

APPENDIX E IEUBK Model Results for Lead in Air

LEAD MODEL FOR WINDOWS Version 1.0 Build 251

Model Version: 1.0 Build 251

User Name:

Date:

Site Name:

Operable Unit:

Run Mode: Research

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

***** Air *****

Indoor Air Pb Concentration: 100.000 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	0.000	2.000	32.000	1.000
1-2	0.000	3.000	32.000	1.000
2-3	0.000	5.000	32.000	1.000
3-4	0.000	5.000	32.000	1.000
4-5	0.000	5.000	32.000	1.000
5-6	0.000	7.000	32.000	1.000
6-7	0.000	7.000	32.000	1.000

***** 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: 240.000 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	200.000	240.000
1-2	200.000	240.000
2-3	200.000	240.000
3-4	200.000	240.000
4-5	200.000	240.000
5-6	200.000	240.000
6-7	200.000	240.000

***** 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/dL)	Diet (ug/day)	Alternate (ug/day)	Water (ug/day)
.5-1	0.640	2.521	0.000	0.365
1-2	0.960	2.608	0.000	0.902
2-3	1.600	2.963	0.000	0.950
3-4	1.600	2.886	0.000	0.981
4-5	1.600	2.842	0.000	1.040
5-6	2.240	3.022	0.000	1.106
6-7	2.240	3.349	0.000	1.129

Year	Soil+Dust (ug/day)	Total (ug/day)	Blood (ug/dL)
.5-1	5.162	8.688	4.7
1-2	8.113	12.583	5.2
2-3	8.210	13.723	5.0
3-4	8.318	13.785	4.8
4-5	6.298	11.780	4.1
5-6	5.714	12.081	3.7
6-7	5.417	12.135	3.5

