Table 1. Soil Sampling Analyte List
Marshall Army Chemicals Plant

Analyte	CAS No.	Residential RBC[1] mg/kg	Industrial RBC[1] mg/kg	LOD Range mg/kg
VOLATILE ORGANIC COMPOUNDS				
1,1,1-TRICHLOROETHANE	71-55-6	640	3200	0.0053-5.9
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.38	9.0	0.0053-5.9
1,1,2-TRICHLOROETHANE	79-00-5	0.83	19	0.0053-5.9
1,1-DICHLOROETHANE	75-34-3	590	2100	0.0053-5.9
1,1-DICHLOROETHENE	75-35-4	0.053	1.2	0.0053-5.9
1,2,2-TRICHLOROTRIFLUOROETHANE	76-13-1	21000	69000	0.0053-5.9
1,2,4-TRICHLOROBENZENE	120-82-1	650	7600	0.0053-5.9
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	0.45	6.9	0.0053-5.9
1,2-DIBROMOETHANE	106-93-4	0.0069	0.48	0.0053-5.9
1,2-DICHLOROBENZENE	95-50-1	900	3300	0.0053-5.9
1,2-DICHLOROETHANE	107-06-2	0.34	7.7	0.0053-5.9
1,2-DICHLOROPROPANE	78-87-5	0.35	7.7	0.0053-5.9
1,3-DICHLOROBENZENE	541-73-1	13	52	0.0053-5.9
1,4-DICHLOROBENZENE	106-46-7	3.4	81	0.0053-5.9
2-BUTANONE	78-93-3	7300	28000	0.011-5.9
2-HEXANONE	591-78-6	NE	NE	0.011-5.9
4-METHYL-2-PENTANONE	108-10-1	790	2900	0.011-5.9
ACETONE	67-64-1	160	6200	0.011-5.9
BENZENE	71-43-2	0.65	15	0.0053-5.9
BROMODICHLOROMETHANE	75-27-4	1.0	24	0.0053-5.9
BROMOFORM	75-25-2	62	3100	0.0053-5.9
BROMOMETHANE	74-83-9	3.9	13	0.0053-5.9
CARBON DISULFIDE	75-15-0	360	1200	0.0053-5.9
CARBON TETRACHLORIDE	56-23-5	0.24	5.3	0.0053-5.9
CHLOROBENZENE	108-90-7	150	540	0.0053-5.9
CHLOROETHANE	75-00-3	3	65	0.0053-5.9
CHLOROFORM	67-66-3	0.24	1.3	0.0053-5.9
CHLOROMETHANE	74-87-3	1.2	27	0.0053-5.9
CIS-1,2-DICHLOROETHENE	156-59-2	43	150	0.0053-5.9
CIS-1,3-DICHLOROPROPENE	10061-01-5	NE	NE	0.0053-5.9
CYCLOHEXANE	110-82-7	NE	NE	0.0053-5.9
DIBROMOCHLOROMETHANE	124-48-1	1.1	27	0.0053-5.9
DICHLORODIFLUOROMETHANE	75-71-8	94	310	0.0053-5.9
ETHYLBENZENE	100-41-4	1500	6000	0.0053-5.9
ISOPROPYLBENZENE	98-82-8	160	520	0.0053-5.9
METHYL ACETATE	79-20-9	NE	NE	0.0053-5.9

Table 1. Soil Sampling Analyte List
Marshall Army Chemicals Plant

Analyte	CAS No.	Residential RBC[1] mg/kg	Industrial RBC[1] mg/kg	LOD Range mg/kg
METHYL T-BUTYL ETHER	1634-04-4	NE	NE	0.0053-5.9
METHYLCYCLOHEXANE	108-87-2	NE	NE	0.0053-5.9
METHYLENE CHLORIDE	75-09-2	8.8	210	0.0053-5.9
STYRENE	100-42-5	4600	20000	0.0053-5.9
TETRACHLOROETHENE	127-18-4	5.7	190	0.0053-24
TOLUENE	108-88-3	590	2000	0.0053-5.9
TRANS-1,2-DICHLOROETHENE	156-60-5	63	210	0.0053-5.9
TRANS-1,3-DICHLOROPROPENE	10061-02-6	NE	NE	0.0053-5.9
TRICHLOROETHENE	79-01-6	2.7	61	0.0053-5.9
TRICHLOROFLUOROMETHANE	75-69-4	390	1300	0.0053-5.9
VINYL CHLORIDE[2]	75-01-4	0.15	8.3	0.0053-5.9
XYLENES (TOTAL)	1330-20-7	1400	4500	0.011-5.9
SEMIVOLATILE ORGANIC COMPOUNDS				
1,2,4,5-TETRACHLOROBENZENE	95-94-3	18	260	0.33-0.74
2,4,5-TRICHLOROPHENOL	95-95-4	6100	88000	0.35-0.74
2,4,6-TRICHLOROPHENOL	88-06-2	44	2200	0.35-0.74
2,4-DICHLOROPHENOL	120-83-2	180	2600	0.35-0.74
2,4-DIMETHYLPHENOL	105-67-9	1200	18000	0.35-0.74
2,4-DINITROPHENOL	51-28-5	120	1800	1.8-3.8
2,4-DINITROTOLUENE	121-14-2	120	1800	1.7-3.8
2,6-DINITROTOLUENE	606-20-2	61	880	0.35-0.74
2-CHLORONAPHTHALENE	91-58-7	3900	27000	0.35-0.74
2-CHLOROPHENOL	95-57-8	64	240	0.35-0.74
2-METHYLNAPHTHALENE	91-57-6	NE	NE	0.35-40
2-METHYLPHENOL	95-48-7	3100	44000	0.35-0.74
2-NITROANILINE	88-74-4	3.5	50	1.8-3.8
2-NITROPHENOL	88-75-5	NE	NE	0.67-1.5
3- & 4-METHYLPHENOL[2]		310	4400	0.67-1.5
3,3-DICHLOROBENZIDINE	91-94-1	1.1	55	1.7-3.8
3-NITROANILINE	99-09-2	NE	NE	1.8-3.8
4,6-DINITRO-2-METHYLPHENOL	534-52-1	NE	NE	1.8-3.7
4-BROMOPHENYL PHENYL ETHER	101-55-3	NE	NE	0.35-0.74
4-CHLORO-3-METHYLPHENOL	59-50-7	NE	NE	0.35-0.74
4-CHLOROANILINE	106-47-8	240	3500	0.67-1.5
4-CHLORODIPHENYLETHER	7005-72-3	NE	NE	0.35-0.74
4-NITROANILINE	100-01-6	NE	NE	1.8-3.8
4-NITROPHENOL	100-02-7	490	7000	1.8-3.8

Table 1. Soil Sampling Analyte List
Marshall Army Chemicals Plant

Analyte	CAS No.	Residential RBC[1] mg/kg	Industrial RBC[1] mg/kg	LOD Range mg/kg
ACENAPHTHYLENE	208-96-8	NE	NE	0.35-0.74
ACETOPHENONE	98-86-2	0.50	1.6	0.33-0.74
ATRAZINE	1912-24-9	NE	NE	0.36-0.62
BENZALDEHYDE	100-52-7	NE	NE	0.36-0.62
BIPHENYL	92-52-4	NE	NE	0.36-4
BIS(2-CHLOROETHOXY) METHANE	111-91-1	NE	NE	0.35-0.74
BIS(2-CHLOROETHYL)ETHER	111-44-4	0.21	6.2	0.35-0.74
BIS(2-CHLOROISOPROPYL)ETHER	108-60-1	2.9	81	0.35-0.74
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	35	1800	0.35-0.74
BUTYL BENZYL PHTHALATE	85-68-7	12000	180000	0.67-1.5
CAPROLACTAM	105-60-2	NE	NE	0.36-0.62
CARBAZOLE	86-74-8	24	1200	0.35-40
DIBENZOFURAN	132-64-9	290	5100	0.35-40
DIETHYLPHTHALATE	84-66-2	49000	700000	0.35-0.74
DIMETHYLPHTHALATE	131-11-3	610000	1000000	0.35-0.74
DI-N-BUTYLPHTHALATE	84-74-2	NE	NE	0.35-0.74
DI-N-OCTYLPHTHALATE	117-84-0	1200	18000	0.35-0.74
HEXACHLOROBENZENE	118-74-1	0.30	15	0.35-61
HEXACHLOROBUTADIENE	87-68-3	6.2	260	0.71-130
HEXACHLOROCYCLOPENTADIENE	77-47-4	420	5900	0.35-0.74
HEXACHLOROETHANE	67-72-1	35	880	0.35-6.6
ISOPHORONE	78-59-1	510	26000	0.35-0.74
NITROBENZENE	98-95-3	20	110	0.35-0.74
N-NITROSODI-N-PROPYLAMINE	621-64-7	0.069	3.5	0.71-1.5
N-NITROSODIPHENYLAMINE	86-30-6	99	5000	0.35-0.74
PENTACHLOROPHENOL	87-86-5	3.0	110	1.8-3.8
PHENANTHRENE	85-01-8	NE	NE	0.35-400
PHENOL	108-95-2	37000	530000	0.35-4
POLYNUCLEAR AROMATIC HYDROCARBONS				
ACENAPHTHENE	83-32-9	3700	38000	0.35-40
ANTHRACENE	120-12-7	22000	390000	0.35-40
BENZO(A)ANTHRACENE	56-55-3	0.62	29	0.35-40
BENZO(A)PYRENE	50-32-8	0.062	2.9	0.35-40
BENZO(B)FLUORANTHENE	205-99-2	0.62	29	0.35-40
BENZO(G,H,I)PERYLENE	191-24-2	6.2	290	0.35-40
BENZO(K)FLUORANTHENE	207-08-9	6.2	290	0.35-40
CHRYSENE	218-01-9	62	2900	0.35-40

Table 1. Soil Sampling Analyte List
Marshall Army Chemicals Plant

Analyte	CAS No.	Residential RBC[1] mg/kg	Industrial RBC[1] mg/kg	LOD Range mg/kg
DIBENZO(A,H)ANTHRACENE	53-70-3	0.062	2.9	0.67-4
FLUORANTHENE	206-44-0	2300	30000	0.35-4.5
FLUORENE	86-73-7	2600	33000	0.35-40
INDENO(1,2,3-CD)PYRENE	193-39-5	0.62	29	0.67-40
NAPHTHALENE	91-20-3	56	190	0.35-0.74
PYRENE	129-00-0	2300	54000	0.35-400
PESTICIDES				
4,4-DDD	72-54-8	2.4	170	0.01-9.1
4,4-DDE	72-55-9	1.7	120	0.01-9.1
4,4-DDT	50-29-3	1.7	120	0.01-9.1
ALDRIN	309-00-2	0.029	1.5	0.005-4.6
ALPHA-BHC	319-84-6	0.09	5.9	0.005-4.6
ALPHA-CHLORDANE	5103-71-9	NE	NE	0.005-4.6
BETA-BHC	319-85-7	0.32	21	0.005-4.6
DELTA-BHC	319-86-8	NE	NE	0.005-4.6
DIELDRIN	60-57-1	0.030	1.5	0.01-9.1
ENDOSULFAN I	959-98-8	NE	NE	0.01-9.1
ENDOSULFAN II	33213-65-9	NE	NE	0.01-9.1
ENDOSULFAN SULFATE	1031-07-8	NE	NE	0.01-9.1
ENDRIN	72-20-8	18	260	0.01-9.1
ENDRIN ALDEHYDE	7421-93-4	NE	NE	0.01-9.1
ENDRIN KETONE	53494-70-5	NE	NE	0.01-9.1
GAMMA-BHC (LINDANE)	58-89-9	0.44	29	0.005-4.6
GAMMA-CHLORDANE	5103-74-2	NE	NE	0.005-4.6
HEPTACHLOR	76-44-8	0.11	5.5	0.005-4.6
HEPTACHLOR EPOXIDE	1024-57-3	0.053	2.7	0.005-4.6
METHOXYCHLOR	72-43-5	310	4400	0.05-46
TOXAPHENE	8001-35-2	0.44	22	0.17-76
POLYCHLORINATED BIPHENYLS				
AROCLOR-1016	12674-11-2	3.9	50	0.033-37
AROCLOR-1221	11104-28-2	0.22	10	0.033-37
AROCLOR-1232	11141-16-5	0.22	10	0.033-37
AROCLOR-1242	53469-21-9	0.22	10	0.033-37
AROCLOR-1248	12672-29-6	0.22	10	0.033-37
AROCLOR-1254	11097-69-1	0.22	10	0.033-37
AROCLOR-1260	11096-82-5	0.22	10	0.033-37

Table 1. Soil Sampling Analyte List
Marshall Army Chemicals Plant

Analyte	CAS No.	Residential RBC[1] mg/kg	Industrial RBC[1] mg/kg	LOD Range mg/kg
METALS				
ALUMINUM	7429-90-5	76000	1000000	15-180
ANTIMONY	7440-36-0	31	820	1.5-3.4
ARSENIC	7440-38-2	0.39	27	0.75-1.7
BARIUM	7440-39-3	5400	13000	0.15-1.9
BERYLLIUM	7440-41-7	154	3700	0.15-0.34
CADMIUM	7440-43-9	37	810	0.15-0.34
CALCIUM	7440-70-2	NE	NE	7.5-17
CHROMIUM[2]	7440-47-3	30	660	0.75-1.7
COBALT	7440-48-4	4700	12000	0.75-1.7
COPPER	7440-50-8	2900	76000	0.75-1.7
CYANIDE	NL	11	35	0.11-0.23
IRON	7439-89-6	23000	610000	7.5-96
LEAD[2]	7439-92-1	400	1000	0.75-1.7
MAGNESIUM	7439-95-4	NE	NE	7.5-17
MANGANESE	7439-96-5	1800	33000	1.5-3.4
MERCURY, TOTAL[2]	7439-97-6	23	610	0.11-2.0
NICKEL	7440-02-0	1600	41000	0.75-1.7
POTASSIUM	7440-09-7	NE	NE	150-340
SELENIUM	7782-49-2	390	10000	0.75-1.7
SILVER	7440-22-4	390	10000	0.75-1.7
SODIUM	7440-23-5	NE	NE	150-340
THALLIUM	7440-28-0	5.2	130	1.5-3.4
VANADIUM	7440-62-2	550	14000	0.75-1.7
ZINC	7440-66-6	23000	610000	3.0-6.7

Notes:

CAS No. = Chemical Abstract Service number
NL = CAS No. Not Listed in laboratory analytical results.
RBC = Risk-based concentration
NE = Not Established
mg/kg = milligrams per kilogram
1 = Risk-based concentrations obtained from West Virginia Voluntary Remediation and Redevelopment Act (WV VRRA) De Minimis Standard, revised 2002.
2 = This assessment uses the following reference standards for soil RBCs: Vinyl Chloride (lifetime) for the RRBC and Vinyl Chloride (adult) for the IRBC; 4-Methylphenol for 3- & 4-Methylphenol; Chromium VI for Chromium; Mercury & compounds for Mercury; and, Lead (*) for Lead.

Table 2. Groundwater Sampling Analyte List
Marshall Army Chemicals Plant

Analyte	CAS No.	GW-RBC	LOD Range	Units
VOLATILE ORGANIC COMPOUNDS				
1,1,1-TRICHLOROETHANE	71-55-6	0.54	0.0005-0.05	mg/L
1,1,2,2-TETRACHLOROETHANE	79-34-5	0.000055	0.0005-0.05	mg/L
1,1,2-TRICHLOROETHANE	79-00-5	0.005	0.0005-0.05	mg/L
1,1-DICHLOROETHANE	75-34-3	0.81	0.0005-0.05	mg/L
1,1-DICHLOROETHENE	75-35-4	0.007	0.0005-0.05	mg/L
1,2,2-TRICHLOROTRIFLUOROETHANE	76-13-1	59	0.0005-0.05	mg/L
1,2,4-TRICHLOROBENZENE	120-82-1	0.19	0.0005-0.05	mg/L
1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	0.0002	0.0005-0.05	mg/L
1,2-DIBROMOETHANE	106-93-4	0.00005	0.0005-0.05	mg/L
1,2-DICHLOROBENZENE	95-50-1	0.60	0.0005-0.25	mg/L
1,2-DICHLOROETHANE	107-06-2	0.005	0.0005-0.05	mg/L
1,2-DICHLOROPROPANE	78-87-5	0.005	0.0005-0.05	mg/L
1,3-DICHLOROBENZENE	541-73-1	0.60	0.0005-0.05	mg/L
1,4-DICHLOROBENZENE	106-46-7	0.07	0.0005-0.25	mg/L
2-BUTANONE	78-93-3	1.9	0.001-0.05	mg/L
2-HEXANONE	591-78-6	NE	0.001-0.05	mg/L
4-METHYL-2-PENTANONE	108-10-1	0.16	0.001-0.05	mg/L
ACETONE	67-64-1	0.61	0.005-0.05	mg/L
BENZENE	71-43-2	0.005	0.0005-0.05	mg/L
BROMODICHLOROMETHANE	75-27-4	0.00018	0.0005-0.05	mg/L
BROMOFORM	75-25-2	0.0084	0.0005-0.05	mg/L
BROMOMETHANE	74-83-9	0.0087	0.0005-0.05	mg/L
CARBON DISULFIDE	75-15-0	1.0	0.0005-0.05	mg/L
CARBON TETRACHLORIDE	56-23-5	0.005	0.0005-0.05	mg/L
CHLOROBENZENE	108-90-7	0.11	0.0005-0.05	mg/L
CHLOROETHANE	75-00-3	0.0038	0.0005-0.05	mg/L
CHLOROFORM	67-66-3	0.00016	0.0005-0.05	mg/L
CHLOROMETHANE	74-87-3	0.0015	0.0005-0.05	mg/L
CIS-1,2-DICHLOROETHENE	156-59-2	0.07	0.0005-0.05	mg/L
CIS-1,3-DICHLOROPROPENE	10061-01-5	NE	0.0005-0.05	mg/L
CYCLOHEXANE	110-82-7	35	0.0005-0.05	mg/L
DIBROMOCHLOROMETHANE	124-48-1	0.00013	0.0005-0.05	mg/L
DICHLORODIFLUOROMETHANE	75-71-8	0.39	0.0005-0.05	mg/L
ETHYLBENZENE	100-41-4	1.3	0.0005-0.05	mg/L
ISOPROPYLBENZENE	98-82-8	0.66	0.0005-0.05	mg/L
METHYL ACETATE	79-20-9	6.1	0.0005-0.05	mg/L
METHYL T-BUTYL ETHER	1634-04-4	NE	0.0005-0.05	mg/L

Table 2. Groundwater Sampling Analyte List
Marshall Army Chemicals Plant

Analyte	CAS No.	GW-RBC	LOD Range	Units
METHYLCYCLOHEXANE	108-87-2	5.2	0.0005-0.05	mg/L
METHYLENE CHLORIDE	75-09-2	0.005	0.0005-0.05	mg/L
STYRENE	100-42-5	1.6	0.0005-0.05	mg/L
TETRACHLOROETHENE	127-18-4	0.005	0.0005-0.5	mg/L
TOLUENE	108-88-3	1.0	0.0005-0.05	mg/L
TRANS-1,2-DICHLOROETHENE	156-60-5	0.12	0.0005-0.05	mg/L
TRANS-1,3-DICHLOROPROPENE	10061-02-6	NE	0.0005-0.05	mg/L
TRICHLOROETHENE	79-01-6	0.005	0.0005-0.05	mg/L
TRICHLOROFLUOROMETHANE	75-69-4	1.3	0.0005-0.05	mg/L
VINYL CHLORIDE	75-01-4	0.002	0.0005-0.05	mg/L
XYLENES (TOTAL)	1330-20-7	10	0.001-0.05	mg/L
SEMIVOLATILE ORGANIC COMPOUNDS				
1,2,4,5-TETRACHLOROBENZENE	95-94-3	0.011	0.01	mg/L
2,4,5-TRICHLOROPHENOL	95-95-4	3.7	0.01	mg/L
2,4,6-TRICHLOROPHENOL	88-06-2	0.0060	0.01	mg/L
2,4-DICHLOROPHENOL	120-83-2	0.11	0.01	mg/L
2,4-DIMETHYLPHENOL	105-67-9	0.73	0.01	mg/L
2,4-DINITROPHENOL	51-28-5	0.073	0.05	mg/L
2,4-DINITROTOLUENE	121-14-2	0.073	0.01	mg/L
2,6-DINITROTOLUENE	606-20-2	0.037	0.01	mg/L
2-CHLORONAPHTHALENE	91-58-7	0.49	0.01	mg/L
2-CHLOROPHENOL	95-57-8	0.030	0.01	mg/L
2-METHYLNAPHTHALENE	91-57-6	NE	0.01	mg/L
2-METHYLPHENOL	95-48-7	1.8	0.01	mg/L
2-NITROANILINE	88-74-4	0.0021	0.05	mg/L
2-NITROPHENOL	88-75-5	NE	0.01	mg/L
3- & 4-METHYLPHENOL		0.81	0.01	mg/L
3,3-DICHLOROBENZIDINE	91-94-1	0.00015	0.02	mg/L
3-NITROANILINE	99-09-2	NE	0.05	mg/L
4,6-DINITRO-2-METHYLPHENOL	534-52-1	NE	0.05	mg/L
4-BROMOPHENYL PHENYL ETHER	101-55-3	NE	0.01	mg/L
4-CHLORO-3-METHYLPHENOL	59-50-7	NE	0.02	mg/L
4-CHLOROANILINE	106-47-8	0.15	0.01	mg/L
4-CHLORODIPHENYLETHER	7005-72-3	NE	0.01	mg/L
4-NITROANILINE	100-01-6	NE	0.05	mg/L
4-NITROPHENOL	100-02-7	0.29	0.05	mg/L
ACENAPHTHYLENE	208-96-8	NE	0.01	mg/L
ACETOPHENONE	98-86-2	0.000042	0.01	mg/L

Table 2. Groundwater Sampling Analyte List
Marshall Army Chemicals Plant

Analyte	CAS No.	GW-RBC	LOD Range	Units
ATRAZINE	1912-24-9	0.003	0.01	mg/L
BENZALDEHYDE	100-52-7	3.7	0.01	mg/L
BIPHENYL	92-52-4	0.03	0.01	mg/L
BIS(2-CHLOROETHOXY) METHANE	111-91-1	NE	0.01	mg/L
BIS(2-CHLOROETHYL)ETHER	111-44-4	0.000010	0.01	mg/L
BIS(2-CHLOROISOPROPYL)ETHER	108-60-1	0.00027	0.01	mg/L
BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	0.006	0.01	mg/L
BUTYL BENZYL PHTHALATE	85-68-7	7.3	0.01	mg/L
CAPROLACTAM	105-60-2	18	0.01	mg/L
CARBAZOLE	86-74-8	0.0033	0.01	mg/L
DIBENZOFURAN	132-64-9	0.024	0.01	mg/L
DIETHYLPHTHALATE	84-66-2	29	0.01	mg/L
DIMETHYLPHTHALATE	131-11-3	370	0.01	mg/L
DI-N-BUTYLPHTHALATE	84-74-2	3.7	0.01	mg/L
DI-N-OCTYLPHTHALATE	117-84-0	0.73	0.01	mg/L
HEXACHLOROBENZENE	118-74-1	0.001	0.01	mg/L
HEXACHLOROBUTADIENE	87-68-3	0.00085	0.02	mg/L
HEXACHLOROCYCLOPENTADIENE	77-47-4	0.26	0.01	mg/L
HEXACHLOROETHANE	67-72-1	0.0047	0.01	mg/L
ISOPHORONE	78-59-1	0.07	0.01	mg/L
NITROBENZENE	98-95-3	0.0034	0.01	mg/L
N-NITROSODI-N-PROPYLAMINE	621-64-7	0.000009	0.02	mg/L
N-NITROSODIPHENYLAMINE	86-30-6	0.014	0.01	mg/L
PENTACHLOROPHENOL	87-86-5	0.001	0.05	mg/L
PHENANTHRENE	85-01-8	NE	0.01	mg/L
PHENOL	108-95-2	22	0.01	mg/L
POLYNUCLEAR AROMATIC HYDROCARBONS				
ACENAPHTHENE	83-32-9	0.37	0.01	mg/L
ANTHRACENE	120-12-7	1.8	0.01	mg/L
BENZO(A)ANTHRACENE	56-55-3	0.000091	0.01	mg/L
BENZO(A)PYRENE	50-32-8	0.0002	0.01	mg/L
BENZO(B)FLUORANTHENE	205-99-2	0.000091	0.01	mg/L
BENZO(G,H,I)PERYLENE	191-24-2	NE	0.01	mg/L
BENZO(K)FLUORANTHENE	207-08-9	0.00091	0.01	mg/L
CHRYSENE	218-01-9	0.0091	0.01	mg/L
DIBENZO(A,H)ANTHRACENE	53-70-3	0.000009	0.01	mg/L
FLUORANTHENE	206-44-0	1.5	0.01	mg/L
FLUORENE	86-73-7	0.24	0.01	mg/L

Table 2. Groundwater Sampling Analyte List
Marshall Army Chemicals Plant

Analyte	CAS No.	GW-RBC	LOD Range	Units
INDENO(1,2,3-CD)PYRENE	193-39-5	0.000091	0.01	mg/L
NAPHTHALENE	91-20-3	0.0062	0.01	mg/L
PYRENE	129-00-0	0.18	0.01	mg/L
PESTICIDES				
4,4-DDD	72-54-8	0.00028	0.00003-0.00075	mg/L
4,4-DDE	72-55-9	0.0002	0.00003-0.00075	mg/L
4,4-DDT	50-29-3	0.0002	0.00003-0.00075	mg/L
ALDRIN	309-00-2	0.0000039	0.000015-0.00038	mg/L
ALPHA-BHC	319-84-6	0.000011	0.000015-0.00038	mg/L
ALPHA-CHLORDANE	5103-71-9	NE	0.000015-0.00038	mg/L
BETA-BHC	319-85-7	0.000037	0.000015-0.00038	mg/L
DELTA-BHC	319-86-8	NE	0.000015-0.00038	mg/L
DIELDRIN	60-57-1	0.0000041	0.00003-0.00075	mg/L
ENDOSULFAN I	959-98-8	NE	0.000015-0.00038	mg/L
ENDOSULFAN II	33213-65-9	NE	0.00003-0.00075	mg/L
ENDOSULFAN SULFATE	1031-07-8	NE	0.00003-0.00075	mg/L
ENDRIN	72-20-8	0.011	0.00003-0.00075	mg/L
ENDRIN ALDEHYDE	7421-93-4	NE	0.00003-0.00075	mg/L
ENDRIN KETONE	53494-70-5	NE	0.00003-0.00075	mg/L
GAMMA-BHC	58-89-9	0.0002	0.000015-0.00038	mg/L
GAMMA-CHLORDANE	5103-74-2	NE	0.000015-0.00038	mg/L
HEPTACHLOR	76-44-8	0.0004	0.000015-0.00038	mg/L
HEPTACHLOR EPOXIDE	1024-57-3	0.0002	0.000015-0.00038	mg/L
METHOXYCHLOR	72-43-5	0.18	0.000015-0.00038	mg/L
TOXAPHENE	8001-35-2	0.003	0.00015-0.0062	mg/L
POLYCHLORINATED BIPHENYLS				
AROCLOR-1016	12674-11-2	0.00095	0.0005	mg/L
AROCLOR-1221	11104-28-2	0.000033	0.0005	mg/L
AROCLOR-1232	11141-16-5	0.000033	0.0005	mg/L
AROCLOR-1242	53469-21-9	0.000033	0.0005	mg/L
AROCLOR-1248	12672-29-6	0.000033	0.0005	mg/L
AROCLOR-1254	11097-69-1	0.000033	0.0005	mg/L
AROCLOR-1260	11096-82-5	0.000033	0.0005	mg/L
METALS				
ALUMINUM, DISSOLVED	7429-90-5	37	0.10	mg/L
ANTIMONY, DISSOLVED	7440-36-0	0.015	0.10	mg/L
ARSENIC, DISSOLVED	7440-38-2	0.05	0.0050	mg/L
BARIUM, DISSOLVED	7440-39-3	2.6	0.0010	mg/L

Table 2. Groundwater Sampling Analyte List
Marshall Army Chemicals Plant

Analyte	CAS No.	GW-RBC	LOD Range	Units
BERYLLIUM, DISSOLVED	7440-41-7	0.073	0.0010	mg/L
CADMIUM, DISSOLVED	7440-43-9	0.018	0.0010	mg/L
CALCIUM, DISSOLVED	7440-70-2	NE	0.050	mg/L
CHROMIUM, DISSOLVED	7440-47-3	0.11	0.0050	mg/L
COBALT, DISSOLVED	7440-48-4	2.19	0.0050	mg/L
COPPER, DISSOLVED	7440-50-8	2.19	0.0050	mg/L
CYANIDE	NL	0.2	0.020	mg/L
IRON, DISSOLVED	7439-89-6	11	0.050	mg/L
LEAD, DISSOLVED	7439-92-1	0.015	0.0050	mg/L
MAGNESIUM, DISSOLVED	7439-95-4	NE	0.050	mg/L
MANGANESE, DISSOLVED	7439-96-5	NE	0.010	mg/L
MERCURY, DISSOLVED	7439-97-6	0.011	0.00020-0.010	mg/L
NICKEL, DISSOLVED	7440-02-0	0.73	0.0050	mg/L
POTASSIUM, DISSOLVED	7440-09-7	NE	1.0	mg/L
SELENIUM, DISSOLVED	7782-49-2	0.18	0.0050	mg/L
SILVER, DISSOLVED	7440-22-4	0.18	0.0050	mg/L
SODIUM, DISSOLVED	7440-23-5	NE	1.0-500	mg/L
THALLIUM, DISSOLVED	7440-28-0	0.0024	0.010	mg/L
VANADIUM, DISSOLVED	7440-62-2	0.26	0.0050	mg/L
ZINC, DISSOLVED	7440-66-6	11	0.020	mg/L

Notes:

CAS No. = Chemical Abstract Service number
NL = CAS No. Not Listed in laboratory analytical results.
RBC = Risk-based concentration
NE = Not Established
mg/L = milligrams per liter
1 = Risk-based concentrations obtained from West Virginia Voluntary Remediation and Redevelopment Act (WV VRRA) De Minimis Standard, revised 2002.
2 = This assessment uses the following reference standards for Groundwater RBCs: Vinyl Chloride (lifetime) and Vinyl Chloride (adult); 4-Methylphenol for 3- & 4-Methylphenol; Chromium VI for Chromium; Mercury & compounds for Mercury; and, Lead (*) for Lead.

Table 3. Groundwater Measurement Summary
Marshall Army Chemicals Plant

Well/PZ I.D.	Installation Date	Measurement Date	TOC Elevation (feet above MSL)	DTW (feet BTOC)	GW Elevation (feet above MSL)	TD (feet BGS)
MWDEP-1A	03/27/03	04/11/03	642.54	45.75	596.79	50.08
MWDEP-1B	03/27/03	04/11/03	642.46	45.80	596.66	88.76
MWDEP-2A	03/31/03	04/11/03	640.67	44.25	596.42	50.05
MWDEP-2B	04/01/03	04/11/03	640.86	44.51	596.35	89.53
MWDEP-3A	03/28/03	04/10/03	638.58	42.33	596.25	50.27
MWDEP-3B	03/31/03	04/10/03	638.51	42.60	595.91	89.20
MWDEP-4A	03/25/03	04/10/03	634.19	37.93	596.26	45.69
MWDEP-4B	03/24/03	04/10/03	634.68	38.47	596.21	82.44
MWDEP-5A	04/02/03	04/10/03	620.06	13.65	606.41	31.75
MWDEP-5B	04/03/03	04/10/03	620.07	23.00	597.07	69.22
MWDEP-6A	03/25/03	04/10/03	617.95	11.84	606.11	24.47
MWDEP-6B	03/26/03	04/10/03	617.75	20.76	596.99	62.36
PZ-1[1]	02/10/03	02/13/03	650.19	15.00	635.19	44.00
PZ-2[1]	02/13/03	02/26/03	632.48	16.00	616.48	24.00
PZ-3[1]	02/25/03	02/26/03	619.63	23.50	596.13	35.50
PZ-4[1]	02/26/03	02/26/03	631.88	30.00	601.88	40.00
PZ-5[1]	03/03/03	03/03/03	651.90	31.00	620.90	48.00
PZ-6[1]	3/13/2003	3/13/2003	635.12	36.00	599.12	36.00

Notes:

TOC = Top of Casing
MSL = Mean Sea Level
DTW = Depth to Water
BTOC = Below TOC
GW = Groundwater
NE = Not Established
TD = Total Depth of Well below ground surface (BGS)
BGS = Below Ground Surface (taken as top of concrete pad)
1= The soil borings that corresponded to the temporary piezometers (PZ) are as follows: PZ-1=SB-5; PZ-2=SB- 29;PZ-3=SB-34; PZ-4=SB-27; PZ-5=SB 3; and, PZ-6=SB-25

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
	SB-1 (3/4/03)	
SB-1 0-4'	ACETONE	0.013
	CARBON DISULFIDE	0.0081
	TETRACHLOROETHENE	0.015
	CARBAZOLE	0.085
	ACENAPHTHENE	0.11
	ANTHRACENE	0.2
	BENZO(A)ANTHRACENE	0.48
	BENZO(A)PYRENE	**0.45**
	BENZO(B)FLUORANTHENE	0.29
	BENZO(G,H,I)PERYLENE	0.23
	BENZO(K)FLUORANTHENE	0.41
	CHRYSENE	0.44
	DIBENZO(A,H)ANTHRACENE	**0.079**
	FLUORANTHENE	1.2
	FLUORENE	0.084
	INDENO(1,2,3-CD)PYRENE	0.22
	PHENANTHRENE	0.79
	PYRENE	0.83
	ALPHA-BHC	0.016
	ALUMINUM	5500
	ARSENIC	**7.1**
	BARIUM	53
	BERYLLIUM	0.40
	CADMIUM	0.46
	CALCIUM	3400
	CHROMIUM	7.8
	COBALT	5.3
	COPPER	13
	IRON	14000
	LEAD	8.4
	MAGNESIUM	1800
	MANGANESE	690
	NICKEL	9.1
	POTASSIUM	500
	VANADIUM	9.4
	ZINC	33
SB-1 12-14'	ACETONE	0.022
	TETRACHLOROETHENE	0.01
	ALUMINUM	3100
	ARSENIC	**8.3**
	BARIUM	37
	BERYLLIUM	0.35
	CADMIUM	0.59
	CALCIUM	850
	CHROMIUM	5.6
	COBALT	6.0
	COPPER	11
	IRON	19000
	LEAD	6.6
	MAGNESIUM	810
	MANGANESE	520
	NICKEL	9.1
	POTASSIUM	320
	VANADIUM	7.5
	ZINC	32

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
	SB-2 (3/4/03)	
SB-2 0-4'	ACETONE	0.021
	TETRACHLOROETHENE	0.0057
	BENZO(A)ANTHRACENE	0.18
	BENZO(A)PYRENE	**0.17**
	BENZO(B)FLUORANTHENE	0.14
	BENZO(K)FLUORANTHENE	0.16
	CHRYSENE	0.18
	FLUORANTHENE	0.38
	INDENO(1,2,3-CD)PYRENE	0.078
	PHENANTHRENE	0.2
	PYRENE	0.29
	ALPHA-BHC	0.003
	BETA-BHC	0.066
	ALUMINUM	4800
	ARSENIC	**4.6**
	BARIUM	69
	BERYLLIUM	0.47
	CADMIUM	0.35
	CALCIUM	8900
	CHROMIUM	5.6
	COBALT	4.8
	COPPER	11
	CYANIDE	0.21
	IRON	11000
	LEAD	9.6
	MAGNESIUM	2500
	MANGANESE	660
	MERCURY, TOTAL	0.13
	NICKEL	6.8
	POTASSIUM	390
	SODIUM	930
	VANADIUM	7.1
	ZINC	33
SB-2 20-22'	ACETONE	0.016
	TETRACHLOROETHENE	0.0093
	ALUMINUM	2500
	ARSENIC	**5.7**
	BARIUM	35
	BERYLLIUM	0.29
	CADMIUM	0.45
	CALCIUM	900
	CHROMIUM	5.4
	COBALT	6.2
	COPPER	10
	IRON	14000
	LEAD	7.8
	MAGNESIUM	810
	MANGANESE	510
	NICKEL	9.3
	POTASSIUM	280
	SODIUM	250
	VANADIUM	6.9
	ZINC	29

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
	SB-3 (3/3/03)	
SB-3 0-4'	1,4-DICHLOROBENZENE	0.003
	2-BUTANONE	0.014
	ACETONE	0.08
	TOLUENE	0.0027
	ALPHA-BHC	0.0023
	BETA-BHC	0.0087
	ALUMINUM	6600
	ARSENIC	**6.2**
	BARIUM	170
	BERYLLIUM	0.43
	CADMIUM	0.43
	CALCIUM	650
	CHROMIUM	6.7
	COBALT	5.4
	COPPER	8.8
	IRON	14000
	LEAD	9.4
	MAGNESIUM	1100
	MANGANESE	560
	NICKEL	8.2
	POTASSIUM	310
	VANADIUM	12
	ZINC	31
SB-3 44-48'	ACETONE	0.022
	ALUMINUM	3600
	ARSENIC	**6.2**
	BARIUM	47
	BERYLLIUM	0.33
	CADMIUM	0.61
	CALCIUM	810
	CHROMIUM	6.3
	COBALT	5.1
	COPPER	15
	IRON	18000
	LEAD	7.4
	MAGNESIUM	990
	MANGANESE	560
	NICKEL	7.8
	POTASSIUM	430
	VANADIUM	8.7
	ZINC	35

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
	SB-4 (3/6/03)	
SB-4 0-2'	2-BUTANONE	0.012
	ACETONE	0.05
	ALUMINUM	7200
	ARSENIC	**6.1**
	BARIUM	380
	BERYLLIUM	0.53
	CADMIUM	0.20
	CALCIUM	6800
	CHROMIUM	7.6
	COBALT	5.6
	COPPER	12
	CYANIDE	0.14
	IRON	15000
	LEAD	12
	MAGNESIUM	1500
	MANGANESE	780
	NICKEL	10
	POTASSIUM	390
	VANADIUM	11
	ZINC	55
SB-4 40-42'	ACETONE	0.009
	TETRACHLOROETHENE	0.0079
	ALUMINUM	2800
	ARSENIC	**9.2**
	BARIUM	30
	BERYLLIUM	0.26
	CADMIUM	0.19
	CALCIUM	950
	CHROMIUM	6.1
	COBALT	6.2
	COPPER	12
	IRON	16000
	LEAD	7.0
	MAGNESIUM	970
	MANGANESE	520
	NICKEL	7.6
	POTASSIUM	240
	VANADIUM	6.6
	ZINC	31

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
	SB-5 (2/10/03)	
SB-5 0-2'	ACETONE	0.019
	ALUMINUM	6400
	ARSENIC	**9.1**
	BARIUM	100
	BERYLLIUM	0.61
	CADMIUM	0.82
	CALCIUM	140
	CHROMIUM	8.1
	COBALT	6.2
	COPPER	9.3
	CYANIDE	0.14
	IRON	**17000**
	LEAD	10
	MAGNESIUM	970
	MANGANESE	860
	NICKEL	8.6
	POTASSIUM	320
	VANADIUM	13
	ZINC	43
SB-5 36-40'	FLUORANTHENE	0.088
	ACETONE	0.0075
	TETRACHLOROETHENE	0.014
	ALUMINUM	2800
	ARSENIC	**4.5**
	BARIUM	37
	BERYLLIUM	0.28
	CADMIUM	0.34
	CALCIUM	550
	CHROMIUM	4.4
	COBALT	4.3
	COPPER	8.6
	IRON	14000
	LEAD	5.4
	MAGNESIUM	630
	MANGANESE	390
	NICKEL	5.8
	POTASSIUM	350
	VANADIUM	6.9
	ZINC	23

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
	SB-6 (2/10/03)	
SB-6 0-2'	ACETONE	0.0076
	ALUMINUM	6900
	ARSENIC	**8.2**
	BARIUM	70
	BERYLLIUM	0.56
	CADMIUM	0.46
	CALCIUM	560
	CHROMIUM	9
	COBALT	8.5
	COPPER	11
	IRON	8700
	LEAD	9.5
	MAGNESIUM	1300
	MANGANESE	1000
	NICKEL	9.8
	POTASSIUM	430
	VANADIUM	12
	ZINC	33
SB-6 16-18'	ALUMINUM	4100
	ARSENIC	**7.3**
	BARIUM	54
	BERYLLIUM	0.3
	CADMIUM	0.33
	CALCIUM	710
	CHROMIUM	5.3
	COBALT	4.6
	COPPER	11
	CYANIDE	0.13
	IRON	15000
	LEAD	7.3
	MAGNESIUM	1000
	MANGANESE	540
	NICKEL	8.8
	POTASSIUM	360
	VANADIUM	7
	ZINC	30

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
	SB-7 (2/12/03)	
SB-7 0-2'	ACETONE	0.011
	ALUMINUM	6600
	ARSENIC	**8.2**
	BARIUM	190
	BERYLLIUM	0.49
	CADMIUM	0.54
	CALCIUM	260
	CHROMIUM	9.8
	COBALT	5.9
	COPPER	12
	IRON	18000
	LEAD	10
	MAGNESIUM	1200
	MANGANESE	630
	NICKEL	10
	POTASSIUM	540
	VANADIUM	12
	ZINC	34
SB-7 12-14'	ALUMINUM	3800
	ARSENIC	**11**
	BARIUM	84
	BERYLLIUM	0.57
	CADMIUM	1
	CALCIUM	870
	CHROMIUM	9.8
	COBALT	6.4
	COPPER	19
	IRON	**22000**
	LEAD	11
	MAGNESIUM	950
	MANGANESE	1200
	NICKEL	11
	POTASSIUM	430
	VANADIUM	10
	ZINC	54

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
	SB-8 (2/27/03)	
SB-8 0-2'	2-BUTANONE	0.015
	ACETONE	0.06
	TETRACHLOROETHENE	0.056
	TRICHLOROETHENE	0.0032
	BENZO(A)ANTHRACENE	0.42
	BENZO(A)PYRENE	**0.44**
	BENZO(B)FLUORANTHENE	0.29
	BENZO(G,H,I)PERYLENE	0.25
	BENZO(K)FLUORANTHENE	0.42
	CHRYSENE	0.45
	FLUORANTHENE	0.9
	INDENO(1,2,3-CD)PYRENE	0.2
	PHENANTHRENE	0.35
	PYRENE	0.76
	ALUMINUM	12000
	ARSENIC	**13**
	BARIUM	1400
	BERYLLIUM	0.98
	CADMIUM	1.2
	CALCIUM	5600
	CHROMIUM	14
	COBALT	7.0
	COPPER	18
	CYANIDE	0.18
	IRON	21000
	LEAD	37
	MAGNESIUM	2200
	MANGANESE	1100
	MERCURY, TOTAL	0.29
	NICKEL	18
	POTASSIUM	990
	VANADIUM	18
	ZINC	76
SB-8 44-48'	HEXACHLOROETHANE	0.13
	ACETONE	0.007
	TETRACHLOROETHENE	0.13
	TRICHLOROETHENE	0.0041
	ALUMINUM	3200
	ARSENIC	**5.4**
	BARIUM	36
	BERYLLIUM	0.28
	CADMIUM	0.72
	CALCIUM	16000
	CHROMIUM	7.2
	COBALT	4.8
	COPPER	9.7
	IRON	15000
	LEAD	6.7
	MAGNESIUM	1300
	MANGANESE	440
	NICKEL	8.2
	POTASSIUM	520
	VANADIUM	8.9
	ZINC	26

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
	SB-9 (2/28/03)	
SB-9 0-4'	ALPHA-BHC	0.0072
	BETA-BHC	0.011
	DELTA-BHC	0.00063
	GAMMA-BHC (LINDANE)	0.0024
	ALUMINUM	9100
	ARSENIC	**13**
	BARIUM	680
	BERYLLIUM	0.60
	CADMIUM	1.0
	CALCIUM	1300
	CHROMIUM	12
	COBALT	7.7
	COPPER	18
	IRON	22000
	LEAD	48
	MAGNESIUM	1600
	MANGANESE	510
	NICKEL	14
	POTASSIUM	590
	SODIUM	190
	VANADIUM	17
	ZINC	90
SB-9 28-30'	**TETRACHLOROETHENE**	**24**
	ALUMINUM	2100
	ARSENIC	**6.2**
	BARIUM	34
	BERYLLIUM	0.38
	CADMIUM	0.52
	CALCIUM	1500
	CHROMIUM	5.4
	COBALT	4.7
	COPPER	8.6
	IRON	13000
	LEAD	5.7
	MAGNESIUM	660
	MANGANESE	400
	NICKEL	7.5
	POTASSIUM	250
	VANADIUM	6.7
	ZINC	22

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
	SB-10 (2/27/03)	
SB-10 0-4'	**1,1,2,2-TETRACHLOROETHANE**	**0.38**
	TRICHLOROETHENE	0.17
	BENZO(A)PYRENE	**0.082**
	BENZO(K)FLUORANTHENE	0.094
	CHRYSENE	0.093
	FLUORANTHENE	0.18
	PHENANTHRENE	0.11
	PYRENE	0.14
	ALUMINUM	8200
	ARSENIC	**8.5**
	BARIUM	110
	BERYLLIUM	0.63
	CADMIUM	0.92
	CALCIUM	1800
	CHROMIUM	11
	COBALT	10
	COPPER	11
	CYANIDE	0.20
	IRON	18000
	LEAD	14
	MAGNESIUM	1700
	MANGANESE	830
	NICKEL	13
	POTASSIUM	610
	VANADIUM	16
	ZINC	42
SB-10 12-14'	**1,1,2,2-TETRACHLOROETHANE**	**2**
	TETRACHLOROETHENE	0.89
	TRICHLOROETHENE	0.35

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
	SB-11 (2/26/03)	
SB-11 0-4'	1,4-DICHLOROBENZENE	0.0031
	ACETONE	0.033
	TETRACHLOROETHENE	0.021
	ALUMINUM	17000
	ARSENIC	**8.7**
	BARIUM	320
	BERYLLIUM	0.81
	CADMIUM	0.91
	CALCIUM	1300
	CHROMIUM	16
	COBALT	8.4
	COPPER	12
	IRON	20000
	LEAD	19
	MAGNESIUM	2100
	MANGANESE	530
	NICKEL	16
	POTASSIUM	1400
	VANADIUM	24
	ZINC	58
SB-11 36-40'	ACETONE	0.0058
	TETRACHLOROETHENE	0.0093
	ALUMINUM	5100
	ARSENIC	**7.6**
	BARIUM	48
	BERYLLIUM	0.35
	CADMIUM	0.84
	CALCIUM	1000
	CHROMIUM	7.8
	COBALT	4.7
	COPPER	13
	IRON	18000
	LEAD	6.4
	MAGNESIUM	1400
	MANGANESE	360
	NICKEL	9.1
	POTASSIUM	910
	VANADIUM	12
	ZINC	37

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
	SB-12 (2/14/03)	
SB-12-0-4'	ALUMINUM	7600
	ARSENIC	**6.3**
	BARIUM	120
	BERYLLIUM	0.57
	CADMIUM	0.5
	CALCIUM	600
	CHROMIUM	8.5
	COBALT	6.8
	COPPER	47
	CYANIDE	0.13
	IRON	14000
	LEAD	17
	MAGNESIUM	1200
	MANGANESE	610
	NICKEL	10
	POTASSIUM	520
	VANADIUM	12
	ZINC	56
SB-12-44-46'	ACETONE	0.0047
	ALUMINUM	2000
	ARSENIC	**4.2**
	BARIUM	27
	BERYLLIUM	0.26
	CADMIUM	0.33
	CALCIUM	580
	CHROMIUM	5.8
	COBALT	3.9
	COPPER	9.6
	IRON	12000
	LEAD	5.6
	MAGNESIUM	640
	MANGANESE	630
	NICKEL	5.6
	POTASSIUM	350
	VANADIUM	6.7
	ZINC	24

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
	SB-13 (2/11/03)	
SB-13 0-2'	ACETONE	0.018
	2-METHYLNAPHTHALENE	0.48
	ACETOPHENONE	0.11
	DIBENZOFURAN	0.093
	BENZO(A)ANTHRACENE	0.094
	CHRYSENE	0.14
	FLUORANTHENE	0.2
	INDENO(1,2,3-CD)PYRENE	0.05
	NAPHTHALENE	0.39
	PHENANTHRENE	0.26
	PYRENE	0.19
	ALUMINUM	9300
	ARSENIC	**7.3**
	BARIUM	160
	BERYLLIUM	0.7
	CADMIUM	0.43
	CALCIUM	730
	CHROMIUM	10
	COBALT	9.4
	COPPER	8
	CYANIDE	0.24
	IRON	16000
	LEAD	13
	MAGNESIUM	1600
	MANGANESE	700
	NICKEL	12
	POTASSIUM	520
	VANADIUM	15
	ZINC	39
SB-13 36-40'	ACETONE	0.0051
	TETRACHLOROETHENE	0.0024
	ALUMINUM	4400
	ARSENIC	**6.3**
	BARIUM	55
	BERYLLIUM	0.32
	CADMIUM	0.47
	CALCIUM	980
	CHROMIUM	6.4
	COBALT	5
	COPPER	14
	IRON	13000
	LEAD	8.2
	MAGNESIUM	1200
	MANGANESE	730
	NICKEL	8.7
	POTASSIUM	540
	VANADIUM	8
	ZINC	36

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
	SB-14 (2/11/03)	
SB-14 0-4'	ACETONE	0.026
	2-METHYLNAPHTHALENE	0.35
	NAPHTHALENE	0.3
	PHENANTHRENE	0.16
	ALUMINUM	9400
	ARSENIC	**13**
	BARIUM	30
	BERYLLIUM	0.43
	CADMIUM	0.65
	CALCIUM	330
	CHROMIUM	11
	COBALT	10
	COPPER	20
	CYANIDE	0.18
	IRON	**26000**
	LEAD	13
	MAGNESIUM	1800
	MANGANESE	460
	NICKEL	14
	POTASSIUM	750
	SODIUM	720
	VANADIUM	16
	ZINC	54

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
	SB-15 (3/7/03)	
SB-15 0-4'	ACETONE	0.015
	TETRACHLOROETHENE	0.0097
	ALUMINUM	7800
	ARSENIC	**13**
	BARIUM	590
	BERYLLIUM	0.43
	CADMIUM	0.20
	CALCIUM	1900
	CHROMIUM	8.7
	COBALT	9.2
	COPPER	19
	IRON	19000
	LEAD	14
	MAGNESIUM	1700
	MANGANESE	450
	NICKEL	12
	POTASSIUM	440
	SODIUM	410
	VANADIUM	12
	ZINC	49
SB-15 28-30	1,1,2,2-TETRACHLOROETHANE	0.0069
	ACETONE	0.009
	TETRACHLOROETHENE	0.035
	ALUMINUM	1600
	ARSENIC	**4.8**
	BARIUM	21
	BERYLLIUM	0.23
	CADMIUM	0.22
	CALCIUM	500
	CHROMIUM	3.9
	COBALT	4.1
	COPPER	6.5
	IRON	15000
	LEAD	5.1
	MAGNESIUM	540
	MANGANESE	400
	NICKEL	5.9
	POTASSIUM	220
	VANADIUM	4.8
	ZINC	23

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
	SB-16 (3/7/03)	
SB-16 0-4'	ACETONE	0.012
	TETRACHLOROETHENE	0.062
	2-METHYLNAPHTHALENE	1.3
	DIBENZOFURAN	0.26
	FLUORANTHENE	0.086
	NAPHTHALENE	1.1
	PHENANTHRENE	0.44
	BETA-BHC	0.015
	HEPTACHLOR EPOXIDE	0.0031
	ALUMINUM	7400
	ARSENIC	**11**
	BARIUM	58
	BERYLLIUM	0.43
	CADMIUM	0.27
	CALCIUM	1400
	CHROMIUM	10
	COBALT	8.4
	COPPER	17
	IRON	20000
	LEAD	12
	MAGNESIUM	1600
	MANGANESE	490
	NICKEL	13
	POTASSIUM	620
	VANADIUM	14
	ZINC	45
SB-16 28-30'	**TETRACHLOROETHENE**	**9.1**
	TRICHLOROETHENE	1.3
	ALUMINUM	2000
	ARSENIC	**4.3**
	BARIUM	68
	BERYLLIUM	0.47
	CADMIUM	0.26
	CALCIUM	11000
	CHROMIUM	5.3
	COBALT	5.4
	COPPER	8.9
	IRON	14000
	LEAD	9.7
	MAGNESIUM	970
	MANGANESE	1100
	NICKEL	7.7
	POTASSIUM	300
	VANADIUM	7.3
	ZINC	28

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
	SB-17 (3/14/03)	
SB-17 0-4'	ACETONE	0.02
	CARBON DISULFIDE	0.0071
	TETRACHLOROETHENE	0.017
	TRICHLOROETHENE	0.0034
	CARBAZOLE	0.16
	DIBENZOFURAN	0.092
	ACENAPHTHENE	0.32
	ANTHRACENE	0.34
	BENZO(A)ANTHRACENE	**0.74**
	BENZO(A)PYRENE	**1.1**
	BENZO(B)FLUORANTHENE	**0.89**
	BENZO(G,H,I)PERYLENE	0.65
	BENZO(K)FLUORANTHENE	1.1
	CHRYSENE	0.8
	FLUORANTHENE	2.8
	FLUORENE	0.18
	INDENO(1,2,3-CD)PYRENE	0.56
	NAPHTHALENE	0.16
	PHENANTHRENE	1.9
	PYRENE	1.8
	BETA-BHC	**1.9**
	ALUMINUM	8000
	ARSENIC	**7.6**
	BARIUM	150
	BERYLLIUM	1.0
	CADMIUM	0.36
	CALCIUM	10000
	CHROMIUM	8.1
	COBALT	5.4
	COPPER	13
	IRON	13000
	LEAD	12
	MAGNESIUM	4400
	MANGANESE	470
	MERCURY, TOTAL	0.38
	NICKEL	10
	POTASSIUM	680
	SODIUM	220
	VANADIUM	10
	ZINC	39
SB-17 28-30'	1,1,1-TRICHLOROETHANE	0.48
	2-BUTANONE	0.21
	CARBON TETRACHLORIDE	0.15
	TETRACHLOROETHENE	**11**
	TRICHLOROETHENE	1.9
	ALUMINUM	2500
	ARSENIC	**6.0**
	BARIUM	27
	BERYLLIUM	0.43
	CADMIUM	0.43
	CALCIUM	1800
	CHROMIUM	5.0
	COBALT	4.7
	COPPER	8.4
	IRON	18000
	LEAD	5.4
	MAGNESIUM	820
	MANGANESE	370
	NICKEL	7.7
	POTASSIUM	270
	VANADIUM	6.4
	ZINC	25

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
	SB-18 (3/13/03)	
SB-18 0-4'	ACETONE	0.0088
	CARBON DISULFIDE	0.0032
	TETRACHLOROETHENE	0.0042
	ALUMINUM	7400
	ARSENIC	**14**
	BARIUM	40
	BERYLLIUM	0.44
	CADMIUM	0.48
	CALCIUM	2900
	CHROMIUM	9.2
	COBALT	7.8
	COPPER	18
	IRON	20000
	LEAD	12
	MAGNESIUM	1800
	MANGANESE	420
	NICKEL	12
	POTASSIUM	660
	VANADIUM	14
	ZINC	43
SB-18 28-30'	1,2-DICHLOROBENZENE	0.014
	1,4-DICHLOROBENZENE	0.0082
	ACETONE	0.0089
	TETRACHLOROETHENE	0.029
	ALUMINUM	1400
	ARSENIC	**5.6**
	BARIUM	22
	BERYLLIUM	0.24
	CADMIUM	0.25
	CALCIUM	6400
	CHROMIUM	3.4
	COBALT	4.0
	COPPER	6.7
	IRON	12000
	LEAD	4.8
	MAGNESIUM	610
	MANGANESE	410
	NICKEL	6.7
	POTASSIUM	190
	VANADIUM	4.6
	ZINC	20

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
	SB-19 (3/12/03)	
SB-19 0-4'	ACETONE	0.023
	TETRACHLOROETHENE	0.014
	ALPHA-BHC	0.0046
	BETA-BHC	0.0065
	DELTA-BHC	0.0079
	ALUMINUM	7500
	ARSENIC	**13**
	BARIUM	280
	BERYLLIUM	0.40
	CADMIUM	0.28
	CALCIUM	1400
	CHROMIUM	9.4
	COBALT	8.4
	COPPER	15
	IRON	19000
	LEAD	12
	MAGNESIUM	1500
	MANGANESE	470
	NICKEL	12
	POTASSIUM	580
	SODIUM	200
	VANADIUM	14
	ZINC	43
SB-19 32-34'	**1,1,2-TRICHLOROETHANE**	**5.1**
	1,2,4-TRICHLOROBENZENE	3.4
	TETRACHLOROETHENE	**140**
	TRICHLOROETHENE	**4.5**
	ALUMINUM	2300
	ARSENIC	**3.8**
	BARIUM	56
	BERYLLIUM	0.39
	CADMIUM	0.22
	CALCIUM	16000
	CHROMIUM	5.6
	COBALT	3.7
	COPPER	9.6
	IRON	11000
	LEAD	5.3
	MAGNESIUM	1100
	MANGANESE	400
	NICKEL	7.5
	POTASSIUM	270
	VANADIUM	5.9
	ZINC	23

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
	SB-20 (2/24/03)	
SB-20 0-4'	1,2,4-TRICHLOROBENZENE	0.091
	2-BUTANONE	0.45
	CARBON DISULFIDE	0.061
	CIS-1,2-DICHLOROETHENE	0.072
	ISOPROPYLBENZENE	0.085
	TETRACHLOROETHENE	0.77
	TOLUENE	0.13
	TRANS-1,2-DICHLOROETHENE	0.066
	TRICHLOROETHENE	1.2
	XYLENES (TOTAL)	0.27
	FLUORANTHENE	0.14
	PHENANTHRENE	0.1
	PYRENE	0.11
	ALUMINUM	8000
	ARSENIC	**6.7**
	BARIUM	150
	BERYLLIUM	0.81
	CADMIUM	0.89
	CALCIUM	1000
	CHROMIUM	9.0
	COBALT	7.6
	COPPER	17
	CYANIDE	0.13
	IRON	13000
	LEAD	14
	MAGNESIUM	1100
	MANGANESE	620
	NICKEL	12
	POTASSIUM	540
	SODIUM	260
	VANADIUM	12
	ZINC	46
SB-20 40-44'	HEXACHLOROETHANE	0.37
	TETRACHLOROETHENE	**15**
	TRICHLOROETHENE	0.27
	ALUMINUM	2800
	ARSENIC	**8.4**
	BARIUM	55
	BERYLLIUM	0.35
	CADMIUM	0.69
	CALCIUM	2300
	CHROMIUM	6.0
	COBALT	6.5
	COPPER	11
	CYANIDE	0.32
	IRON	14000
	LEAD	8.7
	MAGNESIUM	900
	MANGANESE	470
	NICKEL	9.7
	POTASSIUM	410
	VANADIUM	8.5
	ZINC	35

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
	SB-21 (2/13/03)	
SB-21-0-4'	AROCLOR-1254	0.053
	ACETONE	0.0072
	ALUMINUM	8300
	ARSENIC	**17**
	BARIUM	140
	BERYLLIUM	0.62
	CADMIUM	0.62
	CALCIUM	1200
	CHROMIUM	12
	COBALT	7.5
	COPPER	13
	IRON	17000
	LEAD	16
	MAGNESIUM	1500
	MANGANESE	590
	NICKEL	13
	POTASSIUM	650
	VANADIUM	14
	ZINC	50
SB-21-12-14'	ACETONE	0.0068
	ALUMINUM	3300
	ARSENIC	**5.1**
	BARIUM	52
	BERYLLIUM	0.27
	CADMIUM	0.44
	CALCIUM	580
	CHROMIUM	6
	COBALT	5.8
	COPPER	13
	IRON	13000
	LEAD	6.4
	MAGNESIUM	1000
	MANGANESE	610
	NICKEL	10
	POTASSIUM	330
	SODIUM	230
	VANADIUM	6.7
	ZINC	35

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
	SB-22 (2/12/03)	
SB-22 0-4'	ALUMINUM	7000
	ARSENIC	**11**
	BARIUM	110
	BERYLLIUM	0.69
	CADMIUM	0.49
	CALCIUM	460
	CHROMIUM	9.1
	COBALT	8.4
	COPPER	12
	CYANIDE	0.1
	IRON	20000
	LEAD	9.5
	MAGNESIUM	1200
	MANGANESE	660
	NICKEL	13
	POTASSIUM	540
	VANADIUM	11
	ZINC	42
SB-22 12-16'	BIS(2-ETHYLHEXYL) PHTHALATE	0.18
	ACETONE	0.0096
	ALUMINUM	6500
	ARSENIC	**5.5**
	BARIUM	77
	BERYLLIUM	0.61
	CADMIUM	0.36
	CALCIUM	610
	CHROMIUM	8.6
	COBALT	8
	COPPER	11
	CYANIDE	0.2
	IRON	18000
	LEAD	9.2
	MAGNESIUM	1200
	MANGANESE	680
	NICKEL	11
	POTASSIUM	920
	VANADIUM	10
	ZINC	35

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
	SB-23 (2/12/03)	
SB-23 0-4'	ACETONE	0.024
	ALUMINUM	7200
	ARSENIC	**12**
	BARIUM	69
	BERYLLIUM	0.52
	CADMIUM	0.59
	CALCIUM	590
	CHROMIUM	10
	COBALT	9.5
	COPPER	16
	IRON	19000
	LEAD	13
	MAGNESIUM	1600
	MANGANESE	490
	NICKEL	13
	POTASSIUM	580
	VANADIUM	14
	ZINC	190
SB-23 16-18'	1,2-DICHLOROBENZENE	0.054
	1,3-DICHLOROBENZENE	0.0056
	1,4-DICHLOROBENZENE	0.022
	CHLOROBENZENE	0.068
	ALUMINUM	3000
	ARSENIC	**4.9**
	BARIUM	36
	BERYLLIUM	0.24
	CADMIUM	0.36
	CALCIUM	440
	CHROMIUM	5.6
	COBALT	4
	COPPER	10
	IRON	8600
	LEAD	5.5
	MAGNESIUM	920
	MANGANESE	560
	NICKEL	8
	POTASSIUM	430
	SODIUM	290
	VANADIUM	5.3
	ZINC	30

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
	SB-24 (3/13/03)	
SB-24 0-4'	ACETONE	0.026
	TETRACHLOROETHENE	0.0036
	ALUMINUM	9300
	ARSENIC	**12**
	BARIUM	26
	BERYLLIUM	0.40
	CADMIUM	0.58
	CALCIUM	330
	CHROMIUM	12
	COBALT	8.8
	COPPER	22
	IRON	20000
	LEAD	11
	MAGNESIUM	2400
	MANGANESE	360
	NICKEL	17
	POTASSIUM	790
	VANADIUM	14
	ZINC	54
SB-24 32-34'	1,1,1-TRICHLOROETHANE	0.024
	1,2-DICHLOROBENZENE	0.0088
	1,3-DICHLOROBENZENE	0.003
	1,4-DICHLOROBENZENE	0.0038
	ACETONE	0.01
	CARBON TETRACHLORIDE	0.006
	CHLOROFORM	0.0035
	TETRACHLOROETHENE	0.86
	TRICHLOROETHENE	0.076
	ALUMINUM	1900
	ARSENIC	**4.2**
	BARIUM	41
	CALCIUM	12000
	CHROMIUM	4.0
	COBALT	3.2
	COPPER	7.2
	IRON	7100
	LEAD	6.2
	MAGNESIUM	1400
	MANGANESE	310
	NICKEL	6.0
	POTASSIUM	310
	VANADIUM	4.3
	ZINC	16

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
	SB-25 (3/13/03)	
SB-25 0-4'	1,1,1-TRICHLOROETHANE	8.4
	1,1-DICHLOROETHANE	0.34
	BENZENE	**4.5**
	CARBON DISULFIDE	0.33
	CARBON TETRACHLORIDE	**4.3**
	ETHYLBENZENE	4.4
	ISOPROPYLBENZENE	2.5
	TOLUENE	20
	XYLENES (TOTAL)	15
	2-METHYLNAPHTHALENE	1.2
	ACETOPHENONE	0.11
	DIBENZOFURAN	0.23
	NAPHTHALENE	1.1
	PHENANTHRENE	0.36
	ALUMINUM	3800
	ARSENIC	**12**
	BARIUM	800
	BERYLLIUM	0.33
	CADMIUM	1.5
	CALCIUM	1100
	CHROMIUM	22
	COBALT	2.7
	COPPER	310
	IRON	**31000**
	LEAD	150
	MAGNESIUM	200
	MANGANESE	50
	MERCURY, TOTAL	4.2
	NICKEL	44
	POTASSIUM	500
	SELENIUM	1.1
	VANADIUM	16
	ZINC	66
SB-25 40-42'	1,2,4-TRICHLOROBENZENE	0.0061
	1,2-DICHLOROBENZENE	0.064
	1,3-DICHLOROBENZENE	0.016
	1,4-DICHLOROBENZENE	0.042
	ACETONE	0.013
	CHLOROBENZENE	0.022
	TETRACHLOROETHENE	0.0069
	ALUMINUM	3700
	ARSENIC	**5.3**
	BARIUM	52
	BERYLLIUM	0.33
	CADMIUM	0.31
	CALCIUM	1600
	CHROMIUM	5.8
	COBALT	5.3
	COPPER	12
	IRON	15000
	LEAD	6.9
	MAGNESIUM	1300
	MANGANESE	640
	NICKEL	10
	POTASSIUM	550
	VANADIUM	20
	ZINC	28

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
	SB-26 (3/12/03)	
SB-26 0-4'	1,2,4-TRICHLOROBENZENE	0.0037
	ACETONE	0.12
	CHLOROBENZENE	0.0047
	TETRACHLOROETHENE	0.013
	TRICHLOROETHENE	0.0046
	ALUMINUM	9000
	ARSENIC	**18**
	BARIUM	1200
	BERYLLIUM	0.76
	CADMIUM	0.53
	CALCIUM	3800
	CHROMIUM	**31**
	COBALT	7.5
	COPPER	19
	CYANIDE	0.22
	IRON	21000
	LEAD	94
	MAGNESIUM	1200
	MANGANESE	510
	MERCURY, TOTAL	0.32
	NICKEL	12
	POTASSIUM	680
	SELENIUM	1.1
	VANADIUM	76
	ZINC	230
SB-26 20-22'	TETRACHLOROETHENE	0.11
	ALUMINUM	2100
	ARSENIC	**5.9**
	BARIUM	23
	BERYLLIUM	0.43
	CADMIUM	0.30
	CALCIUM	3500
	CHROMIUM	5.1
	COBALT	3.9
	COPPER	10
	IRON	20000
	LEAD	5.2
	MAGNESIUM	840
	MANGANESE	430
	NICKEL	8.3
	POTASSIUM	270
	SODIUM	440
	VANADIUM	7.2
	ZINC	28

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
	SB-27 (2/26/03)	
SB-27 0-4'	ACETONE	0.015
	TETRACHLOROETHENE	0.028
	ALUMINUM	13000
	ARSENIC	**12**
	BARIUM	120
	BERYLLIUM	0.67
	CADMIUM	1.1
	CALCIUM	5800
	CHROMIUM	16
	COBALT	10
	COPPER	18
	IRON	**24000**
	LEAD	26
	MAGNESIUM	2100
	MANGANESE	530
	NICKEL	15
	POTASSIUM	1400
	VANADIUM	24
	ZINC	56
SB-27 24-26'	ACETONE	0.024
	CHLOROFORM	0.0069
	CIS-1,2-DICHLOROETHENE	0.004
	TETRACHLOROETHENE	**6.6**
	TRICHLOROETHENE	0.023
	ALUMINUM	2400
	ARSENIC	**7.0**
	BARIUM	28
	BERYLLIUM	0.28
	CADMIUM	0.74
	CALCIUM	590
	CHROMIUM	4.6
	COBALT	4.3
	COPPER	8.3
	IRON	15000
	LEAD	5.3
	MAGNESIUM	610
	MANGANESE	390
	NICKEL	6.8
	POTASSIUM	530
	VANADIUM	7.2
	ZINC	22

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
	SB-28 (2/26/03)	
SB-28 0-4'	1,1,1-TRICHLOROETHANE	0.015
	ACETONE	0.021
	CHRYSENE	0.082
	FLUORANTHENE	0.2
	PHENANTHRENE	0.16
	PYRENE	0.15
	ALUMINUM	14000
	ARSENIC	**13**
	BARIUM	96
	BERYLLIUM	0.65
	CADMIUM	1.1
	CALCIUM	1100
	CHROMIUM	16
	COBALT	8.8
	COPPER	17
	IRON	**26000**
	LEAD	19
	MAGNESIUM	2200
	MANGANESE	440
	NICKEL	17
	POTASSIUM	1800
	VANADIUM	26
	ZINC	55
SB-28 4-6'	**HEXACHLOROBENZENE**	**1.4**
	1,1-DICHLOROETHANE	0.0074
	1,2-DICHLOROBENZENE	0.0027
	1,4-DICHLOROBENZENE	0.0099
	ACETONE	0.0081
	CARBON DISULFIDE	0.0033
	CHLOROBENZENE	0.0032
	CHLOROETHANE	0.024
	ETHYLBENZENE	0.0039
	ALUMINUM	13000
	ARSENIC	**10**
	BARIUM	110
	BERYLLIUM	0.66
	CADMIUM	1.2
	CALCIUM	1600
	CHROMIUM	17
	COBALT	10
	COPPER	20
	IRON	**24000**
	LEAD	38
	MAGNESIUM	2000
	MANGANESE	1200
	MERCURY, TOTAL	0.20
	NICKEL	16
	POTASSIUM	2200
	SODIUM	200
	VANADIUM	24
	ZINC	57

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
	SB-29 (2/13/03)	
SB-29-0-4'	1,4-DICHLOROBENZENE	0.0054
	ACETONE	0.0074
	CHLOROBENZENE	0.01
	2-METHYLNAPHTHALENE	0.19
	3- & 4-METHYLPHENOL	0.11
	BIS(2-ETHYLHEXYL) PHTHALATE	0.2
	CARBAZOLE	0.12
	DIBENZOFURAN	0.1
	ACENAPHTHENE	0.11
	ANTHRACENE	0.2
	BENZO(A)ANTHRACENE	0.39
	BENZO(A)PYRENE	**0.35**
	BENZO(B)FLUORANTHENE	0.26
	BENZO(G,H,I)PERYLENE	0.16
	BENZO(K)FLUORANTHENE	0.29
	CHRYSENE	0.39
	FLUORANTHENE	1
	INDENO(1,2,3-CD)PYRENE	0.15
	NAPHTHALENE	0.17
	PHENANTHRENE	0.91
	PYRENE	0.79
	ALUMINUM	6700
	ARSENIC	**9.7**
	BARIUM	190
	BERYLLIUM	0.5
	CADMIUM	0.64
	CALCIUM	660
	CHROMIUM	10
	COBALT	8.8
	COPPER	22
	CYANIDE	0.086
	IRON	20000
	LEAD	24
	MAGNESIUM	1400
	MANGANESE	390
	NICKEL	13
	POTASSIUM	600
	VANADIUM	14
	ZINC	46
SB-29-8-10'	1,2,4-TRICHLOROBENZENE	2.2
	1,4-DICHLOROBENZENE	**100**
	CHLOROBENZENE	94
	XYLENES (TOTAL)	2.8

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
	SB-30 (2/13/03)	
SB-30-0-2'	2-METHYLNAPHTHALENE	0.4
	ACETOPHENONE	0.079
	NAPHTHALENE	0.33
	PHENANTHRENE	0.15
	ALUMINUM	6600
	ARSENIC	**7.6**
	BARIUM	180
	BERYLLIUM	0.54
	CADMIUM	0.57
	CALCIUM	1800
	CHROMIUM	9.2
	COBALT	5.9
	COPPER	14
	CYANIDE	0.12
	IRON	17000
	LEAD	14
	MAGNESIUM	1200
	MANGANESE	500
	NICKEL	9.9
	POTASSIUM	580
	VANADIUM	12
	ZINC	38
SB-30-12-16'	ALUMINUM	4400
	ARSENIC	**6.1**
	BARIUM	54
	BERYLLIUM	0.33
	CADMIUM	0.45
	CALCIUM	690
	CHROMIUM	6.7
	COBALT	5.6
	COPPER	12
	CYANIDE	0.12
	IRON	14000
	LEAD	8.4
	MAGNESIUM	1100
	MANGANESE	480
	NICKEL	10
	VANADIUM	8.2
	ZINC	30

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
	SB-31 (3/5/03)	
SB-31 0-4'	ACETONE	0.01
	CARBON DISULFIDE	0.0038
	CHLOROFORM	0.0044
	TETRACHLOROETHENE	0.016
	2-METHYLNAPHTHALENE	0.23
	NAPHTHALENE	0.18
	PHENANTHRENE	0.12
	ALPHA-BHC	**0.35**
	BETA-BHC	**1.8**
	GAMMA-BHC (LINDANE)	0.096
	ALUMINUM	7000
	ARSENIC	**31**
	BARIUM	310
	BERYLLIUM	0.92
	CADMIUM	0.64
	CALCIUM	2500
	CHROMIUM	19
	COBALT	9.1
	COPPER	22
	CYANIDE	0.17
	IRON	**23000**
	LEAD	29
	MAGNESIUM	1200
	MANGANESE	440
	NICKEL	16
	POTASSIUM	750
	VANADIUM	22
	ZINC	86
SB-31 12-16'	1,1,2,2-TETRACHLOROETHANE	0.003
	1,2-DICHLOROBENZENE	0.026
	1,3-DICHLOROBENZENE	0.0026
	1,4-DICHLOROBENZENE	0.019
	CHLOROBENZENE	0.16
	CHLOROFORM	0.014
	CIS-1,2-DICHLOROETHENE	0.0064
	TETRACHLOROETHENE	0.037
	TRICHLOROETHENE	0.033
	ALUMINUM	6800
	ARSENIC	**10**
	BARIUM	60
	BERYLLIUM	0.58
	CADMIUM	0.32
	CALCIUM	870
	CHROMIUM	11
	COBALT	7.4
	COPPER	14
	IRON	**27000**
	LEAD	12
	MAGNESIUM	1500
	MANGANESE	480
	NICKEL	14
	POTASSIUM	470
	VANADIUM	15
	ZINC	58

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
	SB-32 (3/5/03)	
SB-32 0-4'	1,2-DICHLOROBENZENE	0.015
	1,4-DICHLOROBENZENE	0.012
	ACETONE	0.01
	CARBON TETRACHLORIDE	0.0052
	CHLOROBENZENE	0.092
	CHLOROFORM	0.0087
	CHLOROMETHANE	0.0041
	TETRACHLOROETHENE	0.043
	TRICHLOROETHENE	0.018
	2-METHYLNAPHTHALENE	0.71
	DIBENZOFURAN	0.18
	BENZO(A)ANTHRACENE	0.1
	CHRYSENE	0.1
	FLUORANTHENE	0.11
	NAPHTHALENE	0.5
	PHENANTHRENE	0.38
	PYRENE	0.11
	ALPHA-BHC	0.045
	ALUMINUM	5700
	ARSENIC	**10**
	BARIUM	520
	BERYLLIUM	0.70
	CADMIUM	0.52
	CALCIUM	1700
	CHROMIUM	24
	COBALT	9.5
	COPPER	15
	IRON	**24000**
	LEAD	23
	MAGNESIUM	1400
	MANGANESE	610
	NICKEL	15
	POTASSIUM	650
	VANADIUM	37
	ZINC	64
SB-32 24-28'	HEXACHLOROBENZENE	0.095
	HEXACHLOROBUTADIENE	0.25
	HEXACHLOROETHANE	1.2
	1,1,2,2-TETRACHLOROETHANE	**16**
	1,2-DICHLOROBENZENE	3.6
	1,4-DICHLOROBENZENE	**3.8**
	CARBON TETRACHLORIDE	**8.6**
	CHLOROBENZENE	42
	CHLOROFORM	**38**
	TETRACHLOROETHENE	**380**
	TRICHLOROETHENE	**120**
	BETA-BHC	0.021
	GAMMA-BHC (LINDANE)	0.0086
	ALUMINUM	7000
	ARSENIC	**9.9**
	BARIUM	88
	BERYLLIUM	0.64
	CADMIUM	0.31
	CALCIUM	85
	CHROMIUM	**120**
	COBALT	5.4
	COPPER	15
	IRON	**24000**
	LEAD	11
	MAGNESIUM	1400
	MANGANESE	240
	NICKEL	14
	POTASSIUM	610
	SODIUM	1900
	VANADIUM	**730**
	ZINC	55

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
	SB-33 (3/6/03)	
SB-33 0-4'	ACETONE	0.0084
	CHLOROFORM	0.012
	TETRACHLOROETHENE	0.033
	2,4-DIMETHYLPHENOL	0.12
	2-METHYLNAPHTHALENE	2
	DIBENZOFURAN	0.43
	HEXACHLOROBUTADIENE	0.1
	HEXACHLOROETHANE	0.45
	ANTHRACENE	0.1
	BENZO(A)ANTHRACENE	0.2
	BENZO(A)PYRENE	**0.14**
	BENZO(K)FLUORANTHENE	0.11
	CHRYSENE	0.2
	FLUORANTHENE	0.24
	NAPHTHALENE	1.4
	PHENANTHRENE	0.92
	ALPHA-BHC	**0.42**
	BETA-BHC	0.3
	GAMMA-BHC (LINDANE)	0.032
	ALUMINUM	7300
	ARSENIC	**42**
	BARIUM	400
	BERYLLIUM	0.98
	CADMIUM	0.71
	CALCIUM	2700
	CHROMIUM	24
	COBALT	6.6
	COPPER	15
	CYANIDE	0.16
	IRON	**37000**
	LEAD	170
	MAGNESIUM	500
	MANGANESE	130
	NICKEL	17
	POTASSIUM	740
	SELENIUM	1.5
	VANADIUM	24
	ZINC	41
SB-33 24-28'	TETRACHLOROETHENE	0.39
	ALUMINUM	6100
	ARSENIC	**9.7**
	BARIUM	70
	BERYLLIUM	0.65
	CADMIUM	0.37
	CALCIUM	700
	CHROMIUM	11
	COBALT	9.5
	COPPER	12
	IRON	**23000**
	LEAD	11
	MAGNESIUM	1400
	MANGANESE	580
	NICKEL	14
	POTASSIUM	570
	VANADIUM	14
	ZINC	54

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
	SB-34 (2/25/03)	
SB-34 0-2'	1,1,1-TRICHLOROETHANE	0.12
	1,2,4-TRICHLOROBENZENE	0.14
	BENZENE	0.28
	ETHYLBENZENE	0.45
	ISOPROPYLBENZENE	0.31
	TETRACHLOROETHENE	0.069
	TOLUENE	1.3
	XYLENES (TOTAL)	2
	2-METHYLNAPHTHALENE	1.7
	DIBENZOFURAN	0.33
	HEXACHLOROBUTADIENE	0.14
	BENZO(A)ANTHRACENE	0.12
	BENZO(A)PYRENE	**0.089**
	CHRYSENE	0.14
	FLUORANTHENE	0.14
	NAPHTHALENE	1.3
	PHENANTHRENE	0.65
	PYRENE	0.16
	ALPHA-BHC	**0.28**
	BETA-BHC	0.28
	ALUMINUM	5900
	ARSENIC	**19**
	BARIUM	**9400**
	BERYLLIUM	0.91
	CADMIUM	1.3
	CALCIUM	23000
	CHROMIUM	15
	COBALT	8.9
	COPPER	16
	CYANIDE	0.30
	IRON	20000
	LEAD	25
	MAGNESIUM	690
	MANGANESE	310
	MERCURY, TOTAL	0.24
	NICKEL	28
	POTASSIUM	600
	SELENIUM	1.6
	SODIUM	340
	VANADIUM	25
	ZINC	40
SB-34 20-24'	1,2,4-TRICHLOROBENZENE	0.16
	1,2-DIBROMO-3-CHLOROPROPANE	0.11
	1,2-DICHLOROBENZENE	0.74
	1,4-DICHLOROBENZENE	2
	2-BUTANONE	0.15
	CHLOROBENZENE	0.17
	METHYL T-BUTYL ETHER	0.052
	TETRACHLOROETHENE	0.081
	VINYL CHLORIDE	0.12
	ALUMINUM	6500
	ARSENIC	**10**
	BARIUM	78
	BERYLLIUM	0.66
	CADMIUM	1.5
	CALCIUM	990
	CHROMIUM	11
	COBALT	9.8
	COPPER	13
	IRON	**27000**
	LEAD	11
	MAGNESIUM	1400
	MANGANESE	650
	NICKEL	15
	POTASSIUM	600
	SELENIUM	1.0
	SODIUM	190
	VANADIUM	14
	ZINC	53

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
	SB-35 (2/25/03)	
SB-35 0-4'	1,2,4-TRICHLOROBENZENE	0.1
	1,2-DIBROMO-3-CHLOROPROPANE	0.12
	1,2-DICHLOROBENZENE	0.4
	1,4-DICHLOROBENZENE	0.78
	CHLOROBENZENE	0.053
	METHYL T-BUTYL ETHER	0.056
	TETRACHLOROETHENE	0.19
	2-METHYLNAPHTHALENE	0.53
	DIBENZOFURAN	0.13
	NAPHTHALENE	0.4
	PHENANTHRENE	0.25
	ALUMINUM	5800
	ARSENIC	**16**
	BARIUM	130
	BERYLLIUM	0.67
	CADMIUM	1.0
	CALCIUM	4400
	CHROMIUM	16
	COBALT	3.4
	COPPER	8.4
	CYANIDE	0.12
	IRON	18000
	LEAD	3.4
	MAGNESIUM	740
	MANGANESE	69
	NICKEL	9.1
	POTASSIUM	590
	SELENIUM	1.4
	SODIUM	260
	VANADIUM	19
	ZINC	14
SB-35 16-20'	HEXACHLOROBUTADIENE	0.17
	1,2,4-TRICHLOROBENZENE	0.075
	1,2-DIBROMO-3-CHLOROPROPANE	0.062
	1,2-DICHLOROBENZENE	0.29
	1,4-DICHLOROBENZENE	0.56
	CHLOROBENZENE	0.036
	CIS-1,2-DICHLOROETHENE	0.035
	METHYL T-BUTYL ETHER	0.038
	TETRACHLOROETHENE	0.14
	TRICHLOROETHENE	0.058
	ALUMINUM	6600
	ARSENIC	**11**
	BARIUM	94
	BERYLLIUM	0.72
	CADMIUM	1.5
	CALCIUM	1000
	CHROMIUM	12
	COBALT	7.9
	COPPER	14
	CYANIDE	0.24
	IRON	**28000**
	LEAD	11
	MAGNESIUM	1300
	MANGANESE	540
	NICKEL	14
	POTASSIUM	560
	SELENIUM	0.92
	SODIUM	200
	VANADIUM	15
	ZINC	55

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
	SB-36 (3/10/03)	
SB-36 0-2'	1,2-DICHLOROBENZENE	0.0032
	ACETONE	0.036
	2-METHYLNAPHTHALENE	0.72
	CARBAZOLE	1.8
	DIBENZOFURAN	0.9
	DIMETHYLPHTHALATE	0.24
	ACENAPHTHENE	1.4
	ANTHRACENE	3.4
	BENZO(A)ANTHRACENE	**5.3**
	BENZO(A)PYRENE	**4.3**
	BENZO(B)FLUORANTHENE	**5.1**
	BENZO(G,H,I)PERYLENE	2.3
	BENZO(K)FLUORANTHENE	1.9
	CHRYSENE	4.3
	DIBENZO(A,H)ANTHRACENE	**0.67**
	FLUORANTHENE	16
	FLUORENE	1.4
	INDENO(1,2,3-CD)PYRENE	**2.3**
	NAPHTHALENE	1.2
	PHENANTHRENE	13
	PYRENE	10
	ALPHA-BHC	0.005
	ENDRIN	0.014
	GAMMA-BHC (LINDANE)	0.0021
	AROCLOR-1254	0.050
	ALUMINUM	5800
	ARSENIC	**47**
	BARIUM	360
	BERYLLIUM	0.73
	CALCIUM	3700
	CHROMIUM	**75**
	COBALT	4.9
	COPPER	28
	CYANIDE	0.15
	IRON	20000
	LEAD	13
	MAGNESIUM	650
	MANGANESE	140
	MERCURY, TOTAL	0.15
	NICKEL	55
	POTASSIUM	790
	SELENIUM	2.0
	SILVER	1.1
	SODIUM	760
	VANADIUM	95
	ZINC	22
SB-36 16-20'	ALUMINUM	9500
	ARSENIC	**5.6**
	BARIUM	92
	BERYLLIUM	0.65
	CALCIUM	1600
	CHROMIUM	13
	COBALT	9.5
	COPPER	12
	IRON	**25000**
	LEAD	12
	MAGNESIUM	1700
	MANGANESE	680
	NICKEL	13
	POTASSIUM	650
	SELENIUM	1.7
	SODIUM	7300
	VANADIUM	100
	ZINC	53

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
	SB-37 (3/10/03)	
SB-37 0-4'	ACETONE	0.091
	2-METHYLNAPHTHALENE	0.86
	DIBENZOFURAN	0.23
	ANTHRACENE	0.086
	BENZO(A)ANTHRACENE	0.15
	BENZO(A)PYRENE	**0.11**
	BENZO(B)FLUORANTHENE	0.12
	BENZO(K)FLUORANTHENE	0.055
	CHRYSENE	0.16
	FLUORANTHENE	0.27
	NAPHTHALENE	0.64
	PHENANTHRENE	0.56
	PYRENE	0.23
	4,4-DDT	0.0056
	ALPHA-BHC	0.016
	AROCLOR-1254	0.056
	ALUMINUM	3800
	ARSENIC	**14**
	BARIUM	760
	BERYLLIUM	0.36
	CALCIUM	850
	CHROMIUM	24
	COBALT	1.5
	COPPER	16
	CYANIDE	0.89
	IRON	**76000**
	LEAD	30
	MAGNESIUM	140
	MANGANESE	54
	MERCURY, TOTAL	0.64
	NICKEL	1.4
	POTASSIUM	1000
	SELENIUM	3.7
	SODIUM	540
	THALLIUM	2.5
	VANADIUM	220
	ZINC	29
SB-37 12-16'	HEXACHLOROBUTADIENE	0.095
	1,2,4-TRICHLOROBENZENE	0.0048
	ACETONE	0.012
	TETRACHLOROETHENE	0.0036
	GAMMA-BHC (LINDANE)	0.0029
	ALUMINUM	6100
	ARSENIC	**8.8**
	BARIUM	69
	BERYLLIUM	0.37
	CALCIUM	1300
	CHROMIUM	12
	COBALT	5.6
	COPPER	10
	IRON	**27000**
	LEAD	9.1
	MAGNESIUM	1300
	MANGANESE	220
	NICKEL	10
	POTASSIUM	700
	SELENIUM	1.0
	VANADIUM	16
	ZINC	43

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
	SB-38 (3/10/03)	
SB-38 0-4'	2-BUTANONE	0.0093
	ACETONE	0.052
	CHLOROMETHANE	0.0044
	TETRACHLOROETHENE	0.0035
	ALUMINUM	11000
	ARSENIC	**10**
	BARIUM	160
	BERYLLIUM	0.99
	CADMIUM	0.26
	CALCIUM	2200
	CHROMIUM	14
	COBALT	13
	COPPER	15
	CYANIDE	0.24
	IRON	**32000**
	LEAD	14
	MAGNESIUM	2000
	MANGANESE	1100
	NICKEL	20
	POTASSIUM	840
	SELENIUM	1.6
	VANADIUM	21
	ZINC	67
SB-38 16-20'	ACETONE	0.008
	TETRACHLOROETHENE	0.024
	TRICHLOROETHENE	0.0025
	ALUMINUM	6800
	ARSENIC	**8.8**
	BARIUM	61
	BERYLLIUM	0.66
	CALCIUM	910
	CHROMIUM	11
	COBALT	9.6
	COPPER	11
	CYANIDE	0.14
	IRON	**25000**
	LEAD	10
	MAGNESIUM	1400
	MANGANESE	580
	NICKEL	13
	POTASSIUM	630
	SELENIUM	1.5
	VANADIUM	16
	ZINC	48

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
	SB-39 (3/11/03)	
SB-39 0-4'	ACETONE	0.024
	ALUMINUM	7400
	ARSENIC	**8.5**
	BARIUM	220
	BERYLLIUM	0.88
	CADMIUM	0.64
	CALCIUM	1700
	CHROMIUM	13
	COBALT	12
	COPPER	17
	CYANIDE	0.18
	IRON	**24000**
	LEAD	17
	MAGNESIUM	1500
	MANGANESE	890
	NICKEL	20
	POTASSIUM	750
	SODIUM	200
	VANADIUM	15
	ZINC	77
SB-39 4-8'	ACETONE	0.018
	NAPHTHALENE	1.6
	ALUMINUM	9100
	ARSENIC	**10**
	BARIUM	140
	BERYLLIUM	0.99
	CADMIUM	0.45
	CALCIUM	1900
	CHROMIUM	13
	COBALT	13
	COPPER	16
	CYANIDE	0.18
	IRON	29000
	LEAD	14
	MAGNESIUM	2000
	MANGANESE	1000
	NICKEL	23
	POTASSIUM	680
	SELENIUM	0.94
	SODIUM	220
	VANADIUM	18
	ZINC	70
SB-39 16-20'	NAPHTHALENE	0.48
	ALUMINUM	4800
	ARSENIC	**8.1**
	BARIUM	70
	BERYLLIUM	0.58
	CADMIUM	0.32
	CALCIUM	900
	CHROMIUM	8.8
	COBALT	8.4
	COPPER	10
	IRON	22000
	LEAD	9.2
	MAGNESIUM	1200
	MANGANESE	500
	NICKEL	14
	POTASSIUM	430
	VANADIUM	12
	ZINC	42

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
	SB-40 (3/11/03)	
SB-40 0-4'	1,2,4-TRICHLOROBENZENE	120
	1,2-DICHLOROBENZENE	130
	1,4-DICHLOROBENZENE	**130**
	TETRACHLOROETHENE	**7**
	1,2,4,5-TETRACHLOROBENZENE	4.1
	2-CHLORONAPHTHALENE	2
	HEXACHLOROBENZENE	**41**
	HEXACHLOROBUTADIENE	**330**
	HEXACHLOROETHANE	**40**
	ACENAPHTHENE	4.4
	PHENANTHRENE	0.75
	ALUMINUM	6600
	ANTIMONY	3.9
	ARSENIC	**4.8**
	BARIUM	16
	BERYLLIUM	1.6
	CHROMIUM	22
	COBALT	3.8
	COPPER	15
	CYANIDE	1.0
	IRON	4800
	LEAD	7.6
	MAGNESIUM	2100
	MANGANESE	160
	MERCURY, TOTAL	8.1
	NICKEL	69
	VANADIUM	53
	ZINC	30
SB-40 16-20'	1,2,4-TRICHLOROBENZENE	0.038
	1,2-DICHLOROBENZENE	0.16
	1,4-DICHLOROBENZENE	0.09
	ACETONE	0.031
	TETRACHLOROETHENE	0.0063
	TRICHLOROETHENE	0.0031
	ALUMINUM	5600
	ARSENIC	**8.3**
	BARIUM	72
	BERYLLIUM	0.73
	CADMIUM	0.38
	CALCIUM	940
	CHROMIUM	10
	COBALT	8.3
	COPPER	12
	IRON	22000
	LEAD	9.2
	MAGNESIUM	1100
	MANGANESE	500
	NICKEL	14
	POTASSIUM	550
	VANADIUM	13
	ZINC	43

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
	SB-41 (3/11/03)	
SB-41 0-4'	1,2,4-TRICHLOROBENZENE	0.026
	1,2-DICHLOROBENZENE	0.029
	1,4-DICHLOROBENZENE	0.013
	ACETONE	0.089
	TETRACHLOROETHENE	0.065
	TRICHLOROETHENE	0.028
	HEXACHLOROBENZENE	**79**
	HEXACHLOROBUTADIENE	**7.8**
	BETA-BHC	**1.6**
	ALUMINUM	8600
	ARSENIC	**8.4**
	BARIUM	55
	BERYLLIUM	1.6
	CHROMIUM	7.9
	COBALT	3.0
	COPPER	14
	CYANIDE	1.5
	IRON	5600
	LEAD	8.2
	MAGNESIUM	1700
	MANGANESE	92
	MERCURY, TOTAL	0.40
	NICKEL	63
	VANADIUM	8.8
	ZINC	22
SB-41 16-20'	1,2,4-TRICHLOROBENZENE	0.0096
	1,2-DICHLOROBENZENE	0.01
	1,4-DICHLOROBENZENE	0.01
	ACETONE	0.011
	CIS-1,2-DICHLOROETHENE	0.012
	TETRACHLOROETHENE	0.012
	TRICHLOROETHENE	0.0045
	ALUMINUM	7400
	ARSENIC	**9.6**
	BARIUM	110
	BERYLLIUM	0.79
	CADMIUM	0.42
	CALCIUM	1700
	CHROMIUM	12
	COBALT	12
	COPPER	14
	IRON	**25000**
	LEAD	12
	MAGNESIUM	1600
	MANGANESE	680
	NICKEL	19
	POTASSIUM	690
	VANADIUM	16
	ZINC	54

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
MWDEP-1A and MWDEP-1B Monitoring Well Pair (3/27/03)		
MWDEP-1A-0'-2'	Insufficient Sample Recovery	
MWDEP-1A-10'-12'	1,2,4-TRICHLOROBENZENE	0.0028
	ACETONE	0.019
	CIS-1,2-DICHLOROETHENE	0.0044
	TETRACHLOROETHENE	0.037
	ALUMINUM	7400
	ARSENIC	**8.4**
	BARIUM	240
	BERYLLIUM	0.58
	CALCIUM	4000
	CHROMIUM	13
	COBALT	6.8
	COPPER	15
	IRON	19000
	LEAD	18
	MAGNESIUM	1800
	MANGANESE	440
	NICKEL	14
	POTASSIUM	1200
	SELENIUM	1.0
	VANADIUM	17
	ZINC	33
MWDEP-1A-25'-27'	ACETONE	0.016
	TETRACHLOROETHENE	0.0095
	ALUMINUM	3300
	ARSENIC	**8.1**
	BARIUM	30
	BERYLLIUM	0.36
	CALCIUM	420
	CHROMIUM	5.5
	COBALT	5.3
	COPPER	10
	IRON	22000
	LEAD	6.5
	MAGNESIUM	900
	MANGANESE	540
	NICKEL	9.4
	POTASSIUM	360
	VANADIUM	8.2
	ZINC	30

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
MWDEP-1B-0'-2'	2-BUTANONE	0.0098
	ACETONE	0.044
	ALUMINUM	9200
	ARSENIC	**8.5**
	BARIUM	410
	BERYLLIUM	0.85
	CALCIUM	960
	CHROMIUM	10
	COBALT	8.7
	COPPER	10
	CYANIDE	0.12
	IRON	16000
	LEAD	18
	MAGNESIUM	1500
	MANGANESE	930
	MERCURY, TOTAL	0.14
	NICKEL	14
	POTASSIUM	640
	VANADIUM	16
	ZINC	47
MWDEP-1B-35-37'	ACETONE	0.012
	TETRACHLOROETHENE	1.9
	TRICHLOROETHENE	0.0041
	ALUMINUM	2700
	ARSENIC	**26**
	BARIUM	30
	BERYLLIUM	0.26
	CALCIUM	830
	CHROMIUM	4.6
	COBALT	7.1
	COPPER	11
	IRON	16000
	LEAD	7.9
	MAGNESIUM	690
	MANGANESE	420
	NICKEL	11
	POTASSIUM	490
	VANADIUM	7.1
	ZINC	25

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
MWDEP-2A and MWDEP-2B Monitoring Well Pair (3/27/03)		
MWDEP-2A-0'-2'	Insufficient Sample Recovery	
MWDEP-2A-10'-12'	1,1,1-TRICHLOROETHANE	0.91
	TETRACHLOROETHENE	**17**
	TRICHLOROETHENE	**3.1**
	ALUMINUM	2800
	ARSENIC	**6.2**
	BARIUM	99
	BERYLLIUM	0.55
	CALCIUM	1200
	CHROMIUM	5.2
	COBALT	5.2
	COPPER	11
	IRON	14000
	LEAD	7.9
	MAGNESIUM	800
	MANGANESE	580
	NICKEL	11
	POTASSIUM	300
	SODIUM	200
	VANADIUM	7.8
	ZINC	28
MWDEP-2A-40'-42'	TETRACHLOROETHENE	1
	ALUMINUM	2100
	ARSENIC	**6.4**
	BARIUM	33
	BERYLLIUM	0.33
	CALCIUM	910
	CHROMIUM	4.8
	COBALT	4.2
	COPPER	12
	IRON	12000
	LEAD	10
	MAGNESIUM	720
	MANGANESE	440
	NICKEL	7.1
	POTASSIUM	290
	VANADIUM	6.0
	ZINC	27

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
MWDEP-2B-0'-2'	ACETONE	0.023
	TETRACHLOROETHENE	0.0041
	2-METHYLNAPHTHALENE	0.78
	DIBENZOFURAN	0.17
	BENZO(A)ANTHRACENE	0.13
	BENZO(A)PYRENE	**0.11**
	BENZO(B)FLUORANTHENE	0.21
	BENZO(G,H,I)PERYLENE	0.091
	CHRYSENE	0.15
	FLUORANTHENE	0.24
	NAPHTHALENE	0.57
	PHENANTHRENE	0.37
	PYRENE	0.25
	ALPHA-BHC	0.011
	BETA-BHC	0.017
	ALUMINUM	6400
	ARSENIC	**36**
	BARIUM	300
	BERYLLIUM	0.45
	CALCIUM	1600
	CHROMIUM	11
	COBALT	6.5
	COPPER	22
	CYANIDE	0.076
	IRON	20000
	LEAD	33
	MAGNESIUM	1300
	MANGANESE	370
	MERCURY, TOTAL	0.48
	NICKEL	15
	POTASSIUM	490
	SELENIUM	1.0
	VANADIUM	14
	ZINC	79
MWDEP-2B-25-27'	ACETONE	0.011
	TETRACHLOROETHENE	0.066
	TRICHLOROETHENE	0.0076
	ALPHA-BHC	0.00057
	ALUMINUM	1800
	ARSENIC	**7.6**
	BARIUM	30
	BERYLLIUM	0.30
	CALCIUM	520
	CHROMIUM	4.5
	COBALT	5.0
	COPPER	9.5
	IRON	16000
	LEAD	8.5
	MAGNESIUM	600
	MANGANESE	520
	NICKEL	8.4
	POTASSIUM	190
	VANADIUM	5.7
	ZINC	24

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
MWDEP-3A and MWDEP-3B Monitoring Well Pair (3/28/03 and 3/31/03)		
MWDEP-3A-0'-2'	Insufficient Sample Recovery	
MWDEP-3A-10'-12'	1,1,1-TRICHLOROETHANE	0.0024
	2-BUTANONE	0.0074
	ACETONE	0.03
	TETRACHLOROETHENE	0.03
	TRICHLOROETHENE	0.0024
	ALUMINUM	12000
	ARSENIC	**13**
	BARIUM	68
	BERYLLIUM	0.61
	CALCIUM	1000
	CHROMIUM	15
	COBALT	8.7
	COPPER	20
	IRON	**25000**
	LEAD	11
	MAGNESIUM	2300
	MANGANESE	380
	NICKEL	18
	POTASSIUM	1600
	VANADIUM	23
	ZINC	53
MWDEP-3A-35'-37'	2-BUTANONE	0.0048
	ACETONE	0.014
	TETRACHLOROETHENE	0.027
	ALUMINUM	3000
	ARSENIC	**4.4**
	BARIUM	26
	BERYLLIUM	0.27
	CALCIUM	15000
	CHROMIUM	4.7
	COBALT	2.9
	COPPER	8.6
	IRON	10000
	LEAD	4.7
	MAGNESIUM	960
	MANGANESE	380
	NICKEL	6.9
	POTASSIUM	720
	VANADIUM	7.2
	ZINC	18

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
MWDEP-3B-0'-2'	Insufficient Sample Recovery	
MWDEP-3B-25'-27'	PHENANTHRENE	0.084
	ACETONE	0.015
	TETRACHLOROETHENE	0.012
	ALPHA-BHC	0.001
	BETA-BHC	0.0039
	ENDRIN	0.0008
	ENDRIN KETONE	0.00055
	GAMMA-BHC (LINDANE)	0.00028
	ALUMINUM	3900
	ARSENIC	**7.8**
	BARIUM	36
	BERYLLIUM	0.39
	CALCIUM	760
	CHROMIUM	6.6
	COBALT	5.8
	COPPER	9.6
	IRON	19000
	LEAD	6.9
	MAGNESIUM	900
	MANGANESE	460
	NICKEL	9.9
	POTASSIUM	780
	VANADIUM	9.9
	ZINC	30
MWDEP-3B-40'-42'	1,2,4-TRICHLOROBENZENE	0.0053
	1,2-DICHLOROBENZENE	0.082
	1,3-DICHLOROBENZENE	0.024
	1,4-DICHLOROBENZENE	0.062
	ACETONE	0.017
	CHLOROBENZENE	0.072
	CHLOROFORM	0.0044
	TETRACHLOROETHENE	0.034
	TRICHLOROETHENE	0.0038
	ALPHA-BHC	0.0015
	BETA-BHC	0.003
	DELTA-BHC	0.00047
	GAMMA-BHC (LINDANE)	0.00044
	ALUMINUM	2700
	ARSENIC	**5.7**
	BARIUM	38
	BERYLLIUM	0.58
	CALCIUM	2700
	CHROMIUM	6.4
	COBALT	4.7
	COPPER	32
	IRON	18000
	LEAD	9.3
	MAGNESIUM	860
	MANGANESE	570
	NICKEL	11
	POTASSIUM	320
	SELENIUM	1.0
	VANADIUM	24
	ZINC	37

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
MWDEP-4A and MWDEP-4B Monitoring Well Pair (3/24/03 and 3/25/03)		
MWDEP-4A-0'-2'	Insufficient Sample Recovery	
MWDEP-4A-10'-12'	1,2,4-TRICHLOROBENZENE	0.12
	1,4-DICHLOROBENZENE	1.6
	2-BUTANONE	0.35
	ACETONE	0.76
	BENZENE	0.062
	CARBON DISULFIDE	0.055
	CHLOROBENZENE	0.31
	CHLOROFORM	**0.83**
	CIS-1,2-DICHLOROETHENE	0.078
	ETHYLBENZENE	1
	ISOPROPYLBENZENE	0.1
	METHYLENE CHLORIDE	0.15
	TETRACHLOROETHENE	0.34
	TOLUENE	1.3
	XYLENES (TOTAL)	1.2
	2-METHYLNAPHTHALENE	0.9
	3- & 4-METHYLPHENOL	1.3
	BENZO(G,H,I)PERYLENE	0.22
	BIPHENYL	0.11
	BIS(2-ETHYLHEXYL) PHTHALATE	0.47
	BUTYL BENZYL PHTHALATE	0.56
	CARBAZOLE	0.36
	DIBENZOFURAN	0.25
	PHENANTHRENE	1.9
	ACENAPHTHENE	0.32
	ANTHRACENE	0.49
	BENZO(A)ANTHRACENE	**0.62**
	BENZO(A)PYRENE	**0.47**
	BENZO(B)FLUORANTHENE	0.58
	BENZO(K)FLUORANTHENE	0.28
	CHRYSENE	0.53
	FLUORANTHENE	1.6
	FLUORENE	0.35
	INDENO(1,2,3-CD)PYRENE	0.22
	NAPHTHALENE	0.29
	PYRENE	1.4
	ALPHA-BHC	0.0056
	ALUMINUM	44
	BARIUM	0.43
	IRON	130
	MANGANESE	3.4
	MERCURY, TOTAL	0.37
MWDEP-4A-35'-37'	1,1,2,2-TETRACHLOROETHANE	0.0041
	1,4-DICHLOROBENZENE	0.01
	2-BUTANONE	0.018
	ACETONE	0.06
	CHLOROBENZENE	0.0049
	TETRACHLOROETHENE	0.015
	ALUMINUM	24
	BARIUM	0.29
	CALCIUM	13
	IRON	100
	MANGANESE	5.1

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
MWDEP-4B-0'-2'	1,2,4-TRICHLOROBENZENE	0.004
	ACETONE	0.05
	2-METHYLNAPHTHALENE	0.39
	PHENANTHRENE	0.17
	NAPHTHALENE	0.28
	ALPHA-BHC	0.011
	ALUMINUM	70
	BARIUM	2.8
	IRON	200
	MAGNESIUM	13
	MANGANESE	4.2
MWDEP-4B-10'-12'	1,4-DICHLOROBENZENE	0.013
	2-BUTANONE	0.05
	ACETONE	0.11
	CHLOROBENZENE	0.0062
	ETHYLBENZENE	0.0044
	TOLUENE	0.0077
	XYLENES (TOTAL)	0.018
	2-METHYLNAPHTHALENE	110
	2-METHYLPHENOL	0.38
	3- & 4-METHYLPHENOL	3.6
	ACENAPHTHYLENE	3.6
	BENZO(G,H,I)PERYLENE	**140**
	BIPHENYL	**21**
	CARBAZOLE	**170**
	DIBENZOFURAN	110
	PHENANTHRENE	1100
	PHENOL	11
	ACENAPHTHENE	160
	ANTHRACENE	330
	BENZO(A)ANTHRACENE	**400**
	BENZO(A)PYRENE	**350**
	BENZO(B)FLUORANTHENE	**390**
	BENZO(K)FLUORANTHENE	**150**
	CHRYSENE	**370**
	DIBENZO(A,H)ANTHRACENE	**40**
	FLUORENE	170
	INDENO(1,2,3-CD)PYRENE	**140**
	PYRENE	880
	BETA-BHC	**1.9**
	ALUMINUM	64
	BARIUM	7.3
	CALCIUM	82
	CYANIDE	1.1
	IRON	230
	LEAD	2.4
	MAGNESIUM	21
	MANGANESE	6.1
	MERCURY, TOTAL	0.44

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
MWDEP-5A and MWDEP-5B Monitoring Well Pair (4/2/03 and 4/3/03)		
MWDEP-5A-0'-2'	Insufficient Sample Recovery	
MWDEP-5A-15'-17'	1,2,4-TRICHLOROBENZENE	0.0035
	1,2-DICHLOROBENZENE	0.038
	1,4-DICHLOROBENZENE	0.029
	ACETONE	0.0085
	CHLOROBENZENE	0.0069
	TETRACHLOROETHENE	0.019
	ALUMINUM	7000
	ARSENIC	**4.8**
	BARIUM	83
	BERYLLIUM	0.67
	CALCIUM	400
	CHROMIUM	**38**
	COBALT	6.2
	COPPER	11
	IRON	**23000**
	LEAD	10
	MAGNESIUM	1100
	MANGANESE	430
	NICKEL	14
	POTASSIUM	540
	SODIUM	5300
	VANADIUM	92
	ZINC	43
MWDEP-5A-25'-27'	1,2-DICHLOROBENZENE	0.015
	1,4-DICHLOROBENZENE	0.014
	2-BUTANONE	0.005
	ACETONE	0.015
	BENZENE	0.0046
	CHLOROBENZENE	0.011
	TETRACHLOROETHENE	0.098
	TRICHLOROETHENE	0.01
	ALUMINUM	5400
	ARSENIC	**6.4**
	BARIUM	70
	BERYLLIUM	0.62
	CALCIUM	400
	CHROMIUM	9.3
	COBALT	7.8
	COPPER	8.6
	IRON	21000
	LEAD	8.6
	MAGNESIUM	1000
	MANGANESE	430
	NICKEL	14
	POTASSIUM	500
	SODIUM	4900
	VANADIUM	200
	ZINC	40

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
MWDEP-5B-0'-2'	Insufficient Sample Recovery	
MWDEP-5B-10'-12'	1,2-DICHLOROBENZENE	0.031
	1,4-DICHLOROBENZENE	0.025
	ACETONE	0.011
	CHLOROBENZENE	0.0064
	CIS-1,2-DICHLOROETHENE	0.012
	TETRACHLOROETHENE	0.0094
	ALUMINUM	7400
	ARSENIC	**10**
	BARIUM	84
	BERYLLIUM	0.83
	CALCIUM	880
	CHROMIUM	12
	COBALT	10
	COPPER	14
	IRON	**25000**
	LEAD	14
	MAGNESIUM	1500
	MANGANESE	720
	NICKEL	17
	POTASSIUM	660
	SELENIUM	0.94
	SODIUM	2300
	VANADIUM	49
	ZINC	56
MWDEP-5B-20'-22'	1,2-DICHLOROBENZENE	0.02
	1,4-DICHLOROBENZENE	0.018
	ACETONE	0.0077
	CHLOROBENZENE	0.0053
	TETRACHLOROETHENE	0.015
	ALUMINUM	7600
	ARSENIC	**4.3**
	BARIUM	76
	BERYLLIUM	0.66
	CALCIUM	520
	CHROMIUM	10
	COBALT	8.4
	COPPER	8.7
	IRON	21000
	LEAD	9.3
	MAGNESIUM	1200
	MANGANESE	490
	NICKEL	14
	POTASSIUM	560
	SODIUM	4800
	VANADIUM	25
	ZINC	44

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
MWDEP-6A and MWDEP-6 Monitoring Well Pair (3/25/03 and 3/26/03)		
MWDEP-6A-0'-2'	1,2,4-TRICHLOROBENZENE	0.87
	1,2-DICHLOROBENZENE	0.6
	1,4-DICHLOROBENZENE	0.76
	2-BUTANONE	0.7
	TETRACHLOROETHENE	**6.2**
	TRICHLOROETHENE	0.37
	1,2,4,5-TETRACHLOROBENZENE	3.8
	2-CHLORONAPHTHALENE	3.1
	2-METHYLNAPHTHALENE	0.31
	HEXACHLOROBENZENE	**160**
	HEXACHLOROBUTADIENE	**350**
	HEXACHLOROETHANE	8.7
	PHENANTHRENE	0.15
	ALUMINUM	79
	BARIUM	0.70
	CYANIDE	1.8
	IRON	68
	MERCURY, TOTAL	0.29
MWDEP-6A-20'-22'	1,2,4-TRICHLOROBENZENE	0.15
	1,2-DICHLOROBENZENE	0.29
	1,4-DICHLOROBENZENE	0.68
	2-BUTANONE	0.33
	CHLOROBENZENE	0.078
	CIS-1,2-DICHLOROETHENE	0.79
	TETRACHLOROETHENE	3.7
	TRICHLOROETHENE	0.36
	VINYL CHLORIDE	0.12
	ALUMINUM	68
	BARIUM	0.89
	CALCIUM	10
	IRON	240
	MAGNESIUM	15
	MANGANESE	5.8

Table 4. Analytes Detected in Soil
Marshall Army Chemicals Plant

Sample ID	Analyte	Result (mg/kg)
MWDEP-6B-0'-2'	Insufficient Sample Recovery	
MWDEP-6B-15'-17'	1,1,2,2-TETRACHLOROETHANE	0.0028
	1,2,4-TRICHLOROBENZENE	0.0024
	1,2-DICHLOROBENZENE	0.011
	1,4-DICHLOROBENZENE	0.014
	2-BUTANONE	0.0089
	ACETONE	0.031
	CIS-1,2-DICHLOROETHENE	0.1
	TETRACHLOROETHENE	0.0064
	TRICHLOROETHENE	0.0027
	VINYL CHLORIDE	0.0063
	BETA-BHC	0.0094
	ALUMINUM	9000
	ARSENIC	**8.8**
	BARIUM	180
	BERYLLIUM	0.76
	CALCIUM	920
	CHROMIUM	13
	COBALT	9.0
	COPPER	12
	IRON	**24000**
	LEAD	10
	MAGNESIUM	1600
	MANGANESE	430
	NICKEL	18
	POTASSIUM	1300
	SELENIUM	0.99
	SODIUM	230
	VANADIUM	19
	ZINC	54
MWDEP-6B-25'-27'	1,1,2,2-TETRACHLOROETHANE	0.0032
	1,2-DICHLOROBENZENE	0.016
	1,4-DICHLOROBENZENE	0.026
	ACETONE	0.027
	CHLOROBENZENE	0.016
	CIS-1,2-DICHLOROETHENE	0.053
	TETRACHLOROETHENE	0.12
	TRICHLOROETHENE	0.02
	VINYL CHLORIDE	0.0033
	BETA-BHC	0.01
	ALUMINUM	3800
	ARSENIC	**6.0**
	BARIUM	51
	BERYLLIUM	0.44
	CALCIUM	620
	CHROMIUM	7.7
	COBALT	6.2
	COPPER	7.0
	IRON	18000
	LEAD	6.1
	MAGNESIUM	860
	MANGANESE	350
	NICKEL	11
	POTASSIUM	510
	SODIUM	410
	VANADIUM	10
	ZINC	32

Notes:
mg/kg = milligrams per kilogram
Bold entries indicate concentrations greater than their respective Residential Risk-Based Concentrations.
Highlighted & bolded entries indicate concentrations greater than their respective Industrial Risk-Based Concentrations.
Risk-Based concentrations (RBCs) were obtained from West Virginia Voluntary Remediation and Redevelopment Act (WV VRRA) De Minimis Standard, revised 2002.
This assessment uses the following reference standards for soil RBCs: 4-Methylphenol for 3- & 4-Methylphenol; Chromium VI for Chromium; Mercury & compounds for Mercury; and, Lead (*) for Lead.