

**Table 1: Summary of Concrete Core Analytical Samples
828-foot Stack, Former ASARCO Smelter, El Paso, Texas**

Parameter	828 - Innerstack - 100ft	828 - Innerstack - 50ft	828 - InnerStack-10 ft	828-100 ft	828-50 ft	828-10 ft
Metals (EPA Methods 6010B/7471A)						
Antimony	2.84	3.54	8.37	1.57 J	2.28	1.73
Arsenic	277	226	143	5.73	14.2	3.05
Barium	134	123	137	67.5	79.7	294
Cadmium	3.60	1.44	3.53	0.735	1.14	0.375 J
Chromium	14.8	15.3	15.6	8.74	10.3	3.85
Cobalt	9.46	9.64	9.92	3.88	3.45	1.85
Copper	180	83.6	141	34.2	100	9.55
Iron	9210	7720	8240	4870	4720	2550
Lead	28.3	51.3	99	15.0	21.6	6.64
Mercury	0.271	0.327	0.503	0.327	0.373	0.826
Molybdenum	38.8	22.0	24.6	7.95	8.16	2.88
Nickel	6.14	4.73	5.41	3.16	3.53	2.35
Selenium	4.50	2.37	4.37	1.86	5.43	1.49
Silver	ND	ND	ND	ND	ND	ND
Zinc	375	379	464	121	131	45.7
Volatile Organic Compounds (EPA Method 8260B)						
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND
Ethyl ether	ND	ND	ND	ND	ND	ND
1,1 - Dichloroethene	ND	ND	ND	ND	ND	ND
Carbon disulfide	ND	ND	ND	ND	ND	ND
Iodomethane	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND
Acetone	0.0201 J	ND	0.00747 J	0.0306 J	ND	0.00804 J
trans-1,2-dichloroethene	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND	ND	ND
Acetonitrile	ND	ND	ND	ND	ND	ND
1, 1-Dichloroethane	ND	ND	ND	ND	ND	ND
Vinyl Acetate	ND	ND	ND	ND	ND	ND
cis-1, 2-Dichloroethene	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND
Ethyl acetate	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND
1,1-Dichloropropane	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND
Dibromomethane	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND
Methyl Methacrylate	ND	ND	ND	ND	ND	ND
1,4-Dioxane	ND	ND	ND	ND	ND	ND

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cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND
2-Nitropropane	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND
Ethyl methacrylate	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND
Chlorodibromomethane	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	ND	ND	ND	ND	ND	ND
Ethylene Dibromide	ND	ND	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	0.000540 J	0.000296 J	ND
Bromoform	ND	ND	ND	ND	ND	ND
Styrene	ND	ND	ND	0.000195 J	ND	ND
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropene	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ND	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	ND	ND	ND	ND
Xylenes, Total	ND	ND	ND	0.00325 J	0.00165 J	ND

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Semi Volatile Organic Compounds (EPA Method 8270C)						
Acenaphthene	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND
Benzo[a]anthracene	ND	ND	ND	ND	ND	ND
Benzo[a]pyrene	ND	ND	ND	ND	ND	ND
Benzo[b]fluoranthene	ND	ND	ND	ND	ND	ND
Benzo[g,h,i]perylene	ND	ND	ND	ND	ND	ND
Benzo[k]fluoranthene	ND	ND	ND	ND	ND	ND
Benzyl alcohol	ND	ND	ND	ND	ND	ND
Bis(2-chloroethoxy)methane	ND	ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl) phthalate	0.117 J	0.107 J	0.102 J	0.108 J	0.113 J	0.0933 J
4-Bromophenyl phenyl ether	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	ND	ND	ND	ND	ND	ND
4-Chloroaniline	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND	ND	ND	ND
2-Chlorophenol	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND	ND	ND	ND
Chrysene	ND	ND	ND	ND	0.0447 J	0.177 J
Dibenz(a,h)anthracene	ND	ND	ND	ND	ND	ND
Dibenzofuran	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND	ND	ND	ND
Diethyl phthalate	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	ND	ND	0.0713 J	0.0699 J	0.0721 J	0.0703 J
4,6-Dinitro-2-methylphenol	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND
Indeno[1,2,3-cd]pyrene	ND	ND	ND	ND	ND	ND
Isophorone	ND	ND	ND	ND	ND	0.383
2-Methylnaphthalene	ND	ND	ND	ND	ND	ND
2-Methylphenol	ND	ND	ND	ND	ND	ND
3 & 4 Methylphenol	ND	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	ND	ND
2-Nitroaniline	ND	ND	ND	ND	ND	ND
3-Nitroaniline	ND	ND	ND	ND	ND	ND

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4-Nitroaniline	ND	ND	ND	ND	ND	ND
Nitrobenzene	ND	ND	ND	ND	ND	ND
2-Nitrophenol	ND	ND	ND	ND	ND	ND
4-Nitrophenol	ND	ND	ND	ND	ND	ND
N-Nitrosodi-n-propylamine	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	ND	ND	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND	ND	ND
Phenanthrene	ND	ND	ND	ND	ND	ND
Phenol	ND	ND	ND	ND	ND	ND
Pyrene	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	ND	ND	ND	ND	ND	ND

Notes

all concentrations in milligrams per kilogram

J = Estimated value

ND = Analyte not detected above listed sample detection limit (SDL)

**Table 2: Summary of Concrete Core Analytical Samples
612-foot Stack, Former ASARCO Smelter, El Paso, Texas**

Parameter	100 ft - 612 Stack	50 ft - 612 Stack	10 ft - 612 Stack
Metals (EPA Methods 6010B/7471A)			
Antimony	3.11	2.99	3.64
Arsenic	7.29	11.8	16.2
Barium	61.2	86.4	60.4
Cadmium	0.827	2.18	4.75
Chromium	6.77	7.76	7.02
Cobalt	2.16	2.83	2.04
Copper	16.6	29.4	34.6
Iron	4530	5930	5430
Lead	24.6	56.9	74.4
Mercury	0.130	0.342	0.433
Molybdenum	4.19	4.64	3.20
Nickel	3.19	4.03	3.77
Selenium	0.859 J	1.12	1.46
Silver	ND	ND	ND
Zinc	89.7	157	161
Volatile Organic Compounds (EPA Method 8260B)			
Dichlorodifluoromethane	ND	ND	ND
Chloromethane	ND	ND	ND
Vinyl Chloride	ND	ND	ND
Bromomethane	ND	ND	ND
Chloroethane	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND
Ethyl ether	ND	ND	ND
1,1 - Dichloroethene	ND	ND	ND
Carbon disulfide	ND	ND	ND
Iodomethane	ND	ND	ND
Methylene Chloride	ND	ND	ND
Acetone	0.0108 J	ND	0.00890 J
trans-1,2-dichloroethene	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND
Acetonitrile	ND	ND	ND
1, 1-Dichloroethane	ND	ND	ND
Vinyl Acetate	ND	ND	ND
cis-1, 2-Dichloroethene	ND	ND	ND
2,2-Dichloropropane	ND	ND	ND
Chloroform	ND	ND	ND
Ethyl acetate	ND	ND	ND

Carbon tetrachloride	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND
1,1-Dichloropropane	ND	ND	ND
Benzene	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND
Trichloroethene	ND	ND	ND
Dibromomethane	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND
Methyl Methacrylate	ND	ND	ND
1,4-Dioxane	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND
Toluene	ND	ND	ND
2-Nitropropane	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND
Tetrachloroethene	ND	ND	ND
Ethyl methacrylate	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND
Chlorodibromomethane	ND	ND	ND
1,3-Dichloropropane	ND	ND	ND
Ethylene Dibromide	ND	ND	ND
2-Hexanone	ND	ND	ND
Chlorobenzene	ND	ND	ND
Ethylbenzene	ND	ND	ND
Bromoform	ND	ND	ND
Styrene	0.000236 J	0.00356 J	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND
1,2,3-Trichloropropene	ND	ND	ND
1,3,5-Trimethylbenzene	ND	ND	ND
1,2,4-Trimethylbenzene	ND	ND	ND
1,2,3-Trichlorobenzene	ND	ND	ND
2-Butanone (MEK)	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	ND
Xylenes, Total	ND	ND	ND

Semi Volatile Organic Compounds (EPA Method 8270C)			
Acenaphthene	ND	ND	ND
Acenaphthylene	ND	ND	ND
Anthracene	ND	ND	ND
Benzo[a]anthracene	0.371	0.316 J	0.0937 J
Benzo[a]pyrene	0.0186 J	0.0251 J	ND
Benzo[b]fluoranthene	0.113 J	0.157 J	0.0409 J
Benzo[g,h,i]perylene	ND	0.0277 J	ND
Benzo[k]fluoranthene	0.0219 J	0.0360 J	ND
Benzyl alcohol	ND	ND	ND
Bis(2-chloroethoxy)methane	ND	ND	ND
Bis(2-chloroethyl)ether	ND	ND	ND
Bis(2-ethylhexyl) phthalate	0.0961 J	0.101 J	0.130 J
4-Bromophenyl phenyl ether	ND	ND	ND
Butyl benzyl phthalate	ND	ND	ND
4-Chloroaniline	ND	ND	ND
4-Chloro-3-methylphenol	ND	ND	ND
2-Chloronaphthalene	ND	ND	ND
2-Chlorophenol	ND	ND	ND
4-Chlorophenyl phenyl ether	ND	ND	ND
Chrysene	0.687	0.680	0.242 J
Dibenz(a,h)anthracene	ND	0.0194 J	ND
Dibenzofuran	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND
3,3'-Dichlorobenzidine	ND	ND	ND
2,4-Dichlorophenol	ND	ND	ND
Diethyl phthalate	ND	ND	ND
2,4-Dimethylphenol	ND	ND	ND
Dimethyl phthalate	ND	ND	ND
Di-n-butyl phthalate	ND	ND	ND
4,6-Dinitro-2-methylphenol	ND	ND	ND
2,4-Dinitrophenol	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND
Di-n-octyl phthalate	ND	ND	ND
Fluoranthene	0.0566 J	0.0703 J	0.0227 J
Fluorene	ND	ND	ND
Hexachlorobenzene	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND
Hexachlorocyclopentadiene	ND	ND	ND
Hexachloroethane	ND	ND	ND

Indeno[1,2,3-cd]pyrene	ND	0.0185 J	ND
Isophorone	ND	ND	ND
2-Methylnaphthalene	ND	ND	ND
2-Methylphenol	ND	ND	ND
3 & 4 Methylphenol	ND	ND	ND
Naphthalene	ND	ND	ND
2-Nitroaniline	ND	ND	ND
3-Nitroaniline	ND	ND	ND
4-Nitroaniline	ND	ND	ND
Nitrobenzene	ND	ND	ND
2-Nitrophenol	ND	ND	ND
4-Nitrophenol	ND	ND	ND
N-Nitrosodi-n-propylamine	ND	ND	ND
N-Nitrosodiphenylamine	ND	ND	ND
Pentachlorophenol	ND	ND	ND
Phenanthrene	0.0550 J	0.0635 J	ND
Phenol	ND	ND	ND
Pyrene	0.115 J	0.0974 J	0.0341 J
1,2,4-Trichlorobenzene	ND	ND	ND
2,4,6-Trichlorophenol	ND	ND	ND
2,4,5-Trichlorophenol	ND	ND	ND

Notes

all concentrations in milligrams per kilogram

J = Estimated value

ND = Analyte not detected above listed sample detection limit (SDL)