TABLE I.1.2.1–4.—*Summary of 1994 Concentration Averages for Metals in Soils*

AREA / SAMPLE NO.	ALUMINUM (mg/kg)		BORON[7] (mg/kg)		CADMIUM (mg/kg)		CHROMIUM[4] (mg/kg)		COBALT (mg/kg)		COPPER (mg/kg)		MAGNESIUM (mg/kg)		MANGANESE (mg/kg)		MOLY-BDENUM (mg/kg)	MERCURY (mg/kg)	NICKEL (mg/kg)		SILVER (mg/kg)	ZINC (mg/kg)	
"CLEANUP" LEVELS[2]																							
Surf Soil (0'-2')	not determined		not determined		1.59		27.8[5]		not determined		19.4		not determined		not determined		not determined	0.2	21.5		51.1	3070	
Subsurf Soil (2'-432')	not determined		not determined		4.0		69.0[5]		not determined		48.6		not determined		not determined		not determined	0.2	55.0		51.1	3070	
RBC LEVELS[3]																							
Industrial	1,000,000		180,000		not reported		not reported		120,000		not reported		not determined		10,000		10,000	not reported	not reported		not reported	not reported	
Residential	78,000		7,000		not reported		not reported		4,700		not reported		not determined		390		390	not reported	not reported		not reported	not reported	
BURNING GROUND																							
BG-SS-01	16,333	±3,300	NC[1]		NC[1]		21	±7.6	6.7	±0.7	14	±1.4	3,200	±350	330	±47	NC[1]	NC[1]	13	±1.9	NC[1]	52	±5.6
BG-SS-02	13,485	±4,200	NC[1]		0.7	±0.1	20	±8.7	7.1	±0.8	13	±2.8	2,800	±530	450	±54	NC[1]	NC[1]	13	±2.2	NC[1]	51	±11.0
BG-SS-04	15,116	±5,600	NC[1]		NC[1]		21	±9.1	7.3	±0.6	13	±1.4	2,800	±670	420	±31	NC[1]	NC[1]	14	±2.2	NC[1]	49	±12.0
BG-SS-05	16,350	±4,000	13	±7	0.7	±0.1	20	±7.2	7.5	±0.9	14	±1.7	3,000	±570	440	±45	NC[1]	NC[1]	13	±1.6	NC[1]	55	±8.7
BG-SS-06	13,842	±3,300	NC[1]		NC[1]		20	±6.6	7.7	±0.5	11	±1.3	2,300	±370	480	±48	NC[1]	NC[1]	13	±2.8	NC[1]	47	±6.9
BG-SS-07	15,342	±2,900	NC[1]		NC[1]		20	±5.0	7.8	±0.2	13	±5.2	2,500	±570	480	±48	NC[1]	NC[1]	14	±1.5	NC[1]	50	±4.3
BG-SS-08	14,850	±2,600	NC[1]		NC[1]		20	±5.8	7.5	±0.5	12	±0.9	2,500	±390	460	±40	NC[1]	NC[1]	13	±1.9	NC[1]	51	±3.6
BG-SS-09	15,283	±3,800	NC[1]		NC[1]		21	±7.6	7.4	±0.5	12	±0.8	2,600	±470	440	±37	NC[1]	NC[1]	14	±2.4	NC[1]	49	±5.4
BG-SS-10	17,700	±2,000	NC[1]		NC[1]		22	±5.3	7.6	±0.5	13	±0.4	3,000	±170	430	±33	NC[1]	NC[1]	15	±1.6	NC[1]	52	±4.6
BG-SS-11	15,316	±7,700	NC[1]		NC[1]		19	±7.7	7.9	±1.6	13	±3.4	2,800	±1,100	520	±150	NC[1]	NC[1]	13	±3.6	NC[1]	52	±14.0
PLAYA 3																							
P3-SS-01	19,250	±4,900	NC[1]		----[1]		22	±6.6	9.6	±3.0	18	±1.8	3,800	±620	640	±310	NC[1]	NC[1]	16	±2.4	NC[1]	73	±13.0
P3-SS-02	15,085	±5,000	NC[1]		0.8	±0.2	18	±8.6	6.5	±0.9	15	±2.4	2,700	±620	280	±120	NC[1]	NC[1]	12	±2.1	NC[1]	76	±18.0
OFFSITE (BUSHLAND)																							
OS-SS-32	19,000	±3,600	NC[1]		NC[1]		26	±6.1	7.2	±0.9	15	±1.5	3,800	±460	380	±120	NC[1]	NC[1]	14	±0.6	NC[1]	54	±4.4
PB-SS-01	21,000	±4,000	NC[1]		NC[1]		26	±7.2	7.1	±0.9	16	±5.9	4,000	±500	390	±190	NC[1]	NC[1]	14	±1.5	NC[1]	58	±9.2

[1]NC = mean was not calculated if fewer than four observations were above detection limits.
[2]"Cleanup" Levels are based on TNRCC Risk Reduction Standards (DOE 1994).
[3]EPA III - Risk Based Concentrations (RBCs): Soil Ingestion by Residential Standards (EPA 1995). RBCs were reported in the table only if "cleanup" levels were not determined for that parameter.
[4]Assume metal is Chromium III. Note: "Cleanup" levels for Hexavalent Chromium is 10 mg/kg for surface and subsurface soils. RBCs for Chromium IV is 10,000 mg/kg for Industrial levels and 390 mg/kg for Residential levels.
[5]"Cleanup" Levels for Chromium IV are 10 mg/kg for both surface and subsurface soils.
[6]RBC Levels for Chromium IV: Industrial is 10,000 mg/kg and Residential is 390 mg/kg.
[7]Boron, listed in summary table 12.7 in *1994 Environmental Report for Pantex Plant* (DOE 1995b) as a metal, is not a metal.
Note that shaded sample concentrations are above the Residential RBC levels (taking deviation values into account).
Sources: DOE 1995b:12-15 through 12-19; DOE 1994; EPA 1995