													
				Benzo(b)fluoranthene	3E-01	mg/kg	4.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.9E-08	4.7E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	6E-01	mg/kg	7.4E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	5.4E-09	8.7E-07	mg/kg-day	N/A	N/A	N/A
				Antimony	6E+01	mg/kg	7.0E-06	mg/kg-day	N/A	N/A	N/A	8.2E-05	mg/kg-day	4.0E-04	mg/kg-day	2.0E-01
				Arsenic	5E+01	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
				Barium	1E+03	mg/kg	1.8E-04	mg/kg-day	N/A	N/A	N/A	2.1E-03	mg/kg-day	7.0E-02	mg/kg-day	3.0E-02
				Cadmium	1E+01	mg/kg	1.2E-06	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	1.0E-03	mg/kg-day	1.4E-02
				Chromium III	2E+04	mg/kg	1.9E-03	mg/kg-day	N/A	N/A	N/A	2.2E-02	mg/kg-day	1.5E+00	mg/kg-day	1.5E-02
				Copper	4E+02	mg/kg	5.1E-05	mg/kg-day	N/A	N/A	N/A	5.9E-04	mg/kg-day	3.0E-02	mg/kg-day	2.0E-02
				Lead												
				Manganese	4E+02	mg/kg	5.2E-05	mg/kg-day	N/A	N/A	N/A	6.1E-04	mg/kg-day	7.0E-02	mg/kg-day	8.6E-03
				Mercury	1E+00	mg/kg	1.5E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	1.0E-04	mg/kg-day	1.7E-02
				Nickel	3E+01	mg/kg	3.1E-06	mg/kg-day	N/A	N/A	N/A	3.6E-05	mg/kg-day	2.0E-02	mg/kg-day	1.8E-03
				Thallium	2E+00	mg/kg	1.9E-07	mg/kg-day	N/A	N/A	N/A	2.2E-06	mg/kg-day	8.0E-05	mg/kg-day	2.7E-02
				Vanadium	8E+01	mg/kg	9.3E-06	mg/kg-day	N/A	N/A	N/A	1.1E-04	mg/kg-day	1.0E-03	mg/kg-day	1.1E-01
				Zinc	1E+03	mg/kg	1.6E-04	mg/kg-day	N/A	N/A	N/A	1.9E-03	mg/kg-day	3.0E-01	mg/kg-day	6.4E-03
				Chromium VI	2E+01	mg/kg	2.5E-06	mg/kg-day	N/A	N/A	N/A	2.9E-05	mg/kg-day	3.0E-03	mg/kg-day	9.6E-03
			Exp. Route Total								5E-06					6E-01
			Dermal													
				Benzo(b)fluoranthene	3E-01	mg/kg	2.9E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.1E-08	3.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	6E-01	mg/kg	5.4E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	4.0E-09	6.3E-07	mg/kg-day	N/A	N/A	N/A
				Arsenic	5E+01	mg/kg	1.1E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.7E-06	1.3E-05	mg/kg-day	3.0E-04	mg/kg-day	4.4E-02
				Cadmium	1E+01	mg/kg	6.5E-08	mg/kg-day	N/A	N/A	N/A	7.6E-07	mg/kg-day	2.5E-05	mg/kg-day	3.0E-02
			Exp. Route Total								2E-06					7E-02
		Exposure Point Total									7E-06					7E-01

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station JY	Ingestion													
				Aroclor 1254	1E+00	mg/kg	1.7E-07	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	3.3E-07	1.9E-06	mg/kg-day	2.0E-05	mg/kg-day	9.7E-02
				Aroclor 1260	1E+00	mg/kg	1.8E-07	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	3.6E-07	2.1E-06	mg/kg-day	2.0E-05	mg/kg-day	1.0E-01
				Antimony	2E+01	mg/kg	2.4E-06	mg/kg-day	N/A	N/A	N/A	2.8E-05	mg/kg-day	4.0E-04	mg/kg-day	6.9E-02
				Arsenic	3E+02	mg/kg	3.4E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.7E-05	4.0E-04	mg/kg-day	5.9E-04	mg/kg-day	6.8E-01
				Barium	2E+02	mg/kg	2.2E-05	mg/kg-day	N/A	N/A	N/A	2.6E-04	mg/kg-day	7.0E-02	mg/kg-day	3.7E-03
				Cadmium	1E+01	mg/kg	1.8E-06	mg/kg-day	N/A	N/A	N/A	2.1E-05	mg/kg-day	1.0E-03	mg/kg-day	2.1E-02
				Chromium III	1E+03	mg/kg	1.4E-04	mg/kg-day	N/A	N/A	N/A	1.7E-03	mg/kg-day	1.5E+00	mg/kg-day	1.1E-03
				Copper	5E+02	mg/kg	6.1E-05	mg/kg-day	N/A	N/A	N/A	7.2E-04	mg/kg-day	3.0E-02	mg/kg-day	2.4E-02
				Lead												
				Manganese	4E+02	mg/kg	4.5E-05	mg/kg-day	N/A	N/A	N/A	5.2E-04	mg/kg-day	7.0E-02	mg/kg-day	7.4E-03
				Mercury	2E+00	mg/kg	2.2E-07	mg/kg-day	N/A	N/A	N/A	2.6E-06	mg/kg-day	1.0E-04	mg/kg-day	2.6E-02
				Nickel	8E+01	mg/kg	9.2E-06	mg/kg-day	N/A	N/A	N/A	1.1E-04	mg/kg-day	2.0E-02	mg/kg-day	5.4E-03
				Thallium	4E+00	mg/kg	4.9E-07	mg/kg-day	N/A	N/A	N/A	5.8E-06	mg/kg-day	8.0E-05	mg/kg-day	7.2E-02
				Vanadium	6E+01	mg/kg	7.8E-06	mg/kg-day	N/A	N/A	N/A	9.2E-05	mg/kg-day	1.0E-03	mg/kg-day	9.2E-02
				Zinc	2E+03	mg/kg	2.9E-04	mg/kg-day	N/A	N/A	N/A	3.3E-03	mg/kg-day	3.0E-01	mg/kg-day	1.1E-02
				Chromium VI	2E+00	mg/kg	1.9E-07	mg/kg-day	N/A	N/A	N/A	2.2E-06	mg/kg-day	3.0E-03	mg/kg-day	7.2E-04
			Exp. Route Total								3E-05					1E+00
			Dermal													
				Aroclor 1254	1E+00	mg/kg	1.3E-07	mg/kg-day	N/A	(mg/kg-day) $^{-1}$	N/A	1.5E-06	mg/kg-day	2.0E-05	mg/kg-day	7.6E-02
				Aroclor 1260	1E+00	mg/kg	1.4E-07	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	2.8E-07	1.6E-06	mg/kg-day	2.0E-05	mg/kg-day	8.2E-02
				Arsenic	3E+02	mg/kg	5.8E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	8.7E-06	6.8E-05	mg/kg-day	3.0E-04	mg/kg-day	2.3E-01
				Cadmium	1E+01	mg/kg	9.9E-08	mg/kg-day	N/A	N/A	N/A	1.2E-06	mg/kg-day	2.5E-05	mg/kg-day	4.6E-02
			Exp. Route Total								9E-06					4E-01
		Exposure Point Total									4E-05					2E+00

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station WS/WSS	Ingestion													
				Antimony	5E+00	mg/kg	8.0E-07	mg/kg-day	N/A	N/A	N/A	9.4E-06	mg/kg-day	4.0E-04	mg/kg-day	2.3E-02
				Arsenic	2E+02	mg/kg	3.7E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.8E-05	4.3E-04	mg/kg-day	5.9E-04	mg/kg-day	7.3E-01
				Barium	1E+02	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
				Cadmium	1E+01	mg/kg	1.7E-06	mg/kg-day	N/A	N/A	N/A	2.0E-05	mg/kg-day	1.0E-03	mg/kg-day	2.0E-02
				Chromium III	7E+02	mg/kg	1.2E-04	mg/kg-day	N/A	N/A	N/A	1.4E-03	mg/kg-day	1.5E+00	mg/kg-day	9.2E-04
				Copper	4E+02	mg/kg	6.7E-05	mg/kg-day	N/A	N/A	N/A	7.9E-04	mg/kg-day	3.0E-02	mg/kg-day	2.6E-02
				Lead												
				Manganese	1E+03	mg/kg	2.0E-04	mg/kg-day	N/A	N/A	N/A	2.3E-03	mg/kg-day	7.0E-02	mg/kg-day	3.3E-02
				Mercury	1E+00	mg/kg	2.2E-07	mg/kg-day	N/A	N/A	N/A	2.6E-06	mg/kg-day	1.0E-04	mg/kg-day	2.6E-02
				Nickel	4E+01	mg/kg	5.9E-06	mg/kg-day	N/A	N/A	N/A	6.9E-05	mg/kg-day	2.0E-02	mg/kg-day	3.4E-03
				Thallium	1E+00	mg/kg	1.8E-07	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	8.0E-05	mg/kg-day	2.6E-02
				Vanadium	4E+01	mg/kg	7.3E-06	mg/kg-day	N/A	N/A	N/A	8.5E-05	mg/kg-day	1.0E-03	mg/kg-day	8.5E-02
				Zinc	2E+03	mg/kg	3.3E-04	mg/kg-day	N/A	N/A	N/A	3.9E-03	mg/kg-day	3.0E-01	mg/kg-day	1.3E-02
				Chromium VI	9E-01	mg/kg	1.5E-07	mg/kg-day	N/A	N/A	N/A	1.8E-06	mg/kg-day	3.0E-03	mg/kg-day	6.0E-04
			Exp. Route Total								3E-05					1E+00
			Dermal													
				Arsenic	2E+02	mg/kg	6.2E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	9.3E-06	7.2E-05	mg/kg-day	3.0E-04	mg/kg-day	2.4E-01
				Cadmium	1E+01	mg/kg	9.8E-08	mg/kg-day	N/A	N/A	N/A	1.1E-06	mg/kg-day	2.5E-05	mg/kg-day	4.6E-02
			Exp. Route Total								9E-06					3E-01
		Exposure Point Total									4E-05					1E+00

TABLE 3-7.4.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station TT-30	Ingestion													
				Arsenic	1E+03	mg/kg	4.4E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.4E-05	5.1E-04	mg/kg-day	5.9E-04	mg/kg-day	8.7E-01
				Barium	3E+01	mg/kg	1.3E-06	mg/kg-day	N/A	N/A	N/A	1.6E-05	mg/kg-day	7.0E-02	mg/kg-day	2.2E-04
				Cadmium	7E+00	mg/kg	2.9E-07	mg/kg-day	N/A	N/A	N/A	3.4E-06	mg/kg-day	1.0E-03	mg/kg-day	3.4E-03
				Chromium III	5E+03	mg/kg	2.2E-04	mg/kg-day	N/A	N/A	N/A	2.5E-03	mg/kg-day	1.5E+00	mg/kg-day	1.7E-03
				Copper	4E+03	mg/kg	1.5E-04	mg/kg-day	N/A	N/A	N/A	1.8E-03	mg/kg-day	3.0E-02	mg/kg-day	6.0E-02
				Lead												
				Manganese	2E+02	mg/kg	8.4E-06	mg/kg-day	N/A	N/A	N/A	9.8E-05	mg/kg-day	7.0E-02	mg/kg-day	1.4E-03
				Mercury	9E+01	mg/kg	3.6E-06	mg/kg-day	N/A	N/A	N/A	4.2E-05	mg/kg-day	1.0E-04	mg/kg-day	4.2E-01
				Nickel	8E+00	mg/kg	3.3E-07	mg/kg-day	N/A	N/A	N/A	3.8E-06	mg/kg-day	2.0E-02	mg/kg-day	1.9E-04
				Thallium	2E+00	mg/kg	6.1E-08	mg/kg-day	N/A	N/A	N/A	7.1E-07	mg/kg-day	8.0E-05	mg/kg-day	8.9E-03
				Vanadium	2E+01	mg/kg	8.5E-07	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	mg/kg	4.8E-05	mg/kg-day	N/A	N/A	N/A	5.6E-04	mg/kg-day	3.0E-01	mg/kg-day	1.9E-03
				Chromium VI	7E+00	mg/kg	2.8E-07	mg/kg-day	N/A	N/A	N/A	3.3E-06	mg/kg-day	3.0E-03	mg/kg-day	1.1E-03
			Exp. Route Total								3E-05					1E+00
			Dermal													
				Arsenic	1E+03	mg/kg	7.4E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.1E-05	8.6E-05	mg/kg-day	3.0E-04	mg/kg-day	2.9E-01
				Cadmium	7E+00	mg/kg	1.6E-08	mg/kg-day	N/A	N/A	N/A	1.9E-07	mg/kg-day	2.5E-05	mg/kg-day	7.6E-03
			Exp. Route Total								1E-05					3E-01
		Exposure Point Total									4E-05					2E+00
		Station TT-31	Ingestion													
				Arsenic	3E+01	mg/kg	3.7E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.8E-06	4.3E-05	mg/kg-day	5.9E-04	mg/kg-day	7.3E-02
				Barium	2E+02	mg/kg	1.9E-05	mg/kg-day	N/A	N/A	N/A	2.3E-04	mg/kg-day	7.0E-02	mg/kg-day	3.2E-03
				Cadmium	6E+00	mg/kg	6.7E-07	mg/kg-day	N/A	N/A	N/A	7.8E-06	mg/kg-day	1.0E-03	mg/kg-day	7.8E-03
				Chromium III	3E+02	mg/kg	3.6E-05	mg/kg-day	N/A	N/A	N/A	4.2E-04	mg/kg-day	1.5E+00	mg/kg-day	2.8E-04
				Copper	2E+02	mg/kg	2.2E-05	mg/kg-day	N/A	N/A	N/A	2.6E-04	mg/kg-day	3.0E-02	mg/kg-day	8.6E-03
				Lead												
				Manganese	1E+03	mg/kg	1.5E-04	mg/kg-day	N/A	N/A	N/A	1.7E-03	mg/kg-day	7.0E-02	mg/kg-day	2.5E-02
				Mercury	2E+00	mg/kg	2.2E-07	mg/kg-day	N/A	N/A	N/A	2.6E-06	mg/kg-day	1.0E-04	mg/kg-day	2.6E-02
				Nickel	4E+01	mg/kg	4.3E-06	mg/kg-day	N/A	N/A	N/A	5.1E-05	mg/kg-day	2.0E-02	mg/kg-day	2.5E-03
				Vanadium	6E+01	mg/kg	6.9E-06	mg/kg-day	N/A	N/A	N/A	8.0E-05	mg/kg-day	1.0E-03	mg/kg-day	8.0E-02
				Zinc	7E+02	mg/kg	8.3E-05	mg/kg-day	N/A	N/A	N/A	9.7E-04	mg/kg-day	3.0E-01	mg/kg-day	3.2E-03
			Exp. Route Total								3E-06					2E-01
			Dermal													
				Arsenic	3E+01	mg/kg	6.2E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	9.3E-07	7.3E-06	mg/kg-day	3.0E-04	mg/kg-day	2.4E-02
				Cadmium	6E+00	mg/kg	3.8E-08	mg/kg-day	N/A	N/A	N/A	4.4E-07	mg/kg-day	2.5E-05	mg/kg-day	1.8E-02
			Exp. Route Total								9E-07					4E-02
		Exposure Point Total									4E-06					3E-01

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station CB-01	Ingestion													
				Antimony	2E+00	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	6E+01	mg/kg	9.4E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	7.3E-06	1.1E-04	mg/kg-day	5.9E-04	mg/kg-day	1.9E-01
				Barium	6E+01	mg/kg	9.6E-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
				Cadmium	9E+00	mg/kg	1.5E-06	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	1.0E-03	mg/kg-day	1.8E-02
				Chromium III	3E+02	mg/kg	5.4E-05	mg/kg-day	N/A	N/A	N/A	6.3E-04	mg/kg-day	1.5E+00	mg/kg-day	4.2E-04
				Copper	7E+02	mg/kg	1.2E-04	mg/kg-day	N/A	N/A	N/A	1.4E-03	mg/kg-day	3.0E-02	mg/kg-day	4.7E-02
				Lead												
				Manganese	7E+02	mg/kg	1.1E-04	mg/kg-day	N/A	N/A	N/A	1.3E-03	mg/kg-day	7.0E-02	mg/kg-day	1.9E-02
				Mercury	3E+00	mg/kg	4.8E-07	mg/kg-day	N/A	N/A	N/A	5.6E-06	mg/kg-day	1.0E-04	mg/kg-day	5.6E-02
				Nickel	2E+01	mg/kg	3.3E-06	mg/kg-day	N/A	N/A	N/A	3.9E-05	mg/kg-day	2.0E-02	mg/kg-day	1.9E-03
				Thallium	3E+00	mg/kg	4.1E-07	mg/kg-day	N/A	N/A	N/A	4.8E-06	mg/kg-day	8.0E-05	mg/kg-day	6.0E-02
				Vanadium	8E+01	mg/kg	1.3E-05	mg/kg-day	N/A	N/A	N/A	1.5E-04	mg/kg-day	1.0E-03	mg/kg-day	1.5E-01
				Zinc	6E+02	mg/kg	1.0E-04	mg/kg-day	N/A	N/A	N/A	1.2E-03	mg/kg-day	3.0E-01	mg/kg-day	4.0E-03
			Exp. Route Total								7E-06					6E-01
			Dermal													
				Arsenic	6E+01	mg/kg	1.6E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.4E-06	1.8E-05	mg/kg-day	3.0E-04	mg/kg-day	6.2E-02
				Cadmium	9E+00	mg/kg	8.5E-08	mg/kg-day	N/A	N/A	N/A	9.9E-07	mg/kg-day	2.5E-05	mg/kg-day	3.9E-02
			Exp. Route Total								2E-06					1E-01
		Exposure Point Total									1E-05					7E-01
		Station CB-02	Ingestion													
				Antimony	2E+00	mg/kg	2.9E-07	mg/kg-day	N/A	N/A	N/A	3.4E-06	mg/kg-day	4.0E-04	mg/kg-day	8.5E-03
				Arsenic	4E+01	mg/kg	6.7E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	5.2E-06	7.9E-05	mg/kg-day	5.9E-04	mg/kg-day	1.3E-01
				Barium	2E+02	mg/kg	2.8E-05	mg/kg-day	N/A	N/A	N/A	3.2E-04	mg/kg-day	7.0E-02	mg/kg-day	4.6E-03
				Cadmium	4E+00	mg/kg	8.2E-07	mg/kg-day	N/A	N/A	N/A	7.3E-06	mg/kg-day	1.0E-03	mg/kg-day	7.3E-03
				Chromium III	1E+02	mg/kg	2.3E-05	mg/kg-day	N/A	N/A	N/A	2.7E-04	mg/kg-day	1.5E+00	mg/kg-day	1.8E-04
				Copper	1E+02	mg/kg	1.6E-05	mg/kg-day	N/A	N/A	N/A	1.9E-04	mg/kg-day	3.0E-02	mg/kg-day	6.2E-03
				Lead												
				Manganese	7E+01	mg/kg	1.2E-05	mg/kg-day	N/A	N/A	N/A	1.4E-04	mg/kg-day	7.0E-02	mg/kg-day	2.0E-03
				Mercury	3E-01	mg/kg	5.3E-08	mg/kg-day	N/A	N/A	N/A	6.2E-07	mg/kg-day	1.0E-04	mg/kg-day	6.2E-03
				Nickel	1E+01	mg/kg	1.6E-06	mg/kg-day	N/A	N/A	N/A	1.9E-05	mg/kg-day	2.0E-02	mg/kg-day	9.5E-04
				Vanadium	3E+01	mg/kg	5.2E-06	mg/kg-day	N/A	N/A	N/A	6.1E-05	mg/kg-day	1.0E-03	mg/kg-day	6.1E-02
				Zinc	3E+02	mg/kg	5.1E-05	mg/kg-day	N/A	N/A	N/A	6.0E-04	mg/kg-day	3.0E-01	mg/kg-day	2.0E-03
			Exp. Route Total								5E-06					2E-01
			Dermal													
				Arsenic	4E+01	mg/kg	1.1E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.7E-06	1.3E-05	mg/kg-day	3.0E-04	mg/kg-day	4.4E-02
				Cadmium	4E+00	mg/kg	3.5E-08	mg/kg-day	N/A	N/A	N/A	4.1E-07	mg/kg-day	2.5E-05	mg/kg-day	1.6E-02
			Exp. Route Total								2E-06					6E-02
		Exposure Point Total									7E-06					3E-01

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station CB-03	Ingestion													
				Antimony	5E+00	mg/kg	7.8E-07	mg/kg-day	N/A	N/A	N/A	9.1E-06	mg/kg-day	4.0E-04	mg/kg-day	2.3E-02
				Arsenic	6E+02	mg/kg	9.7E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	7.5E-05	1.1E-03	mg/kg-day	5.9E-04	mg/kg-day	1.9E+00
				Barium	7E+01	mg/kg	1.1E-05	mg/kg-day	N/A	N/A	N/A	1.3E-04	mg/kg-day	7.0E-02	mg/kg-day	1.8E-03
				Cadmium	1E+01	mg/kg	2.1E-06	mg/kg-day	N/A	N/A	N/A	2.5E-05	mg/kg-day	1.0E-03	mg/kg-day	2.5E-02
				Chromium III	8E+02	mg/kg	1.3E-04	mg/kg-day	N/A	N/A	N/A	1.5E-03	mg/kg-day	1.5E+00	mg/kg-day	9.7E-04
				Copper	4E+02	mg/kg	6.1E-05	mg/kg-day	N/A	N/A	N/A	7.2E-04	mg/kg-day	3.0E-02	mg/kg-day	2.4E-02
				Lead												
				Manganese	5E+02	mg/kg	7.6E-05	mg/kg-day	N/A	N/A	N/A	8.8E-04	mg/kg-day	7.0E-02	mg/kg-day	1.3E-02
				Mercury	2E+00	mg/kg	4.0E-07	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	1.0E-04	mg/kg-day	4.7E-02
				Nickel	4E+01	mg/kg	6.0E-06	mg/kg-day	N/A	N/A	N/A	7.0E-05	mg/kg-day	2.0E-02	mg/kg-day	3.5E-03
				Thallium	1E+00	mg/kg	1.6E-07	mg/kg-day	N/A	N/A	N/A	1.8E-06	mg/kg-day	8.0E-05	mg/kg-day	2.3E-02
				Vanadium	6E+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
				Zinc	2E+03	mg/kg	3.4E-04	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								7E-05					2E+00
			Dermal													
				Arsenic	6E+02	mg/kg	1.6E-05	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.4E-05	1.9E-04	mg/kg-day	3.0E-04	mg/kg-day	6.3E-01
				Cadmium	1E+01	mg/kg	1.2E-07	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	2.5E-05	mg/kg-day	5.6E-02
			Exp. Route Total								2E-05					7E-01
		Exposure Point Total									1E-04					3E+00
		Station CB-04	Ingestion													
				Antimony	5E+00	mg/kg	7.8E-07	mg/kg-day	N/A	N/A	N/A	9.1E-06	mg/kg-day	4.0E-04	mg/kg-day	2.3E-02
				Arsenic	2E+02	mg/kg	3.0E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.3E-05	3.5E-04	mg/kg-day	5.9E-04	mg/kg-day	5.8E-01
				Barium	8E+01	mg/kg	1.2E-05	mg/kg-day	N/A	N/A	N/A	1.5E-04	mg/kg-day	7.0E-02	mg/kg-day	2.1E-03
				Cadmium	6E+00	mg/kg	9.3E-07	mg/kg-day	N/A	N/A	N/A	1.1E-05	mg/kg-day	1.0E-03	mg/kg-day	1.1E-02
				Chromium III	3E+02	mg/kg	4.4E-05	mg/kg-day	N/A	N/A	N/A	5.2E-04	mg/kg-day	1.5E+00	mg/kg-day	3.4E-04
				Copper	2E+02	mg/kg	4.0E-05	mg/kg-day	N/A	N/A	N/A	4.8E-04	mg/kg-day	3.0E-02	mg/kg-day	1.5E-02
				Lead												
				Manganese	1E+03	mg/kg	2.2E-04	mg/kg-day	N/A	N/A	N/A	2.6E-03	mg/kg-day	7.0E-02	mg/kg-day	3.7E-02
				Mercury	1E+00	mg/kg	2.0E-07	mg/kg-day	N/A	N/A	N/A	2.3E-06	mg/kg-day	1.0E-04	mg/kg-day	2.3E-02
				Nickel	8E+01	mg/kg	1.2E-05	mg/kg-day	N/A	N/A	N/A	1.5E-04	mg/kg-day	2.0E-02	mg/kg-day	7.3E-03
				Thallium	5E+00	mg/kg	8.6E-07	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	8.0E-05	mg/kg-day	1.3E-01
				Vanadium	7E+01	mg/kg	1.1E-05	mg/kg-day	N/A	N/A	N/A	1.3E-04	mg/kg-day	1.0E-03	mg/kg-day	1.3E-01
				Zinc	3E+03	mg/kg	5.0E-04	mg/kg-day	N/A	N/A	N/A	5.8E-03	mg/kg-day	3.0E-01	mg/kg-day	1.9E-02
			Exp. Route Total								2E-05					1E+00
			Dermal													
				Arsenic	2E+02	mg/kg	5.0E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	7.5E-06	5.8E-05	mg/kg-day	3.0E-04	mg/kg-day	1.9E-01
				Cadmium	6E+00	mg/kg	5.2E-08	mg/kg-day	N/A	N/A	N/A	6.1E-07	mg/kg-day	2.5E-05	mg/kg-day	2.4E-02
			Exp. Route Total								7E-06					2E-01
		Exposure Point Total									3E-05					1E+00

TABLE 3-7.4.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station CB-06	Ingestion													
				Antimony	5E+00	mg/kg	7.7E-07	mg/kg-day	N/A	N/A	N/A	9.0E-06	mg/kg-day	4.0E-04	mg/kg-day	2.2E-02
				Arsenic	1E+02	mg/kg	2.3E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.8E-05	2.7E-04	mg/kg-day	5.9E-04	mg/kg-day	4.5E-01
				Barium	5E+01	mg/kg	8.3E-06	mg/kg-day	N/A	N/A	N/A	9.7E-05	mg/kg-day	7.0E-02	mg/kg-day	1.4E-03
				Cadmium	2E+01	mg/kg	2.8E-06	mg/kg-day	N/A	N/A	N/A	3.3E-05	mg/kg-day	1.0E-03	mg/kg-day	3.3E-02
				Chromium III	5E+02	mg/kg	8.1E-05	mg/kg-day	N/A	N/A	N/A	9.4E-04	mg/kg-day	1.5E+00	mg/kg-day	6.3E-04
				Copper	2E+02	mg/kg	3.8E-05	mg/kg-day	N/A	N/A	N/A	4.5E-04	mg/kg-day	3.0E-02	mg/kg-day	1.5E-02
				Lead												
				Manganese	9E+01	mg/kg	1.5E-05	mg/kg-day	N/A	N/A	N/A	1.8E-04	mg/kg-day	7.0E-02	mg/kg-day	2.5E-03
				Mercury	3E-01	mg/kg	5.5E-08	mg/kg-day	N/A	N/A	N/A	6.4E-07	mg/kg-day	1.0E-04	mg/kg-day	6.4E-03
				Nickel	3E+01	mg/kg	4.5E-06	mg/kg-day	N/A	N/A	N/A	5.2E-05	mg/kg-day	2.0E-02	mg/kg-day	2.6E-03
				Thallium	4E+00	mg/kg	6.7E-07	mg/kg-day	N/A	N/A	N/A	7.9E-06	mg/kg-day	8.0E-05	mg/kg-day	9.8E-02
				Vanadium	7E+01	mg/kg	1.2E-05	mg/kg-day	N/A	N/A	N/A	1.4E-04	mg/kg-day	1.0E-03	mg/kg-day	1.4E-01
				Zinc	2E+03	mg/kg	3.4E-04	mg/kg-day	N/A	N/A	N/A	3.9E-03	mg/kg-day	3.0E-01	mg/kg-day	1.3E-02
				Chromium VI	6E-01	mg/kg	1.1E-07	mg/kg-day	N/A	N/A	N/A	1.2E-06	mg/kg-day	3.0E-03	mg/kg-day	4.1E-04
			Exp. Route Total								2E-05					8E-01
			Dermal													
				Arsenic	1E+02	mg/kg	3.8E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.7E-06	4.5E-05	mg/kg-day	3.0E-04	mg/kg-day	1.5E-01
				Cadmium	2E+01	mg/kg	1.6E-07	mg/kg-day	N/A	N/A	N/A	1.8E-06	mg/kg-day	2.5E-05	mg/kg-day	7.3E-02
			Exp. Route Total								6E-06					2E-01
		Exposure Point Total									2E-05					1E+00
		Station CB-07	Ingestion													
				Arsenic	2E+02	mg/kg	8.6E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	6.6E-06	1.0E-04	mg/kg-day	5.9E-04	mg/kg-day	1.7E-01
				Barium	6E+01	mg/kg	2.3E-06	mg/kg-day	N/A	N/A	N/A	2.7E-05	mg/kg-day	7.0E-02	mg/kg-day	3.8E-04
				Cadmium	5E+00	mg/kg	2.0E-07	mg/kg-day	N/A	N/A	N/A	2.3E-06	mg/kg-day	1.0E-03	mg/kg-day	2.3E-03
				Chromium III	7E+02	mg/kg	2.9E-05	mg/kg-day	N/A	N/A	N/A	3.4E-04	mg/kg-day	1.5E+00	mg/kg-day	2.3E-04
				Copper	4E+02	mg/kg	1.8E-05	mg/kg-day	N/A	N/A	N/A	2.1E-04	mg/kg-day	3.0E-02	mg/kg-day	6.9E-03
				Lead												
				Manganese	6E+02	mg/kg	2.6E-05	mg/kg-day	N/A	N/A	N/A	3.1E-04	mg/kg-day	7.0E-02	mg/kg-day	4.4E-03
				Mercury	1E+00	mg/kg	5.3E-08	mg/kg-day	N/A	N/A	N/A	6.1E-07	mg/kg-day	1.0E-04	mg/kg-day	6.1E-03
				Nickel	2E+01	mg/kg	8.9E-07	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	2.0E-02	mg/kg-day	5.2E-04
				Vanadium	9E+01	mg/kg	3.7E-06	mg/kg-day	N/A	N/A	N/A	4.3E-05	mg/kg-day	1.0E-03	mg/kg-day	4.3E-02
				Zinc	6E+02	mg/kg	2.5E-05	mg/kg-day	N/A	N/A	N/A	2.9E-04	mg/kg-day	3.0E-01	mg/kg-day	9.8E-04
			Exp. Route Total								7E-06					2E-01
			Dermal													
				Arsenic	2E+02	mg/kg	1.4E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.2E-06	1.7E-05	mg/kg-day	3.0E-04	mg/kg-day	5.6E-02
				Cadmium	5E+00	mg/kg	1.1E-08	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	2.5E-05	mg/kg-day	5.2E-03
			Exp. Route Total								2E-06					6E-02
		Exposure Point Total									9E-06					3E-01

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station 16/TT-33	Ingestion													
				Benzo(a)anthracene	1E-01	mg/kg	1.3E-08	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	9.8E-09	1.6E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E-01	mg/kg	1.7E-08	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	1.2E-07	2.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E-01	mg/kg	3.2E-08	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	2.3E-08	3.7E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E-01	mg/kg	1.2E-08	mg/kg-day	7.3E-02	(mg/kg-day)$^{-1}$	8.8E-10	1.4E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	6E-02	mg/kg	7.3E-09	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	5.3E-09	8.5E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	1E-01	mg/kg	1.6E-08	mg/kg-day	N/A	N/A	N/A	1.9E-07	mg/kg-day	2.0E-02	mg/kg-day	9.3E-06
				Antimony	6E+00	mg/kg	7.2E-07	mg/kg-day	N/A	N/A	N/A	8.4E-06	mg/kg-day	4.0E-04	mg/kg-day	2.1E-02
				Arsenic	2E+02	mg/kg	2.9E-05	mg/kg-day	7.7E-01	(mg/kg-day)$^{-1}$	2.2E-05	3.4E-04	mg/kg-day	5.9E-04	mg/kg-day	5.7E-01
				Barium	6E+01	mg/kg	7.6E-06	mg/kg-day	N/A	N/A	N/A	8.9E-05	mg/kg-day	7.0E-02	mg/kg-day	1.3E-03
				Cadmium	6E+00	mg/kg	6.8E-07	mg/kg-day	N/A	N/A	N/A	8.0E-06	mg/kg-day	1.0E-03	mg/kg-day	8.0E-03
				Chromium III	2E+03	mg/kg	2.7E-04	mg/kg-day	N/A	N/A	N/A	3.1E-03	mg/kg-day	1.5E+00	mg/kg-day	2.1E-03
				Copper	4E+02	mg/kg	4.9E-05	mg/kg-day	N/A	N/A	N/A	5.7E-04	mg/kg-day	3.0E-02	mg/kg-day	1.9E-02
				Lead												
				Manganese	8E+02	mg/kg	9.5E-05	mg/kg-day	N/A	N/A	N/A	1.1E-03	mg/kg-day	7.0E-02	mg/kg-day	1.6E-02
				Mercury	3E+00	mg/kg	4.2E-07	mg/kg-day	N/A	N/A	N/A	4.9E-06	mg/kg-day	1.0E-04	mg/kg-day	4.9E-02
				Nickel	2E+01	mg/kg	1.9E-06	mg/kg-day	N/A	N/A	N/A	2.2E-05	mg/kg-day	2.0E-02	mg/kg-day	1.1E-03
				Vanadium	3E+01	mg/kg	3.7E-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
				Zinc	9E+02	mg/kg	1.1E-04	mg/kg-day	N/A	N/A	N/A	1.3E-03	mg/kg-day	3.0E-01	mg/kg-day	4.4E-03
				Chromium VI	3E+00	mg/kg	3.5E-07	mg/kg-day	N/A	N/A	N/A	4.1E-06	mg/kg-day	3.0E-03	mg/kg-day	1.4E-03
			Exp. Route Total								2E-05					7E-01
			Dermal													
				Benzo(a)anthracene	1E-01	mg/kg	9.8E-09	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	7.1E-09	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E-01	mg/kg	1.2E-08	mg/kg-day	7.3E+00	(mg/kg-day)$^{-1}$	9.1E-08	1.5E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E-01	mg/kg	2.3E-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
				Benzo(k)fluoranthene	1E-01	mg/kg	8.8E-09	mg/kg-day	7.3E-02	(mg/kg-day)$^{-1}$	6.4E-10	1.0E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	6E-02	mg/kg	5.3E-09	mg/kg-day	7.3E-01	(mg/kg-day)$^{-1}$	3.9E-09	6.2E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	1E-01	mg/kg	1.2E-08	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	2.0E-02	mg/kg-day	6.7E-06
				Arsenic	2E+02	mg/kg	4.8E-06	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	7.3E-06	5.7E-05	mg/kg-day	3.0E-04	mg/kg-day	1.9E-01
				Cadmium	6E+00	mg/kg	3.8E-08	mg/kg-day	N/A	N/A	N/A	4.5E-07	mg/kg-day	2.5E-05	mg/kg-day	1.8E-02
			Exp. Route Total								7E-06					2E-01
		Exposure Point Total									3E-05					9E-01

TABLE 3-7.4.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station 09	Ingestion													
				Benzo(a)anthracene	5E-01	mg/kg	5.8E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.3E-08	6.8E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	5E-01	mg/kg	6.1E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.5E-07	7.2E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	1.6E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.2E-07	1.9E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	1.5E-07	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.1E-08	1.7E-06	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	8E-02	mg/kg	9.8E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	7.1E-08	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	mg/kg	3.1E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.2E-08	3.6E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E+00	mg/kg	2.3E-07	mg/kg-day	N/A	N/A	N/A	2.7E-06	mg/kg-day	2.0E-02	mg/kg-day	1.4E-04
				Antimony	1E+00	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	3E+01	mg/kg	4.3E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.3E-06	5.0E-05	mg/kg-day	5.9E-04	mg/kg-day	8.4E-02
				Barium	3E+01	mg/kg	4.1E-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
				Cadmium	7E-01	mg/kg	8.3E-08	mg/kg-day	N/A	N/A	N/A	9.7E-07	mg/kg-day	1.0E-03	mg/kg-day	9.7E-04
				Chromium III	6E+01	mg/kg	7.2E-06	mg/kg-day	N/A	N/A	N/A	8.4E-05	mg/kg-day	1.5E+00	mg/kg-day	5.6E-05
				Copper	6E+01	mg/kg	7.7E-06	mg/kg-day	N/A	N/A	N/A	9.0E-05	mg/kg-day	3.0E-02	mg/kg-day	3.0E-03
				Lead												
				Manganese	3E+03	mg/kg	3.2E-04	mg/kg-day	N/A	N/A	N/A	3.8E-03	mg/kg-day	7.0E-02	mg/kg-day	5.4E-02
				Mercury	4E-01	mg/kg	4.7E-08	mg/kg-day	N/A	N/A	N/A	5.5E-07	mg/kg-day	1.0E-04	mg/kg-day	5.5E-03
				Nickel	1E+01	mg/kg	1.2E-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
				Thallium	1E+00	mg/kg	1.6E-07	mg/kg-day	N/A	N/A	N/A	1.8E-06	mg/kg-day	8.0E-05	mg/kg-day	2.3E-02
				Vanadium	1E+01	mg/kg	1.7E-06	mg/kg-day	N/A	N/A	N/A	1.9E-05	mg/kg-day	1.0E-03	mg/kg-day	1.9E-02
				Zinc	2E+02	mg/kg	2.9E-05	mg/kg-day	N/A	N/A	N/A	3.4E-04	mg/kg-day	3.0E-01	mg/kg-day	1.1E-03
			Exp. Route Total								4E-06					2E-01
			Dermal													
				Benzo(a)anthracene	5E-01	mg/kg	4.2E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.1E-08	4.9E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	5E-01	mg/kg	4.5E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.3E-07	5.2E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	1.2E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	8.6E-08	1.4E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	1.1E-07	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	7.8E-09	1.3E-06	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	8E-02	mg/kg	7.1E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	5.2E-08	8.3E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	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
				Phenanthrene	2E+00	mg/kg	1.7E-07	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	2.0E-02	mg/kg-day	9.9E-05
				Arsenic	3E+01	mg/kg	7.2E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.1E-06	8.3E-06	mg/kg-day	3.0E-04	mg/kg-day	2.8E-02
				Cadmium	7E-01	mg/kg	4.7E-09	mg/kg-day	N/A	N/A	N/A	5.4E-08	mg/kg-day	2.5E-05	mg/kg-day	2.2E-03
			Exp. Route Total								2E-06					3E-02
		Exposure Point Total									6E-06					2E-01

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station AM	Ingestion													
				Antimony	2E+00	mg/kg	8.1E-08	mg/kg-day	N/A	N/A	N/A	9.5E-07	mg/kg-day	4.0E-04	mg/kg-day	2.4E-03
				Arsenic	1E+02	mg/kg	4.9E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.8E-06	5.7E-05	mg/kg-day	5.9E-04	mg/kg-day	9.7E-02
				Barium	6E+01	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
				Cadmium	4E+00	mg/kg	1.6E-07	mg/kg-day	N/A	N/A	N/A	1.9E-06	mg/kg-day	1.0E-03	mg/kg-day	1.9E-03
				Chromium III	3E+02	mg/kg	1.3E-05	mg/kg-day	N/A	N/A	N/A	1.5E-04	mg/kg-day	1.5E+00	mg/kg-day	1.0E-04
				Copper	2E+02	mg/kg	8.0E-06	mg/kg-day	N/A	N/A	N/A	9.4E-05	mg/kg-day	3.0E-02	mg/kg-day	3.1E-03
				Lead												
				Manganese	1E+03	mg/kg	4.6E-05	mg/kg-day	N/A	N/A	N/A	5.4E-04	mg/kg-day	7.0E-02	mg/kg-day	7.7E-03
				Mercury	2E+00	mg/kg	7.7E-08	mg/kg-day	N/A	N/A	N/A	9.0E-07	mg/kg-day	1.0E-04	mg/kg-day	9.0E-03
				Nickel	2E+01	mg/kg	7.3E-07	mg/kg-day	N/A	N/A	N/A	8.5E-06	mg/kg-day	2.0E-02	mg/kg-day	4.3E-04
				Thallium	4E-01	mg/kg	1.8E-08	mg/kg-day	N/A	N/A	N/A	2.1E-07	mg/kg-day	8.0E-05	mg/kg-day	2.6E-03
				Vanadium	3E+01	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	1.0E-03	mg/kg-day	1.3E-02
				Zinc	9E+02	mg/kg	3.8E-05	mg/kg-day	N/A	N/A	N/A	4.5E-04	mg/kg-day	3.0E-01	mg/kg-day	1.5E-03
			Exp. Route Total								4E-06					1E-01
			Dermal													
				Arsenic	1E+02	mg/kg	8.3E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.2E-06	9.7E-06	mg/kg-day	3.0E-04	mg/kg-day	3.2E-02
				Cadmium	4E+00	mg/kg	8.9E-09	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	2.5E-05	mg/kg-day	4.1E-03
			Exp. Route Total								1E-06					4E-02
		Exposure Point Total									5E-06					2E-01
		Station KF	Ingestion													
				Arsenic	5E+01	mg/kg	8.3E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	4.9E-06	7.4E-05	mg/kg-day	5.9E-04	mg/kg-day	1.2E-01
				Barium	4E+01	mg/kg	5.0E-06	mg/kg-day	N/A	N/A	N/A	5.8E-05	mg/kg-day	7.0E-02	mg/kg-day	8.3E-04
				Cadmium	1E+00	mg/kg	1.3E-07	mg/kg-day	N/A	N/A	N/A	1.5E-06	mg/kg-day	1.0E-03	mg/kg-day	1.5E-03
				Chromium III	9E+01	mg/kg	1.1E-05	mg/kg-day	N/A	N/A	N/A	1.3E-04	mg/kg-day	1.5E+00	mg/kg-day	8.3E-05
				Copper	1E+02	mg/kg	1.4E-05	mg/kg-day	N/A	N/A	N/A	1.6E-04	mg/kg-day	3.0E-02	mg/kg-day	5.3E-03
				Lead												
				Manganese	4E+02	mg/kg	4.4E-05	mg/kg-day	N/A	N/A	N/A	5.2E-04	mg/kg-day	7.0E-02	mg/kg-day	7.4E-03
				Mercury	9E-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
				Nickel	9E+00	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	2.0E-02	mg/kg-day	6.4E-04
				Vanadium	2E+01	mg/kg	2.8E-06	mg/kg-day	N/A	N/A	N/A	3.3E-05	mg/kg-day	1.0E-03	mg/kg-day	3.3E-02
				Zinc	3E+02	mg/kg	4.3E-05	mg/kg-day	N/A	N/A	N/A	5.0E-04	mg/kg-day	3.0E-01	mg/kg-day	1.7E-03
			Exp. Route Total								5E-06					2E-01
			Dermal													
				Arsenic	5E+01	mg/kg	1.1E-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	4.1E-02
				Cadmium	1E+00	mg/kg	7.1E-08	mg/kg-day	N/A	N/A	N/A	8.3E-08	mg/kg-day	2.5E-05	mg/kg-day	3.3E-03
			Exp. Route Total								2E-06					4E-02
		Exposure Point Total									6E-06					2E-01

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station 08	Ingestion													
				Benzo(a)anthracene	7E-01	mg/kg	8.3E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.1E-08	9.7E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	9E-01	mg/kg	1.1E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	8.4E-07	1.3E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	2.3E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.7E-07	2.7E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E+00	mg/kg	2.4E-07	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.8E-08	2.8E-06	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	2E-01	mg/kg	2.0E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.4E-07	2.3E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	7E-01	mg/kg	8.3E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.1E-08	9.7E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	6E-01	mg/kg	7.4E-08	mg/kg-day	N/A	N/A	N/A	8.7E-07	mg/kg-day	2.0E-02	mg/kg-day	4.3E-05
				Antimony	2E+00	mg/kg	2.0E-07	mg/kg-day	N/A	N/A	N/A	2.3E-06	mg/kg-day	4.0E-04	mg/kg-day	5.7E-03
				Arsenic	3E+01	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
				Barium	2E+01	mg/kg	2.6E-06	mg/kg-day	N/A	N/A	N/A	3.0E-05	mg/kg-day	7.0E-02	mg/kg-day	4.3E-04
				Chromium III	1E+02	mg/kg	1.5E-05	mg/kg-day	N/A	N/A	N/A	1.7E-04	mg/kg-day	1.5E+00	mg/kg-day	1.1E-04
				Copper	1E+02	mg/kg	1.6E-05	mg/kg-day	N/A	N/A	N/A	1.9E-04	mg/kg-day	3.0E-02	mg/kg-day	6.3E-03
				Lead												
				Manganese	2E+02	mg/kg	2.8E-05	mg/kg-day	N/A	N/A	N/A	3.2E-04	mg/kg-day	7.0E-02	mg/kg-day	4.6E-03
				Mercury	1E+00	mg/kg	1.2E-07	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	1.0E-04	mg/kg-day	1.4E-02
				Nickel	2E+01	mg/kg	2.5E-06	mg/kg-day	N/A	N/A	N/A	2.9E-05	mg/kg-day	2.0E-02	mg/kg-day	1.4E-03
				Thallium	2E+00	mg/kg	2.1E-07	mg/kg-day	N/A	N/A	N/A	2.4E-06	mg/kg-day	8.0E-05	mg/kg-day	3.0E-02
				Vanadium	2E+01	mg/kg	2.1E-06	mg/kg-day	N/A	N/A	N/A	2.5E-05	mg/kg-day	1.0E-03	mg/kg-day	2.5E-02
				Zinc	5E+02	mg/kg	6.6E-05	mg/kg-day	N/A	N/A	N/A	7.7E-04	mg/kg-day	3.0E-01	mg/kg-day	2.6E-03
			Exp. Route Total								4E-06					2E-01
			Dermal													
				Benzo(a)anthracene	7E-01	mg/kg	6.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.4E-08	7.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	9E-01	mg/kg	8.4E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	6.1E-07	9.7E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E+00	mg/kg	1.7E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.2E-07	2.0E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E+00	mg/kg	1.8E-07	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.3E-08	2.1E-06	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	2E-01	mg/kg	1.4E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.0E-07	1.7E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	7E-01	mg/kg	6.0E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.4E-08	7.1E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	6E-01	mg/kg	5.4E-08	mg/kg-day	N/A	N/A	N/A	6.3E-07	mg/kg-day	2.0E-02	mg/kg-day	3.2E-05
				Arsenic	3E+01	mg/kg	5.9E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	8.9E-07	6.9E-06	mg/kg-day	3.0E-04	mg/kg-day	2.3E-02
			Exp. Route Total								2E-06					2E-02
		Exposure Point Total									6E-06					2E-01

TABLE 3-7.4.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station 07/DP	Ingestion													
				Trichloroethene	2E-02	mg/kg	2.7E-09	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.1E-09	3.2E-08	mg/kg-day	3.0E-04	mg/kg-day	1.1E-04
				Benzo(a)anthracene	6E+00	mg/kg	6.8E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.0E-07	8.0E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	6E+00	mg/kg	6.8E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.9E-06	7.9E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+01	mg/kg	1.2E-06	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	8.5E-07	1.4E-05	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	9E+00	mg/kg	1.1E-06	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	8.2E-08	1.3E-05	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1E+00	mg/kg	1.3E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	9.7E-07	1.5E-06	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	4E+00	mg/kg	4.7E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.4E-07	5.5E-06	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	7E+00	mg/kg	8.3E-07	mg/kg-day	N/A	N/A	N/A	9.7E-06	mg/kg-day	2.0E-02	mg/kg-day	4.9E-04
				Aroclor 1260	7E-02	mg/kg	8.1E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.6E-08	9.5E-08	mg/kg-day	2.0E-05	mg/kg-day	4.7E-03
				Antimony	2E+00	mg/kg	2.8E-07	mg/kg-day	N/A	N/A	N/A	3.3E-06	mg/kg-day	4.0E-04	mg/kg-day	8.3E-03
				Arsenic	8E+01	mg/kg	9.8E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	7.5E-06	1.1E-04	mg/kg-day	5.9E-04	mg/kg-day	1.9E-01
				Barium	8E+01	mg/kg	1.0E-05	mg/kg-day	N/A	N/A	N/A	1.2E-04	mg/kg-day	7.0E-02	mg/kg-day	1.7E-03
				Cadmium	5E+00	mg/kg	6.2E-07	mg/kg-day	N/A	N/A	N/A	7.3E-06	mg/kg-day	1.0E-03	mg/kg-day	7.3E-03
				Chromium III	2E+02	mg/kg	3.0E-05	mg/kg-day	N/A	N/A	N/A	3.5E-04	mg/kg-day	1.5E+00	mg/kg-day	2.4E-04
				Copper	2E+02	mg/kg	2.9E-05	mg/kg-day	N/A	N/A	N/A	3.3E-04	mg/kg-day	3.0E-02	mg/kg-day	1.1E-02
				Lead												
				Manganese	4E+02	mg/kg	5.1E-05	mg/kg-day	N/A	N/A	N/A	5.9E-04	mg/kg-day	7.0E-02	mg/kg-day	8.5E-03
				Mercury	3E+00	mg/kg	3.4E-07	mg/kg-day	N/A	N/A	N/A	4.0E-06	mg/kg-day	1.0E-04	mg/kg-day	4.0E-02
				Nickel	3E+01	mg/kg	3.4E-06	mg/kg-day	N/A	N/A	N/A	3.9E-05	mg/kg-day	2.0E-02	mg/kg-day	2.0E-03
				Thallium	2E+00	mg/kg	2.7E-07	mg/kg-day	N/A	N/A	N/A	3.1E-06	mg/kg-day	8.0E-05	mg/kg-day	3.9E-02
				Vanadium	5E+01	mg/kg	6.3E-06	mg/kg-day	N/A	N/A	N/A	7.4E-05	mg/kg-day	1.0E-03	mg/kg-day	7.4E-02
				Zinc	1E+03	mg/kg	1.6E-04	mg/kg-day	N/A	N/A	N/A	1.9E-03	mg/kg-day	3.0E-01	mg/kg-day	6.4E-03
			Exp. Route Total								2E-05					4E-01
			Dermal													
				Benzo(a)anthracene	6E+00	mg/kg	5.0E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.6E-07	5.8E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	6E+00	mg/kg	4.9E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.6E-06	5.8E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+01	mg/kg	8.5E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.2E-07	9.9E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	9E+00	mg/kg	8.2E-07	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	6.0E-08	9.5E-06	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1E+00	mg/kg	9.6E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	7.0E-07	1.1E-05	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	4E+00	mg/kg	3.4E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.5E-07	4.0E-06	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	7E+00	mg/kg	6.1E-07	mg/kg-day	N/A	N/A	N/A	7.1E-06	mg/kg-day	2.0E-02	mg/kg-day	3.5E-04
				Aroclor 1260	7E-02	mg/kg	6.4E-09	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.3E-08	7.4E-08	mg/kg-day	2.0E-05	mg/kg-day	3.7E-03
				Arsenic	8E+01	mg/kg	1.6E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.5E-06	1.9E-05	mg/kg-day	3.0E-04	mg/kg-day	6.4E-02
				Cadmium	5E+00	mg/kg	3.5E-08	mg/kg-day	N/A	N/A	N/A	4.1E-07	mg/kg-day	2.5E-05	mg/kg-day	1.6E-02
			Exp. Route Total								8E-06					8E-02
		Exposure Point Total									2E-05					5E-01

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station LP	Ingestion													
				Antimony	2E+00	mg/kg	2.1E-07	mg/kg-day	N/A	N/A	N/A	2.4E-06	mg/kg-day	4.0E-04	mg/kg-day	6.1E-03
				Arsenic	2E+02	mg/kg	1.8E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.4E-05	2.1E-04	mg/kg-day	5.9E-04	mg/kg-day	3.6E-01
				Barium	4E+01	mg/kg	4.5E-06	mg/kg-day	N/A	N/A	N/A	5.3E-05	mg/kg-day	7.0E-02	mg/kg-day	7.6E-04
				Cadmium	3E+00	mg/kg	3.2E-07	mg/kg-day	N/A	N/A	N/A	3.8E-06	mg/kg-day	1.0E-03	mg/kg-day	3.8E-03
				Chromium III	8E+01	mg/kg	9.4E-06	mg/kg-day	N/A	N/A	N/A	1.1E-04	mg/kg-day	1.5E+00	mg/kg-day	7.3E-05
				Copper	4E+02	mg/kg	4.5E-05	mg/kg-day	N/A	N/A	N/A	5.2E-04	mg/kg-day	3.0E-02	mg/kg-day	1.7E-02
				Lead												
				Manganese	2E+02	mg/kg	2.5E-05	mg/kg-day	N/A	N/A	N/A	3.0E-04	mg/kg-day	7.0E-02	mg/kg-day	4.2E-03
				Mercury	7E-01	mg/kg	8.9E-08	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	1.0E-04	mg/kg-day	1.0E-02
				Nickel	1E+01	mg/kg	1.7E-06	mg/kg-day	N/A	N/A	N/A	2.0E-05	mg/kg-day	2.0E-02	mg/kg-day	1.0E-03
				Thallium	2E+00	mg/kg	2.3E-07	mg/kg-day	N/A	N/A	N/A	2.7E-06	mg/kg-day	8.0E-05	mg/kg-day	3.4E-02
				Vanadium	2E+01	mg/kg	2.6E-06	mg/kg-day	N/A	N/A	N/A	3.0E-05	mg/kg-day	1.0E-03	mg/kg-day	3.0E-02
				Zinc	1E+03	mg/kg	1.6E-04	mg/kg-day	N/A	N/A	N/A	1.8E-03	mg/kg-day	3.0E-01	mg/kg-day	6.2E-03
			Exp. Route Total								1E-05					5E-01
			Dermal													
				Arsenic	2E+02	mg/kg	3.1E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.6E-06	3.6E-05	mg/kg-day	3.0E-04	mg/kg-day	1.2E-01
				Cadmium	3E+00	mg/kg	1.8E-08	mg/kg-day	N/A	N/A	N/A	2.1E-07	mg/kg-day	2.5E-05	mg/kg-day	8.4E-03
			Exp. Route Total								5E-06					1E-01
		Exposure Point Total									2E-05					6E-01
		Station AS	Ingestion													
				Antimony	3E+00	mg/kg	3.5E-07	mg/kg-day	N/A	N/A	N/A	4.1E-06	mg/kg-day	4.0E-04	mg/kg-day	1.0E-02
				Arsenic	1E+02	mg/kg	1.5E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.1E-05	1.7E-04	mg/kg-day	5.9E-04	mg/kg-day	2.9E-01
				Barium	1E+02	mg/kg	1.3E-05	mg/kg-day	N/A	N/A	N/A	1.6E-04	mg/kg-day	7.0E-02	mg/kg-day	2.2E-03
				Cadmium	1E+01	mg/kg	1.6E-06	mg/kg-day	N/A	N/A	N/A	1.9E-05	mg/kg-day	1.0E-03	mg/kg-day	1.9E-02
				Chromium III	9E+02	mg/kg	1.1E-04	mg/kg-day	N/A	N/A	N/A	1.3E-03	mg/kg-day	1.5E+00	mg/kg-day	8.7E-04
				Copper	6E+02	mg/kg	7.0E-05	mg/kg-day	N/A	N/A	N/A	8.2E-04	mg/kg-day	3.0E-02	mg/kg-day	2.7E-02
				Lead												
				Manganese	4E+02	mg/kg	4.7E-05	mg/kg-day	N/A	N/A	N/A	5.5E-04	mg/kg-day	7.0E-02	mg/kg-day	7.8E-03
				Mercury	3E+00	mg/kg	3.8E-07	mg/kg-day	N/A	N/A	N/A	4.4E-06	mg/kg-day	1.0E-04	mg/kg-day	4.4E-02
				Nickel	4E+01	mg/kg	4.8E-06	mg/kg-day	N/A	N/A	N/A	5.6E-05	mg/kg-day	2.0E-02	mg/kg-day	2.8E-03
				Thallium	1E+00	mg/kg	1.5E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	8.0E-05	mg/kg-day	2.1E-02
				Vanadium	7E+01	mg/kg	8.9E-06	mg/kg-day	N/A	N/A	N/A	1.0E-04	mg/kg-day	1.0E-03	mg/kg-day	1.0E-01
				Zinc	2E+03	mg/kg	2.8E-04	mg/kg-day	N/A	N/A	N/A	3.3E-03	mg/kg-day	3.0E-01	mg/kg-day	1.1E-02
			Exp. Route Total								1E-05					5E-01
			Dermal													
				Arsenic	1E+02	mg/kg	2.5E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.7E-06	2.9E-05	mg/kg-day	3.0E-04	mg/kg-day	9.7E-02
				Cadmium	1E+01	mg/kg	9.1E-08	mg/kg-day	N/A	N/A	N/A	1.1E-06	mg/kg-day	2.5E-05	mg/kg-day	4.2E-02
			Exp. Route Total								4E-06					1E-01
		Exposure Point Total									2E-05					7E-01

TABLE 3-7.4.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station 05	Ingestion													
				Benzo(a)anthracene	2E+00	mg/kg	2.8E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.1E-07	3.3E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	3E+00	mg/kg	3.1E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.2E-06	3.6E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E+00	mg/kg	3.7E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.7E-07	4.3E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E+00	mg/kg	2.3E-07	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.7E-08	2.7E-06	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E+00	mg/kg	1.5E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.1E-07	1.7E-06	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E+00	mg/kg	2.7E-07	mg/kg-day	N/A	N/A	N/A	3.1E-06	mg/kg-day	2.0E-02	mg/kg-day	1.6E-04
				Antimony	2E+00	mg/kg	2.2E-07	mg/kg-day	N/A	N/A	N/A	2.6E-06	mg/kg-day	4.0E-04	mg/kg-day	6.4E-03
				Arsenic	2E+01	mg/kg	3.0E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.3E-06	3.5E-05	mg/kg-day	5.9E-04	mg/kg-day	6.0E-02
				Barium	4E+01	mg/kg	5.3E-06	mg/kg-day	N/A	N/A	N/A	6.2E-05	mg/kg-day	7.0E-02	mg/kg-day	8.8E-04
				Cadmium	2E+00	mg/kg	2.0E-07	mg/kg-day	N/A	N/A	N/A	2.3E-06	mg/kg-day	1.0E-03	mg/kg-day	2.3E-03
				Chromium III	1E+02	mg/kg	1.8E-05	mg/kg-day	N/A	N/A	N/A	2.1E-04	mg/kg-day	1.5E+00	mg/kg-day	1.4E-04
				Copper	8E+01	mg/kg	9.8E-06	mg/kg-day	N/A	N/A	N/A	1.1E-04	mg/kg-day	3.0E-02	mg/kg-day	3.8E-03
				Lead												
				Manganese	1E+03	mg/kg	1.2E-04	mg/kg-day	N/A	N/A	N/A	1.4E-03	mg/kg-day	7.0E-02	mg/kg-day	1.9E-02
				Mercury	1E+00	mg/kg	1.5E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	1.0E-04	mg/kg-day	1.7E-02
				Nickel	1E+01	mg/kg	1.3E-06	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	2.0E-02	mg/kg-day	7.6E-04
				Thallium	1E+00	mg/kg	1.2E-07	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	8.0E-05	mg/kg-day	1.7E-02
				Vanadium	2E+01	mg/kg	2.4E-06	mg/kg-day	N/A	N/A	N/A	2.8E-05	mg/kg-day	1.0E-03	mg/kg-day	2.8E-02
				Zinc	6E+02	mg/kg	7.0E-05	mg/kg-day	N/A	N/A	N/A	8.1E-04	mg/kg-day	3.0E-01	mg/kg-day	2.7E-03
			Exp. Route Total								5E-06					2E-01
			Dermal													
				Benzo(a)anthracene	2E+00	mg/kg	2.0E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.5E-07	2.4E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	3E+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
				Benzo(b)fluoranthene	3E+00	mg/kg	2.7E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.9E-07	3.1E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E+00	mg/kg	1.7E-07	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.2E-08	2.0E-06	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E+00	mg/kg	1.1E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	7.8E-08	1.2E-06	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E+00	mg/kg	2.0E-07	mg/kg-day	N/A	N/A	N/A	2.3E-06	mg/kg-day	2.0E-02	mg/kg-day	1.1E-04
				Arsenic	2E+01	mg/kg	5.1E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	7.6E-07	5.9E-06	mg/kg-day	3.0E-04	mg/kg-day	2.0E-02
				Cadmium	2E+00	mg/kg	1.1E-08	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	2.5E-05	mg/kg-day	5.1E-03
			Exp. Route Total								3E-06					3E-02
		Exposure Point Total									8E-06					2E-01

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station 03	Ingestion													
				Benzo(a)anthracene	1E+00	mg/kg	1.6E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.2E-07	1.9E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	1.2E-07	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	8.9E-07	1.4E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	1.7E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.2E-07	2.0E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	6E-01	mg/kg	7.8E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	5.7E-09	9.1E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1E-01	mg/kg	1.3E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	9.8E-08	1.6E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	6E-01	mg/kg	7.6E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.5E-08	8.8E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	1E+00	mg/kg	1.2E-07	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	2.0E-02	mg/kg-day	7.1E-05
				Aroclor 1260	1E-01	mg/kg	1.3E-08	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	2.7E-08	1.6E-07	mg/kg-day	2.0E-05	mg/kg-day	7.8E-03
				Antimony	2E+00	mg/kg	2.1E-07	mg/kg-day	N/A	N/A	N/A	2.4E-06	mg/kg-day	4.0E-04	mg/kg-day	6.1E-03
				Arsenic	9E+01	mg/kg	1.1E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	8.1E-06	1.2E-04	mg/kg-day	5.9E-04	mg/kg-day	2.1E-01
				Barium	8E+01	mg/kg	1.0E-05	mg/kg-day	N/A	N/A	N/A	1.2E-04	mg/kg-day	7.0E-02	mg/kg-day	1.7E-03
				Cadmium	5E+00	mg/kg	6.3E-07	mg/kg-day	N/A	N/A	N/A	7.4E-06	mg/kg-day	1.0E-03	mg/kg-day	7.4E-03
				Chromium III	2E+02	mg/kg	2.4E-05	mg/kg-day	N/A	N/A	N/A	2.8E-04	mg/kg-day	1.5E+00	mg/kg-day	1.9E-04
				Copper	2E+02	mg/kg	2.1E-05	mg/kg-day	N/A	N/A	N/A	2.4E-04	mg/kg-day	3.0E-02	mg/kg-day	8.1E-03
				Lead												
				Manganese	5E+02	mg/kg	6.1E-05	mg/kg-day	N/A	N/A	N/A	7.2E-04	mg/kg-day	7.0E-02	mg/kg-day	1.0E-02
				Mercury	7E-01	mg/kg	8.7E-08	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	1.0E-04	mg/kg-day	1.0E-02
				Nickel	3E+01	mg/kg	3.3E-06	mg/kg-day	N/A	N/A	N/A	3.8E-05	mg/kg-day	2.0E-02	mg/kg-day	1.9E-03
				Vanadium	5E+01	mg/kg	6.0E-06	mg/kg-day	N/A	N/A	N/A	7.0E-05	mg/kg-day	1.0E-03	mg/kg-day	7.0E-02
				Zinc	1E+03	mg/kg	1.7E-04	mg/kg-day	N/A	N/A	N/A	2.0E-03	mg/kg-day	3.0E-01	mg/kg-day	6.7E-03
			Exp. Route Total								9E-06					3E-01
			Dermal													
				Benzo(a)anthracene	1E+00	mg/kg	1.2E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	8.4E-08	1.3E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	8.9E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	6.5E-07	1.0E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	1.2E-07	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.1E-08	1.5E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	6E-01	mg/kg	5.7E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	4.2E-09	6.6E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1E-01	mg/kg	9.8E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	7.1E-08	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	6E-01	mg/kg	5.5E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.0E-08	6.4E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	1E+00	mg/kg	8.9E-08	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	2.0E-02	mg/kg-day	5.2E-05
				Aroclor 1260	1E-01	mg/kg	1.1E-08	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	2.1E-08	1.2E-07	mg/kg-day	2.0E-05	mg/kg-day	6.1E-03
				Arsenic	9E+01	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	5E+00	mg/kg	3.8E-08	mg/kg-day	N/A	N/A	N/A	4.1E-07	mg/kg-day	2.5E-05	mg/kg-day	1.7E-02
			Exp. Route Total								4E-06					9E-02
		Exposure Point Total									1E-05					4E-01

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station 01	Ingestion													
				Benzo(a)anthracene	3E-01	mg/kg	3.1E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.2E-08	3.6E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	2.6E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.9E-07	3.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E-01	mg/kg	2.1E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.5E-08	2.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E-01	mg/kg	2.6E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.9E-09	3.0E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	1.5E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.1E-08	1.7E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	5.7E-08	mg/kg-day	N/A	N/A	N/A	6.6E-07	mg/kg-day	2.0E-02	mg/kg-day	3.3E-05
				Antimony	9E-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	3.1E-03
				Arsenic	8E+00	mg/kg	7.5E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	5.8E-07	8.8E-06	mg/kg-day	5.9E-04	mg/kg-day	1.5E-02
				Barium	1E+01	mg/kg	1.5E-06	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	7.0E-02	mg/kg-day	2.5E-04
				Cadmium	2E-01	mg/kg	2.0E-08	mg/kg-day	N/A	N/A	N/A	2.4E-07	mg/kg-day	1.0E-03	mg/kg-day	2.4E-04
				Chromium III	1E+01	mg/kg	1.2E-06	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	1.5E+00	mg/kg-day	9.3E-06
				Copper	2E+01	mg/kg	2.0E-06	mg/kg-day	N/A	N/A	N/A	2.4E-05	mg/kg-day	3.0E-02	mg/kg-day	7.9E-04
				Lead												
				Manganese	1E+02	mg/kg	1.3E-05	mg/kg-day	N/A	N/A	N/A	1.5E-04	mg/kg-day	7.0E-02	mg/kg-day	2.1E-03
				Nickel	7E+00	mg/kg	8.8E-07	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	2.0E-02	mg/kg-day	5.1E-04
				Thallium	5E-01	mg/kg	6.3E-08	mg/kg-day	N/A	N/A	N/A	7.4E-07	mg/kg-day	8.0E-05	mg/kg-day	9.2E-03
				Vanadium	1E+01	mg/kg	1.4E-06	mg/kg-day	N/A	N/A	N/A	1.7E-05	mg/kg-day	1.0E-03	mg/kg-day	1.7E-02
				Zinc	2E+02	mg/kg	1.9E-05	mg/kg-day	N/A	N/A	N/A	2.2E-04	mg/kg-day	3.0E-01	mg/kg-day	7.3E-04
			Exp. Route Total								8E-07					5E-02
			Dermal													
				Benzo(a)anthracene	3E-01	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
				Benzo(a)pyrene	2E-01	mg/kg	1.9E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.4E-07	2.2E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E-01	mg/kg	1.5E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.1E-08	1.8E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E-01	mg/kg	1.9E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.4E-09	2.2E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	1.1E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	7.8E-09	1.2E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	4.1E-08	mg/kg-day	N/A	N/A	N/A	4.8E-07	mg/kg-day	2.0E-02	mg/kg-day	2.4E-05
				Arsenic	6E+00	mg/kg	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	4.9E-03
				Cadmium	2E-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	5.3E-04
			Exp. Route Total								4E-07					5E-03
		Exposure Point Total									1E-06					5E-02
	Exposure Medium Total										N/A					N/A

TABLE 3-7.4.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Soil	Surface Soil	Station NR	Ingestion													
				Arsenic	2E+02	mg/kg	1.6E-05	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.4E-05	1.9E-04	mg/kg-day	3.0E-04	mg/kg-day	6.4E-01
				Cadmium	2E+00	mg/kg	1.7E-07	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	1.0E-03	mg/kg-day	2.0E-03
				Chromium VI	2E+02	mg/kg	1.4E-05	mg/kg-day	N/A	N/A	N/A	1.6E-04	mg/kg-day	3.0E-03	mg/kg-day	5.4E-02
				Copper	2E+02	mg/kg	1.4E-05	mg/kg-day	N/A	N/A	N/A	1.6E-04	mg/kg-day	3.0E-02	mg/kg-day	5.4E-03
				Manganese	8E+02	mg/kg	6.8E-05	mg/kg-day	N/A	N/A	N/A	7.9E-04	mg/kg-day	7.0E-02	mg/kg-day	1.1E-02
				Mercury	2E+00	mg/kg	1.6E-07	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	3E+01	mg/kg	2.0E-06	mg/kg-day	N/A	N/A	N/A	2.4E-05	mg/kg-day	1.0E-03	mg/kg-day	2.4E-02
				Zinc	5E+02	mg/kg	4.3E-05	mg/kg-day	N/A	N/A	N/A	5.0E-04	mg/kg-day	3.0E-01	mg/kg-day	1.7E-03
			Exp. Route Total								2E-05					8E-01
			Dermal													
				Arsenic	2E+02	mg/kg	2.7E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.1E-06	3.2E-05	mg/kg-day	3.0E-04	mg/kg-day	1.1E-01
				Cadmium	2E+00	mg/kg	9.7E-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
			Exp. Route Total								4E-06					1E-01
		Exposure Point Total									3E-05					9E-01
		Station WS/WSS	Ingestion													
				Arsenic	1E+01	mg/kg	1.6E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.4E-06	1.9E-05	mg/kg-day	3.0E-04	mg/kg-day	6.3E-02
				Cadmium	4E-01	mg/kg	6.0E-08	mg/kg-day	N/A	N/A	N/A	7.0E-07	mg/kg-day	1.0E-03	mg/kg-day	7.0E-04
				Chromium VI	2E+01	mg/kg	3.0E-06	mg/kg-day	N/A	N/A	N/A	3.5E-05	mg/kg-day	3.0E-03	mg/kg-day	1.2E-02
				Copper	3E+01	mg/kg	5.5E-06	mg/kg-day	N/A	N/A	N/A	6.4E-05	mg/kg-day	3.0E-02	mg/kg-day	2.1E-03
				Manganese	2E+02	mg/kg	3.1E-05	mg/kg-day	N/A	N/A	N/A	3.6E-04	mg/kg-day	7.0E-02	mg/kg-day	5.1E-03
				Mercury	1E-01	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	1E+00	mg/kg	1.9E-07	mg/kg-day	N/A	N/A	N/A	2.3E-06	mg/kg-day	8.0E-05	mg/kg-day	2.8E-02
				Vanadium	2E+01	mg/kg	3.9E-06	mg/kg-day	N/A	N/A	N/A	4.5E-05	mg/kg-day	1.0E-03	mg/kg-day	4.5E-02
				Zinc	7E+01	mg/kg	1.2E-05	mg/kg-day	N/A	N/A	N/A	1.4E-04	mg/kg-day	3.0E-01	mg/kg-day	4.5E-04
			Exp. Route Total								2E-06					2E-01
			Dermal													
				Arsenic	1E+01	mg/kg	2.7E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.1E-07	3.2E-06	mg/kg-day	3.0E-04	mg/kg-day	1.1E-02
				Cadmium	4E-01	mg/kg	3.4E-09	mg/kg-day	N/A	N/A	N/A	3.9E-08	mg/kg-day	2.5E-05	mg/kg-day	1.6E-03
			Exp. Route Total								4E-07					1E-02
		Exposure Point Total									3E-06					2E-01

TABLE 3-7.4.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Soil (cont.)	Surface Soil (cont.)	Station CB-05	Ingestion													
				Arsenic	6E+01	mg/kg	9.7E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.5E-05	1.1E-04	mg/kg-day	3.0E-04	mg/kg-day	3.8E-01
				Cadmium	7E-01	mg/kg	1.1E-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
				Chromium VI	1E+02	mg/kg	2.2E-05	mg/kg-day	N/A	N/A	N/A	2.6E-04	mg/kg-day	3.0E-03	mg/kg-day	8.7E-02
				Copper	5E+01	mg/kg	8.2E-06	mg/kg-day	N/A	N/A	N/A	9.6E-05	mg/kg-day	3.0E-02	mg/kg-day	3.2E-03
				Manganese	2E+02	mg/kg	3.7E-05	mg/kg-day	N/A	N/A	N/A	4.3E-04	mg/kg-day	7.0E-02	mg/kg-day	6.1E-03
				Mercury	3E-01	mg/kg	4.7E-08	mg/kg-day	N/A	N/A	N/A	5.5E-07	mg/kg-day	1.0E-04	mg/kg-day	5.5E-03
				Thallium	2E+00	mg/kg	2.7E-07	mg/kg-day	N/A	N/A	N/A	3.1E-06	mg/kg-day	8.0E-05	mg/kg-day	3.9E-02
				Vanadium	3E+01	mg/kg	4.2E-06	mg/kg-day	N/A	N/A	N/A	4.9E-05	mg/kg-day	1.0E-03	mg/kg-day	4.9E-02
				Zinc	2E+02	mg/kg	2.7E-05	mg/kg-day	N/A	N/A	N/A	3.2E-04	mg/kg-day	3.0E-01	mg/kg-day	1.1E-03
			Exp. Route Total								1E-05					6E-01
			Dermal													
				Arsenic	6E+01	mg/kg	1.6E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.5E-06	1.9E-05	mg/kg-day	3.0E-04	mg/kg-day	6.4E-02
				Cadmium	7E-01	mg/kg	6.2E-09	mg/kg-day	N/A	N/A	N/A	7.3E-08	mg/kg-day	2.5E-05	mg/kg-day	2.9E-03
			Exp. Route Total								2E-06					7E-02
		Exposure Point Total									2E-05					6E-01
		Station DA	Ingestion													
				Arsenic	2E+02	mg/kg	2.4E-05	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.6E-05	2.8E-04	mg/kg-day	3.0E-04	mg/kg-day	9.3E-01
				Cadmium	5E+00	mg/kg	5.6E-07	mg/kg-day	N/A	N/A	N/A	6.6E-06	mg/kg-day	1.0E-03	mg/kg-day	6.6E-03
				Chromium VI	4E+02	mg/kg	4.8E-05	mg/kg-day	N/A	N/A	N/A	5.6E-04	mg/kg-day	3.0E-03	mg/kg-day	1.9E-01
				Copper	2E+02	mg/kg	3.0E-05	mg/kg-day	N/A	N/A	N/A	3.5E-04	mg/kg-day	3.0E-02	mg/kg-day	1.2E-02
				Manganese	3E+03	mg/kg	3.5E-04	mg/kg-day	N/A	N/A	N/A	4.1E-03	mg/kg-day	7.0E-02	mg/kg-day	5.8E-02
				Mercury	3E+00	mg/kg	4.2E-07	mg/kg-day	N/A	N/A	N/A	4.8E-06	mg/kg-day	1.0E-04	mg/kg-day	4.8E-02
				Thallium	3E+00	mg/kg	4.1E-07	mg/kg-day	N/A	N/A	N/A	4.8E-06	mg/kg-day	8.0E-05	mg/kg-day	5.9E-02
				Vanadium	4E+01	mg/kg	4.6E-06	mg/kg-day	N/A	N/A	N/A	5.4E-05	mg/kg-day	1.0E-03	mg/kg-day	5.4E-02
				Zinc	6E+02	mg/kg	7.2E-05	mg/kg-day	N/A	N/A	N/A	8.4E-04	mg/kg-day	3.0E-01	mg/kg-day	2.8E-03
			Exp. Route Total								4E-05					1E+00
			Dermal													
				Arsenic	2E+02	mg/kg	4.0E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.0E-06	4.7E-05	mg/kg-day	3.0E-04	mg/kg-day	1.6E-01
				Cadmium	5E+00	mg/kg	3.1E-08	mg/kg-day	N/A	N/A	N/A	3.7E-07	mg/kg-day	2.5E-05	mg/kg-day	1.5E-02
			Exp. Route Total								6E-06					2E-01
		Exposure Point Total									4E-05					2E+00

TABLE 3-7.4.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Soil (cont.)	Surface Soil (cont.)	Station KF	Ingestion													
				Arsenic	5E+01	mg/kg	5.6E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	8.4E-06	6.5E-05	mg/kg-day	3.0E-04	mg/kg-day	2.2E-01
				Cadmium	1E+00	mg/kg	1.7E-07	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	1.0E-03	mg/kg-day	2.0E-03
				Chromium VI	1E+02	mg/kg	1.5E-05	mg/kg-day	N/A	N/A	N/A	1.7E-04	mg/kg-day	3.0E-03	mg/kg-day	5.7E-02
				Copper	1E+02	mg/kg	1.3E-05	mg/kg-day	N/A	N/A	N/A	1.5E-04	mg/kg-day	3.0E-02	mg/kg-day	5.1E-03
				Manganese	8E+02	mg/kg	1.0E-04	mg/kg-day	N/A	N/A	N/A	1.2E-03	mg/kg-day	7.0E-02	mg/kg-day	1.7E-02
				Mercury	7E-01	mg/kg	8.4E-08	mg/kg-day	N/A	N/A	N/A	9.8E-07	mg/kg-day	1.0E-04	mg/kg-day	9.8E-03
				Vanadium	3E+01	mg/kg	3.6E-06	mg/kg-day	N/A	N/A	N/A	4.1E-05	mg/kg-day	1.0E-03	mg/kg-day	4.1E-02
				Zinc	4E+02	mg/kg	4.8E-05	mg/kg-day	N/A	N/A	N/A	5.6E-04	mg/kg-day	3.0E-01	mg/kg-day	1.9E-03
			Exp. Route Total								8E-06					4E-01
			Dermal													
				Arsenic	5E+01	mg/kg	9.4E-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+00	mg/kg	9.6E-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
			Exp. Route Total								1E-06					4E-02
		Exposure Point Total									1E-05					4E-01
		Station 07/DP	Ingestion													
				Arsenic	4E+01	mg/kg	5.4E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	8.2E-06	6.3E-05	mg/kg-day	3.0E-04	mg/kg-day	2.1E-01
				Cadmium	2E-01	mg/kg	2.3E-08	mg/kg-day	N/A	N/A	N/A	2.7E-07	mg/kg-day	1.0E-03	mg/kg-day	2.7E-04
				Chromium VI	1E+02	mg/kg	1.7E-05	mg/kg-day	N/A	N/A	N/A	2.0E-04	mg/kg-day	3.0E-03	mg/kg-day	6.7E-02
				Copper	1E+02	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
				Manganese	3E+02	mg/kg	4.0E-05	mg/kg-day	N/A	N/A	N/A	4.7E-04	mg/kg-day	7.0E-02	mg/kg-day	6.7E-03
				Mercury	1E+00	mg/kg	1.2E-07	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	1.0E-04	mg/kg-day	1.4E-02
				Thallium	2E+00	mg/kg	2.3E-07	mg/kg-day	N/A	N/A	N/A	2.7E-06	mg/kg-day	8.0E-05	mg/kg-day	3.3E-02
				Vanadium	3E+01	mg/kg	3.8E-06	mg/kg-day	N/A	N/A	N/A	4.5E-05	mg/kg-day	1.0E-03	mg/kg-day	4.5E-02
				Zinc	2E+04	mg/kg	2.3E-03	mg/kg-day	N/A	N/A	N/A	2.7E-02	mg/kg-day	3.0E-01	mg/kg-day	9.0E-02
			Exp. Route Total								8E-06					5E-01
			Dermal													
				Arsenic	4E+01	mg/kg	9.1E-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	3.6E-02
				Cadmium	2E-01	mg/kg	1.3E-09	mg/kg-day	N/A	N/A	N/A	1.5E-08	mg/kg-day	2.5E-05	mg/kg-day	6.0E-04
			Exp. Route Total								1E-06					4E-02
		Exposure Point Total									1E-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 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	Surface Water	Station NR (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	3.5E-11	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	3.2E-10	1.2E-09	mg/kg-day	1.3E-05	mg/kg-day	9.4E-05
				Arsenic	5E+01	ug/L	8.8E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-08	3.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.0E-03
				Cadmium	4E-01	ug/L	8.2E-11	mg/kg-day	N/A	N/A	N/A	2.9E-09	mg/kg-day	2.5E-05	mg/kg-day	1.1E-04
				Chromium VI	6E+01	ug/L	2.2E-08	mg/kg-day	N/A	N/A	N/A	7.8E-07	mg/kg-day	7.5E-05	mg/kg-day	1.0E-02
				Lead												
				Manganese	6E+02	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.9E-06	mg/kg-day	2.8E-03	mg/kg-day	1.4E-03
				Mercury	6E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	4.1E-09	mg/kg-day	2.1E-05	mg/kg-day	1.9E-04
			Exp. Route Total								1E-08					1E-02
		Exposure Point Total									1E-08					1E-02
		Station 14 (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	3.5E-11	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	3.2E-10	1.2E-09	mg/kg-day	1.3E-05	mg/kg-day	9.4E-05
				Arsenic	5E+01	ug/L	8.8E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-08	3.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.0E-03
				Cadmium	4E-01	ug/L	8.2E-11	mg/kg-day	N/A	N/A	N/A	2.9E-09	mg/kg-day	2.5E-05	mg/kg-day	1.1E-04
				Chromium VI	6E+01	ug/L	2.2E-08	mg/kg-day	N/A	N/A	N/A	7.8E-07	mg/kg-day	7.5E-05	mg/kg-day	1.0E-02
				Lead												
				Manganese	6E+02	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.9E-06	mg/kg-day	2.8E-03	mg/kg-day	1.4E-03
				Mercury	6E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	4.1E-09	mg/kg-day	2.1E-05	mg/kg-day	1.9E-04
			Exp. Route Total								1E-08					1E-02
		Exposure Point Total									1E-08					1E-02
		Station 22/TT-22 (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	3.5E-11	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	3.2E-10	1.2E-09	mg/kg-day	1.3E-05	mg/kg-day	9.4E-05
				Arsenic	5E+01	ug/L	8.8E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-08	3.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.0E-03
				Cadmium	4E-01	ug/L	8.2E-11	mg/kg-day	N/A	N/A	N/A	2.9E-09	mg/kg-day	2.5E-05	mg/kg-day	1.1E-04
				Chromium VI	6E+01	ug/L	2.2E-08	mg/kg-day	N/A	N/A	N/A	7.8E-07	mg/kg-day	7.5E-05	mg/kg-day	1.0E-02
				Lead												
				Manganese	6E+02	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.9E-06	mg/kg-day	2.8E-03	mg/kg-day	1.4E-03
				Mercury	6E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	4.1E-09	mg/kg-day	2.1E-05	mg/kg-day	1.9E-04
			Exp. Route Total								1E-08					1E-02
		Exposure Point Total									1E-08					1E-02

TABLE 3-7.4.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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 (cont.)	Surface Water (cont.)	Station 13/TT-27 (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	3.5E-11	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	3.2E-10	1.2E-09	mg/kg-day	1.3E-05	mg/kg-day	9.4E-05
				Arsenic	5E+01	ug/L	8.8E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-08	3.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.0E-03
				Cadmium	4E-01	ug/L	8.2E-11	mg/kg-day	N/A	N/A	N/A	2.9E-09	mg/kg-day	2.5E-05	mg/kg-day	1.1E-04
				Chromium VI	6E+01	ug/L	2.2E-08	mg/kg-day	N/A	N/A	N/A	7.8E-07	mg/kg-day	7.5E-05	mg/kg-day	1.0E-02
				Lead												
				Manganese	6E+02	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.9E-06	mg/kg-day	2.8E-03	mg/kg-day	1.4E-03
				Mercury	6E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	4.1E-09	mg/kg-day	2.1E-05	mg/kg-day	1.9E-04
			Exp. Route Total								1E-08					1E-02
		Exposure Point Total									1E-08					1E-02
		Station WH (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	3.5E-11	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	3.2E-10	1.2E-09	mg/kg-day	1.3E-05	mg/kg-day	9.4E-05
				Arsenic	5E+01	ug/L	8.8E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-08	3.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.0E-03
				Cadmium	4E-01	ug/L	8.2E-11	mg/kg-day	N/A	N/A	N/A	2.9E-09	mg/kg-day	2.5E-05	mg/kg-day	1.1E-04
				Chromium VI	6E+01	ug/L	2.2E-08	mg/kg-day	N/A	N/A	N/A	7.8E-07	mg/kg-day	7.5E-05	mg/kg-day	1.0E-02
				Lead												
				Manganese	6E+02	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.9E-06	mg/kg-day	2.8E-03	mg/kg-day	1.4E-03
				Mercury	6E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	4.1E-09	mg/kg-day	2.1E-05	mg/kg-day	1.9E-04
			Exp. Route Total								1E-08					1E-02
		Exposure Point Total									1E-08					1E-02
		Station NT-1 (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	3.5E-11	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	3.2E-10	1.2E-09	mg/kg-day	1.3E-05	mg/kg-day	9.4E-05
				Arsenic	5E+01	ug/L	8.8E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-08	3.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.0E-03
				Cadmium	4E-01	ug/L	8.2E-11	mg/kg-day	N/A	N/A	N/A	2.9E-09	mg/kg-day	2.5E-05	mg/kg-day	1.1E-04
				Chromium VI	6E+01	ug/L	2.2E-08	mg/kg-day	N/A	N/A	N/A	7.8E-07	mg/kg-day	7.5E-05	mg/kg-day	1.0E-02
				Lead												
				Manganese	6E+02	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.9E-06	mg/kg-day	2.8E-03	mg/kg-day	1.4E-03
				Mercury	6E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	4.1E-09	mg/kg-day	2.1E-05	mg/kg-day	1.9E-04
			Exp. Route Total								1E-08					1E-02
		Exposure Point Total									1E-08					1E-02

TABLE 3-7.4.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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 (cont.)	Surface Water (cont.)	Station NT-2 (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	3.5E-11	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	3.2E-10	1.2E-09	mg/kg-day	1.3E-05	mg/kg-day	9.4E-05
				Arsenic	5E+01	ug/L	8.8E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-08	3.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.0E-03
				Cadmium	4E-01	ug/L	8.2E-11	mg/kg-day	N/A	N/A	N/A	2.9E-09	mg/kg-day	2.5E-05	mg/kg-day	1.1E-04
				Chromium VI	6E+01	ug/L	2.2E-08	mg/kg-day	N/A	N/A	N/A	7.8E-07	mg/kg-day	7.5E-05	mg/kg-day	1.0E-02
				Lead												
				Manganese	6E+02	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.9E-06	mg/kg-day	2.8E-03	mg/kg-day	1.4E-03
				Mercury	6E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	4.1E-09	mg/kg-day	2.1E-05	mg/kg-day	1.9E-04
			Exp. Route Total								1E-08					1E-02
		Exposure Point Total									1E-08					1E-02
		Station NT-3 (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	3.5E-11	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	3.2E-10	1.2E-09	mg/kg-day	1.3E-05	mg/kg-day	9.4E-05
				Arsenic	5E+01	ug/L	8.8E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-08	3.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.0E-03
				Cadmium	4E-01	ug/L	8.2E-11	mg/kg-day	N/A	N/A	N/A	2.9E-09	mg/kg-day	2.5E-05	mg/kg-day	1.1E-04
				Chromium VI	6E+01	ug/L	2.2E-08	mg/kg-day	N/A	N/A	N/A	7.8E-07	mg/kg-day	7.5E-05	mg/kg-day	1.0E-02
				Lead												
				Manganese	6E+02	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.9E-06	mg/kg-day	2.8E-03	mg/kg-day	1.4E-03
				Mercury	6E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	4.1E-09	mg/kg-day	2.1E-05	mg/kg-day	1.9E-04
			Exp. Route Total								1E-08					1E-02
		Exposure Point Total									1E-08					1E-02
		Station WG (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	3.5E-11	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	3.2E-10	1.2E-09	mg/kg-day	1.3E-05	mg/kg-day	9.4E-05
				Arsenic	5E+01	ug/L	8.8E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-08	3.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.0E-03
				Cadmium	4E-01	ug/L	8.2E-11	mg/kg-day	N/A	N/A	N/A	2.9E-09	mg/kg-day	2.5E-05	mg/kg-day	1.1E-04
				Chromium VI	6E+01	ug/L	2.2E-08	mg/kg-day	N/A	N/A	N/A	7.8E-07	mg/kg-day	7.5E-05	mg/kg-day	1.0E-02
				Lead												
				Manganese	6E+02	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.9E-06	mg/kg-day	2.8E-03	mg/kg-day	1.4E-03
				Mercury	6E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	4.1E-09	mg/kg-day	2.1E-05	mg/kg-day	1.9E-04
			Exp. Route Total								1E-08					1E-02
		Exposure Point Total									1E-08					1E-02

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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 (cont.)	Surface Water (cont.)	Station WW (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	3.5E-11	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	3.2E-10	1.2E-09	mg/kg-day	1.3E-05	mg/kg-day	9.4E-05
				Arsenic	5E+01	ug/L	8.8E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-08	3.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.0E-03
				Cadmium	4E-01	ug/L	8.2E-11	mg/kg-day	N/A	N/A	N/A	2.9E-09	mg/kg-day	2.5E-05	mg/kg-day	1.1E-04
				Chromium VI	6E+01	ug/L	2.2E-08	mg/kg-day	N/A	N/A	N/A	7.8E-07	mg/kg-day	7.5E-05	mg/kg-day	1.0E-02
				Lead												
				Manganese	6E+02	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.9E-06	mg/kg-day	2.8E-03	mg/kg-day	1.4E-03
				Mercury	6E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	4.1E-09	mg/kg-day	2.1E-05	mg/kg-day	1.9E-04
			Exp. Route Total								1E-08					1E-02
		Exposure Point Total									1E-08					1E-02
		Station JY (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	3.5E-11	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	3.2E-10	1.2E-09	mg/kg-day	1.3E-05	mg/kg-day	9.4E-05
				Arsenic	5E+01	ug/L	8.8E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-08	3.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.0E-03
				Cadmium	4E-01	ug/L	8.2E-11	mg/kg-day	N/A	N/A	N/A	2.9E-09	mg/kg-day	2.5E-05	mg/kg-day	1.1E-04
				Chromium VI	6E+01	ug/L	2.2E-08	mg/kg-day	N/A	N/A	N/A	7.8E-07	mg/kg-day	7.5E-05	mg/kg-day	1.0E-02
				Lead												
				Manganese	6E+02	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.9E-06	mg/kg-day	2.8E-03	mg/kg-day	1.4E-03
				Mercury	6E-01	ug/L	1.2E-10	mg/kg-day	N/A	N/A	N/A	4.1E-09	mg/kg-day	2.1E-05	mg/kg-day	1.9E-04
			Exp. Route Total								1E-08					1E-02
		Exposure Point Total									1E-08					1E-02
		Station WS/WSS (Reach 1)	Dermal	Heptachlor epoxide	2E-03	ug/L	1.0E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	9.5E-10	3.7E-09	mg/kg-day	1.3E-05	mg/kg-day	2.8E-04
				Arsenic	5E+01	ug/L	2.6E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.0E-08	9.2E-07	mg/kg-day	3.0E-04	mg/kg-day	3.1E-03
				Cadmium	4E-01	ug/L	2.5E-10	mg/kg-day	N/A	N/A	N/A	8.6E-09	mg/kg-day	2.5E-05	mg/kg-day	3.4E-04
				Chromium VI	6E+01	ug/L	6.7E-08	mg/kg-day	N/A	N/A	N/A	2.3E-06	mg/kg-day	7.5E-05	mg/kg-day	3.1E-02
				Lead												
				Manganese	6E+02	ug/L	3.3E-07	mg/kg-day	N/A	N/A	N/A	1.2E-05	mg/kg-day	2.8E-03	mg/kg-day	4.1E-03
				Mercury	6E-01	ug/L	3.5E-10	mg/kg-day	N/A	N/A	N/A	1.2E-08	mg/kg-day	2.1E-05	mg/kg-day	5.8E-04
			Exp. Route Total								4E-08					4E-02
		Exposure Point Total									4E-08					4E-02

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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 (cont.)	Surface Water (cont.)	Station TT-30 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	1.4E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	5.5E-09	4.8E-07	mg/kg-day	3.0E-04	mg/kg-day	1.6E-03
				Arsenic	2E+01	ug/L	3.0E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.5E-09	1.0E-07	mg/kg-day	3.0E-04	mg/kg-day	3.5E-04
				Cadmium	2E-01	ug/L	4.4E-11	mg/kg-day	N/A	N/A	N/A	1.5E-09	mg/kg-day	2.5E-05	mg/kg-day	6.1E-05
				Chromium VI	8E+00	ug/L	3.1E-08	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	7.5E-05	mg/kg-day	1.5E-03
				Lead												
				Manganese	7E+02	ug/L	1.4E-07	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	2.8E-03	mg/kg-day	1.7E-03
				Mercury	1E-01	ug/L	2.4E-11	mg/kg-day	N/A	N/A	N/A	8.2E-10	mg/kg-day	2.1E-05	mg/kg-day	3.9E-05
			Exp. Route Total								1E-08					5E-03
		Exposure Point Total									1E-08					5E-03
		Station TT-31 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	1.4E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	5.5E-09	4.8E-07	mg/kg-day	3.0E-04	mg/kg-day	1.6E-03
				Arsenic	2E+01	ug/L	3.0E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.5E-09	1.0E-07	mg/kg-day	3.0E-04	mg/kg-day	3.5E-04
				Cadmium	2E-01	ug/L	4.4E-11	mg/kg-day	N/A	N/A	N/A	1.5E-09	mg/kg-day	2.5E-05	mg/kg-day	6.1E-05
				Chromium VI	8E+00	ug/L	3.1E-09	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	7.5E-05	mg/kg-day	1.5E-03
				Lead												
				Manganese	7E+02	ug/L	1.4E-07	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	2.8E-03	mg/kg-day	1.7E-03
				Mercury	1E-01	ug/L	2.4E-11	mg/kg-day	N/A	N/A	N/A	8.2E-10	mg/kg-day	2.1E-05	mg/kg-day	3.9E-05
			Exp. Route Total								1E-08					5E-03
		Exposure Point Total									1E-08					5E-03
		Station CB-01 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	4.1E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.6E-08	1.4E-06	mg/kg-day	3.0E-04	mg/kg-day	4.8E-03
				Arsenic	2E+01	ug/L	8.9E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-08	3.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.0E-03
				Cadmium	2E-01	ug/L	1.3E-10	mg/kg-day	N/A	N/A	N/A	4.6E-09	mg/kg-day	2.5E-05	mg/kg-day	1.8E-04
				Chromium VI	8E+00	ug/L	9.3E-09	mg/kg-day	N/A	N/A	N/A	3.3E-07	mg/kg-day	7.5E-05	mg/kg-day	4.4E-03
				Lead												
				Manganese	7E+02	ug/L	4.1E-07	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	2.8E-03	mg/kg-day	5.1E-03
				Mercury	1E-01	ug/L	7.1E-11	mg/kg-day	N/A	N/A	N/A	2.5E-09	mg/kg-day	2.1E-05	mg/kg-day	1.2E-04
			Exp. Route Total								3E-08					2E-02
		Exposure Point Total									3E-08					2E-02

TABLE 3-7.4.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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 (cont.)	Surface Water (cont.)	Station CB-02 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	4.1E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.6E-08	1.4E-06	mg/kg-day	3.0E-04	mg/kg-day	4.8E-03
				Arsenic	2E+01	ug/L	8.9E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-08	3.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.0E-03
				Cadmium	2E-01	ug/L	1.3E-10	mg/kg-day	N/A	N/A	N/A	4.6E-09	mg/kg-day	2.5E-05	mg/kg-day	1.8E-04
				Chromium VI	8E+00	ug/L	9.3E-09	mg/kg-day	N/A	N/A	N/A	3.3E-07	mg/kg-day	7.5E-05	mg/kg-day	4.4E-03
				Lead												
				Manganese	7E+02	ug/L	4.1E-07	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	2.8E-03	mg/kg-day	5.1E-03
				Mercury	1E-01	ug/L	7.1E-11	mg/kg-day	N/A	N/A	N/A	2.5E-09	mg/kg-day	2.1E-05	mg/kg-day	1.2E-04
			Exp. Route Total								3E-08					2E-02
		Exposure Point Total									3E-08					2E-02
		Station CB-03 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	4.1E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.6E-08	1.4E-06	mg/kg-day	3.0E-04	mg/kg-day	4.8E-03
				Arsenic	2E+01	ug/L	8.9E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-08	3.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.0E-03
				Cadmium	2E-01	ug/L	1.3E-10	mg/kg-day	N/A	N/A	N/A	4.6E-09	mg/kg-day	2.5E-05	mg/kg-day	1.8E-04
				Chromium VI	8E+00	ug/L	9.3E-09	mg/kg-day	N/A	N/A	N/A	3.3E-07	mg/kg-day	7.5E-05	mg/kg-day	4.4E-03
				Lead												
				Manganese	7E+02	ug/L	4.1E-07	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	2.8E-03	mg/kg-day	5.1E-03
				Mercury	1E-01	ug/L	7.1E-11	mg/kg-day	N/A	N/A	N/A	2.5E-09	mg/kg-day	2.1E-05	mg/kg-day	1.2E-04
			Exp. Route Total								3E-08					2E-02
		Exposure Point Total									3E-08					2E-02
		Station CB-04 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	4.1E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.6E-08	1.4E-06	mg/kg-day	3.0E-04	mg/kg-day	4.8E-03
				Arsenic	2E+01	ug/L	8.9E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-08	3.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.0E-03
				Cadmium	2E-01	ug/L	1.3E-10	mg/kg-day	N/A	N/A	N/A	4.6E-09	mg/kg-day	2.5E-05	mg/kg-day	1.8E-04
				Chromium VI	8E+00	ug/L	9.3E-09	mg/kg-day	N/A	N/A	N/A	3.3E-07	mg/kg-day	7.5E-05	mg/kg-day	4.4E-03
				Lead												
				Manganese	7E+02	ug/L	4.1E-07	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	2.8E-03	mg/kg-day	5.1E-03
				Mercury	1E-01	ug/L	7.1E-11	mg/kg-day	N/A	N/A	N/A	2.5E-09	mg/kg-day	2.1E-05	mg/kg-day	1.2E-04
			Exp. Route Total								3E-08					2E-02
		Exposure Point Total									3E-08					2E-02

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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 (cont.)	Surface Water (cont.)	Station CB-06 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	4.1E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.6E-08	1.4E-06	mg/kg-day	3.0E-04	mg/kg-day	4.8E-03
				Arsenic	2E+01	ug/L	8.9E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-08	3.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.0E-03
				Cadmium	2E-01	ug/L	1.3E-10	mg/kg-day	N/A	N/A	N/A	4.6E-09	mg/kg-day	2.5E-05	mg/kg-day	1.8E-04
				Chromium VI	8E+00	ug/L	9.3E-09	mg/kg-day	N/A	N/A	N/A	3.3E-07	mg/kg-day	7.5E-05	mg/kg-day	4.4E-03
				Lead												
				Manganese	7E+02	ug/L	4.1E-07	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	2.8E-03	mg/kg-day	5.1E-03
				Mercury	1E-01	ug/L	7.1E-11	mg/kg-day	N/A	N/A	N/A	2.5E-09	mg/kg-day	2.1E-05	mg/kg-day	1.2E-04
			Exp. Route Total								3E-08					2E-02
		Exposure Point Total									3E-08					2E-02
		Station CB-07 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	1.4E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	5.5E-09	4.8E-07	mg/kg-day	3.0E-04	mg/kg-day	1.6E-03
				Arsenic	2E+01	ug/L	3.0E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.5E-09	1.0E-07	mg/kg-day	3.0E-04	mg/kg-day	3.5E-04
				Cadmium	2E-01	ug/L	4.4E-11	mg/kg-day	N/A	N/A	N/A	1.5E-09	mg/kg-day	2.5E-05	mg/kg-day	6.1E-05
				Chromium VI	8E+00	ug/L	3.1E-09	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	7.5E-05	mg/kg-day	1.5E-03
				Lead												
				Manganese	7E+02	ug/L	1.4E-07	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	2.8E-03	mg/kg-day	1.7E-03
				Mercury	1E-01	ug/L	2.4E-11	mg/kg-day	N/A	N/A	N/A	8.2E-10	mg/kg-day	2.1E-05	mg/kg-day	3.9E-05
			Exp. Route Total								1E-08					5E-03
		Exposure Point Total									1E-08					5E-03
		Station 16/TT-33 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	1.4E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	5.5E-09	4.8E-07	mg/kg-day	3.0E-04	mg/kg-day	1.6E-03
				Arsenic	2E+01	ug/L	3.0E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.5E-09	1.0E-07	mg/kg-day	3.0E-04	mg/kg-day	3.5E-04
				Cadmium	2E-01	ug/L	4.4E-11	mg/kg-day	N/A	N/A	N/A	1.5E-09	mg/kg-day	2.5E-05	mg/kg-day	6.1E-05
				Chromium VI	8E+00	ug/L	3.1E-09	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	7.5E-05	mg/kg-day	1.5E-03
				Lead												
				Manganese	7E+02	ug/L	1.4E-07	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	2.8E-03	mg/kg-day	1.7E-03
				Mercury	1E-01	ug/L	2.4E-11	mg/kg-day	N/A	N/A	N/A	8.2E-10	mg/kg-day	2.1E-05	mg/kg-day	3.9E-05
			Exp. Route Total								1E-08					5E-03
		Exposure Point Total									1E-08					5E-03

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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 (cont.)	Surface Water (cont.)	Station 09 (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	1.4E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	5.5E-09	4.8E-07	mg/kg-day	3.0E-04	mg/kg-day	1.6E-03
				Arsenic	2E+01	ug/L	3.0E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.5E-09	1.0E-07	mg/kg-day	3.0E-04	mg/kg-day	3.5E-04
				Cadmium	2E-01	ug/L	4.4E-11	mg/kg-day	N/A	N/A	N/A	1.5E-09	mg/kg-day	2.5E-05	mg/kg-day	6.1E-05
				Chromium VI	8E+00	ug/L	3.1E-09	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	7.5E-05	mg/kg-day	1.5E-03
				Lead												
				Manganese	7E+02	ug/L	1.4E-07	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	2.8E-03	mg/kg-day	1.7E-03
				Mercury	1E-01	ug/L	2.4E-11	mg/kg-day	N/A	N/A	N/A	8.2E-10	mg/kg-day	2.1E-05	mg/kg-day	3.9E-05
			Exp. Route Total								1E-08					5E-03
		Exposure Point Total									1E-08					5E-03
		Station DA (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	1.4E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	5.5E-09	4.8E-07	mg/kg-day	3.0E-04	mg/kg-day	1.6E-03
				Arsenic	2E+01	ug/L	3.0E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.5E-09	1.0E-07	mg/kg-day	3.0E-04	mg/kg-day	3.5E-04
				Cadmium	2E-01	ug/L	4.4E-11	mg/kg-day	N/A	N/A	N/A	1.5E-09	mg/kg-day	2.5E-05	mg/kg-day	6.1E-05
				Chromium VI	8E+00	ug/L	3.1E-09	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	7.5E-05	mg/kg-day	1.5E-03
				Lead												
				Manganese	7E+02	ug/L	1.4E-07	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	2.8E-03	mg/kg-day	1.7E-03
				Mercury	1E-01	ug/L	2.4E-11	mg/kg-day	N/A	N/A	N/A	8.2E-10	mg/kg-day	2.1E-05	mg/kg-day	3.9E-05
			Exp. Route Total								1E-08					5E-03
		Exposure Point Total									1E-08					5E-03
		Station AM (Upper Reach 2)	Dermal	Trichloroethene	2E+00	ug/L	1.4E-08	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	5.5E-09	4.8E-07	mg/kg-day	3.0E-04	mg/kg-day	1.6E-03
				Arsenic	2E+01	ug/L	3.0E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.5E-09	1.0E-07	mg/kg-day	3.0E-04	mg/kg-day	3.5E-04
				Cadmium	2E-01	ug/L	4.4E-11	mg/kg-day	N/A	N/A	N/A	1.5E-09	mg/kg-day	2.5E-05	mg/kg-day	6.1E-05
				Chromium VI	8E+00	ug/L	3.1E-09	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	7.5E-05	mg/kg-day	1.5E-03
				Lead												
				Manganese	7E+02	ug/L	1.4E-07	mg/kg-day	N/A	N/A	N/A	4.7E-06	mg/kg-day	2.8E-03	mg/kg-day	1.7E-03
				Mercury	1E-01	ug/L	2.4E-11	mg/kg-day	N/A	N/A	N/A	8.2E-10	mg/kg-day	2.1E-05	mg/kg-day	3.9E-05
			Exp. Route Total								1E-08					5E-03
		Exposure Point Total									1E-08					5E-03
		Station KF (Lower Reach 2)	Dermal	Arsenic	7E+00	ug/L	1.3E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.9E-09	4.5E-08	mg/kg-day	3.0E-04	mg/kg-day	1.5E-04
				Chromium VI	2E+00	ug/L	8.4E-10	mg/kg-day	N/A	N/A	N/A	2.9E-08	mg/kg-day	7.5E-05	mg/kg-day	3.9E-04
				Manganese	4E+02	ug/L	6.8E-08	mg/kg-day	N/A	N/A	N/A	2.4E-06	mg/kg-day	2.8E-03	mg/kg-day	8.5E-04
			Exp. Route Total								2E-09					1E-03
		Exposure Point Total									2E-09					1E-03

TABLE 3-7.4.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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 (cont.)	Surface Water (cont.)	Station 08 (Lower Reach 2)	Dermal	Arsenic	7E+00	ug/L	1.3E-09	mg/kg-day	1.5E+00	(mg/kg-day) [-1]	1.9E-09	4.5E-08	mg/kg-day	3.0E-04	mg/kg-day	1.5E-04
				Chromium VI	2E+00	ug/L	8.4E-10	mg/kg-day	N/A	N/A	N/A	2.9E-08	mg/kg-day	7.5E-05	mg/kg-day	3.9E-04
				Manganese	4E+02	ug/L	6.8E-08	mg/kg-day	N/A	N/A	N/A	2.4E-06	mg/kg-day	2.8E-03	mg/kg-day	8.5E-04
			Exp. Route Total								2E-09					1E-03
		Exposure Point Total									2E-09					1E-03
		Station 07/DP (Reach 3)	Dermal	Chromium VI	3E+00	ug/L	1.2E-09	mg/kg-day	N/A	N/A	N/A	4.1E-08	mg/kg-day	7.5E-05	mg/kg-day	5.5E-04
				Lead												
				Manganese	6E+02	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.9E-06	mg/kg-day	2.8E-03	mg/kg-day	1.4E-03
				Mercury	2E-01	ug/L	4.2E-11	mg/kg-day	N/A	N/A	N/A	1.5E-09	mg/kg-day	2.1E-05	mg/kg-day	7.0E-05
			Exp. Route Total								N/A					2E-03
		Exposure Point Total									N/A					2E-03
		Station LP (Reach 3)	Dermal	Chromium VI	3E+00	ug/L	1.2E-09	mg/kg-day	N/A	N/A	N/A	4.1E-08	mg/kg-day	7.5E-05	mg/kg-day	5.5E-04
				Lead												
				Manganese	6E+02	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.9E-06	mg/kg-day	2.8E-03	mg/kg-day	1.4E-03
				Mercury	2E-01	ug/L	4.2E-11	mg/kg-day	N/A	N/A	N/A	1.5E-09	mg/kg-day	2.1E-05	mg/kg-day	7.0E-05
			Exp. Route Total								N/A					2E-03
		Exposure Point Total									N/A					2E-03
		Station AS (Reach 3)	Dermal	Chromium VI	3E+00	ug/L	1.2E-09	mg/kg-day	N/A	N/A	N/A	4.1E-08	mg/kg-day	7.5E-05	mg/kg-day	5.5E-04
				Lead												
				Manganese	6E+02	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.9E-06	mg/kg-day	2.8E-03	mg/kg-day	1.4E-03
				Mercury	2E-01	ug/L	4.2E-11	mg/kg-day	N/A	N/A	N/A	1.5E-09	mg/kg-day	2.1E-05	mg/kg-day	7.0E-05
			Exp. Route Total								N/A					2E-03
		Exposure Point Total									N/A					2E-03
		Station 06 (Reach 4)	Dermal	Chromium VI	4E+00	ug/L	1.6E-09	mg/kg-day	N/A	N/A	N/A	5.7E-08	mg/kg-day	7.5E-05	mg/kg-day	7.6E-04
				Lead												
				Manganese	5E+02	ug/L	9.6E-08	mg/kg-day	N/A	N/A	N/A	3.4E-06	mg/kg-day	2.8E-03	mg/kg-day	1.2E-03
			Exp. Route Total								N/A					2E-03
		Exposure Point Total									N/A					2E-03

TABLE 3-7.4.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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 (cont.)	Surface Water (cont.)	Station 05 (Reach 5)	Dermal	Chloroform	1E+00	ug/L	3.5E-09	mg/kg-day	N/A	N/A	N/A	1.2E-07	mg/kg-day	1.0E-02	mg/kg-day	1.2E-05
				Tetrachloroethene	2E+00	ug/L	4.6E-08	mg/kg-day	5.4E-01	(mg/kg-day) $^{-1}$	2.5E-08	1.6E-06	mg/kg-day	1.0E-02	mg/kg-day	1.6E-04
				Chromium VI	9E-01	ug/L	3.2E-10	mg/kg-day	N/A	N/A	N/A	1.1E-08	mg/kg-day	7.5E-05	mg/kg-day	1.5E-04
				Manganese	3E+02	ug/L	6.1E-08	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	2.8E-03	mg/kg-day	7.6E-04
			Exp. Route Total								2E-08					1E-03
		Exposure Point Total									2E-08					1E-03
		Station 04 (Upper Reach 6)	Dermal	Arsenic	4E+00	ug/L	7.1E-10	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.1E-09	2.5E-08	mg/kg-day	3.0E-04	mg/kg-day	8.3E-05
				Chromium VI	2E+00	ug/L	6.5E-10	mg/kg-day	N/A	N/A	N/A	2.3E-08	mg/kg-day	7.5E-05	mg/kg-day	3.1E-04
				Lead												
				Manganese	2E+02	ug/L	4.0E-08	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	2.8E-03	mg/kg-day	5.0E-04
				Mercury	7E-02	ug/L	1.3E-11	mg/kg-day	N/A	N/A	N/A	4.6E-10	mg/kg-day	2.1E-05	mg/kg-day	2.2E-05
			Exp. Route Total								1E-09					9E-04
		Exposure Point Total									1E-09					9E-04
		Station 03 (Upper Reach 6)	Dermal	Arsenic	4E+00	ug/L	7.1E-10	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.1E-09	2.5E-08	mg/kg-day	3.0E-04	mg/kg-day	8.3E-05
				Chromium VI	2E+00	ug/L	6.5E-10	mg/kg-day	N/A	N/A	N/A	2.3E-08	mg/kg-day	7.5E-05	mg/kg-day	3.1E-04
				Lead												
				Manganese	2E+02	ug/L	4.0E-08	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	2.8E-03	mg/kg-day	5.0E-04
				Mercury	7E-02	ug/L	1.3E-11	mg/kg-day	N/A	N/A	N/A	4.6E-10	mg/kg-day	2.1E-05	mg/kg-day	2.2E-05
			Exp. Route Total								1E-09					9E-04
		Exposure Point Total									1E-09					9E-04
		Station 02 (Upper Reach 6)	Dermal	Arsenic	4E+00	ug/L	7.1E-10	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.1E-09	2.5E-08	mg/kg-day	3.0E-04	mg/kg-day	8.3E-05
				Chromium VI	2E+00	ug/L	6.5E-10	mg/kg-day	N/A	N/A	N/A	2.3E-08	mg/kg-day	7.5E-05	mg/kg-day	3.1E-04
				Lead												
				Manganese	2E+02	ug/L	4.0E-08	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	2.8E-03	mg/kg-day	5.0E-04
				Mercury	7E-02	ug/L	1.3E-11	mg/kg-day	N/A	N/A	N/A	4.6E-10	mg/kg-day	2.1E-05	mg/kg-day	2.2E-05
			Exp. Route Total								1E-09					9E-04
		Exposure Point Total									1E-09					9E-04

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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 (cont.)	Surface Water (cont.)	Station 01 (Lower Reach 6)	Ingestion													
				Arsenic	3E+00	ug/L	2.0E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.0E-09	7.1E-08	mg/kg-day	3.0E-04	mg/kg-day	2.4E-04
				Chromium VI	2E+00	ug/L	9.8E-10	mg/kg-day	N/A	N/A	N/A	3.4E-08	mg/kg-day	3.0E-03	mg/kg-day	1.1E-05
				Lead												
				Manganese	7E+01	ug/L	4.6E-08	mg/kg-day	N/A	N/A	N/A	1.6E-06	mg/kg-day	7.0E-02	mg/kg-day	2.3E-05
				Mercury	4E-02	ug/L	2.6E-11	mg/kg-day	N/A	N/A	N/A	9.1E-10	mg/kg-day	3.0E-04	mg/kg-day	3.0E-06
			Exp. Route Total								3E-09					3E-04
			Dermal													
				Arsenic	3E+00	ug/L	2.7E-10	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.0E-10	9.3E-09	mg/kg-day	3.0E-04	mg/kg-day	3.1E-05
				Chromium VI	2E+00	ug/L	2.6E-10	mg/kg-day	N/A	N/A	N/A	9.0E-09	mg/kg-day	7.5E-05	mg/kg-day	1.2E-04
				Lead												
				Manganese	7E+01	ug/L	6.1E-09	mg/kg-day	N/A	N/A	N/A	2.1E-07	mg/kg-day	2.8E-03	mg/kg-day	7.6E-05
				Mercury	4E-02	ug/L	3.4E-12	mg/kg-day	N/A	N/A	N/A	1.2E-10	mg/kg-day	2.1E-05	mg/kg-day	5.7E-06
			Exp. Route Total								4E-10					2E-04
		Exposure Point Total									3E-09					5E-04
	Exposure Medium Total										N/A					N/A
Sediment	Sediment	Station NR	Ingestion													
				Arsenic	2E+02	mg/kg	1.5E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.1E-06	5.1E-05	mg/kg-day	5.9E-04	mg/kg-day	8.6E-02
				Barium	6E+01	mg/kg	3.8E-07	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	7.0E-02	mg/kg-day	1.9E-04
				Cadmium	2E+00	mg/kg	1.5E-08	mg/kg-day	N/A	N/A	N/A	5.2E-07	mg/kg-day	1.0E-03	mg/kg-day	5.2E-04
				Chromium III	3E+02	mg/kg	1.7E-06	mg/kg-day	N/A	N/A	N/A	6.0E-05	mg/kg-day	1.5E+00	mg/kg-day	4.0E-05
				Copper	3E+02	mg/kg	2.1E-06	mg/kg-day	N/A	N/A	N/A	7.2E-05	mg/kg-day	3.0E-02	mg/kg-day	2.4E-03
				Lead												
				Manganese	2E+02	mg/kg	1.7E-06	mg/kg-day	N/A	N/A	N/A	5.9E-05	mg/kg-day	7.0E-02	mg/kg-day	8.4E-04
				Mercury	4E+00	mg/kg	3.1E-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
				Nickel	1E+01	mg/kg	9.5E-08	mg/kg-day	N/A	N/A	N/A	3.3E-06	mg/kg-day	2.0E-02	mg/kg-day	1.7E-04
				Vanadium	3E+01	mg/kg	2.1E-07	mg/kg-day	N/A	N/A	N/A	7.3E-06	mg/kg-day	1.0E-03	mg/kg-day	7.3E-03
				Zinc	5E+02	mg/kg	3.3E-06	mg/kg-day	N/A	N/A	N/A	1.2E-04	mg/kg-day	3.0E-01	mg/kg-day	3.8E-04
			Exp. Route Total								1E-06					1E-01
			Dermal													
				Arsenic	2E+02	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
				Cadmium	2E+00	mg/kg	1.7E-09	mg/kg-day	N/A	N/A	N/A	5.8E-08	mg/kg-day	2.5E-05	mg/kg-day	2.3E-03
			Exp. Route Total								7E-07					6E-02
		Exposure Point Total									2E-06					2E-01

TABLE 3-7.4.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station 14	Ingestion													
				Benzo(a)anthracene	1E+00	mg/kg	6.6E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.8E-09	2.3E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	9E-01	mg/kg	6.0E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.4E-08	2.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	9.8E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	7.1E-09	3.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	7.5E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	5.4E-10	2.6E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E+00	mg/kg	1.0E-08	mg/kg-day	N/A	N/A	N/A	3.6E-07	mg/kg-day	2.0E-02	mg/kg-day	1.8E-05
				Antimony	9E-01	mg/kg	6.2E-09	mg/kg-day	N/A	N/A	N/A	2.2E-07	mg/kg-day	4.0E-04	mg/kg-day	5.4E-04
				Arsenic	6E+01	mg/kg	4.2E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.2E-07	1.5E-05	mg/kg-day	5.9E-04	mg/kg-day	2.5E-02
				Barium	2E+01	mg/kg	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.8E-06	mg/kg-day	7.0E-02	mg/kg-day	5.4E-05
				Cadmium	6E-01	mg/kg	4.4E-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
				Chromium III	1E+02	mg/kg	7.1E-07	mg/kg-day	N/A	N/A	N/A	2.5E-05	mg/kg-day	1.5E+00	mg/kg-day	1.6E-05
				Copper	6E+01	mg/kg	3.9E-07	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	3.0E-02	mg/kg-day	4.5E-04
				Lead												
				Manganese	1E+02	mg/kg	9.0E-07	mg/kg-day	N/A	N/A	N/A	3.1E-05	mg/kg-day	7.0E-02	mg/kg-day	4.5E-04
				Mercury	6E-01	mg/kg	4.0E-09	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	1.0E-04	mg/kg-day	1.4E-03
				Nickel	7E+00	mg/kg	5.0E-08	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	2.0E-02	mg/kg-day	8.7E-05
				Thallium	5E-01	mg/kg	3.3E-09	mg/kg-day	N/A	N/A	N/A	1.2E-07	mg/kg-day	8.0E-05	mg/kg-day	1.5E-03
				Vanadium	1E+01	mg/kg	7.8E-08	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+02	mg/kg	1.5E-06	mg/kg-day	N/A	N/A	N/A	5.2E-05	mg/kg-day	3.0E-01	mg/kg-day	1.7E-04
			Exp. Route Total								4E-07					3E-02
			Dermal													
				Benzo(a)anthracene	1E+00	mg/kg	9.5E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	7.0E-09	3.3E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	9E-01	mg/kg	8.8E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	6.4E-08	3.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	1.4E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.0E-08	5.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	1.1E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	7.9E-10	3.8E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E+00	mg/kg	1.5E-08	mg/kg-day	N/A	N/A	N/A	5.2E-07	mg/kg-day	2.0E-02	mg/kg-day	2.6E-05
				Arsenic	6E+01	mg/kg	1.4E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.1E-07	4.9E-06	mg/kg-day	3.0E-04	mg/kg-day	1.6E-02
				Cadmium	6E-01	mg/kg	4.9E-10	mg/kg-day	N/A	N/A	N/A	1.7E-08	mg/kg-day	2.5E-05	mg/kg-day	6.8E-04
			Exp. Route Total								3E-07					2E-02
		Exposure Point Total									7E-07					5E-02

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station 22/TT-22	Ingestion													
				Tetrachloroethene	3E+00	mg/kg	1.9E-08	mg/kg-day	5.4E-01	(mg/kg-day) $^{-1}$	1.0E-08	6.6E-07	mg/kg-day	1.0E-02	mg/kg-day	6.6E-05
				Trichloroethene	7E-01	mg/kg	4.7E-09	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.9E-09	1.7E-07	mg/kg-day	3.0E-04	mg/kg-day	5.5E-04
				Benzo(a)anthracene	3E-01	mg/kg	2.0E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.5E-09	7.1E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	1.4E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	9.9E-09	4.7E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	4E-01	mg/kg	2.7E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.0E-09	9.3E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	4E-01	mg/kg	2.9E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	2.1E-10	1.0E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	4E-02	mg/kg	3.0E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.2E-09	1.0E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	2E-01	mg/kg	1.5E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.1E-09	5.2E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	4E-01	mg/kg	2.7E-09	mg/kg-day	N/A	N/A	N/A	9.5E-08	mg/kg-day	2.0E-02	mg/kg-day	4.7E-06
				Aroclor 1260	3E-02	mg/kg	2.0E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	2.0E-10	6.9E-09	mg/kg-day	2.0E-05	mg/kg-day	3.4E-04
				Antimony	7E+01	mg/kg	4.7E-07	mg/kg-day	N/A	N/A	N/A	1.7E-05	mg/kg-day	4.0E-04	mg/kg-day	4.1E-02
				Arsenic	8E+01	mg/kg	5.2E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	4.0E-07	1.8E-05	mg/kg-day	5.9E-04	mg/kg-day	3.1E-02
				Barium	5E+01	mg/kg	3.4E-07	mg/kg-day	N/A	N/A	N/A	1.2E-05	mg/kg-day	7.0E-02	mg/kg-day	1.7E-04
				Cadmium	1E+00	mg/kg	9.7E-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
				Chromium III	6E+01	mg/kg	4.4E-07	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	1.5E+00	mg/kg-day	1.0E-05
				Copper	3E+01	mg/kg	2.0E-07	mg/kg-day	N/A	N/A	N/A	7.0E-06	mg/kg-day	3.0E-02	mg/kg-day	2.3E-04
				Lead												
				Manganese	1E+02	mg/kg	7.9E-07	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	5E-01	mg/kg	3.2E-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
				Nickel	1E+01	mg/kg	7.7E-08	mg/kg-day	N/A	N/A	N/A	2.7E-06	mg/kg-day	2.0E-02	mg/kg-day	1.3E-04
				Vanadium	4E+01	mg/kg	2.8E-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	1E+02	mg/kg	6.5E-07	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	3.0E-01	mg/kg-day	7.6E-05
			Exp. Route Total								4E-07					9E-02
			Dermal													
				Benzo(a)anthracene	3E-01	mg/kg	3.0E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.2E-09	1.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	2.0E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.4E-08	6.9E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	4E-01	mg/kg	3.9E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.8E-09	1.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	4E-01	mg/kg	4.2E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	3.0E-10	1.5E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	4E-02	mg/kg	4.3E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.2E-09	1.5E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	2E-01	mg/kg	2.2E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.6E-09	7.6E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	4E-01	mg/kg	3.9E-09	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	2.0E-02	mg/kg-day	6.9E-06
				Aroclor 1260	3E-02	mg/kg	3.1E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	3.1E-10	1.1E-08	mg/kg-day	2.0E-05	mg/kg-day	5.4E-04
				Arsenic	8E+01	mg/kg	1.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.6E-07	6.2E-06	mg/kg-day	3.0E-04	mg/kg-day	2.1E-02
				Cadmium	1E+00	mg/kg	1.1E-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-07					2E-02
		Exposure Point Total									7E-07					1E-01

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station 13/TT-27	Ingestion													
				Trichloroethene	2E-02	mg/kg	1.5E-10	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	5.9E-11	5.2E-09	mg/kg-day	3.0E-04	mg/kg-day	1.7E-05
				Benzo(a)anthracene	1E+00	mg/kg	8.7E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.3E-09	3.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	9.2E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	6.7E-08	3.2E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E+00	mg/kg	1.7E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.3E-08	6.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E+00	mg/kg	1.5E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.1E-09	5.4E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	2.1E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.6E-08	7.4E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	9E-01	mg/kg	6.0E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.4E-09	2.1E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E+00	mg/kg	1.1E-08	mg/kg-day	N/A	N/A	N/A	4.0E-07	mg/kg-day	2.0E-02	mg/kg-day	2.0E-05
				Aroclor 1254	2E-02	mg/kg	1.1E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	1.1E-10	3.8E-09	mg/kg-day	2.0E-05	mg/kg-day	1.9E-04
				Aroclor 1260	2E-01	mg/kg	1.1E-09	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	1.1E-09	3.9E-08	mg/kg-day	2.0E-05	mg/kg-day	1.9E-03
				Antimony	1E+01	mg/kg	8.9E-08	mg/kg-day	N/A	N/A	N/A	3.1E-06	mg/kg-day	4.0E-04	mg/kg-day	7.8E-03
				Arsenic	4E+03	mg/kg	2.5E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.9E-05	8.6E-04	mg/kg-day	5.9E-04	mg/kg-day	1.5E+00
				Barium	2E+02	mg/kg	1.6E-06	mg/kg-day	N/A	N/A	N/A	5.7E-05	mg/kg-day	7.0E-02	mg/kg-day	8.2E-04
				Cadmium	9E+00	mg/kg	6.4E-08	mg/kg-day	N/A	N/A	N/A	2.2E-06	mg/kg-day	1.0E-03	mg/kg-day	2.2E-03
				Chromium III	6E+02	mg/kg	3.8E-06	mg/kg-day	N/A	N/A	N/A	1.3E-04	mg/kg-day	1.5E+00	mg/kg-day	8.9E-05
				Copper	2E+03	mg/kg	1.1E-05	mg/kg-day	N/A	N/A	N/A	3.9E-04	mg/kg-day	3.0E-02	mg/kg-day	1.3E-02
				Lead												
				Manganese	8E+02	mg/kg	5.2E-06	mg/kg-day	N/A	N/A	N/A	1.8E-04	mg/kg-day	7.0E-02	mg/kg-day	2.6E-03
				Mercury	5E+00	mg/kg	3.5E-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
				Nickel	3E+01	mg/kg	2.2E-07	mg/kg-day	N/A	N/A	N/A	7.7E-06	mg/kg-day	2.0E-02	mg/kg-day	3.8E-04
				Thallium	1E+00	mg/kg	7.5E-09	mg/kg-day	N/A	N/A	N/A	2.6E-07	mg/kg-day	8.0E-05	mg/kg-day	3.3E-03
				Vanadium	9E+01	mg/kg	5.9E-07	mg/kg-day	N/A	N/A	N/A	2.1E-05	mg/kg-day	1.0E-03	mg/kg-day	2.1E-02
				Zinc	2E+03	mg/kg	1.5E-05	mg/kg-day	N/A	N/A	N/A	5.3E-04	mg/kg-day	3.0E-01	mg/kg-day	1.8E-03
			Exp. Route Total								2E-05					2E+00
			Dermal													
				Benzo(a)anthracene	1E+00	mg/kg	1.3E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.2E-09	4.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	1.3E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	9.7E-08	4.7E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E+00	mg/kg	2.5E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.9E-08	8.9E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E+00	mg/kg	2.2E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.6E-09	7.8E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	3.1E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.3E-08	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	9E-01	mg/kg	8.7E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.3E-09	3.0E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E+00	mg/kg	1.7E-08	mg/kg-day	N/A	N/A	N/A	5.8E-07	mg/kg-day	2.0E-02	mg/kg-day	2.9E-05
				Aroclor 1254	2E-02	mg/kg	1.7E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	1.7E-10	6.0E-09	mg/kg-day	2.0E-05	mg/kg-day	3.0E-04
				Aroclor 1260	2E-01	mg/kg	1.7E-09	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	1.7E-09	6.1E-08	mg/kg-day	2.0E-05	mg/kg-day	3.0E-03
				Arsenic	4E+03	mg/kg	8.3E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.2E-05	2.9E-04	mg/kg-day	3.0E-04	mg/kg-day	9.7E-01
				Cadmium	9E+00	mg/kg	7.1E-09	mg/kg-day	N/A	N/A	N/A	2.5E-07	mg/kg-day	2.5E-05	mg/kg-day	1.0E-02
			Exp. Route Total								1E-05					1E+00
		Exposure Point Total									3E-05					3E+00

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station WH	Ingestion													
				Trichloroethene	5E-02	mg/kg	3.6E-10	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.4E-10	1.3E-08	mg/kg-day	3.0E-04	mg/kg-day	4.2E-05
				Benzo(a)anthracene	4E-01	mg/kg	2.9E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.1E-09	1.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	6.8E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	5.0E-08	2.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	9E-01	mg/kg	6.1E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.5E-09	2.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	7E-01	mg/kg	4.7E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	3.4E-10	1.6E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	2.1E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.5E-08	7.4E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	5E-01	mg/kg	3.5E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.6E-09	1.2E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	4E-01	mg/kg	3.0E-09	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	2.0E-02	mg/kg-day	5.2E-06
				Aroclor 1260	4E-02	mg/kg	2.8E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	2.8E-10	9.8E-09	mg/kg-day	2.0E-05	mg/kg-day	4.9E-04
				Antimony	3E+01	mg/kg	2.4E-07	mg/kg-day	N/A	N/A	N/A	8.3E-06	mg/kg-day	4.0E-04	mg/kg-day	2.1E-02
				Arsenic	2E+03	mg/kg	1.3E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.0E-05	4.5E-04	mg/kg-day	5.9E-04	mg/kg-day	7.7E-01
				Barium	9E+01	mg/kg	6.3E-07	mg/kg-day	N/A	N/A	N/A	2.2E-05	mg/kg-day	7.0E-02	mg/kg-day	3.1E-04
				Cadmium	1E+01	mg/kg	7.3E-08	mg/kg-day	N/A	N/A	N/A	2.6E-06	mg/kg-day	1.0E-03	mg/kg-day	2.6E-03
				Chromium III	1E+03	mg/kg	8.0E-06	mg/kg-day	N/A	N/A	N/A	2.8E-04	mg/kg-day	1.5E+00	mg/kg-day	1.9E-04
				Copper	1E+03	mg/kg	8.1E-06	mg/kg-day	N/A	N/A	N/A	2.8E-04	mg/kg-day	3.0E-02	mg/kg-day	9.4E-03
				Lead												
				Manganese	5E+02	mg/kg	3.5E-06	mg/kg-day	N/A	N/A	N/A	1.2E-04	mg/kg-day	7.0E-02	mg/kg-day	1.7E-03
				Mercury	3E+01	mg/kg	1.9E-07	mg/kg-day	N/A	N/A	N/A	6.5E-06	mg/kg-day	1.0E-04	mg/kg-day	6.5E-02
				Nickel	4E+01	mg/kg	2.8E-07	mg/kg-day	N/A	N/A	N/A	9.6E-06	mg/kg-day	2.0E-02	mg/kg-day	4.8E-04
				Thallium	8E-01	mg/kg	5.2E-09	mg/kg-day	N/A	N/A	N/A	1.8E-07	mg/kg-day	8.0E-05	mg/kg-day	2.3E-03
				Vanadium	1E+02	mg/kg	6.6E-07	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	1.0E-03	mg/kg-day	2.3E-02
				Zinc	2E+03	mg/kg	1.6E-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
				Chromium VI	2E+00	mg/kg	1.0E-08	mg/kg-day	N/A	N/A	N/A	3.6E-07	mg/kg-day	3.0E-03	mg/kg-day	1.2E-04
			Exp. Route Total								1E-05					9E-01
			Dermal													
				Benzo(a)anthracene	4E-01	mg/kg	4.2E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.1E-09	1.5E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E+00	mg/kg	9.9E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	7.2E-08	3.5E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	9E-01	mg/kg	8.9E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.5E-09	3.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	7E-01	mg/kg	6.8E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	5.0E-10	2.4E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	3E-01	mg/kg	3.1E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.2E-08	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	5E-01	mg/kg	5.1E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.7E-09	1.8E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	4E-01	mg/kg	4.3E-09	mg/kg-day	N/A	N/A	N/A	1.5E-07	mg/kg-day	2.0E-02	mg/kg-day	7.5E-06
				Aroclor 1260	4E-02	mg/kg	4.4E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	4.4E-10	1.5E-08	mg/kg-day	2.0E-05	mg/kg-day	7.7E-04
				Arsenic	2E+03	mg/kg	4.4E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.5E-06	1.5E-04	mg/kg-day	3.0E-04	mg/kg-day	5.1E-01
				Cadmium	1E+01	mg/kg	8.2E-09	mg/kg-day	N/A	N/A	N/A	2.9E-07	mg/kg-day	2.5E-05	mg/kg-day	1.1E-02
			Exp. Route Total								7E-06					5E-01
		Exposure Point Total									2E-05					1E+00

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station NT-1	Ingestion													
				Trichloroethene	5E-02	mg/kg	3.2E-10	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.3E-10	1.1E-08	mg/kg-day	3.0E-04	mg/kg-day	3.8E-05
				Benzo(a)anthracene	5E-01	mg/kg	3.4E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.5E-09	1.2E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	9E-01	mg/kg	6.0E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.4E-08	2.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	9.7E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	7.1E-09	3.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	6E-01	mg/kg	3.8E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	2.8E-10	1.3E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	2E-01	mg/kg	1.3E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	9.3E-09	4.5E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	mg/kg	2.1E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.6E-09	7.5E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	3E-01	mg/kg	2.1E-09	mg/kg-day	N/A	N/A	N/A	7.4E-08	mg/kg-day	2.0E-02	mg/kg-day	3.7E-06
				Aroclor 1260	3E-02	mg/kg	1.9E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	1.9E-10	6.7E-09	mg/kg-day	2.0E-05	mg/kg-day	3.3E-04
				Antimony	1E+01	mg/kg	9.8E-08	mg/kg-day	N/A	N/A	N/A	3.4E-06	mg/kg-day	4.0E-04	mg/kg-day	8.6E-03
				Arsenic	2E+03	mg/kg	1.7E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.3E-05	5.9E-04	mg/kg-day	5.9E-04	mg/kg-day	1.0E+00
				Barium	1E+02	mg/kg	7.3E-07	mg/kg-day	N/A	N/A	N/A	2.5E-05	mg/kg-day	7.0E-02	mg/kg-day	3.6E-04
				Cadmium	9E+00	mg/kg	5.8E-08	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	1.0E-03	mg/kg-day	2.0E-03
				Chromium III	2E+03	mg/kg	1.0E-05	mg/kg-day	N/A	N/A	N/A	3.6E-04	mg/kg-day	1.5E+00	mg/kg-day	2.4E-04
				Copper	8E+02	mg/kg	5.7E-06	mg/kg-day	N/A	N/A	N/A	2.0E-04	mg/kg-day	3.0E-02	mg/kg-day	6.6E-03
				Lead												
				Manganese	1E+03	mg/kg	7.2E-06	mg/kg-day	N/A	N/A	N/A	2.5E-04	mg/kg-day	7.0E-02	mg/kg-day	3.6E-03
				Mercury	5E+00	mg/kg	3.3E-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
				Nickel	4E+01	mg/kg	2.8E-07	mg/kg-day	N/A	N/A	N/A	9.7E-06	mg/kg-day	2.0E-02	mg/kg-day	4.9E-04
				Thallium	1E+01	mg/kg	7.5E-08	mg/kg-day	N/A	N/A	N/A	2.6E-06	mg/kg-day	8.0E-05	mg/kg-day	3.3E-02
				Vanadium	7E+01	mg/kg	4.7E-07	mg/kg-day	N/A	N/A	N/A	1.6E-05	mg/kg-day	1.0E-03	mg/kg-day	1.6E-02
				Zinc	2E+03	mg/kg	1.1E-05	mg/kg-day	N/A	N/A	N/A	3.9E-04	mg/kg-day	3.0E-01	mg/kg-day	1.3E-03
				Chromium VI	2E+00	mg/kg	1.4E-08	mg/kg-day	N/A	N/A	N/A	4.7E-07	mg/kg-day	3.0E-03	mg/kg-day	1.6E-04
			Exp. Route Total								1E-05					1E+00
			Dermal													
				Benzo(a)anthracene	5E-01	mg/kg	5.0E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.7E-09	1.8E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	9E-01	mg/kg	8.7E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	6.3E-08	3.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	1.4E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.0E-08	5.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	6E-01	mg/kg	5.5E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	4.0E-10	1.9E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	2E-01	mg/kg	1.9E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.4E-08	6.5E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	mg/kg	3.1E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.3E-09	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	3E-01	mg/kg	3.1E-09	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	2.0E-02	mg/kg-day	5.4E-06
				Aroclor 1260	3E-02	mg/kg	3.0E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	3.0E-10	1.0E-08	mg/kg-day	2.0E-05	mg/kg-day	5.2E-04
				Arsenic	2E+03	mg/kg	5.6E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	8.5E-06	2.0E-04	mg/kg-day	3.0E-04	mg/kg-day	6.6E-01
				Cadmium	9E+00	mg/kg	6.5E-09	mg/kg-day	N/A	N/A	N/A	2.3E-07	mg/kg-day	2.5E-05	mg/kg-day	9.1E-03
			Exp. Route Total								9E-06					7E-01
		Exposure Point Total									2E-05					2E+00

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station NT-2	Ingestion													
				Trichloroethene	4E-02	mg/kg	2.4E-10	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	9.6E-11	8.4E-09	mg/kg-day	3.0E-04	mg/kg-day	2.8E-05
				Benzo(a)anthracene	4E-01	mg/kg	2.9E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.1E-09	1.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	4E-01	mg/kg	2.4E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.8E-08	8.5E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	7.8E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.7E-09	2.7E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	7E-01	mg/kg	5.0E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	3.6E-10	1.7E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	2E-01	mg/kg	1.7E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.2E-08	5.8E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	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
				Phenanthrene	5E-01	mg/kg	3.7E-09	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	2.0E-02	mg/kg-day	6.5E-06
				Aroclor 1260	4E-02	mg/kg	2.4E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	2.4E-10	8.4E-09	mg/kg-day	2.0E-05	mg/kg-day	4.2E-04
				Antimony	2E+01	mg/kg	1.0E-07	mg/kg-day	N/A	N/A	N/A	3.6E-06	mg/kg-day	4.0E-04	mg/kg-day	9.0E-03
				Arsenic	2E+03	mg/kg	1.2E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	9.2E-06	4.2E-04	mg/kg-day	5.9E-04	mg/kg-day	7.1E-01
				Barium	9E+01	mg/kg	5.9E-07	mg/kg-day	N/A	N/A	N/A	2.1E-05	mg/kg-day	7.0E-02	mg/kg-day	2.9E-04
				Cadmium	6E+00	mg/kg	4.3E-08	mg/kg-day	N/A	N/A	N/A	1.5E-06	mg/kg-day	1.0E-03	mg/kg-day	1.5E-03
				Chromium III	9E+02	mg/kg	6.3E-06	mg/kg-day	N/A	N/A	N/A	2.2E-04	mg/kg-day	1.5E+00	mg/kg-day	1.5E-04
				Copper	8E+02	mg/kg	5.1E-06	mg/kg-day	N/A	N/A	N/A	1.8E-04	mg/kg-day	3.0E-02	mg/kg-day	6.0E-03
				Lead												
				Manganese	9E+02	mg/kg	6.1E-06	mg/kg-day	N/A	N/A	N/A	2.1E-04	mg/kg-day	7.0E-02	mg/kg-day	3.1E-03
				Mercury	5E+00	mg/kg	3.6E-08	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	1.0E-04	mg/kg-day	1.3E-02
				Nickel	3E+01	mg/kg	2.3E-07	mg/kg-day	N/A	N/A	N/A	7.9E-06	mg/kg-day	2.0E-02	mg/kg-day	4.0E-04
				Thallium	6E-01	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	7E+01	mg/kg	4.5E-07	mg/kg-day	N/A	N/A	N/A	1.6E-05	mg/kg-day	1.0E-03	mg/kg-day	1.6E-02
				Zinc	1E+03	mg/kg	6.6E-06	mg/kg-day	N/A	N/A	N/A	3.0E-04	mg/kg-day	3.0E-01	mg/kg-day	1.0E-03
			Exp. Route Total								9E-06					6E-01
			Dermal													
				Benzo(a)anthracene	4E-01	mg/kg	4.2E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.1E-09	1.5E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	4E-01	mg/kg	3.5E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.6E-08	1.2E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	1.1E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	8.3E-09	4.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	7E-01	mg/kg	7.3E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	5.3E-10	2.5E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	2E-01	mg/kg	2.4E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.8E-08	8.4E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	mg/kg	2.8E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.0E-09	9.7E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	5.4E-09	mg/kg-day	N/A	N/A	N/A	1.9E-07	mg/kg-day	2.0E-02	mg/kg-day	9.4E-06
				Aroclor 1260	4E-02	mg/kg	3.7E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	3.7E-10	1.3E-08	mg/kg-day	2.0E-05	mg/kg-day	6.5E-04
				Arsenic	2E+03	mg/kg	4.0E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.0E-06	1.4E-04	mg/kg-day	3.0E-04	mg/kg-day	4.7E-01
				Cadmium	6E+00	mg/kg	4.8E-09	mg/kg-day	N/A	N/A	N/A	1.7E-07	mg/kg-day	2.5E-05	mg/kg-day	6.7E-03
			Exp. Route Total								6E-06					5E-01
		Exposure Point Total									2E-05					1E+00

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station NT-3	Ingestion													
				Trichloroethene	5E-02	mg/kg	3.2E-10	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.3E-10	1.1E-08	mg/kg-day	3.0E-04	mg/kg-day	3.8E-05
				Benzo(a)anthracene	3E-01	mg/kg	2.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.7E-09	8.2E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	6E-01	mg/kg	3.9E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.9E-08	1.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	9E-01	mg/kg	6.1E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.4E-09	2.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	5E-01	mg/kg	3.1E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	2.3E-10	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	2E-01	mg/kg	1.2E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	9.1E-09	4.3E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	4E-01	mg/kg	3.0E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.2E-09	1.0E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	4E-01	mg/kg	2.5E-09	mg/kg-day	N/A	N/A	N/A	8.7E-08	mg/kg-day	2.0E-02	mg/kg-day	4.3E-06
				Aroclor 1260	3E-02	mg/kg	2.3E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	2.3E-10	8.2E-09	mg/kg-day	2.0E-05	mg/kg-day	4.1E-04
				Antimony	2E+01	mg/kg	1.0E-07	mg/kg-day	N/A	N/A	N/A	3.6E-06	mg/kg-day	4.0E-04	mg/kg-day	9.0E-03
				Arsenic	5E+02	mg/kg	3.4E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.6E-06	1.2E-04	mg/kg-day	5.9E-04	mg/kg-day	2.0E-01
				Barium	9E+01	mg/kg	6.3E-07	mg/kg-day	N/A	N/A	N/A	2.2E-05	mg/kg-day	7.0E-02	mg/kg-day	3.2E-04
				Cadmium	7E+00	mg/kg	4.6E-08	mg/kg-day	N/A	N/A	N/A	1.6E-06	mg/kg-day	1.0E-03	mg/kg-day	1.6E-03
				Chromium III	1E+03	mg/kg	7.0E-06	mg/kg-day	N/A	N/A	N/A	2.5E-04	mg/kg-day	1.5E+00	mg/kg-day	1.6E-04
				Copper	8E+02	mg/kg	5.7E-06	mg/kg-day	N/A	N/A	N/A	2.0E-04	mg/kg-day	3.0E-02	mg/kg-day	6.6E-03
				Lead												
				Manganese	1E+03	mg/kg	6.6E-06	mg/kg-day	N/A	N/A	N/A	2.4E-04	mg/kg-day	7.0E-02	mg/kg-day	3.4E-03
				Mercury	5E+00	mg/kg	3.4E-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
				Nickel	4E+01	mg/kg	2.5E-07	mg/kg-day	N/A	N/A	N/A	8.6E-06	mg/kg-day	2.0E-02	mg/kg-day	4.3E-04
				Thallium	6E-01	mg/kg	3.8E-09	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	8.0E-05	mg/kg-day	1.7E-03
				Vanadium	7E+01	mg/kg	4.6E-07	mg/kg-day	N/A	N/A	N/A	1.6E-05	mg/kg-day	1.0E-03	mg/kg-day	1.6E-02
				Zinc	1E+03	mg/kg	8.1E-06	mg/kg-day	N/A	N/A	N/A	2.8E-04	mg/kg-day	3.0E-01	mg/kg-day	9.5E-04
			Exp. Route Total								3E-06					3E-01
			Dermal													
				Benzo(a)anthracene	3E-01	mg/kg	3.4E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.5E-09	1.2E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	6E-01	mg/kg	5.7E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.2E-08	2.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	9E-01	mg/kg	8.8E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.5E-09	3.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	5E-01	mg/kg	4.5E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	3.3E-10	1.6E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	2E-01	mg/kg	1.8E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.3E-08	6.3E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	4E-01	mg/kg	4.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.2E-09	1.5E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	4E-01	mg/kg	3.8E-09	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	2.0E-02	mg/kg-day	6.3E-06
				Aroclor 1260	3E-02	mg/kg	3.7E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	3.7E-10	1.3E-08	mg/kg-day	2.0E-05	mg/kg-day	6.4E-04
				Arsenic	5E+02	mg/kg	1.1E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.7E-06	4.0E-05	mg/kg-day	3.0E-04	mg/kg-day	1.3E-01
				Cadmium	7E+00	mg/kg	5.1E-09	mg/kg-day	N/A	N/A	N/A	1.8E-07	mg/kg-day	2.5E-05	mg/kg-day	7.2E-03
			Exp. Route Total								2E-06					1E-01
		Exposure Point Total									4E-06					4E-01

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station WG	Ingestion													
				Trichloroethene	4E-02	mg/kg	2.8E-10	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	1.1E-10	1.0E-08	mg/kg-day	3.0E-04	mg/kg-day	3.3E-05
				Benzo(a)anthracene	1E-01	mg/kg	8.8E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.4E-10	3.1E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	1.1E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	7.9E-09	3.8E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E-01	mg/kg	2.0E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.4E-09	6.9E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E-01	mg/kg	1.4E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	9.9E-11	4.7E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	5E-02	mg/kg	3.1E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.3E-09	1.1E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	9.5E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.9E-10	3.3E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E-01	mg/kg	1.1E-09	mg/kg-day	N/A	N/A	N/A	3.8E-08	mg/kg-day	2.0E-02	mg/kg-day	1.9E-06
				Aroclor 1260	1E-02	mg/kg	7.5E-11	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	7.5E-11	2.6E-09	mg/kg-day	2.0E-05	mg/kg-day	1.3E-04
				Antimony	9E+00	mg/kg	6.2E-08	mg/kg-day	N/A	N/A	N/A	2.2E-06	mg/kg-day	4.0E-04	mg/kg-day	5.4E-03
				Arsenic	3E+02	mg/kg	1.8E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.4E-06	6.2E-05	mg/kg-day	5.9E-04	mg/kg-day	1.1E-01
				Barium	9E+01	mg/kg	6.4E-07	mg/kg-day	N/A	N/A	N/A	2.2E-05	mg/kg-day	7.0E-02	mg/kg-day	3.2E-04
				Cadmium	6E+00	mg/kg	4.3E-08	mg/kg-day	N/A	N/A	N/A	1.5E-06	mg/kg-day	1.0E-03	mg/kg-day	1.5E-03
				Chromium III	9E+02	mg/kg	6.3E-06	mg/kg-day	N/A	N/A	N/A	2.2E-04	mg/kg-day	1.5E+00	mg/kg-day	1.5E-04
				Copper	8E+02	mg/kg	4.3E-06	mg/kg-day	N/A	N/A	N/A	1.5E-04	mg/kg-day	3.0E-02	mg/kg-day	5.0E-03
				Lead												
				Manganese	1E+03	mg/kg	6.9E-06	mg/kg-day	N/A	N/A	N/A	2.4E-04	mg/kg-day	7.0E-02	mg/kg-day	3.4E-03
				Mercury	3E+00	mg/kg	2.0E-08	mg/kg-day	N/A	N/A	N/A	7.0E-07	mg/kg-day	1.0E-04	mg/kg-day	7.0E-03
				Nickel	3E+01	mg/kg	2.4E-07	mg/kg-day	N/A	N/A	N/A	8.2E-06	mg/kg-day	2.0E-02	mg/kg-day	4.1E-04
				Thallium	4E-01	mg/kg	3.0E-09	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	8.0E-05	mg/kg-day	1.3E-03
				Vanadium	7E+01	mg/kg	4.4E-07	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	1.0E-03	mg/kg-day	1.5E-02
				Zinc	1E+03	mg/kg	7.4E-06	mg/kg-day	N/A	N/A	N/A	2.6E-04	mg/kg-day	3.0E-01	mg/kg-day	8.6E-04
			Exp. Route Total								1E-06					1E-01
			Dermal													
				Benzo(a)anthracene	1E-01	mg/kg	1.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.4E-10	4.5E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	1.6E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.2E-08	5.5E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	3E-01	mg/kg	2.9E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.1E-09	1.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E-01	mg/kg	2.0E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.4E-10	6.9E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	5E-02	mg/kg	4.5E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.3E-09	1.6E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	1.4E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.0E-09	4.8E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	2E-01	mg/kg	1.6E-09	mg/kg-day	N/A	N/A	N/A	5.5E-08	mg/kg-day	2.0E-02	mg/kg-day	2.8E-06
				Aroclor 1260	1E-02	mg/kg	1.2E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	1.2E-10	4.1E-09	mg/kg-day	2.0E-05	mg/kg-day	2.0E-04
				Arsenic	3E+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	6E+00	mg/kg	4.8E-09	mg/kg-day	N/A	N/A	N/A	1.7E-07	mg/kg-day	2.5E-05	mg/kg-day	6.8E-03
			Exp. Route Total								9E-07					8E-02
		Exposure Point Total									2E-06					2E-01

TABLE 3-7.4.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station WW	Ingestion													
				Benzo(b)fluoranthene	3E-01	mg/kg	2.2E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.6E-09	7.8E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	6E-01	mg/kg	4.1E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	3.0E-10	1.4E-07	mg/kg-day	N/A	N/A	N/A
				Antimony	3E+01	mg/kg	2.0E-07	mg/kg-day	N/A	N/A	N/A	6.9E-06	mg/kg-day	4.0E-04	mg/kg-day	1.7E-02
				Arsenic	4E+01	mg/kg	2.8E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.1E-07	9.7E-06	mg/kg-day	5.9E-04	mg/kg-day	1.6E-02
				Barium	1E+03	mg/kg	9.8E-06	mg/kg-day	N/A	N/A	N/A	3.4E-04	mg/kg-day	7.0E-02	mg/kg-day	4.9E-03
				Cadmium	1E+01	mg/kg	6.5E-08	mg/kg-day	N/A	N/A	N/A	2.3E-06	mg/kg-day	1.0E-03	mg/kg-day	2.3E-03
				Chromium III	2E+04	mg/kg	1.0E-04	mg/kg-day	N/A	N/A	N/A	3.7E-03	mg/kg-day	1.5E+00	mg/kg-day	2.4E-03
				Copper	4E+02	mg/kg	2.8E-06	mg/kg-day	N/A	N/A	N/A	9.8E-05	mg/kg-day	3.0E-02	mg/kg-day	3.3E-03
				Lead												
				Manganese	4E+02	mg/kg	2.9E-06	mg/kg-day	N/A	N/A	N/A	1.0E-04	mg/kg-day	7.0E-02	mg/kg-day	1.4E-03
				Mercury	1E+00	mg/kg	8.1E-09	mg/kg-day	N/A	N/A	N/A	2.8E-07	mg/kg-day	1.0E-04	mg/kg-day	2.8E-03
				Nickel	3E+01	mg/kg	1.7E-07	mg/kg-day	N/A	N/A	N/A	6.0E-06	mg/kg-day	2.0E-02	mg/kg-day	3.0E-04
				Thallium	2E+00	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	8E+01	mg/kg	5.2E-07	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	1.0E-03	mg/kg-day	1.8E-02
				Zinc	1E+03	mg/kg	9.1E-06	mg/kg-day	N/A	N/A	N/A	3.2E-04	mg/kg-day	3.0E-01	mg/kg-day	1.1E-03
				Chromium VI	2E+01	mg/kg	1.4E-07	mg/kg-day	N/A	N/A	N/A	4.8E-06	mg/kg-day	3.0E-03	mg/kg-day	1.6E-03
			Exp. Route Total								2E-07					8E-02
			Dermal													
				Benzo(b)fluoranthene	3E-01	mg/kg	3.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.4E-09	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	6E-01	mg/kg	6.0E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	4.4E-10	2.1E-07	mg/kg-day	N/A	N/A	N/A
				Arsenic	4E+01	mg/kg	9.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.4E-07	3.3E-06	mg/kg-day	3.0E-04	mg/kg-day	1.1E-02
				Cadmium	1E+01	mg/kg	7.3E-09	mg/kg-day	N/A	N/A	N/A	2.5E-07	mg/kg-day	2.5E-05	mg/kg-day	1.0E-02
			Exp. Route Total								1E-07					2E-02
		Exposure Point Total									4E-07					1E-01

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station JY	Ingestion													
				Aroclor 1254	1E+00	mg/kg	9.3E-09	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	9.3E-09	3.2E-07	mg/kg-day	2.0E-05	mg/kg-day	1.6E-02
				Aroclor 1260	1E+00	mg/kg	1.0E-08	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	1.0E-08	3.5E-07	mg/kg-day	2.0E-05	mg/kg-day	1.7E-02
				Antimony	5E+00	mg/kg	3.7E-08	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	4.0E-04	mg/kg-day	3.2E-03
				Arsenic	3E+02	mg/kg	1.9E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.5E-06	6.7E-05	mg/kg-day	5.9E-04	mg/kg-day	1.1E-01
				Barium	2E+02	mg/kg	1.2E-06	mg/kg-day	N/A	N/A	N/A	4.3E-05	mg/kg-day	7.0E-02	mg/kg-day	6.2E-04
				Cadmium	1E+01	mg/kg	9.9E-08	mg/kg-day	N/A	N/A	N/A	3.5E-06	mg/kg-day	1.0E-03	mg/kg-day	3.5E-03
				Chromium III	1E+03	mg/kg	7.9E-06	mg/kg-day	N/A	N/A	N/A	2.8E-04	mg/kg-day	1.5E+00	mg/kg-day	1.9E-04
				Copper	5E+02	mg/kg	3.4E-06	mg/kg-day	N/A	N/A	N/A	1.2E-04	mg/kg-day	3.0E-02	mg/kg-day	4.0E-03
				Lead												
				Manganese	4E+02	mg/kg	2.5E-06	mg/kg-day	N/A	N/A	N/A	8.7E-05	mg/kg-day	7.0E-02	mg/kg-day	1.2E-03
				Mercury	2E+00	mg/kg	1.2E-08	mg/kg-day	N/A	N/A	N/A	4.3E-07	mg/kg-day	1.0E-04	mg/kg-day	4.3E-03
				Nickel	8E+01	mg/kg	5.1E-07	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	2.0E-02	mg/kg-day	8.9E-04
				Thallium	4E+00	mg/kg	2.7E-08	mg/kg-day	N/A	N/A	N/A	9.6E-07	mg/kg-day	8.0E-05	mg/kg-day	1.2E-02
				Vanadium	6E+01	mg/kg	4.4E-07	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	1.0E-03	mg/kg-day	1.5E-02
				Zinc	2E+03	mg/kg	1.6E-05	mg/kg-day	N/A	N/A	N/A	5.6E-04	mg/kg-day	3.0E-01	mg/kg-day	1.9E-03
				Chromium VI	2E+00	mg/kg	1.0E-08	mg/kg-day	N/A	N/A	N/A	3.6E-07	mg/kg-day	3.0E-03	mg/kg-day	1.2E-04
			Exp. Route Total								1E-06					2E-01
			Dermal													
				Aroclor 1254	1E+00	mg/kg	1.5E-08	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	1.5E-08	5.1E-07	mg/kg-day	2.0E-05	mg/kg-day	2.5E-02
				Aroclor 1260	1E+00	mg/kg	1.8E-08	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	1.8E-08	5.5E-07	mg/kg-day	2.0E-05	mg/kg-day	2.7E-02
				Arsenic	3E+02	mg/kg	6.4E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	9.7E-07	2.3E-05	mg/kg-day	3.0E-04	mg/kg-day	7.5E-02
				Cadmium	1E+01	mg/kg	1.1E-08	mg/kg-day	N/A	N/A	N/A	3.9E-07	mg/kg-day	2.5E-05	mg/kg-day	1.5E-02
			Exp. Route Total								1E-06					1E-01
		Exposure Point Total									2E-06					3E-01

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station WS/WSS	Ingestion													
				Antimony	5E+00	mg/kg	1.0E-07	mg/kg-day	N/A	N/A	N/A	3.5E-06	mg/kg-day	4.0E-04	mg/kg-day	8.8E-03
				Arsenic	2E+02	mg/kg	4.6E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.5E-06	1.6E-04	mg/kg-day	5.9E-04	mg/kg-day	2.7E-01
				Barium	1E+02	mg/kg	2.9E-06	mg/kg-day	N/A	N/A	N/A	1.0E-04	mg/kg-day	7.0E-02	mg/kg-day	1.4E-03
				Cadmium	1E+01	mg/kg	2.2E-07	mg/kg-day	N/A	N/A	N/A	7.6E-06	mg/kg-day	1.0E-03	mg/kg-day	7.6E-03
				Chromium III	7E+02	mg/kg	1.5E-05	mg/kg-day	N/A	N/A	N/A	5.2E-04	mg/kg-day	1.5E+00	mg/kg-day	3.5E-04
				Copper	4E+02	mg/kg	8.4E-06	mg/kg-day	N/A	N/A	N/A	2.9E-04	mg/kg-day	3.0E-02	mg/kg-day	9.8E-03
				Lead												
				Manganese	1E+03	mg/kg	2.5E-05	mg/kg-day	N/A	N/A	N/A	8.7E-04	mg/kg-day	7.0E-02	mg/kg-day	1.2E-02
				Mercury	1E+00	mg/kg	2.8E-08	mg/kg-day	N/A	N/A	N/A	9.7E-07	mg/kg-day	1.0E-04	mg/kg-day	9.7E-03
				Nickel	4E+01	mg/kg	7.4E-07	mg/kg-day	N/A	N/A	N/A	2.6E-05	mg/kg-day	2.0E-02	mg/kg-day	1.3E-03
				Thallium	1E+00	mg/kg	2.2E-08	mg/kg-day	N/A	N/A	N/A	7.9E-07	mg/kg-day	8.0E-05	mg/kg-day	9.8E-03
				Vanadium	4E+01	mg/kg	9.1E-07	mg/kg-day	N/A	N/A	N/A	3.2E-05	mg/kg-day	1.0E-03	mg/kg-day	3.2E-02
				Zinc	2E+03	mg/kg	4.2E-05	mg/kg-day	N/A	N/A	N/A	1.5E-03	mg/kg-day	3.0E-01	mg/kg-day	4.9E-03
				Chromium VI	9E-01	mg/kg	1.9E-08	mg/kg-day	N/A	N/A	N/A	6.7E-07	mg/kg-day	3.0E-03	mg/kg-day	2.2E-04
			Exp. Route Total								4E-06					4E-01
			Dermal													
				Arsenic	2E+02	mg/kg	1.5E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.3E-06	5.4E-05	mg/kg-day	3.0E-04	mg/kg-day	1.8E-01
				Cadmium	1E+01	mg/kg	2.4E-08	mg/kg-day	N/A	N/A	N/A	8.5E-07	mg/kg-day	2.5E-05	mg/kg-day	3.4E-02
			Exp. Route Total								2E-06					2E-01
		Exposure Point Total									6E-06					6E-01

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station TT-30	Ingestion													
				Arsenic	1E+03	mg/kg	7.3E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	5.6E-06	2.6E-04	mg/kg-day	5.9E-04	mg/kg-day	4.3E-01
				Barium	3E+01	mg/kg	2.2E-07	mg/kg-day	N/A	N/A	N/A	7.8E-06	mg/kg-day	7.0E-02	mg/kg-day	1.1E-04
				Cadmium	7E+00	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
				Chromium III	5E+03	mg/kg	3.6E-05	mg/kg-day	N/A	N/A	N/A	1.3E-03	mg/kg-day	1.5E+00	mg/kg-day	8.4E-04
				Copper	4E+03	mg/kg	2.6E-05	mg/kg-day	N/A	N/A	N/A	8.9E-04	mg/kg-day	3.0E-02	mg/kg-day	3.0E-02
				Lead												
				Manganese	2E+02	mg/kg	1.4E-06	mg/kg-day	N/A	N/A	N/A	4.9E-05	mg/kg-day	7.0E-02	mg/kg-day	7.0E-04
				Mercury	9E+01	mg/kg	6.1E-07	mg/kg-day	N/A	N/A	N/A	2.1E-05	mg/kg-day	1.0E-04	mg/kg-day	2.1E-01
				Nickel	8E+00	mg/kg	5.4E-08	mg/kg-day	N/A	N/A	N/A	1.9E-06	mg/kg-day	2.0E-02	mg/kg-day	9.5E-05
				Thallium	2E+00	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	1.4E-07	mg/kg-day	N/A	N/A	N/A	5.0E-06	mg/kg-day	1.0E-03	mg/kg-day	5.0E-03
				Zinc	1E+03	mg/kg	7.9E-06	mg/kg-day	N/A	N/A	N/A	2.8E-04	mg/kg-day	3.0E-01	mg/kg-day	9.3E-04
				Chromium VI	7E+00	mg/kg	4.7E-08	mg/kg-day	N/A	N/A	N/A	1.6E-06	mg/kg-day	3.0E-03	mg/kg-day	5.5E-04
			Exp. Route Total								6E-06					7E-01
			Dermal													
				Arsenic	1E+03	mg/kg	2.5E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.7E-06	8.6E-05	mg/kg-day	3.0E-04	mg/kg-day	2.9E-01
				Cadmium	7E+00	mg/kg	5.4E-09	mg/kg-day	N/A	N/A	N/A	1.9E-07	mg/kg-day	2.5E-05	mg/kg-day	7.6E-03
			Exp. Route Total								4E-06					3E-01
		Exposure Point Total									9E-06					1E+00
		Station TT-31	Ingestion													
				Arsenic	2E+01	mg/kg	1.1E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	8.7E-08	3.9E-06	mg/kg-day	5.9E-04	mg/kg-day	6.7E-03
				Barium	9E+01	mg/kg	6.2E-07	mg/kg-day	N/A	N/A	N/A	2.2E-05	mg/kg-day	7.0E-02	mg/kg-day	3.1E-04
				Cadmium	4E+00	mg/kg	2.8E-08	mg/kg-day	N/A	N/A	N/A	9.9E-07	mg/kg-day	1.0E-03	mg/kg-day	9.9E-04
				Chromium III	2E+02	mg/kg	1.3E-06	mg/kg-day	N/A	N/A	N/A	4.4E-05	mg/kg-day	1.5E+00	mg/kg-day	2.9E-05
				Copper	1E+02	mg/kg	7.7E-07	mg/kg-day	N/A	N/A	N/A	2.7E-05	mg/kg-day	3.0E-02	mg/kg-day	9.0E-04
				Lead												
				Manganese	6E+02	mg/kg	4.0E-06	mg/kg-day	N/A	N/A	N/A	1.4E-04	mg/kg-day	7.0E-02	mg/kg-day	2.0E-03
				Mercury	1E+00	mg/kg	9.6E-09	mg/kg-day	N/A	N/A	N/A	3.4E-07	mg/kg-day	1.0E-04	mg/kg-day	3.4E-03
				Nickel	3E+01	mg/kg	1.8E-07	mg/kg-day	N/A	N/A	N/A	6.1E-06	mg/kg-day	2.0E-02	mg/kg-day	3.1E-04
				Vanadium	5E+01	mg/kg	3.1E-07	mg/kg-day	N/A	N/A	N/A	1.1E-05	mg/kg-day	1.0E-03	mg/kg-day	1.1E-02
				Zinc	5E+02	mg/kg	3.1E-06	mg/kg-day	N/A	N/A	N/A	1.1E-04	mg/kg-day	3.0E-01	mg/kg-day	3.7E-04
			Exp. Route Total								9E-08					3E-02
			Dermal													
				Arsenic	2E+01	mg/kg	3.8E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.7E-08	1.3E-06	mg/kg-day	3.0E-04	mg/kg-day	4.4E-03
				Cadmium	4E+00	mg/kg	3.2E-09	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	2.5E-05	mg/kg-day	4.4E-03
			Exp. Route Total								6E-08					9E-03
		Exposure Point Total									1E-07					3E-02

TABLE 3-7.4.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station CB-01	Ingestion													
				Antimony	2E+00	mg/kg	4.2E-08	mg/kg-day	N/A	N/A	N/A	1.5E-06	mg/kg-day	4.0E-04	mg/kg-day	3.6E-03
				Arsenic	6E+01	mg/kg	1.2E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	9.1E-07	4.1E-05	mg/kg-day	5.9E-04	mg/kg-day	7.0E-02
				Barium	6E+01	mg/kg	1.2E-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
				Cadmium	9E+00	mg/kg	1.9E-07	mg/kg-day	N/A	N/A	N/A	6.6E-06	mg/kg-day	1.0E-03	mg/kg-day	6.6E-03
				Chromium III	3E+02	mg/kg	6.8E-06	mg/kg-day	N/A	N/A	N/A	2.4E-04	mg/kg-day	1.5E+00	mg/kg-day	1.6E-04
				Copper	7E+02	mg/kg	1.5E-05	mg/kg-day	N/A	N/A	N/A	5.3E-04	mg/kg-day	3.0E-02	mg/kg-day	1.8E-02
				Lead												
				Manganese	7E+02	mg/kg	1.4E-05	mg/kg-day	N/A	N/A	N/A	4.9E-04	mg/kg-day	7.0E-02	mg/kg-day	7.0E-03
				Mercury	3E+00	mg/kg	6.0E-08	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	1.0E-04	mg/kg-day	2.1E-02
				Nickel	2E+01	mg/kg	4.2E-07	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	2.0E-02	mg/kg-day	7.3E-04
				Thallium	3E+00	mg/kg	5.2E-08	mg/kg-day	N/A	N/A	N/A	1.8E-06	mg/kg-day	8.0E-05	mg/kg-day	2.3E-02
				Vanadium	8E+01	mg/kg	1.6E-06	mg/kg-day	N/A	N/A	N/A	5.7E-05	mg/kg-day	1.0E-03	mg/kg-day	5.7E-02
				Zinc	6E+02	mg/kg	1.3E-05	mg/kg-day	N/A	N/A	N/A	4.5E-04	mg/kg-day	3.0E-01	mg/kg-day	1.5E-03
			Exp. Route Total								9E-07					2E-01
			Dermal													
				Arsenic	6E+01	mg/kg	4.0E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.9E-07	1.4E-05	mg/kg-day	3.0E-04	mg/kg-day	4.6E-02
				Cadmium	9E+00	mg/kg	2.1E-08	mg/kg-day	N/A	N/A	N/A	7.4E-07	mg/kg-day	2.5E-05	mg/kg-day	3.0E-02
			Exp. Route Total								6E-07					8E-02
		Exposure Point Total									2E-06					3E-01
		Station CB-02	Ingestion													
				Antimony	2E+00	mg/kg	3.7E-08	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	4.0E-04	mg/kg-day	3.2E-03
				Arsenic	4E+01	mg/kg	8.4E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	6.5E-07	3.0E-05	mg/kg-day	5.9E-04	mg/kg-day	5.0E-02
				Barium	2E+02	mg/kg	3.5E-06	mg/kg-day	N/A	N/A	N/A	1.2E-04	mg/kg-day	7.0E-02	mg/kg-day	1.7E-03
				Cadmium	4E+00	mg/kg	7.8E-08	mg/kg-day	N/A	N/A	N/A	2.7E-06	mg/kg-day	1.0E-03	mg/kg-day	2.7E-03
				Chromium III	1E+02	mg/kg	2.9E-06	mg/kg-day	N/A	N/A	N/A	1.0E-04	mg/kg-day	1.5E+00	mg/kg-day	6.8E-05
				Copper	1E+02	mg/kg	2.0E-06	mg/kg-day	N/A	N/A	N/A	7.0E-05	mg/kg-day	3.0E-02	mg/kg-day	2.3E-03
				Lead												
				Manganese	7E+01	mg/kg	1.5E-06	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	3E-01	mg/kg	6.7E-09	mg/kg-day	N/A	N/A	N/A	2.3E-07	mg/kg-day	1.0E-04	mg/kg-day	2.3E-03
				Nickel	1E+01	mg/kg	2.0E-07	mg/kg-day	N/A	N/A	N/A	7.1E-06	mg/kg-day	2.0E-02	mg/kg-day	3.6E-04
				Vanadium	3E+01	mg/kg	6.5E-07	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	1.0E-03	mg/kg-day	2.3E-02
				Zinc	3E+02	mg/kg	6.4E-06	mg/kg-day	N/A	N/A	N/A	2.2E-04	mg/kg-day	3.0E-01	mg/kg-day	7.5E-04
			Exp. Route Total								6E-07					9E-02
			Dermal													
				Arsenic	4E+01	mg/kg	2.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.3E-07	9.9E-06	mg/kg-day	3.0E-04	mg/kg-day	3.3E-02
				Cadmium	4E+00	mg/kg	8.7E-09	mg/kg-day	N/A	N/A	N/A	3.1E-07	mg/kg-day	2.5E-05	mg/kg-day	1.2E-02
			Exp. Route Total								4E-07					5E-02
		Exposure Point Total									1E-06					1E-01

TABLE 3-7.4.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station CB-03	Ingestion													
				Antimony	2E+00	mg/kg	3.1E-08	mg/kg-day	N/A	N/A	N/A	1.1E-06	mg/kg-day	4.0E-04	mg/kg-day	2.7E-03
				Arsenic	6E+02	mg/kg	1.2E-05	mg/kg-day	7.7E-01	(mg/kg-day)$^{-1}$	9.3E-06	4.2E-04	mg/kg-day	5.9E-04	mg/kg-day	7.2E-01
				Barium	7E+01	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
				Cadmium	1E+01	mg/kg	2.7E-07	mg/kg-day	N/A	N/A	N/A	9.3E-06	mg/kg-day	1.0E-03	mg/kg-day	9.3E-03
				Chromium III	5E+02	mg/kg	9.3E-06	mg/kg-day	N/A	N/A	N/A	3.3E-04	mg/kg-day	1.5E+00	mg/kg-day	2.2E-04
				Copper	4E+02	mg/kg	7.7E-06	mg/kg-day	N/A	N/A	N/A	2.7E-04	mg/kg-day	3.0E-02	mg/kg-day	8.9E-03
				Lead												
				Manganese	5E+02	mg/kg	9.4E-06	mg/kg-day	N/A	N/A	N/A	3.3E-04	mg/kg-day	7.0E-02	mg/kg-day	4.7E-03
				Mercury	2E+00	mg/kg	5.0E-08	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	1.0E-04	mg/kg-day	1.7E-02
				Nickel	4E+01	mg/kg	7.5E-07	mg/kg-day	N/A	N/A	N/A	2.6E-05	mg/kg-day	2.0E-02	mg/kg-day	1.3E-03
				Thallium	1E+00	mg/kg	2.0E-08	mg/kg-day	N/A	N/A	N/A	6.9E-07	mg/kg-day	8.0E-05	mg/kg-day	8.6E-03
				Vanadium	6E+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
				Zinc	2E+03	mg/kg	4.3E-05	mg/kg-day	N/A	N/A	N/A	1.5E-03	mg/kg-day	3.0E-01	mg/kg-day	5.0E-03
			Exp. Route Total								9E-06					8E-01
			Dermal													
				Arsenic	6E+02	mg/kg	4.1E-06	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	6.1E-06	1.4E-04	mg/kg-day	3.0E-04	mg/kg-day	4.7E-01
				Cadmium	1E+01	mg/kg	3.0E-08	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	2.5E-05	mg/kg-day	4.2E-02
			Exp. Route Total								6E-06					5E-01
		Exposure Point Total									2E-05					1E+00
		Station CB-04	Ingestion													
				Antimony	5E+00	mg/kg	9.7E-08	mg/kg-day	N/A	N/A	N/A	3.4E-06	mg/kg-day	4.0E-04	mg/kg-day	8.5E-03
				Arsenic	2E+02	mg/kg	3.7E-06	mg/kg-day	7.7E-01	(mg/kg-day)$^{-1}$	2.8E-06	1.3E-04	mg/kg-day	5.9E-04	mg/kg-day	2.2E-01
				Barium	8E+01	mg/kg	1.6E-06	mg/kg-day	N/A	N/A	N/A	5.5E-05	mg/kg-day	7.0E-02	mg/kg-day	7.8E-04
				Cadmium	6E+00	mg/kg	1.2E-07	mg/kg-day	N/A	N/A	N/A	4.1E-06	mg/kg-day	1.0E-03	mg/kg-day	4.1E-03
				Chromium III	3E+02	mg/kg	5.5E-06	mg/kg-day	N/A	N/A	N/A	1.9E-04	mg/kg-day	1.5E+00	mg/kg-day	1.3E-04
				Copper	2E+02	mg/kg	5.0E-06	mg/kg-day	N/A	N/A	N/A	1.7E-04	mg/kg-day	3.0E-02	mg/kg-day	5.8E-03
				Lead												
				Manganese	1E+03	mg/kg	2.8E-05	mg/kg-day	N/A	N/A	N/A	9.8E-04	mg/kg-day	7.0E-02	mg/kg-day	1.4E-02
				Mercury	1E+00	mg/kg	2.5E-08	mg/kg-day	N/A	N/A	N/A	8.6E-07	mg/kg-day	1.0E-04	mg/kg-day	8.6E-03
				Nickel	8E+01	mg/kg	1.6E-06	mg/kg-day	N/A	N/A	N/A	5.5E-05	mg/kg-day	2.0E-02	mg/kg-day	2.7E-03
				Thallium	1E+00	mg/kg	2.3E-08	mg/kg-day	N/A	N/A	N/A	8.0E-07	mg/kg-day	8.0E-05	mg/kg-day	1.0E-02
				Vanadium	7E+01	mg/kg	1.4E-06	mg/kg-day	N/A	N/A	N/A	4.9E-05	mg/kg-day	1.0E-03	mg/kg-day	4.9E-02
				Zinc	3E+03	mg/kg	6.2E-05	mg/kg-day	N/A	N/A	N/A	2.2E-03	mg/kg-day	3.0E-01	mg/kg-day	7.3E-03
			Exp. Route Total								3E-06					3E-01
			Dermal													
				Arsenic	2E+02	mg/kg	1.2E-06	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	1.9E-06	4.3E-05	mg/kg-day	3.0E-04	mg/kg-day	1.4E-01
				Cadmium	6E+00	mg/kg	1.3E-08	mg/kg-day	N/A	N/A	N/A	4.6E-07	mg/kg-day	2.5E-05	mg/kg-day	1.8E-02
			Exp. Route Total								2E-06					2E-01
		Exposure Point Total									5E-06					5E-01

TABLE 3-7.4.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station CB-06	Ingestion													
				Antimony	5E+00	mg/kg	9.6E-08	mg/kg-day	N/A	N/A	N/A	3.4E-06	mg/kg-day	4.0E-04	mg/kg-day	8.4E-03
				Arsenic	1E+02	mg/kg	2.8E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.2E-06	1.0E-04	mg/kg-day	5.9E-04	mg/kg-day	1.7E-01
				Barium	5E+01	mg/kg	1.0E-06	mg/kg-day	N/A	N/A	N/A	3.6E-05	mg/kg-day	7.0E-02	mg/kg-day	5.2E-04
				Cadmium	2E+01	mg/kg	3.5E-07	mg/kg-day	N/A	N/A	N/A	1.2E-05	mg/kg-day	1.0E-03	mg/kg-day	1.2E-02
				Chromium III	5E+02	mg/kg	1.0E-05	mg/kg-day	N/A	N/A	N/A	3.5E-04	mg/kg-day	1.5E+00	mg/kg-day	2.4E-04
				Copper	2E+02	mg/kg	4.8E-06	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	9E+01	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	9.5E-04
				Mercury	3E-01	mg/kg	6.9E-09	mg/kg-day	N/A	N/A	N/A	2.4E-07	mg/kg-day	1.0E-04	mg/kg-day	2.4E-03
				Nickel	3E+01	mg/kg	5.6E-07	mg/kg-day	N/A	N/A	N/A	2.0E-05	mg/kg-day	2.0E-02	mg/kg-day	9.8E-04
				Thallium	4E+00	mg/kg	8.4E-08	mg/kg-day	N/A	N/A	N/A	2.9E-06	mg/kg-day	8.0E-05	mg/kg-day	3.7E-02
				Vanadium	7E+01	mg/kg	1.5E-06	mg/kg-day	N/A	N/A	N/A	5.1E-05	mg/kg-day	1.0E-03	mg/kg-day	5.1E-02
				Zinc	2E+03	mg/kg	4.2E-05	mg/kg-day	N/A	N/A	N/A	1.5E-03	mg/kg-day	3.0E-01	mg/kg-day	4.9E-03
				Chromium VI	6E-01	mg/kg	1.3E-08	mg/kg-day	N/A	N/A	N/A	4.6E-07	mg/kg-day	3.0E-03	mg/kg-day	1.5E-04
			Exp. Route Total								2E-06					3E-01
			Dermal													
				Arsenic	1E+02	mg/kg	9.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.4E-06	3.3E-05	mg/kg-day	3.0E-04	mg/kg-day	1.1E-01
				Cadmium	2E+01	mg/kg	3.9E-08	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	2.5E-05	mg/kg-day	5.5E-02
			Exp. Route Total								1E-06					2E-01
		Exposure Point Total									4E-06					5E-01
		Station CB-07	Ingestion													
				Arsenic	2E+02	mg/kg	1.4E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.1E-06	5.0E-05	mg/kg-day	5.9E-04	mg/kg-day	8.5E-02
				Barium	6E+01	mg/kg	3.8E-07	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	7.0E-02	mg/kg-day	1.9E-04
				Cadmium	5E+00	mg/kg	3.3E-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
				Chromium III	7E+02	mg/kg	4.8E-06	mg/kg-day	N/A	N/A	N/A	1.7E-04	mg/kg-day	1.5E+00	mg/kg-day	1.1E-04
				Copper	2E+02	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	3.9E-05	mg/kg-day	3.0E-02	mg/kg-day	1.3E-03
				Lead												
				Manganese	3E+02	mg/kg	2.3E-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
				Mercury	1E+00	mg/kg	6.8E-09	mg/kg-day	N/A	N/A	N/A	3.1E-07	mg/kg-day	1.0E-04	mg/kg-day	3.1E-03
				Nickel	2E+01	mg/kg	1.5E-07	mg/kg-day	N/A	N/A	N/A	5.2E-06	mg/kg-day	2.0E-02	mg/kg-day	2.6E-04
				Vanadium	9E+01	mg/kg	6.2E-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
				Zinc	6E+02	mg/kg	4.2E-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					1E-01
			Dermal													
				Arsenic	2E+02	mg/kg	4.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	7.2E-07	1.7E-05	mg/kg-day	3.0E-04	mg/kg-day	5.6E-02
				Cadmium	5E+00	mg/kg	3.7E-09	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	2.5E-05	mg/kg-day	5.2E-03
			Exp. Route Total								7E-07					6E-02
		Exposure Point Total									2E-06					2E-01

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station 16/TT-33	Ingestion													
				Benzo(a)anthracene	1E-01	mg/kg	7.5E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.4E-10	2.6E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E-01	mg/kg	9.5E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	6.9E-09	3.3E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E-01	mg/kg	1.6E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.2E-09	5.6E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E-01	mg/kg	6.7E-10	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	4.9E-11	2.4E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	6E-02	mg/kg	4.1E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.0E-10	1.4E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	1E-01	mg/kg	8.8E-10	mg/kg-day	N/A	N/A	N/A	3.1E-08	mg/kg-day	2.0E-02	mg/kg-day	1.5E-06
				Antimony	6E+00	mg/kg	4.0E-08	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	4.0E-04	mg/kg-day	3.5E-03
				Arsenic	2E+02	mg/kg	1.6E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.2E-06	5.6E-05	mg/kg-day	5.9E-04	mg/kg-day	9.5E-02
				Barium	6E+01	mg/kg	4.2E-07	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	7.0E-02	mg/kg-day	2.1E-04
				Cadmium	6E+00	mg/kg	3.8E-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
				Chromium III	6E+02	mg/kg	3.9E-06	mg/kg-day	N/A	N/A	N/A	1.4E-04	mg/kg-day	1.5E+00	mg/kg-day	9.1E-05
				Copper	4E+02	mg/kg	2.7E-06	mg/kg-day	N/A	N/A	N/A	9.5E-05	mg/kg-day	3.0E-02	mg/kg-day	3.2E-03
				Lead												
				Manganese	4E+02	mg/kg	2.6E-06	mg/kg-day	N/A	N/A	N/A	9.2E-05	mg/kg-day	7.0E-02	mg/kg-day	1.3E-03
				Mercury	3E+00	mg/kg	2.3E-08	mg/kg-day	N/A	N/A	N/A	8.1E-07	mg/kg-day	1.0E-04	mg/kg-day	8.1E-03
				Nickel	2E+01	mg/kg	1.0E-07	mg/kg-day	N/A	N/A	N/A	3.7E-06	mg/kg-day	2.0E-02	mg/kg-day	1.8E-04
				Vanadium	3E+01	mg/kg	2.1E-07	mg/kg-day	N/A	N/A	N/A	7.3E-06	mg/kg-day	1.0E-03	mg/kg-day	7.3E-03
				Zinc	9E+02	mg/kg	6.3E-06	mg/kg-day	N/A	N/A	N/A	2.2E-04	mg/kg-day	3.0E-01	mg/kg-day	7.4E-04
				Chromium VI	7E-01	mg/kg	5.1E-09	mg/kg-day	N/A	N/A	N/A	1.8E-07	mg/kg-day	3.0E-03	mg/kg-day	5.9E-05
			Exp. Route Total								1E-06					1E-01
			Dermal													
				Benzo(a)anthracene	1E-01	mg/kg	1.1E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	7.9E-10	3.8E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	1E-01	mg/kg	1.4E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.0E-08	4.8E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E-01	mg/kg	2.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.7E-09	8.1E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E-01	mg/kg	9.8E-10	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	7.1E-11	3.4E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	6E-02	mg/kg	5.9E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.3E-10	2.1E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	1E-01	mg/kg	1.3E-09	mg/kg-day	N/A	N/A	N/A	4.5E-08	mg/kg-day	2.0E-02	mg/kg-day	2.2E-06
				Arsenic	2E+02	mg/kg	5.4E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	8.1E-07	1.9E-05	mg/kg-day	3.0E-04	mg/kg-day	6.3E-02
				Cadmium	6E+00	mg/kg	4.3E-09	mg/kg-day	N/A	N/A	N/A	1.5E-07	mg/kg-day	2.5E-05	mg/kg-day	6.0E-03
			Exp. Route Total								8E-07					7E-02
		Exposure Point Total									2E-06					2E-01

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station 09	Ingestion													
				Benzo(a)anthracene	5E-01	mg/kg	3.2E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.4E-09	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	5E-01	mg/kg	3.4E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.5E-08	1.2E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	9.0E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.5E-09	3.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	8.2E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	6.0E-10	2.9E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	8E-02	mg/kg	5.4E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.0E-09	1.9E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	mg/kg	1.7E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.2E-09	6.0E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	3E-01	mg/kg	2.1E-09	mg/kg-day	N/A	N/A	N/A	7.3E-08	mg/kg-day	2.0E-02	mg/kg-day	3.6E-06
				Antimony	1E+00	mg/kg	6.9E-09	mg/kg-day	N/A	N/A	N/A	2.4E-07	mg/kg-day	4.0E-04	mg/kg-day	6.0E-04
				Arsenic	3E+01	mg/kg	2.4E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.8E-07	8.3E-06	mg/kg-day	5.9E-04	mg/kg-day	1.4E-02
				Barium	3E+01	mg/kg	2.3E-07	mg/kg-day	N/A	N/A	N/A	7.9E-06	mg/kg-day	7.0E-02	mg/kg-day	1.1E-04
				Cadmium	7E-01	mg/kg	4.6E-09	mg/kg-day	N/A	N/A	N/A	1.6E-07	mg/kg-day	1.0E-03	mg/kg-day	1.6E-04
				Chromium III	6E+01	mg/kg	4.0E-07	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	1.5E+00	mg/kg-day	9.3E-06
				Copper	6E+01	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	4E+02	mg/kg	2.5E-06	mg/kg-day	N/A	N/A	N/A	8.7E-05	mg/kg-day	7.0E-02	mg/kg-day	1.2E-03
				Mercury	4E-01	mg/kg	2.8E-09	mg/kg-day	N/A	N/A	N/A	9.1E-08	mg/kg-day	1.0E-04	mg/kg-day	9.1E-04
				Nickel	1E+01	mg/kg	6.6E-08	mg/kg-day	N/A	N/A	N/A	2.3E-06	mg/kg-day	2.0E-02	mg/kg-day	1.1E-04
				Thallium	1E+00	mg/kg	8.8E-09	mg/kg-day	N/A	N/A	N/A	3.1E-07	mg/kg-day	8.0E-05	mg/kg-day	3.8E-03
				Vanadium	1E+01	mg/kg	9.3E-08	mg/kg-day	N/A	N/A	N/A	3.2E-06	mg/kg-day	1.0E-03	mg/kg-day	3.2E-03
				Zinc	2E+02	mg/kg	1.6E-06	mg/kg-day	N/A	N/A	N/A	5.6E-05	mg/kg-day	3.0E-01	mg/kg-day	1.9E-04
			Exp. Route Total								2E-07					2E-02
			Dermal													
				Benzo(a)anthracene	5E-01	mg/kg	4.7E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.4E-09	1.6E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	5E-01	mg/kg	5.0E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.6E-08	1.7E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	1.3E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.5E-09	4.6E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	1.2E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	8.7E-10	4.2E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	8E-02	mg/kg	7.9E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	5.8E-09	2.8E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	mg/kg	2.5E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.8E-09	8.7E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	3E-01	mg/kg	3.0E-09	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	2.0E-02	mg/kg-day	5.3E-06
				Arsenic	3E+01	mg/kg	7.9E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.2E-07	2.8E-06	mg/kg-day	3.0E-04	mg/kg-day	9.3E-03
				Cadmium	7E-01	mg/kg	5.2E-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
			Exp. Route Total								2E-07					1E-02
		Exposure Point Total									4E-07					3E-02

TABLE 3-7.4.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station AM	Ingestion													
				Antimony	2E+00	mg/kg	1.4E-08	mg/kg-day	N/A	N/A	N/A	4.7E-07	mg/kg-day	4.0E-04	mg/kg-day	1.2E-03
				Arsenic	1E+02	mg/kg	8.2E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	6.3E-07	2.9E-05	mg/kg-day	5.9E-04	mg/kg-day	4.9E-02
				Barium	6E+01	mg/kg	4.0E-07	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	7.0E-02	mg/kg-day	2.0E-04
				Cadmium	4E+00	mg/kg	2.6E-08	mg/kg-day	N/A	N/A	N/A	9.3E-07	mg/kg-day	1.0E-03	mg/kg-day	9.3E-04
				Chromium III	3E+02	mg/kg	2.2E-06	mg/kg-day	N/A	N/A	N/A	7.6E-05	mg/kg-day	1.5E+00	mg/kg-day	5.1E-05
				Copper	2E+02	mg/kg	1.3E-06	mg/kg-day	N/A	N/A	N/A	4.7E-05	mg/kg-day	3.0E-02	mg/kg-day	1.6E-03
				Lead												
				Manganese	1E+03	mg/kg	7.7E-06	mg/kg-day	N/A	N/A	N/A	2.7E-04	mg/kg-day	7.0E-02	mg/kg-day	3.9E-03
				Mercury	2E+00	mg/kg	1.3E-08	mg/kg-day	N/A	N/A	N/A	4.5E-07	mg/kg-day	1.0E-04	mg/kg-day	4.5E-03
				Nickel	2E+01	mg/kg	1.2E-07	mg/kg-day	N/A	N/A	N/A	4.3E-06	mg/kg-day	2.0E-02	mg/kg-day	2.1E-04
				Thallium	4E-01	mg/kg	3.0E-09	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	8.0E-05	mg/kg-day	1.3E-03
				Vanadium	3E+01	mg/kg	1.8E-07	mg/kg-day	N/A	N/A	N/A	6.4E-06	mg/kg-day	1.0E-03	mg/kg-day	6.4E-03
				Zinc	9E+02	mg/kg	6.4E-06	mg/kg-day	N/A	N/A	N/A	2.2E-04	mg/kg-day	3.0E-01	mg/kg-day	7.4E-04
			Exp. Route Total								6E-07					7E-02
			Dermal													
				Arsenic	1E+02	mg/kg	2.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.1E-07	9.7E-06	mg/kg-day	3.0E-04	mg/kg-day	3.2E-02
				Cadmium	4E+00	mg/kg	3.0E-09	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	2.5E-05	mg/kg-day	4.1E-03
			Exp. Route Total								4E-07					4E-02
		Exposure Point Total									1E-06					1E-01
		Station KF	Ingestion													
				Arsenic	5E+01	mg/kg	3.5E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.7E-07	1.2E-05	mg/kg-day	5.9E-04	mg/kg-day	2.1E-02
				Barium	4E+01	mg/kg	2.8E-07	mg/kg-day	N/A	N/A	N/A	9.7E-06	mg/kg-day	7.0E-02	mg/kg-day	1.4E-04
				Cadmium	1E+00	mg/kg	7.0E-09	mg/kg-day	N/A	N/A	N/A	2.5E-07	mg/kg-day	1.0E-03	mg/kg-day	2.5E-04
				Chromium III	9E+01	mg/kg	6.0E-07	mg/kg-day	N/A	N/A	N/A	2.1E-05	mg/kg-day	1.5E+00	mg/kg-day	1.4E-05
				Copper	1E+02	mg/kg	7.8E-07	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	4E+02	mg/kg	2.5E-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
				Mercury	9E-01	mg/kg	6.0E-09	mg/kg-day	N/A	N/A	N/A	2.1E-07	mg/kg-day	1.0E-04	mg/kg-day	2.1E-03
				Nickel	9E+00	mg/kg	6.1E-08	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	2.0E-02	mg/kg-day	1.1E-04
				Vanadium	2E+01	mg/kg	1.6E-07	mg/kg-day	N/A	N/A	N/A	5.5E-06	mg/kg-day	1.0E-03	mg/kg-day	5.5E-03
				Zinc	3E+02	mg/kg	2.4E-06	mg/kg-day	N/A	N/A	N/A	8.3E-05	mg/kg-day	3.0E-01	mg/kg-day	2.8E-04
			Exp. Route Total								3E-07					3E-02
			Dermal													
				Arsenic	5E+01	mg/kg	1.2E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.8E-07	4.1E-06	mg/kg-day	3.0E-04	mg/kg-day	1.4E-02
				Cadmium	1E+00	mg/kg	7.9E-10	mg/kg-day	N/A	N/A	N/A	2.8E-08	mg/kg-day	2.5E-05	mg/kg-day	1.1E-03
			Exp. Route Total								2E-07					1E-02
		Exposure Point Total									4E-07					5E-02

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station 08	Ingestion													
				Benzo(a)anthracene	5E-01	mg/kg	3.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.4E-09	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	6E-01	mg/kg	4.3E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.1E-08	1.5E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	8.7E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.4E-09	3.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	9.2E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	6.7E-10	3.2E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	9E-02	mg/kg	8.3E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.6E-09	2.2E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	4E-01	mg/kg	2.7E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.0E-09	9.5E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	3.2E-09	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	2.0E-02	mg/kg-day	5.7E-06
				Antimony	1E+00	mg/kg	7.0E-09	mg/kg-day	N/A	N/A	N/A	2.4E-07	mg/kg-day	4.0E-04	mg/kg-day	6.1E-04
				Arsenic	2E+01	mg/kg	1.3E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	9.8E-08	4.4E-06	mg/kg-day	5.9E-04	mg/kg-day	7.5E-03
				Barium	2E+01	mg/kg	1.3E-07	mg/kg-day	N/A	N/A	N/A	4.5E-06	mg/kg-day	7.0E-02	mg/kg-day	6.4E-05
				Chromium III	5E+01	mg/kg	3.7E-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
				Copper	7E+01	mg/kg	5.0E-07	mg/kg-day	N/A	N/A	N/A	1.7E-05	mg/kg-day	3.0E-02	mg/kg-day	5.8E-04
				Lead												
				Manganese	2E+02	mg/kg	1.1E-06	mg/kg-day	N/A	N/A	N/A	3.8E-05	mg/kg-day	7.0E-02	mg/kg-day	5.5E-04
				Mercury	5E-01	mg/kg	3.1E-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
				Nickel	1E+01	mg/kg	8.3E-08	mg/kg-day	N/A	N/A	N/A	2.9E-06	mg/kg-day	2.0E-02	mg/kg-day	1.4E-04
				Thallium	1E+00	mg/kg	9.7E-09	mg/kg-day	N/A	N/A	N/A	3.4E-07	mg/kg-day	8.0E-05	mg/kg-day	4.3E-03
				Vanadium	1E+01	mg/kg	1.0E-07	mg/kg-day	N/A	N/A	N/A	3.5E-06	mg/kg-day	1.0E-03	mg/kg-day	3.5E-03
				Zinc	4E+02	mg/kg	2.4E-06	mg/kg-day	N/A	N/A	N/A	8.3E-05	mg/kg-day	3.0E-01	mg/kg-day	2.8E-04
			Exp. Route Total								1E-07					2E-02
			Dermal													
				Benzo(a)anthracene	5E-01	mg/kg	4.8E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.5E-09	1.7E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	6E-01	mg/kg	6.2E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.5E-08	2.2E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+00	mg/kg	1.3E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.3E-09	4.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	1E+00	mg/kg	1.3E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	9.8E-10	4.7E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	9E-02	mg/kg	9.2E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	6.7E-09	3.2E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	4E-01	mg/kg	4.0E-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
				Phenanthrene	5E-01	mg/kg	4.7E-09	mg/kg-day	N/A	N/A	N/A	1.6E-07	mg/kg-day	2.0E-02	mg/kg-day	8.2E-06
				Arsenic	2E+01	mg/kg	4.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.4E-08	1.5E-06	mg/kg-day	3.0E-04	mg/kg-day	5.0E-03
			Exp. Route Total								1E-07					5E-03
		Exposure Point Total									3E-07					2E-02

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station 07/DP	Ingestion													
				Trichloroethene	2E-02	mg/kg	1.5E-10	mg/kg-day	4.0E-01	(mg/kg-day) $^{-1}$	6.0E-11	5.3E-09	mg/kg-day	3.0E-04	mg/kg-day	1.8E-05
				Benzo(a)anthracene	6E+00	mg/kg	3.8E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.8E-08	1.3E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	6E+00	mg/kg	3.8E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.7E-07	1.3E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+01	mg/kg	6.5E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.7E-08	2.3E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	9E+00	mg/kg	6.2E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	4.5E-09	2.2E-06	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1E+00	mg/kg	7.3E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	5.4E-08	2.6E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	4E+00	mg/kg	2.6E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.9E-08	9.2E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	7E+00	mg/kg	4.6E-08	mg/kg-day	N/A	N/A	N/A	1.6E-06	mg/kg-day	2.0E-02	mg/kg-day	8.1E-05
				Aroclor 1260	7E-02	mg/kg	4.5E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	4.5E-10	1.6E-08	mg/kg-day	2.0E-05	mg/kg-day	7.9E-04
				Antimony	2E+00	mg/kg	1.6E-08	mg/kg-day	N/A	N/A	N/A	5.5E-07	mg/kg-day	4.0E-04	mg/kg-day	1.4E-03
				Arsenic	8E+01	mg/kg	5.4E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	4.2E-07	1.9E-05	mg/kg-day	5.9E-04	mg/kg-day	3.2E-02
				Barium	8E+01	mg/kg	5.7E-07	mg/kg-day	N/A	N/A	N/A	2.0E-05	mg/kg-day	7.0E-02	mg/kg-day	2.9E-04
				Cadmium	5E+00	mg/kg	3.5E-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
				Chromium III	2E+02	mg/kg	1.7E-06	mg/kg-day	N/A	N/A	N/A	5.9E-05	mg/kg-day	1.5E+00	mg/kg-day	3.9E-05
				Copper	2E+02	mg/kg	1.6E-06	mg/kg-day	N/A	N/A	N/A	5.6E-05	mg/kg-day	3.0E-02	mg/kg-day	1.9E-03
				Lead												
				Manganese	4E+02	mg/kg	2.8E-06	mg/kg-day	N/A	N/A	N/A	9.9E-05	mg/kg-day	7.0E-02	mg/kg-day	1.4E-03
				Mercury	3E+00	mg/kg	1.9E-08	mg/kg-day	N/A	N/A	N/A	6.6E-07	mg/kg-day	1.0E-04	mg/kg-day	6.6E-03
				Nickel	3E+01	mg/kg	1.9E-07	mg/kg-day	N/A	N/A	N/A	6.5E-06	mg/kg-day	2.0E-02	mg/kg-day	3.3E-04
				Thallium	2E+00	mg/kg	1.5E-08	mg/kg-day	N/A	N/A	N/A	5.2E-07	mg/kg-day	8.0E-05	mg/kg-day	6.6E-03
				Vanadium	5E+01	mg/kg	3.5E-07	mg/kg-day	N/A	N/A	N/A	1.2E-05	mg/kg-day	1.0E-03	mg/kg-day	1.2E-02
				Zinc	1E+03	mg/kg	9.1E-06	mg/kg-day	N/A	N/A	N/A	3.2E-04	mg/kg-day	3.0E-01	mg/kg-day	1.1E-03
			Exp. Route Total								8E-07					7E-02
			Dermal													
				Benzo(a)anthracene	6E+00	mg/kg	5.5E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.0E-08	1.9E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	6E+00	mg/kg	5.5E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	4.0E-07	1.9E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	1E+01	mg/kg	9.4E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	6.9E-08	3.3E-06	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	9E+00	mg/kg	9.1E-08	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	6.6E-09	3.2E-06	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1E+00	mg/kg	1.1E-08	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	7.8E-08	3.7E-07	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	4E+00	mg/kg	3.8E-08	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.8E-08	1.3E-06	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	7E+00	mg/kg	6.7E-08	mg/kg-day	N/A	N/A	N/A	2.4E-06	mg/kg-day	2.0E-02	mg/kg-day	1.2E-04
				Aroclor 1260	7E-02	mg/kg	7.1E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	7.1E-10	2.5E-08	mg/kg-day	2.0E-05	mg/kg-day	1.2E-03
				Arsenic	8E+01	mg/kg	1.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.7E-07	6.4E-06	mg/kg-day	3.0E-04	mg/kg-day	2.1E-02
				Cadmium	5E+00	mg/kg	3.9E-09	mg/kg-day	N/A	N/A	N/A	1.4E-07	mg/kg-day	2.5E-05	mg/kg-day	5.4E-03
			Exp. Route Total								9E-07					3E-02
		Exposure Point Total									2E-06					9E-02

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station LP	Ingestion													
				Antimony	2E+00	mg/kg	1.2E-08	mg/kg-day	N/A	N/A	N/A	4.1E-07	mg/kg-day	4.0E-04	mg/kg-day	1.0E-03
				Arsenic	2E+02	mg/kg	1.0E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	7.9E-07	3.6E-05	mg/kg-day	5.9E-04	mg/kg-day	6.1E-02
				Barium	4E+01	mg/kg	2.5E-07	mg/kg-day	N/A	N/A	N/A	8.8E-06	mg/kg-day	7.0E-02	mg/kg-day	1.3E-04
				Cadmium	3E+00	mg/kg	1.8E-08	mg/kg-day	N/A	N/A	N/A	6.3E-07	mg/kg-day	1.0E-03	mg/kg-day	6.3E-04
				Chromium III	8E+01	mg/kg	5.2E-07	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	1.5E+00	mg/kg-day	1.2E-05
				Copper	4E+02	mg/kg	2.5E-06	mg/kg-day	N/A	N/A	N/A	8.7E-05	mg/kg-day	3.0E-02	mg/kg-day	2.9E-03
				Lead												
				Manganese	2E+02	mg/kg	1.4E-06	mg/kg-day	N/A	N/A	N/A	4.9E-05	mg/kg-day	7.0E-02	mg/kg-day	7.1E-04
				Mercury	7E-01	mg/kg	4.9E-09	mg/kg-day	N/A	N/A	N/A	1.7E-07	mg/kg-day	1.0E-04	mg/kg-day	1.7E-03
				Nickel	1E+01	mg/kg	9.6E-08	mg/kg-day	N/A	N/A	N/A	3.3E-06	mg/kg-day	2.0E-02	mg/kg-day	1.7E-04
				Thallium	2E+00	mg/kg	1.3E-08	mg/kg-day	N/A	N/A	N/A	4.5E-07	mg/kg-day	8.0E-05	mg/kg-day	5.6E-03
				Vanadium	2E+01	mg/kg	1.4E-07	mg/kg-day	N/A	N/A	N/A	5.0E-06	mg/kg-day	1.0E-03	mg/kg-day	5.0E-03
				Zinc	1E+03	mg/kg	8.8E-06	mg/kg-day	N/A	N/A	N/A	3.1E-04	mg/kg-day	3.0E-01	mg/kg-day	1.0E-03
			Exp. Route Total								8E-07					8E-02
			Dermal													
				Arsenic	2E+02	mg/kg	3.4E-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
				Cadmium	3E+00	mg/kg	2.0E-09	mg/kg-day	N/A	N/A	N/A	7.0E-08	mg/kg-day	2.5E-05	mg/kg-day	2.8E-03
			Exp. Route Total								5E-07					4E-02
		Exposure Point Total									1E-06					1E-01
		Station AS	Ingestion													
				Antimony	3E+00	mg/kg	1.7E-08	mg/kg-day	N/A	N/A	N/A	6.0E-07	mg/kg-day	4.0E-04	mg/kg-day	1.5E-03
				Arsenic	1E+02	mg/kg	7.9E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	6.1E-07	2.8E-05	mg/kg-day	5.9E-04	mg/kg-day	4.7E-02
				Barium	1E+02	mg/kg	6.9E-07	mg/kg-day	N/A	N/A	N/A	2.4E-05	mg/kg-day	7.0E-02	mg/kg-day	3.5E-04
				Cadmium	1E+01	mg/kg	8.1E-08	mg/kg-day	N/A	N/A	N/A	2.8E-06	mg/kg-day	1.0E-03	mg/kg-day	2.8E-03
				Chromium III	7E+02	mg/kg	5.1E-06	mg/kg-day	N/A	N/A	N/A	1.8E-04	mg/kg-day	1.5E+00	mg/kg-day	1.2E-04
				Copper	5E+02	mg/kg	3.5E-06	mg/kg-day	N/A	N/A	N/A	1.2E-04	mg/kg-day	3.0E-02	mg/kg-day	4.0E-03
				Lead												
				Manganese	4E+02	mg/kg	2.6E-06	mg/kg-day	N/A	N/A	N/A	9.1E-05	mg/kg-day	7.0E-02	mg/kg-day	1.3E-03
				Mercury	3E+00	mg/kg	2.1E-08	mg/kg-day	N/A	N/A	N/A	7.3E-07	mg/kg-day	1.0E-04	mg/kg-day	7.3E-03
				Nickel	4E+01	mg/kg	2.5E-07	mg/kg-day	N/A	N/A	N/A	8.8E-06	mg/kg-day	2.0E-02	mg/kg-day	4.4E-04
				Thallium	1E+00	mg/kg	7.3E-09	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	7E+01	mg/kg	4.5E-07	mg/kg-day	N/A	N/A	N/A	1.6E-05	mg/kg-day	1.0E-03	mg/kg-day	1.6E-02
				Zinc	2E+03	mg/kg	1.5E-05	mg/kg-day	N/A	N/A	N/A	5.2E-04	mg/kg-day	3.0E-01	mg/kg-day	1.7E-03
			Exp. Route Total								6E-07					9E-02
			Dermal													
				Arsenic	1E+02	mg/kg	2.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.0E-07	9.3E-06	mg/kg-day	3.0E-04	mg/kg-day	3.1E-02
				Cadmium	1E+01	mg/kg	9.1E-09	mg/kg-day	N/A	N/A	N/A	3.2E-07	mg/kg-day	2.5E-05	mg/kg-day	1.3E-02
			Exp. Route Total								4E-07					4E-02
		Exposure Point Total									1E-06					1E-01

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station 05	Ingestion													
				Benzo(a)anthracene	4E-01	mg/kg	2.9E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.1E-09	1.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	3E-01	mg/kg	2.3E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.7E-08	8.2E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	4E-01	mg/kg	2.4E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.7E-09	8.4E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	3E-01	mg/kg	1.7E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.3E-10	6.0E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	2E-01	mg/kg	1.2E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	8.6E-10	4.1E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	7E-01	mg/kg	4.6E-09	mg/kg-day	N/A	N/A	N/A	1.6E-07	mg/kg-day	2.0E-02	mg/kg-day	8.1E-06
				Antimony	9E-01	mg/kg	6.4E-09	mg/kg-day	N/A	N/A	N/A	2.2E-07	mg/kg-day	4.0E-04	mg/kg-day	5.6E-04
				Arsenic	8E+00	mg/kg	5.6E-08	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	4.3E-08	2.0E-06	mg/kg-day	5.9E-04	mg/kg-day	3.3E-03
				Barium	3E+01	mg/kg	2.3E-07	mg/kg-day	N/A	N/A	N/A	8.2E-06	mg/kg-day	7.0E-02	mg/kg-day	1.2E-04
				Cadmium	2E-01	mg/kg	1.5E-09	mg/kg-day	N/A	N/A	N/A	5.2E-08	mg/kg-day	1.0E-03	mg/kg-day	5.2E-05
				Chromium III	3E+01	mg/kg	2.3E-07	mg/kg-day	N/A	N/A	N/A	8.0E-06	mg/kg-day	1.5E+00	mg/kg-day	5.3E-06
				Copper	3E+01	mg/kg	1.7E-07	mg/kg-day	N/A	N/A	N/A	6.0E-06	mg/kg-day	3.0E-02	mg/kg-day	2.0E-04
				Lead												
				Manganese	4E+02	mg/kg	2.9E-06	mg/kg-day	N/A	N/A	N/A	1.0E-04	mg/kg-day	7.0E-02	mg/kg-day	1.4E-03
				Mercury	9E-02	mg/kg	6.1E-10	mg/kg-day	N/A	N/A	N/A	2.1E-08	mg/kg-day	1.0E-04	mg/kg-day	2.1E-04
				Nickel	1E+01	mg/kg	6.9E-08	mg/kg-day	N/A	N/A	N/A	2.4E-06	mg/kg-day	2.0E-02	mg/kg-day	1.2E-04
				Thallium	6E-01	mg/kg	4.2E-09	mg/kg-day	N/A	N/A	N/A	1.5E-07	mg/kg-day	8.0E-05	mg/kg-day	1.8E-03
				Vanadium	2E+01	mg/kg	1.3E-07	mg/kg-day	N/A	N/A	N/A	4.5E-06	mg/kg-day	1.0E-03	mg/kg-day	4.5E-03
				Zinc	1E+02	mg/kg	8.2E-07	mg/kg-day	N/A	N/A	N/A	2.9E-05	mg/kg-day	3.0E-01	mg/kg-day	9.6E-05
			Exp. Route Total								7E-08					1E-02
			Dermal													
				Benzo(a)anthracene	4E-01	mg/kg	4.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.1E-09	1.5E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	3E-01	mg/kg	3.4E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.5E-08	1.2E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	4E-01	mg/kg	3.5E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.5E-09	1.2E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	3E-01	mg/kg	2.5E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.8E-10	8.8E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	2E-01	mg/kg	1.7E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.2E-09	6.0E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	7E-01	mg/kg	6.7E-09	mg/kg-day	N/A	N/A	N/A	2.4E-07	mg/kg-day	2.0E-02	mg/kg-day	1.2E-05
				Arsenic	8E+00	mg/kg	1.9E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.8E-08	6.6E-07	mg/kg-day	3.0E-04	mg/kg-day	2.2E-03
				Cadmium	2E-01	mg/kg	1.7E-10	mg/kg-day	N/A	N/A	N/A	5.8E-09	mg/kg-day	2.5E-05	mg/kg-day	2.3E-04
			Exp. Route Total								6E-08					2E-03
		Exposure Point Total									1E-07					1E-02

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station 03	Ingestion													
				Benzo(a)anthracene	6E-01	mg/kg	3.8E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.8E-09	1.3E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	5E-01	mg/kg	3.2E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	2.3E-08	1.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	6E-01	mg/kg	4.1E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	3.0E-09	1.4E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	3E-01	mg/kg	2.3E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.7E-10	8.2E-08	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1E-01	mg/kg	7.5E-10	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	5.4E-09	2.6E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	mg/kg	2.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.7E-09	8.0E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	3.2E-09	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	2.0E-02	mg/kg-day	5.5E-06
				Aroclor 1260	5E-02	mg/kg	3.4E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	3.4E-10	1.2E-08	mg/kg-day	2.0E-05	mg/kg-day	5.9E-04
				Antimony	8E-01	mg/kg	5.4E-09	mg/kg-day	N/A	N/A	N/A	1.9E-07	mg/kg-day	4.0E-04	mg/kg-day	4.7E-04
				Arsenic	3E+01	mg/kg	2.2E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.7E-07	7.8E-06	mg/kg-day	5.9E-04	mg/kg-day	1.3E-02
				Barium	4E+01	mg/kg	2.4E-07	mg/kg-day	N/A	N/A	N/A	8.3E-06	mg/kg-day	7.0E-02	mg/kg-day	1.2E-04
				Cadmium	2E+00	mg/kg	1.2E-08	mg/kg-day	N/A	N/A	N/A	4.1E-07	mg/kg-day	1.0E-03	mg/kg-day	4.1E-04
				Chromium III	7E+01	mg/kg	5.0E-07	mg/kg-day	N/A	N/A	N/A	1.7E-05	mg/kg-day	1.5E+00	mg/kg-day	1.2E-05
				Copper	6E+01	mg/kg	4.2E-07	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	3.0E-02	mg/kg-day	4.9E-04
				Lead												
				Manganese	2E+02	mg/kg	1.5E-06	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	3E-01	mg/kg	1.8E-09	mg/kg-day	N/A	N/A	N/A	6.3E-08	mg/kg-day	1.0E-04	mg/kg-day	6.3E-04
				Nickel	1E+01	mg/kg	8.4E-08	mg/kg-day	N/A	N/A	N/A	2.9E-06	mg/kg-day	2.0E-02	mg/kg-day	1.5E-04
				Vanadium	2E+01	mg/kg	1.5E-07	mg/kg-day	N/A	N/A	N/A	5.3E-06	mg/kg-day	1.0E-03	mg/kg-day	5.3E-03
				Zinc	5E+02	mg/kg	3.6E-06	mg/kg-day	N/A	N/A	N/A	1.2E-04	mg/kg-day	3.0E-01	mg/kg-day	4.1E-04
			Exp. Route Total								2E-07					2E-02
			Dermal													
				Benzo(a)anthracene	6E-01	mg/kg	5.6E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.1E-09	2.0E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	5E-01	mg/kg	4.6E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	3.4E-08	1.6E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	6E-01	mg/kg	5.9E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	4.3E-09	2.1E-07	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	3E-01	mg/kg	3.4E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	2.5E-10	1.2E-07	mg/kg-day	N/A	N/A	N/A
				Dibenz(a,h)anthracene	1E-01	mg/kg	1.1E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	7.9E-09	3.8E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	3E-01	mg/kg	3.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	2.4E-09	1.2E-07	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	4.6E-09	mg/kg-day	N/A	N/A	N/A	1.6E-07	mg/kg-day	2.0E-02	mg/kg-day	8.0E-06
				Aroclor 1260	5E-02	mg/kg	5.3E-10	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	5.3E-10	1.9E-08	mg/kg-day	2.0E-05	mg/kg-day	9.3E-04
				Arsenic	3E+01	mg/kg	7.5E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.1E-07	2.6E-06	mg/kg-day	3.0E-04	mg/kg-day	8.8E-03
				Cadmium	2E+00	mg/kg	1.3E-09	mg/kg-day	N/A	N/A	N/A	4.6E-08	mg/kg-day	2.5E-05	mg/kg-day	1.9E-03
			Exp. Route Total								2E-07					1E-02
		Exposure Point Total									4E-07					3E-02

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Sediment (cont.)	Sediment (cont.)	Station 01	Ingestion													
				Benzo(a)anthracene	2E-01	mg/kg	1.3E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	9.5E-10	4.5E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(a)pyrene	2E-01	mg/kg	1.2E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	8.6E-09	4.1E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E-01	mg/kg	1.1E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	8.2E-10	3.9E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E-01	mg/kg	1.2E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	8.7E-11	4.2E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	8.1E-10	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	5.9E-10	2.8E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	3.1E-09	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	2.0E-02	mg/kg-day	5.5E-06
				Antimony	9E-01	mg/kg	6.0E-09	mg/kg-day	N/A	N/A	N/A	2.1E-07	mg/kg-day	4.0E-04	mg/kg-day	5.2E-04
				Arsenic	6E+00	mg/kg	4.2E-08	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.2E-08	1.5E-06	mg/kg-day	5.9E-04	mg/kg-day	2.5E-03
				Barium	1E+01	mg/kg	8.4E-08	mg/kg-day	N/A	N/A	N/A	2.9E-06	mg/kg-day	7.0E-02	mg/kg-day	4.2E-05
				Cadmium	2E-01	mg/kg	1.1E-09	mg/kg-day	N/A	N/A	N/A	3.9E-08	mg/kg-day	1.0E-03	mg/kg-day	3.9E-05
				Chromium III	8E+00	mg/kg	5.6E-08	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	1.5E+00	mg/kg-day	1.3E-06
				Copper	1E+01	mg/kg	8.0E-08	mg/kg-day	N/A	N/A	N/A	2.8E-06	mg/kg-day	3.0E-02	mg/kg-day	9.3E-05
				Lead												
				Manganese	8E+01	mg/kg	5.5E-07	mg/kg-day	N/A	N/A	N/A	1.9E-05	mg/kg-day	7.0E-02	mg/kg-day	2.8E-04
				Nickel	6E+00	mg/kg	4.3E-08	mg/kg-day	N/A	N/A	N/A	1.5E-06	mg/kg-day	2.0E-02	mg/kg-day	7.6E-05
				Thallium	5E-01	mg/kg	3.5E-09	mg/kg-day	N/A	N/A	N/A	1.2E-07	mg/kg-day	8.0E-05	mg/kg-day	1.5E-03
				Vanadium	1E+01	mg/kg	6.5E-08	mg/kg-day	N/A	N/A	N/A	2.3E-06	mg/kg-day	1.0E-03	mg/kg-day	2.3E-03
				Zinc	1E+02	mg/kg	6.9E-07	mg/kg-day	N/A	N/A	N/A	2.4E-05	mg/kg-day	3.0E-01	mg/kg-day	8.1E-05
			Exp. Route Total								4E-08					7E-03
			Dermal													
				Benzo(a)anthracene	2E-01	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
				Benzo(a)pyrene	2E-01	mg/kg	1.7E-09	mg/kg-day	7.3E+00	(mg/kg-day) $^{-1}$	1.3E-08	6.0E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(b)fluoranthene	2E-01	mg/kg	1.6E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	1.2E-09	5.7E-08	mg/kg-day	N/A	N/A	N/A
				Benzo(k)fluoranthene	2E-01	mg/kg	1.7E-09	mg/kg-day	7.3E-02	(mg/kg-day) $^{-1}$	1.3E-10	6.1E-08	mg/kg-day	N/A	N/A	N/A
				Indeno(1,2,3-cd)pyrene	1E-01	mg/kg	1.2E-09	mg/kg-day	7.3E-01	(mg/kg-day) $^{-1}$	8.7E-10	4.1E-08	mg/kg-day	N/A	N/A	N/A
				Phenanthrene	5E-01	mg/kg	4.6E-09	mg/kg-day	N/A	N/A	N/A	1.6E-07	mg/kg-day	2.0E-02	mg/kg-day	8.0E-06
				Arsenic	6E+00	mg/kg	1.4E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.1E-08	4.9E-07	mg/kg-day	3.0E-04	mg/kg-day	1.6E-03
				Cadmium	2E-01	mg/kg	1.3E-10	mg/kg-day	N/A	N/A	N/A	4.4E-09	mg/kg-day	2.5E-05	mg/kg-day	1.8E-04
			Exp. Route Total								4E-08					2E-03
		Exposure Point Total									8E-08					9E-03
	Exposure Medium Total										N/A					N/A

TABLE 3-7.4.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Soil	Surface Soil	Station NR	Ingestion													
				Arsenic	2E+02	mg/kg	1.4E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.0E-06	4.8E-05	mg/kg-day	3.0E-04	mg/kg-day	1.6E-01
				Cadmium	2E+00	mg/kg	1.4E-08	mg/kg-day	N/A	N/A	N/A	5.1E-07	mg/kg-day	1.0E-03	mg/kg-day	5.1E-04
				Chromium VI	2E+02	mg/kg	1.2E-06	mg/kg-day	N/A	N/A	N/A	4.1E-05	mg/kg-day	3.0E-03	mg/kg-day	1.4E-02
				Copper	2E+02	mg/kg	1.2E-06	mg/kg-day	N/A	N/A	N/A	4.1E-05	mg/kg-day	3.0E-02	mg/kg-day	1.4E-03
				Manganese	3E+02	mg/kg	2.1E-06	mg/kg-day	N/A	N/A	N/A	7.3E-05	mg/kg-day	7.0E-02	mg/kg-day	1.0E-03
				Mercury	8E-01	mg/kg	5.5E-09	mg/kg-day	N/A	N/A	N/A	1.9E-07	mg/kg-day	1.0E-04	mg/kg-day	1.9E-03
				Vanadium	3E+01	mg/kg	1.7E-07	mg/kg-day	N/A	N/A	N/A	6.0E-06	mg/kg-day	1.0E-03	mg/kg-day	6.0E-03
				Zinc	5E+02	mg/kg	3.6E-06	mg/kg-day	N/A	N/A	N/A	1.2E-04	mg/kg-day	3.0E-01	mg/kg-day	4.2E-04
			Exp. Route Total								2E-06					2E-01
			Dermal													
				Arsenic	2E+02	mg/kg	4.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.9E-07	1.6E-05	mg/kg-day	3.0E-04	mg/kg-day	5.3E-02
				Cadmium	2E+00	mg/kg	1.6E-09	mg/kg-day	N/A	N/A	N/A	5.7E-08	mg/kg-day	2.5E-05	mg/kg-day	2.3E-03
			Exp. Route Total								7E-07					6E-02
		Exposure Point Total									3E-06					2E-01
		Station WS/WSS	Ingestion													
				Arsenic	1E+01	mg/kg	1.2E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.8E-06	1.4E-05	mg/kg-day	3.0E-04	mg/kg-day	4.8E-02
				Cadmium	2E-01	mg/kg	2.4E-08	mg/kg-day	N/A	N/A	N/A	2.8E-07	mg/kg-day	1.0E-03	mg/kg-day	2.8E-04
				Chromium VI	2E+01	mg/kg	2.2E-06	mg/kg-day	N/A	N/A	N/A	2.6E-05	mg/kg-day	3.0E-03	mg/kg-day	8.7E-03
				Copper	3E+01	mg/kg	3.3E-06	mg/kg-day	N/A	N/A	N/A	3.8E-05	mg/kg-day	3.0E-02	mg/kg-day	1.3E-03
				Manganese	2E+02	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	3.9E-03
				Mercury	1E-01	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	1E+00	mg/kg	1.5E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	8.0E-05	mg/kg-day	2.1E-02
				Vanadium	2E+01	mg/kg	2.9E-06	mg/kg-day	N/A	N/A	N/A	3.4E-05	mg/kg-day	1.0E-03	mg/kg-day	3.4E-02
				Zinc	7E+01	mg/kg	8.8E-06	mg/kg-day	N/A	N/A	N/A	1.0E-04	mg/kg-day	3.0E-01	mg/kg-day	3.4E-04
			Exp. Route Total								2E-06					1E-01
			Dermal													
				Arsenic	1E+01	mg/kg	6.8E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.0E-07	2.4E-06	mg/kg-day	3.0E-04	mg/kg-day	8.0E-03
				Cadmium	2E-01	mg/kg	4.4E-10	mg/kg-day	N/A	N/A	N/A	1.6E-08	mg/kg-day	2.5E-05	mg/kg-day	6.2E-04
			Exp. Route Total								1E-07					9E-03
		Exposure Point Total									2E-06					1E-01

TABLE 3-7.4.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Soil (cont.)	Surface Soil (cont.)	Station CB-05	Ingestion													
				Arsenic	6E+01	mg/kg	7.3E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.1E-05	8.5E-05	mg/kg-day	3.0E-04	mg/kg-day	2.8E-01
				Cadmium	7E-01	mg/kg	8.3E-08	mg/kg-day	N/A	N/A	N/A	9.7E-07	mg/kg-day	1.0E-03	mg/kg-day	9.7E-04
				Chromium VI	1E+02	mg/kg	1.7E-05	mg/kg-day	N/A	N/A	N/A	2.0E-04	mg/kg-day	3.0E-03	mg/kg-day	6.5E-02
				Copper	5E+01	mg/kg	6.2E-06	mg/kg-day	N/A	N/A	N/A	7.2E-05	mg/kg-day	3.0E-02	mg/kg-day	2.4E-03
				Manganese	2E+02	mg/kg	2.8E-05	mg/kg-day	N/A	N/A	N/A	3.2E-04	mg/kg-day	7.0E-02	mg/kg-day	4.6E-03
				Mercury	3E-01	mg/kg	3.5E-08	mg/kg-day	N/A	N/A	N/A	4.1E-07	mg/kg-day	1.0E-04	mg/kg-day	4.1E-03
				Thallium	2E+00	mg/kg	2.0E-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	3E+01	mg/kg	3.2E-06	mg/kg-day	N/A	N/A	N/A	3.7E-05	mg/kg-day	1.0E-03	mg/kg-day	3.7E-02
				Zinc	2E+02	mg/kg	2.0E-05	mg/kg-day	N/A	N/A	N/A	2.4E-04	mg/kg-day	3.0E-01	mg/kg-day	7.9E-04
			Exp. Route Total								1E-05					4E-01
			Dermal													
				Arsenic	6E+01	mg/kg	4.1E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.1E-07	1.4E-05	mg/kg-day	3.0E-04	mg/kg-day	4.8E-02
				Cadmium	7E-01	mg/kg	1.6E-09	mg/kg-day	N/A	N/A	N/A	5.4E-08	mg/kg-day	2.5E-05	mg/kg-day	2.2E-03
			Exp. Route Total								6E-07					5E-02
		Exposure Point Total									1E-05					5E-01
		Station DA	Ingestion													
				Arsenic	2E+02	mg/kg	1.3E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.0E-06	4.6E-05	mg/kg-day	3.0E-04	mg/kg-day	1.5E-01
				Cadmium	1E+00	mg/kg	9.2E-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
				Chromium VI	4E+02	mg/kg	2.7E-06	mg/kg-day	N/A	N/A	N/A	9.3E-05	mg/kg-day	3.0E-03	mg/kg-day	3.1E-02
				Copper	2E+02	mg/kg	1.7E-06	mg/kg-day	N/A	N/A	N/A	5.9E-05	mg/kg-day	3.0E-02	mg/kg-day	2.0E-03
				Manganese	8E+02	mg/kg	5.4E-06	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	8.1E-09	mg/kg-day	N/A	N/A	N/A	2.8E-07	mg/kg-day	1.0E-04	mg/kg-day	2.8E-03
				Thallium	3E+00	mg/kg	2.3E-08	mg/kg-day	N/A	N/A	N/A	7.9E-07	mg/kg-day	8.0E-05	mg/kg-day	9.9E-03
				Vanadium	4E+01	mg/kg	2.6E-07	mg/kg-day	N/A	N/A	N/A	9.0E-06	mg/kg-day	1.0E-03	mg/kg-day	9.0E-03
				Zinc	6E+02	mg/kg	4.0E-06	mg/kg-day	N/A	N/A	N/A	1.4E-04	mg/kg-day	3.0E-01	mg/kg-day	4.7E-04
			Exp. Route Total								2E-06					2E-01
			Dermal													
				Arsenic	2E+02	mg/kg	4.4E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.7E-07	1.6E-05	mg/kg-day	3.0E-04	mg/kg-day	5.2E-02
				Cadmium	1E+00	mg/kg	1.0E-09	mg/kg-day	N/A	N/A	N/A	3.6E-08	mg/kg-day	2.5E-05	mg/kg-day	1.4E-03
			Exp. Route Total								7E-07					5E-02
		Exposure Point Total									3E-06					3E-01

TABLE 3-7.4.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	
Soil (cont.)	Surface Soil (cont.)	Station KF	Ingestion													
				Arsenic	5E+01	mg/kg	3.1E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.7E-07	1.1E-05	mg/kg-day	3.0E-04	mg/kg-day	3.6E-02
				Cadmium	1E+00	mg/kg	9.6E-09	mg/kg-day	N/A	N/A	N/A	3.3E-07	mg/kg-day	1.0E-03	mg/kg-day	3.3E-04
				Chromium VI	1E+02	mg/kg	8.1E-07	mg/kg-day	N/A	N/A	N/A	2.8E-05	mg/kg-day	3.0E-03	mg/kg-day	9.4E-03
				Copper	1E+02	mg/kg	7.3E-07	mg/kg-day	N/A	N/A	N/A	2.6E-05	mg/kg-day	3.0E-02	mg/kg-day	8.8E-04
				Manganese	8E+02	mg/kg	5.6E-06	mg/kg-day	N/A	N/A	N/A	2.0E-04	mg/kg-day	7.0E-02	mg/kg-day	2.8E-03
				Mercury	7E-01	mg/kg	4.7E-09	mg/kg-day	N/A	N/A	N/A	1.6E-07	mg/kg-day	1.0E-04	mg/kg-day	1.6E-03
				Vanadium	3E+01	mg/kg	2.0E-07	mg/kg-day	N/A	N/A	N/A	6.9E-06	mg/kg-day	1.0E-03	mg/kg-day	6.9E-03
				Zinc	4E+02	mg/kg	2.6E-06	mg/kg-day	N/A	N/A	N/A	9.3E-05	mg/kg-day	3.0E-01	mg/kg-day	3.1E-04
			Exp. Route Total								5E-07					6E-02
			Dermal													
				Arsenic	5E+01	mg/kg	1.0E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.6E-07	3.7E-06	mg/kg-day	3.0E-04	mg/kg-day	1.2E-02
				Cadmium	1E+00	mg/kg	1.1E-09	mg/kg-day	N/A	N/A	N/A	3.7E-08	mg/kg-day	2.5E-05	mg/kg-day	1.5E-03
			Exp. Route Total								2E-07					1E-02
		Exposure Point Total									6E-07					7E-02
		Station 07/DP	Ingestion													
				Arsenic	4E+01	mg/kg	3.0E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.5E-07	1.1E-05	mg/kg-day	3.0E-04	mg/kg-day	3.5E-02
				Cadmium	2E-01	mg/kg	1.3E-09	mg/kg-day	N/A	N/A	N/A	4.5E-08	mg/kg-day	1.0E-03	mg/kg-day	4.5E-05
				Chromium VI	1E+02	mg/kg	9.5E-07	mg/kg-day	N/A	N/A	N/A	3.3E-05	mg/kg-day	3.0E-03	mg/kg-day	1.1E-02
				Copper	1E+02	mg/kg	6.9E-07	mg/kg-day	N/A	N/A	N/A	2.4E-05	mg/kg-day	3.0E-02	mg/kg-day	8.0E-04
				Manganese	3E+02	mg/kg	2.2E-06	mg/kg-day	N/A	N/A	N/A	7.8E-05	mg/kg-day	7.0E-02	mg/kg-day	1.1E-03
				Mercury	1E+00	mg/kg	6.5E-09	mg/kg-day	N/A	N/A	N/A	2.3E-07	mg/kg-day	1.0E-04	mg/kg-day	2.3E-03
				Thallium	2E+00	mg/kg	1.3E-08	mg/kg-day	N/A	N/A	N/A	4.5E-07	mg/kg-day	8.0E-05	mg/kg-day	5.6E-03
				Vanadium	3E+01	mg/kg	2.1E-07	mg/kg-day	N/A	N/A	N/A	7.5E-06	mg/kg-day	1.0E-03	mg/kg-day	7.5E-03
				Zinc	2E+04	mg/kg	1.3E-04	mg/kg-day	N/A	N/A	N/A	4.5E-03	mg/kg-day	3.0E-01	mg/kg-day	1.5E-02
			Exp. Route Total								5E-07					8E-02
			Dermal													
				Arsenic	4E+01	mg/kg	1.0E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.5E-07	3.6E-06	mg/kg-day	3.0E-04	mg/kg-day	1.2E-02
				Cadmium	2E-01	mg/kg	1.4E-10	mg/kg-day	N/A	N/A	N/A	5.0E-09	mg/kg-day	2.5E-05	mg/kg-day	2.0E-04
			Exp. Route Total								2E-07					1E-02
		Exposure Point Total									6E-07					9E-02
	Exposure Medium Total										N/A					N/A
Medium Total											N/A					N/A
											Total of Receptor Risks Across All Media					Total of Receptor Hazards Across All Media
											N/A					N/A

TABLE 3-7.5.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Older 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	Fish Fillet Tissue	Fillet, Reach 3	Ingestion													
				4,4'-DDD	7E-03	mg/kg	6.0E-08	mg/kg-day	2.4E-01	(mg/kg-day) $^{-1}$	1.4E-08	7.0E-07	mg/kg-day	2.0E-03	mg/kg-day	3.5E-04
				4,4'-DDE	2E-02	mg/kg	1.4E-07	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	4.8E-08	1.7E-06	mg/kg-day	3.0E-04	mg/kg-day	5.5E-03
				4,4'-DDT	3E-03	mg/kg	2.5E-08	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	8.6E-09	3.0E-07	mg/kg-day	5.0E-04	mg/kg-day	5.9E-04
				Aldrin	3E-04	mg/kg	2.9E-09	mg/kg-day	1.7E+01	(mg/kg-day) $^{-1}$	4.9E-08	3.4E-08	mg/kg-day	3.0E-05	mg/kg-day	1.1E-03
				alpha-Chlordane	6E-03	mg/kg	5.2E-08	mg/kg-day	3.5E-01	(mg/kg-day) $^{-1}$	1.8E-08	6.0E-07	mg/kg-day	5.0E-04	mg/kg-day	1.2E-03
				Aroclor-1254	2E-02	mg/kg	2.0E-07	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	3.9E-07	2.3E-06	mg/kg-day	2.0E-05	mg/kg-day	1.1E-01
				Aroclor-1260	6E-02	mg/kg	5.6E-07	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.1E-06	6.6E-06	mg/kg-day	2.0E-05	mg/kg-day	3.3E-01
				delta-BHC	6E-04	mg/kg	5.2E-09	mg/kg-day	N/A	N/A	N/A	6.1E-08	mg/kg-day	3.0E-04	mg/kg-day	2.0E-04
				Dieldrin	2E-03	mg/kg	2.0E-08	mg/kg-day	1.6E+01	(mg/kg-day) $^{-1}$	3.2E-07	2.3E-07	mg/kg-day	5.0E-05	mg/kg-day	4.7E-03
				Heptachlor epoxide	8E-04	mg/kg	7.6E-09	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	6.9E-08	8.9E-08	mg/kg-day	1.3E-05	mg/kg-day	6.8E-03
				Antimony	9E-02	mg/kg	8.5E-07	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	4.0E-04	mg/kg-day	2.5E-02
				Lead												
				Mercury	4E-01	mg/kg	3.3E-06	mg/kg-day	N/A	N/A	N/A	3.8E-05	mg/kg-day	1.0E-04	mg/kg-day	3.8E-01
				Selenium	6E-01	mg/kg	5.2E-06	mg/kg-day	N/A	N/A	N/A	6.0E-05	mg/kg-day	5.0E-03	mg/kg-day	1.2E-02
			Exp. Route Total								2E-06					9E-01
		Exposure Point Total									2E-06					9E-01
		Fillet, Reaches 4 and 5	Ingestion													
				4,4'-DDD	2E-02	mg/kg	1.4E-07	mg/kg-day	2.4E-01	(mg/kg-day) $^{-1}$	3.4E-08	1.7E-06	mg/kg-day	2.0E-03	mg/kg-day	8.3E-04
				4,4'-DDE	9E-02	mg/kg	7.7E-07	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	2.6E-07	9.0E-06	mg/kg-day	3.0E-04	mg/kg-day	3.0E-02
				4,4'-DDT	8E-03	mg/kg	7.2E-08	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	2.5E-08	8.5E-07	mg/kg-day	5.0E-04	mg/kg-day	1.7E-03
				Aldrin	5E-04	mg/kg	4.8E-09	mg/kg-day	1.7E+01	(mg/kg-day) $^{-1}$	8.1E-08	5.6E-08	mg/kg-day	3.0E-05	mg/kg-day	1.9E-03
				alpha-Chlordane	3E-03	mg/kg	2.3E-08	mg/kg-day	3.5E-01	(mg/kg-day) $^{-1}$	8.0E-09	2.7E-07	mg/kg-day	5.0E-04	mg/kg-day	5.3E-04
				Aroclor-1254	9E-02	mg/kg	7.7E-07	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.5E-06	9.0E-06	mg/kg-day	2.0E-05	mg/kg-day	4.5E-01
				Aroclor-1260	2E-01	mg/kg	1.7E-06	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	3.4E-06	2.0E-05	mg/kg-day	2.0E-05	mg/kg-day	9.9E-01
				Dieldrin	2E-03	mg/kg	1.3E-08	mg/kg-day	1.6E+01	(mg/kg-day) $^{-1}$	2.2E-07	1.6E-07	mg/kg-day	5.0E-05	mg/kg-day	3.1E-03
				Antimony	8E-02	mg/kg	6.9E-07	mg/kg-day	N/A	N/A	N/A	8.0E-06	mg/kg-day	4.0E-04	mg/kg-day	2.0E-02
				Lead												
				Mercury	3E-01	mg/kg	2.7E-06	mg/kg-day	N/A	N/A	N/A	3.2E-05	mg/kg-day	1.0E-04	mg/kg-day	3.2E-01
				Selenium	7E-01	mg/kg	6.1E-06	mg/kg-day	N/A	N/A	N/A	7.1E-05	mg/kg-day	5.0E-03	mg/kg-day	1.4E-02
			Exp. Route Total								6E-06					2E+00
		Exposure Point Total									6E-06					2E+00

TABLE 3-7.5.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Older 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 (cont.)	Fish Fillet Tissue (cont.)	Fillet, Reach 6	Ingestion													
				4,4'-DDD	2E-02	mg/kg	1.8E-07	mg/kg-day	2.4E-01	(mg/kg-day) $^{-1}$	4.3E-08	2.1E-06	mg/kg-day	2.0E-03	mg/kg-day	1.0E-03
				4,4'-DDE	6E-02	mg/kg	5.2E-07	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	1.8E-07	6.1E-06	mg/kg-day	3.0E-04	mg/kg-day	2.0E-02
				4,4'-DDT	5E-03	mg/kg	4.2E-08	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	1.4E-08	4.9E-07	mg/kg-day	5.0E-04	mg/kg-day	9.8E-04
				Aldrin	5E-04	mg/kg	4.8E-09	mg/kg-day	1.7E+01	(mg/kg-day) $^{-1}$	8.1E-08	5.6E-06	mg/kg-day	3.0E-05	mg/kg-day	1.9E-03
				alpha-Chlordane	8E-03	mg/kg	7.5E-08	mg/kg-day	3.5E-01	(mg/kg-day) $^{-1}$	2.6E-08	8.8E-07	mg/kg-day	5.0E-04	mg/kg-day	1.8E-03
				Aroclor-1248	8E-03	mg/kg	7.1E-08	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.4E-07	8.3E-07	mg/kg-day	2.0E-05	mg/kg-day	4.1E-02
				Aroclor-1254	1E-01	mg/kg	1.1E-06	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	2.3E-06	1.3E-05	mg/kg-day	2.0E-05	mg/kg-day	6.7E-01
				Aroclor-1260	8E-02	mg/kg	7.0E-07	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.4E-06	8.2E-06	mg/kg-day	2.0E-05	mg/kg-day	4.1E-01
				Dieldrin	2E-03	mg/kg	2.1E-08	mg/kg-day	1.6E+01	(mg/kg-day) $^{-1}$	3.3E-07	2.4E-07	mg/kg-day	5.0E-05	mg/kg-day	4.8E-03
				Heptachlor epoxide	5E-04	mg/kg	4.8E-09	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	4.3E-08	5.6E-06	mg/kg-day	1.3E-05	mg/kg-day	4.3E-03
				Arsenic	2E-01	mg/kg	1.4E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.1E-06	1.6E-05	mg/kg-day	3.0E-04	mg/kg-day	5.5E-02
				Lead												
				Mercury	2E-01	mg/kg	1.8E-06	mg/kg-day	N/A	N/A	N/A	2.1E-05	mg/kg-day	1.0E-04	mg/kg-day	2.1E-01
				Selenium	6E-01	mg/kg	5.6E-06	mg/kg-day	N/A	N/A	N/A	6.5E-05	mg/kg-day	5.0E-03	mg/kg-day	1.3E-02
			Exp. Route Total								7E-06					1E+00
		Exposure Point Total									7E-06					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 3-7.5.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Older 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	Fish Fillet Tissue	Fillet, Reach 3	Ingestion													
				4,4'-DDD	7E-03	mg/kg	7.7E-09	mg/kg-day	2.4E-01	(mg/kg-day) $^{-1}$	1.8E-09	2.7E-07	mg/kg-day	2.0E-03	mg/kg-day	1.3E-04
				4,4'-DDE	2E-02	mg/kg	1.8E-08	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	6.2E-09	6.4E-07	mg/kg-day	3.0E-04	mg/kg-day	2.1E-03
				4,4'-DDT	3E-03	mg/kg	3.2E-09	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	1.1E-09	1.1E-07	mg/kg-day	5.0E-04	mg/kg-day	2.3E-04
				Aldrin	3E-04	mg/kg	3.7E-10	mg/kg-day	1.7E+01	(mg/kg-day) $^{-1}$	6.3E-09	1.3E-08	mg/kg-day	3.0E-05	mg/kg-day	4.3E-04
				alpha-Chlordane	6E-03	mg/kg	6.6E-09	mg/kg-day	3.5E-01	(mg/kg-day) $^{-1}$	2.3E-09	2.3E-07	mg/kg-day	5.0E-04	mg/kg-day	4.7E-04
				Aroclor-1254	2E-02	mg/kg	2.5E-08	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	2.5E-08	8.8E-07	mg/kg-day	2.0E-05	mg/kg-day	4.4E-02
				Aroclor-1260	6E-02	mg/kg	7.2E-08	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	7.2E-08	2.5E-06	mg/kg-day	2.0E-05	mg/kg-day	1.3E-01
				delta-BHC	5E-04	mg/kg	6.2E-10	mg/kg-day	N/A	N/A	N/A	2.2E-08	mg/kg-day	3.0E-04	mg/kg-day	7.3E-05
				Dieldrin	2E-03	mg/kg	2.6E-09	mg/kg-day	1.6E+01	(mg/kg-day) $^{-1}$	4.1E-08	9.0E-08	mg/kg-day	5.0E-05	mg/kg-day	1.8E-03
				Heptachlor epoxide	8E-04	mg/kg	9.8E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	8.9E-09	3.4E-08	mg/kg-day	1.3E-05	mg/kg-day	2.6E-03
				Antimony	9E-02	mg/kg	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.8E-06	mg/kg-day	4.0E-04	mg/kg-day	9.6E-03
				Lead												
				Mercury	4E-01	mg/kg	4.2E-07	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	1.0E-04	mg/kg-day	1.5E-01
				Selenium	6E-01	mg/kg	6.6E-07	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	5.0E-03	mg/kg-day	4.6E-03
			Exp. Route Total								2E-07					3E-01
		Exposure Point Total									2E-07					3E-01
		Fillet, Reaches 4 and 5	Ingestion													
				4,4'-DDD	2E-02	mg/kg	1.8E-08	mg/kg-day	2.4E-01	(mg/kg-day) $^{-1}$	4.4E-09	6.4E-07	mg/kg-day	2.0E-03	mg/kg-day	3.2E-04
				4,4'-DDE	9E-02	mg/kg	9.9E-08	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	3.4E-08	3.5E-06	mg/kg-day	3.0E-04	mg/kg-day	1.2E-02
				4,4'-DDT	8E-03	mg/kg	9.3E-09	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	3.2E-09	3.3E-07	mg/kg-day	5.0E-04	mg/kg-day	6.5E-04
				Aldrin	5E-04	mg/kg	6.1E-10	mg/kg-day	1.7E+01	(mg/kg-day) $^{-1}$	1.0E-08	2.1E-08	mg/kg-day	3.0E-05	mg/kg-day	7.1E-04
				alpha-Chlordane	3E-03	mg/kg	2.9E-09	mg/kg-day	3.5E-01	(mg/kg-day) $^{-1}$	1.0E-09	1.0E-07	mg/kg-day	5.0E-04	mg/kg-day	2.0E-04
				Aroclor-1254	9E-02	mg/kg	9.9E-08	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	9.9E-08	3.5E-06	mg/kg-day	2.0E-05	mg/kg-day	1.7E-01
				Aroclor-1260	2E-01	mg/kg	2.2E-07	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	2.2E-07	7.6E-06	mg/kg-day	2.0E-05	mg/kg-day	3.8E-01
				Dieldrin	1E-03	mg/kg	1.7E-09	mg/kg-day	1.6E+01	(mg/kg-day) $^{-1}$	2.7E-08	5.9E-08	mg/kg-day	5.0E-05	mg/kg-day	1.2E-03
				Antimony	8E-02	mg/kg	8.8E-08	mg/kg-day	N/A	N/A	N/A	3.1E-06	mg/kg-day	4.0E-04	mg/kg-day	7.7E-03
				Lead												
				Mercury	3E-01	mg/kg	3.5E-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
				Selenium	7E-01	mg/kg	7.8E-07	mg/kg-day	N/A	N/A	N/A	2.7E-05	mg/kg-day	5.0E-03	mg/kg-day	5.5E-03
			Exp. Route Total								4E-07					7E-01
		Exposure Point Total									4E-07					7E-01

TABLE 3-7.5.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Recreational User
Receptor Age: Older 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 (cont.)	Fish Fillet Tissue (cont.)	Fillet, Reach 6	Ingestion													
				4,4'-DDD	2E-02	mg/kg	2.3E-08	mg/kg-day	2.4E-01	(mg/kg-day) $^{-1}$	5.5E-09	8.1E-07	mg/kg-day	2.0E-03	mg/kg-day	4.0E-04
				4,4'-DDE	6E-02	mg/kg	6.7E-08	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	2.3E-08	2.3E-06	mg/kg-day	3.0E-04	mg/kg-day	7.8E-03
				4,4'-DDT	5E-03	mg/kg	5.4E-08	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	1.8E-08	1.9E-07	mg/kg-day	5.0E-04	mg/kg-day	3.8E-04
				Aldrin	5E-04	mg/kg	6.1E-10	mg/kg-day	1.7E+01	(mg/kg-day) $^{-1}$	1.0E-08	2.1E-08	mg/kg-day	3.0E-05	mg/kg-day	7.1E-04
				alpha-Chlordane	8E-03	mg/kg	9.6E-09	mg/kg-day	3.5E-01	(mg/kg-day) $^{-1}$	3.4E-09	3.4E-07	mg/kg-day	5.0E-04	mg/kg-day	6.7E-04
				Aroclor-1248	8E-03	mg/kg	9.1E-09	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	9.1E-09	3.2E-07	mg/kg-day	2.0E-05	mg/kg-day	1.6E-02
				Aroclor-1254	1E-01	mg/kg	1.5E-07	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	1.5E-07	5.2E-06	mg/kg-day	2.0E-05	mg/kg-day	2.6E-01
				Aroclor-1260	8E-02	mg/kg	9.0E-08	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	9.0E-08	3.2E-06	mg/kg-day	2.0E-05	mg/kg-day	1.6E-01
				Dieldrin	2E-03	mg/kg	2.5E-09	mg/kg-day	1.6E+01	(mg/kg-day) $^{-1}$	3.9E-08	8.6E-08	mg/kg-day	5.0E-05	mg/kg-day	1.7E-03
				Heptachlor epoxide	5E-04	mg/kg	6.1E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	5.6E-09	2.1E-08	mg/kg-day	1.3E-05	mg/kg-day	1.6E-03
				Arsenic	2E-01	mg/kg	1.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.7E-07	6.3E-06	mg/kg-day	3.0E-04	mg/kg-day	2.1E-02
				Lead												
				Mercury	1E-01	mg/kg	1.7E-07	mg/kg-day	N/A	N/A	N/A	5.9E-06	mg/kg-day	1.0E-04	mg/kg-day	5.9E-02
				Selenium	6E-01	mg/kg	7.2E-07	mg/kg-day	N/A	N/A	N/A	2.5E-05	mg/kg-day	5.0E-03	mg/kg-day	5.0E-03
			Exp. Route Total								6E-07					5E-01
		Exposure Point Total									6E-07					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 3-7.6.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	Fish Fillet Tissue	Fillet, Reach 3	Ingestion													
				4,4'-DDD	7E-03	mg/kg	6.0E-08	mg/kg-day	2.4E-01	(mg/kg-day) $^{-1}$	1.4E-08	7.0E-07	mg/kg-day	2.0E-03	mg/kg-day	3.5E-04
				4,4'-DDE	2E-02	mg/kg	1.4E-07	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	4.8E-08	1.7E-06	mg/kg-day	3.0E-04	mg/kg-day	5.5E-03
				4,4'-DDT	3E-03	mg/kg	2.5E-08	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	8.6E-09	3.0E-07	mg/kg-day	5.0E-04	mg/kg-day	5.9E-04
				Aldrin	3E-04	mg/kg	2.9E-09	mg/kg-day	1.7E+01	(mg/kg-day) $^{-1}$	4.9E-08	3.4E-08	mg/kg-day	3.0E-05	mg/kg-day	1.1E-03
				alpha-Chlordane	6E-03	mg/kg	5.2E-08	mg/kg-day	3.5E-01	(mg/kg-day) $^{-1}$	1.8E-08	6.0E-07	mg/kg-day	5.0E-04	mg/kg-day	1.2E-03
				Aroclor-1254	2E-02	mg/kg	2.0E-07	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	3.9E-07	2.3E-06	mg/kg-day	2.0E-05	mg/kg-day	1.1E-01
				Aroclor-1260	6E-02	mg/kg	5.6E-07	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.1E-06	6.6E-06	mg/kg-day	2.0E-05	mg/kg-day	3.3E-01
				delta-BHC	6E-04	mg/kg	5.2E-09	mg/kg-day	N/A	N/A	N/A	6.1E-08	mg/kg-day	3.0E-04	mg/kg-day	2.0E-04
				Dieldrin	2E-03	mg/kg	2.0E-08	mg/kg-day	1.6E+01	(mg/kg-day) $^{-1}$	3.2E-07	2.3E-07	mg/kg-day	5.0E-05	mg/kg-day	4.7E-03
				Heptachlor epoxide	8E-04	mg/kg	7.6E-09	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	6.9E-08	8.9E-08	mg/kg-day	1.3E-05	mg/kg-day	6.8E-03
				Antimony	9E-02	mg/kg	8.5E-07	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	4.0E-04	mg/kg-day	2.5E-02
				Lead												
				Mercury	4E-01	mg/kg	3.3E-06	mg/kg-day	N/A	N/A	N/A	3.8E-05	mg/kg-day	1.0E-04	mg/kg-day	3.8E-01
				Selenium	6E-01	mg/kg	5.2E-06	mg/kg-day	N/A	N/A	N/A	6.0E-05	mg/kg-day	5.0E-03	mg/kg-day	1.2E-02
			Exp. Route Total								2E-06					9E-01
		Exposure Point Total									2E-06					9E-01
		Fillet, Reaches 4 and 5	Ingestion													
				4,4'-DDD	2E-02	mg/kg	1.4E-07	mg/kg-day	2.4E-01	(mg/kg-day) $^{-1}$	3.4E-08	1.7E-06	mg/kg-day	2.0E-03	mg/kg-day	8.3E-04
				4,4'-DDE	9E-02	mg/kg	7.7E-07	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	2.6E-07	9.0E-06	mg/kg-day	3.0E-04	mg/kg-day	3.0E-02
				4,4'-DDT	8E-03	mg/kg	7.2E-08	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	2.5E-08	8.5E-07	mg/kg-day	5.0E-04	mg/kg-day	1.7E-03
				Aldrin	5E-04	mg/kg	4.8E-09	mg/kg-day	1.7E+01	(mg/kg-day) $^{-1}$	8.1E-08	5.6E-08	mg/kg-day	3.0E-05	mg/kg-day	1.9E-03
				alpha-Chlordane	3E-03	mg/kg	2.3E-08	mg/kg-day	3.5E-01	(mg/kg-day) $^{-1}$	8.0E-09	2.7E-07	mg/kg-day	5.0E-04	mg/kg-day	5.3E-04
				Aroclor-1254	9E-02	mg/kg	7.7E-07	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.5E-06	9.0E-06	mg/kg-day	2.0E-05	mg/kg-day	4.5E-01
				Aroclor-1260	2E-01	mg/kg	1.7E-06	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	3.4E-06	2.0E-05	mg/kg-day	2.0E-05	mg/kg-day	9.9E-01
				Dieldrin	2E-03	mg/kg	1.3E-08	mg/kg-day	1.6E+01	(mg/kg-day) $^{-1}$	2.2E-07	1.6E-07	mg/kg-day	5.0E-05	mg/kg-day	3.1E-03
				Antimony	8E-02	mg/kg	6.9E-07	mg/kg-day	N/A	N/A	N/A	8.0E-06	mg/kg-day	4.0E-04	mg/kg-day	2.0E-02
				Lead												
				Mercury	3E-01	mg/kg	2.7E-06	mg/kg-day	N/A	N/A	N/A	3.2E-05	mg/kg-day	1.0E-04	mg/kg-day	3.2E-01
				Selenium	7E-01	mg/kg	6.1E-06	mg/kg-day	N/A	N/A	N/A	7.1E-05	mg/kg-day	5.0E-03	mg/kg-day	1.4E-02
			Exp. Route Total								6E-06					2E+00
		Exposure Point Total									6E-06					2E+00

TABLE 3-7.6.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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 (cont.)	Fish Fillet Tissue (cont.)	Fillet, Reach 6	Ingestion													
				4,4'-DDD	2E-02	mg/kg	1.8E-07	mg/kg-day	2.4E-01	(mg/kg-day) $^{-1}$	4.3E-08	2.1E-06	mg/kg-day	2.0E-03	mg/kg-day	1.0E-03
				4,4'-DDE	6E-02	mg/kg	5.2E-07	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	1.8E-07	6.1E-06	mg/kg-day	3.0E-04	mg/kg-day	2.0E-02
				4,4'-DDT	5E-03	mg/kg	4.2E-08	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	1.4E-08	4.9E-07	mg/kg-day	5.0E-04	mg/kg-day	9.8E-04
				Aldrin	5E-04	mg/kg	4.8E-09	mg/kg-day	1.7E+01	(mg/kg-day) $^{-1}$	8.1E-08	5.6E-08	mg/kg-day	3.0E-05	mg/kg-day	1.9E-03
				alpha-Chlordane	8E-03	mg/kg	7.5E-08	mg/kg-day	3.5E-01	(mg/kg-day) $^{-1}$	2.6E-08	8.8E-07	mg/kg-day	5.0E-04	mg/kg-day	1.8E-03
				Aroclor-1248	8E-03	mg/kg	7.1E-08	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.4E-07	8.3E-07	mg/kg-day	2.0E-05	mg/kg-day	4.1E-02
				Aroclor-1254	1E-01	mg/kg	1.1E-06	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	2.3E-06	1.3E-05	mg/kg-day	2.0E-05	mg/kg-day	6.7E-01
				Aroclor-1260	8E-02	mg/kg	7.0E-07	mg/kg-day	2.0E+00	(mg/kg-day) $^{-1}$	1.4E-06	8.2E-06	mg/kg-day	2.0E-05	mg/kg-day	4.1E-01
				Dieldrin	2E-03	mg/kg	2.1E-08	mg/kg-day	1.6E+01	(mg/kg-day) $^{-1}$	3.3E-07	2.4E-07	mg/kg-day	5.0E-05	mg/kg-day	4.8E-03
				Heptachlor epoxide	5E-04	mg/kg	4.8E-09	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	4.3E-08	5.6E-08	mg/kg-day	1.3E-05	mg/kg-day	4.3E-03
				Arsenic	2E-01	mg/kg	1.4E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.1E-06	1.6E-05	mg/kg-day	3.0E-04	mg/kg-day	5.5E-02
				Lead												
				Mercury	2E-01	mg/kg	1.8E-06	mg/kg-day	N/A	N/A	N/A	2.1E-05	mg/kg-day	1.0E-04	mg/kg-day	2.1E-01
				Selenium	8E-01	mg/kg	5.6E-06	mg/kg-day	N/A	N/A	N/A	6.5E-05	mg/kg-day	5.0E-03	mg/kg-day	1.3E-02
			Exp. Route Total								7E-06					1E+00
		Exposure Point Total									7E-06					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 3-7.6.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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				
							Intake/Exposure Concentration		CSF/Unit Risk		Cancer Risk	Intake/Exposure Concentration		RfD/RfC		Hazard Quotient
					Value	Units	Value	Units	Value	Units		Value	Units	Value	Units	
Surface Water	Fish Fillet Tissue	Fillet, Reach 3	Ingestion													
				4,4'-DDD	7E-03	mg/kg	7.7E-09	mg/kg-day	2.4E-01	(mg/kg-day) $^{-1}$	1.8E-09	2.7E-07	mg/kg-day	2.0E-03	mg/kg-day	1.3E-04
				4,4'-DDE	2E-02	mg/kg	1.8E-08	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	6.2E-09	6.4E-07	mg/kg-day	3.0E-04	mg/kg-day	2.1E-03
				4,4'-DDT	3E-03	mg/kg	3.2E-09	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	1.1E-09	1.1E-07	mg/kg-day	5.0E-04	mg/kg-day	2.3E-04
				Aldrin	3E-04	mg/kg	3.7E-10	mg/kg-day	1.7E+01	(mg/kg-day) $^{-1}$	6.3E-09	1.3E-08	mg/kg-day	3.0E-05	mg/kg-day	4.3E-04
				alpha-Chlordane	6E-03	mg/kg	6.6E-09	mg/kg-day	3.5E-01	(mg/kg-day) $^{-1}$	2.3E-09	2.3E-07	mg/kg-day	5.0E-04	mg/kg-day	4.7E-04
				Aroclor-1254	2E-02	mg/kg	2.5E-08	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	2.5E-08	8.8E-07	mg/kg-day	2.0E-05	mg/kg-day	4.4E-02
				Aroclor-1260	6E-02	mg/kg	7.2E-08	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	7.2E-08	2.5E-06	mg/kg-day	2.0E-05	mg/kg-day	1.3E-01
				delta-BHC	5E-04	mg/kg	6.2E-10	mg/kg-day	N/A	N/A	N/A	2.2E-08	mg/kg-day	3.0E-04	mg/kg-day	7.3E-05
				Dieldrin	2E-03	mg/kg	2.6E-09	mg/kg-day	1.6E+01	(mg/kg-day) $^{-1}$	4.1E-08	9.0E-08	mg/kg-day	5.0E-05	mg/kg-day	1.8E-03
				Heptachlor epoxide	8E-04	mg/kg	9.8E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	8.9E-09	3.4E-08	mg/kg-day	1.3E-05	mg/kg-day	2.6E-03
				Antimony	9E-02	mg/kg	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.8E-06	mg/kg-day	4.0E-04	mg/kg-day	9.6E-03
				Lead												
				Mercury	4E-01	mg/kg	4.2E-07	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	1.0E-04	mg/kg-day	1.5E-01
				Selenium	6E-01	mg/kg	6.6E-07	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	5.0E-03	mg/kg-day	4.6E-03
			Exp. Route Total								2E-07					3E-01
		Exposure Point Total									2E-07					3E-01
		Fillet, Reaches 4 and 5	Ingestion													
				4,4'-DDD	2E-02	mg/kg	1.8E-08	mg/kg-day	2.4E-01	(mg/kg-day) $^{-1}$	4.4E-09	6.4E-07	mg/kg-day	2.0E-03	mg/kg-day	3.2E-04
				4,4'-DDE	9E-02	mg/kg	9.9E-08	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	3.4E-08	3.5E-06	mg/kg-day	3.0E-04	mg/kg-day	1.2E-02
				4,4'-DDT	8E-03	mg/kg	9.3E-09	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	3.2E-09	3.3E-07	mg/kg-day	5.0E-04	mg/kg-day	6.5E-04
				Aldrin	5E-04	mg/kg	6.1E-10	mg/kg-day	1.7E+01	(mg/kg-day) $^{-1}$	1.0E-08	2.1E-08	mg/kg-day	3.0E-05	mg/kg-day	7.1E-04
				alpha-Chlordane	3E-03	mg/kg	2.9E-09	mg/kg-day	3.5E-01	(mg/kg-day) $^{-1}$	1.0E-09	1.0E-07	mg/kg-day	5.0E-04	mg/kg-day	2.0E-04
				Aroclor-1254	9E-02	mg/kg	9.9E-08	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	9.9E-08	3.5E-06	mg/kg-day	2.0E-05	mg/kg-day	1.7E-01
				Aroclor-1260	2E-01	mg/kg	2.2E-07	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	2.2E-07	7.6E-06	mg/kg-day	2.0E-05	mg/kg-day	3.8E-01
				Dieldrin	1E-03	mg/kg	1.7E-09	mg/kg-day	1.6E+01	(mg/kg-day) $^{-1}$	2.7E-08	5.9E-08	mg/kg-day	5.0E-05	mg/kg-day	1.2E-03
				Antimony	8E-02	mg/kg	8.8E-08	mg/kg-day	N/A	N/A	N/A	3.1E-06	mg/kg-day	4.0E-04	mg/kg-day	7.7E-03
				Lead												
				Mercury	3E-01	mg/kg	3.5E-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
				Selenium	7E-01	mg/kg	7.8E-07	mg/kg-day	N/A	N/A	N/A	2.7E-05	mg/kg-day	5.0E-03	mg/kg-day	5.5E-03
			Exp. Route Total								4E-07					7E-01
		Exposure Point Total									4E-07					7E-01

TABLE 3-7.6.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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 (cont.)	Fish Fillet Tissue (cont.)	Fillet, Reach 6	Ingestion													
				4,4'-DDD	2E-02	mg/kg	2.3E-08	mg/kg-day	2.4E-01	(mg/kg-day) $^{-1}$	5.5E-09	8.1E-07	mg/kg-day	2.0E-03	mg/kg-day	4.0E-04
				4,4'-DDE	6E-02	mg/kg	6.7E-08	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	2.3E-08	2.3E-06	mg/kg-day	3.0E-04	mg/kg-day	7.8E-03
				4,4'-DDT	5E-03	mg/kg	5.4E-09	mg/kg-day	3.4E-01	(mg/kg-day) $^{-1}$	1.8E-09	1.9E-07	mg/kg-day	5.0E-04	mg/kg-day	3.8E-04
				Aldrin	5E-04	mg/kg	6.1E-10	mg/kg-day	1.7E+01	(mg/kg-day) $^{-1}$	1.0E-08	2.1E-08	mg/kg-day	3.0E-05	mg/kg-day	7.1E-04
				alpha-Chlordane	8E-03	mg/kg	9.6E-09	mg/kg-day	3.5E-01	(mg/kg-day) $^{-1}$	3.4E-09	3.4E-07	mg/kg-day	5.0E-04	mg/kg-day	6.7E-04
				Aroclor-1248	8E-03	mg/kg	9.1E-09	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	9.1E-09	3.2E-07	mg/kg-day	2.0E-05	mg/kg-day	1.6E-02
				Aroclor-1254	1E-01	mg/kg	1.5E-07	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	1.5E-07	5.2E-06	mg/kg-day	2.0E-05	mg/kg-day	2.6E-01
				Aroclor-1260	8E-02	mg/kg	9.0E-08	mg/kg-day	1.0E+00	(mg/kg-day) $^{-1}$	9.0E-08	3.2E-06	mg/kg-day	2.0E-05	mg/kg-day	1.6E-01
				Dieldrin	2E-03	mg/kg	2.5E-09	mg/kg-day	1.6E+01	(mg/kg-day) $^{-1}$	3.9E-08	8.6E-08	mg/kg-day	5.0E-05	mg/kg-day	1.7E-03
				Heptachlor epoxide	5E-04	mg/kg	6.1E-10	mg/kg-day	9.1E+00	(mg/kg-day) $^{-1}$	5.6E-09	2.1E-08	mg/kg-day	1.3E-05	mg/kg-day	1.6E-03
				Arsenic	2E-01	mg/kg	1.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.7E-07	6.3E-06	mg/kg-day	3.0E-04	mg/kg-day	2.1E-02
				Lead												
				Mercury	1E-01	mg/kg	1.7E-07	mg/kg-day	N/A	N/A	N/A	5.9E-06	mg/kg-day	1.0E-04	mg/kg-day	5.9E-02
				Selenium	6E-01	mg/kg	7.2E-07	mg/kg-day	N/A	N/A	N/A	2.5E-05	mg/kg-day	5.0E-03	mg/kg-day	5.0E-03
			Exp. Route Total								6E-07					5E-01
		Exposure Point Total									6E-07					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 3-7.7.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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	Surface Water	AJRW (Reach 5)	Dermal	Chloroform	1E+00	ug/L	7.9E-08	mg/kg-day	N/A	N/A	N/A	2.3E-07	mg/kg-day	1.0E-02	mg/kg-day	2.3E-05
				Tetrachloroethene	2E+00	ug/L	1.0E-06	mg/kg-day	5.4E-01	(mg/kg-day) $^{-1}$	5.6E-07	3.0E-06	mg/kg-day	1.0E-02	mg/kg-day	3.0E-04
				Chromium VI	9E-01	ug/L	1.0E-08	mg/kg-day	N/A	N/A	N/A	3.0E-08	mg/kg-day	7.5E-05	mg/kg-day	3.9E-04
				Manganese	3E+02	ug/L	1.9E-06	mg/kg-day	N/A	N/A	N/A	5.6E-06	mg/kg-day	2.8E-03	mg/kg-day	2.0E-03
			Exp. Route Total								6E-07					3E-03
		Exposure Point Total									6E-07					3E-03
	Exposure Medium Total										N/A					N/A
Sediment	Sediment	AJRW	Ingestion	Arsenic	2E+01	mg/kg	9.9E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	7.7E-07	2.9E-06	mg/kg-day	5.9E-04	mg/kg-day	4.9E-03
				Lead												
				Manganese	2E+02	mg/kg	1.2E-05	mg/kg-day	N/A	N/A	N/A	3.5E-05	mg/kg-day	7.0E-02	mg/kg-day	5.1E-04
				Mercury	7E-01	mg/kg	3.7E-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
			Exp. Route Total								8E-07					6E-03
			Dermal	Arsenic	2E+01	mg/kg	2.4E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.6E-07	6.9E-07	mg/kg-day	3.0E-04	mg/kg-day	2.3E-03
			Exp. Route Total								4E-07					2E-03
		Exposure Point Total									1E-06					9E-03
	Exposure Medium Total										N/A					N/A
Soil	Surface Soil	AJRW	Ingestion	Arsenic	7E+01	mg/kg	3.5E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.3E-06	1.0E-05	mg/kg-day	3.0E-04	mg/kg-day	3.4E-02
				Chromium III	5E+01	mg/kg	2.8E-06	mg/kg-day	N/A	N/A	N/A	8.2E-06	mg/kg-day	1.5E+00	mg/kg-day	5.4E-06
				Lead												
				Manganese	4E+02	mg/kg	1.8E-05	mg/kg-day	N/A	N/A	N/A	5.4E-05	mg/kg-day	7.0E-02	mg/kg-day	7.7E-04
				Mercury	7E-01	mg/kg	3.4E-08	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	1.0E-04	mg/kg-day	1.0E-03
				Vanadium	5E+01	mg/kg	2.7E-06	mg/kg-day	N/A	N/A	N/A	8.0E-06	mg/kg-day	1.0E-03	mg/kg-day	8.0E-03
			Exp. Route Total								5E-06					4E-02
			Dermal	Arsenic	7E+01	mg/kg	8.4E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-06	2.5E-06	mg/kg-day	3.0E-04	mg/kg-day	8.2E-03
			Exp. Route Total								1E-06					8E-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 3-7.7.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

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	Surface Water	AJRW (Reach 5)	Dermal	Chloroform	1E+00	ug/L	5.4E-09	mg/kg-day	N/A	N/A	N/A	5.4E-08	mg/kg-day	1.0E-02	mg/kg-day	5.4E-06
				Tetrachloroethene	2E+00	ug/L	7.1E-08	mg/kg-day	5.4E-01	(mg/kg-day)$^{-1}$	3.8E-08	7.1E-07	mg/kg-day	1.0E-02	mg/kg-day	7.1E-05
				Chromium VI	9E-01	ug/L	4.9E-10	mg/kg-day	N/A	N/A	N/A	4.9E-09	mg/kg-day	7.5E-05	mg/kg-day	6.6E-05
				Manganese	3E+02	ug/L	9.3E-08	mg/kg-day	N/A	N/A	N/A	9.3E-07	mg/kg-day	2.8E-03	mg/kg-day	3.3E-04
			Exp. Route Total								4E-08					5E-04
		Exposure Point Total									4E-08					5E-04
	Exposure Medium Total										N/A					N/A
Sediment	Sediment	AJRW	Ingestion	Arsenic	2E+01	mg/kg	4.8E-08	mg/kg-day	7.7E-01	(mg/kg-day)$^{-1}$	3.7E-08	4.8E-07	mg/kg-day	5.9E-04	mg/kg-day	8.2E-04
				Lead												
				Manganese	2E+02	mg/kg	5.9E-07	mg/kg-day	N/A	N/A	N/A	5.9E-06	mg/kg-day	7.0E-02	mg/kg-day	8.4E-05
				Mercury	7E-01	mg/kg	1.8E-09	mg/kg-day	N/A	N/A	N/A	1.8E-08	mg/kg-day	1.0E-04	mg/kg-day	1.8E-04
			Exp. Route Total								4E-08					1E-03
			Dermal	Arsenic	2E+01	mg/kg	2.3E-08	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	3.5E-08	2.3E-07	mg/kg-day	3.0E-04	mg/kg-day	7.7E-04
			Exp. Route Total								3E-08					8E-04
		Exposure Point Total									7E-08					2E-03
	Exposure Medium Total										N/A					N/A
Soil	Surface Soil	AJRW	Ingestion	Arsenic	7E+01	mg/kg	1.7E-07	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	2.6E-07	1.7E-06	mg/kg-day	3.0E-04	mg/kg-day	5.7E-03
				Chromium III	5E+01	mg/kg	1.4E-07	mg/kg-day	N/A	N/A	N/A	1.4E-06	mg/kg-day	1.5E+00	mg/kg-day	9.1E-07
				Lead												
				Manganese	4E+02	mg/kg	9.0E-07	mg/kg-day	N/A	N/A	N/A	9.0E-06	mg/kg-day	7.0E-02	mg/kg-day	1.3E-04
				Mercury	7E-01	mg/kg	1.7E-09	mg/kg-day	N/A	N/A	N/A	1.7E-08	mg/kg-day	1.0E-04	mg/kg-day	1.7E-04
				Vanadium	5E+01	mg/kg	1.3E-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								3E-07					7E-03
			Dermal	Arsenic	7E+01	mg/kg	8.2E-08	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	1.2E-07	8.2E-07	mg/kg-day	3.0E-04	mg/kg-day	2.7E-03
			Exp. Route Total								1E-07					3E-03
		Exposure Point Total									4E-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 3-7.8.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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	Surface Water	AJRW (Reach 5)	Dermal	Chloroform	1E+00	ug/L	4.5E-08	mg/kg-day	N/A	N/A	N/A	5.2E-07	mg/kg-day	1.0E-02	mg/kg-day	5.2E-05
				Tetrachloroethene	2E+00	ug/L	5.9E-07	mg/kg-day	5.4E-01	(mg/kg-day) $^{-1}$	3.2E-07	6.9E-06	mg/kg-day	1.0E-02	mg/kg-day	6.9E-04
				Chromium VI	9E-01	ug/L	5.8E-09	mg/kg-day	N/A	N/A	N/A	6.8E-08	mg/kg-day	7.5E-05	mg/kg-day	9.0E-04
				Manganese	3E+02	ug/L	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	2.8E-03	mg/kg-day	4.6E-03
			Exp. Route Total								3E-07					6E-03
		Exposure Point Total									3E-07					6E-03
	Exposure Medium Total										N/A					N/A
Sediment	Sediment	AJRW	Ingestion	Arsenic	2E+01	mg/kg	2.3E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.8E-06	2.7E-05	mg/kg-day	5.9E-04	mg/kg-day	4.6E-02
				Lead												
				Manganese	2E+02	mg/kg	2.8E-05	mg/kg-day	N/A	N/A	N/A	3.3E-04	mg/kg-day	7.0E-02	mg/kg-day	4.7E-03
				Mercury	7E-01	mg/kg	8.5E-08	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	1.0E-04	mg/kg-day	1.0E-02
			Exp. Route Total								2E-06					6E-02
			Dermal	Arsenic	2E+01	mg/kg	3.9E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.8E-07	4.5E-06	mg/kg-day	3.0E-04	mg/kg-day	1.5E-02
			Exp. Route Total								6E-07					2E-02
		Exposure Point Total									2E-06					8E-02
	Exposure Medium Total										N/A					N/A
Soil	Surface Soil	AJRW	Ingestion	Arsenic	7E+01	mg/kg	8.2E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.2E-05	9.6E-05	mg/kg-day	3.0E-04	mg/kg-day	3.2E-01
				Chromium III	5E+01	mg/kg	6.5E-06	mg/kg-day	N/A	N/A	N/A	7.6E-05	mg/kg-day	1.5E+00	mg/kg-day	5.1E-05
				Lead												
				Manganese	4E+02	mg/kg	4.3E-05	mg/kg-day	N/A	N/A	N/A	5.0E-04	mg/kg-day	7.0E-02	mg/kg-day	7.2E-03
				Mercury	7E-01	mg/kg	8.0E-08	mg/kg-day	N/A	N/A	N/A	9.4E-07	mg/kg-day	1.0E-04	mg/kg-day	9.4E-03
				Vanadium	5E+01	mg/kg	6.4E-06	mg/kg-day	N/A	N/A	N/A	7.4E-05	mg/kg-day	1.0E-03	mg/kg-day	7.4E-02
			Exp. Route Total								1E-05					4E-01
			Dermal	Arsenic	7E+01	mg/kg	1.4E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.1E-06	1.6E-05	mg/kg-day	3.0E-04	mg/kg-day	5.4E-02
			Exp. Route Total								2E-06					5E-02
		Exposure Point Total									1E-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 3-7.8.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

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	Surface Water	AJRW (Reach 5)	Dermal	Chloroform	1E+00	ug/L	3.5E-09	mg/kg-day	N/A	N/A	N/A	1.2E-07	mg/kg-day	1.0E-02	mg/kg-day	1.2E-05
				Tetrachloroethene	2E+00	ug/L	4.6E-08	mg/kg-day	5.4E-01	(mg/kg-day) $^{-1}$	2.5E-08	1.6E-06	mg/kg-day	1.0E-02	mg/kg-day	1.6E-04
				Chromium VI	9E-01	ug/L	3.2E-10	mg/kg-day	N/A	N/A	N/A	1.1E-08	mg/kg-day	7.5E-05	mg/kg-day	1.5E-04
				Manganese	3E+02	ug/L	6.1E-08	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	2.8E-03	mg/kg-day	7.6E-04
			Exp. Route Total								2E-08					1E-03
		Exposure Point Total									2E-08					1E-03
	Exposure Medium Total										N/A					N/A
Sediment	Sediment	AJRW	Ingestion	Arsenic	2E+01	mg/kg	1.3E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	9.9E-08	4.5E-06	mg/kg-day	5.9E-04	mg/kg-day	7.6E-03
				Lead												
				Manganese	2E+02	mg/kg	1.6E-06	mg/kg-day	N/A	N/A	N/A	5.5E-05	mg/kg-day	7.0E-02	mg/kg-day	7.9E-04
				Mercury	7E-01	mg/kg	4.7E-09	mg/kg-day	N/A	N/A	N/A	1.7E-07	mg/kg-day	1.0E-04	mg/kg-day	1.7E-03
			Exp. Route Total								1E-07					1E-02
			Dermal	Arsenic	2E+01	mg/kg	4.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.5E-08	1.5E-06	mg/kg-day	3.0E-04	mg/kg-day	5.1E-03
			Exp. Route Total								6E-08					5E-03
		Exposure Point Total									2E-07					2E-02
	Exposure Medium Total										N/A					N/A
Soil	Surface Soil	AJRW	Ingestion	Arsenic	7E+01	mg/kg	4.6E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.8E-07	1.6E-05	mg/kg-day	3.0E-04	mg/kg-day	5.3E-02
				Chromium III	5E+01	mg/kg	3.6E-07	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	1.5E+00	mg/kg-day	8.5E-06
				Lead												
				Manganese	4E+02	mg/kg	2.4E-06	mg/kg-day	N/A	N/A	N/A	8.4E-05	mg/kg-day	7.0E-02	mg/kg-day	1.2E-03
				Mercury	7E-01	mg/kg	4.5E-09	mg/kg-day	N/A	N/A	N/A	1.6E-07	mg/kg-day	1.0E-04	mg/kg-day	1.6E-03
				Vanadium	5E+01	mg/kg	3.5E-07	mg/kg-day	N/A	N/A	N/A	1.2E-05	mg/kg-day	1.0E-03	mg/kg-day	1.2E-02
			Exp. Route Total								7E-07					7E-02
			Dermal	Arsenic	7E+01	mg/kg	1.5E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.3E-07	5.4E-06	mg/kg-day	3.0E-04	mg/kg-day	1.8E-02
			Exp. Route Total								2E-07					2E-02
		Exposure Point Total									9E-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 3-7.9.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

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	Baseflow Surface Water	SW-05 - 26 days	Dermal													
				Arsenic	2E+01	ug/L	4.7E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	7.1E-08	1.4E-07	mg/kg-day	3.0E-04	mg/kg-day	4.6E-04
				Chromium VI	1E+01	ug/L	3.8E-08	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	7.5E-05	mg/kg-day	1.5E-03
				Manganese	6E+02	ug/L	1.3E-06	mg/kg-day	N/A	N/A	N/A	3.8E-06	mg/kg-day	2.8E-03	mg/kg-day	1.3E-03
				Mercury	6E-02	ug/L	1.3E-10	mg/kg-day	N/A	N/A	N/A	3.8E-10	mg/kg-day	2.1E-05	mg/kg-day	1.8E-05
			Exp. Route Total								7E-08					3E-03
		Exposure Point Total									7E-08					3E-03
		SW-05 - 52 days	Dermal													
				Arsenic	2E+01	ug/L	9.5E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.4E-07	2.8E-07	mg/kg-day	3.0E-04	mg/kg-day	9.2E-04
				Chromium VI	1E+01	ug/L	7.6E-08	mg/kg-day	N/A	N/A	N/A	2.2E-07	mg/kg-day	7.5E-05	mg/kg-day	3.0E-03
				Manganese	6E+02	ug/L	2.6E-06	mg/kg-day	N/A	N/A	N/A	7.5E-06	mg/kg-day	2.8E-03	mg/kg-day	2.7E-03
				Mercury	6E-02	ug/L	2.6E-10	mg/kg-day	N/A	N/A	N/A	7.5E-10	mg/kg-day	2.1E-05	mg/kg-day	3.6E-05
			Exp. Route Total								1E-07					7E-03
		Exposure Point Total									1E-07					7E-03
		SW-05 - 78 days	Dermal													
				Arsenic	2E+01	ug/L	1.4E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.1E-07	4.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.4E-03
				Chromium VI	1E+01	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.3E-07	mg/kg-day	7.5E-05	mg/kg-day	4.4E-03
				Manganese	6E+02	ug/L	3.9E-06	mg/kg-day	N/A	N/A	N/A	1.1E-05	mg/kg-day	2.8E-03	mg/kg-day	4.0E-03
				Mercury	6E-02	ug/L	3.9E-10	mg/kg-day	N/A	N/A	N/A	1.1E-09	mg/kg-day	2.1E-05	mg/kg-day	5.4E-05
			Exp. Route Total								2E-07					1E-02
		Exposure Point Total									2E-07					1E-02
		SW-05 - 104 days	Dermal													
				Arsenic	2E+01	ug/L	1.9E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.8E-07	5.5E-07	mg/kg-day	3.0E-04	mg/kg-day	1.8E-03
				Chromium VI	1E+01	ug/L	1.5E-07	mg/kg-day	N/A	N/A	N/A	4.4E-07	mg/kg-day	7.5E-05	mg/kg-day	5.9E-03
				Manganese	6E+02	ug/L	5.2E-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
				Mercury	6E-02	ug/L	5.2E-10	mg/kg-day	N/A	N/A	N/A	1.5E-09	mg/kg-day	2.1E-05	mg/kg-day	7.2E-05
			Exp. Route Total								3E-07					1E-02
		Exposure Point Total									3E-07					1E-02
		SW-06 - 26 days	Dermal													
				Arsenic	1E+01	ug/L	2.9E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.3E-08	8.3E-08	mg/kg-day	3.0E-04	mg/kg-day	2.8E-04
				Chromium VI	6E+00	ug/L	2.5E-08	mg/kg-day	N/A	N/A	N/A	7.3E-08	mg/kg-day	7.5E-05	mg/kg-day	9.8E-04
				Manganese	6E+02	ug/L	1.2E-06	mg/kg-day	N/A	N/A	N/A	3.4E-06	mg/kg-day	2.8E-03	mg/kg-day	1.2E-03
			Exp. Route Total								4E-06					2E-03
		Exposure Point Total									4E-06					2E-03

TABLE 3-7.9.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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 (cont.)	Baseflow Surface Water (cont.)	SW-06 - 78 days	Dermal	Arsenic	1E+01	ug/L	8.6E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-07	2.5E-07	mg/kg-day	3.0E-04	mg/kg-day	8.3E-04
				Chromium VI	6E+00	ug/L	7.5E-08	mg/kg-day	N/A	N/A	N/A	2.2E-07	mg/kg-day	7.5E-05	mg/kg-day	2.9E-03
				Manganese	6E+02	ug/L	3.5E-06	mg/kg-day	N/A	N/A	N/A	1.0E-05	mg/kg-day	2.8E-03	mg/kg-day	3.6E-03
			Exp. Route Total								1E-07					7E-03
		Exposure Point Total									1E-07					7E-03
		SW-06 - 104 days	Dermal	Arsenic	1E+01	ug/L	1.1E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.7E-07	3.3E-07	mg/kg-day	3.0E-04	mg/kg-day	1.1E-03
				Chromium VI	6E+00	ug/L	1.0E-07	mg/kg-day	N/A	N/A	N/A	2.9E-07	mg/kg-day	7.5E-05	mg/kg-day	3.9E-03
				Manganese	6E+02	ug/L	4.6E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	2.8E-03	mg/kg-day	4.8E-03
			Exp. Route Total								2E-07					1E-02
		Exposure Point Total									2E-07					1E-02
		SW-07 - 26 days	Dermal	Arsenic	6E+00	ug/L	1.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.9E-08	3.7E-08	mg/kg-day	3.0E-04	mg/kg-day	1.2E-04
				Manganese	4E+02	ug/L	8.8E-07	mg/kg-day	N/A	N/A	N/A	2.6E-06	mg/kg-day	2.8E-03	mg/kg-day	9.1E-04
			Exp. Route Total								2E-08					1E-03
		Exposure Point Total									2E-08					1E-03
		SW-07 - 78 days	Dermal	Arsenic	6E+00	ug/L	3.8E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.7E-08	1.1E-07	mg/kg-day	3.0E-04	mg/kg-day	3.7E-04
				Manganese	4E+02	ug/L	2.6E-06	mg/kg-day	N/A	N/A	N/A	7.7E-06	mg/kg-day	2.8E-03	mg/kg-day	2.7E-03
			Exp. Route Total								6E-08					3E-03
		Exposure Point Total									6E-08					3E-03
		SW-08 - 78 days	Dermal	Arsenic	5E+00	ug/L	2.7E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.0E-08	7.8E-08	mg/kg-day	3.0E-04	mg/kg-day	2.6E-04
				Manganese	3E+02	ug/L	1.8E-06	mg/kg-day	N/A	N/A	N/A	5.2E-06	mg/kg-day	2.8E-03	mg/kg-day	1.8E-03
			Exp. Route Total								4E-08					2E-03
		Exposure Point Total									4E-08					2E-03
		SW-09 - 78 days	Dermal	Arsenic	3E+00	ug/L	1.6E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.4E-08	4.7E-08	mg/kg-day	3.0E-04	mg/kg-day	1.6E-04
				Manganese	6E+01	ug/L	3.4E-07	mg/kg-day	N/A	N/A	N/A	9.9E-07	mg/kg-day	2.8E-03	mg/kg-day	3.6E-04
			Exp. Route Total								2E-08					5E-04
		Exposure Point Total									2E-08					5E-04

TABLE 3-7.9.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

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 (cont.)	Baseflow Surface Water (cont.)	SW-10 - 39 days	Ingestion													
				Arsenic	2E+00	ug/L	4.7E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	7.0E-08	1.4E-07	mg/kg-day	3.0E-04	mg/kg-day	4.5E-04
				Mercury	2E-01	ug/L	5.7E-09	mg/kg-day	N/A	N/A	N/A	1.7E-08	mg/kg-day	3.0E-04	mg/kg-day	5.5E-05
			Exp. Route Total								7E-08					5E-04
			Dermal													
				Arsenic	2E+00	ug/L	1.7E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.5E-08	4.9E-08	mg/kg-day	3.0E-04	mg/kg-day	1.6E-04
				Mercury	2E-01	ug/L	2.1E-09	mg/kg-day	N/A	N/A	N/A	6.0E-09	mg/kg-day	2.1E-05	mg/kg-day	2.9E-04
			Exp. Route Total								3E-08					4E-04
		Exposure Point Total									1E-07					1E-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 3-7.9.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

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	Baseflow Surface Water	SW-05 - 26 days	Dermal	Arsenic	2E+01	ug/L	6.9E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.0E-08	6.9E-08	mg/kg-day	3.0E-04	mg/kg-day	2.3E-04
				Chromium VI	1E+01	ug/L	5.5E-09	mg/kg-day	N/A	N/A	N/A	5.5E-08	mg/kg-day	7.5E-05	mg/kg-day	7.4E-04
				Manganese	6E+02	ug/L	1.9E-07	mg/kg-day	N/A	N/A	N/A	1.9E-06	mg/kg-day	2.8E-03	mg/kg-day	6.7E-04
				Mercury	6E-02	ug/L	1.9E-11	mg/kg-day	N/A	N/A	N/A	1.9E-10	mg/kg-day	2.1E-05	mg/kg-day	8.9E-06
			Exp. Route Total								1E-08					2E-03
		Exposure Point Total									1E-08					2E-03
		SW-05 - 78 days	Dermal	Arsenic	2E+01	ug/L	2.1E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.1E-08	2.1E-07	mg/kg-day	3.0E-04	mg/kg-day	6.9E-04
				Chromium VI	1E+01	ug/L	1.7E-08	mg/kg-day	N/A	N/A	N/A	1.7E-07	mg/kg-day	7.5E-05	mg/kg-day	2.2E-03
				Manganese	6E+02	ug/L	5.6E-07	mg/kg-day	N/A	N/A	N/A	5.6E-06	mg/kg-day	2.8E-03	mg/kg-day	2.0E-03
				Mercury	6E-02	ug/L	5.6E-11	mg/kg-day	N/A	N/A	N/A	5.6E-10	mg/kg-day	2.1E-05	mg/kg-day	2.7E-05
			Exp. Route Total								3E-08					5E-03
		Exposure Point Total									3E-08					5E-03
		SW-06 - 26 days	Dermal	Arsenic	1E+01	ug/L	4.2E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.2E-09	4.2E-08	mg/kg-day	3.0E-04	mg/kg-day	1.4E-04
				Chromium VI	6E+00	ug/L	3.7E-09	mg/kg-day	N/A	N/A	N/A	3.7E-08	mg/kg-day	7.5E-05	mg/kg-day	4.9E-04
				Manganese	6E+02	ug/L	1.7E-07	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	2.8E-03	mg/kg-day	6.0E-04
			Exp. Route Total								6E-09					1E-03
		Exposure Point Total									6E-09					1E-03
		SW-06 - 78 days	Dermal	Arsenic	1E+01	ug/L	1.2E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.9E-08	1.2E-07	mg/kg-day	3.0E-04	mg/kg-day	4.2E-04
				Chromium VI	6E+00	ug/L	1.1E-08	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	7.5E-05	mg/kg-day	1.5E-03
				Manganese	6E+02	ug/L	5.0E-07	mg/kg-day	N/A	N/A	N/A	5.0E-06	mg/kg-day	2.8E-03	mg/kg-day	1.8E-03
			Exp. Route Total								2E-08					4E-03
		Exposure Point Total									2E-08					4E-03
		SW-07 - 26 days	Dermal	Arsenic	6E+00	ug/L	1.9E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.8E-09	1.9E-08	mg/kg-day	3.0E-04	mg/kg-day	6.2E-05
				Manganese	4E+02	ug/L	1.3E-07	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	2.8E-03	mg/kg-day	4.6E-04
			Exp. Route Total								3E-09					5E-04
		Exposure Point Total									3E-09					5E-04
		SW-08 - 26 days	Dermal	Arsenic	5E+00	ug/L	1.3E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.0E-09	1.3E-08	mg/kg-day	3.0E-04	mg/kg-day	4.4E-05
				Manganese	3E+02	ug/L	8.6E-08	mg/kg-day	N/A	N/A	N/A	8.6E-07	mg/kg-day	2.8E-03	mg/kg-day	3.1E-04
			Exp. Route Total								2E-09					4E-04
		Exposure Point Total									2E-09					4E-04

TABLE 3-7.9.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

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 (cont.)	Baseflow Surface Water (cont.)	SW-09 - 26 days	Dermal													
				Arsenic	3E+00	ug/L	7.8E-10	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.2E-09	7.8E-09	mg/kg-day	3.0E-04	mg/kg-day	2.6E-05
				Manganese	6E+01	ug/L	1.7E-08	mg/kg-day	N/A	N/A	N/A	1.7E-07	mg/kg-day	2.8E-03	mg/kg-day	5.9E-05
			Exp. Route Total								1E-09					9E-05
		Exposure Point Total									1E-09					9E-05
		SW-10 - 5 days	Ingestion													
				Arsenic	2E+00	ug/L	8.7E-10	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-09	8.7E-09	mg/kg-day	3.0E-04	mg/kg-day	2.9E-05
				Mercury	2E-01	ug/L	1.1E-10	mg/kg-day	N/A	N/A	N/A	1.1E-09	mg/kg-day	3.0E-04	mg/kg-day	3.8E-06
			Exp. Route Total								1E-09					3E-05
			Dermal													
				Arsenic	2E+00	ug/L	3.1E-10	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.7E-10	3.1E-09	mg/kg-day	3.0E-04	mg/kg-day	1.0E-05
				Mercury	2E-01	ug/L	3.8E-11	mg/kg-day	N/A	N/A	N/A	3.8E-10	mg/kg-day	2.1E-05	mg/kg-day	1.8E-05
			Exp. Route Total								5E-10					3E-05
		Exposure Point Total									2E-09					6E-05
	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 3-7.10.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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	Baseflow Surface Water	SW-05 - 26 days	Dermal	Arsenic	2E+01	ug/L	2.7E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.1E-08	3.2E-07	mg/kg-day	3.0E-04	mg/kg-day	1.1E-03
				Chromium VI	1E+01	ug/L	2.2E-08	mg/kg-day	N/A	N/A	N/A	2.5E-07	mg/kg-day	7.5E-05	mg/kg-day	3.4E-03
				Manganese	6E+02	ug/L	7.4E-07	mg/kg-day	N/A	N/A	N/A	8.6E-06	mg/kg-day	2.8E-03	mg/kg-day	3.1E-03
				Mercury	6E-02	ug/L	7.4E-11	mg/kg-day	N/A	N/A	N/A	8.6E-10	mg/kg-day	2.1E-05	mg/kg-day	4.1E-05
			Exp. Route Total								4E-08					8E-03
		Exposure Point Total									4E-08					8E-03
		SW-05 - 52 days	Dermal	Arsenic	2E+01	ug/L	5.4E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	8.1E-08	6.3E-07	mg/kg-day	3.0E-04	mg/kg-day	2.1E-03
				Chromium VI	1E+01	ug/L	4.4E-08	mg/kg-day	N/A	N/A	N/A	5.1E-07	mg/kg-day	7.5E-05	mg/kg-day	6.8E-03
				Manganese	6E+02	ug/L	1.5E-06	mg/kg-day	N/A	N/A	N/A	1.7E-05	mg/kg-day	2.8E-03	mg/kg-day	6.2E-03
				Mercury	6E-02	ug/L	1.5E-10	mg/kg-day	N/A	N/A	N/A	1.7E-09	mg/kg-day	2.1E-05	mg/kg-day	8.2E-05
			Exp. Route Total								8E-08					2E-02
		Exposure Point Total									8E-08					2E-02
		SW-05 - 78 days	Dermal	Arsenic	2E+01	ug/L	8.1E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.2E-07	9.5E-07	mg/kg-day	3.0E-04	mg/kg-day	3.2E-03
				Chromium VI	1E+01	ug/L	6.5E-08	mg/kg-day	N/A	N/A	N/A	7.6E-07	mg/kg-day	7.5E-05	mg/kg-day	1.0E-02
				Manganese	6E+02	ug/L	2.2E-06	mg/kg-day	N/A	N/A	N/A	2.6E-05	mg/kg-day	2.8E-03	mg/kg-day	9.3E-03
				Mercury	6E-02	ug/L	2.2E-10	mg/kg-day	N/A	N/A	N/A	2.6E-09	mg/kg-day	2.1E-05	mg/kg-day	1.2E-04
			Exp. Route Total								1E-07					2E-02
		Exposure Point Total									1E-07					2E-02
		SW-05 - 104 days	Dermal	Arsenic	2E+01	ug/L	1.1E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.6E-07	1.3E-06	mg/kg-day	3.0E-04	mg/kg-day	4.2E-03
				Chromium VI	1E+01	ug/L	8.7E-08	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	7.5E-05	mg/kg-day	1.4E-02
				Manganese	6E+02	ug/L	3.0E-06	mg/kg-day	N/A	N/A	N/A	3.5E-05	mg/kg-day	2.8E-03	mg/kg-day	1.2E-02
				Mercury	6E-02	ug/L	3.0E-10	mg/kg-day	N/A	N/A	N/A	3.4E-09	mg/kg-day	2.1E-05	mg/kg-day	1.6E-04
			Exp. Route Total								2E-07					3E-02
		Exposure Point Total									2E-07					3E-02
		SW-06 - 26 days	Dermal	Arsenic	1E+01	ug/L	1.6E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.5E-08	1.9E-07	mg/kg-day	3.0E-04	mg/kg-day	6.4E-04
				Chromium VI	6E+00	ug/L	1.4E-08	mg/kg-day	N/A	N/A	N/A	1.7E-07	mg/kg-day	7.5E-05	mg/kg-day	2.2E-03
				Manganese	6E+02	ug/L	6.6E-07	mg/kg-day	N/A	N/A	N/A	7.7E-06	mg/kg-day	2.8E-03	mg/kg-day	2.7E-03
			Exp. Route Total								2E-08					6E-03
		Exposure Point Total									2E-08					6E-03

TABLE 3-7.10.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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 (cont.)	Baseflow Surface Water (cont.)	SW-06 - 78 days	Dermal	Arsenic	1E+01	ug/L	4.9E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	7.4E-08	5.7E-07	mg/kg-day	3.0E-04	mg/kg-day	1.9E-03
				Chromium VI	6E+00	ug/L	4.3E-08	mg/kg-day	N/A	N/A	N/A	5.0E-07	mg/kg-day	7.5E-05	mg/kg-day	6.7E-03
				Manganese	6E+02	ug/L	2.0E-06	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	2.8E-03	mg/kg-day	8.2E-03
			Exp. Route Total								7E-08					2E-02
		Exposure Point Total									7E-08					2E-02
		SW-06 - 104 days	Dermal	Arsenic	1E+01	ug/L	6.5E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	9.8E-08	7.6E-07	mg/kg-day	3.0E-04	mg/kg-day	2.5E-03
				Chromium VI	6E+00	ug/L	5.8E-08	mg/kg-day	N/A	N/A	N/A	6.7E-07	mg/kg-day	7.5E-05	mg/kg-day	9.0E-03
				Manganese	6E+02	ug/L	2.6E-06	mg/kg-day	N/A	N/A	N/A	3.1E-05	mg/kg-day	2.8E-03	mg/kg-day	1.1E-02
			Exp. Route Total								1E-07					2E-02
		Exposure Point Total									1E-07					2E-02
		SW-07 - 26 days	Dermal	Arsenic	6E+00	ug/L	7.3E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.1E-08	8.5E-08	mg/kg-day	3.0E-04	mg/kg-day	2.8E-04
				Manganese	4E+02	ug/L	5.0E-07	mg/kg-day	N/A	N/A	N/A	5.9E-06	mg/kg-day	2.8E-03	mg/kg-day	2.1E-03
			Exp. Route Total								1E-06					2E-03
		Exposure Point Total									1E-06					2E-03
		SW-07 - 78 days	Dermal	Arsenic	6E+00	ug/L	2.2E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.3E-08	2.6E-07	mg/kg-day	3.0E-04	mg/kg-day	8.5E-04
				Manganese	4E+02	ug/L	1.5E-06	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	2.8E-03	mg/kg-day	6.3E-03
			Exp. Route Total								3E-08					7E-03
		Exposure Point Total									3E-08					7E-03
		SW-08 - 78 days	Dermal	Arsenic	5E+00	ug/L	1.5E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.3E-08	1.8E-07	mg/kg-day	3.0E-04	mg/kg-day	6.0E-04
				Manganese	3E+02	ug/L	1.0E-06	mg/kg-day	N/A	N/A	N/A	1.2E-05	mg/kg-day	2.8E-03	mg/kg-day	4.2E-03
			Exp. Route Total								2E-08					5E-03
		Exposure Point Total									2E-08					5E-03
		SW-09 - 78 days	Dermal	Arsenic	3E+00	ug/L	9.2E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.4E-08	1.1E-07	mg/kg-day	3.0E-04	mg/kg-day	3.6E-04
				Manganese	6E+01	ug/L	2.0E-07	mg/kg-day	N/A	N/A	N/A	2.3E-06	mg/kg-day	2.8E-03	mg/kg-day	8.1E-04
			Exp. Route Total								1E-08					1E-03
		Exposure Point Total									1E-08					1E-03

TABLE 3-7.10.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

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 (cont.)	Baseflow Surface Water (cont.)	SW-10 - 39 days	Ingestion													
				Arsenic	2E+00	ug/L	5.5E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	8.2E-08	6.4E-07	mg/kg-day	3.0E-04	mg/kg-day	2.1E-03
				Mercury	2E-01	ug/L	6.7E-09	mg/kg-day	N/A	N/A	N/A	7.8E-08	mg/kg-day	3.0E-04	mg/kg-day	2.6E-04
			Exp. Route Total								8E-08					2E-03
			Dermal													
				Arsenic	2E+00	ug/L	7.2E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.1E-08	8.4E-08	mg/kg-day	3.0E-04	mg/kg-day	2.8E-04
				Mercury	2E-01	ug/L	8.8E-10	mg/kg-day	N/A	N/A	N/A	1.0E-08	mg/kg-day	2.1E-05	mg/kg-day	4.9E-04
			Exp. Route Total								1E-08					8E-04
		Exposure Point Total									9E-08					3E-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 3-7.10.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

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	Baseflow Surface Water	SW-05 - 26 days	Dermal													
				Arsenic	2E+01	ug/L	4.5E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.8E-09	1.6E-07	mg/kg-day	3.0E-04	mg/kg-day	5.3E-04
				Chromium VI	1E+01	ug/L	3.6E-09	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	7.5E-05	mg/kg-day	1.7E-03
				Manganese	6E+02	ug/L	1.2E-07	mg/kg-day	N/A	N/A	N/A	4.3E-06	mg/kg-day	2.8E-03	mg/kg-day	1.5E-03
				Mercury	6E-02	ug/L	1.2E-11	mg/kg-day	N/A	N/A	N/A	4.3E-10	mg/kg-day	2.1E-05	mg/kg-day	2.1E-05
			Exp. Route Total								7E-09					4E-03
		Exposure Point Total									7E-09					4E-03
		SW-05 - 78 days	Dermal													
				Arsenic	2E+01	ug/L	1.4E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.0E-08	4.7E-07	mg/kg-day	3.0E-04	mg/kg-day	1.6E-03
				Chromium VI	1E+01	ug/L	1.1E-08	mg/kg-day	N/A	N/A	N/A	3.8E-07	mg/kg-day	7.5E-05	mg/kg-day	5.1E-03
				Manganese	6E+02	ug/L	3.7E-07	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	2.8E-03	mg/kg-day	4.6E-03
				Mercury	6E-02	ug/L	3.7E-11	mg/kg-day	N/A	N/A	N/A	1.3E-09	mg/kg-day	2.1E-05	mg/kg-day	6.2E-05
			Exp. Route Total								2E-08					1E-02
		Exposure Point Total									2E-08					1E-02
		SW-06 - 26 days	Dermal													
				Arsenic	1E+01	ug/L	2.7E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.1E-09	9.5E-08	mg/kg-day	3.0E-04	mg/kg-day	3.2E-04
				Chromium VI	6E+00	ug/L	2.4E-09	mg/kg-day	N/A	N/A	N/A	8.4E-08	mg/kg-day	7.5E-05	mg/kg-day	1.1E-03
				Manganese	6E+02	ug/L	1.1E-07	mg/kg-day	N/A	N/A	N/A	3.8E-06	mg/kg-day	2.8E-03	mg/kg-day	1.4E-03
			Exp. Route Total								4E-09					3E-03
		Exposure Point Total									4E-09					3E-03
		SW-06 - 78 days	Dermal													
				Arsenic	1E+01	ug/L	8.2E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.2E-08	2.9E-07	mg/kg-day	3.0E-04	mg/kg-day	9.5E-04
				Chromium VI	6E+00	ug/L	7.2E-09	mg/kg-day	N/A	N/A	N/A	2.5E-07	mg/kg-day	7.5E-05	mg/kg-day	3.4E-03
				Manganese	6E+02	ug/L	3.3E-07	mg/kg-day	N/A	N/A	N/A	1.2E-05	mg/kg-day	2.8E-03	mg/kg-day	4.1E-03
			Exp. Route Total								1E-08					8E-03
		Exposure Point Total									1E-08					8E-03
		SW-07 - 26 days	Dermal													
				Arsenic	6E+00	ug/L	1.2E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.8E-09	4.3E-08	mg/kg-day	3.0E-04	mg/kg-day	1.4E-04
				Manganese	4E+02	ug/L	8.4E-08	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-09					1E-03
		Exposure Point Total									2E-09					1E-03
		SW-08 - 26 days	Dermal													
				Arsenic	5E+00	ug/L	8.6E-10	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-09	3.0E-08	mg/kg-day	3.0E-04	mg/kg-day	1.0E-04
				Manganese	3E+02	ug/L	5.6E-08	mg/kg-day	N/A	N/A	N/A	2.0E-06	mg/kg-day	2.8E-03	mg/kg-day	7.0E-04
			Exp. Route Total								1E-09					8E-04
		Exposure Point Total									1E-09					8E-04

TABLE 3-7.10.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

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 (cont.)	Baseflow Surface Water (cont.)	SW-09 - 26 days	Dermal													
				Arsenic	3E+00	ug/L	5.1E-10	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	7.7E-10	1.8E-08	mg/kg-day	3.0E-04	mg/kg-day	6.0E-05
				Manganese	6E+01	ug/L	1.1E-08	mg/kg-day	N/A	N/A	N/A	3.8E-07	mg/kg-day	2.8E-03	mg/kg-day	1.4E-04
			Exp. Route Total								8E-10					2E-04
		Exposure Point Total									8E-10					2E-04
		SW-10 - 5 days	Ingestion													
				Arsenic	2E+00	ug/L	1.2E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.7E-09	4.1E-08	mg/kg-day	3.0E-04	mg/kg-day	1.4E-04
				Mercury	2E-01	ug/L	1.4E-10	mg/kg-day	N/A	N/A	N/A	5.0E-09	mg/kg-day	3.0E-04	mg/kg-day	1.7E-05
			Exp. Route Total								2E-09					2E-04
			Dermal													
				Arsenic	2E+00	ug/L	1.5E-10	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.3E-10	5.4E-09	mg/kg-day	3.0E-04	mg/kg-day	1.8E-05
				Mercury	2E-01	ug/L	1.9E-11	mg/kg-day	N/A	N/A	N/A	6.6E-10	mg/kg-day	2.1E-05	mg/kg-day	3.1E-05
			Exp. Route Total								2E-10					5E-05
		Exposure Point Total									2E-09					2E-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

TABLE 3-7.11.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Receptor Population: Area Resident
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	Storm Event Surface Water	SW-05	Dermal													
				Antimony	3E+00	ug/L	8.6E-09	mg/kg-day	N/A	N/A	N/A	2.5E-08	mg/kg-day	6.0E-05	mg/kg-day	4.2E-04
				Arsenic	2E+01	ug/L	6.1E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	9.2E-08	1.8E-07	mg/kg-day	3.0E-04	mg/kg-day	5.9E-04
				Chromium VI	1E+01	ug/L	6.6E-08	mg/kg-day	N/A	N/A	N/A	1.9E-07	mg/kg-day	7.5E-05	mg/kg-day	2.6E-03
				Manganese	4E+02	ug/L	1.3E-06	mg/kg-day	N/A	N/A	N/A	3.8E-06	mg/kg-day	2.8E-03	mg/kg-day	1.3E-03
				Mercury	9E-02	ug/L	2.9E-10	mg/kg-day	N/A	N/A	N/A	8.5E-10	mg/kg-day	2.1E-05	mg/kg-day	4.0E-05
			Exp. Route Total								9E-08					5E-03
		Exposure Point Total									9E-08					5E-03
		SW-06	Dermal													
				Antimony	3E+00	ug/L	9.0E-09	mg/kg-day	N/A	N/A	N/A	2.6E-08	mg/kg-day	6.0E-05	mg/kg-day	4.4E-04
				Arsenic	2E+01	ug/L	7.7E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.2E-07	2.2E-07	mg/kg-day	3.0E-04	mg/kg-day	7.5E-04
				Chromium VI	2E+01	ug/L	1.3E-07	mg/kg-day	N/A	N/A	N/A	3.8E-07	mg/kg-day	7.5E-05	mg/kg-day	5.1E-03
				Lead												
				Manganese	4E+02	ug/L	1.3E-06	mg/kg-day	N/A	N/A	N/A	3.8E-06	mg/kg-day	2.8E-03	mg/kg-day	1.4E-03
				Mercury	2E-01	ug/L	5.1E-10	mg/kg-day	N/A	N/A	N/A	1.5E-09	mg/kg-day	2.1E-05	mg/kg-day	7.1E-05
			Exp. Route Total								1E-07					8E-03
		Exposure Point Total									1E-07					8E-03
		SW-07	Dermal													
				Arsenic	1E+01	ug/L	4.5E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.7E-08	1.3E-07	mg/kg-day	3.0E-04	mg/kg-day	4.3E-04
				Chromium VI	1E+01	ug/L	6.1E-08	mg/kg-day	N/A	N/A	N/A	1.8E-07	mg/kg-day	7.5E-05	mg/kg-day	2.4E-03
				Lead												
				Manganese	2E+02	ug/L	7.7E-07	mg/kg-day	N/A	N/A	N/A	2.3E-06	mg/kg-day	2.8E-03	mg/kg-day	8.1E-04
				Mercury	8E-02	ug/L	2.6E-10	mg/kg-day	N/A	N/A	N/A	7.5E-10	mg/kg-day	2.1E-05	mg/kg-day	3.6E-05
			Exp. Route Total								7E-08					4E-03
		Exposure Point Total									7E-08					4E-03
		SW-08	Dermal													
				Antimony	1E+00	ug/L	4.7E-09	mg/kg-day	N/A	N/A	N/A	1.4E-08	mg/kg-day	6.0E-05	mg/kg-day	2.3E-04
				Arsenic	3E+01	ug/L	8.5E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-07	2.5E-07	mg/kg-day	3.0E-04	mg/kg-day	8.3E-04
				Chromium VI	5E+01	ug/L	3.1E-07	mg/kg-day	N/A	N/A	N/A	9.0E-07	mg/kg-day	7.5E-05	mg/kg-day	1.2E-02
				Lead												
				Manganese	6E+02	ug/L	2.0E-06	mg/kg-day	N/A	N/A	N/A	5.8E-06	mg/kg-day	2.8E-03	mg/kg-day	2.1E-03
				Mercury	2E-01	ug/L	5.6E-10	mg/kg-day	N/A	N/A	N/A	1.6E-09	mg/kg-day	2.1E-05	mg/kg-day	7.7E-05
				Thallium	2E+00	ug/L	5.9E-09	mg/kg-day	N/A	N/A	N/A	1.7E-08	mg/kg-day	8.0E-05	mg/kg-day	2.1E-04
			Exp. Route Total								1E-07					2E-02
		Exposure Point Total									1E-07					2E-02

TABLE 3-7.11.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Receptor Population: Area Resident
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 (cont.)	Storm Event Surface Water (cont.)	SW-09	Dermal	Antimony	2E+00	ug/L	5.7E-09	mg/kg-day	N/A	N/A	N/A	1.7E-08	mg/kg-day	6.0E-05	mg/kg-day	2.8E-04
				Arsenic	4E+00	ug/L	1.2E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.8E-08	3.6E-08	mg/kg-day	3.0E-04	mg/kg-day	1.2E-04
			Exp. Route Total								2E-08					4E-04
		Exposure Point Total									2E-08					4E-04
		SW-10	Dermal	Arsenic	2E+00	ug/L	6.4E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	9.5E-09	1.9E-08	mg/kg-day	3.0E-04	mg/kg-day	6.2E-05
				Mercury	8E-02	ug/L	2.4E-10	mg/kg-day	N/A	N/A	N/A	7.0E-10	mg/kg-day	2.1E-05	mg/kg-day	3.4E-05
			Exp. Route Total								1E-08					1E-04
		Exposure Point Total									1E-08					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 3-7.11.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Receptor Population: Area Resident
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	Storm Event Surface Water	SW-05	Dermal													
				Antimony	3E+00	ug/L	6.3E-10	mg/kg-day	N/A	N/A	N/A	6.3E-09	mg/kg-day	6.0E-05	mg/kg-day	1.0E-04
				Arsenic	2E+01	ug/L	4.5E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.7E-09	4.5E-08	mg/kg-day	3.0E-04	mg/kg-day	1.5E-04
				Chromium VI	1E+01	ug/L	4.8E-09	mg/kg-day	N/A	N/A	N/A	4.8E-08	mg/kg-day	7.5E-05	mg/kg-day	6.4E-04
				Manganese	4E+02	ug/L	9.4E-08	mg/kg-day	N/A	N/A	N/A	9.4E-07	mg/kg-day	2.8E-03	mg/kg-day	3.3E-04
				Mercury	9E-02	ug/L	2.1E-11	mg/kg-day	N/A	N/A	N/A	2.1E-10	mg/kg-day	2.1E-05	mg/kg-day	1.0E-05
			Exp. Route Total								7E-09					1E-03
		Exposure Point Total									7E-09					1E-03
		SW-06	Dermal													
				Antimony	3E+00	ug/L	6.6E-10	mg/kg-day	N/A	N/A	N/A	6.6E-09	mg/kg-day	6.0E-05	mg/kg-day	1.1E-04
				Arsenic	2E+01	ug/L	5.6E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	8.4E-09	5.6E-08	mg/kg-day	3.0E-04	mg/kg-day	1.9E-04
				Chromium VI	2E+01	ug/L	9.5E-09	mg/kg-day	N/A	N/A	N/A	9.5E-08	mg/kg-day	7.5E-05	mg/kg-day	1.3E-03
				Lead												
				Manganese	4E+02	ug/L	9.6E-08	mg/kg-day	N/A	N/A	N/A	9.6E-07	mg/kg-day	2.8E-03	mg/kg-day	3.4E-04
				Mercury	8E-02	ug/L	1.9E-11	mg/kg-day	N/A	N/A	N/A	1.9E-10	mg/kg-day	2.1E-05	mg/kg-day	8.9E-06
			Exp. Route Total								8E-09					2E-03
		Exposure Point Total									8E-09					2E-03
		SW-07	Dermal													
				Arsenic	1E+01	ug/L	3.2E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.9E-09	3.2E-08	mg/kg-day	3.0E-04	mg/kg-day	1.1E-04
				Chromium VI	1E+01	ug/L	4.5E-09	mg/kg-day	N/A	N/A	N/A	4.5E-08	mg/kg-day	7.5E-05	mg/kg-day	5.9E-04
				Lead												
				Manganese	2E+02	ug/L	5.6E-08	mg/kg-day	N/A	N/A	N/A	5.6E-07	mg/kg-day	2.8E-03	mg/kg-day	2.0E-04
				Mercury	8E-02	ug/L	1.9E-11	mg/kg-day	N/A	N/A	N/A	1.9E-10	mg/kg-day	2.1E-05	mg/kg-day	8.9E-06
			Exp. Route Total								5E-09					9E-04
		Exposure Point Total									5E-09					9E-04
		SW-08	Dermal													
				Antimony	1E+00	ug/L	3.4E-10	mg/kg-day	N/A	N/A	N/A	3.4E-09	mg/kg-day	6.0E-05	mg/kg-day	5.7E-05
				Arsenic	3E+01	ug/L	6.2E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	9.3E-09	6.2E-08	mg/kg-day	3.0E-04	mg/kg-day	2.1E-04
				Chromium VI	5E+01	ug/L	2.2E-08	mg/kg-day	N/A	N/A	N/A	2.2E-07	mg/kg-day	7.5E-05	mg/kg-day	3.0E-03
				Lead												
				Manganese	6E+02	ug/L	1.5E-07	mg/kg-day	N/A	N/A	N/A	1.5E-06	mg/kg-day	2.8E-03	mg/kg-day	5.2E-04
				Mercury	2E-01	ug/L	4.1E-11	mg/kg-day	N/A	N/A	N/A	4.1E-10	mg/kg-day	2.1E-05	mg/kg-day	1.9E-05
				Thallium	2E+00	ug/L	4.3E-10	mg/kg-day	N/A	N/A	N/A	4.3E-09	mg/kg-day	8.0E-05	mg/kg-day	5.4E-05
			Exp. Route Total								9E-09					4E-03
		Exposure Point Total									9E-09					4E-03

TABLE 3-7.11.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Receptor Population: Area Resident
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 (cont.)	Storm Event Surface Water (cont.)	SW-09	Dermal	Antimony	2E+00	ug/L	4.2E-10	mg/kg-day	N/A	N/A	N/A	4.2E-09	mg/kg-day	6.0E-05	mg/kg-day	6.9E-05
				Arsenic	4E+00	ug/L	9.0E-10	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.3E-09	9.0E-09	mg/kg-day	3.0E-04	mg/kg-day	3.0E-05
			Exp. Route Total								1E-09					1E-04
		Exposure Point Total									1E-09					1E-04
		SW-10	Dermal	Arsenic	2E+00	ug/L	4.6E-10	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.9E-10	4.6E-09	mg/kg-day	3.0E-04	mg/kg-day	1.5E-05
				Mercury	8E-02	ug/L	1.8E-11	mg/kg-day	N/A	N/A	N/A	1.8E-10	mg/kg-day	2.1E-05	mg/kg-day	8.4E-06
			Exp. Route Total								7E-10					2E-05
		Exposure Point Total									7E-10					2E-05
	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 3-7.12.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Receptor Population: Area Resident
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	Storm Event Surface Water	SW-05	Dermal													
				Antimony	3E+00	ug/L	4.9E-09	mg/kg-day	N/A	N/A	N/A	5.8E-08	mg/kg-day	6.0E-05	mg/kg-day	9.6E-04
				Arsenic	2E+01	ug/L	3.5E-08	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	5.3E-08	4.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.4E-03
				Chromium VI	1E+01	ug/L	3.8E-08	mg/kg-day	N/A	N/A	N/A	4.4E-07	mg/kg-day	7.5E-05	mg/kg-day	5.9E-03
				Manganese	4E+02	ug/L	7.4E-07	mg/kg-day	N/A	N/A	N/A	8.6E-06	mg/kg-day	2.8E-03	mg/kg-day	3.1E-03
				Mercury	9E-02	ug/L	1.7E-10	mg/kg-day	N/A	N/A	N/A	1.9E-09	mg/kg-day	2.1E-05	mg/kg-day	9.2E-05
			Exp. Route Total								5E-08					1E-02
		Exposure Point Total									5E-08					1E-02
		SW-06	Dermal													
				Antimony	3E+00	ug/L	5.2E-09	mg/kg-day	N/A	N/A	N/A	6.0E-08	mg/kg-day	6.0E-05	mg/kg-day	1.0E-03
				Arsenic	2E+01	ug/L	4.4E-08	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	6.6E-08	5.1E-07	mg/kg-day	3.0E-04	mg/kg-day	1.7E-03
				Chromium VI	2E+01	ug/L	7.5E-08	mg/kg-day	N/A	N/A	N/A	8.7E-07	mg/kg-day	7.5E-05	mg/kg-day	1.2E-02
				Lead												
				Manganese	4E+02	ug/L	7.6E-07	mg/kg-day	N/A	N/A	N/A	8.8E-06	mg/kg-day	2.8E-03	mg/kg-day	3.2E-03
				Mercury	2E-01	ug/L	2.9E-10	mg/kg-day	N/A	N/A	N/A	3.4E-09	mg/kg-day	2.1E-05	mg/kg-day	1.6E-04
			Exp. Route Total								7E-08					2E-02
		Exposure Point Total									7E-08					2E-02
		SW-07	Dermal													
				Arsenic	1E+01	ug/L	2.6E-08	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	3.8E-08	3.0E-07	mg/kg-day	3.0E-04	mg/kg-day	9.9E-04
				Chromium VI	1E+01	ug/L	3.5E-08	mg/kg-day	N/A	N/A	N/A	4.1E-07	mg/kg-day	7.5E-05	mg/kg-day	5.4E-03
				Lead												
				Manganese	2E+02	ug/L	4.4E-07	mg/kg-day	N/A	N/A	N/A	5.2E-06	mg/kg-day	2.8E-03	mg/kg-day	1.8E-03
				Mercury	8E-02	ug/L	1.5E-10	mg/kg-day	N/A	N/A	N/A	1.7E-09	mg/kg-day	2.1E-05	mg/kg-day	8.2E-05
			Exp. Route Total								4E-08					8E-03
		Exposure Point Total									4E-08					8E-03
		SW-08	Dermal													
				Antimony	1E+00	ug/L	2.7E-09	mg/kg-day	N/A	N/A	N/A	3.1E-08	mg/kg-day	6.0E-05	mg/kg-day	5.2E-04
				Arsenic	3E+01	ug/L	4.9E-08	mg/kg-day	1.5E+00	(mg/kg-day)$^{-1}$	7.3E-08	5.7E-07	mg/kg-day	3.0E-04	mg/kg-day	1.9E-03
				Chromium VI	5E+01	ug/L	1.8E-07	mg/kg-day	N/A	N/A	N/A	2.1E-06	mg/kg-day	7.5E-05	mg/kg-day	2.7E-02
				Lead												
				Manganese	6E+02	ug/L	1.1E-06	mg/kg-day	N/A	N/A	N/A	1.3E-05	mg/kg-day	2.8E-03	mg/kg-day	4.8E-03
				Mercury	2E-01	ug/L	3.2E-10	mg/kg-day	N/A	N/A	N/A	3.7E-09	mg/kg-day	2.1E-05	mg/kg-day	1.8E-04
				Thallium	2E+00	ug/L	3.4E-09	mg/kg-day	N/A	N/A	N/A	3.9E-08	mg/kg-day	8.0E-05	mg/kg-day	4.9E-04
			Exp. Route Total								7E-08					4E-02
		Exposure Point Total									7E-08					4E-02

TABLE 3-7.12.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Receptor Population: Area Resident
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 (cont.)	Storm Event Surface Water (cont.)	SW-09	Dermal	Antimony	2E+00	ug/L	3.3E-09	mg/kg-day	N/A	N/A	N/A	3.8E-08	mg/kg-day	6.0E-05	mg/kg-day	6.3E-04
				Arsenic	4E+00	ug/L	7.1E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.1E-08	8.2E-08	mg/kg-day	3.0E-04	mg/kg-day	2.7E-04
			Exp. Route Total								1E-08					9E-04
		Exposure Point Total									1E-08					9E-04
		SW-10	Dermal	Arsenic	2E+00	ug/L	3.6E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.5E-09	4.2E-08	mg/kg-day	3.0E-04	mg/kg-day	1.4E-04
				Mercury	8E-02	ug/L	1.4E-10	mg/kg-day	N/A	N/A	N/A	1.6E-09	mg/kg-day	2.1E-05	mg/kg-day	7.7E-05
			Exp. Route Total								5E-09					2E-04
		Exposure Point Total									5E-09					2E-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 3-7.12.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Receptor Population: Area Resident
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	Storm Event Surface Water	SW-05	Dermal													
				Antimony	3E+00	ug/L	4.1E-10	mg/kg-day	N/A	N/A	N/A	1.4E-08	mg/kg-day	6.0E-05	mg/kg-day	2.4E-04
				Arsenic	2E+01	ug/L	2.9E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.4E-09	1.0E-07	mg/kg-day	3.0E-04	mg/kg-day	3.4E-04
				Chromium VI	1E+01	ug/L	3.1E-09	mg/kg-day	N/A	N/A	N/A	1.1E-07	mg/kg-day	7.5E-05	mg/kg-day	1.5E-03
				Manganese	4E+02	ug/L	6.1E-08	mg/kg-day	N/A	N/A	N/A	2.2E-06	mg/kg-day	2.8E-03	mg/kg-day	7.7E-04
				Mercury	9E-02	ug/L	1.4E-11	mg/kg-day	N/A	N/A	N/A	4.8E-10	mg/kg-day	2.1E-05	mg/kg-day	2.3E-05
			Exp. Route Total								4E-09					3E-03
		Exposure Point Total									4E-09					3E-03
		SW-06	Dermal													
				Antimony	3E+00	ug/L	4.3E-10	mg/kg-day	N/A	N/A	N/A	1.5E-08	mg/kg-day	6.0E-05	mg/kg-day	2.5E-04
				Arsenic	2E+01	ug/L	3.7E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.5E-09	1.3E-07	mg/kg-day	3.0E-04	mg/kg-day	4.3E-04
				Chromium VI	2E+01	ug/L	6.2E-09	mg/kg-day	N/A	N/A	N/A	2.2E-07	mg/kg-day	7.5E-05	mg/kg-day	2.9E-03
				Lead												
				Manganese	4E+02	ug/L	6.3E-08	mg/kg-day	N/A	N/A	N/A	2.2E-06	mg/kg-day	2.8E-03	mg/kg-day	7.9E-04
				Mercury	8E-02	ug/L	1.2E-11	mg/kg-day	N/A	N/A	N/A	4.3E-10	mg/kg-day	2.1E-05	mg/kg-day	2.0E-05
			Exp. Route Total								5E-09					4E-03
		Exposure Point Total									5E-09					4E-03
		SW-07	Dermal													
				Arsenic	1E+01	ug/L	2.1E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	3.2E-09	7.4E-08	mg/kg-day	3.0E-04	mg/kg-day	2.5E-04
				Chromium VI	1E+01	ug/L	2.9E-09	mg/kg-day	N/A	N/A	N/A	1.0E-07	mg/kg-day	7.5E-05	mg/kg-day	1.4E-03
				Lead												
				Manganese	2E+02	ug/L	3.7E-08	mg/kg-day	N/A	N/A	N/A	1.3E-06	mg/kg-day	2.8E-03	mg/kg-day	4.6E-04
				Mercury	8E-02	ug/L	1.2E-11	mg/kg-day	N/A	N/A	N/A	4.3E-10	mg/kg-day	2.1E-05	mg/kg-day	2.0E-05
			Exp. Route Total								3E-09					2E-03
		Exposure Point Total									3E-09					2E-03
		SW-08	Dermal													
				Antimony	1E+00	ug/L	2.2E-10	mg/kg-day	N/A	N/A	N/A	7.8E-09	mg/kg-day	6.0E-05	mg/kg-day	1.3E-04
				Arsenic	3E+01	ug/L	4.1E-09	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.1E-09	1.4E-07	mg/kg-day	3.0E-04	mg/kg-day	4.8E-04
				Chromium VI	5E+01	ug/L	1.5E-08	mg/kg-day	N/A	N/A	N/A	5.1E-07	mg/kg-day	7.5E-05	mg/kg-day	6.8E-03
				Lead												
				Manganese	6E+02	ug/L	9.5E-08	mg/kg-day	N/A	N/A	N/A	3.3E-06	mg/kg-day	2.8E-03	mg/kg-day	1.2E-03
				Mercury	2E-01	ug/L	2.7E-11	mg/kg-day	N/A	N/A	N/A	9.3E-10	mg/kg-day	2.1E-05	mg/kg-day	4.4E-05
				Thallium	2E+00	ug/L	2.8E-10	mg/kg-day	N/A	N/A	N/A	9.9E-09	mg/kg-day	8.0E-05	mg/kg-day	1.2E-04
			Exp. Route Total								6E-09					9E-03
		Exposure Point Total									6E-09					9E-03

TABLE 3-7.12.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Receptor Population: Area Resident
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 (cont.)	Storm Event Surface Water (cont.)	SW-09	Dermal	Antimony	2E+00	ug/L	2.7E-10	mg/kg-day	N/A	N/A	N/A	9.5E-09	mg/kg-day	6.0E-05	mg/kg-day	1.6E-04
				Arsenic	4E+00	ug/L	5.9E-10	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	8.8E-10	2.1E-08	mg/kg-day	3.0E-04	mg/kg-day	6.9E-05
			Exp. Route Total								9E-10					2E-04
		Exposure Point Total									9E-10					2E-04
		SW-10	Dermal	Arsenic	2E+00	ug/L	3.0E-10	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.6E-10	1.1E-08	mg/kg-day	3.0E-04	mg/kg-day	3.5E-05
				Mercury	8E-02	ug/L	1.2E-11	mg/kg-day	N/A	N/A	N/A	4.0E-10	mg/kg-day	2.1E-05	mg/kg-day	1.9E-05
			Exp. Route Total								5E-10					5E-05
		Exposure Point Total									5E-10					5E-05
	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 3-7.13.RME

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

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	SC05	Ingestion													
				Antimony	1E+01	mg/kg	4.4E-07	mg/kg-day	N/A	N/A	N/A	1.6E-05	mg/kg-day	4.0E-04	mg/kg-day	3.9E-02
				Arsenic	9E+02	mg/kg	3.4E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.6E-05	1.2E-03	mg/kg-day	5.9E-04	mg/kg-day	2.0E+00
				Cadmium	2E+01	mg/kg	8.5E-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
				Copper	2E+03	mg/kg	6.0E-05	mg/kg-day	N/A	N/A	N/A	2.1E-03	mg/kg-day	3.0E-02	mg/kg-day	7.0E-02
				Lead												
				Manganese	4E+02	mg/kg	1.5E-05	mg/kg-day	N/A	N/A	N/A	5.1E-04	mg/kg-day	7.0E-02	mg/kg-day	7.3E-03
				Mercury	2E+01	mg/kg	8.6E-07	mg/kg-day	N/A	N/A	N/A	3.0E-05	mg/kg-day	1.0E-04	mg/kg-day	3.0E-01
				Vanadium	6E+01	mg/kg	2.2E-06	mg/kg-day	N/A	N/A	N/A	7.6E-05	mg/kg-day	1.0E-03	mg/kg-day	7.6E-02
			Exp. Route Total								3E-05					3E+00
			Dermal													
				Arsenic	9E+02	mg/kg	3.3E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	5.0E-06	1.2E-04	mg/kg-day	3.0E-04	mg/kg-day	3.9E-01
				Cadmium	2E+01	mg/kg	2.8E-08	mg/kg-day	N/A	N/A	N/A	9.8E-07	mg/kg-day	2.5E-05	mg/kg-day	3.9E-02
			Exp. Route Total								5E-06					4E-01
		Exposure Point Total									3E-05					3E+00
		SC06	Ingestion													
				Arsenic	2E+03	mg/kg	6.3E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	4.9E-05	2.2E-03	mg/kg-day	5.9E-04	mg/kg-day	3.8E+00
				Cadmium	4E+01	mg/kg	1.6E-06	mg/kg-day	N/A	N/A	N/A	5.7E-05	mg/kg-day	1.0E-03	mg/kg-day	5.7E-02
				Copper	1E+03	mg/kg	3.5E-05	mg/kg-day	N/A	N/A	N/A	1.2E-03	mg/kg-day	3.0E-02	mg/kg-day	4.1E-02
				Lead												
				Manganese	2E+03	mg/kg	6.2E-05	mg/kg-day	N/A	N/A	N/A	2.2E-03	mg/kg-day	7.0E-02	mg/kg-day	3.1E-02
				Mercury	8E+00	mg/kg	3.1E-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	6E+01	mg/kg	2.4E-06	mg/kg-day	N/A	N/A	N/A	8.4E-05	mg/kg-day	1.0E-03	mg/kg-day	8.4E-02
				Zinc	4E+03	mg/kg	1.6E-04	mg/kg-day	N/A	N/A	N/A	5.5E-03	mg/kg-day	3.0E-01	mg/kg-day	1.8E-02
			Exp. Route Total								5E-05					4E+00
			Dermal													
				Arsenic	2E+03	mg/kg	6.3E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	9.4E-06	2.2E-04	mg/kg-day	3.0E-04	mg/kg-day	7.3E-01
				Cadmium	4E+01	mg/kg	5.3E-08	mg/kg-day	N/A	N/A	N/A	1.9E-06	mg/kg-day	2.5E-05	mg/kg-day	7.5E-02
			Exp. Route Total								9E-06					8E-01
		Exposure Point Total									6E-05					5E+00

TABLE 3-7.13.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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 (cont.)	Sediment Cores (cont.)	SC07	Ingestion													
				Arsenic	4E+02	mg/kg	1.5E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.1E-05	5.2E-04	mg/kg-day	5.9E-04	mg/kg-day	8.8E-01
				Cadmium	2E+01	mg/kg	8.3E-07	mg/kg-day	N/A	N/A	N/A	2.9E-05	mg/kg-day	1.0E-03	mg/kg-day	2.9E-02
				Copper	8E+02	mg/kg	3.1E-05	mg/kg-day	N/A	N/A	N/A	1.1E-03	mg/kg-day	3.0E-02	mg/kg-day	3.6E-02
				Lead												
				Manganese	2E+03	mg/kg	8.6E-05	mg/kg-day	N/A	N/A	N/A	3.0E-03	mg/kg-day	7.0E-02	mg/kg-day	4.3E-02
				Mercury	3E+00	mg/kg	1.3E-07	mg/kg-day	N/A	N/A	N/A	4.4E-06	mg/kg-day	1.0E-04	mg/kg-day	4.4E-02
				Vanadium	7E+01	mg/kg	2.5E-06	mg/kg-day	N/A	N/A	N/A	8.7E-05	mg/kg-day	1.0E-03	mg/kg-day	8.7E-02
				Zinc	4E+03	mg/kg	1.6E-04	mg/kg-day	N/A	N/A	N/A	5.7E-03	mg/kg-day	3.0E-01	mg/kg-day	1.9E-02
			Exp. Route Total								1E-05					1E+00
			Dermal													
				Arsenic	4E+02	mg/kg	1.5E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	2.2E-06	5.2E-05	mg/kg-day	3.0E-04	mg/kg-day	1.7E-01
				Cadmium	2E+01	mg/kg	2.7E-08	mg/kg-day	N/A	N/A	N/A	9.6E-07	mg/kg-day	2.5E-05	mg/kg-day	3.8E-02
			Exp. Route Total								2E-06					2E-01
		Exposure Point Total									1E-05					1E+00
		SC08	Ingestion													
				Arsenic	1E+03	mg/kg	4.7E-05	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.6E-05	1.6E-03	mg/kg-day	5.9E-04	mg/kg-day	2.8E+00
				Cadmium	2E+01	mg/kg	8.4E-07	mg/kg-day	N/A	N/A	N/A	2.9E-05	mg/kg-day	1.0E-03	mg/kg-day	2.9E-02
				Copper	1E+03	mg/kg	5.3E-05	mg/kg-day	N/A	N/A	N/A	1.8E-03	mg/kg-day	3.0E-02	mg/kg-day	6.1E-02
				Lead												
				Manganese	5E+02	mg/kg	1.9E-05	mg/kg-day	N/A	N/A	N/A	6.8E-04	mg/kg-day	7.0E-02	mg/kg-day	9.7E-03
				Mercury	1E+01	mg/kg	5.2E-07	mg/kg-day	N/A	N/A	N/A	1.8E-05	mg/kg-day	1.0E-04	mg/kg-day	1.8E-01
				Vanadium	7E+01	mg/kg	2.5E-06	mg/kg-day	N/A	N/A	N/A	8.7E-05	mg/kg-day	1.0E-03	mg/kg-day	8.7E-02
				Zinc	2E+03	mg/kg	8.6E-05	mg/kg-day	N/A	N/A	N/A	3.0E-03	mg/kg-day	3.0E-01	mg/kg-day	1.0E-02
			Exp. Route Total								4E-05					3E+00
			Dermal													
				Arsenic	1E+03	mg/kg	4.6E-06	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.9E-06	1.6E-04	mg/kg-day	3.0E-04	mg/kg-day	5.4E-01
				Cadmium	2E+01	mg/kg	2.8E-08	mg/kg-day	N/A	N/A	N/A	9.7E-07	mg/kg-day	2.5E-05	mg/kg-day	3.9E-02
			Exp. Route Total								7E-06					6E-01
		Exposure Point Total									4E-05					4E+00
		SC09	Ingestion													
				Arsenic	9E+01	mg/kg	3.3E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.6E-06	1.2E-04	mg/kg-day	5.9E-04	mg/kg-day	2.0E-01
				Mercury	1E+00	mg/kg	4.5E-08	mg/kg-day	N/A	N/A	N/A	1.6E-06	mg/kg-day	1.0E-04	mg/kg-day	1.6E-02
			Exp. Route Total								3E-06					2E-01
			Dermal													
				Arsenic	9E+01	mg/kg	3.3E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.9E-07	1.2E-05	mg/kg-day	3.0E-04	mg/kg-day	3.8E-02
			Exp. Route Total								5E-07					4E-02
		Exposure Point Total									3E-06					3E-01

TABLE 3-7.13.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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 (cont.)	Sediment Cores (cont.)	SC10	Ingestion	Arsenic	6E+01	mg/kg	2.2E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	1.7E-06	7.7E-05	mg/kg-day	5.9E-04	mg/kg-day	1.3E-01
			Exp. Route Total								2E-06					1E-01
			Dermal	Arsenic	6E+01	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
			Exp. Route Total								3E-07					3E-02
		Exposure Point Total									2E-06					2E-01
		SC11	Ingestion	Arsenic	1E+02	mg/kg	4.1E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.2E-06	1.4E-04	mg/kg-day	5.9E-04	mg/kg-day	2.4E-01
				Cadmium	7E+00	mg/kg	2.7E-07	mg/kg-day	N/A	N/A	N/A	9.4E-06	mg/kg-day	1.0E-03	mg/kg-day	9.4E-03
				Copper	3E+02	mg/kg	1.2E-05	mg/kg-day	N/A	N/A	N/A	4.3E-04	mg/kg-day	3.0E-02	mg/kg-day	1.4E-02
				Lead												
				Manganese	6E+02	mg/kg	2.3E-05	mg/kg-day	N/A	N/A	N/A	8.0E-04	mg/kg-day	7.0E-02	mg/kg-day	1.1E-02
				Mercury	2E+00	mg/kg	8.0E-08	mg/kg-day	N/A	N/A	N/A	2.8E-06	mg/kg-day	1.0E-04	mg/kg-day	2.8E-02
				Vanadium	7E+01	mg/kg	2.6E-06	mg/kg-day	N/A	N/A	N/A	9.1E-05	mg/kg-day	1.0E-03	mg/kg-day	9.1E-02
			Exp. Route Total								3E-06					4E-01
			Dermal	Arsenic	1E+02	mg/kg	4.1E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.1E-07	1.4E-05	mg/kg-day	3.0E-04	mg/kg-day	4.7E-02
				Cadmium	7E+00	mg/kg	8.9E-09	mg/kg-day	N/A	N/A	N/A	3.1E-07	mg/kg-day	2.5E-05	mg/kg-day	1.2E-02
			Exp. Route Total								6E-07					6E-02
		Exposure Point Total									4E-06					5E-01
		SC12	Ingestion	Arsenic	1E+02	mg/kg	4.9E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.7E-06	1.7E-04	mg/kg-day	5.9E-04	mg/kg-day	2.9E-01
				Cadmium	1E+01	mg/kg	4.1E-07	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	1.0E-03	mg/kg-day	1.4E-02
				Copper	4E+02	mg/kg	1.7E-05	mg/kg-day	N/A	N/A	N/A	5.8E-04	mg/kg-day	3.0E-02	mg/kg-day	1.9E-02
				Lead												
				Manganese	9E+02	mg/kg	3.4E-05	mg/kg-day	N/A	N/A	N/A	1.2E-03	mg/kg-day	7.0E-02	mg/kg-day	1.7E-02
				Mercury	3E+00	mg/kg	1.0E-07	mg/kg-day	N/A	N/A	N/A	3.5E-06	mg/kg-day	1.0E-04	mg/kg-day	3.5E-02
				Vanadium	8E+01	mg/kg	3.1E-06	mg/kg-day	N/A	N/A	N/A	1.1E-04	mg/kg-day	1.0E-03	mg/kg-day	1.1E-01
			Exp. Route Total								4E-06					5E-01
			Dermal	Arsenic	1E+02	mg/kg	4.8E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	7.2E-07	1.7E-05	mg/kg-day	3.0E-04	mg/kg-day	5.6E-02
				Cadmium	1E+01	mg/kg	1.4E-08	mg/kg-day	N/A	N/A	N/A	4.7E-07	mg/kg-day	2.5E-05	mg/kg-day	1.9E-02
			Exp. Route Total								7E-07					8E-02
		Exposure Point Total									4E-06					6E-01

TABLE 3-7.13.RME
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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 (cont.)	Sediment Cores (cont.)	SC13	Ingestion													
				Arsenic	1E+02	mg/kg	4.4E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.4E-06	1.5E-04	mg/kg-day	5.9E-04	mg/kg-day	2.6E-01
				Cadmium	1E+01	mg/kg	4.3E-07	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	1.0E-03	mg/kg-day	1.5E-02
				Copper	5E+02	mg/kg	1.7E-05	mg/kg-day	N/A	N/A	N/A	6.0E-04	mg/kg-day	3.0E-02	mg/kg-day	2.0E-02
				Lead												
				Manganese	3E+02	mg/kg	1.3E-05	mg/kg-day	N/A	N/A	N/A	4.6E-04	mg/kg-day	7.0E-02	mg/kg-day	6.5E-03
				Mercury	2E+00	mg/kg	7.8E-08	mg/kg-day	N/A	N/A	N/A	2.7E-06	mg/kg-day	1.0E-04	mg/kg-day	2.7E-02
				Vanadium	8E+01	mg/kg	3.0E-06	mg/kg-day	N/A	N/A	N/A	1.0E-04	mg/kg-day	1.0E-03	mg/kg-day	1.0E-01
				Zinc	3E+03	mg/kg	9.3E-05	mg/kg-day	N/A	N/A	N/A	3.3E-03	mg/kg-day	3.0E-01	mg/kg-day	1.1E-02
			Exp. Route Total								3E-06					4E-01
			Dermal													
				Arsenic	1E+02	mg/kg	4.3E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	6.5E-07	1.5E-05	mg/kg-day	3.0E-04	mg/kg-day	5.1E-02
				Cadmium	1E+01	mg/kg	1.4E-08	mg/kg-day	N/A	N/A	N/A	5.0E-07	mg/kg-day	2.5E-05	mg/kg-day	2.0E-02
			Exp. Route Total								7E-07					7E-02
		Exposure Point Total									4E-06					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 3-7.13.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

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	SC05	Ingestion													
				Antimony	1E+01	mg/kg	1.1E-07	mg/kg-day	N/A	N/A	N/A	7.7E-06	mg/kg-day	4.0E-04	mg/kg-day	1.9E-02
				Arsenic	5E+02	mg/kg	5.0E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	3.8E-06	3.5E-04	mg/kg-day	5.9E-04	mg/kg-day	5.9E-01
				Cadmium	2E+01	mg/kg	2.1E-07	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	1.0E-03	mg/kg-day	1.5E-02
				Copper	1E+03	mg/kg	9.2E-06	mg/kg-day	N/A	N/A	N/A	6.4E-04	mg/kg-day	3.0E-02	mg/kg-day	2.1E-02
				Lead												
				Manganese	4E+02	mg/kg	3.3E-06	mg/kg-day	N/A	N/A	N/A	2.3E-04	mg/kg-day	7.0E-02	mg/kg-day	3.3E-03
				Mercury	2E+01	mg/kg	2.1E-07	mg/kg-day	N/A	N/A	N/A	1.5E-05	mg/kg-day	1.0E-04	mg/kg-day	1.5E-01
				Vanadium	6E+01	mg/kg	5.4E-07	mg/kg-day	N/A	N/A	N/A	3.8E-05	mg/kg-day	1.0E-03	mg/kg-day	3.8E-02
			Exp. Route Total								4E-06					8E-01
			Dermal													
				Arsenic	5E+02	mg/kg	4.9E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	7.4E-07	3.4E-05	mg/kg-day	3.0E-04	mg/kg-day	1.1E-01
				Cadmium	2E+01	mg/kg	6.9E-09	mg/kg-day	N/A	N/A	N/A	4.9E-07	mg/kg-day	2.5E-05	mg/kg-day	1.9E-02
			Exp. Route Total								7E-07					1E-01
		Exposure Point Total									5E-06					1E+00
		SC06	Ingestion													
				Arsenic	9E+02	mg/kg	8.0E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	6.1E-06	5.6E-04	mg/kg-day	5.9E-04	mg/kg-day	9.5E-01
				Cadmium	4E+01	mg/kg	4.0E-07	mg/kg-day	N/A	N/A	N/A	2.8E-05	mg/kg-day	1.0E-03	mg/kg-day	2.8E-02
				Copper	5E+02	mg/kg	4.6E-06	mg/kg-day	N/A	N/A	N/A	3.3E-04	mg/kg-day	3.0E-02	mg/kg-day	1.1E-02
				Lead												
				Manganese	2E+03	mg/kg	1.5E-05	mg/kg-day	N/A	N/A	N/A	1.1E-03	mg/kg-day	7.0E-02	mg/kg-day	1.5E-02
				Mercury	5E+00	mg/kg	4.4E-08	mg/kg-day	N/A	N/A	N/A	3.1E-06	mg/kg-day	1.0E-04	mg/kg-day	3.1E-02
				Vanadium	4E+01	mg/kg	3.3E-07	mg/kg-day	N/A	N/A	N/A	2.3E-05	mg/kg-day	1.0E-03	mg/kg-day	2.3E-02
				Zinc	4E+03	mg/kg	3.9E-05	mg/kg-day	N/A	N/A	N/A	2.7E-03	mg/kg-day	3.0E-01	mg/kg-day	9.1E-03
			Exp. Route Total								6E-06					1E+00
			Dermal													
				Arsenic	9E+02	mg/kg	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
				Cadmium	4E+01	mg/kg	1.3E-08	mg/kg-day	N/A	N/A	N/A	9.3E-07	mg/kg-day	2.5E-05	mg/kg-day	3.7E-02
			Exp. Route Total								1E-06					2E-01
		Exposure Point Total									7E-06					1E+00

TABLE 3-7.13.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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 (cont.)	Sediment Cores (cont.)	SC07	Ingestion													
				Arsenic	4E+02	mg/kg	3.7E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.9E-06	2.6E-04	mg/kg-day	5.9E-04	mg/kg-day	4.4E-01
				Cadmium	2E+01	mg/kg	2.1E-07	mg/kg-day	N/A	N/A	N/A	1.4E-05	mg/kg-day	1.0E-03	mg/kg-day	1.4E-02
				Copper	8E+02	mg/kg	7.6E-06	mg/kg-day	N/A	N/A	N/A	5.3E-04	mg/kg-day	3.0E-02	mg/kg-day	1.8E-02
				Lead												
				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	3E+00	mg/kg	3.1E-08	mg/kg-day	N/A	N/A	N/A	2.2E-06	mg/kg-day	1.0E-04	mg/kg-day	2.2E-02
				Vanadium	7E+01	mg/kg	6.2E-07	mg/kg-day	N/A	N/A	N/A	4.3E-05	mg/kg-day	1.0E-03	mg/kg-day	4.3E-02
				Zinc	4E+03	mg/kg	4.0E-05	mg/kg-day	N/A	N/A	N/A	2.8E-03	mg/kg-day	3.0E-01	mg/kg-day	9.4E-03
			Exp. Route Total								3E-06					6E-01
			Dermal													
				Arsenic	4E+02	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
				Cadmium	2E+01	mg/kg	6.8E-09	mg/kg-day	N/A	N/A	N/A	4.8E-07	mg/kg-day	2.5E-05	mg/kg-day	1.9E-02
			Exp. Route Total								6E-07					1E-01
		Exposure Point Total									3E-06					7E-01
		SC08	Ingestion													
				Arsenic	4E+02	mg/kg	3.3E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	2.5E-06	2.3E-04	mg/kg-day	5.9E-04	mg/kg-day	3.9E-01
				Cadmium	7E+00	mg/kg	6.4E-08	mg/kg-day	N/A	N/A	N/A	4.5E-06	mg/kg-day	1.0E-03	mg/kg-day	4.5E-03
				Copper	4E+02	mg/kg	3.6E-06	mg/kg-day	N/A	N/A	N/A	2.5E-04	mg/kg-day	3.0E-02	mg/kg-day	8.4E-03
				Lead												
				Manganese	5E+02	mg/kg	4.8E-06	mg/kg-day	N/A	N/A	N/A	3.4E-04	mg/kg-day	7.0E-02	mg/kg-day	4.8E-03
				Mercury	4E+00	mg/kg	3.5E-08	mg/kg-day	N/A	N/A	N/A	2.4E-06	mg/kg-day	1.0E-04	mg/kg-day	2.4E-02
				Vanadium	2E+01	mg/kg	1.9E-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
				Zinc	2E+03	mg/kg	2.1E-05	mg/kg-day	N/A	N/A	N/A	1.5E-03	mg/kg-day	3.0E-01	mg/kg-day	5.0E-03
			Exp. Route Total								3E-06					4E-01
			Dermal													
				Arsenic	4E+02	mg/kg	3.2E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	4.9E-07	2.3E-05	mg/kg-day	3.0E-04	mg/kg-day	7.6E-02
				Cadmium	7E+00	mg/kg	2.1E-09	mg/kg-day	N/A	N/A	N/A	1.5E-07	mg/kg-day	2.5E-05	mg/kg-day	5.9E-03
			Exp. Route Total								5E-07					8E-02
		Exposure Point Total									3E-06					5E-01
		SC09	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
				Mercury	6E-01	mg/kg	5.2E-09	mg/kg-day	N/A	N/A	N/A	3.7E-07	mg/kg-day	1.0E-04	mg/kg-day	3.7E-03
			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) $^{-1}$	6.6E-08	3.1E-06	mg/kg-day	3.0E-04	mg/kg-day	1.0E-02
			Exp. Route Total								7E-08					1E-02
		Exposure Point Total									4E-07					7E-02

TABLE 3-7.13.CT
CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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 (cont.)	Sediment Cores (cont.)	SC10	Ingestion	Arsenic	6E+01	mg/kg	5.5E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	4.2E-07	3.8E-05	mg/kg-day	5.9E-04	mg/kg-day	6.5E-02
			Exp. Route Total								4E-07					6E-02
			Dermal	Arsenic	6E+01	mg/kg	5.4E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	8.1E-08	3.8E-06	mg/kg-day	3.0E-04	mg/kg-day	1.3E-02
			Exp. Route Total								8E-06					1E-02
		Exposure Point Total									5E-07					8E-02
		SC11	Ingestion	Arsenic	1E+02	mg/kg	9.4E-07	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	7.2E-07	6.5E-05	mg/kg-day	5.9E-04	mg/kg-day	1.1E-01
				Cadmium	6E+00	mg/kg	5.5E-08	mg/kg-day	N/A	N/A	N/A	3.8E-06	mg/kg-day	1.0E-03	mg/kg-day	3.8E-03
				Copper	3E+02	mg/kg	3.0E-06	mg/kg-day	N/A	N/A	N/A	2.1E-04	mg/kg-day	3.0E-02	mg/kg-day	7.0E-03
				Lead												
				Manganese	6E+02	mg/kg	5.7E-06	mg/kg-day	N/A	N/A	N/A	4.0E-04	mg/kg-day	7.0E-02	mg/kg-day	5.7E-03
				Mercury	2E+00	mg/kg	2.0E-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	7E+01	mg/kg	6.5E-07	mg/kg-day	N/A	N/A	N/A	4.5E-05	mg/kg-day	1.0E-03	mg/kg-day	4.5E-02
			Exp. Route Total								7E-07					2E-01
			Dermal	Arsenic	1E+02	mg/kg	9.3E-08	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.4E-07	6.5E-06	mg/kg-day	3.0E-04	mg/kg-day	2.2E-02
				Cadmium	6E+00	mg/kg	1.8E-09	mg/kg-day	N/A	N/A	N/A	1.3E-07	mg/kg-day	2.5E-05	mg/kg-day	5.1E-03
			Exp. Route Total								1E-07					3E-02
		Exposure Point Total									9E-07					2E-01
		SC12	Ingestion	Arsenic	1E+02	mg/kg	1.0E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	8.0E-07	7.3E-05	mg/kg-day	5.9E-04	mg/kg-day	1.2E-01
				Cadmium	1E+01	mg/kg	9.6E-08	mg/kg-day	N/A	N/A	N/A	6.7E-06	mg/kg-day	1.0E-03	mg/kg-day	6.7E-03
				Copper	4E+02	mg/kg	4.1E-06	mg/kg-day	N/A	N/A	N/A	2.9E-04	mg/kg-day	3.0E-02	mg/kg-day	9.7E-03
				Lead												
				Manganese	9E+02	mg/kg	8.4E-06	mg/kg-day	N/A	N/A	N/A	5.9E-04	mg/kg-day	7.0E-02	mg/kg-day	8.4E-03
				Mercury	3E+00	mg/kg	2.4E-08	mg/kg-day	N/A	N/A	N/A	1.7E-06	mg/kg-day	1.0E-04	mg/kg-day	1.7E-02
				Vanadium	8E+01	mg/kg	7.7E-07	mg/kg-day	N/A	N/A	N/A	5.4E-05	mg/kg-day	1.0E-03	mg/kg-day	5.4E-02
			Exp. Route Total								8E-07					2E-01
			Dermal	Arsenic	1E+02	mg/kg	1.0E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.6E-07	7.2E-06	mg/kg-day	3.0E-04	mg/kg-day	2.4E-02
				Cadmium	1E+01	mg/kg	3.2E-09	mg/kg-day	N/A	N/A	N/A	2.2E-07	mg/kg-day	2.5E-05	mg/kg-day	8.9E-03
			Exp. Route Total								2E-07					3E-02
		Exposure Point Total									1E-06					3E-01

TABLE 3-7.13.CT

CALCULATION OF CHEMICAL CANCER RISKS AND NON-CANCER HAZARDS

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

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 (cont.)	Sediment Cores (cont.)	SC13	Ingestion													
				Arsenic	1E+02	mg/kg	1.1E-06	mg/kg-day	7.7E-01	(mg/kg-day) $^{-1}$	8.4E-07	7.6E-05	mg/kg-day	5.9E-04	mg/kg-day	1.3E-01
				Cadmium	1E+01	mg/kg	1.1E-07	mg/kg-day	N/A	N/A	N/A	7.6E-06	mg/kg-day	1.0E-03	mg/kg-day	7.6E-03
				Copper	3E+02	mg/kg	3.1E-06	mg/kg-day	N/A	N/A	N/A	2.2E-04	mg/kg-day	3.0E-02	mg/kg-day	7.2E-03
				Lead												
				Manganese	3E+02	mg/kg	3.2E-06	mg/kg-day	N/A	N/A	N/A	2.3E-04	mg/kg-day	7.0E-02	mg/kg-day	3.2E-03
				Mercury	2E+00	mg/kg	1.4E-08	mg/kg-day	N/A	N/A	N/A	1.0E-06	mg/kg-day	1.0E-04	mg/kg-day	1.0E-02
				Vanadium	8E+01	mg/kg	7.3E-07	mg/kg-day	N/A	N/A	N/A	5.1E-05	mg/kg-day	1.0E-03	mg/kg-day	5.1E-02
				Zinc	2E+03	mg/kg	1.5E-05	mg/kg-day	N/A	N/A	N/A	1.1E-03	mg/kg-day	3.0E-01	mg/kg-day	3.5E-03
			Exp. Route Total								8E-07					2E-01
			Dermal													
				Arsenic	1E+02	mg/kg	1.1E-07	mg/kg-day	1.5E+00	(mg/kg-day) $^{-1}$	1.6E-07	7.6E-06	mg/kg-day	3.0E-04	mg/kg-day	2.5E-02
				Cadmium	1E+01	mg/kg	3.6E-09	mg/kg-day	N/A	N/A	N/A	2.5E-07	mg/kg-day	2.5E-05	mg/kg-day	1.0E-02
			Exp. Route Total								2E-07					4E-02
		Exposure Point Total									1E-06					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 3-8.1.RME

CALCULATION OF RADIATION CANCER RISKS

Reasonable Maximum Exposure

WELLS G&H SUPERFUND SITE OU3

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	
			Exp. Route Total									
				NOT APPLICABLE								
			Exp. Route Total									
		Exposure Point Total										
	Exposure Medium Total											
			Exp. Route Total									
		Exposure Point Total										
	Exposure Medium Total											
Medium Total												
			Exp. Route Total									
			Exp. Route Total									
		Exposure Point Total										
	Exposure Medium Total											
Medium Total												

Total of Receptor Risks Across All Media

TABLE 3-8.1.CT

CALCULATION OF RADIATION CANCER RISKS

Central Tendency

WELLS G&H SUPERFUND SITE OU3

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	
			Exp. Route Total									
				NOT APPLICABLE								
			Exp. Route Total									
		Exposure Point Total										
	Exposure Medium Total											
			Exp. Route Total									
		Exposure Point Total										
	Exposure Medium Total											
Medium Total												
			Exp. Route Total									
			Exp. Route Total									
		Exposure Point Total										
	Exposure Medium Total											
Medium Total												

Total of Receptor Risks Across All Media

TABLE 3-9.1.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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
Surface Water	Surface Water	Station NR (Reach 1)	Heptachlor epoxide	--	--	4E-09	--	4E-09	Liver	--	--	1E-04	1E-04
			Arsenic	--	--	2E-07	--	2E-07	Skin	--	--	2E-03	2E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	1E-03	1E-03
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	2E-02	2E-02
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	3E-03	3E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	4E-04	4E-04
			Chemical Total	--	--	2E-07	--	2E-07		--	--	3E-02	3E-02
			Radionuclide Total										
		Exposure Point Total						2E-07					3E-02
	Exposure Medium Total							2E-07					3E-02
Medium Total								2E-07					3E-02
Sediment	Sediment	Station NR	Arsenic	1E-05	--	4E-06	--	1E-05	Skin	2E-01	--	6E-02	2E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	4E-04	--	--	4E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	1E-03	--	2E-03	3E-03
			Chromium III	N/A	--	--	--	N/A	General Toxicity	8E-05	--	--	8E-05
			Copper	N/A	--	--	--	N/A	Kidney	5E-03	--	--	5E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	2E-03	--	--	2E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	2E-02	--	--	2E-02
			Nickel	N/A	--	--	--	N/A	General Toxicity	3E-04	--	--	3E-04
			Vanadium	N/A	--	--	--	N/A	Kidney	1E-02	--	--	1E-02
			Zinc	N/A	--	--	--	N/A	Blood	8E-04	--	--	8E-04
			Chemical Total	1E-05	--	4E-06	--	1E-05		2E-01	--	6E-02	3E-01
			Radionuclide Total										
		Exposure Point Total						1E-05					3E-01
	Exposure Medium Total							1E-05					3E-01
Medium Total								1E-05					3E-01
Soil	Surface Soil	Station NR	Arsenic	2E-05	--	3E-06	--	2E-05	Skin	3E-01	--	5E-02	4E-01
			Cadmium	N/A	--	N/A	--	N/A	Kidney	1E-03	--	2E-03	3E-03
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	3E-02	--	--	3E-02
			Copper	N/A	--	--	--	N/A	Kidney	3E-03	--	--	3E-03
			Manganese	N/A	--	--	--	N/A	Nervous System	8E-03	--	--	8E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	8E-03	--	--	8E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	1E-02	--	--	1E-02
			Zinc	N/A	--	--	--	N/A	Blood	8E-04	--	--	8E-04
			Chemical Total	2E-05	--	3E-06	--	2E-05		4E-01	--	6E-02	4E-01
			Radionuclide Total										
		Exposure Point Total						2E-05					4E-01
	Exposure Medium Total							2E-05					4E-01
Medium Total								2E-05					4E-01
Receptor Total								3E-05					7E-01

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-05

Total Hazard Across All Media: 7E-01

Total Skin HI =	6E-01
Total Nervous System HI =	4E-02
Total Immune System HI =	4E-04
Total Kidney HI =	4E-02
Total Blood HI =	2E-03
Total General Toxicity HI =	4E-04
Total Liver HI =	1E-04
Total Gastrointestinal System HI =	5E-02
Total Cardiovascular HI =	4E-04
Total Developmental HI =	N/A

TABLE 3-8.1.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult: Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Non-Carcinogenic Hazard Quotient Young Child: Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station NR (Reach 1)	Heptachlor epoxide	--	--	8E-10	--	8E-10	Liver	--	--	9E-05	9E-05
			Arsenic	--	--	3E-08	--	3E-08	Skin	--	--	1E-03	1E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	1E-04	1E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	1E-02	1E-02
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	1E-03	1E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	2E-04	2E-04
			Chemical Total	--	--	3E-08	--	3E-08		--	--	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						3E-08					1E-02
	Exposure Medium Total							3E-08					1E-02
Medium Total								3E-08					1E-02
Sediment	Sediment	Station NR	Arsenic	2E-06	--	1E-06	--	3E-06	Skin	9E-02	--	6E-02	1E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	2E-04	--	--	2E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	9E-04	--	2E-03	3E-03
			Chromium III	N/A	--	--	--	N/A	General Toxicity	4E-05	--	--	4E-05
			Copper	N/A	--	--	--	N/A	Kidney	2E-03	--	--	2E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	8E-04	--	--	8E-04
			Mercury	N/A	--	--	--	N/A	Nervous System	1E-02	--	--	1E-02
			Nickel	N/A	--	--	--	N/A	General Toxicity	2E-04	--	--	2E-04
			Vanadium	N/A	--	--	--	N/A	Kidney	7E-03	--	--	7E-03
			Zinc	N/A	--	--	--	N/A	Blood	4E-04	--	--	4E-04
			Chemical Total	2E-06	--	1E-06	--	3E-06		1E-01	--	6E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						3E-06					2E-01
	Exposure Medium Total							3E-06					2E-01
Medium Total								3E-06					2E-01
Soil	Surface Soil	Station NR	Arsenic	3E-06	--	1E-06	--	4E-06	Skin	2E-01	--	5E-02	2E-01
			Cadmium	N/A	--	N/A	--	N/A	Kidney	6E-04	--	2E-03	3E-03
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	1E-02	--	--	1E-02
			Copper	N/A	--	--	--	N/A	Kidney	1E-03	--	--	1E-03
			Manganese	N/A	--	--	--	N/A	Nervous System	1E-03	--	--	1E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	2E-03	--	--	2E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	6E-03	--	--	6E-03
			Zinc	N/A	--	--	--	N/A	Blood	4E-04	--	--	4E-04
			Chemical Total	3E-06	--	1E-06	--	4E-06		2E-01	--	6E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						4E-06					2E-01
	Exposure Medium Total							4E-06					2E-01
Medium Total								4E-06					2E-01
Receptor Total								7E-06					4E-01

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 7E-06

Total Hazard Across All Media: 4E-01

Total Skin HI =	4E-01
Total Nervous System HI =	2E-02
Total Immune System HI =	2E-04
Total Kidney HI =	2E-02
Total Blood HI =	8E-04
Total General Toxicity HI =	2E-04
Total Liver HI =	9E-05
Total Gastrointestinal System HI =	2E-02
Total Cardiovascular HI =	2E-04
Total Developmental HI =	N/A

TABLE 3-9.2.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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
Surface Water	Surface Water	Station 14 (Reach 1)	Heptachlor epoxide	--	--	4E-09	--	4E-09	Liver	--	--	1E-04	1E-04
			Arsenic	--	--	2E-07	--	2E-07	Skin	--	--	2E-03	2E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	1E-03	1E-03
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	2E-02	2E-02
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	3E-03	3E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	4E-04	4E-04
			Chemical Total	--	--	2E-07	--	2E-07		--	--	3E-02	3E-02
			Radionuclide Total										
		Exposure Point Total						2E-07					3E-02
	Exposure Medium Total							2E-07					3E-02
Medium Total								2E-07					3E-02
Sediment	Sediment	Station 14	Benzo(a)anthracene	5E-08	--	4E-08	--	9E-08	N/A	N/A	--	N/A	N/A
			Benzo(a)pyrene	4E-07	--	3E-07	--	7E-07	N/A	N/A	--	N/A	N/A
			Benzo(b)fluoranthene	9E-08	--	7E-08	--	2E-07	N/A	N/A	--	N/A	N/A
			Benzo(k)fluoranthene	5E-09	--	4E-09	--	9E-09	N/A	N/A	--	N/A	N/A
			Phenanthrene	N/A	--	N/A	--	N/A	General Toxicity	6E-05	--	4E-05	1E-04
			Antimony	N/A	--	--	--	N/A	Blood	1E-03	--	--	1E-03
			Arsenic	3E-06	--	1E-06	--	4E-06	Skin	6E-02	--	2E-02	8E-02
			Barium	N/A	--	--	--	N/A	Cardiovascular	1E-04	--	--	1E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	5E-04	--	1E-03	2E-03
			Chromium III	N/A	--	--	--	N/A	General Toxicity	7E-05	--	--	7E-05
			Copper	N/A	--	--	--	N/A	Kidney	1E-03	--	--	1E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	1E-03	--	--	1E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	7E-03	--	--	7E-03
			Nickel	N/A	--	--	--	N/A	General Toxicity	2E-04	--	--	2E-04
			Thallium	N/A	--	--	--	N/A	Blood	5E-03	--	--	5E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	6E-03	--	--	6E-03
			Zinc	N/A	--	--	--	N/A	Blood	4E-04	--	--	4E-04
			Chemical Total	4E-06	--	2E-06	--	5E-06		8E-02	--	2E-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								6E-06					1E-01

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 6E-06

Total Hazard Across All Media: 1E-01

Total Skin HI =	8E-02
Total Nervous System HI =	1E-02
Total Immune System HI =	4E-04
Total Kidney HI =	1E-02
Total Blood HI =	6E-03
Total General Toxicity HI =	4E-04
Total Liver HI =	1E-04
Total Gastrointestinal System HI =	2E-02
Total Cardiovascular HI =	1E-04
Total Developmental HI =	N/A

TABLE 3-9.2.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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
Surface Water	Surface Water	Station 14 (Reach 1)	Heptachlor epoxide	--	--	8E-10	--	8E-10	Liver	--	--	9E-05	9E-05
			Arsenic	--	--	3E-08	--	3E-08	Skin	--	--	1E-03	1E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	1E-04	1E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	1E-02	1E-02
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	1E-03	1E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	2E-04	2E-04
			Chemical Total	--	--	3E-08	--	3E-08		--	--	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						3E-08					1E-02
	Exposure Medium Total							3E-08					1E-02
Medium Total								3E-08					1E-02
Sediment	Sediment	Station 14	Benzo(a)anthracene	7E-09	--	1E-08	--	2E-08	N/A	N/A	--	N/A	N/A
			Benzo(a)pyrene	6E-08	--	1E-07	--	2E-07	N/A	N/A	--	N/A	N/A
			Benzo(b)fluoranthene	1E-08	--	2E-08	--	3E-08	N/A	N/A	--	N/A	N/A
			Benzo(k)fluoranthene	7E-10	--	1E-09	--	2E-09	N/A	N/A	--	N/A	N/A
			Phenanthrene	N/A	--	N/A	--	N/A	General Toxicity	2E-05	--	3E-05	4E-05
			Antimony	N/A	--	--	--	N/A	Blood	5E-04	--	--	5E-04
			Arsenic	4E-07	--	3E-07	--	8E-07	Skin	2E-02	--	2E-02	4E-02
			Barium	N/A	--	--	--	N/A	Cardiovascular	5E-05	--	--	5E-05
			Cadmium	N/A	--	N/A	--	N/A	Kidney	2E-04	--	7E-04	8E-04
			Chromium III	N/A	--	--	--	N/A	General Toxicity	2E-05	--	--	2E-05
			Copper	N/A	--	--	--	N/A	Kidney	5E-04	--	--	5E-04
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	4E-04	--	--	4E-04
			Mercury	N/A	--	--	--	N/A	Nervous System	1E-03	--	--	1E-03
			Nickel	N/A	--	--	--	N/A	General Toxicity	9E-05	--	--	9E-05
			Thallium	N/A	--	--	--	N/A	Blood	1E-03	--	--	1E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	3E-03	--	--	3E-03
			Zinc	N/A	--	--	--	N/A	Blood	2E-04	--	--	2E-04
			Chemical Total	5E-07	--	4E-07	--	1E-06		3E-02	--	2E-02	5E-02
			Radionuclide Total										
		Exposure Point Total						1E-06					6E-02
	Exposure Medium Total							1E-06					5E-02
Medium Total								1E-06					5E-02
Receptor Total								1E-06					6E-02

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-06

Total Hazard Across All Media: 6E-02

Total Skin HI =	4E-02
Total Nervous System HI =	3E-03
Total Immune System HI =	2E-04
Total Kidney HI =	4E-03
Total Blood HI =	2E-03
Total General Toxicity HI =	1E-04
Total Liver HI =	9E-05
Total Gastrointestinal System HI =	1E-02
Total Cardiovascular HI =	5E-05
Total Developmental HI =	N/A

TABLE 3-8.3.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult: Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Non-Carcinogenic Hazard Quotient Young Child: Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 22/TT-22 (Reach 1)	Heptachlor epoxide	--	--	4E-09	--	4E-09	Liver	--	--	1E-04	1E-04
			Arsenic	--	--	2E-07	--	2E-07	Skin	--	--	2E-03	2E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	1E-03	1E-03
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	2E-02	2E-02
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	3E-03	3E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	4E-04	4E-04
			Chemical Total	--	--	2E-07	--	2E-07		--	--	3E-02	3E-02
			Radionuclide Total										
		Exposure Point Total						2E-07					3E-02
	Exposure Medium Total							2E-07					3E-02
Medium Total								2E-07					3E-02
Sediment	Sediment	Station 22/TT-22	Tetrachloroethene	9E-06	--	--	--	9E-06	Liver	1E-04	--	--	1E-04
			Trichloroethene	2E-06	--	--	--	2E-06	Liver	1E-03	--	--	1E-03
			Benzo(a)anthracene	1E-06	--	1E-06	--	2E-06	N/A	N/A	--	N/A	N/A
			Benzo(a)pyrene	8E-06	--	7E-08	--	2E-07	N/A	N/A	--	N/A	N/A
			Benzo(b)fluoranthene	2E-06	--	2E-06	--	3E-06	N/A	N/A	--	N/A	N/A
			Benzo(k)fluoranthene	2E-06	--	2E-06	--	4E-06	N/A	N/A	--	N/A	N/A
			Dibenz(a,h)anthracene	2E-06	--	2E-06	--	3E-06	N/A	N/A	--	N/A	N/A
			Indeno(1,2,3-cd)pyrene	9E-06	--	8E-06	--	2E-06	N/A	N/A	--	N/A	N/A
			Phenanthrene	N/A	--	N/A	--	N/A	General Toxicity	1E-05	--	8E-06	2E-05
			Aroclor 1260	3E-06	--	3E-06	--	6E-06	Immune System	7E-04	--	5E-04	1E-03
			Antimony	N/A	--	--	--	N/A	Blood	4E-01	--	--	4E-01
			Arsenic	3E-06	--	1E-06	--	5E-06	Skin	6E-02	--	2E-02	8E-02
			Barium	N/A	--	--	--	N/A	Cardiovascular	3E-04	--	--	3E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	7E-04	--	2E-03	2E-03
			Chromium III	N/A	--	--	--	N/A	General Toxicity	2E-05	--	--	2E-05
			Copper	N/A	--	--	--	N/A	Kidney	5E-04	--	--	5E-04
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	8E-04	--	--	8E-04
			Mercury	N/A	--	--	--	N/A	Nervous System	2E-03	--	--	2E-03
			Nickel	N/A	--	--	--	N/A	General Toxicity	3E-04	--	--	3E-04
			Vanadium	N/A	--	--	--	N/A	Kidney	2E-02	--	--	2E-02
			Zinc	N/A	--	--	--	N/A	Blood	2E-04	--	--	2E-04
			Chemical Total	4E-06	--	1E-06	--	5E-06		5E-01	--	2E-02	5E-01
			Radionuclide Total										
		Exposure Point Total						5E-06					5E-01
	Exposure Medium Total							5E-06					5E-01
Medium Total								5E-06					5E-01
Receptor Total								5E-06					5E-01

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 5E-06

Total Hazard Across All Media: 5E-01

Using the MADEP slope factor for PCE, the risk for this receptor would change to: 5E-06
Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 5E-06
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 5E-06
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 5E-06

Total Skin HI =	8E-02
Total Nervous System HI =	6E-03
Total Immune System HI =	2E-03
Total Kidney HI =	2E-02
Total Blood HI =	4E-01
Total General Toxicity HI =	3E-04
Total Liver HI =	1E-03
Total Gastrointestinal System HI =	2E-02
Total Cardiovascular HI =	3E-04
Total Developmental HI =	N/A

TABLE 3-9.3 CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult: Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Non-Carcinogenic Hazard Quotient Young Child: Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 22/TT-22 (Reach 1)	Heptachlor epoxide	--	--	8E-10	--	8E-10	Liver	--	--	9E-05	9E-05
			Arsenic	--	--	3E-08	--	3E-08	Skin	--	--	1E-03	1E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	1E-04	1E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	1E-02	1E-02
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	1E-03	1E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	2E-04	2E-04
			Chemical Total	--	--	3E-08	--	3E-08		--	--	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						3E-08					1E-02
	Exposure Medium Total							3E-08					1E-02
Medium Total								3E-08					1E-02
Sediment	Sediment	Station 22/TT-22	Tetrachloroethene	1E-08	--	--	--	1E-08	Liver	7E-05	--	--	7E-05
			Trichloroethene	3E-09	--	--	--	3E-09	Liver	6E-04	--	--	6E-04
			Benzo(a)anthracene	2E-09	--	3E-09	--	5E-09	N/A	N/A	--	N/A	N/A
			Benzo(a)pyrene	1E-08	--	2E-08	--	4E-08	N/A	N/A	--	N/A	N/A
			Benzo(b)fluoranthene	3E-09	--	4E-09	--	7E-09	N/A	N/A	--	N/A	N/A
			Benzo(k)fluoranthene	3E-10	--	6E-10	--	8E-10	N/A	N/A	--	N/A	N/A
			Dibenz(a,h)anthracene	3E-09	--	5E-09	--	8E-09	N/A	N/A	--	N/A	N/A
			Indeno(1,2,3-cd)pyrene	1E-09	--	2E-09	--	4E-09	N/A	N/A	--	N/A	N/A
			Phenanthrene	N/A	--	N/A	--	N/A	General Toxicity	5E-06	--	7E-06	1E-05
			Aroclor 1260	3E-10	--	5E-10	--	7E-10	Immune System	3E-04	--	5E-04	9E-04
			Antimony	N/A	--	--	--	N/A	Blood	4E-02	--	--	4E-02
			Arsenic	6E-07	--	4E-07	--	1E-06	Skin	3E-02	--	2E-02	5E-02
			Barium	N/A	--	--	--	N/A	Cardiovascular	2E-04	--	--	2E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	3E-04	--	2E-03	2E-03
			Chromium III	N/A	--	--	--	N/A	General Toxicity	1E-05	--	--	1E-05
			Copper	N/A	--	--	--	N/A	Kidney	2E-04	--	--	2E-04
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	4E-04	--	--	4E-04
			Mercury	N/A	--	--	--	N/A	Nervous System	1E-03	--	--	1E-03
			Nickel	N/A	--	--	--	N/A	General Toxicity	1E-04	--	--	1E-04
			Vanadium	N/A	--	--	--	N/A	Kidney	1E-02	--	--	1E-02
			Zinc	N/A	--	--	--	N/A	Blood	8E-05	--	--	8E-05
			Chemical Total	6E-07	--	4E-07	--	1E-06		8E-02	--	2E-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
Using the MADEP slope factor for PCE, the risk for this receptor would change to	1E-06
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 Hazard Across All Media	1E-01
Total Skin HI =	5E-02
Total Nervous System HI =	3E-03
Total Immune System HI =	1E-03
Total Kidney HI =	1E-02
Total Blood HI =	4E-02
Total General Toxicity HI =	2E-04
Total Liver HI =	7E-04
Total Gastrointestinal System HI =	1E-02
Total Cardiovascular HI =	2E-04
Total Developmental HI =	N/A

TABLE 3-8.4.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult: Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Non-Carcinogenic Hazard Quotient Young Child: Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station WH (Reach 1)	Heptachlor epoxide	--	--	4E-09	--	4E-09	Liver	--	--	1E-04	1E-04
			Arsenic	--	--	2E-07	--	2E-07	Skin	--	--	2E-03	2E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	1E-03	1E-03
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	2E-02	2E-02
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	3E-03	3E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	4E-04	4E-04
			Chemical Total	--	--	2E-07	--	2E-07		--	--	3E-02	3E-02
			Radionuclide Total										
		Exposure Point Total						2E-07					3E-02
	Exposure Medium Total							2E-07					3E-02
Medium Total								2E-07					3E-02
Sediment	Sediment	Station WH	Trichloroethene	1E-09	--	--	--	1E-09	Liver	8E-05	--	--	8E-05
			Benzo(a)anthracene	2E-08	--	2E-08	--	4E-08	N/A	N/A	--	N/A	N/A
			Benzo(a)pyrene	4E-07	--	3E-07	--	8E-07	N/A	N/A	--	N/A	N/A
			Benzo(b)fluoranthene	6E-08	--	6E-08	--	1E-07	N/A	N/A	--	N/A	N/A
			Benzo(k)fluoranthene	3E-08	--	3E-08	--	6E-08	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	3E-08	--	3E-08	--	6E-08	N/A	N/A	--	N/A	N/A
			Phenanthrene	N/A	--	N/A	--	N/A	General Toxicity	1E-05	--	1E-05	2E-05
			Aroclor 1260	7E-09	--	6E-09	--	1E-08	Immune System	1E-03	--	1E-03	2E-03
			Antimony	N/A	--	--	--	N/A	Blood	4E-02	--	--	4E-02
			Arsenic	9E-05	--	3E-05	--	1E-04	Skin	2E+00	--	5E-01	2E+00
			Barium	N/A	--	--	--	N/A	Cardiovascular	6E-04	--	--	6E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	6E-03	--	1E-02	2E-02
			Chromium III	N/A	--	--	--	N/A	General Toxicity	4E-04	--	--	4E-04
			Copper	N/A	--	--	--	N/A	Kidney	2E-02	--	--	2E-02
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	3E-03	--	--	3E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	1E-01	--	--	1E-01
			Nickel	N/A	--	--	--	N/A	General Toxicity	1E-03	--	--	1E-03
			Thallium	N/A	--	--	--	N/A	Blood	5E-03	--	--	5E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	5E-02	--	--	5E-02
			Zinc	N/A	--	--	--	N/A	Blood	4E-03	--	--	4E-03
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	2E-04	--	--	2E-04
			Chemical Total	9E-05	--	3E-05	--	1E-04		2E+00	--	5E-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

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 1E-04
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 1E-04
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 1E-04

Total Hazard Across All Media: 2E+00

Total Skin HI =	2E+00
Total Nervous System HI =	1E-01
Total Immune System HI =	3E-03
Total Kidney HI =	8E-02
Total Blood HI =	5E-02
Total General Toxicity HI =	1E-03
Total Liver HI =	2E-04
Total Gastrointestinal System HI =	2E-02
Total Cardiovascular HI =	6E-04
Total Developmental HI =	N/A

TABLE 3-9.4.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult: Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Non-Carcinogenic Hazard Quotient Young Child: Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station WH (Reach 1)	Heptachlor epoxide	--	--	8E-10	--	8E-10	Liver	--	--	9E-05	9E-05
			Arsenic	--	--	3E-08	--	3E-08	Skin	--	--	1E-03	1E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	1E-04	1E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	1E-02	1E-02
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	1E-03	1E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	2E-04	2E-04
			Chemical Total	--	--	3E-08	--	3E-08		--	--	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						3E-08					1E-02
	Exposure Medium Total							3E-08					1E-02
Medium Total								3E-08					1E-02
Sediment	Sediment	Station WH	Trichloroethene	2E-10	--	--	--	2E-10	Liver	4E-05	--	--	4E-05
			Benzo(a)anthracene	3E-09	--	9E-09	--	8E-09	N/A	N/A	--	N/A	N/A
			Benzo(a)pyrene	7E-08	--	1E-07	--	2E-07	N/A	N/A	--	N/A	N/A
			Benzo(b)fluoranthene	6E-09	--	1E-08	--	2E-08	N/A	N/A	--	N/A	N/A
			Benzo(k)fluoranthene	5E-10	--	8E-10	--	1E-09	N/A	N/A	--	N/A	N/A
			Dibenz(a,h)anthracene	2E-08	--	3E-08	--	6E-08	N/A	N/A	--	N/A	N/A
			Indeno(1,2,3-cd)pyrene	4E-09	--	6E-09	--	9E-09	N/A	N/A	--	N/A	N/A
			Phenanthrene	N/A	--	N/A	--	N/A	General Toxicity	5E-06	--	8E-06	1E-05
			Aroclor 1260	4E-10	--	7E-10	--	1E-09	Immune System	5E-04	--	8E-04	1E-03
			Antimony	N/A	--	--	--	N/A	Blood	2E-02	--	--	2E-02
			Arsenic	1E-05	--	1E-05	--	2E-05	Skin	6E-01	--	5E-01	1E+00
			Barium	N/A	--	--	--	N/A	Cardiovascular	3E-04	--	--	3E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	3E-03	--	1E-02	1E-02
			Chromium III	N/A	--	--	--	N/A	General Toxicity	2E-04	--	--	2E-04
			Copper	N/A	--	--	--	N/A	Kidney	9E-03	--	--	9E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	2E-03	--	--	2E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	7E-02	--	--	7E-02
			Nickel	N/A	--	--	--	N/A	General Toxicity	5E-04	--	--	5E-04
			Thallium	N/A	--	--	--	N/A	Blood	2E-03	--	--	2E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	2E-02	--	--	2E-02
			Zinc	N/A	--	--	--	N/A	Blood	2E-03	--	--	2E-03
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	1E-04	--	--	1E-04
			Chemical Total	1E-05	--	1E-06	--	2E-05		8E-01	--	5E-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

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 Skin HI =	1E+00
Total Nervous System HI =	7E-02
Total Immune System HI =	1E-03
Total Kidney HI =	5E-02
Total Blood HI =	2E-02
Total General Toxicity HI =	7E-04
Total Liver HI =	1E-04
Total Gastrointestinal System HI =	1E-02
Total Cardiovascular HI =	3E-04
Total Developmental HI =	N/A

TABLE 3-8.5.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult: Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Non-Carcinogenic Hazard Quotient Young Child: Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station WG (Reach 1)	Heptachlor epoxide	--	--	4E-09	--	4E-09	Liver	--	--	1E-04	1E-04
			Arsenic	--	--	2E-07	--	2E-07	Skin	--	--	2E-03	2E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	1E-03	1E-03
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	2E-02	2E-02
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	3E-03	3E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	4E-04	4E-04
			Chemical Total	--	--	2E-07	--	2E-07		--	--	3E-02	3E-02
			Radionuclide Total										
		Exposure Point Total						2E-07					3E-02
	Exposure Medium Total							2E-07					3E-02
Medium Total								2E-07					3E-02
Sediment	Sediment	Station WG	Trichloroethene	1E-09	--	--	--	1E-09	Liver	7E-05	--	--	7E-05
			Benzo(a)anthracene	8E-09	--	5E-09	--	1E-08	N/A	N/A	--	N/A	N/A
			Benzo(a)pyrene	7E-08	--	9E-08	--	1E-07	N/A	N/A	--	N/A	N/A
			Benzo(b)fluoranthene	1E-08	--	1E-08	--	2E-08	N/A	N/A	--	N/A	N/A
			Benzo(k)fluoranthene	8E-10	--	7E-10	--	2E-09	N/A	N/A	--	N/A	N/A
			Dibenz(a,h)anthracene	2E-08	--	2E-08	--	4E-08	N/A	N/A	--	N/A	N/A
			Indeno(1,2,3-cd)pyrene	6E-09	--	5E-09	--	1E-08	N/A	N/A	--	N/A	N/A
			Phenanthrene	N/A	--	N/A	--	N/A	General Toxicity	4E-06	--	3E-06	7E-06
			Aroclor 1260	1E-09	--	1E-09	--	2E-09	Immune System	3E-04	--	2E-04	5E-04
			Antimony	N/A	--	--	--	N/A	Blood	1E-02	--	--	1E-02
			Arsenic	1E-05	--	4E-06	--	2E-05	Skin	2E-01	--	7E-02	3E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	8E-04	--	--	8E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	3E-03	--	7E-03	1E-02
			Chromium III	N/A	--	--	--	N/A	General Toxicity	3E-04	--	--	3E-04
			Copper	N/A	--	--	--	N/A	Kidney	1E-02	--	--	1E-02
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	7E-03	--	--	7E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	1E-02	--	--	1E-02
			Nickel	N/A	--	--	--	N/A	General Toxicity	8E-04	--	--	8E-04
			Thallium	N/A	--	--	--	N/A	Blood	3E-03	--	--	3E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	3E-02	--	--	3E-02
			Zinc	N/A	--	--	--	N/A	Blood	2E-03	--	--	2E-03
			Chemical Total	1E-05	--	4E-06	--	2E-05		3E-01	--	8E-02	4E-01
			Radionuclide Total										
		Exposure Point Total						2E-05					4E-01
	Exposure Medium Total							2E-05					4E-01
Medium Total								2E-05					4E-01
Receptor Total								2E-05					4E-01

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-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: 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 Skin HI =	3E-01
Total Nervous System HI =	2E-02
Total Immune System HI =	9E-04
Total Kidney HI =	5E-02
Total Blood HI =	2E-02
Total General Toxicity HI =	1E-01
Total Liver HI =	2E-04
Total Gastrointestinal System HI =	2E-02
Total Cardiovascular HI =	6E-04
Total Developmental HI =	N/A

TABLE 3-9.5.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult: Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Non-Carcinogenic Hazard Quotient Young Child: Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station WG (Reach 1)	Heptachlor epoxide	--	--	8E-10	--	8E-10	Liver	--	--	9E-05	9E-05
			Arsenic	--	--	3E-08	--	3E-08	Skin	--	--	1E-03	1E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	1E-04	1E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	1E-02	1E-02
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	1E-03	1E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	2E-04	2E-04
			Chemical Total	--	--	3E-08	--	3E-08		--	--	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						3E-08					1E-02
	Exposure Medium Total							3E-08					1E-02
Medium Total								3E-08					1E-02
Sediment	Sediment	Station WG	Trichloroethene	2E-10	--	--	--	2E-10	Liver	3E-05	--	--	3E-05
			Benzo(a)anthracene	9E-10	--	1E-08	--	2E-08	N/A	N/A	--	N/A	N/A
			Benzo(a)pyrene	1E-08	--	2E-08	--	3E-08	N/A	N/A	--	N/A	N/A
			Benzo(b)fluoranthene	2E-09	--	3E-09	--	5E-09	N/A	N/A	--	N/A	N/A
			Benzo(k)fluoranthene	1E-10	--	2E-10	--	4E-10	N/A	N/A	--	N/A	N/A
			Dibenz(a,h)anthracene	3E-09	--	5E-09	--	8E-09	N/A	N/A	--	N/A	N/A
			Indeno(1,2,3-cd)pyrene	1E-09	--	2E-09	--	3E-09	N/A	N/A	--	N/A	N/A
			Phenanthrene	N/A	--	N/A	--	N/A	General Toxicity	2E-06	--	3E-06	5E-06
			Aroclor 1260	1E-10	--	2E-10	--	3E-10	Immune System	1E-04	--	2E-04	3E-04
			Antimony	N/A	--	--	--	N/A	Blood	5E-03	--	--	5E-03
			Arsenic	2E-06	--	1E-06	--	3E-06	Skin	1E-01	--	7E-02	2E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	3E-04	--	--	3E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	2E-03	--	7E-03	8E-03
			Chromium III	N/A	--	--	--	N/A	General Toxicity	1E-04	--	--	1E-04
			Copper	N/A	--	--	--	N/A	Kidney	5E-03	--	--	5E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	3E-03	--	--	3E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	7E-03	--	--	7E-03
			Nickel	N/A	--	--	--	N/A	General Toxicity	4E-04	--	--	4E-04
			Thallium	N/A	--	--	--	N/A	Blood	1E-03	--	--	1E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	2E-02	--	--	2E-02
			Zinc	N/A	--	--	--	N/A	Blood	9E-04	--	--	9E-04
			Chemical Total	2E-06	--	1E-06	--	3E-06		1E-01	--	8E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						3E-06					2E-01
	Exposure Medium Total							3E-06					2E-01
Medium Total								3E-06					2E-01
Receptor Total								3E-06					2E-01

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-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: 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 Skin HI =	2E-01
Total Nervous System HI =	1E-02
Total Immune System HI =	5E-04
Total Kidney HI =	3E-02
Total Blood HI =	8E-03
Total General Toxicity HI =	6E-04
Total Liver HI =	1E-04
Total Gastrointestinal System HI =	1E-02
Total Cardiovascular HI =	3E-04
Total Developmental HI =	N/A

TABLE 3-9 6 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult: Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Non-Carcinogenic Hazard Quotient Young Child: Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station WS/WSS (Reach 1)	Heptachlor epoxide	-	--	1E-06	--	1E-06	Liver	--	--	5E-04	5E-04
			Arsenic	-	--	9E-07	--	9E-07	Skin	--	--	8E-03	8E-03
			Cadmium	-	--	N/A	--	N/A	Kidney	--	--	5E-03	5E-03
			Chromium VI	-	--	N/A	--	N/A	Gastrointestinal System	--	--	8E-02	8E-02
			Lead										
			Manganese	-	--	N/A	--	N/A	Nervous System	--	--	1E-02	1E-02
			Mercury	-	--	N/A	--	N/A	Immune System	--	--	2E-03	2E-03
			Chemical Total	-	--	9E-07	--	9E-07		--	--	1E-01	1E-01
			Radionuclide Total										
		Exposure Point Total						9E-07					1E-01
	Exposure Medium Total							9E-07					1E-01
Medium Total								9E-07					1E-01
Sediment	Sediment	Station WS/WSS	Antimony	N/A	--	--	--	N/A	Blood	2E-02	--	--	2E-02
			Arsenic	4E-05	--	1E-05	--	6E-05	Skin	7E-01	--	2E-01	1E+00
			Barium	N/A	--	--	--	N/A	Cardiovascular	4E-03	--	--	4E-03
			Cadmium	N/A	--	N/A	--	N/A	Kidney	2E-02	--	5E-02	7E-02
			Chromium III	N/A	--	--	--	N/A	General Toxicity	9E-04	--	--	9E-04
			Copper	N/A	--	--	--	N/A	Kidney	3E-02	--	--	3E-02
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	3E-02	--	--	3E-02
			Mercury	N/A	--	--	--	N/A	Nervous System	3E-02	--	--	3E-02
			Nickel	N/A	--	--	--	N/A	General Toxicity	3E-03	--	--	3E-03
			Thallium	N/A	--	--	--	N/A	Blood	3E-02	--	--	3E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	9E-02	--	--	9E-02
			Zinc	N/A	--	--	--	N/A	Blood	1E-02	--	--	1E-02
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	8E-04	--	--	8E-04
			Chemical Total	4E-05	--	1E-05	--	6E-05		1E+00	--	3E-01	1E+00
			Radionuclide Total										
		Exposure Point Total						6E-05					1E+00
	Exposure Medium Total							6E-05					1E+00
Medium Total								6E-05					1E+00
Soil	Surface Soil	Station WS/WSS	Arsenic	3E-06	--	7E-07	--	4E-06	Skin	8E-02	--	1E-02	7E-02
			Cadmium	N/A	--	N/A	--	N/A	Kidney	7E-04	--	2E-03	2E-03
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	1E-02	--	--	1E-02
			Copper	N/A	--	--	--	N/A	Kidney	2E-03	--	--	2E-03
			Manganese	N/A	--	--	--	N/A	Nervous System	5E-03	--	--	5E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	2E-03	--	--	2E-03
			Thallium	N/A	--	--	--	N/A	Blood	3E-02	--	--	3E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	5E-02	--	--	5E-02
			Zinc	N/A	--	--	--	N/A	Blood	5E-04	--	--	5E-04
			Chemical Total	3E-06	--	7E-07	--	4E-06		2E-01	--	1E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						4E-06					2E-01
	Exposure Medium Total							4E-06					2E-01
Medium Total								4E-06					2E-01
Receptor Total								6E-05					2E+00

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 6E-05

Total Hazard Across All Media: 2E+00

Total Skin HI =	1E+00
Total Nervous System HI =	8E-02
Total Immune System HI =	2E-03
Total Kidney HI =	2E-01
Total Blood HI =	9E-02
Total General Toxicity HI =	4E-03
Total Liver HI =	5E-04
Total Gastrointestinal System HI =	1E-01
Total Cardiovascular HI =	4E-03
Total Developmental HI =	N/A

TABLE 3-9 6 CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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
Surface Water	Surface Water	Station WS/WSS (Reach 1)	Heptachlor epoxide	–	- -	2E-09	- -	2E-09	Liver	- -	- -	3E-04	3E-04
			Arsenic	–	- -	1E-07	- -	1E-07	Skin	- -	- -	3E-03	3E-03
			Cadmium	–	- -	N/A	- -	N/A	Kidney	- -	- -	3E-04	3E-04
			Chromium VI	–	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	3E-02	3E-02
			Lead										
			Manganese	–	- -	N/A	- -	N/A	Nervous System	- -	- -	4E-03	4E-03
			Mercury	–	- -	N/A	- -	N/A	Immune System	- -	- -	6E-04	6E-04
			Chemical Total	–	- -	1E-07	- -	1E-07		- -	- -	4E-02	4E-02
			Radionuclide Total										
		Exposure Point Total						1E-07					4E-02
	Exposure Medium Total							1E-07					4E-02
Medium Total								1E-07					4E-02
Sediment	Sediment	Station WS/WSS	Antimony	N/A	- -	- -	- -	N/A	Blood	9E-03	- -	- -	9E-03
			Arsenic	5E-06	- -	4E-06	- -	8E-06	Skin	3E-01	- -	2E-01	5E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	1E-03	- -	- -	1E-03
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	8E-03	- -	3E-02	4E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	3E-04	- -	- -	3E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	1E-02	- -	- -	1E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	1E-02	- -	- -	1E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	1E-02	- -	- -	1E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	1E-03	- -	- -	1E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	1E-02	- -	- -	1E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	3E-02	- -	- -	3E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	9E-03	- -	- -	9E-03
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	2E-04	- -	- -	2E-04
			Chemical Total	5E-06	- -	4E-06	- -	8E-06		4E-01	- -	2E-01	6E-01
			Radionuclide Total										
		Exposure Point Total						8E-06					6E-01
	Exposure Medium Total							8E-06					6E-01
Medium Total								8E-06					6E-01
Soil	Surface Soil	Station WS/WSS	Arsenic	2E-06	- -	2E-07	- -	2E-06	Skin	5E-02	- -	8E-03	6E-02
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	3E-04	- -	6E-04	9E-04
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	9E-03	- -	- -	9E-03
			Copper	N/A	- -	- -	- -	N/A	Kidney	1E-03	- -	- -	1E-03
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	4E-03	- -	- -	4E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-03	- -	- -	2E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	2E-02	- -	- -	2E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	3E-02	- -	- -	3E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	3E-04	- -	- -	3E-04
			Chemical Total	2E-06	- -	2E-07	- -	2E-06		1E-01	- -	9E-03	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								1E-05					8E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-05

Total Hazard Across All Media: 8E-01

Total Skin HI =	5E-01
Total Nervous System HI =	3E-02
Total Immune System HI =	6E-04
Total Kidney HI =	1E-01
Total Blood HI =	5E-02
Total General Toxicity HI =	2E-03
Total Liver HI =	3E-04
Total Gastrointestinal System HI =	4E-02
Total Cardiovascular HI =	1E-03
Total Developmental HI =	N/A

TABLE 3-9.7.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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
Surface Water	Surface Water	Station TT-30 (Upper Reach 2)	Trichloroethene	--	--	6E-08	--	6E-08	Liver	--	--	2E-03	2E-03
			Arsenic	--	--	9E-08	--	9E-08	Skin	--	--	9E-04	9E-04
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	1E-04	1E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	4E-03	4E-03
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	4E-03	4E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	9E-05	9E-05
			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	Station TT-30	Arsenic	5E-05	--	2E-05	--	7E-05	Skin	9E-01	--	3E-01	1E+00
			Barium	N/A	--	--	--	N/A	Cardiovascular	2E-04	--	--	2E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	3E-03	--	8E-03	1E-02
			Chromium III	N/A	--	--	--	N/A	General Toxicity	2E-03	--	--	2E-03
			Copper	N/A	--	--	--	N/A	Kidney	6E-02	--	--	6E-02
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	1E-03	--	--	1E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	4E-01	--	--	4E-01
			Nickel	N/A	--	--	--	N/A	General Toxicity	2E-04	--	--	2E-04
			Thallium	N/A	--	--	--	N/A	Blood	9E-03	--	--	9E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	1E-02	--	--	1E-02
			Zinc	N/A	--	--	--	N/A	Blood	2E-03	--	--	2E-03
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	1E-03	--	--	1E-03
			Chemical Total	5E-05	--	2E-05	--	7E-05		1E+00	--	3E-01	2E+00
			Radionuclide Total										
		Exposure Point Total						7E-05					2E+00
	Exposure Medium Total							7E-05					2E+00
Medium Total								7E-05					2E+00
Receptor Total								7E-05					2E+00

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 7E-05

Total Hazard Across All Media: 2E+00

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 Skin HI =	1E+00
Total Nervous System HI =	4E-01
Total Immune System HI =	9E-05
Total Kidney HI =	8E-02
Total Blood HI =	1E-02
Total General Toxicity HI =	2E-03
Total Liver HI =	2E-03
Total Gastrointestinal System HI =	5E-03
Total Cardiovascular HI =	2E-04
Total Developmental HI =	N/A

TABLE 3-9.7.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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
Surface Water	Surface Water	Station TT-30 (Upper Reach 2)	Trichloroethene	--	--	1E-08	--	1E-08	Liver	--	--	2E-03	2E-03
			Arsenic	--	--	1E-08	--	1E-08	Skin	--	--	3E-04	3E-04
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	6E-05	6E-05
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	1E-03	1E-03
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	2E-03	2E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	4E-05	4E-05
			Chemical Total	--	--	3E-08	--	3E-08		--	--	5E-03	5E-03
			Radionuclide Total										
		Exposure Point Total						3E-08					5E-03
	Exposure Medium Total							3E-08					5E-03
Medium Total								3E-08					5E-03
Sediment	Sediment	Station TT-30	Arsenic	8E-06	--	8E-06	--	1E-05	Skin	4E-01	--	3E-01	7E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	1E-04	--	--	1E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	2E-03	--	8E-03	9E-03
			Chromium III	N/A	--	--	--	N/A	General Toxicity	8E-04	--	--	8E-04
			Copper	N/A	--	--	--	N/A	Kidney	3E-02	--	--	3E-02
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	7E-04	--	--	7E-04
			Mercury	N/A	--	--	--	N/A	Nervous System	2E-01	--	--	2E-01
			Nickel	N/A	--	--	--	N/A	General Toxicity	9E-05	--	--	9E-05
			Thallium	N/A	--	--	--	N/A	Blood	4E-03	--	--	4E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	5E-03	--	--	5E-03
			Zinc	N/A	--	--	--	N/A	Blood	9E-04	--	--	9E-04
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	5E-04	--	--	5E-04
			Chemical Total	8E-06	--	8E-06	--	1E-05		7E-01	--	3E-01	1E+00
			Radionuclide Total										
		Exposure Point Total						1E-05					1E+00
	Exposure Medium Total							1E-05					1E+00
Medium Total								1E-05					1E+00
Receptor Total								1E-05					1E+00

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-05

Total Hazard Across All Media: 1E+00

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 Skin HI =	7E-01
Total Nervous System HI =	2E-01
Total Immune System HI =	4E-05
Total Kidney HI =	4E-02
Total Blood HI =	5E-03
Total General Toxicity HI =	9E-04
Total Liver HI =	2E-03
Total Gastrointestinal System HI =	2E-03
Total Cardiovascular HI =	1E-04
Total Developmental HI =	N/A

TABLE 3-9.8 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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
Surface Water	Surface Water	Station CB-01 (Upper Reach 2)	Trichloroethene	--	--	3E-07	--	3E-07	Liver	--	--	9E-03	9E-03
			Arsenic	--	--	4E-07	--	4E-07	Skin	--	--	4E-03	4E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	5E-04	5E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	2E-02	2E-02
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	1E-02	1E-02
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	4E-04	4E-04
			Chemical Total	--	--	6E-07	--	6E-07		--	--	5E-02	5E-02
			Radionuclide Total										
		Exposure Point Total						6E-07					5E-02
	Exposure Medium Total							6E-07					5E-02
Medium Total								6E-07					5E-02
Sediment	Sediment	Station CB-01	Antimony	N/A	--	--	--	N/A	Blood	1E-02	--	--	1E-02
			Arsenic	1E-05	--	4E-06	--	1E-05	Skin	2E-01	--	6E-02	2E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	2E-03	--	--	2E-03
			Cadmium	N/A	--	N/A	--	N/A	Kidney	2E-02	--	4E-02	6E-02
			Chromium III	N/A	--	--	--	N/A	General Toxicity	4E-04	--	--	4E-04
			Copper	N/A	--	--	--	N/A	Kidney	5E-02	--	--	5E-02
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	2E-02	--	--	2E-02
			Mercury	N/A	--	--	--	N/A	Nervous System	6E-02	--	--	6E-02
			Nickel	N/A	--	--	--	N/A	General Toxicity	2E-03	--	--	2E-03
			Thallium	N/A	--	--	--	N/A	Blood	6E-02	--	--	6E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	2E-01	--	--	2E-01
			Zinc	N/A	--	--	--	N/A	Blood	4E-03	--	--	4E-03
			Chemical Total	1E-05	--	4E-06	--	1E-05		6E-01	--	1E-01	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

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 Skin HI =	3E-01
Total Nervous System HI =	9E-02
Total Immune System HI =	4E-04
Total Kidney HI =	3E-01
Total Blood HI =	7E-02
Total General Toxicity HI =	2E-03
Total Liver HI =	9E-03
Total Gastrointestinal System HI =	2E-02
Total Cardiovascular HI =	2E-03
Total Developmental HI =	N/A

TABLE 3-9.8.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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
Surface Water	Surface Water	Station CB-01 (Upper Reach 2)	Trichloroethene	--	--	4E-06	--	4E-06	Liver	--	--	5E-03	5E-03
			Arsenic	--	--	3E-06	--	3E-06	Skin	--	--	1E-03	1E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	2E-04	2E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	4E-03	4E-03
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	5E-03	5E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	1E-04	1E-04
			Chemical Total	--	--	8E-06	--	8E-06		--	--	2E-02	2E-02
			Radionuclide Total										
		Exposure Point Total						8E-06					2E-02
	Exposure Medium Total							8E-06					2E-02
Medium Total								8E-06					2E-02
Sediment	Sediment	Station CB-01	Antimony	N/A	--	--	--	N/A	Blood	4E-03	--	--	4E-03
			Arsenic	1E-06	--	9E-07	--	2E-06	Skin	7E-02	--	5E-02	1E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	6E-04	--	--	6E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	7E-03	--	3E-02	4E-02
			Chromium III	N/A	--	--	--	N/A	General Toxicity	2E-04	--	--	2E-04
			Copper	N/A	--	--	--	N/A	Kidney	2E-02	--	--	2E-02
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	7E-03	--	--	7E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	2E-02	--	--	2E-02
			Nickel	N/A	--	--	--	N/A	General Toxicity	7E-04	--	--	7E-04
			Thallium	N/A	--	--	--	N/A	Blood	2E-02	--	--	2E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	6E-02	--	--	6E-02
			Zinc	N/A	--	--	--	N/A	Blood	2E-03	--	--	2E-03
			Chemical Total	1E-06	--	9E-07	--	2E-06		2E-01	--	8E-02	3E-01
			Radionuclide Total										
		Exposure Point Total						2E-06					3E-01
	Exposure Medium Total							2E-06					3E-01
Medium Total								2E-06					3E-01
Receptor Total								2E-06					3E-01

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-06

Total Hazard Across All Media: 3E-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 Skin HI =	1E-01
Total Nervous System HI =	3E-02
Total Immune System HI =	1E-04
Total Kidney HI =	1E-01
Total Blood HI =	3E-02
Total General Toxicity HI =	9E-04
Total Liver HI =	5E-03
Total Gastrointestinal System HI =	4E-03
Total Cardiovascular HI =	6E-04
Total Developmental HI =	N/A

TABLE 3-9 9 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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
Surface Water	Surface Water	Station CB-02 (Upper Reach 2)	Trichloroethene	--	--	3E-07	--	3E-07	Liver	--	--	9E-03	9E-03
			Arsenic	--	--	4E-07	--	4E-07	Skin	--	--	4E-03	4E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	5E-04	5E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	2E-02	2E-02
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	1E-02	1E-02
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	4E-04	4E-04
			Chemical Total	--	--	6E-07	--	6E-07		--	--	5E-02	5E-02
			Radionuclide Total										
		Exposure Point Total						6E-07					5E-02
	Exposure Medium Total							6E-07					5E-02
Medium Total								6E-07					5E-02
Sediment	Sediment	Station CB-02											
			Antimony	N/A	--	--	--	N/A	Blood	9E-03	--	--	9E-03
			Arsenic	7E-06	--	3E-06	--	1E-05	Skin	1E-01	--	4E-02	2E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	5E-03	--	--	5E-03
			Cadmium	N/A	--	N/A	--	N/A	Kidney	7E-03	--	2E-02	2E-02
			Chromium III	N/A	--	--	--	N/A	General Toxicity	2E-04	--	--	2E-04
			Copper	N/A	--	--	--	N/A	Kidney	6E-03	--	--	6E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	2E-03	--	--	2E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	6E-03	--	--	6E-03
			Nickel	N/A	--	--	--	N/A	General Toxicity	9E-04	--	--	9E-04
			Vanadium	N/A	--	--	--	N/A	Kidney	6E-02	--	--	6E-02
			Zinc	N/A	--	--	--	N/A	Blood	2E-03	--	--	2E-03
			Chemical Total	7E-06	--	3E-06	--	1E-05		2E-01	--	6E-02	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

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 Skin HI =	2E-01
Total Nervous System HI =	2E-02
Total Immune System HI =	4E-04
Total Kidney HI =	9E-02
Total Blood HI =	1E-02
Total General Toxicity HI =	1E-03
Total Liver HI =	9E-03
Total Gastrointestinal System HI =	2E-02
Total Cardiovascular HI =	5E-03
Total Developmental HI =	N/A

TABLE 3-9 9 CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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
Surface Water	Surface Water	Station CB-02 (Upper Reach 2)	Trichloroethene	--	--	4E-06	--	4E-06	Liver	--	--	5E-03	5E-03
			Arsenic	--	--	3E-06	--	3E-06	Skin	--	--	1E-03	1E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	2E-04	2E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	4E-03	4E-03
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	5E-03	5E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	1E-04	1E-04
			Chemical Total	--	--	8E-06	--	8E-06		--	--	2E-02	2E-02
			Radionuclide Total										
		Exposure Point Total						8E-06					2E-02
	Exposure Medium Total							8E-06					2E-02
Medium Total								8E-06					2E-02
Sediment	Sediment	Station CB-02	Antimony	N/A	--	--	--	N/A	Blood	3E-03	--	--	3E-03
			Arsenic	9E-07	--	7E-07	--	2E-06	Skin	5E-02	--	3E-02	8E-02
			Barium	N/A	--	--	--	N/A	Cardiovascular	2E-03	--	--	2E-03
			Cadmium	N/A	--	N/A	--	N/A	Kidney	3E-03	--	1E-02	1E-02
			Chromium III	N/A	--	--	--	N/A	General Toxicity	7E-05	--	--	7E-05
			Copper	N/A	--	--	--	N/A	Kidney	2E-03	--	--	2E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	7E-04	--	--	7E-04
			Mercury	N/A	--	--	--	N/A	Nervous System	2E-03	--	--	2E-03
			Nickel	N/A	--	--	--	N/A	General Toxicity	4E-04	--	--	4E-04
			Vanadium	N/A	--	--	--	N/A	Kidney	2E-02	--	--	2E-02
			Zinc	N/A	--	--	--	N/A	Blood	7E-04	--	--	7E-04
			Chemical Total	9E-07	--	7E-07	--	2E-06		9E-02	--	5E-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

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 Skin HI = 8E-02
Total Nervous System HI = 8E-03
Total Immune System HI = 1E-04
Total Kidney HI = 4E-02
Total Blood HI = 4E-03
Total General Toxicity HI = 4E-04
[illegible] HI = 5E-03
Total Gastrointes[illegible] HI = 4E-03
Total Cardiovascular HI = 2E-03
Total Developmental HI = N/A

TABLE 3-9.10.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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
Surface Water	Surface Water	Station CB-03 (Upper Reach 2)	Trichloroethene	--	--	3E-07	--	3E-07	Liver	--	--	9E-03	9E-03
			Arsenic	--	--	4E-07	--	4E-07	Skin	--	--	4E-03	4E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	5E-04	5E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	2E-02	2E-02
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	1E-02	1E-02
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	4E-04	4E-04
			Chemical Total	--	--	6E-07	--	6E-07		--	--	5E-02	5E-02
			Radionuclide Total										
		Exposure Point Total						6E-07					5E-02
	Exposure Medium Total							6E-07					5E-02
Medium Total								6E-07					5E-02
Sediment	Sediment	Station CB-03											
			Antimony	N/A	--	--	--	N/A	Blood	2E-02	--	--	2E-02
			Arsenic	1E-04	--	4E-05	--	1E-04	Skin	2E+00	--	6E-01	3E+00
			Barium	N/A	--	--	--	N/A	Cardiovascular	2E-03	--	--	2E-03
			Cadmium	N/A	--	N/A	--	N/A	Kidney	2E-02	--	6E-02	8E-02
			Chromium III	N/A	--	--	--	N/A	General Toxicity	1E-03	--	--	1E-03
			Copper	N/A	--	--	--	N/A	Kidney	2E-02	--	--	2E-02
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	1E-02	--	--	1E-02
			Mercury	N/A	--	--	--	N/A	Nervous System	5E-02	--	--	5E-02
			Nickel	N/A	--	--	--	N/A	General Toxicity	4E-03	--	--	4E-03
			Thallium	N/A	--	--	--	N/A	Blood	2E-02	--	--	2E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	1E-01	--	--	1E-01
			Zinc	N/A	--	--	--	N/A	Blood	1E-02	--	--	1E-02
			Chemical Total	1E-04	--	4E-05	--	1E-04		2E+00	--	7E-01	3E+00
			Radionuclide Total										
		Exposure Point Total						1E-04					3E+00
	Exposure Medium Total							1E-04					3E+00
Medium Total								1E-04					3E+00
Receptor Total								1E-04					3E+00

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-04

Total Hazard Across All Media: 3E+00

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 1E-04
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 1E-04
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 1E-04

Total Skin HI =	3E+00
Total Nervous System HI =	7E-02
Total Immune System HI =	4E-04
Total Kidney HI =	2E-01
Total Blood HI =	6E-02
Total General Toxicity HI =	4E-03
Total Liver HI =	9E-03
Total Gastrointestinal System HI =	2E-02
Total Cardiovascular HI =	2E-03
Total Developmental HI =	N/A

TABLE 3-9.10.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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
Surface Water	Surface Water	Station CB-03 (Upper Reach 2)	Trichloroethene	--	--	4E-08	--	4E-08	Liver	--	--	5E-03	5E-03
			Arsenic	--	--	3E-08	--	3E-08	Skin	--	--	1E-03	1E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	2E-04	2E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	4E-03	4E-03
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	5E-03	5E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	1E-04	1E-04
			Chemical Total	--	--	8E-08	--	8E-08		--	--	2E-02	2E-02
			Radionuclide Total										
		Exposure Point Total						8E-08					2E-02
	Exposure Medium Total							8E-08					2E-02
Medium Total								8E-08					2E-02
Sediment	Sediment	Station CB-03	Antimony	N/A	--	--	--	N/A	Blood	3E-03	--	--	3E-03
			Arsenic	1E-05	--	9E-08	--	2E-05	Skin	7E-01	--	5E-01	1E+00
			Barium	N/A	--	--	--	N/A	Cardiovascular	7E-04	--	--	7E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	9E-03	--	4E-02	5E-02
			Chromium III	N/A	--	--	--	N/A	General Toxicity	2E-04	--	--	2E-04
			Copper	N/A	--	--	--	N/A	Kidney	9E-03	--	--	9E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	5E-03	--	--	5E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	2E-02	--	--	2E-02
			Nickel	N/A	--	--	--	N/A	General Toxicity	1E-03	--	--	1E-03
			Thallium	N/A	--	--	--	N/A	Blood	9E-03	--	--	9E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	4E-02	--	--	4E-02
			Zinc	N/A	--	--	--	N/A	Blood	5E-03	--	--	5E-03
			Chemical Total	1E-05	--	9E-08	--	2E-05		8E-01	--	5E-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

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

TABLE 3-9.11.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
Receptor Population: Racreational 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
Surface Water	Surface Water	Station CB-04 (Upper Reach 2)	Trichloroethene	--	--	3E-07	--	3E-07	Liver	--	--	9E-03	9E-03
			Arsenic	--	--	4E-07	--	4E-07	Skin	--	--	4E-03	4E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	5E-04	5E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	2E-02	2E-02
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	1E-02	1E-02
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	4E-04	4E-04
			Chemical Total	--	--	6E-07	--	6E-07		--	--	5E-02	5E-02
			Radionuclide Total										
		Exposure Point Total						6E-07					5E-02
	Exposure Medium Total							6E-07					5E-02
Medium Total								6E-07					5E-02
Sediment	Sediment	Station CB-04	Antimony	N/A	--	--	--	N/A	Blood	2E-02	--	--	2E-02
			Arsenic	3E-05	--	1E-05	--	4E-05	Skin	8E-01	--	2E-01	8E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	2E-03	--	--	2E-03
			Cadmium	N/A	--	N/A	--	N/A	Kidney	1E-02	--	2E-02	4E-02
			Chromium III	N/A	--	--	--	N/A	General Toxicity	3E-04	--	--	3E-04
			Copper	N/A	--	--	--	N/A	Kidney	2E-02	--	--	2E-02
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	4E-02	--	--	4E-02
			Mercury	N/A	--	--	--	N/A	Nervous System	2E-02	--	--	2E-02
			Nickel	N/A	--	--	--	N/A	General Toxicity	7E-03	--	--	7E-03
			Thallium	N/A	--	--	--	N/A	Blood	1E-01	--	--	1E-01
			Vanadium	N/A	--	--	--	N/A	Kidney	1E-01	--	--	1E-01
			Zinc	N/A	--	--	--	N/A	Blood	2E-02	--	--	2E-02
			Chemical Total	3E-05	--	1E-05	--	4E-05		1E+00	--	2E-01	1E+00
			Radionuclide Total										
		Exposure Point Total						4E-05					1E+00
	Exposure Medium Total							4E-05					1E+00
Medium Total								4E-05					1E+00
Receptor Total								5E-05					1E+00

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 5E-05

Total Hazard Across All Media: 1E+00

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 4E-05
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 4E-05
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 4E-05

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

TABLE 3-9.11 CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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
Surface Water	Surface Water	Station CB-04 (Upper Reach 2)	Trichloroethene	--	--	4E-06	--	4E-06	Liver	--	--	5E-03	5E-03
			Arsenic	--	--	3E-06	--	3E-06	Skin	--	--	1E-03	1E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	2E-04	2E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	4E-03	4E-03
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	5E-03	5E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	1E-04	1E-04
			Chemical Total	--	--	8E-06	--	8E-06		--	--	2E-02	2E-02
			Radionuclide Total										
		Exposure Point Total						8E-06					2E-02
	Exposure Medium Total							8E-06					2E-02
Medium Total								8E-06					2E-02
Sediment	Sediment	Station CB-04	Antimony	N/A	--	--	--	N/A	Blood	8E-03	--	--	8E-03
			Arsenic	4E-06	--	3E-06	--	7E-06	Skin	2E-01	--	1E-01	4E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	8E-04	--	--	8E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	4E-03	--	2E-02	2E-02
			Chromium III	N/A	--	--	--	N/A	General Toxicity	1E-04	--	--	1E-04
			Copper	N/A	--	--	--	N/A	Kidney	6E-03	--	--	6E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	1E-02	--	--	1E-02
			Mercury	N/A	--	--	--	N/A	Nervous System	9E-03	--	--	9E-03
			Nickel	N/A	--	--	--	N/A	General Toxicity	3E-03	--	--	3E-03
			Thallium	N/A	--	--	--	N/A	Blood	1E-02	--	--	1E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	5E-02	--	--	5E-02
			Zinc	N/A	--	--	--	N/A	Blood	7E-03	--	--	7E-03
			Chemical Total	4E-06	--	3E-06	--	7E-06		3E-01	--	2E-01	5E-01
			Radionuclide Total										
		Exposure Point Total						7E-06					5E-01
	Exposure Medium Total							7E-06					5E-01
Medium Total								7E-06					5E-01
Receptor Total								7E-06					5E-01

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 7E-06

Total Hazard Across All Media: 5E-01

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 Skin HI =	4E-01
Total Nervous System HI =	3E-02
Total Immune System HI =	1E-04
Total Kidney HI =	8E-02
Total Blood HI =	3E-02
Total General Toxicity HI =	3E-03
Total Liver HI =	5E-03
Total Gastrointestinal System HI =	4E-03
Total Cardiovascular HI =	8E-04
Total Developmental HI =	N/A

TABLE 3-9.12.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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
Soil	Surface Soil	Station CB-05											
			Arsenic	2E-05	--	4E-06	--	2E-05	Skin	4E-01	--	6E-02	4E-01
			Cadmium	N/A	--	N/A	--	N/A	Kidney	1E-03	--	3E-03	4E-03
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	9E-02	--	--	9E-02
			Copper	N/A	--	--	--	N/A	Kidney	3E-03	--	--	3E-03
			Manganese	N/A	--	--	--	N/A	Nervous System	6E-03	--	--	6E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	5E-03	--	--	5E-03
			Thallium	N/A	--	--	--	N/A	Blood	4E-02	--	--	4E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	5E-02	--	--	5E-02
			Zinc	N/A	--	--	--	N/A	Blood	1E-03	--	--	1E-03
			Chemical Total	2E-05	--	4E-06	--	2E-05		6E-01	--	7E-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 Skin HI =	4E-01
Total Nervous System HI =	1E-02
Total Immune System HI =	N/A
Total Kidney HI =	6E-02
Total Blood HI =	4E-02
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	9E-02
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.12.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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
Soil	Surface Soil	Station CB-05											
			Arsenic	1E-05	--	9E-07	--	1E-05	Skin	3E-01	--	5E-02	3E-01
			Cadmium	N/A	--	N/A	--	N/A	Kidney	1E-03	--	2E-03	3E-03
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	7E-02	--	--	7E-02
			Copper	N/A	--	--	--	N/A	Kidney	2E-03	--	--	2E-03
			Manganese	N/A	--	--	--	N/A	Nervous System	5E-03	--	--	5E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	4E-03	--	--	4E-03
			Thallium	N/A	--	--	--	N/A	Blood	3E-02	--	--	3E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	4E-02	--	--	4E-02
			Zinc	N/A	--	--	--	N/A	Blood	8E-04	--	--	8E-04
			Chemical Total	1E-05	--	9E-07	--	1E-05		4E-01	--	5E-02	5E-01
			Radionuclide Total										
		Exposure Point Total						1E-05					5E-01
	Exposure Medium Total							1E-05					5E-01
Medium Total								1E-05					5E-01
Receptor Total								1E-05					5E-01

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-05

Total Hazard Across All Media: 5E-01

Total Skin HI =	3E-01
Total Nervous System HI =	9E-03
Total Immune System HI =	N/A
Total Kidney HI =	4E-02
Total Blood HI =	3E-02
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	7E-02
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.13.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult: Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Non-Carcinogenic Hazard Quotient Young Child: Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station CB-06 (Upper Reach 2)	Trichloroethene	--	--	3E-07	--	3E-07	Liver	--	--	9E-03	9E-03
			Arsenic	--	--	4E-07	--	4E-07	Skin	--	--	4E-03	4E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	5E-04	5E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	2E-02	2E-02
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	1E-02	1E-02
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	4E-04	4E-04
			Chemical Total	--	--	6E-07	--	6E-07		--	--	5E-02	5E-02
			Radionuclide Total										
		Exposure Point Total						6E-07					5E-02
	Exposure Medium Total							6E-07					5E-02
Medium Total								6E-07					5E-02
Sediment	Sediment	Station CB-06	Antimony	N/A	--	--	--	N/A	Blood	2E-02	--	--	2E-02
			Arsenic	3E-05	--	9E-06	--	3E-05	Skin	5E-01	--	1E-01	6E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	1E-03	--	--	1E-03
			Cadmium	N/A	--	N/A	--	N/A	Kidney	3E-02	--	7E-02	1E-01
			Chromium III	N/A	--	--	--	N/A	General Toxicity	6E-04	--	--	6E-04
			Copper	N/A	--	--	--	N/A	Kidney	1E-02	--	--	1E-02
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	3E-03	--	--	3E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	6E-03	--	--	6E-03
			Nickel	N/A	--	--	--	N/A	General Toxicity	3E-03	--	--	3E-03
			Thallium	N/A	--	--	--	N/A	Blood	1E-01	--	--	1E-01
			Vanadium	N/A	--	--	--	N/A	Kidney	1E-01	--	--	1E-01
			Zinc	N/A	--	--	--	N/A	Blood	1E-02	--	--	1E-02
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	4E-04	--	--	4E-04
			Chemical Total	3E-05	--	9E-06	--	3E-05		8E-01	--	2E-01	1E+00
			Radionuclide Total										
		Exposure Point Total						3E-05					1E+00
	Exposure Medium Total							3E-05					1E+00
Medium Total								3E-05					1E+00
Receptor Total								3E-05					1E+00

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-05

Total Hazard Across All Media: 1E+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 Skin HI =	6E-01
Total Nervous System HI =	2E-02
Total Immune System HI =	4E-04
Total Kidney HI =	3E-01
Total Blood HI =	1E-01
Total General Toxicity HI =	3E-03
Total Liver HI =	9E-03
Total Gastrointestinal System HI =	2E-02
Total Cardiovascular HI =	1E-03
Total Developmental HI =	N/A

TABLE 3-9.13 CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult: Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Non-Carcinogenic Hazard Quotient Young Child: Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station CB-06 (Upper Reach 2)	Trichloroethene	--	--	4E-08	--	4E-08	Liver	--	--	5E-03	5E-03
			Arsenic	--	--	3E-08	--	3E-08	Skin	--	--	1E-03	1E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	2E-04	2E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	4E-03	4E-03
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	5E-03	5E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	1E-04	1E-04
			Chemical Total	--	--	8E-08	--	8E-08		--	--	2E-02	2E-02
			Radionuclide Total										
		Exposure Point Total						8E-08					2E-02
	Exposure Medium Total							8E-08					2E-02
Medium Total								8E-08					2E-02
Sediment	Sediment	Station CB-06	Antimony	N/A	--	--	--	N/A	Blood	8E-03	--	--	8E-03
			Arsenic	3E-06	--	2E-06	--	5E-06	Skin	2E-01	--	1E-01	3E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	5E-04	--	--	5E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	1E-02	--	5E-02	7E-02
			Chromium III	N/A	--	--	--	N/A	General Toxicity	2E-04	--	--	2E-04
			Copper	N/A	--	--	--	N/A	Kidney	6E-03	--	--	6E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	1E-03	--	--	1E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	2E-03	--	--	2E-03
			Nickel	N/A	--	--	--	N/A	General Toxicity	1E-03	--	--	1E-03
			Thallium	N/A	--	--	--	N/A	Blood	4E-02	--	--	4E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	5E-02	--	--	5E-02
			Zinc	N/A	--	--	--	N/A	Blood	5E-03	--	--	5E-03
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	2E-04	--	--	2E-04
			Chemical Total	3E-06	--	2E-06	--	5E-06		3E-01	--	2E-01	5E-01
			Radionuclide Total										
		Exposure Point Total						5E-06					5E-01
	Exposure Medium Total							5E-06					5E-01
Medium Total								5E-06					5E-01
Receptor Total								5E-06					5E-01

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 5E-06

Total Hazard Across All Media: 5E-01

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 5E-06
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 5E-06
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 5E-06

Total Skin HI =	3E-01
Total Nervous System HI =	6E-03
Total Immune System HI =	1E-04
Total Kidney HI =	1E-01
Total Blood HI =	5E-02
Total General Toxicity HI =	1E-03
Total Liver HI =	5E-03
Total Gastrointestinal System HI =	5E-03
Total Cardiovascular HI =	5E-04
Total Developmental HI =	N/A

TABLE 3-9.14.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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
Surface Water	Surface Water	Station CB-07 (Upper Reach 2)	Trichloroethene	--	--	6E-06	--	6E-06	Liver	--	--	2E-03	2E-03
			Arsenic	--	--	9E-08	--	9E-08	Skin	--	--	9E-04	9E-04
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	1E-04	1E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	4E-03	4E-03
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	4E-03	4E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	9E-05	9E-05
			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	Station CB-07	Arsenic	9E-06	--	3E-06	--	1E-05	Skin	2E-01	--	6E-02	2E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	4E-04	--	--	4E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	2E-03	--	5E-03	8E-03
			Chromium III	N/A	--	--	--	N/A	General Toxicity	2E-04	--	--	2E-04
			Copper	N/A	--	--	--	N/A	Kidney	7E-03	--	--	7E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	4E-03	--	--	4E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	6E-03	--	--	6E-03
			Nickel	N/A	--	--	--	N/A	General Toxicity	5E-04	--	--	5E-04
			Vanadium	N/A	--	--	--	N/A	Kidney	4E-02	--	--	4E-02
			Zinc	N/A	--	--	--	N/A	Blood	1E-03	--	--	1E-03
			Chemical Total	9E-06	--	3E-06	--	1E-05		2E-01	--	6E-02	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

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 Skin HI =	2E-01
Total Nervous System HI =	1E-02
Total Immune System HI =	9E-05
Total Kidney HI =	6E-02
Total Blood HI =	1E-03
Total General Toxicity HI =	7E-04
Total Liver HI =	2E-03
Total Gastrointestinal System HI =	4E-03
Total Cardiovascular HI =	4E-04
Total Developmental HI =	N/A

TABLE 3-9.14 CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult: Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Non-Carcinogenic Hazard Quotient Young Child: Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station CB-07 (Upper Reach 2)	Trichloroethene	--	--	1E-06	--	1E-06	Liver	--	--	2E-03	2E-03
			Arsenic	--	--	1E-06	--	1E-06	Skin	--	--	3E-04	3E-04
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	6E-05	6E-05
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	1E-03	1E-03
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	2E-03	2E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	4E-05	4E-05
			Chemical Total	--	--	3E-06	--	3E-06		--	--	5E-03	5E-03
			Radionuclide Total										
		Exposure Point Total						3E-06					5E-03
	Exposure Medium Total							3E-06					5E-03
Medium Total								3E-06					5E-03
Sediment	Sediment	Station CB-07	Arsenic	2E-06	--	1E-06	--	3E-06	Skin	9E-02	--	6E-02	1E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	2E-04	--	--	2E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	1E-03	--	5E-03	6E-03
			Chromium III	N/A	--	--	--	N/A	General Toxicity	1E-04	--	--	1E-04
			Copper	N/A	--	--	--	N/A	Kidney	1E-03	--	--	1E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	1E-03	--	--	1E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	3E-03	--	--	3E-03
			Nickel	N/A	--	--	--	N/A	General Toxicity	3E-04	--	--	3E-04
			Vanadium	N/A	--	--	--	N/A	Kidney	2E-02	--	--	2E-02
			Zinc	N/A	--	--	--	N/A	Blood	5E-04	--	--	5E-04
			Chemical Total	2E-06	--	1E-06	--	3E-06		1E-01	--	6E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						3E-06					2E-01
	Exposure Medium Total							3E-06					2E-01
Medium Total								3E-06					2E-01
Receptor Total								3E-06					2E-01

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-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: 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 Skin HI =	1E-01
Total Nervous System HI =	6E-03
Total Immune System HI =	4E-05
Total Kidney HI =	3E-02
Total Blood HI =	5E-04
Total General Toxicity HI =	4E-04
Total Liver HI =	2E-03
Total Gastrointestinal System HI =	1E-03
Total Cardiovascular HI =	2E-04
Total Developmental HI =	N/A

TABLE 3-9.15 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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
Surface Water	Surface Water	Station 16/TT-33 (Upper Reach 2)	Trichloroethene	--	--	2E-07	--	2E-07	Liver	--	--	7E-03	7E-03
			Arsenic	--	--	3E-07	--	3E-07	Skin	--	--	3E-03	3E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	4E-04	4E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	1E-02	1E-02
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	1E-02	1E-02
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	3E-04	3E-04
			Chemical Total	--	--	5E-07	--	5E-07		--	--	3E-02	3E-02
			Radionuclide Total										
		Exposure Point Total						5E-07					3E-02
	Exposure Medium Total							5E-07					3E-02
Medium Total								5E-07					3E-02
Sediment	Sediment	Station 16/TT-33	Benzo(a)anthracene	1E-08	--	1E-08	--	3E-08	N/A	N/A	--	N/A	N/A
			Benzo(a)pyrene	2E-07	--	1E-07	--	3E-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
			Benzo(k)fluoranthene	1E-09	--	1E-09	--	2E-09	N/A	N/A	--	N/A	N/A
			Indeno(1,2,3-cd)pyrene	6E-09	--	6E-09	--	1E-08	N/A	N/A	--	N/A	N/A
			Phenanthrene	N/A	--	N/A	--	N/A	General Toxicity	9E-06	--	7E-06	2E-05
			Antimony	N/A	--	--	--	N/A	Blood	2E-02	--	--	2E-02
			Arsenic	3E-05	--	1E-05	--	4E-05	Skin	6E-01	--	2E-01	8E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	1E-03	--	--	1E-03
			Cadmium	N/A	--	N/A	--	N/A	Kidney	8E-03	--	2E-02	3E-02
			Chromium III	N/A	--	--	--	N/A	General Toxicity	2E-03	--	--	2E-03
			Copper	N/A	--	--	--	N/A	Kidney	2E-02	--	--	2E-02
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	2E-02	--	--	2E-02
			Mercury	N/A	--	--	--	N/A	Nervous System	5E-02	--	--	5E-02
			Nickel	N/A	--	--	--	N/A	General Toxicity	1E-03	--	--	1E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	4E-02	--	--	4E-02
			Zinc	N/A	--	--	--	N/A	Blood	4E-03	--	--	4E-03
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	1E-03	--	--	1E-03
			Chemical Total	3E-05	--	1E-05	--	4E-05		7E-01	--	2E-01	9E-01
			Radionuclide Total										
		Exposure Point Total						4E-05					9E-01
	Exposure Medium Total							4E-05					9E-01
Medium Total								4E-05					9E-01
Receptor Total								4E-05					1E+00

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 4E-05

Total Hazard Across All Media: 1E+00

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 4E-05
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 4E-05
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 4E-05

Total Skin HI =	8E-01
Total Nervous System HI =	6E-02
Total Immune System HI =	3E-04
Total Kidney HI =	9E-02
Total Blood HI =	3E-02
Total General Toxicity HI =	3E-03
Total Liver HI =	7E-03
Total Gastrointestinal System HI =	1E-02
Total Cardiovascular HI =	1E-03
Total Developmental HI =	N/A

TABLE 3-8 15.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult: Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Non-Carcinogenic Hazard Quotient Young Child: Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 16/TT-33 (Upper Reach 2)	Trichloroethene	--	--	1E-06	--	1E-06	Liver	--	--	2E-03	2E-03
			Arsenic	--	--	1E-06	--	1E-06	Skin	--	--	3E-04	3E-04
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	6E-05	6E-05
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	1E-03	1E-03
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	2E-03	2E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	4E-05	4E-05
			Chemical Total	--	--	3E-06	--	3E-06		--	--	5E-03	5E-03
			Radionuclide Total										
		Exposure Point Total						3E-06					5E-03
	Exposure Medium Total							3E-06					5E-03
Medium Total								3E-06					5E-03
Sediment	Sediment	Station 16/TT-33	Benzo(a)anthracene	7E-10	--	1E-09	--	2E-09	N/A	N/A	--	N/A	N/A
			Benzo(a)pyrene	1E-08	--	2E-08	--	3E-08	N/A	N/A	--	N/A	N/A
			Benzo(b)fluoranthene	2E-09	--	3E-09	--	4E-09	N/A	N/A	--	N/A	N/A
			Benzo(k)fluoranthene	7E-11	--	1E-10	--	2E-10	N/A	N/A	--	N/A	N/A
			Indeno(1,2,3-cd)pyrene	4E-10	--	7E-10	--	1E-09	N/A	N/A	--	N/A	N/A
			Phenanthrene	N/A	--	N/A	--	N/A	General Toxicity	2E-06	--	2E-06	4E-06
			Antimony	N/A	--	--	--	N/A	Blood	3E-03	--	--	3E-03
			Arsenic	2E-06	--	1E-06	--	3E-06	Skin	1E-01	--	6E-02	2E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	2E-04	--	--	2E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	1E-03	--	6E-03	7E-03
			Chromium III	N/A	--	--	--	N/A	General Toxicity	9E-05	--	--	9E-05
			Copper	N/A	--	--	--	N/A	Kidney	3E-03	--	--	3E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	1E-03	--	--	1E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	8E-03	--	--	8E-03
			Nickel	N/A	--	--	--	N/A	General Toxicity	2E-04	--	--	2E-04
			Vanadium	N/A	--	--	--	N/A	Kidney	7E-03	--	--	7E-03
			Zinc	N/A	--	--	--	N/A	Blood	7E-04	--	--	7E-04
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	6E-05	--	--	6E-05
			Chemical Total	2E-06	--	1E-06	--	3E-06		1E-01	--	7E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						3E-06					2E-01
	Exposure Medium Total							3E-06					2E-01
Medium Total								3E-06					2E-01
Receptor Total								3E-06					2E-01

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-06

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 Hazard Across All Media: 2E-01

Total Skin HI =	2E-01
Total Nervous System HI =	1E-02
Total Immune System HI =	4E-05
Total Kidney HI =	2E-02
Total Blood HI =	4E-03
Total General Toxicity HI =	3E-04
Total Liver HI =	2E-03
Total Gastrointestinal System HI =	2E-03
Total Cardiovascular HI =	2E-04
Total Developmental HI =	N/A

TABLE 3-9.16.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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
Surface Water	Surface Water	Station 09 (Upper Reach 2)	Trichloroethene	--	--	2E-07	--	2E-07	Liver	--	--	7E-03	7E-03
			Arsenic	--	--	3E-07	--	3E-07	Skin	--	--	3E-03	3E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	4E-04	4E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	1E-02	1E-02
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	1E-02	1E-02
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	3E-04	3E-04
			Chemical Total	--	--	5E-07	--	5E-07		--	--	3E-02	3E-02
			Radionuclide Total										
		Exposure Point Total						5E-07					3E-02
	Exposure Medium Total							5E-07					3E-02
Medium Total								5E-07					3E-02
Sediment	Sediment	Station 09											
			Benzo(a)anthracene	6E-08	--	5E-08	--	1E-07	N/A	N/A	--	N/A	N/A
			Benzo(a)pyrene	6E-07	--	5E-07	--	1E-06	N/A	N/A	--	N/A	N/A
			Benzo(b)fluoranthene	2E-07	--	1E-07	--	3E-07	N/A	N/A	--	N/A	N/A
			Benzo(k)fluoranthene	2E-08	--	1E-08	--	3E-08	N/A	N/A	--	N/A	N/A
			Dibenz(a,h)anthracene	1E-07	--	8E-08	--	2E-07	N/A	N/A	--	N/A	N/A
			Indeno(1,2,3-cd)pyrene	3E-08	--	3E-08	--	6E-08	N/A	N/A	--	N/A	N/A
			Antimony	N/A	--	--	--	N/A	Blood	4E-03	--	--	4E-03
			Arsenic	5E-06	--	2E-06	--	8E-06	Skin	8E-02	--	3E-02	1E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	7E-04	--	--	7E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	1E-03	--	2E-03	3E-03
			Chromium III	N/A	--	--	--	N/A	General Toxicity	6E-05	--	--	6E-05
			Copper	N/A	--	--	--	N/A	Kidney	3E-03	--	--	3E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	5E-02	--	--	5E-02
			Mercury	N/A	--	--	--	N/A	Nervous System	5E-03	--	--	5E-03
			Nickel	N/A	--	--	--	N/A	General Toxicity	7E-04	--	--	7E-04
			Thallium	N/A	--	--	--	N/A	Blood	2E-02	--	--	2E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	2E-02	--	--	2E-02
			Zinc	N/A	--	--	--	N/A	Blood	1E-03	--	--	1E-03
			Chemical Total	6E-06	--	3E-06	--	8E-06		2E-01	--	3E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						8E-06					2E-01
	Exposure Medium Total							8E-06					2E-01
Medium Total								8E-06					2E-01
Receptor Total								9E-06					3E-01

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 9E-06

Total Hazard Across All Media: 3E-01

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 9E-06
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 9E-06
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 9E-06

Total Skin HI =	1E-01
Total Nervous System HI =	7E-02
Total Immune System HI =	3E-04
Total Kidney HI =	3E-02
Total Blood HI =	3E-02
Total General Toxicity HI =	7E-04
Total Liver HI =	7E-03
Total Gastrointestinal System HI =	1E-02
Total Cardiovascular HI =	7E-04
Total Developmental HI =	N/A

TABLE 3-9.16 CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult: Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Non-Carcinogenic Hazard Quotient Young Child: Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 09 (Upper Reach 2)	Trichloroethene	--	--	1E-08	--	1E-08	Liver	--	--	2E-03	2E-03
			Arsenic	--	--	1E-08	--	1E-08	Skin	--	--	3E-04	3E-04
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	6E-05	6E-05
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	1E-03	1E-03
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	2E-03	2E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	4E-05	4E-05
			Chemical Total	--	--	3E-08	--	3E-08		--	--	5E-03	5E-03
			Radionuclide Total										
		Exposure Point Total						3E-08					5E-03
	Exposure Medium Total							3E-08					5E-03
Medium Total								3E-08					6E-03
Sediment	Sediment	Station 09	Benzo(a)anthracene	3E-09	--	5E-09	--	9E-09	N/A	N/A	--	N/A	N/A
			Benzo(a)pyrene	3E-08	--	6E-08	--	9E-08	N/A	N/A	--	N/A	N/A
			Benzo(b)fluoranthene	9E-09	--	1E-08	--	2E-08	N/A	N/A	--	N/A	N/A
			Benzo(k)fluoranthene	8E-10	--	1E-09	--	2E-09	N/A	N/A	--	N/A	N/A
			Dibenz(a,h)anthracene	5E-09	--	9E-09	--	1E-08	N/A	N/A	--	N/A	N/A
			Indeno(1,2,3-cd)pyrene	2E-09	--	3E-09	--	5E-09	N/A	N/A	--	N/A	N/A
			Antimony	N/A	--	--	--	N/A	Blood	6E-04	--	--	6E-04
			Arsenic	3E-07	--	2E-07	--	4E-07	Skin	1E-02	--	9E-03	2E-02
			Barium	N/A	--	--	--	N/A	Cardiovascular	1E-04	--	--	1E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	2E-04	--	7E-04	9E-04
			Chromium III	N/A	--	--	--	N/A	General Toxicity	9E-06	--	--	9E-06
			Copper	N/A	--	--	--	N/A	Kidney	5E-04	--	--	5E-04
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	1E-03	--	--	1E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	9E-04	--	--	9E-04
			Nickel	N/A	--	--	--	N/A	General Toxicity	1E-04	--	--	1E-04
			Thallium	N/A	--	--	--	N/A	Blood	4E-03	--	--	4E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	3E-03	--	--	3E-03
			Zinc	N/A	--	--	--	N/A	Blood	2E-04	--	--	2E-04
			Chemical Total	3E-07	--	3E-07	--	6E-07		2E-02	--	1E-02	3E-02
			Radionuclide Total										
		Exposure Point Total						6E-07					3E-02
	Exposure Medium Total							6E-07					3E-02
Medium Total								6E-07					3E-02
Receptor Total								6E-07					4E-02

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 6E-07

Total Hazard Across All Media: 4E-02

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 6E-07
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 6E-07
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 6E-07

Total Skin HI =	2E-02
Total Nervous System HI =	4E-03
Total Immune System HI =	4E-05
Total Kidney HI =	5E-03
Total Blood HI =	5E-03
Total General Toxicity HI =	1E-04
Total Liver HI =	2E-03
Total Gastrointestinal System HI =	1E-03
Total Cardiovascular HI =	1E-04
Total Developmental HI =	N/A

TABLE 3-9.17.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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
Surface Water	Surface Water	Station DA (Upper Reach 2)	Trichloroethene	–	--	2E-07	--	2E-07	Liver	--	--	7E-03	7E-03
			Arsenic	–	--	3E-07	--	3E-07	Skin	--	--	3E-03	3E-03
			Cadmium	–	--	N/A	--	N/A	Kidney	--	--	4E-04	4E-04
			Chromium VI	–	--	N/A	--	N/A	Gastrointestinal System	--	--	1E-02	1E-02
			Lead										
			Manganese	–	--	N/A	--	N/A	Nervous System	--	--	1E-02	1E-02
			Mercury	–	--	N/A	--	N/A	Immune System	--	--	3E-04	3E-04
			Chemical Total	–	--	5E-07	--	5E-07		--	--	3E-02	3E-02
			Radionuclide Total										
		Exposure Point Total						5E-07					3E-02
	Exposure Medium Total							5E-07					3E-02
Medium Total								5E-07					3E-02
Soil	Surface Soil	Station DA											
			Arsenic	5E-05	--	1E-05	--	6E-05	Skin	9E-01	--	2E-01	1E+00
			Cadmium	N/A	--	N/A	--	N/A	Kidney	7E-03	--	1E-02	2E-02
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	2E-01	--	--	2E-01
			Copper	N/A	--	--	--	N/A	Kidney	1E-02	--	--	1E-02
			Manganese	N/A	--	--	--	N/A	Nervous System	6E-02	--	--	6E-02
			Mercury	N/A	--	--	--	N/A	Nervous System	5E-02	--	--	5E-02
			Thallium	N/A	--	--	--	N/A	Blood	6E-02	--	--	6E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	5E-02	--	--	5E-02
			Zinc	N/A	--	--	--	N/A	Blood	3E-03	--	--	3E-03
			Chemical Total	5E-05	--	1E-05	--	6E-05		1E+00	--	2E-01	2E+00
			Radionuclide Total										
		Exposure Point Total						6E-05					2E+00
	Exposure Medium Total							6E-05					2E+00
Medium Total								6E-05					2E+00
Receptor Total								6E-05					2E+00

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 6E-05

Total Hazard Across All Media: 2E+00

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 6E-05
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 6E-05
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 6E-05

Total Skin HI =	1E+00
Total Nervous System HI =	1E-01
Total Immune System HI =	3E-04
Total Kidney HI =	9E-02
Total Blood HI =	6E-02
Total General Toxicity HI =	N/A
Total Liver HI =	7E-03
Total Gastrointestinal System HI =	2E-01
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.17.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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
Surface Water	Surface Water	Station DA (Upper Reach 2)	Trichloroethene	--	--	1E-08	--	1E-08	Liver	--	--	2E-03	2E-03
			Arsenic	--	--	1E-08	--	1E-08	Skin	--	--	3E-04	3E-04
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	6E-05	6E-05
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	1E-03	1E-03
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	2E-03	2E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	4E-05	4E-05
			Chemical Total	--	--	3E-08	--	3E-08		--	--	5E-03	5E-03
			Radionuclide Total										
		Exposure Point Total						3E-08					5E-03
	Exposure Medium Total							3E-08					5E-03
Medium Total								3E-08					5E-03
Soil	Surface Soil	Station DA											
			Arsenic	3E-06	--	1E-06	--	4E-06	Skin	2E-01	--	5E-02	2E-01
			Cadmium	N/A	--	N/A	--	N/A	Kidney	3E-04	--	1E-03	2E-03
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	3E-02	--	--	3E-02
			Copper	N/A	--	--	--	N/A	Kidney	2E-03	--	--	2E-03
			Manganese	N/A	--	--	--	N/A	Nervous System	3E-03	--	--	3E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	3E-03	--	--	3E-03
			Thallium	N/A	--	--	--	N/A	Blood	1E-02	--	--	1E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	9E-03	--	--	9E-03
			Zinc	N/A	--	--	--	N/A	Blood	5E-04	--	--	5E-04
			Chemical Total	3E-06	--	1E-06	--	4E-06		2E-01	--	5E-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

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 4E-06
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 4E-06
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 4E-06

Total Skin HI =	2E-01
Total Nervous System HI =	7E-03
Total Immune System HI =	4E-05
Total Kidney HI =	1E-02
Total Blood HI =	1E-02
Total General Toxicity HI =	N/A
Total Liver HI =	2E-03
Total Gastrointestinal System HI =	3E-02
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.18 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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
Surface Water	Surface Water	Station AM (Upper Reach 2)	Trichloroethene	--	--	6E-08	--	6E-08	Liver	--	--	2E-03	2E-03
			Arsenic	--	--	9E-08	--	9E-08	Skin	--	--	9E-04	9E-04
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	1E-04	1E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	4E-03	4E-03
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	4E-03	4E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	9E-05	9E-05
			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	Station AM	Antimony	N/A	--	--	--	N/A	Blood	2E-03	--	--	2E-03
			Arsenic	5E-06	--	2E-06	--	7E-06	Skin	1E-01	--	3E-02	1E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	4E-04	--	--	4E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	2E-03	--	4E-03	6E-03
			Chromium III	N/A	--	--	--	N/A	General Toxicity	1E-04	--	--	1E-04
			Copper	N/A	--	--	--	N/A	Kidney	3E-03	--	--	3E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	8E-03	--	--	8E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	9E-03	--	--	9E-03
			Nickel	N/A	--	--	--	N/A	General Toxicity	4E-04	--	--	4E-04
			Thallium	N/A	--	--	--	N/A	Blood	3E-03	--	--	3E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	1E-02	--	--	1E-02
			Zinc	N/A	--	--	--	N/A	Blood	1E-03	--	--	1E-03
			Chemical Total	5E-06	--	2E-06	--	7E-06		1E-01	--	4E-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								8E-06					2E-01

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 8E-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: 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 Skin HI =	1E-01
Total Nervous System HI =	2E-02
Total Immune System HI =	9E-05
Total Kidney HI =	2E-02
Total Blood HI =	6E-03
Total General Toxicity HI =	5E-04
[illegible] HI =	2E-03
Total Gastrointestinal [illegible] HI =	4E-03
Total Cardiovascular [illegible] HI =	4E-04
Total Developmental [illegible] HI =	N/A

TABLE 3-9.18.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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
Surface Water	Surface Water	Station AM (Upper Reach 2)	Trichloroethene	--	--	1E-06	--	1E-06	Liver	--	--	2E-03	2E-03
			Arsenic	--	--	1E-06	--	1E-06	Skin	--	--	3E-04	3E-04
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	6E-05	6E-05
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	1E-03	1E-03
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	2E-03	2E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	4E-05	4E-05
			Chemical Total	--	--	3E-06	--	3E-06		--	--	5E-03	5E-03
			Radionuclide Total										
		Exposure Point Total						3E-06					5E-03
	Exposure Medium Total							3E-06					5E-03
Medium Total								3E-06					5E-03
Sediment	Sediment	Station AM	Antimony	N/A	--	--	--	N/A	Blood	1E-03	--	--	1E-03
			Arsenic	9E-07	--	6E-07	--	2E-06	Skin	5E-02	--	3E-02	8E-02
			Barium	N/A	--	--	--	N/A	Cardiovascular	2E-04	--	--	2E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	9E-04	--	4E-03	5E-03
			Chromium III	N/A	--	--	--	N/A	General Toxicity	5E-05	--	--	5E-05
			Copper	N/A	--	--	--	N/A	Kidney	2E-03	--	--	2E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	4E-03	--	--	4E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	5E-03	--	--	5E-03
			Nickel	N/A	--	--	--	N/A	General Toxicity	2E-04	--	--	2E-04
			Thallium	N/A	--	--	--	N/A	Blood	1E-03	--	--	1E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	6E-03	--	--	6E-03
			Zinc	N/A	--	--	--	N/A	Blood	7E-04	--	--	7E-04
			Chemical Total	9E-07	--	6E-07	--	2E-06		7E-02	--	4E-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

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 Skin HI =	6E-02
Total Nervous System HI =	1E-02
Total Immune System HI =	4E-05
Total Kidney HI =	1E-02
Total Blood HI =	3E-03
Total General Toxicity HI =	3E-04
Total Liver HI =	2E-03
Total Gastrointestinal System HI =	1E-03
Total Cardiovascular HI =	2E-04
Total Developmental HI =	N/A

TABLE 3-8 19 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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
Surface Water	Surface Water	Station KF (Lower Reach 2)	Arsenic	--	--	1E-07	--	1E-07	Skin	--	--	9E-04	9E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	2E-03	2E-03
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	5E-03	5E-03
			Chemical Total	--	--	1E-07	--	1E-07		--	--	8E-03	8E-03
			Radionuclide Total										
		Exposure Point Total						1E-07					8E-03
	Exposure Medium Total							1E-07					8E-03
Medium Total								1E-07					8E-03
Sediment	Sediment	Station KF	Arsenic	7E-06	--	3E-06	--	1E-05	Skin	1E-01	--	4E-02	2E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	8E-04	--	--	8E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	1E-03	--	3E-03	5E-03
			Chromium III	N/A	--	--	--	N/A	General Toxicity	8E-05	--	--	8E-05
			Copper	N/A	--	--	--	N/A	Kidney	5E-03	--	--	5E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	7E-03	--	--	7E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	1E-02	--	--	1E-02
			Nickel	N/A	--	--	--	N/A	General Toxicity	6E-04	--	--	6E-04
			Vanadium	N/A	--	--	--	N/A	Kidney	3E-02	--	--	3E-02
			Zinc	N/A	--	--	--	N/A	Blood	2E-03	--	--	2E-03
			Chemical Total	7E-06	--	3E-06	--	1E-05		2E-01	--	4E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						1E-05					2E-01
	Exposure Medium Total							1E-05					2E-01
Medium Total								1E-05					2E-01
Soil	Surface Soil	Station KF	Arsenic	1E-05	--	2E-06	--	1E-05	Skin	2E-01	--	4E-02	3E-01
			Cadmium	N/A	--	N/A	--	N/A	Kidney	2E-03	--	4E-03	7E-03
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	6E-02	--	--	6E-02
			Copper	N/A	--	--	--	N/A	Kidney	5E-03	--	--	5E-03
			Manganese	N/A	--	--	--	N/A	Nervous System	2E-02	--	--	2E-02
			Mercury	N/A	--	--	--	N/A	Nervous System	1E-02	--	--	1E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	4E-02	--	--	4E-02
			Zinc	N/A	--	--	--	N/A	Blood	2E-03	--	--	2E-03
			Chemical Total	1E-05	--	2E-06	--	1E-05		4E-01	--	4E-02	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 Skin HI =	4E-01
Total Nervous System HI =	5E-02
Total Immune System HI =	N/A
Total Kidney HI =	1E-01
Total Blood HI =	4E-03
Total General Toxicity HI =	7E-04
Total Liver HI =	N/A
Total Gastrointestinal System HI =	6E-02
Total Cardiovascular HI =	8E-04
Total Developmental HI =	N/A

TABLE 3-8.18.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult: Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Non-Carcinogenic Hazard Quotient Young Child: Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station KF (Lower Reach 2)	Arsenic	--	--	5E-09	--	5E-09	Skin	--	--	2E-04	2E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	4E-04	4E-04
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	8E-04	8E-04
			Chemical Total	--	--	5E-09	--	5E-09		--	--	1E-03	1E-03
			Radionuclide Total										
		Exposure Point Total						5E-09					1E-03
	Exposure Medium Total							5E-09					1E-03
Medium Total								5E-09					1E-03
Sediment	Sediment	Station KF	Arsenic	4E-07	--	3E-07	--	6E-07	Skin	2E-02	--	1E-02	3E-02
			Barium	N/A	--	--	--	N/A	Cardiovascular	1E-04	--	--	1E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	2E-04	--	1E-03	1E-03
			Chromium III	N/A	--	--	--	N/A	General Toxicity	1E-05	--	--	1E-05
			Copper	N/A	--	--	--	N/A	Kidney	9E-04	--	--	9E-04
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	1E-03	--	--	1E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	2E-03	--	--	2E-03
			Nickel	N/A	--	--	--	N/A	General Toxicity	1E-04	--	--	1E-04
			Vanadium	N/A	--	--	--	N/A	Kidney	5E-03	--	--	5E-03
			Zinc	N/A	--	--	--	N/A	Blood	3E-04	--	--	3E-04
			Chemical Total	4E-07	--	3E-07	--	6E-07		3E-02	--	1E-02	5E-02
			Radionuclide Total										
		Exposure Point Total						6E-07					5E-02
	Exposure Medium Total							6E-07					5E-02
Medium Total								6E-07					5E-02
Soil	Surface Soil	Station KF	Arsenic	6E-07	--	2E-07	--	9E-07	Skin	4E-02	--	1E-02	5E-02
			Cadmium	N/A	--	N/A	--	N/A	Kidney	3E-04	--	1E-03	2E-03
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	8E-03	--	--	9E-03
			Copper	N/A	--	--	--	N/A	Kidney	9E-04	--	--	9E-04
			Manganese	N/A	--	--	--	N/A	Nervous System	3E-03	--	--	3E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	2E-03	--	--	2E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	7E-03	--	--	7E-03
			Zinc	N/A	--	--	--	N/A	Blood	3E-04	--	--	3E-04
			Chemical Total	6E-07	--	2E-07	--	8E-07		6E-02	--	1E-02	7E-02
			Radionuclide Total										
		Exposure Point Total						8E-07					7E-02
	Exposure Medium Total							8E-07					7E-02
Medium Total								8E-07					7E-02
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 Skin HI =	8E-02
Total Nervous System HI =	9E-03
Total Immune System HI =	N/A
Total Kidney HI =	2E-02
Total Blood HI =	6E-04
Total General Toxicity HI =	[illegible]
Total Liver HI =	[illegible]
Total Gastrointestinal System HI =	[illegible]
Total Cardiovascular HI =	[illegible]
Total Developmental HI =	[illegible]

TABLE 3-9 20 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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
Surface Water	Surface Water	Station 08 (Lower Reach 2)	Arsenic	--	--	1E-07	--	1E-07	Skin	--	--	9E-04	9E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	2E-03	2E-03
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	5E-03	5E-03
			Chemical Total	--	--	1E-07	--	1E-07		--	--	8E-03	8E-03
			Radionuclide Total										
		Exposure Point Total						1E-07					8E-03
	Exposure Medium Total							1E-07					8E-03
Medium Total								1E-07					8E-03
Sediment	Sediment	Station 08	Benzo(a)anthracene	9E-06	--	7E-06	--	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	--	4E-07	N/A	N/A	--	N/A	N/A
			Benzo(k)fluoranthene	3E-08	--	2E-08	--	5E-08	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	9E-06	--	7E-06	--	2E-07	N/A	N/A	--	N/A	N/A
			Antimony	N/A	--	--	--	N/A	Blood	6E-03	--	--	6E-03
			Arsenic	4E-06	--	1E-06	--	5E-06	Skin	7E-02	--	2E-02	9E-02
			Barium	N/A	--	--	--	N/A	Cardiovascular	4E-04	--	--	4E-04
			Chromium III	N/A	--	--	--	N/A	General Toxicity	1E-04	--	--	1E-04
			Copper	N/A	--	--	--	N/A	Kidney	6E-03	--	--	6E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	5E-03	--	--	5E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	1E-02	--	--	1E-02
			Nickel	N/A	--	--	--	N/A	General Toxicity	1E-03	--	--	1E-03
			Thallium	N/A	--	--	--	N/A	Blood	3E-02	--	--	3E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	2E-02	--	--	2E-02
			Zinc	N/A	--	--	--	N/A	Blood	3E-03	--	--	3E-03
			Chemical Total	6E-06	--	3E-06	--	9E-06		2E-01	--	2E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						9E-06					2E-01
	Exposure Medium Total							9E-06					2E-01
Medium Total								9E-06					2E-01
Receptor Total								9E-06					2E-01

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 9E-06

Total Hazard Across All Media: 2E-01

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

TABLE 3-9.20.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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
Surface Water	Surface Water	Station 08 (Lower Reach 2)	Arsenic	--	--	5E-09	--	5E-09	Skin	--	--	2E-04	2E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	4E-04	4E-04
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	8E-04	8E-04
			Chemical Total	--	--	5E-09	--	5E-09		--	--	1E-03	1E-03
			Radionuclide Total										
		Exposure Point Total						5E-09					1E-03
	Exposure Medium Total							5E-09					1E-03
Medium Total								5E-09					1E-03
Sediment	Sediment	Station 08											
			Benzo(a)anthracene	3E-09	--	5E-09	--	9E-09	N/A	N/A	--	N/A	N/A
			Benzo(a)pyrene	4E-08	--	7E-08	--	1E-07	N/A	N/A	--	N/A	N/A
			Benzo(b)fluoranthene	9E-09	--	1E-08	--	2E-08	N/A	N/A	--	N/A	N/A
			Benzo(k)fluoranthene	9E-10	--	1E-09	--	2E-09	N/A	N/A	--	N/A	N/A
			Dibenz(a,h)anthracene	6E-09	--	1E-08	--	2E-08	N/A	N/A	--	N/A	N/A
			Indeno(1,2,3-cd)pyrene	3E-09	--	4E-09	--	7E-09	N/A	N/A	--	N/A	N/A
			Antimony	N/A	--	--	--	N/A	Blood	6E-04	--	--	6E-04
			Arsenic	1E-07	--	1E-07	--	2E-07	Skin	8E-03	--	5E-03	1E-02
			Barium	N/A	--	--	--	N/A	Cardiovascular	6E-05	--	--	6E-05
			Chromium III	N/A	--	--	--	N/A	General Toxicity	9E-06	--	--	9E-06
			Copper	N/A	--	--	--	N/A	Kidney	6E-04	--	--	6E-04
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	5E-04	--	--	5E-04
			Mercury	N/A	--	--	--	N/A	Nervous System	1E-03	--	--	1E-03
			Nickel	N/A	--	--	--	N/A	General Toxicity	1E-04	--	--	1E-04
			Thallium	N/A	--	--	--	N/A	Blood	4E-03	--	--	4E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	4E-03	--	--	4E-03
			Zinc	N/A	--	--	--	N/A	Blood	3E-04	--	--	3E-04
			Chemical Total	2E-07	--	2E-07	--	4E-07		2E-02	--	5E-03	2E-02
			Radionuclide Total										
		Exposure Point Total						4E-07					2E-02
	Exposure Medium Total							4E-07					2E-02
Medium Total								4E-07					2E-02
Receptor Total								4E-07					3E-02

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 4E-07

Total Hazard Across All Media: 3E-02

Total Skin HI =	1E-02
Total Nervous System HI =	2E-03
Total Immune System HI =	N/A
Total Kidney HI =	4E-03
Total Blood HI =	5E-03
Total General Toxicity HI =	2E-04
Total Liver HI =	N/A
Total Gastrointestinal System HI =	4E-04
Total Cardiovascular HI =	6E-05
Total Developmental HI =	N/A

TABLE 3-9.21 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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
Surface Water	Surface Water	Station 07/OP (Reach 3)	Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	3E-03	3E-03
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	8E-03	8E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	4E-04	4E-04
			Chemical Total	--	--	N/A	--	N/A		--	--	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						N/A					1E-02
	Exposure Medium Total							N/A					1E-02
Medium Total								N/A					1E-02
Sediment	Sediment	Station 07/OP	Trichloroethene	2E-08	--	--	--	2E-08	Liver	1E-04	--	--	1E-04
			Benzo(a)anthracene	7E-07	--	6E-07	--	1E-06	N/A	N/A	--	N/A	N/A
			Benzo(a)pyrene	7E-06	--	6E-06	--	1E-05	N/A	N/A	--	N/A	N/A
			Benzo(b)fluoranthene	1E-06	--	1E-06	--	2E-06	N/A	N/A	--	N/A	N/A
			Benzo(k)fluoranthene	1E-07	--	1E-07	--	2E-07	N/A	N/A	--	N/A	N/A
			Dibenz(a,h)anthracene	1E-06	--	1E-06	--	3E-06	N/A	N/A	--	N/A	N/A
			Indeno(1,2,3-cd)pyrene	5E-07	--	4E-07	--	9E-07	N/A	N/A	--	N/A	N/A
			Phenanthrene	N/A	--	N/A	--	N/A	General Toxicity	9E-04	--	4E-04	8E-04
			Aroclor 1260	2E-08	--	2E-08	--	4E-08	Immune System	5E-03	--	4E-03	8E-03
			Antimony	N/A	--	--	--	N/A	Blood	8E-03	--	--	8E-03
			Arsenic	1E-05	--	4E-06	--	1E-05	Skin	2E-01	--	8E-02	3E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	2E-03	--	--	2E-03
			Cadmium	N/A	--	N/A	--	N/A	Kidney	7E-03	--	2E-02	2E-02
			Chromium III	N/A	--	--	--	N/A	General Toxicity	2E-04	--	--	2E-04
			Copper	N/A	--	--	--	N/A	Kidney	1E-02	--	--	1E-02
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	8E-03	--	--	8E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	4E-02	--	--	4E-02
			Nickel	N/A	--	--	--	N/A	General Toxicity	2E-03	--	--	2E-03
			Thallium	N/A	--	--	--	N/A	Blood	4E-02	--	--	4E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	7E-02	--	--	7E-02
			Zinc	N/A	--	--	--	N/A	Blood	6E-03	--	--	6E-03
			Chemical Total	2E-05	--	1E-05	--	3E-05		4E-01	--	8E-02	5E-01
			Radionuclide Total										
		Exposure Point Total						3E-05					5E-01
	Exposure Medium Total							3E-05					5E-01
Medium Total								3E-05					5E-01
Soil	Surface Soil	Station 07/OP	Arsenic	1E-05	--	2E-06	--	1E-05	Skin	2E-01	--	4E-02	2E-01
			Cadmium	N/A	--	N/A	--	N/A	Kidney	3E-04	--	6E-04	9E-04
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	7E-02	--	--	7E-02
			Copper	N/A	--	--	--	N/A	Kidney	5E-03	--	--	5E-03
			Manganese	N/A	--	--	--	N/A	Nervous System	7E-03	--	--	7E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	1E-02	--	--	1E-02
			Thallium	N/A	--	--	--	N/A	Blood	3E-02	--	--	3E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	4E-02	--	--	4E-02
			Zinc	N/A	--	--	--	N/A	Blood	8E-02	--	--	8E-02
			Chemical Total	1E-05	--	2E-06	--	1E-05		8E-01	--	4E-02	5E-01
			Radionuclide Total										
		Exposure Point Total						1E-05					5E-01
	Exposure Medium Total							1E-05					5E-01
Medium Total								1E-05					5E-01
Receptor Total								5E-05					1E+00

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 5E-05

Total Hazard Across All Media: 1E+00

Using the NCEA low-end slope factor for TCE, the risk for the receptor would change to: 5E-05
Using the CalEPA slope factor for TCE, the risk for the receptor would change to: 5E-05
Using the MADEP slope factor for TCE, the risk for the receptor would change to: 5E-05

Total Skin [illegible]	5E-01
Total Nervous System [illegible]	8E-02
Total Immune System [illegible]	8E-03
Total [illegible]	2E-01
Total [illegible]	2E-01
Total General [illegible]	3E-03
Total [illegible]	1E-04
Total [illegible]	7E-02
Total Cardiovascular [illegible]	2E-03
Total Developmental [illegible]	N/A

TABLE 3-9.21.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult: Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Non-Carcinogenic Hazard Quotient Young Child: Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 07/DP (Reach 3)	Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	5E-04	5E-04
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	1E-03	1E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	7E-05	7E-05
			Chemical Total	--	--	N/A	--	N/A		--	--	2E-03	2E-03
			Radionuclide Total										
		Exposure Point Total						N/A					2E-03
	Exposure Medium Total							N/A					2E-03
Medium Total								N/A					2E-03
Sediment	Sediment	Station 07/DP	Trichloroethene	8E-11	--	--	--	8E-11	Liver	2E-05	--	--	2E-05
			Benzo(a)anthracene	4E-08	--	6E-08	--	1E-07	N/A	N/A	--	N/A	N/A
			Benzo(a)pyrene	4E-07	--	6E-07	--	1E-06	N/A	N/A	--	N/A	N/A
			Benzo(b)fluoranthene	8E-08	--	1E-07	--	2E-07	N/A	N/A	--	N/A	N/A
			Benzo(k)fluoranthene	8E-09	--	1E-08	--	2E-08	N/A	N/A	--	N/A	N/A
			Dibenz(a,h)anthracene	7E-08	--	1E-07	--	2E-07	N/A	N/A	--	N/A	N/A
			Indeno(1,2,3-cd)pyrene	3E-08	--	4E-08	--	7E-08	N/A	N/A	--	N/A	N/A
			Phenanthrene	N/A	--	N/A	--	N/A	General Toxicity	8E-05	--	1E-04	2E-04
			Aroclor 1260	6E-10	--	1E-08	--	2E-08	Immune System	8E-04	--	1E-03	2E-03
			Antimony	N/A	--	--	--	N/A	Blood	1E-03	--	--	1E-03
			Arsenic	6E-07	--	4E-07	--	1E-06	Skin	3E-02	--	2E-02	5E-02
			Barium	N/A	--	--	--	N/A	Cardiovascular	3E-04	--	--	3E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	1E-03	--	5E-03	7E-03
			Chromium III	N/A	--	--	--	N/A	General Toxicity	4E-05	--	--	4E-05
			Copper	N/A	--	--	--	N/A	Kidney	2E-03	--	--	2E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	1E-03	--	--	1E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	7E-03	--	--	7E-03
			Nickel	N/A	--	--	--	N/A	General Toxicity	3E-04	--	--	3E-04
			Thallium	N/A	--	--	--	N/A	Blood	7E-03	--	--	7E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	1E-02	--	--	1E-02
			Zinc	N/A	--	--	--	N/A	Blood	1E-03	--	--	1E-03
			Chemical Total	1E-06	--	1E-06	--	3E-06		7E-02	--	3E-02	9E-02
			Radionuclide Total										
		Exposure Point Total						3E-06					9E-02
	Exposure Medium Total							3E-06					9E-02
Medium Total								3E-06					9E-02
Soil	Surface Soil	Station 07/DP	Arsenic	6E-07	--	2E-07	--	9E-07	Skin	4E-02	--	1E-02	5E-02
			Cadmium	N/A	--	N/A	--	N/A	Kidney	4E-06	--	2E-04	2E-04
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	1E-02	--	--	1E-02
			Copper	N/A	--	--	--	N/A	Kidney	8E-04	--	--	8E-04
			Manganese	N/A	--	--	--	N/A	Nervous System	1E-03	--	--	1E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	2E-03	--	--	2E-03
			Thallium	N/A	--	--	--	N/A	Blood	6E-03	--	--	6E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	7E-03	--	--	7E-03
			Zinc	N/A	--	--	--	N/A	Blood	2E-03	--	--	2E-02
			Chemical Total	6E-07	--	2E-07	--	9E-07		6E-02	--	1E-02	9E-02
			Radionuclide Total										
		Exposure Point Total						9E-07					9E-02
	Exposure Medium Total							9E-07					9E-02
Medium Total								9E-07					9E-02
Receptor Total								3E-06					2E-01

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-06

Total Hazard Across All Media: 2E-01

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

Total Skin HI =	1E-01
Total Nervous System HI =	1E-02
Total Immune System HI =	2E-03
Total Kidney HI =	3E-02
Total Blood HI =	3E-02
Total General Toxicity HI =	6E-04
Total Liver HI =	2E-05
Total Gastrointestinal System HI =	1E-02
Total Cardiovascular HI =	3E-04
Total Developmental HI =	N/A

TABLE 3-9.22 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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
Surface Water	Surface Water	Station LP (Reach 3)	Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	3E-03	3E-03
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	8E-03	8E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	4E-04	4E-04
			Chemical Total	--	--	N/A	--	N/A		--	--	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						N/A					1E-02
	Exposure Medium Total							N/A					1E-02
Medium Total								N/A					1E-02
Sediment	Sediment	Station LP	Antimony	N/A	--	--	--	N/A	Blood	7E-03	--	--	7E-03
			Arsenic	2E-05	--	7E-06	--	3E-05	Skin	4E-01	--	1E-01	5E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	8E-04	--	--	8E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	4E-03	--	9E-03	1E-02
			Chromium III	N/A	--	--	--	N/A	General Toxicity	8E-05	--	--	8E-05
			Copper	N/A	--	--	--	N/A	Kidney	2E-02	--	--	2E-02
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	4E-03	--	--	4E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	1E-02	--	--	1E-02
			Nickel	N/A	--	--	--	N/A	General Toxicity	1E-03	--	--	1E-03
			Thallium	N/A	--	--	--	N/A	Blood	4E-02	--	--	4E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	3E-02	--	--	3E-02
			Zinc	N/A	--	--	--	N/A	Blood	8E-03	--	--	8E-03
			Chemical Total	2E-05	--	7E-06	--	3E-05		5E-01	--	1E-01	6E-01
			Radionuclide Total										
		Exposure Point Total						3E-05					6E-01
	Exposure Medium Total							3E-05					6E-01
Medium Total								3E-05					6E-01
Receptor Total								3E-05					6E-01

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-05

Total Hazard Across All Media: 6E-01

Total Skin HI =	5E-01
Total Nervous System HI =	2E-02
Total Immune System HI =	4E-04
Total Kidney HI =	7E-02
Total Blood HI =	5E-02
Total General Toxicity HI =	1E-03
Total Liver HI =	N/A
Total Gastrointestinal System HI =	3E-03
Total Cardiovascular HI =	8E-04
Total Developmental HI =	N/A

TABLE 3-9.22 CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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
Surface Water	Surface Water	Station LP (Reach 3)	Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	5E-04	5E-04
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	1E-03	1E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	7E-05	7E-05
			Chemical Total	--	--	N/A	--	N/A		--	--	2E-03	2E-03
			Radionuclide Total										
		Exposure Point Total						N/A					2E-03
	Exposure Medium Total							N/A					2E-03
Medium Total								N/A					2E-03
Sediment	Sediment	Station LP	Antimony	N/A	--	--	--	N/A	Blood	1E-03	--	--	1E-03
			Arsenic	1E-06	--	8E-07	--	2E-06	Skin	6E-02	--	4E-02	1E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	1E-04	--	--	1E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	7E-04	--	3E-03	4E-03
			Chromium III	N/A	--	--	--	N/A	General Toxicity	1E-05	--	--	1E-05
			Copper	N/A	--	--	--	N/A	Kidney	4E-03	--	--	4E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	7E-04	--	--	7E-04
			Mercury	N/A	--	--	--	N/A	Nervous System	2E-03	--	--	2E-03
			Nickel	N/A	--	--	--	N/A	General Toxicity	2E-04	--	--	2E-04
			Thallium	N/A	--	--	--	N/A	Blood	6E-03	--	--	6E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	5E-03	--	--	5E-03
			Zinc	N/A	--	--	--	N/A	Blood	1E-03	--	--	1E-03
			Chemical Total	1E-06	--	8E-07	--	2E-06		8E-02	--	4E-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 Skin HI =	1E-01
Total Nervous System HI =	4E-03
Total Immune System HI =	7E-05
Total Kidney HI =	1E-02
Total Blood HI =	8E-03
Total General Toxicity HI =	2E-04
Total Liver HI =	N/A
Total Gastrointestinal System HI =	5E-04
Total Cardiovascular HI =	1E-04
Total Developmental HI =	N/A

TABLE 3-9.23.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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
Surface Water	Surface Water	Station AS (Reach 3)	Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	1E-03	1E-03
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	3E-03	3E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	1E-04	1E-04
			Chemical Total	--	--	N/A	--	N/A		--	--	4E-03	4E-03
			Radionuclide Total										
		Exposure Point Total						N/A					4E-03
	Exposure Medium Total							N/A					4E-03
Medium Total								N/A					4E-03
Sediment	Sediment	Station AS											
			Antimony	N/A	--	--	--	N/A	Blood	3E-03	--	--	3E-03
			Arsenic	5E-06	--	2E-06	--	7E-06	Skin	1E-01	--	3E-02	1E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	7E-04	--	--	7E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	6E-03	--	1E-02	2E-02
			Chromium III	N/A	--	--	--	N/A	General Toxicity	3E-04	--	--	3E-04
			Copper	N/A	--	--	--	N/A	Kidney	9E-03	--	--	9E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	3E-03	--	--	3E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	1E-02	--	--	1E-02
			Nickel	N/A	--	--	--	N/A	General Toxicity	9E-04	--	--	9E-04
			Thallium	N/A	--	--	--	N/A	Blood	7E-03	--	--	7E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	3E-02	--	--	3E-02
			Zinc	N/A	--	--	--	N/A	Blood	4E-03	--	--	4E-03
			Chemical Total	5E-06	--	2E-06	--	7E-06		2E-01	--	5E-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								7E-06					2E-01

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 7E-06

Total Hazard Across All Media: 2E-01

Total Skin HI =	1E-01
Total Nervous System HI =	2E-02
Total Immune System HI =	1E-04
Total Kidney HI =	6E-02
Total Blood HI =	1E-02
Total General Toxicity HI =	1E-03
Total Liver HI =	N/A
Total Gastrointestinal System HI =	1E-03
Total Cardiovascular HI =	7E-04
Total Developmental HI =	N/A

TABLE 3-9.23 CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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
Surface Water	Surface Water	Station AS (Reach 3)	Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	5E-04	5E-04
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	1E-03	1E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	7E-05	7E-05
			Chemical Total	--	--	N/A	--	N/A		--	--	2E-03	2E-03
			Radionuclide Total										
		Exposure Point Total						N/A					2E-03
	Exposure Medium Total							N/A					2E-03
Medium Total								N/A					2E-03
Sediment	Sediment	Station AS	Antimony	N/A	--	--	--	N/A	Blood	1E-03	--	--	1E-03
			Arsenic	8E-07	--	8E-07	--	1E-06	Skin	5E-02	--	3E-02	8E-02
			Barium	N/A	--	--	--	N/A	Cardiovascular	3E-04	--	--	3E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	3E-03	--	1E-02	2E-02
			Chromium III	N/A	--	--	--	N/A	General Toxicity	1E-04	--	--	1E-04
			Copper	N/A	--	--	--	N/A	Kidney	4E-03	--	--	4E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	1E-03	--	--	1E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	7E-03	--	--	7E-03
			Nickel	N/A	--	--	--	N/A	General Toxicity	4E-04	--	--	4E-04
			Thallium	N/A	--	--	--	N/A	Blood	3E-03	--	--	3E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	2E-02	--	--	2E-02
			Zinc	N/A	--	--	--	N/A	Blood	2E-03	--	--	2E-03
			Chemical Total	8E-07	--	8E-07	--	1E-06		9E-02	--	4E-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 Skin HI =	8E-02
Total Nervous System HI =	1E-02
Total Immune System HI =	7E-05
Total Kidney HI =	4E-02
Total Blood HI =	6E-03
Total General Toxicity HI =	6E-04
Total Liver HI =	N/A
Total Gastrointestinal System HI =	5E-04
Total Cardiovascular HI =	3E-04
Total Developmental HI =	N/A

TABLE 3-9.24.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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
Surface Water	Surface Water	Station 06 (Reach 4)	Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	5E-03	5E-03
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	7E-03	7E-03
			Chemical Total	--	--	N/A	--	N/A		--	--	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						N/A					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 Skin HI =	N/A
Total Nervous System HI =	7E-03
Total Immune System HI =	N/A
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	5E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.24.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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
Surface Water	Surface Water	Station 06 (Reach 4)	Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	8E-04	8E-04
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	1E-03	1E-03
			Chemical Total	--	--	N/A	--	N/A		--	--	2E-03	2E-03
			Radionuclide Total										
		Exposure Point Total						N/A					2E-03
	Exposure Medium Total							N/A					2E-03
Medium Total								N/A					2E-03
Receptor Total								N/A					2E-03

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: N/A

Total Hazard Across All Media: 2E-03

Total Skin HI =	N/A
Total Nervous System HI =	1E-03
Total Immune System HI =	N/A
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	8E-04
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.25.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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
Surface Water	Surface Water	Station 05 (Reach 5)	Chloroform	--	--	N/A	--	N/A	Liver	--	--	5E-05	5E-05
			Tetrachloroethene	--	--	9E-07	--	9E-07	Liver	--	--	7E-04	7E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	9E-04	9E-04
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	5E-03	5E-03
			Chemical Total	--	--	9E-07	--	9E-07		--	--	6E-03	6E-03
			Radionuclide Total										
		Exposure Point Total						9E-07					6E-03
	Exposure Medium Total							9E-07					6E-03
Medium Total								9E-07					6E-03
Sediment	Sediment	Station 05	Benzo(a)anthracene	3E-07	--	2E-07	--	5E-07	N/A	N/A	--	N/A	N/A
			Benzo(a)pyrene	3E-06	--	3E-06	--	6E-06	N/A	N/A	--	N/A	N/A
			Benzo(b)fluoranthene	4E-07	--	3E-07	--	7E-07	N/A	N/A	--	N/A	N/A
			Benzo(k)fluoranthene	2E-06	--	2E-06	--	4E-06	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	2E-04	--	1E-04	3E-04
			Antimony	N/A	--	--	--	N/A	Blood	6E-03	--	--	6E-03
			Arsenic	3E-06	--	1E-06	--	5E-06	Skin	6E-02	--	2E-02	8E-02
			Barium	N/A	--	--	--	N/A	Cardiovascular	9E-04	--	--	9E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	2E-03	--	5E-03	7E-03
			Chromium III	N/A	--	--	--	N/A	General Toxicity	1E-04	--	--	1E-04
			Copper	N/A	--	--	--	N/A	Kidney	4E-03	--	--	4E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	2E-02	--	--	2E-02
			Mercury	N/A	--	--	--	N/A	Nervous System	2E-02	--	--	2E-02
			Nickel	N/A	--	--	--	N/A	General Toxicity	8E-04	--	--	8E-04
			Thallium	N/A	--	--	--	N/A	Blood	2E-02	--	--	2E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	3E-02	--	--	3E-02
			Zinc	N/A	--	--	--	N/A	Blood	3E-03	--	--	3E-03
			Chemical Total	7E-06	--	5E-06	--	1E-05		2E-01	--	3E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						1E-05					2E-01
	Exposure Medium Total							1E-05					2E-01
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

Using the MADEP slope factor for PCE, the risk for this receptor would change to: 1E-05

Total Skin HI =	8E-02
Total Nervous System HI =	4E-02
Total Immune System HI =	N/A
Total Kidney HI =	4E-02
Total Blood HI =	3E-02
Total General Toxicity HI =	1E-03
Total Liver HI =	7E-04
Total Gastrointestinal System HI =	9E-04
Total Cardiovascular HI =	9E-04
Total Developmental HI =	N/A

TABLE 3-9.25.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult: Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Non-Carcinogenic Hazard Quotient Young Child: Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 05 (Reach 5)	Chloroform	--	--	N/A	--	N/A	Liver	--	--	1E-05	1E-05
			Tetrachloroethene	--	--	6E-08	--	6E-08	Liver	--	--	2E-04	2E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	2E-04	2E-04
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	8E-04	8E-04
			Chemical Total	--	--	6E-08	--	6E-08		--	--	1E-03	1E-03
			Radionuclide Total										
		Exposure Point Total						6E-08					1E-03
	Exposure Medium Total							6E-08					1E-03
Medium Total								6E-08					1E-03
Sediment	Sediment	Station 05	Benzo(a)anthracene	3E-09	--	5E-09	--	8E-09	N/A	N/A	--	N/A	N/A
			Benzo(a)pyrene	2E-08	--	4E-08	--	6E-08	N/A	N/A	--	N/A	N/A
			Benzo(b)fluoranthene	2E-09	--	4E-09	--	6E-09	N/A	N/A	--	N/A	N/A
			Benzo(k)fluoranthene	2E-10	--	3E-10	--	5E-10	N/A	N/A	--	N/A	N/A
			Indeno(1,2,3-cd)pyrene	1E-09	--	2E-09	--	3E-09	N/A	N/A	--	N/A	N/A
			Phenanthrene	N/A	--	N/A	--	N/A	General Toxicity	8E-06	--	1E-05	2E-05
			Antimony	N/A	--	--	--	N/A	Blood	6E-04	--	--	6E-04
			Arsenic	6E-08	--	4E-08	--	1E-07	Skin	3E-03	--	2E-03	5E-03
			Barium	N/A	--	--	--	N/A	Cardiovascular	1E-04	--	--	1E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	5E-05	--	2E-04	3E-04
			Chromium III	N/A	--	--	--	N/A	General Toxicity	5E-06	--	--	5E-06
			Copper	N/A	--	--	--	N/A	Kidney	2E-04	--	--	2E-04
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	1E-03	--	--	1E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	2E-04	--	--	2E-04
			Nickel	N/A	--	--	--	N/A	General Toxicity	1E-04	--	--	1E-04
			Thallium	N/A	--	--	--	N/A	Blood	2E-03	--	--	2E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	4E-03	--	--	4E-03
			Zinc	N/A	--	--	--	N/A	Blood	1E-04	--	--	1E-04
			Chemical Total	9E-08	--	9E-08	--	2E-07		1E-02	--	2E-03	1E-02
			Radionuclide Total										
		Exposure Point Total						2E-07					1E-02
	Exposure Medium Total							2E-07					1E-02
Medium Total								2E-07					1E-02
Receptor Total								2E-07					2E-02

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-07

Using the MADEP slope factor for PCE, the risk for this receptor would change to: 2E-07

Total Hazard Across All Media: 2E-02

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

TABLE 3-9.26.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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
Surface Water	Surface Water	Station 04 (Upper Reach 6)	Arsenic	--	--	7E-08	--	7E-08	Skin	--	--	7E-04	7E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	4E-03	4E-03
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	5E-03	5E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	1E-04	1E-04
			Chemical Total	--	--	7E-08	--	7E-08		--	--	9E-03	9E-03
			Radionuclide Total										
		Exposure Point Total						7E-08					9E-03
	Exposure Medium Total							7E-08					9E-03
Medium Total								7E-08					9E-03
Receptor Total								7E-08					9E-03

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 7E-08

Total Hazard Across All Media: 9E-03

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

TABLE 3-9.26.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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
Surface Water	Surface Water	Station 04 (Upper Reach 6)	Arsenic	--	--	3E-09	--	3E-09	Skin	--	--	8E-05	8E-05
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	3E-04	3E-04
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	5E-04	5E-04
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	2E-05	2E-05
			Chemical Total	--	--	3E-09	--	3E-09		--	--	9E-04	9E-04
			Radionuclide Total										
		Exposure Point Total						3E-09					9E-04
	Exposure Medium Total							3E-09					9E-04
Medium Total								3E-09					9E-04
Receptor Total								3E-09					9E-04

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-09

Total Hazard Across All Media: 9E-04

Total Skin HI =	8E-05
Total Nervous System HI =	5E-04
Total Immune System HI =	2E-05
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	3E-04
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.27.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult: Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Non-Carcinogenic Hazard Quotient Young Child: Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 03 (Upper Reach 6)	Arsenic	--	--	7E-08	--	7E-08	Skin	--	--	7E-04	7E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	4E-03	4E-03
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	5E-03	5E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	1E-04	1E-04
			Chemical Total	--	--	7E-08	--	7E-08		--	--	9E-03	9E-03
			Radionuclide Total										
		Exposure Point Total						7E-08					9E-03
	Exposure Medium Total							7E-08					9E-03
Medium Total								7E-08					9E-03
Sediment	Sediment	Station 03	Benzo(a)anthracene	2E-07	--	1E-07	--	3E-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	--	1E-07	--	3E-07	N/A	N/A	--	N/A	N/A
			Benzo(k)fluoranthene	8E-09	--	7E-09	--	1E-08	N/A	N/A	--	N/A	N/A
			Dibenz(a,h)anthracene	1E-07	--	1E-07	--	3E-07	N/A	N/A	--	N/A	N/A
			Indeno(1,2,3-cd)pyrene	8E-08	--	6E-08	--	1E-07	N/A	N/A	--	N/A	N/A
			Phenanthrene	N/A	--	N/A	--	N/A	General Toxicity	7E-05	--	5E-05	1E-04
			Aroclor 1260	4E-08	--	3E-08	--	7E-08	Immune System	8E-03	--	6E-03	1E-02
			Antimony	N/A	--	--	--	N/A	Blood	6E-03	--	--	6E-03
			Arsenic	1E-05	--	4E-06	--	2E-05	Skin	2E-01	--	7E-02	3E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	2E-03	--	--	2E-03
			Cadmium	N/A	--	N/A	--	N/A	Kidney	7E-03	--	2E-02	2E-02
			Chromium III	N/A	--	--	--	N/A	General Toxicity	2E-04	--	--	2E-04
			Copper	N/A	--	--	--	N/A	Kidney	8E-03	--	--	8E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	1E-02	--	--	1E-02
			Mercury	N/A	--	--	--	N/A	Nervous System	1E-02	--	--	1E-02
			Nickel	N/A	--	--	--	N/A	General Toxicity	2E-03	--	--	2E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	7E-02	--	--	7E-02
			Zinc	N/A	--	--	--	N/A	Blood	7E-03	--	--	7E-03
			Chemical Total	1E-05	--	6E-06	--	2E-05		3E-01	--	9E-02	4E-01
			Radionuclide Total										
		Exposure Point Total						2E-05					4E-01
	Exposure Medium Total							2E-05					4E-01
Medium Total								2E-05					4E-01
Receptor Total								2E-05					4E-01

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-05

Total Hazard Across All Media: 4E-01

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

TABLE 3-9.27.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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
Surface Water	Surface Water	Station 03 (Upper Reach 6)	Arsenic	--	--	3E-09	--	3E-09	Skin	--	--	8E-05	8E-05
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	3E-04	3E-04
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	5E-04	5E-04
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	2E-05	2E-05
			Chemical Total	--	--	3E-09	--	3E-09		--	--	9E-04	9E-04
			Radionuclide Total										
		Exposure Point Total						3E-09					9E-04
	Exposure Medium Total							3E-09					9E-04
Medium Total								3E-09					9E-04
Sediment	Sediment	Station 03											
			Benzo(a)anthracene	4E-09	--	6E-09	--	1E-08	N/A	N/A	--	N/A	N/A
			Benzo(a)pyrene	3E-08	--	5E-08	--	8E-08	N/A	N/A	--	N/A	N/A
			Benzo(b)fluoranthene	4E-09	--	7E-09	--	1E-08	N/A	N/A	--	N/A	N/A
			Benzo(k)fluoranthene	2E-10	--	4E-10	--	6E-10	N/A	N/A	--	N/A	N/A
			Dibenz(a,h)anthracene	7E-09	--	1E-08	--	2E-08	N/A	N/A	--	N/A	N/A
			Indeno(1,2,3-cd)pyrene	2E-09	--	4E-09	--	6E-09	N/A	N/A	--	N/A	N/A
			Phenanthrene	N/A	--	N/A	--	N/A	General Toxicity	6E-06	--	6E-06	1E-05
			Aroclor 1260	5E-10	--	8E-10	--	1E-09	Immune System	6E-04	--	9E-04	2E-03
			Antimony	N/A	--	--	--	N/A	Blood	5E-04	--	--	5E-04
			Arsenic	2E-07	--	2E-07	--	4E-07	Skin	1E-02	--	9E-03	2E-02
			Barium	N/A	--	--	--	N/A	Cardiovascular	1E-04	--	--	1E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	4E-04	--	2E-03	2E-03
			Chromium III	N/A	--	--	--	N/A	General Toxicity	1E-05	--	--	1E-05
			Copper	N/A	--	--	--	N/A	Kidney	5E-04	--	--	5E-04
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	7E-04	--	--	7E-04
			Mercury	N/A	--	--	--	N/A	Nervous System	6E-04	--	--	6E-04
			Nickel	N/A	--	--	--	N/A	General Toxicity	1E-04	--	--	1E-04
			Vanadium	N/A	--	--	--	N/A	Kidney	5E-03	--	--	5E-03
			Zinc	N/A	--	--	--	N/A	Blood	4E-04	--	--	4E-04
			Chemical Total	3E-07	--	3E-07	--	5E-07		2E-02	--	1E-02	3E-02
			Radionuclide Total										
		Exposure Point Total						5E-07					3E-02
	Exposure Medium Total							5E-07					3E-02
Medium Total								5E-07					3E-02
Receptor Total								5E-07					4E-02

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 5E-07

Total Hazard Across All Media: 4E-02

Total Skin HI =	2E-02
Total Nervous System HI =	2E-03
Total Immune System HI =	2E-03
Total Kidney HI =	6E-03
Total Blood HI =	9E-04
Total General Toxicity HI =	2E-04
Total Liver HI =	N/A
Total Gastrointestinal System HI =	3E-04
Total Cardiovascular HI =	1E-04
Total Developmental HI =	N/A

TABLE 3-9.28.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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
Surface Water	Surface Water	Station 02 (Upper Reach 6)	Arsenic	--	--	7E-08	--	7E-08	Skin	--	--	7E-04	7E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	4E-03	4E-03
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	5E-03	5E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	1E-04	1E-04
			Chemical Total	--	--	7E-08	--	7E-08		--	--	9E-03	9E-03
			Radionuclide Total										
		Exposure Point Total						7E-08					9E-03
	Exposure Medium Total							7E-08					9E-03
Medium Total								7E-08					9E-03
Receptor Total								7E-08					9E-03

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 7E-08

Total Hazard Across All Media: 9E-03

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

TABLE 3-9.28.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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
Surface Water	Surface Water	Station 02 (Upper Reach 6)	Arsenic	--	--	3E-09	--	3E-09	Skin	--	--	8E-05	8E-05
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	3E-04	3E-04
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	5E-04	5E-04
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	2E-05	2E-05
			Chemical Total	--	--	3E-09	--	3E-09		--	--	9E-04	9E-04
			Radionuclide Total										
		Exposure Point Total						3E-09					9E-04
	Exposure Medium Total							3E-09					9E-04
Medium Total								3E-09					9E-04
Receptor Total								3E-09					9E-04

-- = Not Evaluated

N/A = Not Applicable

Total Risk Across All Media: 3E-09

Total Hazard Across All Media: 9E-04

Total Skin HI =	8E-05
Total Nervous System HI =	5E-04
Total Immune System HI =	2E-05
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	3E-04
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.29.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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
Surface Water	Surface Water	Station 01 (Sandy Beach)	Arsenic	3E-07	--	6E-08	--	3E-07	Skin	4E-03	--	5E-04	4E-03
			Chromium VI	N/A	--	N/A	--	N/A	Gastrointestinal System	2E-04	--	2E-03	2E-03
			Lead										
			Manganese	N/A	--	N/A	--	N/A	Nervous System	4E-04	--	1E-03	2E-03
			Mercury	N/A	--	N/A	--	N/A	Immune System	5E-05	--	9E-05	1E-04
			Chemical Total	3E-07	--	6E-08	--	3E-07		4E-03	--	4E-03	8E-03
			Radionuclide Total										
		Exposure Point Total						3E-07					8E-03
	Exposure Medium Total							3E-07					8E-03
Medium Total								3E-07					8E-03
Sediment	Sediment	Station 01	Benzo(a)anthracene	3E-08	--	3E-08	--	6E-08	N/A	N/A	--	N/A	N/A
			Benzo(a)pyrene	3E-07	--	2E-07	--	5E-07	N/A	N/A	--	N/A	N/A
			Benzo(b)fluoranthene	2E-08	--	2E-08	--	4E-08	N/A	N/A	--	N/A	N/A
			Benzo(k)fluoranthene	3E-09	--	2E-09	--	5E-09	N/A	N/A	--	N/A	N/A
			Indeno(1,2,3-cd)pyrene	2E-08	--	1E-08	--	3E-08	N/A	N/A	--	N/A	N/A
			Phenanthrene	N/A	--	N/A	--	N/A	General Toxicity	3E-05	--	2E-05	6E-05
			Antimony	N/A	--	--	--	N/A	Blood	3E-03	--	--	3E-03
			Arsenic	8E-07	--	3E-07	--	1E-06	Skin	1E-02	--	5E-03	2E-02
			Barium	N/A	--	--	--	N/A	Cardiovascular	3E-04	--	--	3E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	2E-04	--	5E-04	8E-04
			Chromium III	N/A	--	--	--	N/A	General Toxicity	9E-06	--	--	9E-06
			Copper	N/A	--	--	--	N/A	Kidney	8E-04	--	--	8E-04
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	2E-03	--	--	2E-03
			Nickel	N/A	--	--	--	N/A	General Toxicity	5E-04	--	--	5E-04
			Thallium	N/A	--	--	--	N/A	Blood	9E-03	--	--	9E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	2E-02	--	--	2E-02
			Zinc	N/A	--	--	--	N/A	Blood	7E-04	--	--	7E-04
			Chemical Total	1E-06	--	6E-07	--	2E-06		5E-02	--	5E-03	5E-02
			Radionuclide Total										
		Exposure Point Total						2E-06					5E-02
	Exposure Medium Total							2E-06					5E-02
Medium Total								2E-06					5E-02
Receptor Total								2E-06					6E-02

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-06

Total Hazard Across All Media: 6E-02

Total Skin HI =	2E-02
Total Nervous System HI =	4E-03
Total Immune System HI =	1E-04
Total Kidney HI =	2E-02
Total Blood HI =	1E-02
Total General Toxicity HI =	6E-04
Total Liver HI =	N/A
Total Gastrointestinal System HI =	2E-03
Total Cardiovascular HI =	3E-04
Total Developmental HI =	N/A

TABLE 3-9.29.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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
Surface Water	Surface Water	Station 01 (Sandy Beach)	Arsenic	5E-09	- -	1E-09	- -	7E-09	Skin	2E-04	- -	3E-05	3E-04
			Chromium VI	N/A	- -	N/A	- -	N/A	Gastrointestinal System	1E-05	- -	1E-04	1E-04
			Lead										
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	2E-05	- -	8E-05	1E-04
			Mercury	N/A	- -	N/A	- -	N/A	Immune System	3E-06	- -	6E-06	9E-06
			Chemical Total	5E-09	- -	1E-09	- -	7E-09		3E-04	- -	2E-04	5E-04
			Radionuclide Total										
		Exposure Point Total						7E-09					5E-04
	Exposure Medium Total							7E-09					5E-04
Medium Total								7E-09					5E-04
Sediment	Sediment	Station 01	Benzo(a)anthracene	1E-09	- -	2E-09	- -	3E-09	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	1E-08	- -	2E-08	- -	3E-08	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	1E-09	- -	2E-09	- -	3E-09	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	1E-10	- -	2E-10	- -	3E-10	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	8E-10	- -	1E-09	- -	2E-09	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	9E-06	- -	8E-06	1E-05
			Antimony	N/A	- -	- -	- -	N/A	Blood	5E-04	- -	- -	5E-04
			Arsenic	4E-08	- -	3E-08	- -	6E-08	Skin	2E-03	- -	2E-03	4E-03
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	4E-05	- -	- -	4E-05
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	4E-05	- -	2E-04	2E-04
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	1E-06	- -	- -	1E-06
			Copper	N/A	- -	- -	- -	N/A	Kidney	9E-05	- -	- -	9E-05
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	3E-04	- -	- -	3E-04
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	8E-05	- -	- -	8E-05
			Thallium	N/A	- -	- -	- -	N/A	Blood	2E-03	- -	- -	2E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	2E-03	- -	- -	2E-03
			Zinc	N/A	- -	- -	- -	N/A	Blood	8E-05	- -	- -	8E-05
			Chemical Total	6E-08	- -	6E-08	- -	1E-07		7E-03	- -	2E-03	9E-03
			Radionuclide Total										
		Exposure Point Total						1E-07					9E-03
	Exposure Medium Total							1E-07					9E-03
Medium Total								1E-07					9E-03
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 Skin HI =	4E-03
Total Nervous System HI =	4E-04
Total Immune System HI =	9E-06
Total Kidney HI =	3E-03
Total Blood HI =	2E-03
Total General Toxicity HI =	9E-05
Total Liver HI =	N/A
Total Gastrointestinal System HI =	1E-04
Total Cardiovascular HI =	4E-05
Total Developmental HI =	N/A

TABLE 3-9.30.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Older Child + Adult					Non-Carcinogenic Hazard Quotient Older Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Fish Fillet Tissue	Reach 3											
			4,4'-DDD	7E-08	--	--	--	7E-08	Immune System	4E-04	--	--	4E-04
			4,4'-DDE	2E-07	--	--	--	2E-07	Developmental	6E-03	--	--	6E-03
			4,4'-DDT	4E-08	--	--	--	4E-08	Liver	6E-04	--	--	6E-04
			Aldrin	2E-07	--	--	--	2E-07	Liver	1E-03	--	--	1E-03
			alpha-Chlordane	8E-08	--	--	--	8E-08	Liver	1E-03	--	--	1E-03
			Aroclor-1254	2E-06	--	--	--	2E-06	Immune System	1E-01	--	--	1E-01
			Aroclor-1260	5E-06	--	--	--	5E-06	Immune System	3E-01	--	--	3E-01
			delta-BHC	N/A	--	--	--	N/A	Liver/Kidney	2E-04	--	--	2E-04
			Dieldrin	1E-06	--	--	--	1E-06	Liver	5E-03	--	--	5E-03
			Heptachlor epoxide	3E-07	--	--	--	3E-07	Liver	7E-03	--	--	7E-03
			Antimony	N/A	--	--	--	N/A	Blood	2E-02	--	--	2E-02
			Lead										
			Mercury	N/A	--	--	--	N/A	Nervous System	4E-01	--	--	4E-01
			Selenium	N/A	--	--	--	N/A	Liver	1E-02	--	--	1E-02
			Chemical Total	9E-06	--	--	--	9E-06		9E-01	--	--	9E-01
			Radionuclide Total										
		Exposure Point Total						9E-06					9E-01
	Exposure Medium Total							9E-06					9E-01
Medium Total								9E-06					9E-01
Receptor Total								9E-06					9E-01

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 9E-06

Total Hazard Across All Media: 9E-01

Total Skin HI =	N/A
Total Nervous System HI =	4E-01
Total Immune System HI =	4E-01
Total Kidney HI =	2E-04
Total Blood HI =	2E-02
Total General Toxicity HI =	N/A
Total Liver HI =	3E-02
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	6E-03

TABLE 3-9.30.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Older Child + Adult					Non-Carcinogenic Hazard Quotient Older Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Fish Fillet Tissue	Reach 3											
			4,4'-DDD	8E-09	--	--	--	8E-09	Immune System	1E-04	--	--	1E-04
			4,4'-DDE	3E-08	--	--	--	3E-08	Developmental	2E-03	--	--	2E-03
			4,4'-DDT	5E-09	--	--	--	5E-09	Liver	2E-04	--	--	2E-04
			Aldrin	3E-08	--	--	--	3E-08	Liver	4E-04	--	--	4E-04
			alpha-Chlordane	1E-08	--	--	--	1E-08	Liver	5E-04	--	--	5E-04
			Aroclor-1254	1E-07	--	--	--	1E-07	Immune System	4E-02	--	--	4E-02
			Aroclor-1260	3E-07	--	--	--	3E-07	Immune System	1E-01	--	--	1E-01
			delta-BHC	N/A	--	--	--	N/A	Liver/Kidney	7E-05	--	--	7E-05
			Dieldrin	2E-07	--	--	--	2E-07	Liver	2E-03	--	--	2E-03
			Heptachlor epoxide	4E-08	--	--	--	4E-08	Liver	3E-03	--	--	3E-03
			Antimony	N/A	--	--	--	N/A	Blood	1E-02	--	--	1E-02
			Lead										
			Mercury	N/A	--	--	--	N/A	Nervous System	1E-01	--	--	1E-01
			Selenium	N/A	--	--	--	N/A	Liver	5E-03	--	--	5E-03
			Chemical Total	7E-07	--	--	--	7E-07		3E-01	--	--	3E-01
			Radionuclide Total										
		Exposure Point Total						7E-07					3E-01
	Exposure Medium Total							7E-07					3E-01
Medium Total								7E-07					3E-01
Receptor Total								7E-07					3E-01

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 7E-07

Total Hazard Across All Media: 3E-01

Total Skin HI =	N/A
Total Nervous System HI =	1E-01
Total Immune System HI =	2E-01
Total Kidney HI =	7E-05
Total Blood HI =	1E-02
Total General Toxicity HI =	N/A
Total Liver HI =	1E-02
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	2E-03

TABLE 3-9.31.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Older Child + Adult					Non-Carcinogenic Hazard Quotient Older Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Fish Fillet Tissue	Reaches 4 and 5											
			4,4'-DDD	2E-07	--	--	--	2E-07	Immune System	8E-04	--	--	8E-04
			4,4'-DDE	1E-06	--	--	--	1E-06	Developmental	3E-02	--	--	3E-02
			4,4'-DDT	1E-07	--	--	--	1E-07	Liver	2E-03	--	--	2E-03
			Aldrin	4E-07	--	--	--	4E-07	Liver	2E-03	--	--	2E-03
			alpha-Chlordane	4E-08	--	--	--	4E-08	Liver	5E-04	--	--	5E-04
			Aroclor-1254	7E-06	--	--	--	7E-06	Immune System	4E-01	--	--	4E-01
			Aroclor-1260	2E-05	--	--	--	2E-05	Immune System	1E+00	--	--	1E+00
			Dieldrin	1E-06	--	--	--	1E-06	Liver	3E-03	--	--	3E-03
			Antimony	N/A	--	--	--	N/A	Blood	2E-02	--	--	2E-02
			Lead										
			Mercury	N/A	--	--	--	N/A	Nervous System	3E-01	--	--	3E-01
			Selenium	N/A	--	--	--	N/A	Liver	1E-02	--	--	1E-02
			Chemical Total	3E-05	--	--	--	3E-05		2E+00	--	--	2E+00
			Radionuclide Total										
		Exposure Point Total						3E-05					2E+00
	Exposure Medium Total							3E-05					2E+00
Medium Total								3E-05					2E+00
Receptor Total								3E-05					2E+00

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-05

Total Hazard Across All Media: 2E+00

Total Skin HI =	N/A
Total Nervous System HI =	3E-01
Total Immune System HI =	1E+00
Total Kidney HI =	N/A
Total Blood HI =	2E-02
Total General Toxicity HI =	N/A
Total Liver HI =	2E-02
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	3E-02

TABLE 3-9.31.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Older Child + Adult					Non-Carcinogenic Hazard Quotient Older Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Fish Fillet Tissue	Reaches 4 and 5											
			4,4'-DDD	2E-08	--	--	--	2E-08	Immune System	3E-04	--	--	3E-04
			4,4'-DDE	1E-07	--	--	--	1E-07	Developmental	1E-02	--	--	1E-02
			4,4'-DDT	1E-08	--	--	--	1E-08	Liver	7E-04	--	--	7E-04
			Aldrin	4E-08	--	--	--	4E-08	Liver	7E-04	--	--	7E-04
			alpha-Chlordane	4E-09	--	--	--	4E-09	Liver	2E-04	--	--	2E-04
			Aroclor-1254	4E-07	--	--	--	4E-07	Immune System	2E-01	--	--	2E-01
			Aroclor-1260	9E-07	--	--	--	9E-07	Immune System	4E-01	--	--	4E-01
			Dieldrin	1E-07	--	--	--	1E-07	Liver	1E-03	--	--	1E-03
			Antimony	N/A	--	--	--	N/A	Blood	8E-03	--	--	8E-03
			Lead										
			Mercury	N/A	--	--	--	N/A	Nervous System	1E-01	--	--	1E-01
			Selenium	N/A	--	--	--	N/A	Liver	5E-03	--	--	5E-03
			Chemical Total	2E-06	--	--	--	2E-06		7E-01	--	--	7E-01
			Radionuclide Total										
		Exposure Point Total						2E-06					7E-01
	Exposure Medium Total							2E-06					7E-01
Medium Total								2E-06					7E-01
Receptor Total								2E-06					7E-01

-- = Not Evaluated

N/A = Not Applicable

Total Risk Across All Media: 2E-06

Total Hazard Across All Media: 7E-01

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

TABLE 3-9.32.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Older Child + Adult					Non-Carcinogenic Hazard Quotient Older Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Fish Fillet Tissue	Reach 6											
			4,4'-DDD	2E-07	--	--	--	2E-07	Immune System	1E-03	--	--	1E-03
			4,4'-DDE	8E-07	--	--	--	8E-07	Developmental	2E-02	--	--	2E-02
			4,4'-DDT	7E-08	--	--	--	7E-08	Liver	1E-03	--	--	1E-03
			Aldrin	4E-07	--	--	--	4E-07	Liver	2E-03	--	--	2E-03
			alpha-Chlordane	1E-07	--	--	--	1E-07	Liver	2E-03	--	--	2E-03
			Aroclor-1248	6E-07	--	--	--	6E-07	Immune System	4E-02	--	--	4E-02
			Aroclor-1254	1E-05	--	--	--	1E-05	Immune System	7E-01	--	--	7E-01
			Aroclor-1260	6E-06	--	--	--	6E-06	Immune System	4E-01	--	--	4E-01
			Dieldrin	2E-06	--	--	--	2E-06	Liver	5E-03	--	--	5E-03
			Heptachlor epoxide	2E-07	--	--	--	2E-07	Liver	4E-03	--	--	4E-03
			Arsenic	1E-05	--	--	--	1E-05	Skin	5E-02	--	--	5E-02
			Lead										
			Mercury	N/A	--	--	--	N/A	Nervous System	2E-01	--	--	2E-01
			Selenium	N/A	--	--	--	N/A	Liver	1E-02	--	--	1E-02
			Chemical Total	3E-05	--	--	--	3E-05		1E+00	--	--	1E+00
			Radionuclide Total										
		Exposure Point Total						3E-05					1E+00
	Exposure Medium Total							3E-05					1E+00
Medium Total								3E-05					1E+00
Receptor Total								3E-05					1E+00

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-05

Total Hazard Across All Media: 1E+00

Total Skin HI =	5E-02
Total Nervous System HI =	2E-01
Total Immune System HI =	1E+00
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	3E-02
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	2E-02

TABLE 3-9.32.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Older Child + Adult					Non-Carcinogenic Hazard Quotient Older Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Fish Fillet Tissue	Reach 6											
			4,4'-DDD	2E-08	--	--	--	2E-08	Immune System	4E-04	--	--	4E-04
			4,4'-DDE	9E-08	--	--	--	9E-08	Developmental	8E-03	--	--	8E-03
			4,4'-DDT	8E-09	--	--	--	8E-09	Liver	4E-04	--	--	4E-04
			Aldrin	4E-08	--	--	--	4E-08	Liver	7E-04	--	--	7E-04
			alpha-Chlordane	1E-08	--	--	--	1E-08	Liver	7E-04	--	--	7E-04
			Aroclor-1248	4E-08	--	--	--	4E-08	Immune System	2E-02	--	--	2E-02
			Aroclor-1254	6E-07	--	--	--	6E-07	Immune System	3E-01	--	--	3E-01
			Aroclor-1260	4E-07	--	--	--	4E-07	Immune System	2E-01	--	--	2E-01
			Dieldrin	2E-07	--	--	--	2E-07	Liver	2E-03	--	--	2E-03
			Heptachlor epoxide	2E-08	--	--	--	2E-08	Liver	2E-03	--	--	2E-03
			Arsenic	1E-06	--	--	--	1E-06	Skin	2E-02	--	--	2E-02
			Lead										
			Mercury	N/A	--	--	--	N/A	Nervous System	6E-02	--	--	6E-02
			Selenium	N/A	--	--	--	N/A	Liver	5E-03	--	--	5E-03
			Chemical Total	2E-06	--	--	--	2E-06		5E-01	--	--	5E-01
			Radionuclide Total										
		Exposure Point Total						2E-06					5E-01
	Exposure Medium Total							2E-06					5E-01
Medium Total								2E-06					5E-01
Receptor Total								2E-06					5E-01

-- = Not Evaluated

N/A = Not Applicable

Total Risk Across All Media: 2E-06

Total Hazard Across All Media: 5E-01

Total Skin HI =	2E-02
Total Nervous System HI =	6E-02
Total Immune System HI =	4E-01
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	1E-02
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	8E-03

TABLE 3-9.33.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Surface Water	Station NR (Reach 1)	Heptachlor epoxide	--	--	7E-09	--	7E-09	Liver	--	--	3E-04	3E-04
			Arsenic	--	--	4E-07	--	4E-07	Skin	--	--	4E-03	4E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	3E-03	3E-03
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	4E-02	4E-02
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	6E-03	6E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	8E-04	8E-04
			Chemical Total	--	--	4E-07	--	4E-07		--	--	6E-02	6E-02
			Radionuclide Total										
		Exposure Point Total						4E-07					6E-02
	Exposure Medium Total							4E-07					6E-02
Medium Total								4E-07					6E-02
Sediment	Sediment	Station NR	Arsenic	2E-05	--	7E-06	--	3E-05	Skin	3E-01	--	1E-01	5E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	8E-04	--	--	8E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	2E-03	--	5E-03	7E-03
			Chromium III	N/A	--	--	--	N/A	General Toxicity	2E-04	--	--	2E-04
			Copper	N/A	--	--	--	N/A	Kidney	1E-02	--	--	1E-02
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	3E-03	--	--	3E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	4E-02	--	--	4E-02
			Nickel	N/A	--	--	--	N/A	General Toxicity	7E-04	--	--	7E-04
			Vanadium	N/A	--	--	--	N/A	Kidney	3E-02	--	--	3E-02
			Zinc	N/A	--	--	--	N/A	Blood	2E-03	--	--	2E-03
			Chemical Total	2E-05	--	7E-06	--	3E-05		4E-01	--	1E-01	6E-01
			Radionuclide Total										
		Exposure Point Total						3E-05					6E-01
	Exposure Medium Total							3E-05					6E-01
Medium Total								3E-05					6E-01
Soil	Surface Soil	Station NR	Arsenic	3E-05	--	7E-06	--	4E-05	Skin	8E-01	--	1E-01	7E-01
			Cadmium	N/A	--	N/A	--	N/A	Kidney	2E-03	--	5E-03	7E-03
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	5E-02	--	--	5E-02
			Copper	N/A	--	--	--	N/A	Kidney	5E-03	--	--	5E-03
			Manganese	N/A	--	--	--	N/A	Nervous System	1E-02	--	--	1E-02
			Mercury	N/A	--	--	--	N/A	Nervous System	2E-02	--	--	2E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	2E-02	--	--	2E-02
			Zinc	N/A	--	--	--	N/A	Blood	2E-03	--	--	2E-03
			Chemical Total	3E-05	--	7E-06	--	4E-05		8E-01	--	1E-01	9E-01
			Radionuclide Total										
		Exposure Point Total						4E-05					9E-01
	Exposure Medium Total							4E-05					9E-01
Medium Total								4E-05					9E-01
Receptor Total								7E-05					1E+00

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 7E-05

Total Hazard Across All Media: 1E+00

Total Skin HI =	1E+00
Total Nervous System HI =	8E-02
Total Immune System HI =	8E-04
Total Kidney HI =	8E-02
Total Blood HI =	3E-03
Total General Toxicity HI =	8E-04
Total Liver HI =	3E-04
Total Gastrointestinal System HI =	1E-01
Total Cardiovascular HI =	8E-04
Total Developmental HI =	N/A

TABLE 3-8.33.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Surface Water	Station NR (Reach 1)	Heptachlor epoxide	--	--	8E-10	--	8E-10	Liver	--	--	9E-05	9E-05
			Arsenic	--	--	3E-08	--	3E-08	Skin	--	--	1E-03	1E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	1E-04	1E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	1E-02	1E-02
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	1E-03	1E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	2E-04	2E-04
			Chemical Total	--	--	3E-08	--	3E-08		--	--	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						3E-08					1E-02
	Exposure Medium Total							3E-08					1E-02
Medium Total								3E-08					1E-02
Sediment	Sediment	Station NR	Arsenic	2E-06	--	1E-08	--	3E-06	Skin	9E-02	--	6E-02	1E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	2E-04	--	--	2E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	5E-04	--	2E-03	3E-03
			Chromium III	N/A	--	--	--	N/A	General Toxicity	4E-05	--	--	4E-05
			Copper	N/A	--	--	--	N/A	Kidney	2E-03	--	--	2E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	8E-04	--	--	8E-04
			Mercury	N/A	--	--	--	N/A	Nervous System	1E-02	--	--	1E-02
			Nickel	N/A	--	--	--	N/A	General Toxicity	2E-04	--	--	2E-04
			Vanadium	N/A	--	--	--	N/A	Kidney	7E-03	--	--	7E-03
			Zinc	N/A	--	--	--	N/A	Blood	4E-04	--	--	4E-04
			Chemical Total	2E-06	--	1E-06	--	3E-06		1E-01	--	6E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						3E-06					2E-01
	Exposure Medium Total							3E-06					2E-01
Medium Total								3E-06					2E-01
Soil	Surface Soil	Station NR	Arsenic	3E-06	--	1E-08	--	4E-06	Skin	2E-01	--	9E-02	2E-01
			Cadmium	N/A	--	N/A	--	N/A	Kidney	9E-04	--	2E-03	3E-03
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	1E-02	--	--	1E-02
			Copper	N/A	--	--	--	N/A	Kidney	1E-03	--	--	1E-03
			Manganese	N/A	--	--	--	N/A	Nervous System	1E-03	--	--	1E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	2E-03	--	--	2E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	6E-03	--	--	6E-03
			Zinc	N/A	--	--	--	N/A	Blood	4E-04	--	--	4E-04
			Chemical Total	3E-06	--	1E-06	--	4E-06		2E-01	--	6E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						4E-06					2E-01
	Exposure Medium Total							4E-06					2E-01
Medium Total								4E-06					2E-01
Receptor Total								7E-06					4E-01

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 7E-06

Total Hazard Across All Media: 4E-01

Total Skin HI =	4E-01
Total Nervous System HI =	2E-02
Total Immune System HI =	2E-04
Total Kidney HI =	2E-02
Total Blood HI =	8E-04
Total General Toxicity HI =	2E-04
Total Liver HI =	9E-05
Total Gastrointestinal System HI =	2E-02
Total Cardiovascular HI =	2E-04
Total Developmental HI =	N/A

TABLE 3-9.34.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult: Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Non-Carcinogenic Hazard Quotient Young Child: Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 14 (Reach 1)	Heptachlor epoxide	--	--	7E-09	--	7E-09	Liver	--	--	3E-04	3E-04
			Arsenic	--	--	4E-07	--	4E-07	Skin	--	--	4E-03	4E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	3E-03	3E-03
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	4E-02	4E-02
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	6E-03	6E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	8E-04	8E-04
			Chemical Total	--	--	4E-07	--	4E-07		--	--	6E-02	6E-02
			Radionuclide Total										
		Exposure Point Total						4E-07					6E-02
	Exposure Medium Total							4E-07					6E-02
Medium Total								4E-07					6E-02
Sediment	Sediment	Station 14											
			Benzo(a)anthracene	9E-08	--	6E-08	--	2E-07	N/A	N/A	--	N/A	N/A
			Benzo(a)pyrene	8E-07	--	6E-07	--	1E-06	N/A	N/A	--	N/A	N/A
			Benzo(b)fluoranthene	2E-07	--	1E-07	--	3E-07	N/A	N/A	--	N/A	N/A
			Benzo(k)fluoranthene	9E-09	--	8E-09	--	2E-08	N/A	N/A	--	N/A	N/A
			Phenanthrene	N/A	--	N/A	--	N/A	General Toxicity	1E-04	--	9E-05	2E-04
			Antimony	N/A	--	--	--	N/A	Blood	2E-03	--	--	2E-03
			Arsenic	7E-06	--	2E-06	--	9E-06	Skin	1E-01	--	4E-02	2E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	2E-04	--	--	2E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	9E-04	--	2E-03	3E-03
			Chromium III	N/A	--	--	--	N/A	General Toxicity	1E-04	--	--	1E-04
			Copper	N/A	--	--	--	N/A	Kidney	2E-03	--	--	2E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	2E-03	--	--	2E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	1E-02	--	--	1E-02
			Nickel	N/A	--	--	--	N/A	General Toxicity	5E-04	--	--	5E-04
			Thallium	N/A	--	--	--	N/A	Blood	1E-02	--	--	1E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	1E-02	--	--	1E-02
			Zinc	N/A	--	--	--	N/A	Blood	9E-04	--	--	9E-04
			Chemical Total	8E-06	--	3E-06	--	1E-05		2E-01	--	4E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						1E-05					2E-01
	Exposure Medium Total							1E-05					2E-01
Medium Total								1E-05					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

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

TABLE 3-9.34 CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult: Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Non-Carcinogenic Hazard Quotient Young Child: Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 14 (Reach 1)	Heptachlor epoxide	--	--	8E-10	--	8E-10	Liver	--	--	9E-05	9E-05
			Arsenic	--	--	3E-08	--	3E-08	Skin	--	--	1E-03	1E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	1E-04	1E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	1E-02	1E-02
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	1E-03	1E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	2E-04	2E-04
			Chemical Total	--	--	3E-08	--	3E-08		--	--	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						3E-08					1E-02
	Exposure Medium Total							3E-08					1E-02
Medium Total								3E-08					1E-02
Sediment	Sediment	Station 14											
			Benzo(a)anthracene	7E-09	--	1E-08	--	2E-08	N/A	N/A	--	N/A	N/A
			Benzo(a)pyrene	6E-08	--	1E-07	--	2E-07	N/A	N/A	--	N/A	N/A
			Benzo(b)fluoranthene	1E-08	--	2E-08	--	3E-08	N/A	N/A	--	N/A	N/A
			Benzo(k)fluoranthene	7E-10	--	1E-09	--	2E-09	N/A	N/A	--	N/A	N/A
			Phenanthrene	N/A	--	N/A	--	N/A	General Toxicity	2E-05	--	3E-05	4E-05
			Antimony	N/A	--	--	--	N/A	Blood	5E-04	--	--	5E-04
			Arsenic	4E-07	--	3E-07	--	8E-07	Skin	2E-02	--	2E-02	4E-02
			Barium	N/A	--	--	--	N/A	Cardiovascular	5E-05	--	--	5E-05
			Cadmium	N/A	--	N/A	--	N/A	Kidney	2E-04	--	7E-04	6E-04
			Chromium III	N/A	--	--	--	N/A	General Toxicity	2E-05	--	--	2E-05
			Copper	N/A	--	--	--	N/A	Kidney	5E-04	--	--	5E-04
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	4E-04	--	--	4E-04
			Mercury	N/A	--	--	--	N/A	Nervous System	1E-03	--	--	1E-03
			Nickel	N/A	--	--	--	N/A	General Toxicity	9E-05	--	--	9E-05
			Thallium	N/A	--	--	--	N/A	Blood	1E-03	--	--	1E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	3E-03	--	--	3E-03
			Zinc	N/A	--	--	--	N/A	Blood	2E-04	--	--	2E-04
			Chemical Total	5E-07	--	4E-07	--	1E-06		3E-02	--	2E-02	5E-02
			Radionuclide Total										
		Exposure Point Total						1E-06					5E-02
	Exposure Medium Total							1E-06					5E-02
Medium Total								1E-06					5E-02
Receptor Total								1E-06					6E-02

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-06

Total Hazard Across All Media: 6E-02

Total Skin HI =	4E-02
Total Nervous System HI =	3E-03
Total Immune System HI =	2E-04
Total Kidney HI =	4E-03
Total Blood HI =	2E-03
Total General Toxicity HI =	1E-04
Total Liver HI =	9E-05
Total Gastrointestinal System HI =	1E-02
Total Cardiovascular HI =	5E-05
Total Developmental HI =	N/A

TABLE 3-9.35.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Surface Water	Station 22/TT-22 (Reach 1)	Heptachlor epoxide	--	--	1E-08	--	1E-08	Liver	--	--	4E-04	4E-04
			Arsenic	--	--	7E-07	--	7E-07	Skin	--	--	6E-03	6E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	4E-03	4E-03
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	8E-02	6E-02
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	8E-03	8E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	1E-03	1E-03
			Chemical Total	--	--	7E-07	--	7E-07		--	--	8E-02	8E-02
			Radionuclide Total										
		Exposure Point Total						7E-07					8E-02
	Exposure Medium Total							7E-07					8E-02
Medium Total								7E-07					8E-02
Sediment	Sediment	Station 22/TT-22	Tetrachloroethene	3E-07	--	--	--	3E-07	Liver	4E-04	--	--	4E-04
			Trichloroethene	5E-08	--	--	--	5E-08	Liver	3E-03	--	--	3E-03
			Benzo(a)anthracene	4E-08	--	3E-08	--	7E-08	N/A	N/A	--	N/A	N/A
			Benzo(a)pyrene	3E-07	--	2E-07	--	5E-07	N/A	N/A	--	N/A	N/A
			Benzo(b)fluoranthene	6E-08	--	5E-08	--	1E-07	N/A	N/A	--	N/A	N/A
			Benzo(k)fluoranthene	7E-09	--	6E-09	--	1E-08	N/A	N/A	--	N/A	N/A
			Dibenz(a,h)anthracene	6E-08	--	5E-08	--	1E-07	N/A	N/A	--	N/A	N/A
			Indeno(1,2,3-cd)pyrene	3E-08	--	2E-08	--	5E-08	N/A	N/A	--	N/A	N/A
			Phenanthrene	N/A	--	N/A	--	N/A	General Toxicity	3E-05	--	3E-05	6E-05
			Aroclor 1260	1E-08	--	9E-09	--	2E-08	Immune System	2E-03	--	2E-03	4E-03
			Antimony	N/A	--	--	--	N/A	Blood	1E+00	--	--	1E+00
			Arsenic	1E-05	--	4E-06	--	1E-05	Skin	2E-01	--	8E-02	2E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	1E-03	--	--	1E-03
			Cadmium	N/A	--	N/A	--	N/A	Kidney	2E-03	--	5E-03	7E-03
			Chromium III	N/A	--	--	--	N/A	General Toxicity	6E-05	--	--	6E-05
			Copper	N/A	--	--	--	N/A	Kidney	1E-03	--	--	1E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	2E-03	--	--	2E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	7E-03	--	--	7E-03
			Nickel	N/A	--	--	--	N/A	General Toxicity	8E-04	--	--	8E-04
			Vanadium	N/A	--	--	--	N/A	Kidney	6E-02	--	--	8E-02
			Zinc	N/A	--	--	--	N/A	Blood	5E-04	--	--	5E-04
			Chemical Total	1E-05	--	4E-06	--	2E-05		1E+00	--	7E-02	2E+00
			Radionuclide Total										
		Exposure Point Total						2E-05					2E+00
	Exposure Medium Total							2E-05					2E+00
Medium Total								2E-05					2E+00
Receptor Total								2E-05					2E+00

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-05

Using the MADEP slope factor for PCE, the risk for this receptor would change to: 2E-05
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 Hazard Across All Media: 2E+00

Total Skin HI = 3E-01
Total Nervous System HI = 2E-02
Total Immune System HI = 5E-03
Total Kidney HI = 7E-02
Total Blood HI = 1E+00
Total General Toxicity HI = 9E-04
Total Liver HI = 4E-03
Total Gastrointestinal System HI = 6E-02
Total Cardiovascular HI = 1E-03
Total Developmental HI = N/A

TABLE 3-8.35.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult: Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Non-Carcinogenic Hazard Quotient Young Child: Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 22/TT-22 (Reach 1)	Heptachlor epoxide	--	--	8E-10	--	8E-10	Liver	--	--	9E-05	9E-05
			Arsenic	--	--	3E-08	--	3E-08	Skin	--	--	1E-03	1E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	1E-04	1E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	1E-02	1E-02
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	1E-03	1E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	2E-04	2E-04
			Chemical Total	--	--	3E-08	--	3E-08		--	--	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						3E-08					1E-02
	Exposure Medium Total							3E-08					1E-02
Medium Total								3E-08					1E-02
Sediment	Sediment	Station 22/TT-22	Tetrachloroethene	1E-08	--	--	--	1E-08	Liver	7E-05	--	--	7E-05
			Trichloroethene	3E-09	--	--	--	3E-09	Liver	9E-04	--	--	6E-04
			Benzo(a)anthracene	2E-09	--	3E-09	--	5E-09	N/A	N/A	--	N/A	N/A
			Benzo(a)pyrene	1E-08	--	2E-08	--	4E-08	N/A	N/A	--	N/A	N/A
			Benzo(b)fluoranthene	3E-09	--	4E-09	--	7E-09	N/A	N/A	--	N/A	N/A
			Benzo(k)fluoranthene	3E-10	--	5E-10	--	8E-10	N/A	N/A	--	N/A	N/A
			Dibenz(a,h)anthracene	3E-09	--	5E-09	--	8E-09	N/A	N/A	--	N/A	N/A
			Indeno(1,2,3-cd)pyrene	1E-09	--	2E-09	--	4E-09	N/A	N/A	--	N/A	N/A
			Phenanthrene	N/A	--	N/A	--	N/A	General Toxicity	5E-06	--	7E-06	1E-05
			Aroclor 1260	3E-10	--	5E-10	--	7E-10	Immune System	3E-04	--	5E-04	9E-04
			Antimony	N/A	--	--	--	N/A	Blood	4E-02	--	--	4E-02
			Arsenic	6E-07	--	4E-07	--	1E-06	Skin	3E-02	--	2E-02	5E-02
			Barium	N/A	--	--	--	N/A	Cardiovascular	2E-04	--	--	2E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	3E-04	--	2E-03	2E-03
			Chromium III	N/A	--	--	--	N/A	General Toxicity	1E-05	--	--	1E-05
			Copper	N/A	--	--	--	N/A	Kidney	2E-04	--	--	2E-04
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	4E-04	--	--	4E-04
			Mercury	N/A	--	--	--	N/A	Nervous System	1E-03	--	--	1E-03
			Nickel	N/A	--	--	--	N/A	General Toxicity	1E-04	--	--	1E-04
			Vanadium	N/A	--	--	--	N/A	Kidney	1E-02	--	--	1E-02
			Zinc	N/A	--	--	--	N/A	Blood	8E-05	--	--	8E-05
			Chemical Total	6E-07	--	4E-07	--	1E-06		8E-02	--	2E-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

Using the MADEP slope factor for PCE, the risk for this receptor would change to: 1E-06
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 Hazard Across All Media: 1E-01

Total Skin HI =	5E-02
Total Nervous System HI =	3E-03
Total Immune System HI =	1E-03
Total Kidney HI =	1E-02
Total Blood HI =	4E-02
Total General Toxicity HI =	2E-04
Total Liver HI =	7E-04
Total Gastrointestinal System HI =	1E-02
Total Cardiovascular HI =	2E-04
Total Developmental HI =	N/A

TABLE 3-9.36.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult: Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Non-Carcinogenic Hazard Quotient Young Child: Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 13/TT-27 (Reach 1)	Heptachlor epoxide	--	--	1E-08	--	1E-08	Liver	--	--	4E-04	4E-04
			Arsenic	--	--	7E-07	--	7E-07	Skin	--	--	6E-03	6E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	4E-03	4E-03
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	9E-02	6E-02
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	8E-03	6E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	1E-03	1E-03
			Chemical Total	--	--	7E-07	--	7E-07		--	--	8E-02	8E-02
			Radionuclide Total										
		Exposure Point Total						7E-07					8E-02
	Exposure Medium Total							7E-07					8E-02
Medium Total								7E-07					8E-02
Sediment	Sediment	Station 13/TT-27	Trichloroethene	3E-08	--	--	--	3E-08	Liver	2E-04	--	--	2E-04
			Benzo(a)anthracene	2E-07	--	1E-07	--	3E-07	N/A	N/A	--	N/A	N/A
			Benzo(a)pyrene	2E-06	--	1E-06	--	3E-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
			Benzo(k)fluoranthene	3E-08	--	2E-08	--	5E-08	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	1E-07	--	9E-08	--	2E-07	N/A	N/A	--	N/A	N/A
			Phenanthrene	N/A	--	N/A	--	N/A	General Toxicity	1E-04	--	9E-05	2E-04
			Aroclor 1254	2E-08	--	N/A	--	2E-08	Immune System	3E-03	--	3E-03	6E-03
			Aroclor 1260	1E-07	--	1E-07	--	2E-07	Immune System	2E-02	--	2E-02	4E-02
			Antimony	N/A	--	--	--	N/A	Blood	2E-01	--	--	2E-01
			Arsenic	5E-04	--	2E-04	--	7E-04	Skin	9E+00	--	3E+00	1E+01
			Barium	N/A	--	--	--	N/A	Cardiovascular	5E-03	--	--	5E-03
			Cadmium	N/A	--	N/A	--	N/A	Kidney	1E-02	--	3E-02	4E-02
			Chromium III	N/A	--	--	--	N/A	General Toxicity	5E-04	--	--	5E-04
			Copper	N/A	--	--	--	N/A	Kidney	6E-02	--	--	6E-02
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	2E-02	--	--	2E-02
			Mercury	N/A	--	--	--	N/A	Nervous System	3E-01	--	--	3E-01
			Nickel	N/A	--	--	--	N/A	General Toxicity	2E-03	--	--	2E-03
			Thallium	N/A	--	--	--	N/A	Blood	7E-02	--	--	7E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	1E-01	--	--	1E-01
			Zinc	N/A	--	--	--	N/A	Blood	1E-02	--	--	1E-02
			Chemical Total	6E-04	--	2E-04	--	7E-04		1E+01	--	3E+00	1E+01
			Radionuclide Total										
		Exposure Point Total						7E-04					1E+01
	Exposure Medium Total							7E-04					1E+01
Medium Total								7E-04					1E+01
Receptor Total								7E-04					1E+01

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 7E-04

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-04
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 7E-04
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 7E-04

Total Skin HI =	1E+01
Total Nervous System HI =	3E-01
Total Immune System HI =	5E-02
Total Kidney HI =	2E-01
Total Blood HI =	3E-01
Total General Toxicity HI =	3E-03
Total Liver HI =	6E-04
Total Gastrointestinal System HI =	6E-02
Total Cardiovascular HI =	5E-03
Total Developmental HI =	N/A

TABLE 3-9.34 CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult: Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Non-Carcinogenic Hazard Quotient Young Child: Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 13/TT-27 (Reach 1)	Heptachlor epoxide	--	--	8E-10	--	8E-10	Liver	--	--	9E-05	9E-05
			Arsenic	--	--	3E-08	--	3E-08	Skin	--	--	1E-03	1E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	1E-04	1E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	1E-02	1E-02
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	1E-03	1E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	2E-04	2E-04
			Chemical Total	--	--	3E-08	--	3E-08		--	--	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						3E-08					1E-02
	Exposure Medium Total							3E-08					1E-02
Medium Total								3E-08					1E-02
Sediment	Sediment	Station 13/TT-27	Trichloroethene	8E-11	--	--	--	8E-11	Liver	2E-05	--	--	2E-05
			Benzo(a)anthracene	9E-09	--	1E-08	--	2E-08	N/A	N/A	--	N/A	N/A
			Benzo(a)pyrene	9E-08	--	1E-07	--	2E-07	N/A	N/A	--	N/A	N/A
			Benzo(b)fluoranthene	2E-08	--	3E-08	--	5E-08	N/A	N/A	--	N/A	N/A
			Benzo(k)fluoranthene	2E-09	--	2E-09	--	4E-09	N/A	N/A	--	N/A	N/A
			Dibenz(a,h)anthracene	2E-08	--	3E-08	--	5E-08	N/A	N/A	--	N/A	N/A
			Indeno(1,2,3-cd)pyrene	8E-09	--	1E-08	--	2E-08	N/A	N/A	--	N/A	N/A
			Phenanthrene	N/A	--	N/A	--	N/A	General Toxicity	2E-05	--	3E-05	5E-05
			Aroclor 1254	1E-10	--	3E-10	--	4E-10	Immune System	2E-04	--	3E-04	5E-04
			Aroclor 1260	2E-08	--	3E-08	--	4E-08	Immune System	2E-03	--	3E-03	5E-03
			Antimony	N/A	--	--	--	N/A	Blood	8E-03	--	--	8E-03
			Arsenic	3E-05	--	2E-05	--	5E-05	Skin	1E+00	--	1E+00	2E+00
			Barium	N/A	--	--	--	N/A	Cardiovascular	8E-04	--	--	8E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	2E-03	--	1E-02	1E-02
			Chromium III	N/A	--	--	--	N/A	General Toxicity	9E-05	--	--	9E-05
			Copper	N/A	--	--	--	N/A	Kidney	1E-02	--	--	1E-02
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	3E-03	--	--	3E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	1E-02	--	--	1E-02
			Nickel	N/A	--	--	--	N/A	General Toxicity	4E-04	--	--	4E-04
			Thallium	N/A	--	--	--	N/A	Blood	3E-03	--	--	3E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	2E-02	--	--	2E-02
			Zinc	N/A	--	--	--	N/A	Blood	2E-03	--	--	2E-03
			Chemical Total	3E-05	--	2E-05	--	5E-05		2E+00	--	1E+00	3E+00
			Radionuclide Total										
		Exposure Point Total						5E-05					3E+00
	Exposure Medium Total							5E-05					3E+00
Medium Total								5E-05					3E+00
Receptor Total								5E-05					3E+00

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 5E-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: 5E-05
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 5E-05
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 5E-05

Total Skin HI =	2E+00
Total Nervous System HI =	2E-02
Total Immune System HI =	6E-03
Total Kidney HI =	5E-02
Total Blood HI =	1E-02
Total General Toxicity HI =	5E-04
Total Liver HI =	1E-04
Total Gastrointestinal System HI =	1E-02
Total Cardiovascular HI =	8E-04
Total Developmental HI =	N/A

TABLE 3-8.37 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Surface Water	Station WH (Reach 1)	Heptachlor epoxide	--	--	1E-08	--	1E-08	Liver	--	--	4E-04	4E-04
			Arsenic	--	--	7E-07	--	7E-07	Skin	--	--	8E-03	8E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	4E-03	4E-03
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	6E-02	6E-02
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	8E-03	8E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	1E-03	1E-03
			Chemical Total	--	--	7E-07	--	7E-07		--	--	8E-02	8E-02
			Radionuclide Total										
		Exposure Point Total						7E-07					8E-02
	Exposure Medium Total							7E-07					8E-02
Medium Total								7E-07					8E-02
Sediment	Sediment	Station WH	Trichloroethene	4E-09	--	--	--	4E-09	Liver	3E-04	--	--	3E-04
			Benzo(a)anthracene	7E-08	--	6E-08	--	1E-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
			Benzo(k)fluoranthene	9E-09	--	8E-08	--	2E-06	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	9E-08	--	8E-08	--	2E-07	N/A	N/A	--	N/A	N/A
			Phenanthrene	N/A	--	N/A	--	N/A	General Toxicity	4E-05	--	3E-05	7E-05
			Aroclor 1260	2E-08	--	2E-06	--	4E-06	Immune System	4E-03	--	3E-03	7E-03
			Antimony	N/A	--	--	--	N/A	Blood	1E-01	--	--	1E-01
			Arsenic	3E-04	--	9E-05	--	4E-04	Skin	6E+00	--	2E+00	8E+00
			Barium	N/A	--	--	--	N/A	Cardiovascular	2E-03	--	--	2E-03
			Cadmium	N/A	--	N/A	--	N/A	Kidney	2E-02	--	3E-02	5E-02
			Chromium III	N/A	--	--	--	N/A	General Toxicity	1E-03	--	--	1E-03
			Copper	N/A	--	--	--	N/A	Kidney	6E-02	--	--	6E-02
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	1E-02	--	--	1E-02
			Mercury	N/A	--	--	--	N/A	Nervous System	4E-01	--	--	4E-01
			Nickel	N/A	--	--	--	N/A	General Toxicity	3E-03	--	--	3E-03
			Thallium	N/A	--	--	--	N/A	Blood	1E-02	--	--	1E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	1E-01	--	--	1E-01
			Zinc	N/A	--	--	--	N/A	Blood	1E-02	--	--	1E-02
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	7E-04	--	--	7E-04
			Chemical Total	3E-04	--	1E-04	--	4E-04		8E+00	--	2E+00	7E+00
			Radionuclide Total										
		Exposure Point Total						4E-04					7E+00
	Exposure Medium Total							4E-04					7E+00
Medium Total								4E-04					7E+00
Receptor Total								4E-04					7E+00

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 4E-04

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 4E-04
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 4E-04
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 4E-04

Total Hazard Across All Media: 7E+00

Total Skin HI =	6E+00
Total Nervous System HI =	4E-01
Total Immune System HI =	9E-03
Total Kidney HI =	2E-01
Total Blood HI =	1E-01
Total General Toxicity HI =	4E-03
Total Liver HI =	7E-04
Total Gastrointestinal System HI =	6E-02
Total Cardiovascular HI =	2E-03
Total Developmental HI =	N/A

TABLE 3-8.37.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult: Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Non-Carcinogenic Hazard Quotient Young Child: Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station WH (Reach 1)	Heptachlor epoxide	--	--	8E-10	--	8E-10	Liver	--	--	9E-05	9E-05
			Arsenic	--	--	3E-08	--	3E-08	Skin	--	--	1E-03	1E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	1E-04	1E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	1E-02	1E-02
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	1E-03	1E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	2E-04	2E-04
			Chemical Total	--	--	3E-08	--	3E-08		--	--	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						3E-08					1E-02
	Exposure Medium Total							3E-08					1E-02
Medium Total								3E-08					1E-02
Sediment	Sediment	Station WH	Trichloroethene	2E-10	--	--	--	2E-10	Liver	4E-05	--	--	4E-05
			Benzo(a)anthracene	3E-09	--	5E-09	--	8E-08	N/A	N/A	--	N/A	N/A
			Benzo(a)pyrene	7E-08	--	1E-07	--	2E-07	N/A	N/A	--	N/A	N/A
			Benzo(b)fluoranthene	9E-09	--	1E-08	--	2E-08	N/A	N/A	--	N/A	N/A
			Benzo(k)fluoranthene	5E-10	--	8E-10	--	1E-09	N/A	N/A	--	N/A	N/A
			Dibenz(a,h)anthracene	2E-08	--	3E-08	--	6E-08	N/A	N/A	--	N/A	N/A
			Indeno(1,2,3-cd)pyrene	4E-09	--	6E-09	--	9E-09	N/A	N/A	--	N/A	N/A
			Phenanthrene	N/A	--	N/A	--	N/A	General Toxicity	5E-06	--	8E-06	1E-05
			Aroclor 1260	4E-10	--	7E-10	--	1E-09	Immune System	5E-04	--	8E-04	1E-03
			Antimony	N/A	--	--	--	N/A	Blood	2E-02	--	--	2E-02
			Arsenic	1E-05	--	1E-05	--	2E-05	Skin	8E-01	--	5E-01	1E+00
			Barium	N/A	--	--	--	N/A	Cardiovascular	3E-04	--	--	3E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	3E-03	--	1E-02	1E-02
			Chromium III	N/A	--	--	--	N/A	General Toxicity	2E-04	--	--	2E-04
			Copper	N/A	--	--	--	N/A	Kidney	9E-03	--	--	9E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	2E-03	--	--	2E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	7E-02	--	--	7E-02
			Nickel	N/A	--	--	--	N/A	General Toxicity	5E-04	--	--	5E-04
			Thallium	N/A	--	--	--	N/A	Blood	2E-03	--	--	2E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	2E-02	--	--	2E-02
			Zinc	N/A	--	--	--	N/A	Blood	2E-03	--	--	2E-03
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	1E-04	--	--	1E-04
			Chemical Total	1E-05	--	1E-05	--	2E-05		8E-01	--	5E-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

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 Skin HI =	1E+00
Total Nervous System HI =	7E-02
Total Immune System HI =	1E-03
Total Kidney HI =	5E-02
Total Blood HI =	2E-02
Total General Toxicity HI =	7E-04
Total Liver HI =	1E-04
Total Gastrointestinal System HI =	1E-04
Total Cardiovascular HI =	3E-04
Total Developmental HI =	N/A

TABLE 3-8.3B RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult: Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Non-Carcinogenic Hazard Quotient Young Child: Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station NT-1 (Reach 1)	Heptachlor epoxide	--	--	1E-06	--	1E-06	Liver	--	--	4E-04	4E-04
			Arsenic	--	--	7E-07	--	7E-07	Skin	--	--	8E-03	8E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	4E-03	4E-03
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	8E-02	8E-02
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	8E-03	8E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	1E-03	1E-03
			Chemical Total	--	--	7E-07	--	7E-07		--	--	8E-02	8E-02
			Radionuclide Total										
		Exposure Point Total						7E-07					8E-02
	Exposure Medium Total							7E-07					8E-02
Medium Total								7E-07					8E-02
Sediment	Sediment	Station NT-1	Trichloroethene	4E-09	--	--	--	4E-09	Liver	3E-04	--	--	3E-04
			Benzo(a)anthracene	6E-08	--	5E-06	--	1E-07	N/A	N/A	--	N/A	N/A
			Benzo(a)pyrene	1E-06	--	9E-07	--	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
			Benzo(k)fluoranthene	1E-08	--	1E-08	--	2E-08	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	9E-08	--	6E-08	--	2E-07	N/A	N/A	--	N/A	N/A
			Phenanthrene	N/A	--	N/A	--	N/A	General Toxicity	4E-05	--	3E-05	7E-05
			Aroclor 1260	2E-06	--	2E-06	--	4E-06	Immune System	4E-03	--	3E-03	7E-03
			Antimony	N/A	--	--	--	N/A	Blood	5E-02	--	--	5E-02
			Arsenic	3E-04	--	1E-04	--	5E-04	Skin	6E+00	--	2E+00	8E+00
			Barium	N/A	--	--	--	N/A	Cardiovascular	2E-03	--	--	2E-03
			Cadmium	N/A	--	N/A	--	N/A	Kidney	1E-02	--	3E-02	4E-02
			Chromium III	N/A	--	--	--	N/A	General Toxicity	1E-03	--	--	1E-03
			Copper	N/A	--	--	--	N/A	Kidney	4E-02	--	--	4E-02
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	2E-02	--	--	2E-02
			Mercury	N/A	--	--	--	N/A	Nervous System	7E-02	--	--	7E-02
			Nickel	N/A	--	--	--	N/A	General Toxicity	3E-03	--	--	3E-03
			Thallium	N/A	--	--	--	N/A	Blood	2E-01	--	--	2E-01
			Vanadium	N/A	--	--	--	N/A	Kidney	1E-01	--	--	1E-01
			Zinc	N/A	--	--	--	N/A	Blood	8E-03	--	--	8E-03
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	9E-04	--	--	9E-04
			Chemical Total	3E-04	--	1E-04	--	5E-04		6E+00	--	2E+00	9E+00
			Radionuclide Total										
		Exposure Point Total						5E-04					9E+00
	Exposure Medium Total							5E-04					9E+00
Medium Total								5E-04					9E+00
Receptor Total								5E-04					9E+00

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 5E-04

Total Hazard Across All Media: 9E+00

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 5E-04
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 5E-04
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 5E-04

Total Skin HI =	8E+00
Total Nervous System HI =	1E-01
Total Immune System HI =	9E-03
Total Kidney HI =	2E-01
Total Blood HI =	3E-01
Total General Toxicity HI =	4E-03
Total Liver HI =	7E-04
Total Gastrointestinal System HI =	8E-02
Total Cardiovascular HI =	2E-03
Total Developmental HI =	N/A

TABLE 3-8.38 CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult: Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Non-Carcinogenic Hazard Quotient Young Child: Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station NT-1 (Reach 1)	Heptachlor epoxide	--	--	9E-10	--	9E-10	Liver	--	--	9E-05	9E-05
			Arsenic	--	--	3E-08	--	3E-08	Skin	--	--	1E-03	1E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	1E-04	1E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	1E-02	1E-02
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	1E-03	1E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	2E-04	2E-04
			Chemical Total	--	--	3E-08	--	3E-08		--	--	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						3E-08					1E-02
	Exposure Medium Total							3E-08					1E-02
Medium Total								3E-08					1E-02
Sediment	Sediment	Station NT-1	Trichloroethene	2E-10	--	--	--	2E-10	Liver	4E-05	--	--	4E-05
			Benzo(a)anthracene	3E-09	--	6E-09	--	9E-09	N/A	N/A	--	N/A	N/A
			Benzo(a)pyrene	6E-08	--	1E-07	--	2E-07	N/A	N/A	--	N/A	N/A
			Benzo(b)fluoranthene	1E-08	--	2E-08	--	3E-08	N/A	N/A	--	N/A	N/A
			Benzo(k)fluoranthene	4E-10	--	8E-10	--	1E-09	N/A	N/A	--	N/A	N/A
			Dibenz(a,h)anthracene	1E-08	--	2E-08	--	3E-08	N/A	N/A	--	N/A	N/A
			Indeno(1,2,3-cd)pyrene	2E-09	--	3E-09	--	6E-09	N/A	N/A	--	N/A	N/A
			Phenanthrene	N/A	--	N/A	--	N/A	General Toxicity	4E-06	--	5E-06	9E-06
			Aroclor 1260	3E-10	--	5E-10	--	7E-10	Immune System	3E-04	--	5E-04	8E-04
			Antimony	N/A	--	--	--	N/A	Blood	9E-03	--	--	9E-03
			Arsenic	2E-05	--	1E-05	--	3E-05	Skin	1E+00	--	7E-01	2E+00
			Barium	N/A	--	--	--	N/A	Cardiovascular	4E-04	--	--	4E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	2E-03	--	9E-03	1E-02
			Chromium III	N/A	--	--	--	N/A	General Toxicity	2E-04	--	--	2E-04
			Copper	N/A	--	--	--	N/A	Kidney	7E-03	--	--	7E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	4E-03	--	--	4E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	1E-02	--	--	1E-02
			Nickel	N/A	--	--	--	N/A	General Toxicity	5E-04	--	--	5E-04
			Thallium	N/A	--	--	--	N/A	Blood	3E-02	--	--	3E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	2E-02	--	--	2E-02
			Zinc	N/A	--	--	--	N/A	Blood	1E-03	--	--	1E-03
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	2E-04	--	--	2E-04
			Chemical Total	2E-05	--	1E-05	--	3E-05		1E+00	--	7E-01	2E+00
			Radionuclide Total										
		Exposure Point Total						3E-05					2E+00
	Exposure Medium Total							3E-05					2E+00
Medium Total								3E-05					2E+00
Receptor Total								3E-05					2E+00

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-05

Total Hazard Across All Media: 2E+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 Skin HI =	2E+00
Total Nervous System HI =	2E-02
Total Immune System HI =	1E-03
Total Kidney HI =	3E-02
Total Blood HI =	4E-02
Total General Toxicity HI =	7E-04
Total Liver HI =	1E-04
Total Gastrointestinal System HI =	1E-02
Total Cardiovascular HI =	4E-04
Total Developmental HI =	N/A

TABLE 3-9.38 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult: Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Non-Carcinogenic Hazard Quotient Young Child: Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station NT-2 (Reach 1)	Heptachlor epoxide	--	--	1E-08	--	1E-08	Liver	--	--	4E-04	4E-04
			Arsenic	--	--	7E-07	--	7E-07	Skin	--	--	6E-03	6E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	4E-03	4E-03
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	6E-02	6E-02
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	8E-03	8E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	1E-03	1E-03
			Chemical Total	--	--	7E-07	--	7E-07		--	--	8E-02	8E-02
			Radionuclide Total										
		Exposure Point Total						7E-07					8E-02
	Exposure Medium Total							7E-07					8E-02
Medium Total								7E-07					8E-02
Sediment	Sediment	Station NT-2	Trichloroethene	4E-09	--	--	--	4E-09	Liver	3E-04	--	--	3E-04
			Benzo(a)anthracene	5E-08	--	4E-08	--	1E-07	N/A	N/A	--	N/A	N/A
			Benzo(a)pyrene	1E-08	--	1E-08	--	2E-08	N/A	N/A	--	N/A	N/A
			Benzo(b)fluoranthene	1E-07	--	1E-07	--	3E-07	N/A	N/A	--	N/A	N/A
			Benzo(k)fluoranthene	9E-08	--	9E-09	--	2E-08	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	9E-08	--	8E-08	--	2E-07	N/A	N/A	--	N/A	N/A
			Phenanthrene	N/A	--	N/A	--	N/A	General Toxicity	4E-05	--	3E-05	7E-05
			Aroclor 1260	2E-06	--	2E-06	--	4E-06	Immune System	4E-03	--	3E-03	7E-03
			Antimony	N/A	--	--	--	N/A	Blood	5E-02	--	--	5E-02
			Arsenic	2E-04	--	9E-05	--	3E-04	Skin	4E+00	--	1E+00	6E+00
			Barium	N/A	--	--	--	N/A	Cardiovascular	2E-03	--	--	2E-03
			Cadmium	N/A	--	N/A	--	N/A	Kidney	9E-03	--	2E-02	3E-02
			Chromium III	N/A	--	--	--	N/A	General Toxicity	9E-04	--	--	9E-04
			Copper	N/A	--	--	--	N/A	Kidney	4E-02	--	--	4E-02
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	2E-02	--	--	2E-02
			Mercury	N/A	--	--	--	N/A	Nervous System	8E-02	--	--	8E-02
			Nickel	N/A	--	--	--	N/A	General Toxicity	2E-03	--	--	2E-03
			Thallium	N/A	--	--	--	N/A	Blood	1E-02	--	--	1E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	9E-02	--	--	9E-02
			Zinc	N/A	--	--	--	N/A	Blood	6E-03	--	--	6E-03
			Chemical Total	2E-04	--	9E-05	--	3E-04		5E+00	--	1E+00	6E+00
			Radionuclide Total										
		Exposure Point Total						3E-04					6E+00
	Exposure Medium Total							3E-04					6E+00
Medium Total								3E-04					6E+00
Receptor Total								3E-04					6E+00

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-04

Total Hazard Across All Media: 6E+00

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 3E-04
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 3E-04
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 3E-04

Total Skin HI =	6E+00
Total Nervous System HI =	1E-01
Total Immune System HI =	9E-03
Total Kidney HI =	2E-01
Total Blood HI =	7E-02
Total General Toxicity HI =	3E-03
Total Liver HI =	7E-04
Total Gastrointestinal System HI =	6E-02
Total Cardiovascular HI =	2E-03
Total Developmental HI =	N/A

TABLE 3-8.38.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Surface Water	Station NT-2 (Reach 1)	Heptachlor epoxide	--	--	8E-10	--	8E-10	Liver	--	--	9E-05	9E-05
			Arsenic	--	--	3E-08	--	3E-08	Skin	--	--	1E-03	1E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	1E-04	1E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	1E-02	1E-02
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	1E-03	1E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	2E-04	2E-04
			Chemical Total	--	--	3E-08	--	3E-08		--	--	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						3E-08					1E-02
	Exposure Medium Total							3E-08					1E-02
Medium Total								3E-08					1E-02
Sediment	Sediment	Station NT-2	Trichloroethene	1E-10	--	--	--	1E-10	Liver	3E-05	--	--	3E-05
			Benzo(a)anthracene	3E-09	--	5E-09	--	8E-09	N/A	N/A	--	N/A	N/A
			Benzo(a)pyrene	2E-08	--	4E-08	--	6E-08	N/A	N/A	--	N/A	N/A
			Benzo(b)fluoranthene	8E-09	--	1E-08	--	2E-08	N/A	N/A	--	N/A	N/A
			Benzo(k)fluoranthene	5E-10	--	8E-10	--	1E-09	N/A	N/A	--	N/A	N/A
			Dibenz(a,h)anthracene	2E-08	--	3E-08	--	4E-08	N/A	N/A	--	N/A	N/A
			Indeno(1,2,3-cd)pyrene	2E-09	--	3E-09	--	5E-09	N/A	N/A	--	N/A	N/A
			Phenanthrene	N/A	--	N/A	--	N/A	General Toxicity	8E-06	--	9E-06	2E-05
			Aroclor 1260	3E-10	--	6E-10	--	9E-10	Immune System	4E-04	--	7E-04	1E-03
			Antimony	N/A	--	--	--	N/A	Blood	9E-03	--	--	9E-03
			Arsenic	1E-05	--	9E-06	--	2E-05	Skin	7E-01	--	5E-01	1E+00
			Barium	N/A	--	--	--	N/A	Cardiovascular	3E-04	--	--	3E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	1E-03	--	7E-03	8E-03
			Chromium III	N/A	--	--	--	N/A	General Toxicity	1E-04	--	--	1E-04
			Copper	N/A	--	--	--	N/A	Kidney	9E-03	--	--	9E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	3E-03	--	--	3E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	1E-02	--	--	1E-02
			Nickel	N/A	--	--	--	N/A	General Toxicity	4E-04	--	--	4E-04
			Thallium	N/A	--	--	--	N/A	Blood	2E-03	--	--	2E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	2E-02	--	--	2E-02
			Zinc	N/A	--	--	--	N/A	Blood	1E-03	--	--	1E-03
			Chemical Total	1E-05	--	9E-06	--	2E-05		8E-01	--	5E-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

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 Skin HI =	1E+00
Total Nervous System HI =	2E-02
Total Immune System HI =	1E-03
Total Kidney HI =	3E-02
Total Blood HI =	1E-02
Total General Toxicity HI =	6E-04
Total Liver HI =	1E-04
Total Gastrointestinal System HI =	1E-02
Total Cardiovascular HI =	3E-04
Total Developmental HI =	N/A

TABLE 3-8.40 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Surface Water	Station NT-3 (Reach 1)	Heptachlor epoxide	--	--	1E-06	--	1E-06	Liver	--	--	4E-04	4E-04
			Arsenic	--	--	7E-07	--	7E-07	Skin	--	--	6E-03	6E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	4E-03	4E-03
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	6E-02	6E-02
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	5E-03	5E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	1E-03	1E-03
			Chemical Total	--	--	7E-07	--	7E-07		--	--	6E-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
Sediment	Sediment	Station NT-3	Trichloroethene	4E-08	--	--	--	4E-08	Liver	3E-04	--	--	3E-04
			Benzo(a)anthracene	7E-08	--	9E-08	--	1E-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
			Benzo(k)fluoranthene	9E-08	--	6E-08	--	2E-08	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	9E-08	--	8E-08	--	2E-07	N/A	N/A	--	N/A	N/A
			Phenanthrene	N/A	--	N/A	--	N/A	General Toxicity	4E-05	--	3E-05	7E-05
			Aroclor 1260	2E-06	--	2E-06	--	4E-06	Immune System	4E-03	--	3E-03	7E-03
			Antimony	N/A	--	--	--	N/A	Blood	5E-02	--	--	5E-02
			Arsenic	7E-05	--	2E-05	--	9E-05	Skin	1E+00	--	4E-01	2E+00
			Barium	N/A	--	--	--	N/A	Cardiovascular	2E-03	--	--	2E-03
			Cadmium	N/A	--	N/A	--	N/A	Kidney	1E-02	--	2E-02	3E-02
			Chromium III	N/A	--	--	--	N/A	General Toxicity	1E-03	--	--	1E-03
			Copper	N/A	--	--	--	N/A	Kidney	4E-02	--	--	4E-02
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	2E-02	--	--	2E-02
			Mercury	N/A	--	--	--	N/A	Nervous System	7E-02	--	--	7E-02
			Nickel	N/A	--	--	--	N/A	General Toxicity	3E-03	--	--	3E-03
			Thallium	N/A	--	--	--	N/A	Blood	1E-02	--	--	1E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	1E-01	--	--	1E-01
			Zinc	N/A	--	--	--	N/A	Blood	6E-03	--	--	6E-03
			Chemical Total	7E-05	--	9E-05	--	9E-05		2E+00	--	4E-01	2E+00
			Radionuclide Total										
		Exposure Point Total						9E-05					2E+00
	Exposure Medium Total							9E-05					2E+00
Medium Total								9E-05					2E+00
Receptor Total								1E-04					2E+00

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-04

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 1E-04
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 1E-04
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 1E-04

Total Hazard Across All Media: 2E+00

Total Skin HI = 2E+00
Total Nervous System HI = 1E-01
Total Immune System HI = 9E-03
Total Kidney HI = 2E-01
Total Blood HI = 7E-02
Total General Toxicity HI = 4E-03
Total Liver HI = 7E-04
Total Gastrointestinal System HI = 6E-02
Total Cardiovascular HI = 2E-03
Total Developmental HI = N/A

TABLE 3-9.40.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult: Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Non-Carcinogenic Hazard Quotient Young Child: Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station NT-3 (Reach 1)	Heptachlor epoxide	--	--	8E-10	--	8E-10	Liver	--	--	9E-05	9E-05
			Arsenic	--	--	3E-08	--	3E-08	Skin	--	--	1E-03	1E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	1E-04	1E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	1E-02	1E-02
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	1E-03	1E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	2E-04	2E-04
			Chemical Total	--	--	3E-08	--	3E-08		--	--	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						3E-08					1E-02
	Exposure Medium Total							3E-08					1E-02
Medium Total								3E-08					1E-02
Sediment	Sediment	Station NT-3	Trichloroethene	2E-10	--	--	--	2E-10	Liver	4E-05	--	--	4E-05
			Benzo(a)anthracene	2E-09	--	4E-09	--	6E-09	N/A	N/A	--	N/A	N/A
			Benzo(a)pyrene	4E-08	--	6E-08	--	1E-07	N/A	N/A	--	N/A	N/A
			Benzo(b)fluoranthene	6E-09	--	1E-08	--	2E-08	N/A	N/A	--	N/A	N/A
			Benzo(k)fluoranthene	3E-10	--	5E-10	--	8E-10	N/A	N/A	--	N/A	N/A
			Dibenz(a,h)anthracene	1E-08	--	2E-08	--	3E-08	N/A	N/A	--	N/A	N/A
			Indeno(1,2,3-cd)pyrene	3E-09	--	5E-09	--	8E-09	N/A	N/A	--	N/A	N/A
			Phenanthrene	N/A	--	N/A	--	N/A	General Toxicity	4E-06	--	6E-06	1E-05
			Aroclor 1260	3E-10	--	6E-10	--	9E-10	Immune System	4E-04	--	6E-04	1E-03
			Antimony	N/A	--	--	--	N/A	Blood	9E-03	--	--	9E-03
			Arsenic	4E-06	--	3E-06	--	8E-06	Skin	2E-01	--	1E-01	3E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	3E-04	--	--	3E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	2E-03	--	7E-03	9E-03
			Chromium III	N/A	--	--	--	N/A	General Toxicity	2E-04	--	--	2E-04
			Copper	N/A	--	--	--	N/A	Kidney	7E-03	--	--	7E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	3E-03	--	--	3E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	1E-02	--	--	1E-02
			Nickel	N/A	--	--	--	N/A	General Toxicity	4E-04	--	--	4E-04
			Thallium	N/A	--	--	--	N/A	Blood	2E-03	--	--	2E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	2E-02	--	--	2E-02
			Zinc	N/A	--	--	--	N/A	Blood	9E-04	--	--	9E-04
			Chemical Total	4E-06	--	3E-06	--	6E-06		3E-01	--	1E-01	4E-01
			Radionuclide Total										
		Exposure Point Total						6E-06					4E-01
	Exposure Medium Total							6E-06					4E-01
Medium Total								6E-06					4E-01
Receptor Total								6E-06					4E-01

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 6E-06

Total Hazard Across All Media: 4E-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: 9E-06

Total Skin HI =	3E-01
Total Nervous System HI =	2E-02
Total Immune System HI =	1E-03
Total Kidney HI =	3E-02
Total Blood HI =	1E-02
Total General Toxicity HI =	6E-04
Total Liver HI =	1E-04
Total Gastrointestinal System HI =	1E-02
Total Cardiovascular HI =	3E-04
Total Developmental HI =	N/A

TABLE 3-8.41.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult: Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Non-Carcinogenic Hazard Quotient Young Child: Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station WG (Reach 1)	Heptachlor epoxide	--	--	1E-08	--	1E-08	Liver	--	--	4E-04	4E-04
			Arsenic	--	--	7E-07	--	7E-07	Skin	--	--	8E-03	8E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	4E-03	4E-03
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	8E-02	8E-02
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	8E-03	8E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	1E-03	1E-03
			Chemical Total	--	--	7E-07	--	7E-07		--	--	8E-02	8E-02
			Radionuclide Total										
		Exposure Point Total						7E-07					8E-02
	Exposure Medium Total							7E-07					8E-02
Medium Total								7E-07					8E-02
Sediment	Sediment	Station WG											
			Trichloroethene	3E-09	--	--	--	3E-09	Liver	2E-04	--	--	2E-04
			Benzo(a)anthracene	2E-08	--	1E-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	4E-08	--	3E-08	--	7E-08	N/A	N/A	--	N/A	N/A
			Benzo(k)fluoranthene	3E-09	--	2E-09	--	5E-09	N/A	N/A	--	N/A	N/A
			Dibenz(a,h)anthracene	6E-08	--	5E-08	--	1E-07	N/A	N/A	--	N/A	N/A
			Indeno(1,2,3-cd)pyrene	2E-08	--	1E-08	--	3E-08	N/A	N/A	--	N/A	N/A
			Phenanthrene	N/A	--	N/A	--	N/A	General Toxicity	1E-05	--	8E-06	2E-05
			Aroclor 1260	4E-09	--	3E-09	--	7E-09	Immune System	8E-04	--	8E-04	1E-03
			Antimony	N/A	--	--	--	N/A	Blood	3E-02	--	--	3E-02
			Arsenic	4E-05	--	1E-05	--	5E-05	Skin	6E-01	--	2E-01	8E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	2E-03	--	--	2E-03
			Cadmium	N/A	--	N/A	--	N/A	Kidney	9E-03	--	2E-02	3E-02
			Chromium III	N/A	--	--	--	N/A	General Toxicity	9E-04	--	--	9E-04
			Copper	N/A	--	--	--	N/A	Kidney	3E-02	--	--	3E-02
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	2E-02	--	--	2E-02
			Mercury	N/A	--	--	--	N/A	Nervous System	4E-02	--	--	4E-02
			Nickel	N/A	--	--	--	N/A	General Toxicity	2E-03	--	--	2E-03
			Thallium	N/A	--	--	--	N/A	Blood	8E-03	--	--	8E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	9E-02	--	--	9E-02
			Zinc	N/A	--	--	--	N/A	Blood	5E-03	--	--	5E-03
			Chemical Total	4E-05	--	1E-05	--	5E-05		9E-01	--	2E-01	1E+00
			Radionuclide Total										
		Exposure Point Total						5E-05					1E+00
	Exposure Medium Total							5E-05					1E+00
Medium Total								5E-05					1E+00
Receptor Total								5E-05					1E+00

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 5E-05

Total Hazard Across All Media: 1E+00

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 5E-05
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 5E-05
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 5E-05

Total Skin HI = 8E-01
Total Nervous System HI = 7E-02
Total Immune System HI = 3E-03
Total Kidney HI = 2E-01
Total Blood HI = 5E-02
Total General Toxicity HI = 3E-03
Total Liver HI = 8E-04
Total Gastrointestinal System HI = 8E-02
Total Cardiovascular HI = 2E-03
Total Developmental HI = N/A

TABLE 3-8.41.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Surface Water	Station WG (Reach 1)	Heptachlor epoxide	--	--	8E-10	--	8E-10	Liver	--	--	9E-05	9E-05
			Arsenic	--	--	3E-08	--	3E-08	Skin	--	--	1E-03	1E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	1E-04	1E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	1E-02	1E-02
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	1E-03	1E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	2E-04	2E-04
			Chemical Total	--	--	3E-08	--	3E-08		--	--	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						3E-08					1E-02
	Exposure Medium Total							3E-08					1E-02
Medium Total								3E-08					1E-02
Sediment	Sediment	Station WG	Trichloroethene	2E-10	--	--	--	2E-10	Liver	3E-05	--	--	3E-05
			Benzo(a)anthracene	9E-10	--	1E-09	--	2E-09	N/A	N/A	--	N/A	N/A
			Benzo(a)pyrene	1E-08	--	2E-08	--	3E-08	N/A	N/A	--	N/A	N/A
			Benzo(b)fluoranthene	2E-09	--	3E-09	--	5E-09	N/A	N/A	--	N/A	N/A
			Benzo(k)fluoranthene	1E-10	--	2E-10	--	4E-10	N/A	N/A	--	N/A	N/A
			Dibenz(a,h)anthracene	3E-09	--	5E-09	--	8E-09	N/A	N/A	--	N/A	N/A
			Indeno(1,2,3-cd)pyrene	1E-08	--	2E-09	--	3E-09	N/A	N/A	--	N/A	N/A
			Phenanthrene	N/A	--	N/A	--	N/A	General Toxicity	2E-06	--	3E-06	5E-06
			Aroclor 1260	1E-10	--	2E-10	--	3E-10	Immune System	1E-04	--	2E-04	3E-04
			Antimony	N/A	--	--	--	N/A	Blood	5E-03	--	--	5E-03
			Arsenic	2E-06	--	1E-06	--	3E-06	Skin	1E-01	--	7E-02	2E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	3E-04	--	--	3E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	2E-03	--	7E-03	8E-03
			Chromium III	N/A	--	--	--	N/A	General Toxicity	1E-04	--	--	1E-04
			Copper	N/A	--	--	--	N/A	Kidney	5E-03	--	--	5E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	3E-03	--	--	3E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	7E-03	--	--	7E-03
			Nickel	N/A	--	--	--	N/A	General Toxicity	4E-04	--	--	4E-04
			Thallium	N/A	--	--	--	N/A	Blood	1E-03	--	--	1E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	2E-02	--	--	2E-02
			Zinc	N/A	--	--	--	N/A	Blood	9E-04	--	--	9E-04
			Chemical Total	2E-06	--	1E-06	--	3E-06		1E-01	--	8E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						3E-06					2E-01
	Exposure Medium Total							3E-06					2E-01
Medium Total								3E-06					2E-01
Receptor Total								3E-06					2E-01

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-06

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 Hazard Across All Media: 2E-01

Total Skin HI = 2E-01
Total Nervous System HI = 1E-02
Total Immune System HI = 5E-04
Total Kidney HI = 3E-02
Total Blood HI = 8E-03
Total General Toxicity HI = 8E-04
Total Liver HI = 1E-04
Total Gastrointestinal System HI = 1E-02
Total Cardiovascular HI = 3E-04
Total Developmental HI = N/A

TABLE 3-9.42.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult: Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Non-Carcinogenic Hazard Quotient Young Child: Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station WW (Reach 1)	Heptachlor epoxide	–	--	1E-08	--	1E-08	Liver	--	--	4E-04	4E-04
			Arsenic	–	--	7E-07	--	7E-07	Skin	--	--	6E-03	6E-03
			Cadmium	–	--	N/A	--	N/A	Kidney	--	--	4E-03	4E-03
			Chromium VI	–	--	N/A	--	N/A	Gastrointestinal System	--	--	6E-02	6E-02
			Lead										
			Manganese	–	--	N/A	--	N/A	Nervous System	--	--	8E-03	8E-03
			Mercury	–	--	N/A	--	N/A	Immune System	--	--	1E-03	1E-03
			Chemical Total	–	--	7E-07	--	7E-07		--	--	8E-02	8E-02
			Radionuclide Total										
		Exposure Point Total						7E-07					8E-02
	Exposure Medium Total							7E-07					8E-02
Medium Total								7E-07					8E-02
Sediment	Sediment	Station WW	Benzo(b)fluoranthene	4E-08	--	3E-08	--	8E-08	N/A	N/A	--	N/A	N/A
			Benzo(k)fluoranthene	8E-09	--	6E-09	--	1E-08	N/A	N/A	--	N/A	N/A
			Antimony	N/A	--	--	--	N/A	Blood	2E-01	--	--	2E-01
			Arsenic	7E-06	--	3E-06	--	1E-05	Skin	1E-01	--	4E-02	2E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	3E-02	--	--	3E-02
			Cadmium	N/A	--	N/A	--	N/A	Kidney	1E-02	--	3E-02	4E-02
			Chromium III	N/A	--	--	--	N/A	General Toxicity	1E-02	--	--	1E-02
			Copper	N/A	--	--	--	N/A	Kidney	2E-02	--	--	2E-02
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	9E-03	--	--	9E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	2E-02	--	--	2E-02
			Nickel	N/A	--	--	--	N/A	General Toxicity	2E-03	--	--	2E-03
			Thallium	N/A	--	--	--	N/A	Blood	3E-02	--	--	3E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	1E-01	--	--	1E-01
			Zinc	N/A	--	--	--	N/A	Blood	6E-03	--	--	6E-03
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	1E-02	--	--	1E-02
			Chemical Total	7E-06	--	3E-06	--	1E-05		6E-01	--	7E-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 Skin HI =	2E-01
Total Nervous System HI =	3E-02
Total Immune System HI =	1E-03
Total Kidney HI =	2E-01
Total Blood HI =	2E-01
Total General Toxicity HI =	2E-02
Total Liver HI =	4E-04
Total Gastrointestinal System HI =	7E-02
Total Cardiovascular HI =	3E-02
Total Developmental HI =	N/A

TABLE 3-9.42.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult: Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Non-Carcinogenic Hazard Quotient Young Child: Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station WW (Reach 1)	Heptachlor epoxide	--	--	8E-10	--	8E-10	Liver	--	--	9E-05	9E-05
			Arsenic	--	--	3E-08	--	3E-08	Skin	--	--	1E-03	1E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	1E-04	1E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	1E-02	1E-02
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	1E-03	1E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	2E-04	2E-04
			Chemical Total	--	--	3E-08	--	3E-08		--	--	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						3E-08					1E-02
	Exposure Medium Total							3E-08					1E-02
Medium Total								3E-08					1E-02
Sediment	Sediment	Station WW	Benzo(b)fluoranthene	2E-09	--	4E-09	--	6E-09	N/A	N/A	--	N/A	N/A
			Benzo(k)fluoranthene	4E-10	--	7E-10	--	1E-09	N/A	N/A	--	N/A	N/A
			Antimony	N/A	--	--	--	N/A	Blood	2E-02	--	--	2E-02
			Arsenic	3E-07	--	2E-07	--	5E-07	Skin	2E-02	--	1E-02	3E-02
			Barium	N/A	--	--	--	N/A	Cardiovascular	5E-03	--	--	5E-03
			Cadmium	N/A	--	N/A	--	N/A	Kidney	2E-03	--	1E-02	1E-02
			Chromium III	N/A	--	--	--	N/A	General Toxicity	2E-03	--	--	2E-03
			Copper	N/A	--	--	--	N/A	Kidney	3E-03	--	--	3E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	1E-03	--	--	1E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	3E-03	--	--	3E-03
			Nickel	N/A	--	--	--	N/A	General Toxicity	3E-04	--	--	3E-04
			Thallium	N/A	--	--	--	N/A	Blood	5E-03	--	--	5E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	2E-02	--	--	2E-02
			Zinc	N/A	--	--	--	N/A	Blood	1E-03	--	--	1E-03
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	2E-03	--	--	2E-03
			Chemical Total	3E-07	--	2E-07	--	5E-07		8E-02	--	2E-02	1E-01
			Radionuclide Total										
		Exposure Point Total						5E-07					1E-01
	Exposure Medium Total							5E-07					1E-01
Medium Total								5E-07					1E-01
Receptor Total								5E-07					1E-01

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 5E-07

Total Hazard Across All Media: 1E-01

Total Skin HI =	3E-02
Total Nervous System HI =	6E-03
Total Immune System HI =	2E-04
Total Kidney HI =	3E-02
Total Blood HI =	2E-02
Total General Toxicity HI =	3E-03
Total Liver HI =	9E-05
Total Gastrointestinal System HI =	1E-02
Total Cardiovascular HI =	5E-03
Total Developmental HI =	N/A

TABLE 3-9.43.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult: Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Non-Carcinogenic Hazard Quotient Young Child: Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station JY (Reach 1)	Heptachlor epoxide	--	--	1E-08	--	1E-08	Liver	--	--	4E-04	4E-04
			Arsenic	--	--	7E-07	--	7E-07	Skin	--	--	6E-03	6E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	4E-03	4E-03
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	6E-02	6E-02
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	8E-03	8E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	1E-03	1E-03
			Chemical Total	--	--	7E-07	--	7E-07		--	--	8E-02	8E-02
			Radionuclide Total										
		Exposure Point Total						7E-07					8E-02
	Exposure Medium Total							7E-07					8E-02
Medium Total								7E-07					8E-02
Sediment	Sediment	Station JY	Aroclor 1254	5E-07	--	N/A	--	5E-07	Immune System	1E-01	--	8E-02	2E-01
			Aroclor 1260	5E-07	--	5E-07	--	1E-06	Immune System	1E-01	--	8E-02	2E-01
			Antimony	N/A	--	--	--	N/A	Blood	7E-02	--	--	7E-02
			Arsenic	4E-05	--	1E-06	--	5E-05	Skin	7E-01	--	2E-01	9E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	4E-03	--	--	4E-03
			Cadmium	N/A	--	N/A	--	N/A	Kidney	2E-02	--	5E-02	7E-02
			Chromium III	N/A	--	--	--	N/A	General Toxicity	1E-03	--	--	1E-03
			Copper	N/A	--	--	--	N/A	Kidney	2E-02	--	--	2E-02
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	7E-03	--	--	7E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	3E-02	--	--	3E-02
			Nickel	N/A	--	--	--	N/A	General Toxicity	5E-03	--	--	5E-03
			Thallium	N/A	--	--	--	N/A	Blood	7E-02	--	--	7E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	9E-02	--	--	9E-02
			Zinc	N/A	--	--	--	N/A	Blood	1E-02	--	--	1E-02
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	7E-04	--	--	7E-04
			Chemical Total	4E-05	--	1E-05	--	5E-05		1E+00	--	4E-01	2E+00
			Radionuclide Total										
		Exposure Point Total						5E-05					2E+00
	Exposure Medium Total							5E-05					2E+00
Medium Total								5E-05					2E+00
Receptor Total								5E-05					2E+00

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 5E-05

Total Hazard Across All Media: 2E+00

Total Skin HI =	9E-01
Total Nervous System HI =	4E-02
Total Immune System HI =	4E-01
Total Kidney HI =	2E-01
Total Blood HI =	2E-01
Total General Toxicity HI =	5E-03
Total Liver HI =	4E-04
Total Gastrointestinal System HI =	6E-02
Total Cardiovascular HI =	4E-03
Total Developmental HI =	N/A

TABLE 3-9 43.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Surface Water	Station JY (Reach 1)	Heptachlor epoxide	--	--	6E-10	--	6E-10	Liver	--	--	9E-05	9E-05
			Arsenic	--	--	3E-08	--	3E-08	Skin	--	--	1E-03	1E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	1E-04	1E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	1E-02	1E-02
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	1E-03	1E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	2E-04	2E-04
			Chemical Total	--	--	3E-08	--	3E-08		--	--	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						3E-08					1E-02
	Exposure Medium Total							3E-08					1E-02
Medium Total								3E-08					1E-02
Sediment	Sediment	Station JY	Aroclor 1254	1E-08	--	2E-08	--	4E-08	Immune System	2E-02	--	3E-02	4E-02
			Aroclor 1260	1E-08	--	2E-08	--	4E-08	Immune System	2E-02	--	3E-02	4E-02
			Antimony	N/A	--	--	--	N/A	Blood	3E-03	--	--	3E-03
			Arsenic	2E-06	--	1E-06	--	4E-06	Skin	1E-01	--	8E-02	2E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	6E-04	--	--	6E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	3E-03	--	2E-02	2E-02
			Chromium III	N/A	--	--	--	N/A	General Toxicity	2E-04	--	--	2E-04
			Copper	N/A	--	--	--	N/A	Kidney	4E-03	--	--	4E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	1E-03	--	--	1E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	4E-03	--	--	4E-03
			Nickel	N/A	--	--	--	N/A	General Toxicity	9E-04	--	--	9E-04
			Thallium	N/A	--	--	--	N/A	Blood	1E-02	--	--	1E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	2E-02	--	--	2E-02
			Zinc	N/A	--	--	--	N/A	Blood	2E-03	--	--	2E-03
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	1E-04	--	--	1E-04
			Chemical Total	2E-06	--	2E-06	--	4E-06		2E-01	--	1E-01	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					4E-01

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 4E-06

Total Hazard Across All Media: 4E-01

Total Skin HI =	2E-01
Total Nervous System HI =	7E-03
Total Immune System HI =	9E-02
Total Kidney HI =	4E-02
Total Blood HI =	2E-02
Total General Toxicity HI =	1E-03
Total Liver HI =	9E-05
Total Gastrointestinal System HI =	1E-02
Total Cardiovascular HI =	6E-04
Total Developmental HI =	N/A

TABLE 3-9.44 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult: Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Non-Carcinogenic Hazard Quotient Young Child: Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station WS/WSS (Reach 1)	Heptachlor epoxide	--	--	1E-08	--	1E-08	Liver	--	--	5E-04	5E-04
			Arsenic	--	--	9E-07	--	9E-07	Skin	--	--	8E-03	8E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	5E-03	5E-03
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	8E-02	8E-02
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	1E-02	1E-02
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	2E-03	2E-03
			Chemical Total	--	--	9E-07	--	9E-07		--	--	1E-01	1E-01
			Radionuclide Total										
		Exposure Point Total						9E-07					1E-01
	Exposure Medium Total							9E-07					1E-01
Medium Total								9E-07					1E-01
Sediment	Sediment	Station WS/WSS	Antimony	N/A	--	--	--	N/A	Blood	2E-02	--	--	2E-02
			Arsenic	4E-05	--	1E-05	--	6E-05	Skin	7E-01	--	2E-01	1E+00
			Barium	N/A	--	--	--	N/A	Cardiovascular	4E-03	--	--	4E-03
			Cadmium	N/A	--	N/A	--	N/A	Kidney	2E-02	--	5E-02	7E-02
			Chromium III	N/A	--	--	--	N/A	General Toxicity	9E-04	--	--	9E-04
			Copper	N/A	--	--	--	N/A	Kidney	3E-02	--	--	3E-02
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	3E-02	--	--	3E-02
			Mercury	N/A	--	--	--	N/A	Nervous System	3E-02	--	--	3E-02
			Nickel	N/A	--	--	--	N/A	General Toxicity	3E-03	--	--	3E-03
			Thallium	N/A	--	--	--	N/A	Blood	3E-02	--	--	3E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	9E-02	--	--	9E-02
			Zinc	N/A	--	--	--	N/A	Blood	1E-02	--	--	1E-02
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	6E-04	--	--	6E-04
			Chemical Total	4E-05	--	1E-05	--	6E-05		1E+00	--	3E-01	1E+00
			Radionuclide Total										
		Exposure Point Total						6E-05					1E+00
	Exposure Medium Total							6E-05					1E+00
Medium Total								6E-05					1E+00
Soil	Surface Soil	Station WS/WSS	Arsenic	3E-06	--	7E-07	--	4E-06	Skin	6E-02	--	1E-02	7E-02
			Cadmium	N/A	--	N/A	--	N/A	Kidney	7E-04	--	2E-03	2E-03
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	1E-02	--	--	1E-02
			Copper	N/A	--	--	--	N/A	Kidney	2E-03	--	--	2E-03
			Manganese	N/A	--	--	--	N/A	Nervous System	5E-03	--	--	5E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	2E-03	--	--	2E-03
			Thallium	N/A	--	--	--	N/A	Blood	3E-02	--	--	3E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	5E-02	--	--	5E-02
			Zinc	N/A	--	--	--	N/A	Blood	5E-04	--	--	5E-04
			Chemical Total	3E-06	--	7E-07	--	4E-06		2E-01	--	1E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						4E-06					2E-01
	Exposure Medium Total							4E-06					2E-01
Medium Total								4E-06					2E-01
Receptor Total								8E-05					2E+00

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 8E-05

Total Hazard Across All Media: 2E+00

Total Skin HI =	1E+00
Total Nervous System HI =	9E-02
Total Immune System HI =	2E-03
Total Kidney HI =	2E-01
Total Blood HI =	9E-02
Total General Toxicity HI =	4E-03
Total Liver HI =	5E-04
Total Gastrointestinal System HI =	1E-01
Total Cardiovascular HI =	4E-03
Total Developmental HI =	N/A

TABLE 3-9.44 CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Surface Water	Station WS/WSS (Reach 1)	Heptachlor epoxide	–	- -	2E-09	- -	2E-09	Liver	- -	- -	3E-04	3E-04
			Arsenic	–	- -	1E-07	- -	1E-07	Skin	- -	- -	3E-03	3E-03
			Cadmium	–	- -	N/A	- -	N/A	Kidney	- -	- -	3E-04	3E-04
			Chromium VI	–	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	3E-02	3E-02
			Lead										
			Manganese	–	- -	N/A	- -	N/A	Nervous System	- -	- -	4E-03	4E-03
			Mercury	–	- -	N/A	- -	N/A	Immune System	- -	- -	6E-04	6E-04
			Chemical Total	–	- -	1E-07	- -	1E-07		- -	- -	4E-02	4E-02
			Radionuclide Total										
		Exposure Point Total						1E-07					4E-02
	Exposure Medium Total							1E-07					4E-02
Medium Total								1E-07					4E-02
Sediment	Sediment	Station WS/WSS	Antimony	N/A	- -	- -	- -	N/A	Blood	9E-03	- -	- -	9E-03
			Arsenic	5E-06	- -	4E-06	- -	8E-06	Skin	3E-01	- -	2E-01	5E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	1E-03	- -	- -	1E-03
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	8E-03	- -	3E-02	4E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	3E-04	- -	- -	3E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	1E-02	- -		1E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	1E-02	- -	- -	1E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	1E-02	- -	- -	1E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	1E-03	- -	- -	1E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	1E-02	- -	- -	1E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	3E-02	- -	- -	3E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	5E-03	- -	- -	5E-03
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	2E-04	- -	- -	2E-04
			Chemical Total	5E-06	- -	4E-06	- -	8E-06		4E-01	- -	2E-01	5E-01
			Radionuclide Total										
		Exposure Point Total						8E-06					5E-01
	Exposure Medium Total							8E-06					6E-01
Medium Total								8E-06					6E-01
Soil	Surface Soil	Station WS/WSS	Arsenic	2E-06	- -	2E-07	- -	2E-06	Skin	9E-02	- -	6E-03	9E-02
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	3E-04	- -	6E-04	9E-04
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	9E-03	- -	- -	9E-03
			Copper	N/A	- -	- -	- -	N/A	Kidney	1E-03	- -	- -	1E-03
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	4E-03	- -	- -	4E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-03	- -	- -	2E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	2E-02	- -	- -	2E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	3E-02	- -	- -	3E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	3E-04	- -	- -	3E-04
			Chemical Total	2E-06	- -	2E-07	- -	2E-06		1E-01	- -	8E-03	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								1E-05					8E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-05

Total Hazard Across All Media: 8E-01

Total Skin HI =	5E-01
Total Nervous System HI =	3E-02
Total Immune System HI =	6E-04
Total Kidney HI =	1E-01
Total Blood HI =	5E-02
Total General Toxicity HI =	2E-03
Total Liver HI =	3E-04
Total Gastrointestinal System HI =	4E-02
Total Cardiovascular HI =	1E-03
Total Developmental HI =	N/A

TABLE 3-9.45.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Surface Water	Station TT-30 (Upper Reach 2)	Trichloroethene	--	--	6E-08	--	6E-08	Liver	--	--	2E-03	2E-03
			Arsenic	--	--	9E-08	--	9E-08	Skin	--	--	9E-04	9E-04
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	1E-04	1E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	4E-03	4E-03
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	4E-03	4E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	9E-05	9E-05
			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	Station TT-30	Arsenic	5E-05	--	2E-05	--	7E-05	Skin	9E-01	--	3E-01	1E+00
			Barium	N/A	--	--	--	N/A	Cardiovascular	2E-04	--	--	2E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	3E-03	--	8E-03	1E-02
			Chromium III	N/A	--	--	--	N/A	General Toxicity	2E-03	--	--	2E-03
			Copper	N/A	--	--	--	N/A	Kidney	6E-02	--	--	6E-02
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	1E-03	--	--	1E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	4E-01	--	--	4E-01
			Nickel	N/A	--	--	--	N/A	General Toxicity	2E-04	--	--	2E-04
			Thallium	N/A	--	--	--	N/A	Blood	9E-03	--	--	9E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	1E-02	--	--	1E-02
			Zinc	N/A	--	--	--	N/A	Blood	2E-03	--	--	2E-03
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	1E-03	--	--	1E-03
			Chemical Total	5E-05	--	2E-05	--	7E-05		1E+00	--	3E-01	2E+00
			Radionuclide Total										
		Exposure Point Total						7E-05					2E+00
	Exposure Medium Total							7E-05					2E+00
Medium Total								7E-05					2E+00
Receptor Total								7E-05					2E+00

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 7E-05

Total Hazard Across All Media: 2E+00

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 Skin HI =	1E+00
Total Nervous System HI =	4E-01
Total Immune System HI =	9E-05
Total Kidney HI =	8E-02
Total Blood HI =	1E-02
Total General Toxicity HI =	2E-03
Total Liver HI =	2E-03
Total Gastrointestinal System HI =	5E-03
Total Cardiovascular HI =	2E-04
Total Developmental HI =	N/A

TABLE 3-9.45 CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Surface Water	Station TT-30 (Upper Reach 2)	Trichloroethene	--	--	1E-08	--	1E-08	Liver	--	--	2E-03	2E-03
			Arsenic	--	--	1E-08	--	1E-08	Skin	--	--	3E-04	3E-04
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	6E-05	6E-05
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	1E-03	1E-03
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	2E-03	2E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	4E-05	4E-05
			Chemical Total	--	--	3E-08	--	3E-08		--	--	5E-03	5E-03
			Radionuclide Total										
		Exposure Point Total						3E-08					5E-03
	Exposure Medium Total							3E-08					5E-03
Medium Total								3E-08					5E-03
Sediment	Sediment	Station TT-30	Arsenic	8E-06	--	8E-06	--	1E-05	Skin	4E-01	--	3E-01	7E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	1E-04	--	--	1E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	2E-03	--	8E-03	9E-03
			Chromium III	N/A	--	--	--	N/A	General Toxicity	8E-04	--	--	8E-04
			Copper	N/A	--	--	--	N/A	Kidney	3E-02	--	--	3E-02
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	7E-04	--	--	7E-04
			Mercury	N/A	--	--	--	N/A	Nervous System	2E-01	--	--	2E-01
			Nickel	N/A	--	--	--	N/A	General Toxicity	9E-05	--	--	9E-05
			Thallium	N/A	--	--	--	N/A	Blood	4E-03	--	--	4E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	5E-03	--	--	5E-03
			Zinc	N/A	--	--	--	N/A	Blood	9E-04	--	--	9E-04
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	5E-04	--	--	5E-04
			Chemical Total	8E-06	--	8E-06	--	1E-05		7E-01	--	3E-01	1E+00
			Radionuclide Total										
		Exposure Point Total						1E-05					1E+00
	Exposure Medium Total							1E-05					1E+00
Medium Total								1E-05					1E+00
Receptor Total								1E-05					1E+00

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-05

Total Hazard Across All Media: 1E+00

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 Skin HI =	7E-01
Total Nervous System HI =	2E-01
Total Immune System HI =	4E-05
Total Kidney HI =	4E-02
Total Blood HI =	5E-03
Total General Toxicity HI =	9E-04
Total Liver HI =	2E-03
Total Gastrointestinal System HI =	2E-03
Total Cardiovascular HI =	1E-04
Total Developmental HI =	N/A

TABLE 3-9 46 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult: Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Non-Carcinogenic Hazard Quotient Young Child: Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station TT-31 (Upper Reach 2)	Trichloroethene	--	--	2E-07	--	2E-07	Liver	--	--	7E-03	7E-03
			Arsenic	--	--	3E-07	--	3E-07	Skin	--	--	3E-03	3E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	4E-04	4E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	1E-02	1E-02
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	1E-02	1E-02
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	3E-04	3E-04
			Chemical Total	--	--	5E-07	--	5E-07		--	--	3E-02	3E-02
			Radionuclide Total										
		Exposure Point Total						5E-07					3E-02
	Exposure Medium Total							5E-07					3E-02
Medium Total								5E-07					3E-02
Sediment	Sediment	Station TT-31	Arsenic	4E-06	--	2E-06	--	6E-06	Skin	7E-02	--	2E-02	1E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	3E-03	--	--	3E-03
			Cadmium	N/A	--	N/A	--	N/A	Kidney	8E-03	--	2E-02	3E-02
			Chromium III	N/A	--	--	--	N/A	General Toxicity	3E-04	--	--	3E-04
			Copper	N/A	--	--	--	N/A	Kidney	9E-03	--	--	9E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	2E-02	--	--	2E-02
			Mercury	N/A	--	--	--	N/A	Nervous System	3E-02	--	--	3E-02
			Nickel	N/A	--	--	--	N/A	General Toxicity	3E-03	--	--	3E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	8E-02	--	--	8E-02
			Zinc	N/A	--	--	--	N/A	Blood	3E-03	--	--	3E-03
			Chemical Total	4E-06	--	2E-06	--	6E-06		2E-01	--	4E-02	3E-01
			Radionuclide Total										
		Exposure Point Total						6E-06					3E-01
	Exposure Medium Total							6E-06					3E-01
Medium Total								6E-06					3E-01
Receptor Total								6E-06					3E-01

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 6E-06

Total Hazard Across All Media: 3E-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 Skin HI =	1E-01
Total Nervous System HI =	6E-02
Total Immune System HI =	3E-04
Total Kidney HI =	1E-01
Total Blood HI =	3E-03
Total General Toxicity HI =	3E-03
Total Liver HI =	7E-03
Total Gastrointestinal System HI =	1E-02
Total Cardiovascular HI =	3E-03
Total Developmental HI =	N/A

TABLE 3-9 46 CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult: Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Non-Carcinogenic Hazard Quotient Young Child: Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station TT-31 (Upper Reach 2)	Trichloroethene	--	--	1E-08	--	1E-08	Liver	--	--	2E-03	2E-03
			Arsenic	--	--	1E-08	--	1E-08	Skin	--	--	3E-04	3E-04
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	6E-05	6E-05
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	1E-03	1E-03
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	2E-03	2E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	4E-05	4E-05
			Chemical Total	--	--	3E-08	--	3E-08		--	--	5E-03	5E-03
			Radionuclide Total										
		Exposure Point Total						3E-08					5E-03
	Exposure Medium Total							3E-08					5E-03
Medium Total								3E-08					5E-03
Sediment	Sediment	Station TT-31	Arsenic	1E-07	--	9E-08	--	2E-07	Skin	7E-03	--	4E-03	1E-02
			Barium	N/A	--	--	--	N/A	Cardiovascular	3E-04	--	--	3E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	1E-03	--	4E-03	5E-03
			Chromium III	N/A	--	--	--	N/A	General Toxicity	3E-05	--	--	3E-05
			Copper	N/A	--	--	--	N/A	Kidney	9E-04	--	--	9E-04
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	2E-03	--	--	2E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	3E-03	--	--	3E-03
			Nickel	N/A	--	--	--	N/A	General Toxicity	3E-04	--	--	3E-04
			Vanadium	N/A	--	--	--	N/A	Kidney	1E-02	--	--	1E-02
			Zinc	N/A	--	--	--	N/A	Blood	4E-04	--	--	4E-04
			Chemical Total	1E-07	--	9E-08	--	2E-07		3E-02	--	9E-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					4E-02

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-07

Total Hazard Across All Media: 4E-02

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 2E-07
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 2E-07
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 2E-07

Total Skin HI =	1E-02
Total Nervous System HI =	7E-03
Total Immune System HI =	4E-05
Total Kidney HI =	2E-02
Total Blood HI =	4E-04
Total General Toxicity HI =	3E-04
Total Liver HI =	2E-03
Total Gastrointestinal System HI =	1E-03
Total Cardiovascular HI =	3E-04
Total Developmental HI =	N/A

TABLE 3-9.47.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Surface Water	Station CB-01 (Upper Reach 2)	Trichloroethene	--	--	3E-07	--	3E-07	Liver	--	--	9E-03	9E-03
			Arsenic	--	--	4E-07	--	4E-07	Skin	--	--	4E-03	4E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	5E-04	5E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	2E-02	2E-02
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	1E-02	1E-02
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	4E-04	4E-04
			Chemical Total	--	--	6E-07	--	6E-07		--	--	5E-02	5E-02
			Radionuclide Total										
		Exposure Point Total						6E-07					5E-02
	Exposure Medium Total							6E-07					5E-02
Medium Total								6E-07					5E-02
Sediment	Sediment	Station CB-01	Antimony	N/A	--	--	--	N/A	Blood	1E-02	--	--	1E-02
			Arsenic	1E-05	--	4E-06	--	1E-05	Skin	2E-01	--	6E-02	2E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	2E-03	--	--	2E-03
			Cadmium	N/A	--	N/A	--	N/A	Kidney	2E-02	--	4E-02	6E-02
			Chromium III	N/A	--	--	--	N/A	General Toxicity	4E-04	--	--	4E-04
			Copper	N/A	--	--	--	N/A	Kidney	5E-02	--	--	5E-02
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	2E-02	--	--	2E-02
			Mercury	N/A	--	--	--	N/A	Nervous System	6E-02	--	--	6E-02
			Nickel	N/A	--	--	--	N/A	General Toxicity	2E-03	--	--	2E-03
			Thallium	N/A	--	--	--	N/A	Blood	6E-02	--	--	6E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	2E-01	--	--	2E-01
			Zinc	N/A	--	--	--	N/A	Blood	4E-03	--	--	4E-03
			Chemical Total	1E-05	--	4E-06	--	1E-05		8E-01	--	1E-01	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

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 Skin HI =	3E-01
Total Nervous System HI =	9E-02
Total Immune System HI =	4E-04
Total Kidney HI =	3E-01
Total Blood HI =	7E-02
Total General Toxicity HI =	2E-03
Total Liver HI =	9E-03
Total Gastrointestinal System HI =	2E-02
Total Cardiovascular HI =	2E-03
Total Developmental HI =	N/A

TABLE 3-9.47.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Surface Water	Station CB-01 (Upper Reach 2)	Trichloroethene	--	--	4E-08	--	4E-08	Liver	--	--	5E-03	5E-03
			Arsenic	--	--	3E-08	--	3E-08	Skin	--	--	1E-03	1E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	2E-04	2E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	4E-03	4E-03
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	5E-03	5E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	1E-04	1E-04
			Chemical Total	--	--	8E-08	--	8E-08		--	--	2E-02	2E-02
			Radionuclide Total										
		Exposure Point Total						8E-08					2E-02
	Exposure Medium Total							8E-08					2E-02
Medium Total								8E-08					2E-02
Sediment	Sediment	Station CB-01	Antimony	N/A	--	--	--	N/A	Blood	4E-03	--	--	4E-03
			Arsenic	1E-06	--	9E-07	--	2E-06	Skin	7E-02	--	5E-02	1E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	6E-04	--	--	6E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	7E-03	--	3E-02	4E-02
			Chromium III	N/A	--	--	--	N/A	General Toxicity	2E-04	--	--	2E-04
			Copper	N/A	--	--	--	N/A	Kidney	2E-02	--	--	2E-02
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	7E-03	--	--	7E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	2E-02	--	--	2E-02
			Nickel	N/A	--	--	--	N/A	General Toxicity	7E-04	--	--	7E-04
			Thallium	N/A	--	--	--	N/A	Blood	2E-02	--	--	2E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	6E-02	--	--	6E-02
			Zinc	N/A	--	--	--	N/A	Blood	2E-03	--	--	2E-03
			Chemical Total	1E-06	--	9E-07	--	2E-06		2E-01	--	8E-02	3E-01
			Radionuclide Total										
		Exposure Point Total						2E-06					3E-01
	Exposure Medium Total							2E-06					3E-01
Medium Total								2E-06					3E-01
Receptor Total								2E-06					3E-01

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-06

Total Hazard Across All Media: 3E-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 Skin HI =	1E-01
Total Nervous System HI =	3E-02
Total Immune System HI =	1E-04
Total Kidney HI =	1E-01
Total Blood HI =	3E-02
Total General Toxicity HI =	9E-04
Total Liver HI =	5E-03
Total Gastrointestinal System HI =	4E-03
Total Cardiovascular HI =	6E-04
Total Developmental HI =	N/A

TABLE 3-9 48 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Surface Water	Station CB-02 (Upper Reach 2)	Trichloroethene	--	--	3E-07	--	3E-07	Liver	--	--	9E-03	9E-03
			Arsenic	--	--	4E-07	--	4E-07	Skin	--	--	4E-03	4E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	5E-04	5E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	2E-02	2E-02
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	1E-02	1E-02
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	4E-04	4E-04
			Chemical Total	--	--	6E-07	--	6E-07		--	--	5E-02	5E-02
			Radionuclide Total										
		Exposure Point Total						6E-07					5E-02
	Exposure Medium Total							6E-07					5E-02
Medium Total								6E-07					5E-02
Sediment	Sediment	Station CB-02	Antimony	N/A	--	--	--	N/A	Blood	9E-03	--	--	9E-03
			Arsenic	7E-06	--	3E-06	--	1E-05	Skin	1E-01	--	4E-02	2E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	5E-03	--	--	5E-03
			Cadmium	N/A	--	N/A	--	N/A	Kidney	7E-03	--	2E-02	2E-02
			Chromium III	N/A	--	--	--	N/A	General Toxicity	2E-04	--	--	2E-04
			Copper	N/A	--	--	--	N/A	Kidney	6E-03	--	--	6E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	2E-03	--	--	2E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	6E-03	--	--	6E-03
			Nickel	N/A	--	--	--	N/A	General Toxicity	9E-04	--	--	9E-04
			Vanadium	N/A	--	--	--	N/A	Kidney	6E-02	--	--	6E-02
			Zinc	N/A	--	--	--	N/A	Blood	2E-03	--	--	2E-03
			Chemical Total	7E-06	--	3E-06	--	1E-05		2E-01	--	6E-02	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

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 Skin HI =	2E-01
Total Nervous System HI =	2E-02
Total Immune System HI =	4E-04
Total Kidney HI =	9E-02
Total Blood HI =	1E-02
Total General Toxicity HI =	1E-03
Total Liver HI =	9E-03
Total Gastrointestinal System HI =	2E-02
Total Cardiovascular HI =	5E-03
Total Developmental HI =	N/A

TABLE 3-9.48 CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Surface Water	Station CB-02 (Upper Reach 2)	Trichloroethene	--	--	4E-08	--	4E-08	Liver	--	--	5E-03	5E-03
			Arsenic	--	--	3E-08	--	3E-08	Skin	--	--	1E-03	1E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	2E-04	2E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	4E-03	4E-03
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	5E-03	5E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	1E-04	1E-04
			Chemical Total	--	--	8E-08	--	8E-08		--	--	2E-02	2E-02
			Radionuclide Total										
		Exposure Point Total						8E-08					2E-02
	Exposure Medium Total							8E-08					2E-02
Medium Total								8E-08					2E-02
Sediment	Sediment	Station CB-02											
			Antimony	N/A	--	--	--	N/A	Blood	3E-03	--	--	3E-03
			Arsenic	9E-07	--	7E-07	--	2E-06	Skin	5E-02	--	3E-02	8E-02
			Barium	N/A	--	--	--	N/A	Cardiovascular	2E-03	--	--	2E-03
			Cadmium	N/A	--	N/A	--	N/A	Kidney	3E-03	--	1E-02	1E-02
			Chromium III	N/A	--	--	--	N/A	General Toxicity	7E-05	--	--	7E-05
			Copper	N/A	--	--	--	N/A	Kidney	2E-03	--	--	2E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	7E-04	--	--	7E-04
			Mercury	N/A	--	--	--	N/A	Nervous System	2E-03	--	--	2E-03
			Nickel	N/A	--	--	--	N/A	General Toxicity	4E-04	--	--	4E-04
			Vanadium	N/A	--	--	--	N/A	Kidney	2E-02	--	--	2E-02
			Zinc	N/A	--	--	--	N/A	Blood	7E-04	--	--	7E-04
			Chemical Total	9E-07	--	7E-07	--	2E-06		9E-02	--	5E-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

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 Skin HI =	8E-02
Total Nervous System HI =	8E-03
Total Immune System HI =	1E-04
Total Kidney HI =	4E-02
Total Blood HI =	4E-03
Total General Toxicity HI =	4E-04
Total Liver HI =	5E-03
Total Gastrointestinal System HI =	4E-03
Total Cardiovascular HI =	2E-03
Total Developmental HI =	N/A

TABLE 3-9.49.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Surface Water	Station CB-03 (Upper Reach 2)	Trichloroethene	--	--	3E-07	--	3E-07	Liver	--	--	9E-03	9E-03
			Arsenic	--	--	4E-07	--	4E-07	Skin	--	--	4E-03	4E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	5E-04	5E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	2E-02	2E-02
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	1E-02	1E-02
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	4E-04	4E-04
			Chemical Total	--	--	6E-07	--	6E-07		--	--	5E-02	5E-02
			Radionuclide Total										
		Exposure Point Total						6E-07					5E-02
	Exposure Medium Total							6E-07					5E-02
Medium Total								6E-07					5E-02
Sediment	Sediment	Station CB-03	Antimony	N/A	--	--	--	N/A	Blood	2E-02	--	--	2E-02
			Arsenic	1E-04	--	4E-05	--	1E-04	Skin	2E+00	--	6E-01	3E+00
			Barium	N/A	--	--	--	N/A	Cardiovascular	2E-03	--	--	2E-03
			Cadmium	N/A	--	N/A	--	N/A	Kidney	2E-02	--	6E-02	8E-02
			Chromium III	N/A	--	--	--	N/A	General Toxicity	1E-03	--	--	1E-03
			Copper	N/A	--	--	--	N/A	Kidney	2E-02	--	--	2E-02
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	1E-02	--	--	1E-02
			Mercury	N/A	--	--	--	N/A	Nervous System	5E-02	--	--	5E-02
			Nickel	N/A	--	--	--	N/A	General Toxicity	4E-03	--	--	4E-03
			Thallium	N/A	--	--	--	N/A	Blood	2E-02	--	--	2E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	1E-01	--	--	1E-01
			Zinc	N/A	--	--	--	N/A	Blood	1E-02	--	--	1E-02
			Chemical Total	1E-04	--	4E-05	--	1E-04		2E+00	--	7E-01	3E+00
			Radionuclide Total										
		Exposure Point Total						1E-04					3E+00
	Exposure Medium Total							1E-04					3E+00
Medium Total								1E-04					3E+00
Receptor Total								1E-04					3E+00

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-04

Total Hazard Across All Media: 3E+00

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 1E-04
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 1E-04
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 1E-04

Total Skin HI =	3E+00
Total Nervous System HI =	7E-02
Total Immune System HI =	4E-04
Total Kidney HI =	2E-01
Total Blood HI =	6E-02
Total General Toxicity HI =	4E-03
Total Liver HI =	9E-03
Total Gastrointestinal System HI =	2E-02
Total Cardiovascular HI =	2E-03
Total Developmental HI =	N/A

TABLE 3-9.49.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Surface Water	Station CB-03 (Upper Reach 2)	Trichloroethene	--	--	4E-08	--	4E-08	Liver	--	--	5E-03	5E-03
			Arsenic	--	--	3E-08	--	3E-08	Skin	--	--	1E-03	1E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	2E-04	2E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	4E-03	4E-03
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	5E-03	5E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	1E-04	1E-04
			Chemical Total	--	--	8E-08	--	8E-08		--	--	2E-02	2E-02
			Radionuclide Total										
		Exposure Point Total						8E-08					2E-02
	Exposure Medium Total							8E-08					2E-02
Medium Total								8E-08					2E-02
Sediment	Sediment	Station CB-03	Antimony	N/A	--	--	--	N/A	Blood	3E-03	--	--	3E-03
			Arsenic	1E-05	--	9E-06	--	2E-05	Skin	7E-01	--	5E-01	1E+00
			Barium	N/A	--	--	--	N/A	Cardiovascular	7E-04	--	--	7E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	9E-03	--	4E-02	5E-02
			Chromium III	N/A	--	--	--	N/A	General Toxicity	2E-04	--	--	2E-04
			Copper	N/A	--	--	--	N/A	Kidney	9E-03	--	--	9E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	5E-03	--	--	5E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	2E-02	--	--	2E-02
			Nickel	N/A	--	--	--	N/A	General Toxicity	1E-03	--	--	1E-03
			Thallium	N/A	--	--	--	N/A	Blood	9E-03	--	--	9E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	4E-02	--	--	4E-02
			Zinc	N/A	--	--	--	N/A	Blood	5E-03	--	--	5E-03
			Chemical Total	1E-05	--	9E-06	--	2E-05		8E-01	--	5E-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

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

TABLE 3-9.50.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Surface Water	Station CB-04 (Upper Reach 2)	Trichloroethene	--	--	3E-07	--	3E-07	Liver	--	--	9E-03	9E-03
			Arsenic	--	--	4E-07	--	4E-07	Skin	--	--	4E-03	4E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	5E-04	5E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	2E-02	2E-02
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	1E-02	1E-02
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	4E-04	4E-04
			Chemical Total	--	--	6E-07	--	6E-07		--	--	5E-02	5E-02
			Radionuclide Total										
		Exposure Point Total						6E-07					5E-02
	Exposure Medium Total							6E-07					5E-02
Medium Total								6E-07					5E-02
Sediment	Sediment	Station CB-04	Antimony	N/A	--	--	--	N/A	Blood	2E-02	--	--	2E-02
			Arsenic	3E-05	--	1E-05	--	4E-05	Skin	6E-01	--	2E-01	8E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	2E-03	--	--	2E-03
			Cadmium	N/A	--	N/A	--	N/A	Kidney	1E-02	--	2E-02	4E-02
			Chromium III	N/A	--	--	--	N/A	General Toxicity	3E-04	--	--	3E-04
			Copper	N/A	--	--	--	N/A	Kidney	2E-02	--	--	2E-02
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	4E-02	--	--	4E-02
			Mercury	N/A	--	--	--	N/A	Nervous System	2E-02	--	--	2E-02
			Nickel	N/A	--	--	--	N/A	General Toxicity	7E-03	--	--	7E-03
			Thallium	N/A	--	--	--	N/A	Blood	1E-01	--	--	1E-01
			Vanadium	N/A	--	--	--	N/A	Kidney	1E-01	--	--	1E-01
			Zinc	N/A	--	--	--	N/A	Blood	2E-02	--	--	2E-02
			Chemical Total	3E-05	--	1E-05	--	4E-05		1E+00	--	2E-01	1E+00
			Radionuclide Total										
		Exposure Point Total						4E-05					1E+00
	Exposure Medium Total							4E-05					1E+00
Medium Total								4E-05					1E+00
Receptor Total								5E-05					1E+00

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 5E-05

Total Hazard Across All Media: 1E+00

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 4E-05
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 4E-05
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 4E-05

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

TABLE 3-9.50.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Surface Water	Station CB-04 (Upper Reach 2)	Trichloroethene	--	--	4E-08	--	4E-08	Liver	--	--	5E-03	5E-03
			Arsenic	--	--	3E-08	--	3E-08	Skin	--	--	1E-03	1E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	2E-04	2E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	4E-03	4E-03
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	5E-03	5E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	1E-04	1E-04
			Chemical Total	--	--	8E-08	--	8E-08		--	--	2E-02	2E-02
			Radionuclide Total										
		Exposure Point Total						8E-08					2E-02
	Exposure Medium Total							8E-08					2E-02
Medium Total								8E-08					2E-02
Sediment	Sediment	Station CB-04	Antimony	N/A	--	--	--	N/A	Blood	8E-03	--	--	8E-03
			Arsenic	4E-06	--	3E-06	--	7E-06	Skin	2E-01	--	1E-01	4E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	8E-04	--	--	8E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	4E-03	--	2E-02	2E-02
			Chromium III	N/A	--	--	--	N/A	General Toxicity	1E-04	--	--	1E-04
			Copper	N/A	--	--	--	N/A	Kidney	6E-03	--	--	6E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	1E-02	--	--	1E-02
			Mercury	N/A	--	--	--	N/A	Nervous System	9E-03	--	--	9E-03
			Nickel	N/A	--	--	--	N/A	General Toxicity	3E-03	--	--	3E-03
			Thallium	N/A	--	--	--	N/A	Blood	1E-02	--	--	1E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	5E-02	--	--	5E-02
			Zinc	N/A	--	--	--	N/A	Blood	7E-03	--	--	7E-03
			Chemical Total	4E-06	--	3E-06	--	7E-06		3E-01	--	2E-01	5E-01
			Radionuclide Total										
		Exposure Point Total						7E-06					5E-01
	Exposure Medium Total							7E-06					5E-01
Medium Total								7E-06					5E-01
Receptor Total								7E-06					5E-01

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 7E-06

Total Hazard Across All Media: 5E-01

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 Skin HI =	4E-01
Total Nervous System HI =	3E-02
Total Immune System HI =	1E-04
Total Kidney HI =	8E-02
Total Blood HI =	3E-02
Total General Toxicity HI =	3E-03
Total Liver HI =	5E-03
Total Gastrointestinal System HI =	4E-03
Total Cardiovascular HI =	8E-04
Total Developmental HI =	N/A

TABLE 3-9.51.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Soil	Surface Soil	Station CB-05											
			Arsenic	2E-05	--	4E-06	--	2E-05	Skin	4E-01	--	6E-02	4E-01
			Cadmium	N/A	--	N/A	--	N/A	Kidney	1E-03	--	3E-03	4E-03
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	9E-02	--	--	9E-02
			Copper	N/A	--	--	--	N/A	Kidney	3E-03	--	--	3E-03
			Manganese	N/A	--	--	--	N/A	Nervous System	6E-03	--	--	6E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	5E-03	--	--	5E-03
			Thallium	N/A	--	--	--	N/A	Blood	4E-02	--	--	4E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	5E-02	--	--	5E-02
			Zinc	N/A	--	--	--	N/A	Blood	1E-03	--	--	1E-03
			Chemical Total	2E-05	--	4E-06	--	2E-05		6E-01	--	7E-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 Skin HI =	4E-01
Total Nervous System HI =	1E-02
Total Immune System HI =	N/A
Total Kidney HI =	6E-02
Total Blood HI =	4E-02
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	9E-02
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.51.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Soil	Surface Soil	Station CB-05											
			Arsenic	1E-05	--	9E-07	--	1E-05	Skin	3E-01	--	5E-02	3E-01
			Cadmium	N/A	--	N/A	--	N/A	Kidney	1E-03	--	2E-03	3E-03
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	7E-02	--	--	7E-02
			Copper	N/A	--	--	--	N/A	Kidney	2E-03	--	--	2E-03
			Manganese	N/A	--	--	--	N/A	Nervous System	5E-03	--	--	5E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	4E-03	--	--	4E-03
			Thallium	N/A	--	--	--	N/A	Blood	3E-02	--	--	3E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	4E-02	--	--	4E-02
			Zinc	N/A	--	--	--	N/A	Blood	8E-04	--	--	8E-04
			Chemical Total	1E-05	--	9E-07	--	1E-05		4E-01	--	5E-02	5E-01
			Radionuclide Total										
		Exposure Point Total						1E-05					5E-01
	Exposure Medium Total							1E-05					5E-01
Medium Total								1E-05					5E-01
Receptor Total								1E-05					5E-01

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-05

Total Hazard Across All Media: 5E-01

Total Skin HI =	3E-01
Total Nervous System HI =	9E-03
Total Immune System HI =	N/A
Total Kidney HI =	4E-02
Total Blood HI =	3E-02
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	7E-02
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.52.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Surface Water	Station CB-06 (Upper Reach 2)	Trichloroethene	--	--	3E-07	--	3E-07	Liver	--	--	9E-03	9E-03
			Arsenic	--	--	4E-07	--	4E-07	Skin	--	--	4E-03	4E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	5E-04	5E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	2E-02	2E-02
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	1E-02	1E-02
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	4E-04	4E-04
			Chemical Total	--	--	6E-07	--	6E-07		--	--	5E-02	5E-02
			Radionuclide Total										
		Exposure Point Total						6E-07					5E-02
	Exposure Medium Total							6E-07					5E-02
Medium Total								6E-07					5E-02
Sediment	Sediment	Station CB-06	Antimony	N/A	--	--	--	N/A	Blood	2E-02	--	--	2E-02
			Arsenic	3E-05	--	9E-06	--	3E-05	Skin	5E-01	--	1E-01	6E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	1E-03	--	--	1E-03
			Cadmium	N/A	--	N/A	--	N/A	Kidney	3E-02	--	7E-02	1E-01
			Chromium III	N/A	--	--	--	N/A	General Toxicity	6E-04	--	--	6E-04
			Copper	N/A	--	--	--	N/A	Kidney	1E-02	--	--	1E-02
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	3E-03	--	--	3E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	6E-03	--	--	6E-03
			Nickel	N/A	--	--	--	N/A	General Toxicity	3E-03	--	--	3E-03
			Thallium	N/A	--	--	--	N/A	Blood	1E-01	--	--	1E-01
			Vanadium	N/A	--	--	--	N/A	Kidney	1E-01	--	--	1E-01
			Zinc	N/A	--	--	--	N/A	Blood	1E-02	--	--	1E-02
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	4E-04	--	--	4E-04
			Chemical Total	3E-05	--	9E-06	--	3E-05		8E-01	--	2E-01	1E+00
			Radionuclide Total										
		Exposure Point Total						3E-05					1E+00
	Exposure Medium Total							3E-05					1E+00
Medium Total								3E-05					1E+00
Receptor Total								3E-05					1E+00

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-05

Total Hazard Across All Media: 1E+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 Skin HI =	6E-01
Total Nervous System HI =	2E-02
Total Immune System HI =	4E-04
Total Kidney HI =	3E-01
Total Blood HI =	1E-01
Total General Toxicity HI =	3E-03
Total Liver HI =	9E-03
Total Gastrointestinal System HI =	2E-02
Total Cardiovascular HI =	1E-03
Total Developmental HI =	N/A

TABLE 3-9.52.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Surface Water	Station CB-06 (Upper Reach 2)	Trichloroethene	--	--	4E-08	--	4E-08	Liver	--	--	5E-03	5E-03
			Arsenic	--	--	3E-08	--	3E-08	Skin	--	--	1E-03	1E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	2E-04	2E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	4E-03	4E-03
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	5E-03	5E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	1E-04	1E-04
			Chemical Total	--	--	8E-08	--	8E-08		--	--	2E-02	2E-02
			Radionuclide Total										
		Exposure Point Total						8E-08					2E-02
	Exposure Medium Total							8E-08					2E-02
Medium Total								8E-08					2E-02
Sediment	Sediment	Station CB-06	Antimony	N/A	--	--	--	N/A	Blood	8E-03	--	--	8E-03
			Arsenic	3E-06	--	2E-06	--	5E-06	Skin	2E-01	--	1E-01	3E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	5E-04	--	--	5E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	1E-02	--	5E-02	7E-02
			Chromium III	N/A	--	--	--	N/A	General Toxicity	2E-04	--	--	2E-04
			Copper	N/A	--	--	--	N/A	Kidney	6E-03	--	--	6E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	1E-03	--	--	1E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	2E-03	--	--	2E-03
			Nickel	N/A	--	--	--	N/A	General Toxicity	1E-03	--	--	1E-03
			Thallium	N/A	--	--	--	N/A	Blood	4E-02	--	--	4E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	5E-02	--	--	5E-02
			Zinc	N/A	--	--	--	N/A	Blood	5E-03	--	--	5E-03
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	2E-04	--	--	2E-04
			Chemical Total	3E-06	--	2E-06	--	5E-06		3E-01	--	2E-01	5E-01
			Radionuclide Total										
		Exposure Point Total						5E-06					5E-01
	Exposure Medium Total							5E-06					5E-01
Medium Total								5E-06					5E-01
Receptor Total								5E-06					5E-01

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 5E-06

Total Hazard Across All Media: 5E-01

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 5E-06
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 5E-06
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 5E-06

Total Skin HI =	3E-01
Total Nervous System HI =	8E-03
Total Immune System HI =	1E-04
Total Kidney HI =	1E-01
Total Blood HI =	5E-02
Total General Toxicity HI =	1E-03
Total Liver HI =	5E-03
Total Gastrointestinal System HI =	5E-03
Total Cardiovascular HI =	5E-04
Total Developmental HI =	N/A

TABLE 3-9.53.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Surface Water	Station CB-07 (Upper Reach 2)	Trichloroethene	--	--	6E-08	--	6E-08	Liver	--	--	2E-03	2E-03
			Arsenic	--	--	9E-08	--	9E-08	Skin	--	--	9E-04	9E-04
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	1E-04	1E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	4E-03	4E-03
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	4E-03	4E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	9E-05	9E-05
			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	Station CB-07	Arsenic	9E-06	--	3E-06	--	1E-05	Skin	2E-01	--	6E-02	2E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	4E-04	--	--	4E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	2E-03	--	5E-03	8E-03
			Chromium III	N/A	--	--	--	N/A	General Toxicity	2E-04	--	--	2E-04
			Copper	N/A	--	--	--	N/A	Kidney	7E-03	--	--	7E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	4E-03	--	--	4E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	6E-03	--	--	6E-03
			Nickel	N/A	--	--	--	N/A	General Toxicity	5E-04	--	--	5E-04
			Vanadium	N/A	--	--	--	N/A	Kidney	4E-02	--	--	4E-02
			Zinc	N/A	--	--	--	N/A	Blood	1E-03	--	--	1E-03
			Chemical Total	9E-06	--	3E-06	--	1E-05		2E-01	--	6E-02	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

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 Skin HI =	2E-01
Total Nervous System HI =	1E-02
Total Immune System HI =	9E-05
Total Kidney HI =	6E-02
Total Blood HI =	1E-03
Total General Toxicity HI =	7E-04
Total Liver HI =	2E-03
Total Gastrointestinal System HI =	4E-03
Total Cardiovascular HI =	4E-04
Total Developmental HI =	N/A

TABLE 3-9.53 CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult: Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Non-Carcinogenic Hazard Quotient Young Child: Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station CB-07 (Upper Reach 2)	Trichloroethene	--	--	1E-08	--	1E-08	Liver	--	--	2E-03	2E-03
			Arsenic	--	--	1E-08	--	1E-08	Skin	--	--	3E-04	3E-04
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	6E-05	6E-05
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	1E-03	1E-03
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	2E-03	2E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	4E-05	4E-05
			Chemical Total	--	--	3E-08	--	3E-08		--	--	5E-03	5E-03
			Radionuclide Total										
		Exposure Point Total						3E-08					5E-03
	Exposure Medium Total							3E-08					5E-03
Medium Total								3E-08					5E-03
Sediment	Sediment	Station CB-07	Arsenic	2E-06	--	1E-06	--	3E-06	Skin	9E-02	--	6E-02	1E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	2E-04	--	--	2E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	1E-03	--	5E-03	6E-03
			Chromium III	N/A	--	--	--	N/A	General Toxicity	1E-04	--	--	1E-04
			Copper	N/A	--	--	--	N/A	Kidney	1E-03	--	--	1E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	1E-03	--	--	1E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	3E-03	--	--	3E-03
			Nickel	N/A	--	--	--	N/A	General Toxicity	3E-04	--	--	3E-04
			Vanadium	N/A	--	--	--	N/A	Kidney	2E-02	--	--	2E-02
			Zinc	N/A	--	--	--	N/A	Blood	5E-04	--	--	5E-04
			Chemical Total	2E-06	--	1E-06	--	3E-06		1E-01	--	6E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						3E-06					2E-01
	Exposure Medium Total							3E-06					2E-01
Medium Total								3E-06					2E-01
Receptor Total								3E-06					2E-01

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media	3E-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	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 Skin HI =	1E-01
Total Nervous System HI =	6E-03
Total Immune System HI =	4E-05
Total Kidney HI =	3E-02
Total Blood HI =	5E-04
Total General Toxicity HI =	4E-04
Total Liver HI =	2E-03
Total Gastrointestinal System HI =	1E-03
Total Cardiovascular HI =	2E-04
Total Developmental HI =	N/A

TABLE 3-9.54 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult: Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Non-Carcinogenic Hazard Quotient Young Child: Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 16/TT-33 (Upper Reach 2)	Trichloroethene	--	--	2E-07	--	2E-07	Liver	--	--	7E-03	7E-03
			Arsenic	--	--	3E-07	--	3E-07	Skin	--	--	3E-03	3E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	4E-04	4E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	1E-02	1E-02
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	1E-02	1E-02
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	3E-04	3E-04
			Chemical Total	--	--	5E-07	--	5E-07		--	--	3E-02	3E-02
			Radionuclide Total										
		Exposure Point Total						5E-07					3E-02
	Exposure Medium Total							5E-07					3E-02
Medium Total								5E-07					3E-02
Sediment	Sediment	Station 16/TT-33	Benzo(a)anthracene	1E-08	--	1E-08	--	3E-08	N/A	N/A	--	N/A	N/A
			Benzo(a)pyrene	2E-07	--	1E-07	--	3E-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
			Benzo(k)fluoranthene	1E-09	--	1E-09	--	2E-09	N/A	N/A	--	N/A	N/A
			Indeno(1,2,3-cd)pyrene	8E-09	--	6E-09	--	1E-08	N/A	N/A	--	N/A	N/A
			Phenanthrene	N/A	--	N/A	--	N/A	General Toxicity	9E-06	--	7E-06	2E-05
			Antimony	N/A	--	--	--	N/A	Blood	2E-02	--	--	2E-02
			Arsenic	3E-05	--	1E-05	--	4E-05	Skin	6E-01	--	2E-01	8E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	1E-03	--	--	1E-03
			Cadmium	N/A	--	N/A	--	N/A	Kidney	8E-03	--	2E-02	3E-02
			Chromium III	N/A	--	--	--	N/A	General Toxicity	2E-03	--	--	2E-03
			Copper	N/A	--	--	--	N/A	Kidney	2E-02	--	--	2E-02
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	2E-02	--	--	2E-02
			Mercury	N/A	--	--	--	N/A	Nervous System	5E-02	--	--	5E-02
			Nickel	N/A	--	--	--	N/A	General Toxicity	1E-03	--	--	1E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	4E-02	--	--	4E-02
			Zinc	N/A	--	--	--	N/A	Blood	4E-03	--	--	4E-03
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	1E-03	--	--	1E-03
			Chemical Total	3E-05	--	1E-05	--	4E-05		7E-01	--	2E-01	9E-01
			Radionuclide Total										
		Exposure Point Total						4E-05					9E-01
	Exposure Medium Total							4E-05					9E-01
Medium Total								4E-05					9E-01
Receptor Total								4E-05					1E+00

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 4E-05

Total Hazard Across All Media: 1E+00

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 4E-05
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 4E-05
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 4E-05

Total Skin HI =	8E-01
Total Nervous System HI =	8E-02
Total Immune System HI =	3E-04
Total Kidney HI =	9E-02
Total Blood HI =	3E-02
Total General Toxicity HI =	3E-03
Total Liver HI =	7E-03
Total Gastrointestinal System HI =	1E-02
Total Cardiovascular HI =	1E-03
Total Developmental HI =	N/A

TABLE 3-9.54 CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Surface Water	Station 18/TT-33 (Upper Reach 2)	Trichloroethene	--	--	1E-08	--	1E-08	Liver	--	--	2E-03	2E-03
			Arsenic	--	--	1E-08	--	1E-08	Skin	--	--	3E-04	3E-04
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	6E-05	6E-05
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	1E-03	1E-03
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	2E-03	2E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	4E-05	4E-05
			Chemical Total	--	--	3E-08	--	3E-08		--	--	5E-03	5E-03
			Radionuclide Total										
		Exposure Point Total						3E-08					5E-03
	Exposure Medium Total							3E-08					5E-03
Medium Total								3E-08					5E-03
Sediment	Sediment	Station 18/TT-33	Benzo(a)anthracene	7E-10	--	1E-09	--	2E-09	N/A	N/A	--	N/A	N/A
			Benzo(a)pyrene	1E-08	--	2E-08	--	3E-08	N/A	N/A	--	N/A	N/A
			Benzo(b)fluoranthene	2E-09	--	3E-09	--	4E-09	N/A	N/A	--	N/A	N/A
			Benzo(k)fluoranthene	7E-11	--	1E-10	--	2E-10	N/A	N/A	--	N/A	N/A
			Indeno(1,2,3-cd)pyrene	4E-10	--	7E-10	--	1E-09	N/A	N/A	--	N/A	N/A
			Phenanthrene	N/A	--	N/A	--	N/A	General Toxicity	2E-06	--	2E-06	4E-06
			Antimony	N/A	--	--	--	N/A	Blood	3E-03	--	--	3E-03
			Arsenic	2E-06	--	1E-06	--	3E-06	Skin	1E-01	--	6E-02	2E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	2E-04	--	--	2E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	1E-03	--	6E-03	7E-03
			Chromium III	N/A	--	--	--	N/A	General Toxicity	9E-05	--	--	9E-05
			Copper	N/A	--	--	--	N/A	Kidney	3E-03	--	--	3E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	1E-03	--	--	1E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	8E-03	--	--	8E-03
			Nickel	N/A	--	--	--	N/A	General Toxicity	2E-04	--	--	2E-04
			Vanadium	N/A	--	--	--	N/A	Kidney	7E-03	--	--	7E-03
			Zinc	N/A	--	--	--	N/A	Blood	7E-04	--	--	7E-04
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	6E-05	--	--	6E-05
			Chemical Total	2E-06	--	1E-06	--	3E-06		1E-01	--	7E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						3E-06					2E-01
	Exposure Medium Total							3E-06					2E-01
Medium Total								3E-06					2E-01
Receptor Total								3E-06					2E-01

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-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: 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 Skin HI =	2E-01
Total Nervous System HI =	1E-02
Total Immune System HI =	4E-05
Total Kidney HI =	2E-02
Total Blood HI =	4E-03
Total General Toxicity HI =	3E-04
Total Liver HI =	2E-03
Total Gastrointestinal System HI =	2E-03
Total Cardiovascular HI =	2E-04
Total Developmental HI =	N/A

TABLE 3-9.55 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Surface Water	Station 09 (Upper Reach 2)	Trichloroethene	--	--	2E-07	--	2E-07	Liver	--	--	7E-03	7E-03
			Arsenic	--	--	3E-07	--	3E-07	Skin	--	--	3E-03	3E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	4E-04	4E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	1E-02	1E-02
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	1E-02	1E-02
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	3E-04	3E-04
			Chemical Total	--	--	5E-07	--	5E-07		--	--	3E-02	3E-02
			Radionuclide Total										
		Exposure Point Total						5E-07					3E-02
	Exposure Medium Total							5E-07					3E-02
Medium Total								5E-07					3E-02
Sediment	Sediment	Station 09	Benzo(a)anthracene	6E-08	--	5E-08	--	1E-07	N/A	N/A	--	N/A	N/A
			Benzo(a)pyrene	6E-07	--	5E-07	--	1E-06	N/A	N/A	--	N/A	N/A
			Benzo(b)fluoranthene	2E-07	--	1E-07	--	3E-07	N/A	N/A	--	N/A	N/A
			Benzo(k)fluoranthene	2E-08	--	1E-08	--	3E-08	N/A	N/A	--	N/A	N/A
			Dibenz(a,h)anthracene	1E-07	--	8E-08	--	2E-07	N/A	N/A	--	N/A	N/A
			Indeno(1,2,3-cd)pyrene	3E-08	--	3E-08	--	6E-08	N/A	N/A	--	N/A	N/A
			Phenanthrene	N/A	--	N/A	--	N/A	General Toxicity	1E-04	--	1E-04	2E-04
			Antimony	N/A	--	--	--	N/A	Blood	4E-03	--	--	4E-03
			Arsenic	5E-06	--	2E-06	--	6E-06	Skin	8E-02	--	3E-02	1E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	7E-04	--	--	7E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	1E-03	--	2E-03	3E-03
			Chromium III	N/A	--	--	--	N/A	General Toxicity	6E-05	--	--	6E-05
			Copper	N/A	--	--	--	N/A	Kidney	3E-03	--	--	3E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	5E-02	--	--	5E-02
			Mercury	N/A	--	--	--	N/A	Nervous System	5E-03	--	--	5E-03
			Nickel	N/A	--	--	--	N/A	General Toxicity	7E-04	--	--	7E-04
			Thallium	N/A	--	--	--	N/A	Blood	2E-02	--	--	2E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	2E-02	--	--	2E-02
			Zinc	N/A	--	--	--	N/A	Blood	1E-03	--	--	1E-03
			Chemical Total	6E-06	--	3E-06	--	8E-06		2E-01	--	3E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						8E-06					2E-01
	Exposure Medium Total							8E-06					2E-01
Medium Total								8E-06					2E-01
Receptor Total								9E-06					3E-01

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 9E-06

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 9E-06
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 9E-06
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 9E-06

Total Hazard Across All Media: 3E-01

Total Skin HI =	1E-01
Total Nervous System HI =	7E-02
Total Immune System HI =	3E-04
Total Kidney HI =	3E-02
Total Blood HI =	3E-02
Total General Toxicity HI =	1E-03
Total Liver HI =	7E-03
Total Gastrointestinal System HI =	1E-02
Total Cardiovascular HI =	7E-04
Total Developmental HI =	N/A

TABLE 3-9.55.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult: Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Non-Carcinogenic Hazard Quotient Young Child: Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 09 (Upper Reach 2)	Trichloroethene	--	--	1E-08	--	1E-08	Liver	--	--	2E-03	2E-03
			Arsenic	--	--	1E-08	--	1E-08	Skin	--	--	3E-04	3E-04
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	5E-05	6E-05
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	1E-03	1E-03
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	2E-03	2E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	4E-05	4E-05
			Chemical Total	--	--	3E-08	--	3E-08		--	--	5E-03	5E-03
			Radionuclide Total										
		Exposure Point Total						3E-08					5E-03
	Exposure Medium Total							3E-08					5E-03
Medium Total								3E-08					5E-03
Sediment	Sediment	Station 09	Benzo(a)anthracene	3E-09	--	5E-09	--	9E-09	N/A	N/A	--	N/A	N/A
			Benzo(a)pyrene	3E-08	--	6E-08	--	9E-08	N/A	N/A	--	N/A	N/A
			Benzo(b)fluoranthene	9E-09	--	1E-08	--	2E-08	N/A	N/A	--	N/A	N/A
			Benzo(k)fluoranthene	8E-10	--	1E-09	--	2E-09	N/A	N/A	--	N/A	N/A
			Dibenz(a,h)anthracene	5E-09	--	9E-09	--	1E-08	N/A	N/A	--	N/A	N/A
			Indeno(1,2,3-cd)pyrene	2E-09	--	3E-09	--	5E-09	N/A	N/A	--	N/A	N/A
			Phenanthrene	N/A	--	N/A	--	N/A	General Toxicity	4E-06	--	5E-06	9E-06
			Antimony	N/A	--	--	--	N/A	Blood	6E-04	--	--	6E-04
			Arsenic	3E-07	--	2E-07	--	4E-07	Skin	1E-02	--	9E-03	2E-02
			Barium	N/A	--	--	--	N/A	Cardiovascular	1E-04	--	--	1E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	2E-04	--	7E-04	9E-04
			Chromium III	N/A	--	--	--	N/A	General Toxicity	9E-06	--	--	9E-06
			Copper	N/A	--	--	--	N/A	Kidney	5E-04	--	--	5E-04
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	1E-03	--	--	1E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	9E-04	--	--	9E-04
			Nickel	N/A	--	--	--	N/A	General Toxicity	1E-04	--	--	1E-04
			Thallium	N/A	--	--	--	N/A	Blood	4E-03	--	--	4E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	3E-03	--	--	3E-03
			Zinc	N/A	--	--	--	N/A	Blood	2E-04	--	--	2E-04
			Chemical Total	3E-07	--	3E-07	--	6E-07		2E-02	--	1E-02	3E-02
			Radionuclide Total										
		Exposure Point Total						6E-07					3E-02
	Exposure Medium Total							6E-07					3E-02
Medium Total								6E-07					3E-02
Receptor Total								6E-07					4E-02

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 6E-07

Total Hazard Across All Media: 4E-02

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 6E-07
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 6E-07
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 6E-07

Total Skin HI =	2E-02
Total Nervous System HI =	4E-03
Total Immune System HI =	4E-05
Total Kidney HI =	5E-03
Total Blood HI =	5E-03
Total General Toxicity HI =	1E-04
Total Liver HI =	2E-03
Total Gastrointestinal System HI =	1E-03
Total Cardiovascular HI =	1E-04
Total Developmental HI =	N/A

TABLE 3-9.56.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Surface Water	Station DA (Upper Reach 2)	Trichloroethene	--	--	2E-07	--	2E-07	Liver	--	--	7E-03	7E-03
			Arsenic	--	--	3E-07	--	3E-07	Skin	--	--	3E-03	3E-03
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	4E-04	4E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	1E-02	1E-02
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	1E-02	1E-02
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	3E-04	3E-04
			Chemical Total	--	--	5E-07	--	5E-07		--	--	3E-02	3E-02
			Radionuclide Total										
		Exposure Point Total						5E-07					3E-02
	Exposure Medium Total							5E-07					3E-02
Medium Total								5E-07					3E-02
Soil	Surface Soil	Station DA											
			Arsenic	5E-05	--	1E-05	--	6E-05	Skin	9E-01	--	2E-01	1E+00
			Cadmium	N/A	--	N/A	--	N/A	Kidney	7E-03	--	1E-02	2E-02
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	2E-01	--	--	2E-01
			Copper	N/A	--	--	--	N/A	Kidney	1E-02	--	--	1E-02
			Manganese	N/A	--	--	--	N/A	Nervous System	6E-02	--	--	6E-02
			Mercury	N/A	--	--	--	N/A	Nervous System	5E-02	--	--	5E-02
			Thallium	N/A	--	--	--	N/A	Blood	6E-02	--	--	6E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	5E-02	--	--	5E-02
			Zinc	N/A	--	--	--	N/A	Blood	3E-03	--	--	3E-03
			Chemical Total	5E-05	--	1E-05	--	6E-05		1E+00	--	2E-01	2E+00
			Radionuclide Total										
		Exposure Point Total						6E-05					2E+00
	Exposure Medium Total							6E-05					2E+00
Medium Total								6E-05					2E+00
Receptor Total								6E-05					2E+00

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 6E-05

Total Hazard Across All Media: 2E+00

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 6E-05
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 6E-05
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 6E-05

Total Skin HI =	1E+00
Total Nervous System HI =	1E-01
Total Immune System HI =	3E-04
Total Kidney HI =	9E-02
Total Blood HI =	6E-02
Total General Toxicity HI =	N/A
Total Liver HI =	7E-03
Total Gastrointestinal System HI =	2E-01
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.56.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult: Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Non-Carcinogenic Hazard Quotient Young Child: Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station DA (Upper Reach 2)	Trichloroethene	--	--	1E-08	--	1E-08	Liver	--	--	2E-03	2E-03
			Arsenic	--	--	1E-08	--	1E-08	Skin	--	--	3E-04	3E-04
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	6E-05	6E-05
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	1E-03	1E-03
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	2E-03	2E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	4E-05	4E-05
			Chemical Total	--	--	3E-08	--	3E-08		--	--	5E-03	5E-03
			Radionuclide Total										
		Exposure Point Total						3E-08					5E-03
	Exposure Medium Total							3E-08					5E-03
Medium Total								3E-08					5E-03
Soil	Surface Soil	Station DA	Arsenic	3E-06	--	1E-06	--	4E-06	Skin	2E-01	--	5E-02	2E-01
			Cadmium	N/A	--	N/A	--	N/A	Kidney	3E-04	--	1E-03	2E-03
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	3E-02	--	--	3E-02
			Copper	N/A	--	--	--	N/A	Kidney	2E-03	--	--	2E-03
			Manganese	N/A	--	--	--	N/A	Nervous System	3E-03	--	--	3E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	3E-03	--	--	3E-03
			Thallium	N/A	--	--	--	N/A	Blood	1E-02	--	--	1E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	9E-03	--	--	9E-03
			Zinc	N/A	--	--	--	N/A	Blood	5E-04	--	--	5E-04
			Chemical Total	3E-06	--	1E-06	--	4E-06		2E-01	--	5E-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

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 4E-06
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 4E-06
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 4E-06

Total Skin HI =	2E-01
Total Nervous System HI =	7E-03
Total Immune System HI =	4E-05
Total Kidney HI =	1E-02
Total Blood HI =	1E-02
Total General Toxicity HI =	N/A
Total Liver HI =	2E-03
Total Gastrointestinal System HI =	3E-02
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.57.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Surface Water	Station AM (Upper Reach 2)	Trichloroethene	--	--	6E-08	--	6E-08	Liver	--	--	2E-03	2E-03
			Arsenic	--	--	9E-08	--	9E-08	Skin	--	--	9E-04	9E-04
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	1E-04	1E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	4E-03	4E-03
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	4E-03	4E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	9E-05	9E-05
			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	Station AM	Antimony	N/A	--	--	--	N/A	Blood	2E-03	--	--	2E-03
			Arsenic	5E-06	--	2E-06	--	7E-06	Skin	1E-01	--	3E-02	1E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	4E-04	--	--	4E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	2E-03	--	4E-03	6E-03
			Chromium III	N/A	--	--	--	N/A	General Toxicity	1E-04	--	--	1E-04
			Copper	N/A	--	--	--	N/A	Kidney	3E-03	--	--	3E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	8E-03	--	--	8E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	9E-03	--	--	9E-03
			Nickel	N/A	--	--	--	N/A	General Toxicity	4E-04	--	--	4E-04
			Thallium	N/A	--	--	--	N/A	Blood	3E-03	--	--	3E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	1E-02	--	--	1E-02
			Zinc	N/A	--	--	--	N/A	Blood	1E-03	--	--	1E-03
			Chemical Total	5E-06	--	2E-06	--	7E-06		1E-01	--	4E-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								8E-06					2E-01

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 8E-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: 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 Skin HI =	1E-01
Total Nervous System HI =	2E-02
Total Immune System HI =	9E-05
Total Kidney HI =	2E-02
Total Blood HI =	6E-03
Total General Toxicity HI =	5E-04
Total Liver HI =	2E-03
Total Gastrointestinal System HI =	4E-03
Total Cardiovascular HI =	4E-04
Total Developmental HI =	N/A

TABLE 3-9.57.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Surface Water	Station AM (Upper Reach 2)	Trichloroethene	--	--	1E-08	--	1E-08	Liver	--	--	2E-03	2E-03
			Arsenic	--	--	1E-08	--	1E-08	Skin	--	--	3E-04	3E-04
			Cadmium	--	--	N/A	--	N/A	Kidney	--	--	6E-05	6E-05
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	1E-03	1E-03
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	2E-03	2E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	4E-05	4E-05
			Chemical Total	--	--	3E-08	--	3E-08		--	--	5E-03	5E-03
			Radionuclide Total										
		Exposure Point Total						3E-08					5E-03
	Exposure Medium Total							3E-08					5E-03
Medium Total								3E-08					5E-03
Sediment	Sediment	Station AM	Antimony	N/A	--	--	--	N/A	Blood	1E-03	--	--	1E-03
			Arsenic	9E-07	--	8E-07	--	2E-06	Skin	5E-02	--	3E-02	8E-02
			Barium	N/A	--	--	--	N/A	Cardiovascular	2E-04	--	--	2E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	9E-04	--	4E-03	5E-03
			Chromium III	N/A	--	--	--	N/A	General Toxicity	5E-05	--	--	5E-05
			Copper	N/A	--	--	--	N/A	Kidney	2E-03	--	--	2E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	4E-03	--	--	4E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	5E-03	--	--	5E-03
			Nickel	N/A	--	--	--	N/A	General Toxicity	2E-04	--	--	2E-04
			Thallium	N/A	--	--	--	N/A	Blood	1E-03	--	--	1E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	6E-03	--	--	6E-03
			Zinc	N/A	--	--	--	N/A	Blood	7E-04	--	--	7E-04
			Chemical Total	9E-07	--	8E-07	--	2E-06		7E-02	--	4E-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

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 Skin HI =	8E-02
Total Nervous System HI =	1E-02
Total Immune System HI =	4E-05
Total Kidney HI =	1E-02
Total Blood HI =	3E-03
Total General Toxicity HI =	3E-04
Total Liver HI =	2E-03
Total Gastrointestinal System HI =	1E-03
Total Cardiovascular HI =	2E-04
Total Developmental HI =	N/A

TABLE 3-9.58.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult: Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Non-Carcinogenic Hazard Quotient Young Child: Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station KF (Lower Reach 2)	Arsenic	--	--	1E-07	--	1E-07	Skin	--	--	9E-04	9E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	2E-03	2E-03
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	5E-03	5E-03
			Chemical Total	--	--	1E-07	--	1E-07		--	--	8E-03	8E-03
			Radionuclide Total										
		Exposure Point Total						1E-07					8E-03
	Exposure Medium Total							1E-07					8E-03
Medium Total								1E-07					8E-03
Sediment	Sediment	Station KF	Arsenic	7E-06	--	3E-06	--	1E-05	Skin	1E-01	--	4E-02	2E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	8E-04	--	--	8E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	1E-03	--	3E-03	5E-03
			Chromium III	N/A	--	--	--	N/A	General Toxicity	9E-05	--	--	9E-05
			Copper	N/A	--	--	--	N/A	Kidney	5E-03	--	--	5E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	7E-03	--	--	7E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	1E-02	--	--	1E-02
			Nickel	N/A	--	--	--	N/A	General Toxicity	6E-04	--	--	6E-04
			Vanadium	N/A	--	--	--	N/A	Kidney	3E-02	--	--	3E-02
			Zinc	N/A	--	--	--	N/A	Blood	2E-03	--	--	2E-03
			Chemical Total	7E-06	--	3E-06	--	1E-05		2E-01	--	4E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						1E-05					2E-01
	Exposure Medium Total							1E-05					2E-01
Medium Total								1E-05					2E-01
Soil	Surface Soil	Station KF	Arsenic	1E-05	--	2E-06	--	1E-05	Skin	2E-01	--	4E-02	3E-01
			Cadmium	N/A	--	N/A	--	N/A	Kidney	2E-03	--	4E-03	7E-03
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	6E-02	--	--	6E-02
			Copper	N/A	--	--	--	N/A	Kidney	5E-03	--	--	5E-03
			Manganese	N/A	--	--	--	N/A	Nervous System	2E-02	--	--	2E-02
			Mercury	N/A	--	--	--	N/A	Nervous System	1E-02	--	--	1E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	4E-02	--	--	4E-02
			Zinc	N/A	--	--	--	N/A	Blood	2E-03	--	--	2E-03
			Chemical Total	1E-05	--	2E-06	--	1E-05		4E-01	--	4E-02	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					8E-01

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-05

Total Hazard Across All Media: 8E-01

Total Skin HI =	4E-01
Total Nervous System HI =	5E-02
Total Immune System HI =	N/A
Total Kidney HI =	1E-01
Total Blood HI =	4E-03
Total General Toxicity HI =	7E-04
Total Liver HI =	N/A
Total Gastrointestinal System HI =	6E-02
Total Cardiovascular HI =	8E-04
Total Developmental HI =	N/A

TABLE 3-8.58.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult: Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Non-Carcinogenic Hazard Quotient Young Child: Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station KF (Lower Reach 2)	Arsenic	--	--	5E-09	--	5E-09	Skin	--	--	2E-04	2E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	4E-04	4E-04
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	8E-04	8E-04
			Chemical Total	--	--	5E-09	--	5E-09		--	--	1E-03	1E-03
			Radionuclide Total										
		Exposure Point Total						5E-09					1E-03
	Exposure Medium Total							5E-09					1E-03
Medium Total								5E-09					1E-03
Sediment	Sediment	Station KF	Arsenic	4E-07	--	3E-07	--	6E-07	Skin	2E-02	--	1E-02	3E-02
			Barium	N/A	--	--	--	N/A	Cardiovascular	1E-04	--	--	1E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	2E-04	--	1E-03	1E-03
			Chromium III	N/A	--	--	--	N/A	General Toxicity	1E-05	--	--	1E-05
			Copper	N/A	--	--	--	N/A	Kidney	9E-04	--	--	9E-04
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	1E-03	--	--	1E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	2E-03	--	--	2E-03
			Nickel	N/A	--	--	--	N/A	General Toxicity	1E-04	--	--	1E-04
			Vanadium	N/A	--	--	--	N/A	Kidney	5E-03	--	--	5E-03
			Zinc	N/A	--	--	--	N/A	Blood	3E-04	--	--	3E-04
			Chemical Total	4E-07	--	3E-07	--	6E-07		3E-02	--	1E-02	5E-02
			Radionuclide Total										
		Exposure Point Total						6E-07					5E-02
	Exposure Medium Total							6E-07					5E-02
Medium Total								6E-07					5E-02
Soil	Surface Soil	Station KF	Arsenic	6E-07	--	2E-07	--	9E-07	Skin	4E-02	--	1E-02	5E-02
			Cadmium	N/A	--	N/A	--	N/A	Kidney	3E-04	--	1E-03	2E-03
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	9E-03	--	--	9E-03
			Copper	N/A	--	--	--	N/A	Kidney	9E-04	--	--	9E-04
			Manganese	N/A	--	--	--	N/A	Nervous System	3E-03	--	--	3E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	2E-03	--	--	2E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	7E-03	--	--	7E-03
			Zinc	N/A	--	--	--	N/A	Blood	3E-04	--	--	3E-04
			Chemical Total	6E-07	--	2E-07	--	9E-07		6E-02	--	1E-02	7E-02
			Radionuclide Total										
		Exposure Point Total						9E-07					7E-02
	Exposure Medium Total							9E-07					7E-02
Medium Total								9E-07					7E-02
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 Skin HI =	8E-02
Total Nervous System HI =	8E-03
Total Immune System HI =	N/A
Total Kidney HI =	2E-02
Total Blood HI =	8E-04
Total General Toxicity HI =	1E-04
Total Liver HI =	N/A
Total Gastrointestinal System HI =	1E-02
Total Cardiovascular HI =	1E-04
Total Developmental HI =	N/A

TABLE 3-9.59 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Surface Water	Station 08 (Lower Reach 2)	Arsenic	--	--	1E-07	--	1E-07	Skin	--	--	9E-04	9E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	2E-03	2E-03
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	5E-03	5E-03
			Chemical Total	--	--	1E-07	--	1E-07		--	--	8E-03	8E-03
			Radionuclide Total										
		Exposure Point Total						1E-07					8E-03
	Exposure Medium Total							1E-07					8E-03
Medium Total								1E-07					8E-03
Sediment	Sediment	Station 08	Benzo(a)anthracene	9E-08	--	7E-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	--	4E-07	N/A	N/A	--	N/A	N/A
			Benzo(k)fluoranthene	3E-08	--	2E-08	--	5E-08	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	9E-08	--	7E-08	--	2E-07	N/A	N/A	--	N/A	N/A
			Phenanthrene	N/A	--	N/A	--	N/A	General Toxicity	4E-05	--	3E-05	8E-05
			Antimony	N/A	--	--	--	N/A	Blood	6E-03	--	--	6E-03
			Arsenic	4E-06	--	1E-06	--	5E-06	Skin	7E-02	--	2E-02	9E-02
			Barium	N/A	--	--	--	N/A	Cardiovascular	4E-04	--	--	4E-04
			Chromium III	N/A	--	--	--	N/A	General Toxicity	1E-04	--	--	1E-04
			Copper	N/A	--	--	--	N/A	Kidney	6E-03	--	--	6E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	5E-03	--	--	5E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	1E-02	--	--	1E-02
			Nickel	N/A	--	--	--	N/A	General Toxicity	1E-03	--	--	1E-03
			Thallium	N/A	--	--	--	N/A	Blood	3E-02	--	--	3E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	2E-02	--	--	2E-02
			Zinc	N/A	--	--	--	N/A	Blood	3E-03	--	--	3E-03
			Chemical Total	6E-06	--	3E-06	--	9E-06		2E-01	--	2E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						9E-06					2E-01
	Exposure Medium Total							9E-06					2E-01
Medium Total								9E-06					2E-01
Receptor Total								9E-06					2E-01

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 9E-06

Total Hazard Across All Media: 2E-01

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

TABLE 3-9.59 CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult: Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Non-Carcinogenic Hazard Quotient Young Child: Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 08 (Lower Reach 2)	Arsenic	--	--	5E-09	--	5E-09	Skin	--	--	2E-04	2E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	4E-04	4E-04
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	8E-04	8E-04
			Chemical Total	--	--	5E-09	--	5E-09		--	--	1E-03	1E-03
			Radionuclide Total										
		Exposure Point Total						5E-09					1E-03
	Exposure Medium Total							5E-09					1E-03
Medium Total								5E-09					1E-03
Sediment	Sediment	Station 08	Benzo(a)anthracene	3E-09	--	5E-09	--	9E-09	N/A	N/A	--	N/A	N/A
			Benzo(a)pyrene	4E-08	--	7E-08	--	1E-07	N/A	N/A	--	N/A	N/A
			Benzo(b)fluoranthene	9E-09	--	1E-08	--	2E-08	N/A	N/A	--	N/A	N/A
			Benzo(k)fluoranthene	9E-10	--	1E-09	--	2E-09	N/A	N/A	--	N/A	N/A
			Dibenz(a,h)anthracene	6E-09	--	1E-08	--	2E-08	N/A	N/A	--	N/A	N/A
			Indeno(1,2,3-cd)pyrene	3E-09	--	4E-09	--	7E-09	N/A	N/A	--	N/A	N/A
			Phenanthrene	N/A	--	N/A	--	N/A	General Toxicity	6E-06	--	8E-06	1E-05
			Antimony	N/A	--	--	--	N/A	Blood	6E-04	--	--	6E-04
			Arsenic	1E-07	--	1E-07	--	2E-07	Skin	8E-03	--	5E-03	1E-02
			Barium	N/A	--	--	--	N/A	Cardiovascular	6E-05	--	--	6E-05
			Chromium III	N/A	--	--	--	N/A	General Toxicity	9E-06	--	--	9E-06
			Copper	N/A	--	--	--	N/A	Kidney	6E-04	--	--	6E-04
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	5E-04	--	--	5E-04
			Mercury	N/A	--	--	--	N/A	Nervous System	1E-03	--	--	1E-03
			Nickel	N/A	--	--	--	N/A	General Toxicity	1E-04	--	--	1E-04
			Thallium	N/A	--	--	--	N/A	Blood	4E-03	--	--	4E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	4E-03	--	--	4E-03
			Zinc	N/A	--	--	--	N/A	Blood	3E-04	--	--	3E-04
			Chemical Total	2E-07	--	2E-07	--	4E-07		2E-02	--	5E-03	2E-02
			Radionuclide Total										
		Exposure Point Total						4E-07					2E-02
	Exposure Medium Total							4E-07					2E-02
Medium Total								4E-07					2E-02
Receptor Total								4E-07					3E-02

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 4E-07

Total Hazard Across All Media: 3E-02

Total Skin HI =	1E-02
Total Nervous System HI =	2E-03
Total Immune System HI =	N/A
Total Kidney HI =	4E-03
Total Blood HI =	5E-03
Total General Toxicity HI =	2E-04
Total Liver HI =	N/A
Total Gastrointestinal System HI =	4E-04
Total Cardiovascular HI =	6E-05
Total Developmental HI =	N/A

TABLE 3-9 60 RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Surface Water	Station 07/DP (Reach 3)	Chromium VI	–	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	3E-03	3E-03
			Lead										
			Manganese	–	- -	N/A	- -	N/A	Nervous System	- -	- -	8E-03	8E-03
			Mercury	–	- -	N/A	- -	N/A	Immune System	- -	- -	4E-04	4E-04
			Chemical Total	–	- -	N/A	- -	N/A		- -	- -	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						N/A					1E-02
	Exposure Medium Total							N/A					1E-02
Medium Total								N/A					1E-02
Sediment	Sediment	Station 07/DP	Trichloroethene	2E-09	- -	- -	- -	2E-09	Liver	1E-04	- -	- -	1E-04
			Benzo(a)anthracene	7E-07	- -	6E-07	- -	1E-06	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	7E-06	- -	8E-06	- -	1E-05	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	1E-06	- -	1E-06	- -	2E-06	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	1E-07	- -	1E-07	- -	2E-07	N/A	N/A	- -	N/A	N/A
			Dibenz(a,h)anthracene	1E-06	- -	1E-06	- -	3E-06	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	5E-07	- -	4E-07	- -	9E-07	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	5E-04	- -	4E-04	9E-04
			Aroclor 1260	2E-06	- -	2E-06	- -	4E-06	Immune System	5E-03	- -	4E-03	8E-03
			Antimony	N/A	- -	- -	- -	N/A	Blood	8E-03	- -	- -	8E-03
			Arsenic	1E-05	- -	4E-06	- -	1E-05	Skin	2E-01	- -	9E-02	3E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	2E-03	- -	- -	2E-03
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	7E-03	- -	2E-02	2E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	2E-04	- -	- -	2E-04
			Copper	N/A	- -	- -	- -	N/A	Kidney	1E-02	- -	- -	1E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	8E-03	- -	- -	8E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	4E-02	- -	- -	4E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	2E-03	- -	- -	2E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	4E-02	- -	- -	4E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	7E-02	- -	- -	7E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	6E-03	- -	- -	6E-03
			Chemical Total	2E-05	- -	1E-05	- -	3E-05		4E-01	- -	6E-02	5E-01
			Radionuclide Total										
		Exposure Point Total						3E-05					5E-01
	Exposure Medium Total							3E-05					5E-01
Medium Total								3E-05					5E-01
Soil	Surface Soil	Station 07/DP	Arsenic	1E-05	- -	2E-06	- -	1E-05	Skin	2E-01	- -	4E-02	2E-01
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	3E-04	- -	6E-04	9E-04
			Chromium VI	N/A	- -	- -	- -	N/A	Gastrointestinal System	7E-02	- -	- -	7E-02
			Copper	N/A	- -	- -	- -	N/A	Kidney	5E-03	- -	- -	5E-03
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	7E-03	- -	- -	7E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	1E-02	- -	- -	1E-02
			Thallium	N/A	- -	- -	- -	N/A	Blood	3E-02	- -	- -	3E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	4E-02	- -	- -	4E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	9E-02	- -	- -	9E-02
			Chemical Total	1E-05	- -	2E-06	- -	1E-05		5E-01	- -	4E-02	5E-01
			Radionuclide Total										
		Exposure Point Total						1E-05					9E-01
	Exposure Medium Total							1E-05					9E-01
Medium Total								1E-05					5E-01
Receptor Total								5E-05					1E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 5E-05

Total Hazard Across All Media: 1E+00

Using the NCEA low-end slope factor for TCE, the risk for this receptor would change to: 5E-05
Using the CalEPA slope factor for TCE, the risk for this receptor would change to: 5E-05
Using the MADEP slope factor for TCE, the risk for this receptor would change to: 9E-05

Total Skin HI =	5E-01
Total Nervous System HI =	6E-02
Total Immune System HI =	9E-03
Total Kidney HI =	2E-01
Total Blood HI =	2E-01
Total General Toxicity HI =	3E-03
Total Liver HI =	1E-04
Total Gastrointestinal System HI =	7E-02
Total Cardiovascular HI =	2E-03
Total Developmental HI =	N/A

TABLE 3-9.60.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult: Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Non-Carcinogenic Hazard Quotient Young Child: Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 07/DP (Reach 3)	Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	5E-04	5E-04
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	1E-03	1E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	7E-05	7E-05
			Chemical Total	--	--	N/A	--	N/A		--	--	2E-03	2E-03
			Radionuclide Total										
		Exposure Point Total						N/A					2E-03
	Exposure Medium Total							N/A					2E-03
Medium Total								N/A					2E-03
Sediment	Sediment	Station 07/DP	Trichloroethene	8E-11	--	--	--	8E-11	Liver	2E-05	--	--	2E-05
			Benzo(a)anthracene	4E-08	--	9E-08	--	1E-07	N/A	N/A	--	N/A	N/A
			Benzo(a)pyrene	4E-07	--	6E-07	--	1E-06	N/A	N/A	--	N/A	N/A
			Benzo(b)fluoranthene	6E-08	--	1E-07	--	2E-07	N/A	N/A	--	N/A	N/A
			Benzo(k)fluoranthene	6E-08	--	1E-08	--	2E-08	N/A	N/A	--	N/A	N/A
			Dibenz(a,h)anthracene	7E-08	--	1E-07	--	2E-07	N/A	N/A	--	N/A	N/A
			Indeno(1,2,3-cd)pyrene	3E-08	--	4E-08	--	7E-08	N/A	N/A	--	N/A	N/A
			Phenanthrene	N/A	--	N/A	--	N/A	General Toxicity	8E-05	--	1E-04	2E-04
			Aroclor 1260	8E-10	--	1E-09	--	2E-09	Immune System	8E-04	--	1E-03	2E-03
			Antimony	N/A	--	--	--	N/A	Blood	1E-03	--	--	1E-03
			Arsenic	8E-07	--	4E-07	--	1E-06	Skin	3E-02	--	2E-02	5E-02
			Barium	N/A	--	--	--	N/A	Cardiovascular	3E-04	--	--	3E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	1E-03	--	5E-03	7E-03
			Chromium III	N/A	--	--	--	N/A	General Toxicity	4E-05	--	--	4E-05
			Copper	N/A	--	--	--	N/A	Kidney	2E-03	--	--	2E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	1E-03	--	--	1E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	7E-03	--	--	7E-03
			Nickel	N/A	--	--	--	N/A	General Toxicity	3E-04	--	--	3E-04
			Thallium	N/A	--	--	--	N/A	Blood	7E-03	--	--	7E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	1E-02	--	--	1E-02
			Zinc	N/A	--	--	--	N/A	Blood	1E-03	--	--	1E-03
			Chemical Total	1E-06	--	1E-06	--	3E-06		7E-03	--	3E-02	9E-02
			Radionuclide Total										
		Exposure Point Total						3E-06					9E-02
	Exposure Medium Total							3E-06					9E-02
Medium Total								3E-06					9E-02
Soil	Surface Soil	Station 07/DP	Arsenic	8E-07	--	2E-07	--	8E-07	Skin	4E-02	--	1E-02	5E-02
			Cadmium	N/A	--	N/A	--	N/A	Kidney	4E-05	--	2E-04	2E-04
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	1E-02	--	--	1E-02
			Copper	N/A	--	--	--	N/A	Kidney	8E-04	--	--	8E-04
			Manganese	N/A	--	--	--	N/A	Nervous System	1E-03	--	--	1E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	2E-03	--	--	2E-03
			Thallium	N/A	--	--	--	N/A	Blood	6E-03	--	--	6E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	7E-03	--	--	7E-03
			Zinc	N/A	--	--	--	N/A	Blood	2E-02	--	--	2E-02
			Chemical Total	8E-07	--	2E-07	--	9E-07		6E-02	--	1E-02	9E-02
			Radionuclide Total										
		Exposure Point Total						9E-07					9E-02
	Exposure Medium Total							9E-07					9E-02
Medium Total								9E-07					9E-02
Receptor Total								3E-06					2E-01

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-06

Total Hazard Across All Media: 2E-01

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

Total Skin HI =	1E-01
Total Nervous System HI =	1E-02
Total Immune System HI =	2E-03
Total Kidney HI =	3E-02
Total Blood HI =	3E-02
Total General Toxicity HI =	8E-04
Total Liver HI =	2E-05
Total Gastrointestinal System HI =	1E-02
Total Cardiovascular HI =	3E-04
Total Developmental HI =	N/A

TABLE 3-9.81.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Surface Water	Station LP (Reach 3)	Chromium VI	–	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	3E-03	3E-03
			Lead										
			Manganese	–	- -	N/A	- -	N/A	Nervous System	- -	- -	8E-03	8E-03
			Mercury	–	- -	N/A	- -	N/A	Immune System	- -	- -	4E-04	4E-04
			Chemical Total	–	- -	N/A	- -	N/A		- -	- -	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						N/A					1E-02
	Exposure Medium Total							N/A					1E-02
Medium Total								N/A					1E-02
Sediment	Sediment	Station LP	Antimony	N/A	- -	- -	- -	N/A	Blood	6E-03	- -	- -	6E-03
			Arsenic	2E-05	- -	7E-06	- -	3E-05	Skin	4E-01	- -	1E-01	5E-01
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	8E-04	- -	- -	8E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	4E-03	- -	8E-03	1E-02
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	7E-05	- -	- -	7E-05
			Copper	N/A	- -	- -	- -	N/A	Kidney	2E-02	- -	- -	2E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	4E-03	- -	- -	4E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	1E-02	- -	- -	1E-02
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	1E-03	- -	- -	1E-03
			Thallium	N/A	- -	- -	- -	N/A	Blood	3E-02	- -	- -	3E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	3E-02	- -	- -	3E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	6E-03	- -	- -	6E-03
			Chemical Total	2E-05	- -	7E-06	- -	3E-05		5E-01	- -	1E-01	6E-01
			Radionuclide Total										
		Exposure Point Total						3E-05					6E-01
	Exposure Medium Total							3E-05					6E-01
Medium Total								3E-05					6E-01
Receptor Total								3E-05					6E-01

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-05

Total Hazard Across All Media: 6E-01

Total Skin HI =	5E-01
Total Nervous System HI =	2E-02
Total Immune System HI =	4E-04
Total Kidney HI =	6E-02
Total Blood HI =	5E-02
Total General Toxicity HI =	1E-03
Total Liver HI =	N/A
Total Gastrointestinal System HI =	3E-03
Total Cardiovascular HI =	8E-04
Total Developmental HI =	N/A

TABLE 3-9 61.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Surface Water	Station LP (Reach 3)	Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	5E-04	5E-04
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	1E-03	1E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	7E-05	7E-05
			Chemical Total	--	--	N/A	--	N/A		--	--	2E-03	2E-03
			Radionuclide Total										
		Exposure Point Total						N/A					2E-03
	Exposure Medium Total							N/A					2E-03
Medium Total								N/A					2E-03
Sediment	Sediment	Station LP											
			Antimony	N/A	--	--	--	N/A	Blood	1E-03	--	--	1E-03
			Arsenic	1E-06	--	8E-07	--	2E-06	Skin	6E-02	--	4E-02	1E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	1E-04	--	--	1E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	6E-04	--	3E-03	3E-03
			Chromium III	N/A	--	--	--	N/A	General Toxicity	1E-05	--	--	1E-05
			Copper	N/A	--	--	--	N/A	Kidney	3E-03	--	--	3E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	7E-04	--	--	7E-04
			Mercury	N/A	--	--	--	N/A	Nervous System	2E-03	--	--	2E-03
			Nickel	N/A	--	--	--	N/A	General Toxicity	2E-04	--	--	2E-04
			Thallium	N/A	--	--	--	N/A	Blood	6E-03	--	--	6E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	5E-03	--	--	5E-03
			Zinc	N/A	--	--	--	N/A	Blood	1E-03	--	--	1E-03
			Chemical Total	1E-06	--	8E-07	--	2E-06		8E-02	--	4E-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 Skin HI =	1E-01
Total Nervous System HI =	4E-03
Total Immune System HI =	7E-05
Total Kidney HI =	1E-02
Total Blood HI =	8E-03
Total General Toxicity HI =	2E-04
Total Liver HI =	N/A
Total Gastrointestinal System HI =	5E-04
Total Cardiovascular HI =	1E-04
Total Developmental HI =	N/A

TABLE 3-9.62.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Surface Water	Station AS (Reach 3)	Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	3E-03	3E-03
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	8E-03	8E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	4E-04	4E-04
			Chemical Total	--	--	N/A	--	N/A		--	--	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						N/A					1E-02
	Exposure Medium Total							N/A					1E-02
Medium Total								N/A					1E-02
Sediment	Sediment	Station AS											
			Antimony	N/A	--	--	--	N/A	Blood	1E-02	--	--	1E-02
			Arsenic	2E-05	--	6E-06	--	2E-05	Skin	3E-01	--	1E-01	4E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	2E-03	--	--	2E-03
			Cadmium	N/A	--	N/A	--	N/A	Kidney	2E-02	--	4E-02	6E-02
			Chromium III	N/A	--	--	--	N/A	General Toxicity	9E-04	--	--	9E-04
			Copper	N/A	--	--	--	N/A	Kidney	3E-02	--	--	3E-02
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	8E-03	--	--	8E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	4E-02	--	--	4E-02
			Nickel	N/A	--	--	--	N/A	General Toxicity	3E-03	--	--	3E-03
			Thallium	N/A	--	--	--	N/A	Blood	2E-02	--	--	2E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	1E-01	--	--	1E-01
			Zinc	N/A	--	--	--	N/A	Blood	1E-02	--	--	1E-02
			Chemical Total	2E-05	--	6E-06	--	2E-05		5E-01	--	1E-01	7E-01
			Radionuclide Total										
		Exposure Point Total						2E-05					7E-01
	Exposure Medium Total							2E-05					7E-01
Medium Total								2E-05					7E-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 Skin HI =	4E-01
Total Nervous System HI =	6E-02
Total Immune System HI =	4E-04
Total Kidney HI =	2E-01
Total Blood HI =	4E-02
Total General Toxicity HI =	4E-03
Total Liver HI =	N/A
Total Gastrointestinal System HI =	3E-03
Total Cardiovascular HI =	2E-03
Total Developmental HI =	N/A

TABLE 3-9.62.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Surface Water	Station AS (Reach 3)	Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	5E-04	5E-04
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	1E-03	1E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	7E-05	7E-05
			Chemical Total	--	--	N/A	--	N/A		--	--	2E-03	2E-03
			Radionuclide Total										
		Exposure Point Total						N/A					2E-03
	Exposure Medium Total							N/A					2E-03
Medium Total								N/A					2E-03
Sediment	Sediment	Station AS	Antimony	N/A	--	--	--	N/A	Blood	1E-03	--	--	1E-03
			Arsenic	8E-07	--	6E-07	--	1E-06	Skin	5E-02	--	3E-02	8E-02
			Barium	N/A	--	--	--	N/A	Cardiovascular	3E-04	--	--	3E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	3E-03	--	1E-02	2E-02
			Chromium III	N/A	--	--	--	N/A	General Toxicity	1E-04	--	--	1E-04
			Copper	N/A	--	--	--	N/A	Kidney	4E-03	--	--	4E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	1E-03	--	--	1E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	7E-03	--	--	7E-03
			Nickel	N/A	--	--	--	N/A	General Toxicity	4E-04	--	--	4E-04
			Thallium	N/A	--	--	--	N/A	Blood	3E-03	--	--	3E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	2E-02	--	--	2E-02
			Zinc	N/A	--	--	--	N/A	Blood	2E-03	--	--	2E-03
			Chemical Total	8E-07	--	6E-07	--	1E-06		9E-02	--	4E-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 Skin HI =	8E-02
Total Nervous System HI =	1E-02
Total Immune System HI =	7E-05
Total Kidney HI =	4E-02
Total Blood HI =	6E-03
Total General Toxicity HI =	6E-04
Total Liver HI =	N/A
Total Gastrointestinal System HI =	5E-04
Total Cardiovascular HI =	3E-04
Total Developmental HI =	N/A

TABLE 3-9.63.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Surface Water	Station 06 (Reach 4)	Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	5E-03	5E-03
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	7E-03	7E-03
			Chemical Total	--	--	N/A	--	N/A		--	--	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						N/A					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 Skin HI =	N/A
Total Nervous System HI =	7E-03
Total Immune System HI =	N/A
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	5E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.63.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Surface Water	Station 06 (Reach 4)	Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	8E-04	8E-04
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	1E-03	1E-03
			Chemical Total	--	--	N/A	--	N/A		--	--	2E-03	2E-03
			Radionuclide Total										
		Exposure Point Total						N/A					2E-03
	Exposure Medium Total							N/A					2E-03
Medium Total								N/A					2E-03
Receptor Total								N/A					2E-03

-- = Not Evaluated

N/A = Not Applicable

Total Risk Across All Media: N/A

Total Hazard Across All Media: 2E-03

Total Skin HI =	N/A
Total Nervous System HI =	1E-03
Total Immune System HI =	N/A
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	8E-04
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.64.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult: Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Non-Carcinogenic Hazard Quotient Young Child: Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 05 (Reach 5)	Chloroform	--	--	N/A	--	N/A	Liver	--	--	5E-05	5E-05
			Tetrachloroethene	--	--	9E-07	--	9E-07	Liver	--	--	7E-04	7E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	9E-04	9E-04
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	5E-03	5E-03
			Chemical Total	--	--	9E-07	--	9E-07		--	--	6E-03	6E-03
			Radionuclide Total										
		Exposure Point Total						9E-07					6E-03
	Exposure Medium Total							9E-07					6E-03
Medium Total								9E-07					6E-03
Sediment	Sediment	Station 05	Benzo(a)anthracene	3E-07	--	2E-07	--	5E-07	N/A	N/A	--	N/A	N/A
			Benzo(a)pyrene	3E-06	--	3E-06	--	6E-06	N/A	N/A	--	N/A	N/A
			Benzo(b)fluoranthene	4E-07	--	3E-07	--	7E-07	N/A	N/A	--	N/A	N/A
			Benzo(k)fluoranthene	2E-08	--	2E-08	--	4E-08	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	2E-04	--	1E-04	3E-04
			Antimony	N/A	--	--	--	N/A	Blood	6E-03	--	--	6E-03
			Arsenic	3E-06	--	1E-06	--	5E-06	Skin	6E-02	--	2E-02	8E-02
			Barium	N/A	--	--	--	N/A	Cardiovascular	9E-04	--	--	9E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	2E-03	--	5E-03	7E-03
			Chromium III	N/A	--	--	--	N/A	General Toxicity	1E-04	--	--	1E-04
			Copper	N/A	--	--	--	N/A	Kidney	4E-03	--	--	4E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	2E-02	--	--	2E-02
			Mercury	N/A	--	--	--	N/A	Nervous System	2E-02	--	--	2E-02
			Nickel	N/A	--	--	--	N/A	General Toxicity	8E-04	--	--	8E-04
			Thallium	N/A	--	--	--	N/A	Blood	2E-02	--	--	2E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	3E-02	--	--	3E-02
			Zinc	N/A	--	--	--	N/A	Blood	3E-03	--	--	3E-03
			Chemical Total	7E-06	--	5E-06	--	1E-05		2E-01	--	3E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						1E-05					2E-01
	Exposure Medium Total							1E-05					2E-01
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

Using the MADEP slope factor for PCE, the risk for the receptor would change to: 1E-05

Total Hazard Across All Media: 2E-01

Total Skin HI =	8E-02
Total Nervous System HI =	4E-02
Total Immune System HI =	N/A
Total Kidney HI =	4E-02
Total Blood HI =	3E-02
Total General Toxicity HI =	1E-03
Total Liver HI =	7E-04
Total Gastrointestinal System HI =	9E-04
Total Cardiovascular HI =	9E-04
Total Developmental HI =	N/A

TABLE 3-9.64.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult: Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Non-Carcinogenic Hazard Quotient Young Child: Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 05 (Reach 5)	Chloroform	--	--	N/A	--	N/A	Liver	--	--	1E-05	1E-05
			Tetrachloroethene	--	--	6E-08	--	6E-08	Liver	--	--	2E-04	2E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	2E-04	2E-04
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	8E-04	8E-04
			Chemical Total	--	--	6E-08	--	6E-08		--	--	1E-03	1E-03
			Radionuclide Total										
		Exposure Point Total						6E-08					1E-03
	Exposure Medium Total							6E-08					1E-03
Medium Total								6E-08					1E-03
Sediment	Sediment	Station 05	Benzo(a)anthracene	3E-09	--	5E-09	--	8E-09	N/A	N/A	--	N/A	N/A
			Benzo(a)pyrene	2E-08	--	4E-08	--	6E-08	N/A	N/A	--	N/A	N/A
			Benzo(b)fluoranthene	2E-09	--	4E-09	--	6E-09	N/A	N/A	--	N/A	N/A
			Benzo(k)fluoranthene	2E-10	--	3E-10	--	5E-10	N/A	N/A	--	N/A	N/A
			Indeno(1,2,3-cd)pyrene	1E-09	--	2E-09	--	3E-09	N/A	N/A	--	N/A	N/A
			Phenanthrene	N/A	--	N/A	--	N/A	General Toxicity	8E-06	--	1E-05	2E-05
			Antimony	N/A	--	--	--	N/A	Blood	6E-04	--	--	6E-04
			Arsenic	6E-08	--	4E-08	--	1E-07	Skin	3E-03	--	2E-03	6E-03
			Barium	N/A	--	--	--	N/A	Cardiovascular	1E-04	--	--	1E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	8E-05	--	2E-04	3E-04
			Chromium III	N/A	--	--	--	N/A	General Toxicity	5E-06	--	--	5E-06
			Copper	N/A	--	--	--	N/A	Kidney	2E-04	--	--	2E-04
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	1E-03	--	--	1E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	2E-04	--	--	2E-04
			Nickel	N/A	--	--	--	N/A	General Toxicity	1E-04	--	--	1E-04
			Thallium	N/A	--	--	--	N/A	Blood	2E-03	--	--	2E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	4E-03	--	--	4E-03
			Zinc	N/A	--	--	--	N/A	Blood	1E-04	--	--	1E-04
			Chemical Total	9E-08	--	9E-08	--	2E-07		1E-02	--	2E-03	1E-02
			Radionuclide Total										
		Exposure Point Total						2E-07					1E-02
	Exposure Medium Total							2E-07					1E-02
Medium Total								2E-07					1E-02
Receptor Total								2E-07					2E-02

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-07

Using the MADEP slope factor for PCE, the risk for this receptor would change to: 2E-07

Total Hazard Across All Media: 2E-02

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

TABLE 3-9.65.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Surface Water	Station 04 (Upper Reach 6)	Arsenic	--	--	7E-08	--	7E-08	Skin	--	--	7E-04	7E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	4E-03	4E-03
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	5E-03	5E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	1E-04	1E-04
			Chemical Total	--	--	7E-08	--	7E-08		--	--	9E-03	9E-03
			Radionuclide Total										
		Exposure Point Total						7E-08					9E-03
	Exposure Medium Total							7E-08					9E-03
Medium Total								7E-08					9E-03
Receptor Total								7E-08					9E-03

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 7E-08

Total Hazard Across All Media: 9E-03

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

TABLE 3-9.65.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Surface Water	Station 04 (Upper Reach 6)	Arsenic	--	--	3E-09	--	3E-09	Skin	--	--	8E-05	8E-05
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	3E-04	3E-04
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	5E-04	5E-04
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	2E-05	2E-05
			Chemical Total	--	--	3E-09	--	3E-09		--	--	9E-04	9E-04
			Radionuclide Total										
		Exposure Point Total						3E-09					9E-04
	Exposure Medium Total							3E-09					9E-04
Medium Total								3E-09					9E-04
Receptor Total								3E-09					9E-04

-- = Not Evaluated

N/A = Not Applicable

Total Risk Across All Media: 3E-09

Total Hazard Across All Media: 9E-04

Total Skin HI =	8E-05
Total Nervous System HI =	5E-04
Total Immune System HI =	2E-05
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	3E-04
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.6S RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult: Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Non-Carcinogenic Hazard Quotient Young Child: Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 03 (Upper Reach 6)	Arsenic	--	--	7E-08	--	7E-08	Skin	--	--	7E-04	7E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	4E-03	4E-03
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	5E-03	5E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	1E-04	1E-04
			Chemical Total	--	--	7E-08	--	7E-08		--	--	9E-03	9E-03
			Radionuclide Total										
		Exposure Point Total						7E-08					9E-03
	Exposure Medium Total							7E-08					9E-03
Medium Total								7E-08					9E-03
Sediment	Sediment	Station 03	Benzo(a)anthracene	2E-07	--	1E-07	--	3E-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	--	1E-07	--	3E-07	N/A	N/A	--	N/A	N/A
			Benzo(k)fluoranthene	8E-09	--	7E-09	--	1E-08	N/A	N/A	--	N/A	N/A
			Dibenz(a,h)anthracene	1E-07	--	1E-07	--	3E-07	N/A	N/A	--	N/A	N/A
			Indeno(1,2,3-cd)pyrene	8E-08	--	6E-08	--	1E-07	N/A	N/A	--	N/A	N/A
			Phenanthrene	N/A	--	N/A	--	N/A	General Toxicity	7E-05	--	5E-05	1E-04
			Aroclor 1260	4E-08	--	3E-08	--	7E-08	Immune System	6E-03	--	6E-03	1E-02
			Antimony	N/A	--	--	--	N/A	Blood	6E-03	--	--	6E-03
			Arsenic	1E-05	--	4E-06	--	2E-05	Skin	2E-01	--	7E-02	3E-01
			Barium	N/A	--	--	--	N/A	Cardiovascular	2E-03	--	--	2E-03
			Cadmium	N/A	--	N/A	--	N/A	Kidney	7E-03	--	2E-02	2E-02
			Chromium III	N/A	--	--	--	N/A	General Toxicity	2E-04	--	--	2E-04
			Copper	N/A	--	--	--	N/A	Kidney	8E-03	--	--	8E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	1E-02	--	--	1E-02
			Mercury	N/A	--	--	--	N/A	Nervous System	1E-02	--	--	1E-02
			Nickel	N/A	--	--	--	N/A	General Toxicity	2E-03	--	--	2E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	7E-02	--	--	7E-02
			Zinc	N/A	--	--	--	N/A	Blood	7E-03	--	--	7E-03
			Chemical Total	1E-05	--	6E-06	--	2E-05		3E-01	--	9E-02	4E-01
			Radionuclide Total										
		Exposure Point Total						2E-05					4E-01
	Exposure Medium Total							2E-05					4E-01
Medium Total								2E-05					4E-01
Receptor Total								2E-05					4E-01

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-05

Total Hazard Across All Media: 4E-01

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

TABLE 3-9 66 CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Young Child + Adult: Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Non-Carcinogenic Hazard Quotient Young Child: Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Surface Water	Station 03 (Upper Reach 6)	Arsenic	--	--	3E-09	--	3E-09	Skin	--	--	8E-05	8E-05
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	3E-04	3E-04
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	5E-04	5E-04
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	2E-05	2E-05
			Chemical Total	--	--	3E-09	--	3E-09		--	--	9E-04	9E-04
			Radionuclide Total										
		Exposure Point Total						3E-09					9E-04
	Exposure Medium Total							3E-09					9E-04
Medium Total								3E-09					9E-04
Sediment	Sediment	Station 03	Benzo(a)anthracene	4E-09	--	6E-09	--	1E-08	N/A	N/A	--	N/A	N/A
			Benzo(a)pyrene	3E-08	--	5E-08	--	8E-08	N/A	N/A	--	N/A	N/A
			Benzo(b)fluoranthene	4E-09	--	7E-09	--	1E-08	N/A	N/A	--	N/A	N/A
			Benzo(k)fluoranthene	2E-10	--	4E-10	--	6E-10	N/A	N/A	--	N/A	N/A
			Dibenz(a,h)anthracene	7E-09	--	1E-08	--	2E-08	N/A	N/A	--	N/A	N/A
			Indeno(1,2,3-cd)pyrene	2E-09	--	4E-09	--	6E-09	N/A	N/A	--	N/A	N/A
			Phenanthrene	N/A	--	N/A	--	N/A	General Toxicity	6E-06	--	8E-06	1E-05
			Aroclor 1260	5E-10	--	8E-10	--	1E-09	Immune System	6E-04	--	9E-04	2E-03
			Antimony	N/A	--	--	--	N/A	Blood	5E-04	--	--	5E-04
			Arsenic	2E-07	--	2E-07	--	4E-07	Skin	1E-02	--	9E-03	2E-02
			Barium	N/A	--	--	--	N/A	Cardiovascular	1E-04	--	--	1E-04
			Cadmium	N/A	--	N/A	--	N/A	Kidney	4E-04	--	2E-03	2E-03
			Chromium III	N/A	--	--	--	N/A	General Toxicity	1E-05	--	--	1E-05
			Copper	N/A	--	--	--	N/A	Kidney	5E-04	--	--	5E-04
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	7E-04	--	--	7E-04
			Mercury	N/A	--	--	--	N/A	Nervous System	6E-04	--	--	6E-04
			Nickel	N/A	--	--	--	N/A	General Toxicity	1E-04	--	--	1E-04
			Vanadium	N/A	--	--	--	N/A	Kidney	5E-03	--	--	5E-03
			Zinc	N/A	--	--	--	N/A	Blood	4E-04	--	--	4E-04
			Chemical Total	3E-07	--	3E-07	--	5E-07		2E-02	--	1E-02	3E-02
			Radionuclide Total										
		Exposure Point Total						5E-07					3E-02
	Exposure Medium Total							5E-07					3E-02
Medium Total								5E-07					3E-02
Receptor Total								5E-07					4E-02

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 5E-07

Total Hazard Across All Media: 4E-02

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

TABLE 3-9.67.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Surface Water	Station 02 (Upper Reach 6)	Arsenic	--	- -	7E-08	- -	7E-08	Skin	- -	- -	7E-04	7E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	4E-03	4E-03
			Lead										
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	5E-03	5E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	1E-04	1E-04
			Chemical Total	--	- -	7E-08	- -	7E-08		- -	- -	9E-03	9E-03
			Radionuclide Total										
		Exposure Point Total						7E-08					9E-03
	Exposure Medium Total							7E-08					9E-03
Medium Total								7E-08					9E-03
Receptor Total								7E-08					9E-03

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 7E-08

Total Hazard Across All Media: 9E-03

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

TABLE 3-9.67.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Surface Water	Station 02 (Upper Reach 6)	Arsenic	--	--	3E-09	--	3E-09	Skin	--	--	8E-05	8E-05
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	3E-04	3E-04
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	5E-04	5E-04
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	2E-05	2E-05
			Chemical Total	--	--	3E-09	--	3E-09		--	--	9E-04	9E-04
			Radionuclide Total										
		Exposure Point Total						3E-09					9E-04
	Exposure Medium Total							3E-09					9E-04
Medium Total								3E-09					9E-04
Receptor Total								3E-09					9E-04

-- = Not Evaluated

N/A = Not Applicable

Total Risk Across All Media: 3E-09

Total Hazard Across All Media: 9E-04

Total Skin HI =	8E-05
Total Nervous System HI =	5E-04
Total Immune System HI =	2E-05
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	3E-04
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.6B RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Surface Water	Station 01 (Sandy Beach)	Arsenic	3E-07	- -	6E-08	- -	3E-07	Skin	4E-03	- -	5E-04	4E-03
			Chromium VI	N/A	- -	N/A	- -	N/A	Gastrointestinal System	2E-04	- -	2E-03	2E-03
			Lead										
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	4E-04	- -	1E-03	2E-03
			Mercury	N/A	- -	N/A	- -	N/A	Immune System	5E-05	- -	9E-05	1E-04
			Chemical Total	3E-07	- -	6E-08	- -	3E-07		4E-03	- -	4E-03	8E-03
			Radionuclide Total										
		Exposure Point Total						3E-07					8E-03
	Exposure Medium Total							3E-07					8E-03
Medium Total								3E-07					8E-03
Sediment	Sediment	Station 01	Benzo(a)anthracene	3E-08	- -	3E-08	- -	6E-08	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	3E-07	- -	2E-07	- -	5E-07	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	2E-08	- -	2E-08	- -	4E-08	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	3E-09	- -	2E-09	- -	5E-09	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	2E-08	- -	1E-08	- -	3E-08	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	3E-05	- -	2E-05	6E-05
			Antimony	N/A	- -	- -	- -	N/A	Blood	3E-03	- -	- -	3E-03
			Arsenic	8E-07	- -	3E-07	- -	1E-06	Skin	1E-02	- -	5E-03	2E-02
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	3E-04	- -	- -	3E-04
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	2E-04	- -	5E-04	8E-04
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	9E-06	- -	- -	9E-06
			Copper	N/A	- -	- -	- -	N/A	Kidney	8E-04	- -	- -	8E-04
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	2E-03	- -	- -	2E-03
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	5E-04	- -	- -	5E-04
			Thallium	N/A	- -	- -	- -	N/A	Blood	9E-03	- -	- -	9E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	2E-02	- -	- -	2E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	7E-04	- -	- -	7E-04
			Chemical Total	1E-06	- -	8E-07	- -	2E-06		5E-02	- -	5E-03	5E-02
			Radionuclide Total										
		Exposure Point Total						2E-06					5E-02
	Exposure Medium Total							2E-06					5E-02
Medium Total								2E-06					5E-02
Receptor Total								2E-06					6E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-06

Total Hazard Across All Media: 6E-02

Total Skin HI =	2E-02
Total Nervous System HI =	4E-03
Total Immune System HI =	1E-04
Total Kidney HI =	2E-02
Total Blood HI =	1E-02
Total General Toxicity HI =	6E-04
Total Liver HI =	N/A
Total Gastrointestinal System HI =	2E-03
Total Cardiovascular HI =	3E-04
Total Developmental HI =	N/A

TABLE 3-9.66.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Surface Water	Station 01 (Sandy Beach)	Arsenic	5E-09	- -	1E-09	- -	7E-09	Skin	2E-04	- -	3E-05	3E-04
			Chromium VI	N/A	- -	N/A	- -	N/A	Gastrointestinal System	1E-05	- -	1E-04	1E-04
			Lead										
			Manganese	N/A	- -	N/A	- -	N/A	Nervous System	2E-05	- -	8E-05	1E-04
			Mercury	N/A	- -	N/A	- -	N/A	Immune System	3E-06	- -	6E-06	9E-06
			Chemical Total	5E-09	- -	1E-09	- -	7E-09		3E-04	- -	2E-04	5E-04
			Radionuclide Total										
		Exposure Point Total						7E-09					5E-04
	Exposure Medium Total							7E-09					5E-04
Medium Total								7E-09					5E-04
Sediment	Sediment	Station 01	Benzo(a)anthracene	1E-09	- -	2E-09	- -	3E-09	N/A	N/A	- -	N/A	N/A
			Benzo(a)pyrene	1E-08	- -	2E-08	- -	3E-08	N/A	N/A	- -	N/A	N/A
			Benzo(b)fluoranthene	1E-09	- -	2E-09	- -	3E-09	N/A	N/A	- -	N/A	N/A
			Benzo(k)fluoranthene	1E-10	- -	2E-10	- -	3E-10	N/A	N/A	- -	N/A	N/A
			Indeno(1,2,3-cd)pyrene	8E-10	- -	1E-09	- -	2E-09	N/A	N/A	- -	N/A	N/A
			Phenanthrene	N/A	- -	N/A	- -	N/A	General Toxicity	6E-06	- -	8E-06	1E-05
			Antimony	N/A	- -	- -	- -	N/A	Blood	5E-04	- -	- -	5E-04
			Arsenic	4E-06	- -	3E-06	- -	8E-06	Skin	2E-03	- -	2E-03	4E-03
			Barium	N/A	- -	- -	- -	N/A	Cardiovascular	4E-05	- -	- -	4E-05
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	4E-05	- -	2E-04	2E-04
			Chromium III	N/A	- -	- -	- -	N/A	General Toxicity	1E-06	- -	- -	1E-06
			Copper	N/A	- -	- -	- -	N/A	Kidney	9E-05	- -	- -	9E-05
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	3E-04	- -	- -	3E-04
			Nickel	N/A	- -	- -	- -	N/A	General Toxicity	8E-05	- -	- -	8E-05
			Thallium	N/A	- -	- -	- -	N/A	Blood	2E-03	- -	- -	2E-03
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	2E-03	- -	- -	2E-03
			Zinc	N/A	- -	- -	- -	N/A	Blood	8E-05	- -	- -	8E-05
			Chemical Total	6E-06	- -	6E-06	- -	1E-07		7E-03	- -	2E-03	9E-03
			Radionuclide Total										
		Exposure Point Total						1E-07					9E-03
	Exposure Medium Total							1E-07					9E-03
Medium Total								1E-07					9E-03
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 Skin HI =	4E-03
Total Nervous System HI =	4E-04
Total Immune System HI =	9E-06
Total Kidney HI =	3E-03
Total Blood HI =	2E-03
Total General Toxicity HI =	9E-05
Total Liver HI =	N/A
Total Gastrointestinal System HI =	1E-04
Total Cardiovascular HI =	4E-05
Total Developmental HI =	N/A

TABLE 3-9.69.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Older Child + Adult					Non-Carcinogenic Hazard Quotient Older Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Fish Fillet Tissue	Reach 3											
			4,4'-DDD	7E-08	--	--	--	7E-08	Immune System	4E-04	--	--	4E-04
			4,4'-DDE	2E-07	--	--	--	2E-07	Developmental	6E-03	--	--	6E-03
			4,4'-DDT	4E-08	--	--	--	4E-08	Liver	6E-04	--	--	6E-04
			Aldrin	2E-07	--	--	--	2E-07	Liver	1E-03	--	--	1E-03
			alpha-Chlordane	8E-08	--	--	--	8E-08	Liver	1E-03	--	--	1E-03
			Aroclor-1254	2E-06	--	--	--	2E-06	Immune System	1E-01	--	--	1E-01
			Aroclor-1260	5E-06	--	--	--	5E-06	Immune System	3E-01	--	--	3E-01
			delta-BHC	N/A	--	--	--	N/A	Liver/Kidney	2E-04	--	--	2E-04
			Dieldrin	1E-06	--	--	--	1E-06	Liver	5E-03	--	--	5E-03
			Heptachlor epoxide	3E-07	--	--	--	3E-07	Liver	7E-03	--	--	7E-03
			Antimony	N/A	--	--	--	N/A	Blood	2E-02	--	--	2E-02
			Lead										
			Mercury	N/A	--	--	--	N/A	Nervous System	4E-01	--	--	4E-01
			Selenium	N/A	--	--	--	N/A	Liver	1E-02	--	--	1E-02
			Chemical Total	9E-06	--	--	--	9E-06		9E-01	--	--	9E-01
			Radionuclide Total										
		Exposure Point Total						9E-06					9E-01
	Exposure Medium Total							9E-06					9E-01
Medium Total								9E-06					9E-01
Receptor Total								9E-06					9E-01

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 9E-06

Total Hazard Across All Media: 9E-01

Total Skin HI =	N/A
Total Nervous System HI =	4E-01
Total Immune System HI =	4E-01
Total Kidney HI =	2E-04
Total Blood HI =	2E-02
Total General Toxicity HI =	N/A
Total Liver HI =	3E-02
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	6E-03

TABLE 3-9.69.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Older Child + Adult					Non-Carcinogenic Hazard Quotient Older Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Fish Fillet Tissue	Reach 3											
			4,4'-DDD	8E-09	--	--	--	8E-09	Immune System	1E-04	--	--	1E-04
			4,4'-DDE	3E-08	--	--	--	3E-08	Developmental	2E-03	--	--	2E-03
			4,4'-DDT	5E-09	--	--	--	5E-09	Liver	2E-04	--	--	2E-04
			Aldrin	3E-08	--	--	--	3E-08	Liver	4E-04	--	--	4E-04
			alpha-Chlordane	1E-08	--	--	--	1E-08	Liver	5E-04	--	--	5E-04
			Aroclor-1254	1E-07	--	--	--	1E-07	Immune System	4E-02	--	--	4E-02
			Aroclor-1260	3E-07	--	--	--	3E-07	Immune System	1E-01	--	--	1E-01
			delta-BHC	N/A	--	--	--	N/A	Liver/Kidney	7E-05	--	--	7E-05
			Dieldrin	2E-07	--	--	--	2E-07	Liver	2E-03	--	--	2E-03
			Heptachlor epoxide	4E-08	--	--	--	4E-08	Liver	3E-03	--	--	3E-03
			Antimony	N/A	--	--	--	N/A	Blood	1E-02	--	--	1E-02
			Lead										
			Mercury	N/A	--	--	--	N/A	Nervous System	1E-01	--	--	1E-01
			Selenium	N/A	--	--	--	N/A	Liver	5E-03	--	--	5E-03
			Chemical Total	7E-07	--	--	--	7E-07		3E-01	--	--	3E-01
			Radionuclide Total										
		Exposure Point Total						7E-07					3E-01
	Exposure Medium Total							7E-07					3E-01
Medium Total								7E-07					3E-01
Receptor Total								7E-07					3E-01

-- = Not Evaluated

N/A = Not Applicable

Total Risk Across All Media: 7E-07

Total Hazard Across All Media: 3E-01

Total Skin HI =	N/A
Total Nervous System HI =	1E-01
Total Immune System HI =	2E-01
Total Kidney HI =	7E-05
Total Blood HI =	1E-02
Total General Toxicity HI =	N/A
Total Liver HI =	1E-02
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	2E-03

TABLE 3-9.70.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Older Child + Adult					Non-Carcinogenic Hazard Quotient Older Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Fish Fillet Tissue	Reaches 4 and 5											
			4,4'-DDD	2E-07	--	--	--	2E-07	Immune System	8E-04	--	--	8E-04
			4,4'-DDE	1E-06	--	--	--	1E-06	Developmental	3E-02	--	--	3E-02
			4,4'-DDT	1E-07	--	--	--	1E-07	Liver	2E-03	--	--	2E-03
			Aldrin	4E-07	--	--	--	4E-07	Liver	2E-03	--	--	2E-03
			alpha-Chlordane	4E-08	--	--	--	4E-08	Liver	5E-04	--	--	5E-04
			Aroclor-1254	7E-06	--	--	--	7E-06	Immune System	4E-01	--	--	4E-01
			Aroclor-1260	2E-05	--	--	--	2E-05	Immune System	1E+00	--	--	1E+00
			Dieldrin	1E-06	--	--	--	1E-06	Liver	3E-03	--	--	3E-03
			Antimony	N/A	--	--	--	N/A	Blood	2E-02	--	--	2E-02
			Lead										
			Mercury	N/A	--	--	--	N/A	Nervous System	3E-01	--	--	3E-01
			Selenium	N/A	--	--	--	N/A	Liver	1E-02	--	--	1E-02
			Chemical Total	3E-05	--	--	--	3E-05		2E+00	--	--	2E+00
			Radionuclide Total										
		Exposure Point Total						3E-05					2E+00
	Exposure Medium Total							3E-05					2E+00
Medium Total								3E-05					2E+00
Receptor Total								3E-05					2E+00

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-05

Total Hazard Across All Media: 2E+00

Total Skin HI =	N/A
Total Nervous System HI =	3E-01
Total Immune System HI =	1E+00
Total Kidney HI =	N/A
Total Blood HI =	2E-02
Total General Toxicity HI =	N/A
Total Liver HI =	2E-02
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	3E-02

TABLE 3-9.70.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Older Child + Adult					Non-Carcinogenic Hazard Quotient Older Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Fish Fillet Tissue	Reaches 4 and 5											
			4,4'-DDD	2E-08	--	--	--	2E-08	Immune System	3E-04	--	--	3E-04
			4,4'-DDE	1E-07	--	--	--	1E-07	Developmental	1E-02	--	--	1E-02
			4,4'-DDT	1E-08	--	--	--	1E-08	Liver	7E-04	--	--	7E-04
			Aldrin	4E-08	--	--	--	4E-08	Liver	7E-04	--	--	7E-04
			alpha-Chlordane	4E-09	--	--	--	4E-09	Liver	2E-04	--	--	2E-04
			Aroclor-1254	4E-07	--	--	--	4E-07	Immune System	2E-01	--	--	2E-01
			Aroclor-1260	9E-07	--	--	--	9E-07	Immune System	4E-01	--	--	4E-01
			Dieldrin	1E-07	--	--	--	1E-07	Liver	1E-03	--	--	1E-03
			Antimony	N/A	--	--	--	N/A	Blood	8E-03	--	--	8E-03
			Lead										
			Mercury	N/A	--	--	--	N/A	Nervous System	1E-01	--	--	1E-01
			Selenium	N/A	--	--	--	N/A	Liver	5E-03	--	--	5E-03
			Chemical Total	2E-06	--	--	--	2E-06		7E-01	--	--	7E-01
			Radionuclide Total										
		Exposure Point Total						2E-06					7E-01
	Exposure Medium Total							2E-06					7E-01
Medium Total								2E-06					7E-01
Receptor Total								2E-06					7E-01

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-06

Total Hazard Across All Media: 7E-01

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

TABLE 3-9.71.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Older Child + Adult					Non-Carcinogenic Hazard Quotient Older Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Fish Fillet Tissue	Reach 6											
			4,4'-DDD	2E-07	--	--	--	2E-07	Immune System	1E-03	--	--	1E-03
			4,4'-DDE	8E-07	--	--	--	8E-07	Developmental	2E-02	--	--	2E-02
			4,4'-DDT	7E-08	--	--	--	7E-08	Liver	1E-03	--	--	1E-03
			Aldrin	4E-07	--	--	--	4E-07	Liver	2E-03	--	--	2E-03
			alpha-Chlordane	1E-07	--	--	--	1E-07	Liver	2E-03	--	--	2E-03
			Aroclor-1248	6E-07	--	--	--	6E-07	Immune System	4E-02	--	--	4E-02
			Aroclor-1254	1E-05	--	--	--	1E-05	Immune System	7E-01	--	--	7E-01
			Aroclor-1260	6E-06	--	--	--	6E-06	Immune System	4E-01	--	--	4E-01
			Dieldrin	2E-06	--	--	--	2E-06	Liver	5E-03	--	--	5E-03
			Heptachlor epoxide	2E-07	--	--	--	2E-07	Liver	4E-03	--	--	4E-03
			Arsenic	1E-05	--	--	--	1E-05	Skin	5E-02	--	--	5E-02
			Lead										
			Mercury	N/A	--	--	--	N/A	Nervous System	2E-01	--	--	2E-01
			Selenium	N/A	--	--	--	N/A	Liver	1E-02	--	--	1E-02
			Chemical Total	3E-05	--	--	--	3E-05		1E+00	--	--	1E+00
			Radionuclide Total										
		Exposure Point Total						3E-05					1E+00
	Exposure Medium Total							3E-05					1E+00
Medium Total								3E-05					1E+00
Receptor Total								3E-05					1E+00

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-05

Total Hazard Across All Media: 1E+00

Total Skin HI =	5E-02
Total Nervous System HI =	2E-01
Total Immune System HI =	1E+00
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	3E-02
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	2E-02

TABLE 3-9.71.CT
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

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

Medium	Exposure Medium	Exposure Point	Chemical of Potential Concern	Carcinogenic Risk Older Child + Adult					Non-Carcinogenic Hazard Quotient Older Child				
				Ingestion	Inhalation	Dermal	External (Radiation)	Exposure Routes Total	Primary Target Organ	Ingestion	Inhalation	Dermal	Exposure Routes Total
Surface Water	Fish Fillet Tissue	Reach 6											
			4,4'-DDD	2E-08	--	--	--	2E-08	Immune System	4E-04	--	--	4E-04
			4,4'-DDE	9E-08	--	--	--	9E-08	Developmental	8E-03	--	--	8E-03
			4,4'-DDT	8E-09	--	--	--	8E-09	Liver	4E-04	--	--	4E-04
			Aldrin	4E-08	--	--	--	4E-08	Liver	7E-04	--	--	7E-04
			alpha-Chlordane	1E-08	--	--	--	1E-08	Liver	7E-04	--	--	7E-04
			Aroclor-1248	4E-08	--	--	--	4E-08	Immune System	2E-02	--	--	2E-02
			Aroclor-1254	6E-07	--	--	--	6E-07	Immune System	3E-01	--	--	3E-01
			Aroclor-1260	4E-07	--	--	--	4E-07	Immune System	2E-01	--	--	2E-01
			Dieldrin	2E-07	--	--	--	2E-07	Liver	2E-03	--	--	2E-03
			Heptachlor epoxide	2E-08	--	--	--	2E-08	Liver	2E-03	--	--	2E-03
			Arsenic	1E-06	--	--	--	1E-06	Skin	2E-02	--	--	2E-02
			Lead										
			Mercury	N/A	--	--	--	N/A	Nervous System	6E-02	--	--	6E-02
			Selenium	N/A	--	--	--	N/A	Liver	5E-03	--	--	5E-03
			Chemical Total	2E-06	--	--	--	2E-06		5E-01	--	--	5E-01
			Radionuclide Total										
		Exposure Point Total						2E-06					5E-01
	Exposure Medium Total							2E-06					5E-01
Medium Total								2E-06					5E-01
Receptor Total								2E-06					5E-01

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-06

Total Hazard Across All Media: 5E-01

Total Skin HI =	2E-02
Total Nervous System HI =	6E-02
Total Immune System HI =	4E-01
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	1E-02
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	8E-03

TABLE 3-9.72.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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
Surface Water	Surface Water	AJRW (Reach 5)	Chloroform	--	--	N/A	--	N/A	Liver	--	--	5E-05	5E-05
			Tetrachloroethene	--	--	9E-07	--	9E-07	Liver	--	--	7E-04	7E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	9E-04	9E-04
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	5E-03	5E-03
			Chemical Total	--	--	9E-07	--	9E-07		--	--	6E-03	6E-03
			Radionuclide Total										
		Exposure Point Total						9E-07					6E-03
	Exposure Medium Total							9E-07					6E-03
Medium Total								9E-07					6E-03
Sediment	Sediment	AJRW	Arsenic	3E-06	--	9E-07	--	3E-06	Skin	5E-02	--	2E-02	6E-02
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	5E-03	--	--	5E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	1E-02	--	--	1E-02
			Chemical Total	3E-06	--	9E-07	--	3E-06		6E-02	--	2E-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
Soil	Surface Soil	AJRW	Arsenic	2E-05	--	3E-06	--	2E-05	Skin	3E-01	--	5E-02	4E-01
			Chromium III	N/A	--	--	--	N/A	General Toxicity	5E-05	--	--	5E-05
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	7E-03	--	--	7E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	9E-03	--	--	9E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	7E-02	--	--	7E-02
			Chemical Total	2E-05	--	3E-06	--	2E-05		4E-01	--	5E-02	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								3E-05					5E-01

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-05

Using the MADEP slope factor for PCE, the risk for this receptor would change to: 2E-05

Total Hazard Across All Media: 5E-01

Total Skin HI =	4E-01
Total Nervous System HI =	3E-02
Total Immune System HI =	N/A
Total Kidney HI =	7E-02
Total Blood HI =	N/A
Total General Toxicity HI =	5E-05
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.72 CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Surface Water	AJRW (Reach 5)	Chloroform	--	--	N/A	--	N/A	Liver	--	--	1E-05	1E-05
			Tetrachloroethene	--	--	6E-08	--	6E-08	Liver	--	--	2E-04	2E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	2E-04	2E-04
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	8E-04	8E-04
			Chemical Total	--	--	6E-08	--	6E-08		--	--	1E-03	1E-03
			Radionuclide Total										
		Exposure Point Total						6E-08					1E-03
	Exposure Medium Total							6E-08					1E-03
Medium Total								6E-08					1E-03
Sediment	Sediment	AJRW	Arsenic	1E-07	--	1E-07	--	2E-07	Skin	8E-03	--	5E-03	1E-02
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	6E-04	--	--	6E-04
			Mercury	N/A	--	--	--	N/A	Nervous System	2E-03	--	--	2E-03
			Chemical Total	1E-07	--	1E-07	--	2E-07		1E-02	--	5E-03	2E-02
			Radionuclide Total										
		Exposure Point Total						2E-07					2E-02
	Exposure Medium Total							2E-07					2E-02
Medium Total								2E-07					2E-02
Soil	Surface Soil	AJRW	Arsenic	9E-07	--	4E-07	--	1E-06	Skin	5E-02	--	2E-02	7E-02
			Chromium III	N/A	--	--	--	N/A	General Toxicity	8E-06	--	--	8E-06
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	1E-03	--	--	1E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	2E-03	--	--	2E-03
			Vanadium	N/A	--	--	--	N/A	Kidney	1E-02	--	--	1E-02
			Chemical Total	9E-07	--	4E-07	--	1E-06		7E-02	--	2E-02	9E-02
			Radionuclide Total										
		Exposure Point Total						1E-06					9E-02
	Exposure Medium Total							1E-06					9E-02
Medium Total								1E-06					9E-02
Receptor Total								2E-06					1E-01

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-06

Using the MADEP slope factor for PCE, the risk for this receptor would change to: 2E-06

Total Hazard Across All Media: 1E-01

Total Skin HI =	6E-02
Total Nervous System HI =	5E-03
Total Immune System HI =	N/A
Total Kidney HI =	1E-02
Total Blood HI =	N/A
Total General Toxicity HI =	8E-06
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.73.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Baseflow Surface Water	SW-05 - 26 days	Arsenic	--	- -	1E-07	- -	1E-07	Skin	- -	- -	1E-03	1E-03
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	3E-03	3E-03
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	3E-03	3E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	4E-05	4E-05
			Chemical Total	--	- -	1E-07	- -	1E-07		- -	- -	8E-03	8E-03
			Radionuclide Total										
		Exposure Point Total						1E-07					8E-03
	Exposure Medium Total							1E-07					8E-03
Medium Total								1E-07					8E-03
Receptor Total								1E-07					8E-03

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-07

Total Hazard Across All Media: 8E-03

Total Skin HI =	1E-03
Total Nervous System HI =	3E-03
Total Immune System HI =	4E-05
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	3E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.73.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Baseflow Surface Water	SW-05 - 26 days	Arsenic	--	- -	2E-08	- -	2E-08	Skin	- -	- -	5E-04	5E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	2E-03	2E-03
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	2E-03	2E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	2E-05	2E-05
			Chemical Total	--	- -	2E-08	- -	2E-08		- -	- -	4E-03	4E-03
			Radionuclide Total										
		Exposure Point Total						2E-08					4E-03
	Exposure Medium Total							2E-08					4E-03
Medium Total								2E-08					4E-03
Receptor Total								2E-08					4E-03

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-08

Total Hazard Across All Media: 4E-03

Total Skin HI =	5E-04
Total Nervous System HI =	2E-03
Total Immune System HI =	2E-05
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	2E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.74.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Baseflow Surface Water	SW-05 - 52 days	Arsenic	--	--	2E-07	--	2E-07	Skin	--	--	2E-03	2E-03
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	7E-03	7E-03
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	6E-03	6E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	8E-05	8E-05
			Chemical Total	--	--	2E-07	--	2E-07		--	--	2E-02	2E-02
			Radionuclide Total										
		Exposure Point Total						2E-07					2E-02
	Exposure Medium Total							2E-07					2E-02
Medium Total								2E-07					2E-02
Receptor Total								2E-07					2E-02

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-07

Total Hazard Across All Media: 2E-02

Total Skin HI =	2E-03
Total Nervous System HI =	6E-03
Total Immune System HI =	8E-05
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	7E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.75.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Baseflow Surface Water	SW-05 - 78 days	Arsenic	--	- -	3E-07	- -	3E-07	Skin	- -	- -	3E-03	3E-03
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	1E-02	1E-02
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	9E-03	9E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	1E-04	1E-04
			Chemical Total	--	- -	3E-07	- -	3E-07		- -	- -	2E-02	2E-02
			Radionuclide Total										
		Exposure Point Total						3E-07					2E-02
	Exposure Medium Total							3E-07					2E-02
Medium Total								3E-07					2E-02
Receptor Total								3E-07					2E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-07

Total Hazard Across All Media: 2E-02

Total Skin HI =	3E-03
Total Nervous System HI =	9E-03
Total Immune System HI =	1E-04
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	1E-02
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.75.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Baseflow Surface Water	SW-05 - 78 days	Arsenic	--	- -	5E-08	- -	5E-08	Skin	- -	- -	2E-03	2E-03
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	5E-03	5E-03
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	5E-03	5E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	6E-05	6E-05
			Chemical Total	--	- -	5E-08	- -	5E-08		- -	- -	1E-02	1E-02
			Radionuclide Total										
		Exposure Point Total						5E-08					1E-02
	Exposure Medium Total							5E-08					1E-02
Medium Total								5E-08					1E-02
Receptor Total								5E-08					1E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 5E-08

Total Hazard Across All Media: 1E-02

Total Skin HI =	2E-03
Total Nervous System HI =	5E-03
Total Immune System HI =	6E-05
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	5E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.76.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Baseflow Surface Water	SW-05 - 104 days	Arsenic	--	- -	4E-07	- -	4E-07	Skin	- -	- -	4E-03	4E-03
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	1E-02	1E-02
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-02	1E-02
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	2E-04	2E-04
			Chemical Total	--	- -	4E-07	- -	4E-07		- -	- -	3E-02	3E-02
			Radionuclide Total										
		Exposure Point Total						4E-07					3E-02
	Exposure Medium Total							4E-07					3E-02
Medium Total								4E-07					3E-02
Receptor Total								4E-07					3E-02

- - = Not Evaluated

N/A = Not Applicable

Total Risk Across All Media: 4E-07

Total Hazard Across All Media: 3E-02

Total Skin HI =	4E-03
Total Nervous System HI =	1E-02
Total Immune System HI =	2E-04
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	1E-02
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.77.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Baseflow Surface Water	SW-06 - 26 days	Arsenic	--	- -	7E-08	- -	7E-08	Skin	- -	- -	6E-04	6E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	2E-03	2E-03
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	3E-03	3E-03
			Chemical Total	--	- -	7E-08	- -	7E-08		- -	- -	6E-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 Skin HI =	6E-04
Total Nervous System HI =	3E-03
Total Immune System HI =	N/A
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	2E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.77.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Baseflow Surface Water	SW-06 - 26 days	Arsenic	--	- -	1E-08	- -	1E-08	Skin	- -	- -	3E-04	3E-04
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	1E-03	1E-03
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-03	1E-03
			Chemical Total	--	- -	1E-08	- -	1E-08		- -	- -	3E-03	3E-03
			Radionuclide Total										
		Exposure Point Total						1E-08					3E-03
	Exposure Medium Total							1E-08					3E-03
Medium Total								1E-08					3E-03
Receptor Total								1E-08					3E-03

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-08

Total Hazard Across All Media: 3E-03

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

TABLE 3-9.78.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Baseflow Surface Water	SW05 - 78 days	Arsenic	--	- -	2E-07	- -	2E-07	Skin	- -	- -	2E-03	2E-03
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	7E-03	7E-03
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	8E-03	8E-03
			Chemical Total	--	- -	2E-07	- -	2E-07		- -	- -	2E-02	2E-02
			Radionuclide Total										
		Exposure Point Total						2E-07					2E-02
	Exposure Medium Total							2E-07					2E-02
Medium Total								2E-07					2E-02
Receptor Total								2E-07					2E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-07

Total Hazard Across All Media: 2E-02

Total Skin HI =	2E-03
Total Nervous System HI =	8E-03
Total Immune System HI =	N/A
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	7E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.78.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Baseflow Surface Water	SW05 - 78 days	Arsenic	--	- -	3E-08	- -	3E-08	Skin	- -	- -	1E-03	1E-03
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	3E-03	3E-03
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	4E-03	4E-03
			Chemical Total	--	- -	3E-08	- -	3E-08		- -	- -	8E-03	8E-03
			Radionuclide Total										
		Exposure Point Total						3E-08					8E-03
	Exposure Medium Total							3E-08					8E-03
Medium Total								3E-08					8E-03
Receptor Total								3E-08					8E-03

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-08

Total Hazard Across All Media: 8E-03

Total Skin HI =	1E-03
Total Nervous System HI =	4E-03
Total Immune System HI =	N/A
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	3E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.79.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Baseflow Surface Water	SW-06 - 104 days	Arsenic	--	- -	3E-07	- -	3E-07	Skin	- -	- -	3E-03	3E-03
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	9E-03	9E-03
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-02	1E-02
			Chemical Total	--	- -	3E-07	- -	3E-07		- -	- -	2E-02	2E-02
			Radionuclide Total										
		Exposure Point Total						3E-07					2E-02
	Exposure Medium Total							3E-07					2E-02
Medium Total								3E-07					2E-02
Receptor Total								3E-07					2E-02

- - = Not Evaluated

N/A = Not Applicable

Total Risk Across All Media: 3E-07

Total Hazard Across All Media: 2E-02

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

TABLE 3-9.80.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Baseflow Surface Water	SW-07 - 26 days	Arsenic	--	--	3E-08	--	3E-08	Skin	--	--	3E-04	3E-04
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	2E-03	2E-03
			Chemical Total	--	--	3E-08	--	3E-08		--	--	2E-03	2E-03
			Radionuclide Total										
		Exposure Point Total						3E-08					2E-03
	Exposure Medium Total							3E-08					2E-03
Medium Total								3E-08					2E-03
Receptor Total								3E-08					2E-03

-- = Not Evaluated

N/A = Not Applicable

Total Risk Across All Media: 3E-08

Total Hazard Across All Media: 2E-03

Total Skin HI =	3E-04
Total Nervous System HI =	2E-03
Total Immune System HI =	N/A
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.80.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Baseflow Surface Water	SW-07 - 26 days	Arsenic	--	- -	5E-09	- -	5E-09	Skin	- -	- -	1E-04	1E-04
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	1E-03	1E-03
			Chemical Total	--	- -	5E-09	- -	5E-09		- -	- -	1E-03	1E-03
			Radionuclide Total										
		Exposure Point Total						5E-09					1E-03
	Exposure Medium Total							5E-09					1E-03
Medium Total								5E-09					1E-03
Receptor Total								5E-09					1E-03

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 5E-09

Total Hazard Across All Media: 1E-03

Total Skin HI =	1E-04
Total Nervous System HI =	1E-03
Total Immune System HI =	N/A
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.81.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Baseflow Surface Water	SW-07 - 78 days	Arsenic	--	- -	9E-08	- -	9E-08	Skin	- -	- -	9E-04	9E-04
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	6E-03	6E-03
			Chemical Total	--	- -	9E-08	- -	9E-08		- -	- -	7E-03	7E-03
			Radionuclide Total										
		Exposure Point Total						9E-08					7E-03
	Exposure Medium Total							9E-08					7E-03
Medium Total								9E-08					7E-03
Receptor Total								9E-08					7E-03

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 9E-08

Total Hazard Across All Media: 7E-03

Total Skin HI =	9E-04
Total Nervous System HI =	6E-03
Total Immune System HI =	N/A
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.82.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Baseflow Surface Water	SW-08 - 78 days	Arsenic	--	- -	6E-08	- -	6E-08	Skin	- -	- -	6E-04	6E-04
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	4E-03	4E-03
			Chemical Total	--	- -	6E-08	- -	6E-08		- -	- -	5E-03	5E-03
			Radionuclide Total										
		Exposure Point Total						6E-08					5E-03
	Exposure Medium Total							6E-08					5E-03
Medium Total								6E-08					5E-03
Receptor Total								6E-08					5E-03

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 6E-08

Total Hazard Across All Media: 5E-03

Total Skin HI =	6E-04
Total Nervous System HI =	4E-03
Total Immune System HI =	N/A
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.82.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Baseflow Surface Water	SW-08 - 26 days	Arsenic	--	--	3E-09	--	3E-09	Skin	--	--	1E-04	1E-04
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	7E-04	7E-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
Receptor Total								3E-09					8E-04

-- = Not Evaluated

N/A = Not Applicable

Total Risk Across All Media: 3E-09

Total Hazard Across All Media: 8E-04

Total Skin HI =	1E-04
Total Nervous System HI =	7E-04
Total Immune System HI =	N/A
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.83.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Baseflow Surface Water	SW-09 - 78 days	Arsenic	--	--	4E-08	--	4E-08	Skin	--	--	4E-04	4E-04
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	8E-04	8E-04
			Chemical Total	--	--	4E-08	--	4E-08		--	--	1E-03	1E-03
			Radionuclide Total										
		Exposure Point Total						4E-08					1E-03
	Exposure Medium Total							4E-08					1E-03
Medium Total								4E-08					1E-03
Receptor Total								4E-08					1E-03

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 4E-08

Total Hazard Across All Media: 1E-03

Total Skin HI =	4E-04
Total Nervous System HI =	8E-04
Total Immune System HI =	N/A
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.83.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Baseflow Surface Water	SW-09 - 26 days	Arsenic	--	--	2E-09	--	2E-09	Skin	--	--	6E-05	6E-05
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	1E-04	1E-04
			Chemical Total	--	--	2E-09	--	2E-09		--	--	2E-04	2E-04
			Radionuclide Total										
		Exposure Point Total						2E-09					2E-04
	Exposure Medium Total							2E-09					2E-04
Medium Total								2E-09					2E-04
Receptor Total								2E-09					2E-04

-- = Not Evaluated

N/A = Not Applicable

Total Risk Across All Media: 2E-09

Total Hazard Across All Media: 2E-04

Total Skin HI =	6E-05
Total Nervous System HI =	1E-04
Total Immune System HI =	N/A
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.84.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Baseflow Surface Water	SW-10 - 39 days	Arsenic	2E-07	- -	4E-08	- -	2E-07	Skin	2E-03	- -	3E-04	2E-03
			Mercury	N/A	- -	N/A	- -	N/A	Immune System	3E-04	- -	5E-04	7E-04
			Chemical Total	2E-07	- -	4E-08	- -	2E-07		2E-03	- -	8E-04	3E-03
			Radionuclide Total										
		Exposure Point Total						2E-07					3E-03
	Exposure Medium Total							2E-07					3E-03
Medium Total								2E-07					3E-03
Receptor Total								2E-07					3E-03

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-07

Total Hazard Across All Media: 3E-03

Total Skin HI =	2E-03
Total Nervous System HI =	N/A
Total Immune System HI =	7E-04
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.84.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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
Surface Water	Baseflow Surface Water	SW-10 - 5 days	Arsenic	3E-09	--	7E-10	--	4E-09	Skin	1E-04	--	2E-05	2E-04
			Mercury	N/A	--	N/A	--	N/A	Immune System	2E-05	--	3E-05	5E-05
			Chemical Total	3E-09	--	7E-10	--	4E-09		2E-04	--	5E-05	2E-04
			Radionuclide Total										
		Exposure Point Total						4E-09					2E-04
	Exposure Medium Total							4E-09					2E-04
Medium Total								4E-09					2E-04
Receptor Total								4E-09					2E-04

-- = Not Evaluated

N/A = Not Applicable

Total Risk Across All Media: 4E-09

Total Hazard Across All Media: 2E-04

Total Skin HI =	2E-04
Total Nervous System HI =	N/A
Total Immune System HI =	5E-05
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.85.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Area Resident
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
Surface Water	Storm Event Surface Water	SW-05											
			Antimony	--	- -	N/A	- -	N/A	Blood	- -	- -	1E-03	1E-03
			Arsenic	--	- -	1E-07	- -	1E-07	Skin	- -	- -	1E-03	1E-03
			Chromium VI	--	- -	N/A	- -	N/A	Gastrointestinal System	- -	- -	6E-03	6E-03
			Manganese	--	- -	N/A	- -	N/A	Nervous System	- -	- -	3E-03	3E-03
			Mercury	--	- -	N/A	- -	N/A	Immune System	- -	- -	9E-05	9E-05
			Chemical Total	--	- -	1E-07	- -	1E-07		- -	- -	1E-02	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 Skin HI =	1E-03
Total Nervous System HI =	3E-03
Total Immune System HI =	9E-05
Total Kidney HI =	N/A
Total Blood HI =	1E-03
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	6E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.85.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Area Resident
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
Surface Water	Storm Event Surface Water	SW-05											
			Antimony	--	--	N/A	--	N/A	Blood	--	--	2E-04	2E-04
			Arsenic	--	--	1E-08	--	1E-08	Skin	--	--	3E-04	3E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	1E-03	1E-03
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	8E-04	8E-04
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	2E-05	2E-05
			Chemical Total	--	--	1E-08	--	1E-08		--	--	3E-03	3E-03
			Radionuclide Total										
		Exposure Point Total						1E-08					3E-03
	Exposure Medium Total							1E-08					3E-03
Medium Total								1E-08					3E-03
Receptor Total								1E-08					3E-03

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-08

Total Hazard Across All Media: 3E-03

Total Skin HI =	3E-04
Total Nervous System HI =	8E-04
Total Immune System HI =	2E-05
Total Kidney HI =	N/A
Total Blood HI =	2E-04
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	1E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.86.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Area Resident
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
Surface Water	Storm Event Surface Water	SW-06											
			Antimony	--	--	N/A	--	N/A	Blood	--	--	1E-03	1E-03
			Arsenic	--	--	2E-07	--	2E-07	Skin	--	--	2E-03	2E-03
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	1E-02	1E-02
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	3E-03	3E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	2E-04	2E-04
			Chemical Total	--	--	2E-07	--	2E-07		--	--	2E-02	2E-02
			Radionuclide Total										
		Exposure Point Total						2E-07					2E-02
	Exposure Medium Total							2E-07					2E-02
Medium Total								2E-07					2E-02
Receptor Total								2E-07					2E-02

-- = Not Evaluated

N/A = Not Applicable

Total Risk Across All Media: 2E-07

Total Hazard Across All Media: 2E-02

Total Skin HI =	2E-03
Total Nervous System HI =	3E-03
Total Immune System HI =	2E-04
Total Kidney HI =	N/A
Total Blood HI =	1E-03
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	1E-02
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.86.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Area Resident
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
Surface Water	Storm Event Surface Water	SW-06											
			Antimony	--	--	N/A	--	N/A	Blood	--	--	3E-04	3E-04
			Arsenic	--	--	1E-08	--	1E-08	Skin	--	--	4E-04	4E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	3E-03	3E-03
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	8E-04	8E-04
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	2E-05	2E-05
			Chemical Total	--	--	1E-08	--	1E-08		--	--	4E-03	4E-03
			Radionuclide Total										
		Exposure Point Total						1E-08					4E-03
	Exposure Medium Total							1E-08					4E-03
Medium Total								1E-08					4E-03
Receptor Total								1E-08					4E-03

-- = Not Evaluated

N/A = Not Applicable

Total Risk Across All Media: 1E-08

Total Hazard Across All Media: 4E-03

Total Skin HI =	4E-04
Total Nervous System HI =	8E-04
Total Immune System HI =	2E-05
Total Kidney HI =	N/A
Total Blood HI =	3E-04
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	3E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.87.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Area Resident
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
Surface Water	Storm Event Surface Water	SW-07	Arsenic	--	--	1E-07	--	1E-07	Skin	--	--	1E-03	1E-03
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	5E-03	5E-03
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	2E-03	2E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	8E-05	8E-05
			Chemical Total	--	--	1E-07	--	1E-07		--	--	8E-03	8E-03
			Radionuclide Total										
		Exposure Point Total						1E-07					8E-03
	Exposure Medium Total							1E-07					8E-03
Medium Total								1E-07					8E-03
Receptor Total								1E-07					8E-03

-- = Not Evaluated

N/A = Not Applicable

Total Risk Across All Media: 1E-07

Total Hazard Across All Media: 8E-03

Total Skin HI =	1E-03
Total Nervous System HI =	2E-03
Total Immune System HI =	8E-05
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	5E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.87.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Area Resident
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
Surface Water	Storm Event Surface Water	SW-07											
			Arsenic	--	--	8E-09	--	8E-09	Skin	--	--	2E-04	2E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	1E-03	1E-03
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	5E-04	5E-04
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	2E-05	2E-05
			Chemical Total	--	--	8E-09	--	8E-09		--	--	2E-03	2E-03
			Radionuclide Total										
		Exposure Point Total						8E-09					2E-03
	Exposure Medium Total							8E-09					2E-03
Medium Total								8E-09					2E-03
Receptor Total								8E-09					2E-03

-- = Not Evaluated

N/A = Not Applicable

Total Risk Across All Media: 8E-09

Total Hazard Across All Media: 2E-03

Total Skin HI =	2E-04
Total Nervous System HI =	5E-04
Total Immune System HI =	2E-05
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	1E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.88.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Area Resident
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
Surface Water	Storm Event Surface Water	SW-08											
			Antimony	--	--	N/A	--	N/A	Blood	--	--	5E-04	5E-04
			Arsenic	--	--	2E-07	--	2E-07	Skin	--	--	2E-03	2E-03
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	3E-02	3E-02
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	5E-03	5E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	2E-04	2E-04
			Thallium	--	--	N/A	--	N/A	Blood	--	--	5E-04	5E-04
			Chemical Total	--	--	2E-07	--	2E-07		--	--	4E-02	4E-02
			Radionuclide Total										
		Exposure Point Total						2E-07					4E-02
	Exposure Medium Total							2E-07					4E-02
Medium Total								2E-07					4E-02
Receptor Total								2E-07					4E-02

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 2E-07

Total Hazard Across All Media: 4E-02

Total Skin HI =	2E-03
Total Nervous System HI =	5E-03
Total Immune System HI =	2E-04
Total Kidney HI =	N/A
Total Blood HI =	1E-03
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	3E-02
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.88.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Area Resident
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
Surface Water	Storm Event Surface Water	SW-08											
			Antimony	--	--	N/A	--	N/A	Blood	--	--	1E-04	1E-04
			Arsenic	--	--	2E-08	--	2E-08	Skin	--	--	5E-04	5E-04
			Chromium VI	--	--	N/A	--	N/A	Gastrointestinal System	--	--	7E-03	7E-03
			Lead										
			Manganese	--	--	N/A	--	N/A	Nervous System	--	--	1E-03	1E-03
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	4E-05	4E-05
			Thallium	--	--	N/A	--	N/A	Blood	--	--	1E-04	1E-04
			Chemical Total	--	--	2E-08	--	2E-08		--	--	9E-03	9E-03
			Radionuclide Total										
		Exposure Point Total						2E-08					9E-03
	Exposure Medium Total							2E-08					9E-03
Medium Total								2E-08					9E-03
Receptor Total								2E-08					9E-03

-- = Not Evaluated

N/A = Not Applicable

Total Risk Across All Media: 2E-08

Total Hazard Across All Media: 9E-03

Total Skin HI =	5E-04
Total Nervous System HI =	1E-03
Total Immune System HI =	4E-05
Total Kidney HI =	N/A
Total Blood HI =	3E-04
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	7E-03
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.89.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Area Resident
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
Surface Water	Storm Event Surface Water	SW-09	Antimony	--	- -	N/A	- -	N/A	Blood	- -	- -	6E-04	6E-04
			Arsenic	--	- -	3E-08	- -	3E-08	Skin	- -	- -	3E-04	3E-04
			Chemical Total	--	- -	3E-08	- -	3E-08		- -	- -	9E-04	9E-04
			Radionuclide Total										
		Exposure Point Total						3E-08					9E-04
	Exposure Medium Total							3E-08					9E-04
Medium Total								3E-08					9E-04
Receptor Total								3E-08					9E-04

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-08

Total Hazard Across All Media: 9E-04

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

TABLE 3-9.89.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Area Resident
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
Surface Water	Storm Event Surface Water	SW-09	Antimony	--	--	N/A	--	N/A	Blood	--	--	2E-04	2E-04
			Arsenic	--	--	2E-09	--	2E-09	Skin	--	--	7E-05	7E-05
			Chemical Total	--	--	2E-09	--	2E-09		--	--	2E-04	2E-04
			Radionuclide Total										
		Exposure Point Total						2E-09					2E-04
	Exposure Medium Total							2E-09					2E-04
Medium Total								2E-09					2E-04
Receptor Total								2E-09					2E-04

-- = Not Evaluated

N/A = Not Applicable

Total Risk Across All Media: 2E-09

Total Hazard Across All Media: 2E-04

Total Skin HI =	7E-05
Total Nervous System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	N/A
Total Blood HI =	2E-04
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.90.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Area Resident
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
Surface Water	Storm Event Surface Water	SW-10	Arsenic	--	--	1E-08	--	1E-08	Skin	--	--	1E-04	1E-04
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	8E-05	8E-05
			Chemical Total	--	--	1E-08	--	1E-08		--	--	2E-04	2E-04
			Radionuclide Total										
		Exposure Point Total						1E-08					2E-04
	Exposure Medium Total							1E-08					2E-04
Medium Total								1E-08					2E-04
Receptor Total								1E-08					2E-04

-- = Not Evaluated

N/A = Not Applicable

Total Risk Across All Media: 1E-08

Total Hazard Across All Media: 2E-04

Total Skin HI =	1E-04
Total Nervous System HI =	N/A
Total Immune System HI =	8E-05
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.90.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Area Resident
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
Surface Water	Storm Event Surface Water	SW-10	Arsenic	--	--	1E-09	--	1E-09	Skin	--	--	4E-05	4E-05
			Mercury	--	--	N/A	--	N/A	Immune System	--	--	2E-05	2E-05
			Chemical Total	--	--	1E-09	--	1E-09		--	--	5E-05	5E-05
			Radionuclide Total										
		Exposure Point Total						1E-09					5E-05
	Exposure Medium Total							1E-09					5E-05
Medium Total								1E-09					5E-05
Receptor Total								1E-09					5E-05

-- = Not Evaluated

N/A = Not Applicable

Total Risk Across All Media: 1E-09

Total Hazard Across All Media: 5E-05

Total Skin HI =	4E-05
Total Nervous System HI =	N/A
Total Immune System HI =	2E-05
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.91.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

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	SC05											
			Antimony	N/A	- -	- -	- -	N/A	Blood	4E-02	- -	- -	4E-02
			Arsenic	3E-05	- -	5E-06	- -	3E-05	Skin	2E+00	- -	4E-01	2E+00
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	3E-02	- -	4E-02	7E-02
			Copper	N/A	- -	- -	- -	N/A	Kidney	7E-02	- -	- -	7E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	7E-03	- -	- -	7E-03
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	3E-01	- -	- -	3E-01
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	8E-02	- -	- -	8E-02
			Chemical Total	3E-05	- -	5E-06	- -	3E-05		3E+00	- -	4E-01	3E+00
			Radionuclide Total										
		Exposure Point Total						3E-05					3E+00
	Exposure Medium Total							3E-05					3E+00
Medium Total								3E-05					3E+00
Receptor Total								3E-05					3E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 3E-05

Total Hazard Across All Media: 3E+00

Total Skin HI =	2E+00
Total Nervous System HI =	3E-01
Total Immune System HI =	N/A
Total Kidney HI =	2E-01
Total Blood HI =	4E-02
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.91.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

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	SC05											
			Antimony	N/A	--	--	--	N/A	Blood	2E-02	--	--	2E-02
			Arsenic	4E-06	--	7E-07	--	5E-06	Skin	6E-01	--	1E-01	7E-01
			Cadmium	N/A	--	N/A	--	N/A	Kidney	1E-02	--	2E-02	3E-02
			Copper	N/A	--	--	--	N/A	Kidney	2E-02	--	--	2E-02
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	3E-03	--	--	3E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	2E-01	--	--	2E-01
			Vanadium	N/A	--	--	--	N/A	Kidney	4E-02	--	--	4E-02
			Chemical Total	4E-06	--	7E-07	--	5E-06		8E-01	--	1E-01	1E+00
			Radionuclide Total										
		Exposure Point Total						5E-06					1E+00
	Exposure Medium Total							5E-06					1E+00
Medium Total								5E-06					1E+00
Receptor Total								5E-06					1E+00

-- = Not Evaluated

N/A = Not Applicable

Total Risk Across All Media: 5E-06

Total Hazard Across All Media: 1E+00

Total Skin HI =	7E-01
Total Nervous System HI =	2E-01
Total Immune System HI =	N/A
Total Kidney HI =	9E-02
Total Blood HI =	2E-02
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.92.RME
SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

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	SC06											
			Arsenic	5E-05	--	9E-06	--	6E-05	Skin	4E+00	--	7E-01	4E+00
			Cadmium	N/A	--	N/A	--	N/A	Kidney	6E-02	--	7E-02	1E-01
			Copper	N/A	--	--	--	N/A	Kidney	4E-02	--	--	4E-02
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	3E-02	--	--	3E-02
			Mercury	N/A	--	--	--	N/A	Nervous System	1E-01	--	--	1E-01
			Vanadium	N/A	--	--	--	N/A	Kidney	8E-02	--	--	8E-02
			Zinc	N/A	--	--	--	N/A	Blood	2E-02	--	--	2E-02
			Chemical Total	5E-05	--	9E-06	--	6E-05		4E+00	--	8E-01	5E+00
			Radionuclide Total										
		Exposure Point Total						6E-05					5E+00
	Exposure Medium Total							6E-05					5E+00
Medium Total								6E-05					5E+00
Receptor Total								6E-05					5E+00

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 6E-05

Total Hazard Across All Media: 5E+00

Total Skin HI =	4E+00
Total Nervous System HI =	1E-01
Total Immune System HI =	N/A
Total Kidney HI =	3E-01
Total Blood HI =	2E-02
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.92.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

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	SC06											
			Arsenic	6E-06	- -	1E-06	- -	7E-06	Skin	9E-01	- -	2E-01	1E+00
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	3E-02	- -	4E-02	7E-02
			Copper	N/A	- -	- -	- -	N/A	Kidney	1E-02	- -	- -	1E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	2E-02	- -	- -	2E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	3E-02	- -	- -	3E-02
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	2E-02	- -	- -	2E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	9E-03	- -	- -	9E-03
			Chemical Total	6E-06	- -	1E-06	- -	7E-06		1E+00	- -	2E-01	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

Total Skin HI =	1E+00
Total Nervous System HI =	5E-02
Total Immune System HI =	N/A
Total Kidney HI =	1E-01
Total Blood HI =	9E-03
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.93.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

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	SC07											
			Arsenic	1E-05	--	2E-06	--	1E-05	Skin	9E-01	--	2E-01	1E+00
			Cadmium	N/A	--	N/A	--	N/A	Kidney	3E-02	--	4E-02	7E-02
			Copper	N/A	--	--	--	N/A	Kidney	4E-02	--	--	4E-02
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	4E-02	--	--	4E-02
			Mercury	N/A	--	--	--	N/A	Nervous System	4E-02	--	--	4E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	9E-02	--	--	9E-02
			Zinc	N/A	--	--	--	N/A	Blood	2E-02	--	--	2E-02
			Chemical Total	1E-05	--	2E-06	--	1E-05		1E+00	--	2E-01	1E+00
			Radionuclide Total										
		Exposure Point Total						1E-05					1E+00
	Exposure Medium Total							1E-05					1E+00
Medium Total								1E-05					1E+00
Receptor Total								1E-05					1E+00

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-05

Total Hazard Across All Media: 1E+00

Total Skin HI =	1E+00
Total Nervous System HI =	9E-02
Total Immune System HI =	N/A
Total Kidney HI =	2E-01
Total Blood HI =	2E-02
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.93.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

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	SC07											
			Arsenic	3E-06	--	6E-07	--	3E-06	Skin	4E-01	--	9E-02	5E-01
			Cadmium	N/A	--	N/A	--	N/A	Kidney	1E-02	--	2E-02	3E-02
			Copper	N/A	--	--	--	N/A	Kidney	2E-02	--	--	2E-02
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	2E-02	--	--	2E-02
			Mercury	N/A	--	--	--	N/A	Nervous System	2E-02	--	--	2E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	4E-02	--	--	4E-02
			Zinc	N/A	--	--	--	N/A	Blood	9E-03	--	--	9E-03
			Chemical Total	3E-06	--	6E-07	--	3E-06		6E-01	--	1E-01	7E-01
			Radionuclide Total										
		Exposure Point Total						3E-06					7E-01
	Exposure Medium Total							3E-06					7E-01
Medium Total								3E-06					7E-01
Receptor Total								3E-06					7E-01

-- = Not Evaluated

N/A = Not Applicable

Total Risk Across All Media: 3E-06

Total Hazard Across All Media: 7E-01

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

TABLE 3-9.94.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

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	SC08											
			Arsenic	4E-05	- -	7E-06	- -	4E-05	Skin	3E+00	- -	5E-01	3E+00
			Cadmium	N/A	- -	N/A	- -	N/A	Kidney	3E-02	- -	4E-02	7E-02
			Copper	N/A	- -	- -	- -	N/A	Kidney	6E-02	- -	- -	6E-02
			Lead										
			Manganese	N/A	- -	- -	- -	N/A	Nervous System	1E-02	- -	- -	1E-02
			Mercury	N/A	- -	- -	- -	N/A	Nervous System	2E-01	- -	- -	2E-01
			Vanadium	N/A	- -	- -	- -	N/A	Kidney	9E-02	- -	- -	9E-02
			Zinc	N/A	- -	- -	- -	N/A	Blood	1E-02	- -	- -	1E-02
			Chemical Total	4E-05	- -	7E-06	- -	4E-05		3E+00	- -	6E-01	4E+00
			Radionuclide Total										
		Exposure Point Total						4E-05					4E+00
	Exposure Medium Total							4E-05					4E+00
Medium Total								4E-05					4E+00
Receptor Total								4E-05					4E+00

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 4E-05

Total Hazard Across All Media: 4E+00

Total Skin HI =	3E+00
Total Nervous System HI =	2E-01
Total Immune System HI =	N/A
Total Kidney HI =	2E-01
Total Blood HI =	1E-02
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.94.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

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	SC08											
			Arsenic	3E-06	--	5E-07	--	3E-06	Skin	4E-01	--	8E-02	5E-01
			Cadmium	N/A	--	N/A	--	N/A	Kidney	4E-03	--	6E-03	1E-02
			Copper	N/A	--	--	--	N/A	Kidney	8E-03	--	--	8E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	5E-03	--	--	5E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	2E-02	--	--	2E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	1E-02	--	--	1E-02
			Zinc	N/A	--	--	--	N/A	Blood	5E-03	--	--	5E-03
			Chemical Total	3E-06	--	5E-07	--	3E-06		4E-01	--	8E-02	5E-01
			Radionuclide Total										
		Exposure Point Total						3E-06					5E-01
	Exposure Medium Total							3E-06					5E-01
Medium Total								3E-06					5E-01
Receptor Total								3E-06					5E-01

-- = Not Evaluated

N/A = Not Applicable

Total Risk Across All Media: 3E-06

Total Hazard Across All Media: 5E-01

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

TABLE 3-9.95.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

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	SC09	Arsenic	3E-06	--	5E-07	--	3E-06	Skin	2E-01	--	4E-02	2E-01
			Mercury	N/A	--	--	--	N/A	Nervous System	2E-02	--	--	2E-02
			Chemical Total	3E-06	--	5E-07	--	3E-06		2E-01	--	4E-02	3E-01
			Radionuclide Total										
		Exposure Point Total						3E-06					3E-01
	Exposure Medium Total							3E-06					3E-01
Medium Total								3E-06					3E-01
Receptor Total								3E-06					3E-01

-- = Not Evaluated

N/A = Not Applicable

Total Risk Across All Media: 3E-06

Total Hazard Across All Media: 3E-01

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

TABLE 3-9.95.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

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	SC09	Arsenic	3E-07	--	7E-08	--	4E-07	Skin	5E-02	--	1E-02	6E-02
			Mercury	N/A	--	--	--	N/A	Nervous System	4E-03	--	--	4E-03
			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 Skin HI =	6E-02
Total Nervous System HI =	4E-03
Total Immune System HI =	N/A
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.96.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

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	SC10	Arsenic	2E-06	--	3E-07	--	2E-06	Skin	1E-01	--	3E-02	2E-01
			Chemical Total	2E-06	--	3E-07	--	2E-06		1E-01	--	3E-02	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 Skin HI =	2E-01
Total Nervous System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.96.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

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	SC10	Arsenic	4E-07	- -	8E-08	- -	5E-07	Skin	6E-02	- -	1E-02	8E-02
			Chemical Total	4E-07	- -	8E-08	- -	5E-07		6E-02	- -	1E-02	8E-02
			Radionuclide Total										
		Exposure Point Total						5E-07					8E-02
	Exposure Medium Total							5E-07					8E-02
Medium Total								5E-07					8E-02
Receptor Total								5E-07					8E-02

- - = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 5E-07

Total Hazard Across All Media: 8E-02

Total Skin HI =	8E-02
Total Nervous System HI =	N/A
Total Immune System HI =	N/A
Total Kidney HI =	N/A
Total Blood HI =	N/A
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.97.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

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	SC11											
			Arsenic	3E-06	--	6E-07	--	4E-06	Skin	2E-01	--	5E-02	3E-01
			Cadmium	N/A	--	N/A	--	N/A	Kidney	9E-03	--	1E-02	2E-02
			Copper	N/A	--	--	--	N/A	Kidney	1E-02	--	--	1E-02
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	1E-02	--	--	1E-02
			Mercury	N/A	--	--	--	N/A	Nervous System	3E-02	--	--	3E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	9E-02	--	--	9E-02
			Chemical Total	3E-06	--	6E-07	--	4E-06		4E-01	--	6E-02	5E-01
			Radionuclide Total										
		Exposure Point Total						4E-06					5E-01
	Exposure Medium Total							4E-06					5E-01
Medium Total								4E-06					5E-01
Receptor Total								4E-06					5E-01

-- = Not Evaluated

N/A = Not Applicable

Total Risk Across All Media: 4E-06

Total Hazard Across All Media: 5E-01

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

TABLE 3-9.97.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

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	SC11											
			Arsenic	7E-07	--	1E-07	--	9E-07	Skin	1E-01	--	2E-02	1E-01
			Cadmium	N/A	--	N/A	--	N/A	Kidney	4E-03	--	5E-03	9E-03
			Copper	N/A	--	--	--	N/A	Kidney	7E-03	--	--	7E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	6E-03	--	--	6E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	1E-02	--	--	1E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	5E-02	--	--	5E-02
			Chemical Total	7E-07	--	1E-07	--	9E-07		2E-01	--	3E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						9E-07					2E-01
	Exposure Medium Total							9E-07					2E-01
Medium Total								9E-07					2E-01
Receptor Total								9E-07					2E-01

-- = Not Evaluated

N/A = Not Applicable

Total Risk Across All Media: 9E-07

Total Hazard Across All Media: 2E-01

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

TABLE 3-9.98.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

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	SC12											
			Arsenic	4E-06	--	7E-07	--	4E-06	Skin	3E-01	--	6E-02	3E-01
			Cadmium	N/A	--	N/A	--	N/A	Kidney	1E-02	--	2E-02	3E-02
			Copper	N/A	--	--	--	N/A	Kidney	2E-02	--	--	2E-02
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	2E-02	--	--	2E-02
			Mercury	N/A	--	--	--	N/A	Nervous System	4E-02	--	--	4E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	1E-01	--	--	1E-01
			Chemical Total	4E-06	--	7E-07	--	4E-06		5E-01	--	8E-02	6E-01
			Radionuclide Total										
		Exposure Point Total						4E-06					6E-01
	Exposure Medium Total							4E-06					6E-01
Medium Total								4E-06					6E-01
Receptor Total								4E-06					6E-01

-- = Not Evaluated

N/A = Not Applicable

Total Risk Across All Media: 4E-06

Total Hazard Across All Media: 6E-01

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

TABLE 3-9.98.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

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	SC12											
			Arsenic	8E-07	--	2E-07	--	1E-06	Skin	1E-01	--	2E-02	1E-01
			Cadmium	N/A	--	N/A	--	N/A	Kidney	7E-03	--	9E-03	2E-02
			Copper	N/A	--	--	--	N/A	Kidney	1E-02	--	--	1E-02
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	8E-03	--	--	8E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	2E-02	--	--	2E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	5E-02	--	--	5E-02
			Chemical Total	8E-07	--	2E-07	--	1E-06		2E-01	--	3E-02	3E-01
			Radionuclide Total										
		Exposure Point Total						1E-06					3E-01
	Exposure Medium Total							1E-06					3E-01
Medium Total								1E-06					3E-01
Receptor Total								1E-06					3E-01

-- = Not Evaluated

N/A = Not Applicable

Total Risk Across All Media: 1E-06

Total Hazard Across All Media: 3E-01

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

TABLE 3-9.99.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

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	SC13											
			Arsenic	3E-06	--	7E-07	--	4E-06	Skin	3E-01	--	5E-02	3E-01
			Cadmium	N/A	--	N/A	--	N/A	Kidney	2E-02	--	2E-02	4E-02
			Copper	N/A	--	--	--	N/A	Kidney	2E-02	--	--	2E-02
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	7E-03	--	--	7E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	3E-02	--	--	3E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	1E-01	--	--	1E-01
			Zinc	N/A	--	--	--	N/A	Blood	1E-02	--	--	1E-02
			Chemical Total	3E-06	--	7E-07	--	4E-06		4E-01	--	7E-02	5E-01
			Radionuclide Total										
		Exposure Point Total						4E-06					5E-01
	Exposure Medium Total							4E-06					5E-01
Medium Total								4E-06					5E-01
Receptor Total								4E-06					5E-01

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 4E-06

Total Hazard Across All Media: 5E-01

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

TABLE 3-9.99.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

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	SC13											
			Arsenic	8E-07	--	2E-07	--	1E-06	Skin	1E-01	--	3E-02	2E-01
			Cadmium	N/A	--	N/A	--	N/A	Kidney	8E-03	--	1E-02	2E-02
			Copper	N/A	--	--	--	N/A	Kidney	7E-03	--	--	7E-03
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	3E-03	--	--	3E-03
			Mercury	N/A	--	--	--	N/A	Nervous System	1E-02	--	--	1E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	5E-02	--	--	5E-02
			Zinc	N/A	--	--	--	N/A	Blood	4E-03	--	--	4E-03
			Chemical Total	8E-07	--	2E-07	--	1E-06		2E-01	--	4E-02	2E-01
			Radionuclide Total										
		Exposure Point Total						1E-06					2E-01
	Exposure Medium Total							1E-06					2E-01
Medium Total								1E-06					2E-01
Receptor Total								1E-06					2E-01

-- = Not Evaluated

N/A = Not Applicable

Total Risk Across All Media: 1E-06

Total Hazard Across All Media: 2E-01

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

TABLE 3-9.100.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Receptor Population: Area Resident
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
Soil	Surface Soil	Station 07/DP											
			Arsenic	4E-05	--	4E-06	--	5E-05	Skin	8E-01	--	7E-02	9E-01
			Cadmium	N/A	--	N/A	--	N/A	Kidney	1E-03	--	1E-03	2E-03
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	3E-01	--	--	3E-01
			Copper	N/A	--	--	--	N/A	Kidney	2E-02	--	--	2E-02
			Manganese	N/A	--	--	--	N/A	Nervous System	3E-02	--	--	3E-02
			Mercury	N/A	--	--	--	N/A	Nervous System	5E-02	--	--	5E-02
			Thallium	N/A	--	--	--	N/A	Blood	1E-01	--	--	1E-01
			Vanadium	N/A	--	--	--	N/A	Kidney	2E-01	--	--	2E-01
			Zinc	N/A	--	--	--	N/A	Blood	3E-01	--	--	3E-01
			Chemical Total	4E-05	--	4E-06	--	5E-05		2E+00	--	7E-02	2E+00
			Radionuclide Total										
		Exposure Point Total						5E-05					2E+00
	Exposure Medium Total							5E-05					2E+00
Medium Total								5E-05					2E+00
Receptor Total								5E-05					2E+00

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 5E-05

Total Hazard Across All Media: 2E+00

Total Skin HI =	9E-01
Total Nervous System HI =	8E-02
Total Immune System HI =	N/A
Total Kidney HI =	2E-01
Total Blood HI =	5E-01
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	3E-01
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.100.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Receptor Population: Area Resident
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
Soil	Surface Soil	Station 07/DP											
			Arsenic	7E-06	--	1E-06	--	9E-06	Skin	4E-01	--	7E-02	5E-01
			Cadmium	N/A	--	N/A	--	N/A	Kidney	5E-04	--	1E-03	2E-03
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	1E-01	--	--	1E-01
			Copper	N/A	--	--	--	N/A	Kidney	9E-03	--	--	9E-03
			Manganese	N/A	--	--	--	N/A	Nervous System	1E-02	--	--	1E-02
			Mercury	N/A	--	--	--	N/A	Nervous System	3E-02	--	--	3E-02
			Thallium	N/A	--	--	--	N/A	Blood	6E-02	--	--	6E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	9E-02	--	--	9E-02
			Zinc	N/A	--	--	--	N/A	Blood	2E-01	--	--	2E-01
			Chemical Total	7E-06	--	1E-06	--	9E-06		9E-01	--	7E-02	1E+00
			Radionuclide Total										
		Exposure Point Total						9E-06					1E+00
	Exposure Medium Total							9E-06					1E+00
Medium Total								9E-06					1E+00
Receptor Total								9E-06					1E+00

-- = Not Evaluated

N/A = Not Applicable

Total Risk Across All Media: 9E-06

Total Hazard Across All Media: 1E+00

Total Skin HI =	5E-01
Total Nervous System HI =	4E-02
Total Immune System HI =	N/A
Total Kidney HI =	1E-01
Total Blood HI =	2E-01
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	1E-01
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.101.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Receptor Population: Area Resident
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
Soil	Surface Soil	Station KF											
			Arsenic	5E-05	--	4E-06	--	5E-05	Skin	8E-01	--	7E-02	9E-01
			Cadmium	N/A	--	N/A	--	N/A	Kidney	8E-03	--	9E-03	2E-02
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	2E-01	--	--	2E-01
			Copper	N/A	--	--	--	N/A	Kidney	2E-02	--	--	2E-02
			Manganese	N/A	--	--	--	N/A	Nervous System	6E-02	--	--	6E-02
			Mercury	N/A	--	--	--	N/A	Nervous System	4E-02	--	--	4E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	2E-01	--	--	2E-01
			Zinc	N/A	--	--	--	N/A	Blood	7E-03	--	--	7E-03
			Chemical Total	5E-05	--	4E-06	--	5E-05		1E+00	--	8E-02	1E+00
			Radionuclide Total										
		Exposure Point Total						5E-05					1E+00
	Exposure Medium Total							5E-05					1E+00
Medium Total								5E-05					1E+00
Receptor Total								5E-05					1E+00

-- = Not Evaluated

N/A = Not Applicable

Total Risk Across All Media: 5E-05

Total Hazard Across All Media: 1E+00

Total Skin HI =	9E-01
Total Nervous System HI =	1E-01
Total Immune System HI =	N/A
Total Kidney HI =	2E-01
Total Blood HI =	7E-03
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	2E-01
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.101.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Receptor Population: Area Resident
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
Soil	Surface Soil	Station KF											
			Arsenic	7E-06	--	1E-06	--	9E-06	Skin	4E-01	--	7E-02	5E-01
			Cadmium	N/A	--	N/A	--	N/A	Kidney	4E-03	--	9E-03	1E-02
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	1E-01	--	--	1E-01
			Copper	N/A	--	--	--	N/A	Kidney	1E-02	--	--	1E-02
			Manganese	N/A	--	--	--	N/A	Nervous System	3E-02	--	--	3E-02
			Mercury	N/A	--	--	--	N/A	Nervous System	2E-02	--	--	2E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	8E-02	--	--	8E-02
			Zinc	N/A	--	--	--	N/A	Blood	4E-03	--	--	4E-03
			Chemical Total	7E-06	--	1E-06	--	9E-06		7E-01	--	8E-02	8E-01
			Radionuclide Total										
		Exposure Point Total						9E-06					8E-01
	Exposure Medium Total							9E-06					8E-01
Medium Total								9E-06					8E-01
Receptor Total								9E-06					8E-01

-- = Not Evaluated

N/A = Not Applicable

Total Risk Across All Media: 9E-06

Total Hazard Across All Media: 8E-01

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

TABLE 3-9.102.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Receptor Population: Area Resident
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
Soil	Surface Soil	AJRW											
			Arsenic	7E-05	--	6E-06	--	7E-05	Skin	1E+00	--	1E-01	1E+00
			Chromium III	N/A	--	--	--	N/A	General Toxicity	2E-04	--	--	2E-04
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	3E-02	--	--	3E-02
			Mercury	N/A	--	--	--	N/A	Nervous System	4E-02	--	--	4E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	3E-01	--	--	3E-01
			Chemical Total	7E-05	--	6E-06	--	7E-05		2E+00	--	1E-01	2E+00
			Radionuclide Total										
		Exposure Point Total						7E-05					2E+00
	Exposure Medium Total							7E-05					2E+00
Medium Total								7E-05					2E+00
Receptor Total								7E-05					2E+00

-- = Not Evaluated

N/A = Not Applicable

Total Risk Across All Media: 7E-05

Total Hazard Across All Media: 2E+00

Total Skin HI =	1E+00
Total Nervous System HI =	6E-02
Total Immune System HI =	N/A
Total Kidney HI =	3E-01
Total Blood HI =	N/A
Total General Toxicity HI =	2E-04
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.102.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Receptor Population: Area Resident
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
Soil	Surface Soil	AJRW											
			Arsenic	1E-05	--	2E-06	--	1E-05	Skin	6E-01	--	1E-01	7E-01
			Chromium III	N/A	--	--	--	N/A	General Toxicity	1E-04	--	--	1E-04
			Lead										
			Manganese	N/A	--	--	--	N/A	Nervous System	1E-02	--	--	1E-02
			Mercury	N/A	--	--	--	N/A	Nervous System	2E-02	--	--	2E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	1E-01	--	--	1E-01
			Chemical Total	1E-05	--	2E-06	--	1E-05		8E-01	--	1E-01	9E-01
			Radionuclide Total										
		Exposure Point Total						1E-05					9E-01
	Exposure Medium Total							1E-05					9E-01
Medium Total								1E-05					9E-01
Receptor Total								1E-05					9E-01

-- = Not Evaluated

N/A = Not Applicable

Total Risk Across All Media: 1E-05

Total Hazard Across All Media: 9E-01

Total Skin HI =	7E-01
Total Nervous System HI =	3E-02
Total Immune System HI =	N/A
Total Kidney HI =	1E-01
Total Blood HI =	N/A
Total General Toxicity HI =	1E-04
Total Liver HI =	N/A
Total Gastrointestinal System HI =	N/A
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.103.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Receptor Population: Area Resident
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
Soil	Surface Soil	Station WS/WSS											
			Arsenic	1E-05	--	1E-06	--	1E-05	Skin	2E-01	--	2E-02	2E-01
			Cadmium	N/A	--	N/A	--	N/A	Kidney	2E-03	--	2E-03	4E-03
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	3E-02	--	--	3E-02
			Copper	N/A	--	--	--	N/A	Kidney	6E-03	--	--	6E-03
			Manganese	N/A	--	--	--	N/A	Nervous System	1E-02	--	--	1E-02
			Mercury	N/A	--	--	--	N/A	Nervous System	6E-03	--	--	6E-03
			Thallium	N/A	--	--	--	N/A	Blood	8E-02	--	--	8E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	1E-01	--	--	1E-01
			Zinc	N/A	--	--	--	N/A	Blood	1E-03	--	--	1E-03
			Chemical Total	1E-05	--	1E-06	--	1E-05		5E-01	--	2E-02	5E-01
			Radionuclide Total										
		Exposure Point Total						1E-05					5E-01
	Exposure Medium Total							1E-05					5E-01
Medium Total								1E-05					5E-01
Receptor Total								1E-05					5E-01

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 1E-05

Total Hazard Across All Media: 5E-01

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

TABLE 3-9.103.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Receptor Population: Area Resident
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
Soil	Surface Soil	Station WS/WSS											
			Arsenic	7E-06	--	3E-07	--	8E-06	Skin	2E-01	--	2E-02	2E-01
			Cadmium	N/A	--	N/A	--	N/A	Kidney	1E-03	--	1E-03	2E-03
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	3E-02	--	--	3E-02
			Copper	N/A	--	--	--	N/A	Kidney	5E-03	--	--	5E-03
			Manganese	N/A	--	--	--	N/A	Nervous System	1E-02	--	--	1E-02
			Mercury	N/A	--	--	--	N/A	Nervous System	6E-03	--	--	6E-03
			Thallium	N/A	--	--	--	N/A	Blood	8E-02	--	--	8E-02
			Vanadium	N/A	--	--	--	N/A	Kidney	1E-01	--	--	1E-01
			Zinc	N/A	--	--	--	N/A	Blood	1E-03	--	--	1E-03
			Chemical Total	7E-06	--	3E-07	--	8E-06		5E-01	--	2E-02	5E-01
			Radionuclide Total										
		Exposure Point Total						8E-06					5E-01
	Exposure Medium Total							8E-06					5E-01
Medium Total								8E-06					5E-01
Receptor Total								8E-06					5E-01

-- = Not Evaluated

N/A = Not Applicable

Total Risk Across All Media: 8E-06

Total Hazard Across All Media: 5E-01

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

TABLE 3-9.104.RME

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Receptor Population: Area Resident
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
Soil	Surface Soil	Station CB-05											
			Arsenic	6E-05	--	6E-06	--	7E-05	Skin	1E+00	--	9E-02	1E+00
			Cadmium	N/A	--	N/A	--	N/A	Kidney	4E-03	--	4E-03	8E-03
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	3E-01	--	--	3E-01
			Copper	N/A	--	--	--	N/A	Kidney	9E-03	--	--	9E-03
			Manganese	N/A	--	--	--	N/A	Nervous System	2E-02	--	--	2E-02
			Mercury	N/A	--	--	--	N/A	Nervous System	2E-02	--	--	2E-02
			Thallium	N/A	--	--	--	N/A	Blood	1E-01	--	--	1E-01
			Vanadium	N/A	--	--	--	N/A	Kidney	1E-01	--	--	1E-01
			Zinc	N/A	--	--	--	N/A	Blood	3E-03	--	--	3E-03
			Chemical Total	6E-05	--	6E-06	--	7E-05		2E+00	--	1E-01	2E+00
			Radionuclide Total										
		Exposure Point Total						7E-05					2E+00
	Exposure Medium Total							7E-05					2E+00
Medium Total								7E-05					2E+00
Receptor Total								7E-05					2E+00

-- = Not Evaluated
N/A = Not Applicable

Total Risk Across All Media: 7E-05

Total Hazard Across All Media: 2E+00

Total Skin HI =	1E+00
Total Nervous System HI =	3E-02
Total Immune System HI =	N/A
Total Kidney HI =	2E-01
Total Blood HI =	1E-01
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	3E-01
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-9.104.CT

SUMMARY OF RECEPTOR RISKS AND HAZARDS FOR COPCs

CENTRAL TENDENCY

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current/Future
Receptor Population: Area Resident
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
Soil	Surface Soil	Station CB-05											
			Arsenic	4E-05	--	2E-06	--	5E-05	Skin	1E+00	--	9E-02	1E+00
			Cadmium	N/A	--	N/A	--	N/A	Kidney	4E-03	--	4E-03	8E-03
			Chromium VI	N/A	--	--	--	N/A	Gastrointestinal System	3E-01	--	--	3E-01
			Copper	N/A	--	--	--	N/A	Kidney	9E-03	--	--	9E-03
			Manganese	N/A	--	--	--	N/A	Nervous System	2E-02	--	--	2E-02
			Mercury	N/A	--	--	--	N/A	Nervous System	2E-02	--	--	2E-02
			Thallium	N/A	--	--	--	N/A	Blood	1E-01	--	--	1E-01
			Vanadium	N/A	--	--	--	N/A	Kidney	1E-01	--	--	1E-01
			Zinc	N/A	--	--	--	N/A	Blood	3E-03	--	--	3E-03
			Chemical Total	4E-05	--	2E-06	--	5E-05		2E+00	--	1E-01	2E+00
			Radionuclide Total										
		Exposure Point Total						5E-05					2E+00
	Exposure Medium Total							5E-05					2E+00
Medium Total								5E-05					2E+00
Receptor Total								5E-05					2E+00

-- = Not Evaluated

N/A = Not Applicable

Total Risk Across All Media: 5E-05

Total Hazard Across All Media: 2E+00

Total Skin HI =	1E+00
Total Nervous System HI =	3E-02
Total Immune System HI =	N/A
Total Kidney HI =	2E-01
Total Blood HI =	1E-01
Total General Toxicity HI =	N/A
Total Liver HI =	N/A
Total Gastrointestinal System HI =	3E-01
Total Cardiovascular HI =	N/A
Total Developmental HI =	N/A

TABLE 3-10.1.RME
RISK SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	Sediment	Station WH	Arsenic						Skin	2E+00	- -	5E-01	2E+00
			Chemical Total	- -	- -	- -	- -	- -		2E+00	- -	5E-01	2E+00
			Radionuclide Total										
		Exposure Point Total						- -					2E+00
	Exposure Medium Total							- -					2E+00
Medium Total								- -					2E+00
Receptor Total								- -					2E+00

Total Risk Across All Media: - -

Total Hazard Across All Media: 2E+00

Total Skin HI = 2E+00

TABLE 3-10.2.RME
RISK SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Current
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	Sediment	Station CB-03	Arsenic						Skin	2E+00	- -	6E-01	3E+00
			Chemical Total	- -	- -	- -	- -	- -		2E+00	- -	6E-01	3E+00
			Radionuclide Total										
		Exposure Point Total						- -					3E+00
	Exposure Medium Total							- -					3E+00
Medium Total								- -					3E+00
Receptor Total								- -					3E+00

Total Risk Across All Media: - -

Total Hazard Across All Media: 3E+00

Total Skin HI = 3E+00

TABLE 3-10.3.RME
RISK SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	Sediment	Station 13/TT-27	Benzo(a)pyrene	2E-06	--	1E-06	--	3E-06					
			Arsenic	5E-04	--	2E-04	--	7E-04	Skin	9E+00	--	3E+00	1E+01
			Chemical Total	5E-04	--	2E-04	--	7E-04		9E+00	--	3E+00	1E+01
			Radionuclide Total										
		Exposure Point Total						7E-04					1E+01
	Exposure Medium Total							7E-04					1E+01
Medium Total								7E-04					1E+01
Receptor Total								7E-04					1E+01

Total Risk Across All Media: 7E-04

Total Hazard Across All Media: 1E+01

Total Skin HI = 1E+01

TABLE 3-10.3.CT
RISK SUMMARY
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	Sediment	Station 13/TT-27	Arsenic						Skin	1E+00	- -	1E+00	2E+00
			Chemical Total	- -	- -	- -	- -	- -		1E+00	- -	1E+00	2E+00
			Radionuclide Total										
		Exposure Point Total						- -					2E+00
	Exposure Medium Total							- -					2E+00
Medium Total								- -					2E+00
Receptor Total								- -					2E+00

Total Risk Across All Media: - -

Total Hazard Across All Media: 2E+00

Total Skin HI = 2E+00

TABLE 3-10.4.RME
RISK SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	Sediment	Station WH	Benzo(a)pyrene	1E-06	- -	1E-06	- -	2E-06					
			Arsenic	3E-04	- -	9E-05	- -	4E-04	Skin	5E+00	- -	2E+00	6E+00
			Chemical Total	3E-04	- -	1E-04	- -	4E-04		5E+00	- -	2E+00	6E+00
			Radionuclide Total										
		Exposure Point Total						4E-04					6E+00
	Exposure Medium Total							4E-04					6E+00
Medium Total								4E-04					6E+00
Receptor Total								4E-04					6E+00

Total Risk Across All Media: 4E-04

Total Hazard Across All Media: 6E+00

Total Skin HI = 6E+00

TABLE 3-10.5.RME
RISK SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	Sediment	Station NT-1	Benzo(a)pyrene	1E-06	- -	9E-07	- -	2E-06					
			Arsenic	3E-04	- -	1E-04	- -	5E-04	Skin	6E+00	- -	2E+00	8E+00
			Chemical Total	3E-04	- -	1E-04	- -	5E-04		6E+00	- -	2E+00	8E+00
			Radionuclide Total										
		Exposure Point Total						5E-04					8E+00
	Exposure Medium Total							5E-04					8E+00
Medium Total								5E-04					8E+00
Receptor Total								5E-04					8E+00

Total Risk Across All Media: 5E-04

Total Hazard Across All Media: 8E+00

Total Skin HI = 8E+00

TABLE 3-10.5.CT
RISK SUMMARY
CENTRAL TENDENCY
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	Sediment	Station NT-1	Arsenic						Skin	1E+00	- -	7E-01	2E+00
			Chemical Total	- -	- -	- -	- -	- -		1E+00	- -	7E-01	2E+00
			Radionuclide Total										
		Exposure Point Total						- -					2E+00
	Exposure Medium Total							- -					2E+00
Medium Total								- -					2E+00
Receptor Total								- -					2E+00

Total Risk Across All Media: - -

Total Hazard Across All Media: 2E+00

Total Skin HI = 2E+00

TABLE 3-10.6.RME
RISK SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	Sediment	Station NT-2	Benzo(a)pyrene	1E-06	- -	1E-06	- -	2E-06					
			Arsenic	2E-04	- -	9E-05	- -	3E-04	Skin	4E+00	- -	1E+00	6E+00
			Chemical Total	2E-04	- -	9E-05	- -	3E-04		4E+00	- -	1E+00	6E+00
			Radionuclide Total										
		Exposure Point Total						3E-04					6E+00
	Exposure Medium Total							3E-04					6E+00
Medium Total								3E-04					6E+00
Receptor Total								3E-04					6E+00

Total Risk Across All Media: 3E-04

Total Hazard Across All Media: 6E+00

Total Skin HI = 6E+00

TABLE 3-10.7.RME
RISK SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	Sediment	Station NT-3	Arsenic						Skin	1E+00	- -	4E-01	2E+00
			Chemical Total	- -	- -	- -	- -	- -		1E+00	- -	4E-01	2E+00
			Radionuclide Total										
		Exposure Point Total						- -					2E+00
	Exposure Medium Total							- -					2E+00
Medium Total								- -					2E+00
Receptor Total								- -					2E+00

Total Risk Across All Media: - -

Total Hazard Across All Media: 2E+00

Total Skin HI = 2E+00

TABLE 3-10.8.RME
RISK SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: 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	Sediment	Station CB-03	Arsenic						Skin	2E+00	- -	6E-01	3E+00
			Chemical Total	- -	- -	- -	- -	- -		2E+00	- -	6E-01	3E+00
			Radionuclide Total										
		Exposure Point Total						- -					3E+00
	Exposure Medium Total							- -					3E+00
Medium Total								- -					3E+00
Receptor Total								- -					3E+00

Total Risk Across All Media: - -

Total Hazard Across All Media: 3E+00

Total Skin HI = 3E+00

TABLE 3-10.9.RME
RISK SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Dredger
Receptor Age: 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	Sediment Cores	SC05	Arsenic						Skin	2E+00	- -	4E-01	2E+00
			Chemical Total	- -	- -	- -	- -	- -		2E+00	- -	4E-01	2E+00
			Radionuclide Total										
		Exposure Point Total						- -					2E+00
	Exposure Medium Total							- -					2E+00
Medium Total								- -					2E+00
Receptor Total								- -					2E+00

Total Risk Across All Media: - -

Total Hazard Across All Media: 2E+00

Total Skin HI = 2E+00

TABLE 3-10.10.RME
RISK SUMMARY
REASONABLE MAXIMUM EXPOSURE
WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Dredger
Receptor Age: 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	Sediment Cores	SC06	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

Total Risk Across All Media: - -

Total Hazard Across All Media: 4E+00

Total Skin HI = 4E+00

TABLE 3-10.11.RME

RISK SUMMARY

REASONABLE MAXIMUM EXPOSURE

WELLS G&H SUPERFUND SITE OU3

Scenario Timeframe: Future
Receptor Population: Dredger
Receptor Age: 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	Sediment Cores	SC08	Arsenic						Skin	3E+00	- -	5E-01	3E+00
			Chemical Total	- -	- -	- -	- -	- -		3E+00	- -	5E-01	3E+00
			Radionuclide Total										
		Exposure Point Total						- -					3E+00
	Exposure Medium Total							- -					3E+00
Medium Total								- -					3E+00
Receptor Total								- -					3E+00

Total Risk Across All Media: - -

Total Hazard Across All Media: 3E+00

Total Skin HI = 3E+00