

CALCULATION OF HAZARD INDICES AND RISK ESTIMATES

Former Lewis Chemical Corporation
0 & 12-24 Fairmount Court
Hyde Park, MA

RECEPTOR:	Future Resident
EXPOSURE POINT:	Hot Spot #2
EXPOSURE PATHWAY:	Dermal Contact with Soil

Cancer Effects							
Chemical of Potential Concern	CAS No.	Exposure Point Concentration (EPC) mg/kg	Cancer Exposure Factor (EF)	Dermal Relative Absorption Factor (RAF)	Lifetime Average Daily Dose (LADD) mg/kg-day	Dermal Cancer Slope Factor (CSF) (mg/kg-day) ⁻¹	Excess Lifetime Cancer Risk (ELCR)
Volatile Organic Compounds (VOCs)							
1,1,1-Trichloroethane	71-55-6	2.20E+01	4.10E-06	1.00E-01	9.01E-06	--	NC
1,1-Dichloroethene	75-35-4	3.33E+00	4.10E-06	1.00E-01	1.36E-06	--	NC
1,2,4-Trimethylbenzene	95-63-6	3.58E+00	4.10E-06	1.00E-02	1.46E-07	--	NC
1,2-Dichlorobenzene	95-50-1	1.22E+01	4.10E-06	1.00E-01	5.00E-06	--	NC
1,3,5-Trimethylbenzene	108-67-8	2.90E+00	4.10E-06	1.00E-02	1.19E-07	--	NC
1,4-Dichlorobenzene	106-46-7	1.20E+00	4.10E-06	1.00E-01	4.91E-07	2.40E-02	1.18E-08
4-Isopropyltoluene	99-87-6	2.88E+00	4.10E-06	1.00E-02	1.18E-07	--	NC
Chlorobenzene	108-90-7	2.30E-01	4.10E-06	1.00E-02	9.42E-09	--	NC
cis-1,2-Dichloroethene	156-59-2	2.35E+01	4.10E-06	1.00E-01	9.63E-06	--	NC
Ethylbenzene	100-41-4	7.00E+00	4.10E-06	2.00E-01	5.73E-06	--	NC
Isopropylbenzene	98-82-8	6.40E-01	4.10E-06	1.00E-02	2.62E-08	--	NC
Naphthalene	91-20-3	1.90E+00	4.10E-06	1.00E-01	7.78E-07	--	NC
n-Propylbenzene	103-65-1	2.70E+00	4.10E-06	1.00E-02	1.11E-07	--	NC
sec-Butylbenzene	135-98-8	6.30E-01	4.10E-06	1.00E-02	2.58E-08	--	NC
Tetrachloroethene	127-18-4	1.30E+01	4.10E-06	1.00E-01	5.32E-06	5.10E-02	2.72E-07
Toluene	108-88-3	5.88E+01	4.10E-06	1.20E-01	2.89E-05	--	NC
Trichloroethene	79-01-6	1.03E+01	4.10E-06	1.00E-01	4.20E-06	1.10E-02	4.62E-08
Vinyl Chloride	75-01-4	1.20E+00	4.10E-06	1.00E-01	4.91E-07	1.50E+00	7.37E-07
Xylenes (Total)	1330-20-7	2.07E+01	4.10E-06	1.20E-01	1.01E-05	--	NC
Polychlorinated Biphenyls (PCBs)							
Aroclor 1248	12672-29-6	2.44E-01	4.10E-06	1.60E-01	1.60E-07	2.00E+00	3.20E-07
Aroclor 1232	11141-16-5	--	4.10E-06	1.60E-01	NC	2.00E+00	NC
Inorganics							
Barium, Total	7440-39-3	3.09E+01	4.10E-06	5.00E-02	6.33E-06	--	NC
Chromium, Total	7440-47-3	1.36E+01	4.10E-06	9.00E-02	5.01E-06	--	NC
Mercury, Total	7439-97-6	1.50E-01	4.10E-06	5.00E-02	3.07E-08	--	NC
Silver, Total	7440-22-4	5.10E-01	4.10E-06	2.50E-01	5.22E-07	--	NC
CUMULATIVE ELCR							1.39E-06

Lifetime Average Daily Dose (LADD) = EPC * EF * RAF

Excess Lifetime Cancer Risk (ELCR_{copc}) = LADD * CSF

Cumulative ELCR = ΣELCR_{copc}

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Former Lewis Chemical Corporation
0 & 12-24 Fairmount Court
Hyde Park, MA

RECEPTOR:	Future Resident
EXPOSURE POINT:	Hot Spot #2
EXPOSURE PATHWAY:	Incidental Ingestion of Soil

Noncancer Effects							
Chemical of Potential Concern	CAS No.	Exposure Point Concentration (EPC) mg/kg	Noncancer Exposure Factor (EF)	Oral Relative Absorption Factor (RAF)	Average Daily Dose (ADD) mg/kg-day	Oral Reference Dose (RfD) mg/kg-day	Hazard Quotient (HQ)
<i>Volatile Organic Compounds (VOCs)</i>							
1,1,1-Trichloroethane	71-55-6	2.20E+01	6.34E-06	1.00E+00	1.39E-04	9.00E-02	1.55E-03
1,1-Dichloroethene	75-35-4	3.33E+00	6.34E-06	1.00E+00	2.11E-05	5.00E-02	4.21E-04
1,2,4-Trimethylbenzene	95-63-6	3.58E+00	6.34E-06	1.00E+00	2.27E-05	5.00E-02	4.53E-04
1,2-Dichlorobenzene	95-50-1	1.22E+01	6.34E-06	1.00E+00	7.73E-05	9.00E-02	8.59E-04
1,3,5-Trimethylbenzene	108-67-8	2.90E+00	6.34E-06	1.00E+00	1.84E-05	5.00E-02	3.68E-04
1,4-Dichlorobenzene	106-46-7	1.20E+00	6.34E-06	1.00E+00	7.61E-06	9.00E-02	8.45E-05
4-Isopropyltoluene	99-87-6	2.88E+00	6.34E-06	1.00E+00	1.82E-05	1.00E-01	1.82E-04
Chlorobenzene	108-90-7	2.30E-01	6.34E-06	1.00E+00	1.46E-06	2.00E-02	7.29E-05
cis-1,2-Dichloroethene	156-59-2	2.35E+01	6.34E-06	1.00E+00	1.49E-04	1.00E-02	1.49E-02
Ethylbenzene	100-41-4	7.00E+00	6.34E-06	1.00E+00	4.44E-05	1.00E-01	4.44E-04
Isopropylbenzene	98-82-8	6.40E-01	6.34E-06	1.00E+00	4.06E-06	1.00E-01	4.06E-05
Naphthalene	91-20-3	1.90E+00	6.34E-06	3.60E-01	4.34E-06	2.00E-02	2.17E-04
n-Propylbenzene	103-65-1	2.70E+00	6.34E-06	1.00E+00	1.71E-05	4.00E-02	4.28E-04
sec-Butylbenzene	135-98-8	6.30E-01	6.34E-06	1.00E+00	3.99E-06	4.00E-02	9.98E-05
Tetrachloroethene	127-18-4	1.30E+01	6.34E-06	1.00E+00	8.24E-05	1.00E-02	8.24E-03
Toluene	108-88-3	5.88E+01	6.34E-06	1.00E+00	3.72E-04	8.00E-02	4.65E-03
Trichloroethene	79-01-6	1.03E+01	6.34E-06	1.00E+00	6.50E-05	2.00E-03	3.25E-02
Vinyl Chloride	75-01-4	1.20E+00	6.34E-06	1.00E+00	7.61E-06	3.00E-03	2.54E-03
Xylenes (Total)	1330-20-7	2.07E+01	6.34E-06	1.00E+00	1.31E-04	2.00E-01	6.54E-04
<i>Polychlorinated Biphenyls (PCBs)</i>							
Aroclor 1248	12672-29-6	2.44E-01	6.34E-06	8.50E-01	1.32E-06	2.00E-05	6.58E-02
Aroclor 1232	11141-16-5	--	6.34E-06	8.50E-01	NC	2.00E-05	NC
<i>Inorganics</i>							
Barium, Total	7440-39-3	3.09E+01	6.34E-06	1.00E+00	1.96E-04	2.00E-01	9.79E-04
Chromium, Total	7440-47-3	1.36E+01	6.34E-06	1.00E+00	8.62E-05	3.00E-03	2.87E-02
Mercury, Total	7439-97-6	1.50E-01	6.34E-06	1.00E+00	9.51E-07	3.00E-04	3.17E-03
Silver, Total	7440-22-4	5.10E-01	6.34E-06	1.00E+00	3.23E-06	5.00E-03	6.46E-04
CUMULATIVE HAZARD INDEX							1.68E-01

Average Daily Dose (ADD) = EPC * EF * RAF

Hazard Quotient (HQ_{copc}) = ADD / RfD

Cumulative Hazard Index (HI) = Σ HQ_{copc}

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EXPOSURE POINT:	Hot Spot #2
EXPOSURE PATHWAY:	Incidental Ingestion of Soil

Cancer Effects							
Chemical of Potential Concern	CAS No.	Exposure Point Concentration (EPC) mg/kg	Cancer Exposure Factor (EF)	Oral Relative Absorption Factor (RAF)	Lifetime Average Daily Dose (LADD) mg/kg-day	Oral Cancer Slope Factor (CSF) (mg/kg-day) ⁻¹	Excess Lifetime Cancer Risk (ELCR)
Volatile Organic Compounds (VOCs)							
1,1,1-Trichloroethane	71-55-6	2.20E+01	5.01E-07	1.00E+00	1.10E-05	--	NC
1,1-Dichloroethene	75-35-4	3.33E+00	5.01E-07	1.00E+00	1.67E-06	--	NC
1,2,4-Trimethylbenzene	95-63-6	3.58E+00	5.01E-07	1.00E+00	1.79E-06	--	NC
1,2-Dichlorobenzene	95-50-1	1.22E+01	5.01E-07	1.00E+00	6.11E-06	--	NC
1,3,5-Trimethylbenzene	108-67-8	2.90E+00	5.01E-07	1.00E+00	1.45E-06	--	NC
1,4-Dichlorobenzene	106-46-7	1.20E+00	5.01E-07	1.00E+00	6.01E-07	2.40E-02	1.44E-08
4-Isopropyltoluene	99-87-6	2.88E+00	5.01E-07	1.00E+00	1.44E-06	--	NC
Chlorobenzene	108-90-7	2.30E-01	5.01E-07	1.00E+00	1.15E-07	--	NC
cis-1,2-Dichloroethene	156-59-2	2.35E+01	5.01E-07	1.00E+00	1.18E-05	--	NC
Ethylbenzene	100-41-4	7.00E+00	5.01E-07	1.00E+00	3.51E-06	--	NC
Isopropylbenzene	98-82-8	6.40E-01	5.01E-07	1.00E+00	3.21E-07	--	NC
Naphthalene	91-20-3	1.90E+00	5.01E-07	3.60E-01	3.43E-07	--	NC
n-Propylbenzene	103-65-1	2.70E+00	5.01E-07	1.00E+00	1.35E-06	--	NC
sec-Butylbenzene	135-98-8	6.30E-01	5.01E-07	1.00E+00	3.16E-07	--	NC
Tetrachloroethene	127-18-4	1.30E+01	5.01E-07	1.00E+00	6.52E-06	5.10E-02	3.32E-07
Toluene	108-88-3	5.88E+01	5.01E-07	1.00E+00	2.94E-05	--	NC
Trichloroethene	79-01-6	1.03E+01	5.01E-07	1.00E+00	5.14E-06	1.10E-02	5.65E-08
Vinyl Chloride	75-01-4	1.20E+00	5.01E-07	1.00E+00	6.01E-07	1.50E+00	9.02E-07
Xylenes (Total)	1330-20-7	2.07E+01	5.01E-07	1.00E+00	1.03E-05	--	NC
Polychlorinated Biphenyls (PCBs)							
Aroclor 1248	12672-29-6	2.44E-01	5.01E-07	8.50E-01	1.04E-07	2.00E+00	2.08E-07
Aroclor 1232	11141-16-5	--	5.01E-07	8.50E-01	NC	2.00E+00	NC
Inorganics							
Barium, Total	7440-39-3	3.09E+01	5.01E-07	1.00E+00	1.55E-05	--	NC
Chromium, Total	7440-47-3	1.36E+01	5.01E-07	1.00E+00	6.82E-06	--	NC
Mercury, Total	7439-97-6	1.50E-01	5.01E-07	1.00E+00	7.52E-08	--	NC
Silver, Total	7440-22-4	5.10E-01	5.01E-07	1.00E+00	2.56E-07	--	NC
CUMULATIVE ELCR							1.51E-06

Lifetime Average Daily Dose (LADD) = EPC * EF * RAF

Excess Lifetime Cancer Risk (ELCR_{corp}) = LADD * CSF

Cumulative ELCR = ΣELCR_{corp}

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Hyde Park, MA

RECEPTOR:	Future Resident
EXPOSURE POINT:	Hot Spot #2
EXPOSURE PATHWAY:	Inhalation of Fugitive Dust

Noncancer Effects						
Chemical of Potential Concern	CAS No.	Exposure Point Concentration (EPC) mg/m ³	Noncancer Exposure Factor (EF)	Average Daily Exposure (ADE) mg/m ³	Inhalation Reference Concentration (RfC) mg/m ³	Hazard Quotient (HQ)
Volatile Organic Compounds (VOCs)						
1,1,1-Trichloroethane	71-55-6	7.04E-07	3.49E-02	2.46E-08	5.20E+00	4.73E-09
1,1-Dichloroethene	75-35-4	1.06E-07	3.49E-02	3.72E-09	2.00E-01	1.86E-08
1,2,4-Trimethylbenzene	95-63-6	1.14E-07	3.49E-02	4.00E-09	6.00E-03	6.66E-07
1,2-Dichlorobenzene	95-50-1	3.90E-07	3.49E-02	1.36E-08	2.00E-01	6.82E-08
1,3,5-Trimethylbenzene	108-67-8	9.28E-08	3.49E-02	3.24E-09	6.00E-03	5.40E-07
1,4-Dichlorobenzene	106-46-7	3.84E-08	3.49E-02	1.34E-09	8.00E-01	1.68E-09
4-Isopropyltoluene	99-87-6	9.20E-08	3.49E-02	3.21E-09	4.00E-01	8.03E-09
Chlorobenzene	108-90-7	7.36E-09	3.49E-02	2.57E-10	2.00E-02	1.29E-08
cis-1,2-Dichloroethene	156-59-2	7.52E-07	3.49E-02	2.63E-08	3.50E-02	7.51E-07
Ethylbenzene	100-41-4	2.24E-07	3.49E-02	7.82E-09	1.00E+00	7.82E-09
Isopropylbenzene	98-82-8	2.05E-08	3.49E-02	7.15E-10	4.00E-01	1.79E-09
Naphthalene	91-20-3	6.08E-08	3.49E-02	2.12E-09	3.00E-03	7.08E-07
n-Propylbenzene	103-65-1	8.64E-08	3.49E-02	3.02E-09	1.40E-01	2.16E-08
sec-Butylbenzene	135-98-8	2.02E-08	3.49E-02	7.04E-10	1.40E-01	5.03E-09
Tetrachloroethene	127-18-4	4.16E-07	3.49E-02	1.45E-08	4.60E+00	3.16E-09
Toluene	108-88-3	1.88E-06	3.49E-02	6.57E-08	5.00E+00	1.31E-08
Trichloroethene	79-01-6	3.28E-07	3.49E-02	1.15E-08	1.80E-01	6.37E-08
Vinyl Chloride	75-01-4	3.84E-08	3.49E-02	1.34E-09	1.00E-01	1.34E-08
Xylenes (Total)	1330-20-7	6.61E-07	3.49E-02	2.31E-08	1.00E-01	2.31E-07
Polychlorinated Biphenyls (PCBs)						
Aroclor 1248	12672-29-6	7.82E-09	3.49E-02	2.73E-10	2.00E-05	1.37E-05
Aroclor 1232	11141-16-5	NC	3.49E-02	NC	2.00E-05	NC
Inorganics						
Barium, Total	7440-39-3	9.89E-07	3.49E-02	3.45E-08	5.00E-04	6.91E-05
Chromium, Total	7440-47-3	4.35E-07	3.49E-02	1.52E-08	1.00E-04	1.52E-04
Mercury, Total	7439-97-6	4.80E-09	3.49E-02	1.68E-10	3.00E-04	5.59E-07
Silver, Total	7440-22-4	1.63E-08	3.49E-02	5.70E-10	1.40E-04	4.07E-06
CUMULATIVE HAZARD INDEX						2.43E-04

Average Daily Dose (ADD) = EPC * EF
Hazard Quotient (HQ_{conc}) = ADE / RfC
Cumulative Hazard Index (HI) = Σ HQ_{conc}

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RECEPTOR:	Future Resident
EXPOSURE POINT:	Hot Spot #2
EXPOSURE PATHWAY:	Inhalation of Fugitive Dust

Cancer Effects						
Chemical of Potential Concern	CAS No.	Exposure Point Concentration (EPC) mg/m ³	Cancer Exposure Factor (EF)	Lifetime Average Daily Dose (LADE) mg/m ³	Inhalation Unit Risk (IUR) (mg/m ³) ⁻¹	Excess Lifetime Cancer Risk (ELCR)
<i>Volatile Organic Compounds (VOCs)</i>						
1,1,1-Trichloroethane	71-55-6	7.04E-07	1.50E-02	1.05E-08	--	NC
1,1-Dichloroethene	75-35-4	1.06E-07	1.50E-02	1.59E-09	--	NC
1,2,4-Trimethylbenzene	95-63-6	1.14E-07	1.50E-02	1.71E-09	--	NC
1,2-Dichlorobenzene	95-50-1	3.90E-07	1.50E-02	5.84E-09	--	NC
1,3,5-Trimethylbenzene	108-67-8	9.28E-08	1.50E-02	1.39E-09	--	NC
1,4-Dichlorobenzene	106-46-7	3.84E-08	1.50E-02	5.75E-10	6.86E-03	3.94E-12
4-Isopropyltoluene	99-87-6	9.20E-08	1.50E-02	1.38E-09	--	NC
Chlorobenzene	108-90-7	7.36E-09	1.50E-02	1.10E-10	--	NC
cis-1,2-Dichloroethene	156-59-2	7.52E-07	1.50E-02	1.13E-08	--	NC
Ethylbenzene	100-41-4	2.24E-07	1.50E-02	3.35E-09	--	NC
Isopropylbenzene	98-82-8	2.05E-08	1.50E-02	3.07E-10	--	NC
Naphthalene	91-20-3	6.08E-08	1.50E-02	9.10E-10	--	NC
n-Propylbenzene	103-65-1	8.64E-08	1.50E-02	1.29E-09	--	NC
sec-Butylbenzene	135-98-8	2.02E-08	1.50E-02	3.02E-10	--	NC
Tetrachloroethene	127-18-4	4.16E-07	1.50E-02	6.23E-09	5.52E-02	3.44E-10
Toluene	108-88-3	1.88E-06	1.50E-02	2.81E-08	--	NC
Trichloroethene	79-01-6	3.28E-07	1.50E-02	4.91E-09	1.70E-03	8.35E-12
Vinyl Chloride	75-01-4	3.84E-08	1.50E-02	5.75E-10	8.80E-03	5.06E-12
Xylenes (Total)	1330-20-7	6.61E-07	1.50E-02	9.89E-09	--	NC
<i>Polychlorinated Biphenyls (PCBs)</i>						
Aroclor 1248	12672-29-6	7.82E-09	1.50E-02	1.17E-10	1.00E-01	1.17E-11
Aroclor 1232	11141-16-5	NC	1.50E-02	NC	1.00E-01	NC
<i>Inorganics</i>						
Barium, Total	7440-39-3	9.89E-07	1.50E-02	1.48E-08	--	NC
Chromium, Total	7440-47-3	4.35E-07	1.50E-02	6.52E-09	1.20E+01	7.82E-08
Mercury, Total	7439-97-6	4.80E-09	1.50E-02	7.19E-11	--	NC
Silver, Total	7440-22-4	1.63E-08	1.50E-02	2.44E-10	--	NC
CUMULATIVE ELCR						7.86E-08

Lifetime Average Daily Dose (LADE) = EPC * EF
Excess Lifetime Cancer Risk (ELCR_{conc}) = LADE * CSF
Cumulative ELCR = ΣELCR_{conc}



ATTACHMENT 7: IEUBK MODEL OUTPUT

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Model Version: 1.0 Build 261
User Name: Woodard & Curran
Date: 6/19/2006
Site Name: Former Lewis Chemical Co.
Operable Unit: Site-wide Exposure Point
Run Mode: Site Risk Assessment
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Soil/Dust Data

Mean soil concentration for site-wide exposure point

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The time step used in this model run: 1 - Every 4 Hours (6 times a day).

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***** Air *****

Indoor Air Pb Concentration: 30.000 percent of outdoor.

Other Air Parameters:

Age	Time Outdoors (hours)	Ventilation Rate (m ³ /day)	Lung Absorption (%)	Outdoor Air Pb Conc (ug Pb/m ³)
.5-1	1.000	2.000	32.000	0.100
1-2	2.000	3.000	32.000	0.100
2-3	3.000	5.000	32.000	0.100
3-4	4.000	5.000	32.000	0.100
4-5	4.000	5.000	32.000	0.100
5-6	4.000	7.000	32.000	0.100
6-7	4.000	7.000	32.000	0.100

***** Diet *****

Age	Diet Intake(ug/day)
.5-1	5.530
1-2	5.780
2-3	6.490
3-4	6.240
4-5	6.010
5-6	6.340
6-7	7.000

***** Drinking Water *****

Water Consumption:

Age	Water (L/day)
.5-1	0.200
1-2	0.500
2-3	0.520
3-4	0.530
4-5	0.550
5-6	0.580
6-7	0.590

Drinking Water Concentration: 4.000 ug Pb/L

***** Soil & Dust *****

Multiple Source Analysis Used

Average multiple source concentration: 192.700 ug/g

Mass fraction of outdoor soil to indoor dust conversion factor: 0.700

Outdoor airborne lead to indoor household dust lead concentration: 100.000

Use alternate indoor dust Pb sources? No

Age	Soil (ug Pb/g)	House Dust (ug Pb/g)
.5-1	261.000	192.700
1-2	261.000	192.700
2-3	261.000	192.700
3-4	261.000	192.700
4-5	261.000	192.700
5-6	261.000	192.700
6-7	261.000	192.700

***** Alternate Intake *****

Age	Alternate (ug Pb/day)
.5-1	0.000
1-2	0.000
2-3	0.000
3-4	0.000
4-5	0.000
5-6	0.000
6-7	0.000

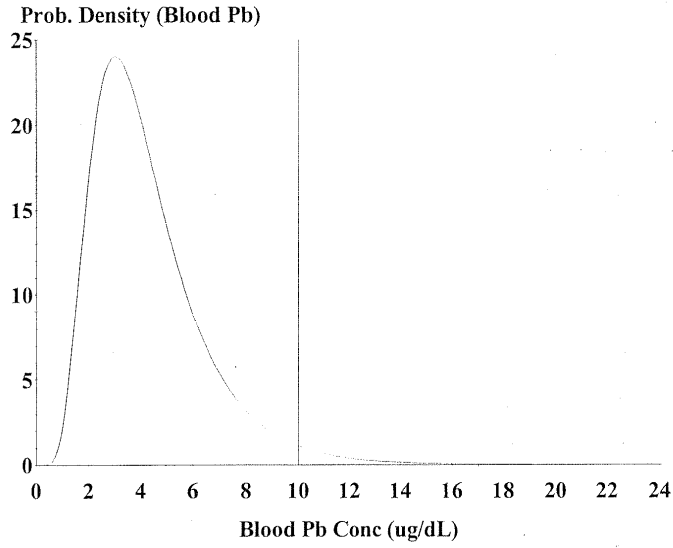
***** Maternal Contribution: Infant Model *****

Maternal Blood Concentration: 2.500 ug Pb/dL

 CALCULATED BLOOD LEAD AND LEAD UPTAKES:

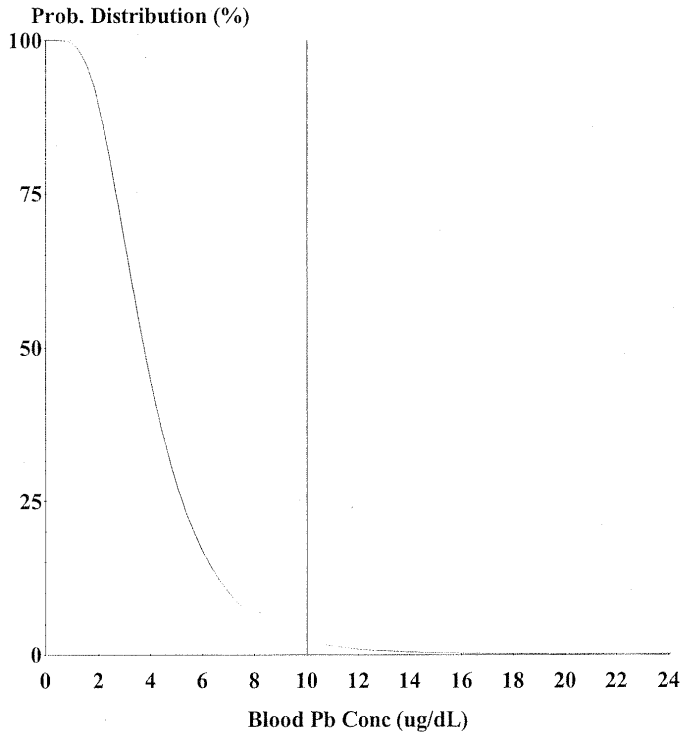
Year	Air (ug/day)	Diet (ug/day)	Alternate (ug/day)	Water (ug/day)
.5-1	0.021	2.520	0.000	0.365
1-2	0.034	2.607	0.000	0.902
2-3	0.062	2.962	0.000	0.949
3-4	0.067	2.885	0.000	0.980
4-5	0.067	2.841	0.000	1.040
5-6	0.093	3.021	0.000	1.106
6-7	0.093	3.348	0.000	1.129

Year	Soil+Dust (ug/day)	Total (ug/day)	Blood (ug/dL)
.5-1	5.194	8.100	4.4
1-2	8.162	11.705	4.9
2-3	8.260	12.233	4.5
3-4	8.369	12.301	4.3
4-5	6.337	10.285	3.6
5-6	5.750	9.970	3.1
6-7	5.451	10.021	2.9



Cutoff = 10.000 ug/dl
Geo Mean = 3.938
GSD = 1.600
% Above = 2.370
% Below = 97.630

Age Range = 0 to 84 months
Time Step = Every 4 Hours
Run Mode = Site Risk Assessment
Comment = Site wide exposure point



Cutoff = 10.000 ug/dl
Geo Mean = 3.938
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Age Range = 0 to 84 months
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