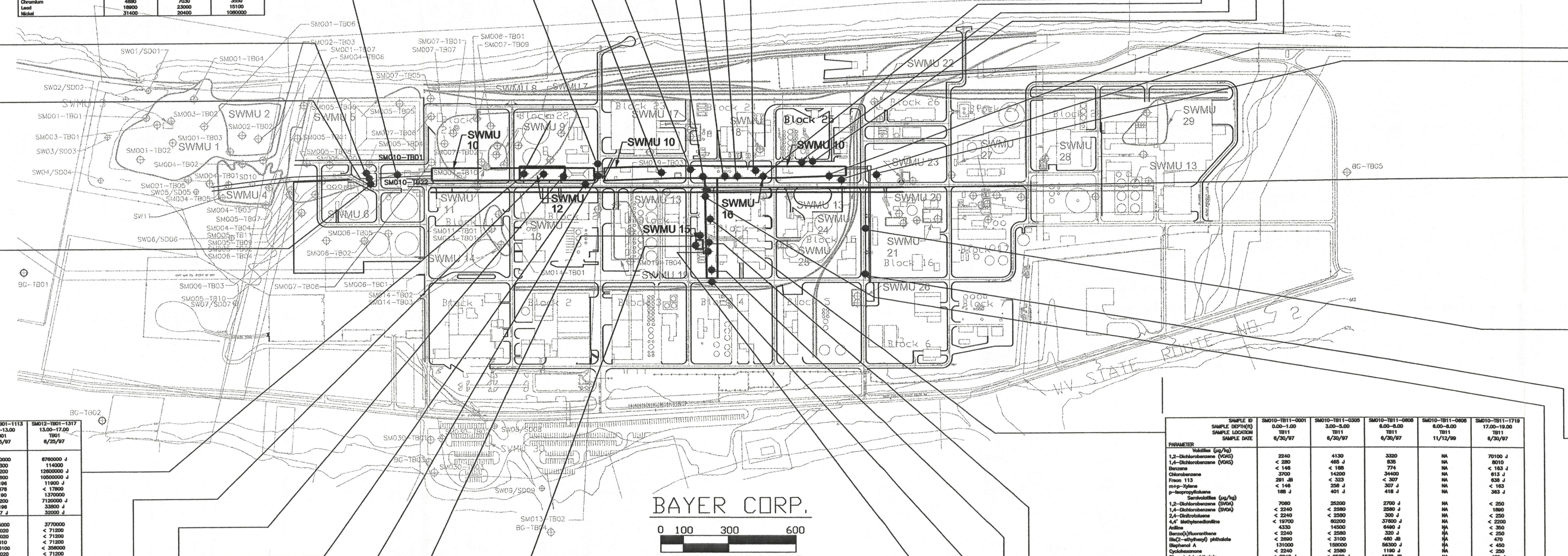
FIGURE 4.5-1
SOIL BORING LOCATIONS WITH ANALYTICAL RESULTS FOR SWMU GROUP D (SWMUs 10, 12, 15 AND 16)
RCRA FACILITY INVESTIGATION

BAYER NEW MARTINSVILLE
NEW MARTINSVILLE, WEST VIRGINIA

IT CORPORATION



SAMPLE ID	SM010-TB07-0001	SM010-TB07-0305	SM010-TB07-0709	SM010-TB07-1113	SM010-TB07-1517
SAMPLE DEPTH(ft)	0.00-1.00	3.00-5.00	7.00-9.00	11.00-13.00	15.00-17.00
SAMPLE LOCATION	TB07	TB07	TB07	TB07	TB07
SAMPLE DATE	7/03/97	7/03/97	7/03/97	7/03/97	7/03/97
PARAMETER					
Volatiles (µg/kg)					
1,2-Dichlorobenzene (VOAS)	< 268	29400	15200	358000	42800
1,4-Dichlorobenzene (VOAS)	< 268	765	386 J	8570	1380
2-Chlorotoluene	< 139	< 153	< 152	499 J	< 164
Benzene	< 139	4000	368 J	52400	11300
Chlorobenzene	< 139	4470	1750	29400	6290
Freon 113	< 268	< 294	< 292	1110 J	< 314
Toluene	< 139	2710	491 J	70300	7920
Trichlorofluoromethane	< 268	< 294	< 292	74200	2890
p-Isopropyltoluene	< 139	812	363 J	6910	377 J
Semivolatiles (µg/kg)					
1,2-Dichlorobenzene (SVOA)	260	25900	13300 J	60600	18900
2,4-Dinitrotoluene	< 210	128000	70800 J	171000	95400
2,6-Dinitrotoluene	< 210	32700	17800 J	35800	21100
4-Chloro-m-cresol	230	< 2350	< 1170 J	< 2560	< 2520
5-Nitro-o-toluidine	< 210	2350	< 1170 J	29400	7870
Aniline	< 300	< 3290	< 1640 J	40200	< 3520
Nitrobenzene	< 210	215000	98000 J	234000	142000
Phenol	1130	< 1410	< 700 J	< 1530	< 1510
m-Nitrotoluene	< 210	2960	1940 J	4040	< 2520
o-Nitrotoluene	< 210	40700	20500 J	42700	26700
p-Nitrotoluene	< 320	32000	17100 J	40700	21500
Metals (µg/kg)					
Cadmium	668	628	< 458	736	909
Chromium	6811	12087	9538	18148	14352
Lead	7268	11615	9122	23752	13931
Nickel	27939	41596	20427	52934	48128

SAMPLE ID	SM010-TB04-0001	SM010-TB04-0305	SM010-TB04-0305	SM010-TB04-1517
SAMPLE DEPTH(ft)	0.00-1.00	3.00-5.00	3.00-5.00	15.00-17.00
SAMPLE LOCATION	TB04	TB04	TB04	TB04
SAMPLE DATE	6/25/97	6/25/97	11/11/99	6/25/97
PARAMETER				
Volatiles (µg/kg)				
1,2-Dichlorobenzene (VOAS)	1940	< 291	NA	< 294
Chlorobenzene	625 J	< 152	NA	271 J
Freon 113	6470	350 J	NA	< 294
Semivolatiles (µg/kg)				
Bisphenol A	25100	R	<180	1200 JB
Di-n-butyl phthalate	< 10800 J	R	120 UB	2780 JB
Diethyl Phthalate	< 10800	R	160 B	260 J
Metals (µg/kg)				
Cadmium	1383	1393	NA	NA
Chromium	10133	19129	NA	NA
Lead	23675	17823	NA	NA
Nickel	74847	30035	NA	NA

SAMPLE ID	SM010-TB01-0001	SM010-TB01-0001	SM010-TB01-0305	SM010-TB01-0305RS	SM010-TB01-0305	SM010-TB01-1113
SAMPLE DEPTH(ft)	0.00-1.00	0.00-1.00	3.00-5.00	3.00-5.00	3.00-5.00	11.00-13.00
SAMPLE LOCATION	TB01	TB01	TB01	TB01	TB01	TB01
SAMPLE DATE	6/18/97	11/12/99	6/18/97	6/18/97	11/12/99	6/18/97
PARAMETER						
Volatiles (µg/kg)						
1,2-Dichlorobenzene	314 J	NA	14900	NA	NA	82300
1,4-Dichlorobenzene	< 291	NA	862	NA	NA	< 3120
Benzene	< 151	NA	< 149	NA	NA	2120 J
Chlorobenzene	< 151	NA	11100	NA	NA	162000
p-Isopropyltoluene	< 151	NA	908	NA	NA	11300
Semivolatiles (µg/kg)						
1,2-Dichlorobenzene	R	460	38900 J	R	150000	46500
1,4-Dichlorobenzene	R	<110	2870 J	R	6000	< 12500
2,4-Dinitrotoluene	R	<110	980 J	R	<1100	< 12500
2,4-Toluenediamine	R	<360	9430 J	R	4900 UJ	3670000
2,6-Dinitrotoluene	R	<130	3380 J	R	<130	< 12500
4,4' Methylenedianiline	R	<1500	8250 J	R	<15000	562000
5-Nitro-o-toluidine	R	<110	850 J	R	<1100	< 12500
Aniline	R	<520	12100 J	R	13000	112000
Bis(2-chloroisopropyl)ether	R	<110	1410 J	R	<1100	< 12500 J
Bis(2-ethylhexyl) phthalate	R	<130	420 JB	R	<1300	< 15000
Bisphenol A	R	<180	65400 J	R	3000	28700
Cyclohexanone	R	<590	1300 J	R	<600	< 12500
Di-n-butyl phthalate	R	140UB	< 230 J	R	<1100	< 12500 J
Nitrobenzene	R	<110	240 J	R	<1100	< 12500
Phenanthrene	R	<120	280 J	R	<1200	< 12500
Phenol	R	<120	1290 J	R	<1200	< 7480
m-Toluidine	R	<94	480 J	R	<960	< 24900
p-Chloroaniline	R	210	22400 J	R	3600	395000
p-Dimethylaminoazobenzene	R	<150	240 J	R	<1600	< 12500
p-Nitrotoluene	R	<110	440 J	R	<1100	< 18700
Metals (µg/kg)						
Cadmium	901	NA	655	NA	NA	< 476
Chromium	18092	NA	11978	NA	NA	7392
Lead	21144	NA	12988	NA	NA	< 476
Nickel	50621	NA	39155	NA	NA	923454

SAMPLE ID	SM010-TB02-0001	SM010-TB02-0305	SM010-TB02-0305RS	SM010-TB02-0507	SM010-TB02-1819
SAMPLE DEPTH(ft)	0.00-1.00	3.00-5.00	3.00-5.00	5.00-7.00	18.00-19.00
SAMPLE LOCATION	TB02	TB02	TB02	TB02	TB02
SAMPLE DATE	6/18/97	6/18/97	7/18/97	6/18/97	7/18/97
PARAMETER					
Volatiles (µg/kg)					
1,2-Dichlorobenzene (VOAS)	< 282	348 J	NA	< 292	1050
Chlorobenzene	< 147	< 151	NA	187 J	529 J
Semivolatiles (µg/kg)					
1,2-Dichlorobenzene (SVOA)	< 450	NA	370	590	1940
2,6-Dinitrotoluene	< 450	NA	260	< 230	< 250
4,4' Methylenedianiline	8170	NA	< 2030	< 2060	< 2160
Bis(2-ethylhexyl) phthalate	< 540	NA	< 280	480 B	560 B
Bisphenol A	< 810	NA	9170	3640	13000
Di-n-butyl phthalate	5780 JB	NA	640 JB	2870 JB	660 JB
p-Chloroaniline	1790	NA	280	< 230	< 250
Metals (µg/kg)					
Cadmium	805	685	NA	NA	806
Chromium	11207	10593	NA	NA	18647
Lead	11101	12286	NA	NA	20056
Nickel	18955	32370	NA	NA	59687

SAMPLE ID	SM010-TB03-0001	SM010-TB03-0001RS	SM010-TB03-0305	SM010-TB03-0810
SAMPLE DEPTH(ft)	0.00-1.00	0.00-1.00	3.00-5.00	8.00-10.00
SAMPLE LOCATION	TB03	TB03	TB03	TB03
SAMPLE DATE	6/18/97	7/18/97	6/18/97	6/18/97
PARAMETER				
Volatiles (µg/kg)				
1,2-Dichlorobenzene (VOAS)	636 J	NA	1010	1060
Chlorobenzene	324 J	NA	2030	1120
Freon 113	< 300	NA	293 J	339 JB
Semivolatiles (µg/kg)				
1,2-Dichlorobenzene (SVOA)	NA	2560	310	1840

SAMPLE ID	SM010-TB19-0001	SM010-TB19-0305	SM010-TB19-1820
SAMPLE DEPTH(ft)	0.00-1.00	3.00-5.00	18.00-20.00
SAMPLE LOCATION	TB19	TB19	TB19
SAMPLE DATE	7/01/97	7/01/97	7/01/97
PARAMETER			
Volatiles (µg/kg)			
Benzene	< 143	< 156	3030
Chlorobenzene	< 143	< 156	278 J
Trichlorofluoromethane	937	< 300	702 J
Semivolatiles (µg/kg)			
Benzo(b)flouranthene	450 J	< 240	< 240
Bis(2-chloroisopropyl)ether	< 440 J	< 240 J	1490 J
Bis(2-ethylhexyl) phthalate	< 530 J	< 290	930 B
Di-n-butyl phthalate	2690 JB	330 J	990 J
Metals (µg/kg)			
Cadmium	751	553	< 470
Chromium	23113	15228	12280
Lead	14499	14076	11363
Nickel	70728	25559	18467

SAMPLE ID	SM010-TB08-0001	SM010-TB08-0305	SM010-TB08-0709	SM010-TB08-1315
SAMPLE DEPTH(ft)	0.00-1.00	3.00-5.00	7.00-9.00	13.00-15.00
SAMPLE LOCATION	TB08	TB08	TB08	TB08
SAMPLE DATE	7/01/97	7/01/97	7/01/97	7/14/97
PARAMETER				
Volatiles (µg/kg)				
1,1-Dichloroethene	< 268	1290	2730	2370
1,2-Dichlorobenzene (VOAS)	344 J	457 J	372 J	834
1,4-Dichlorobenzene (VOAS)	< 268	< 293	< 310	324 J
Benzene	2360	< 152	211 J	162 J
Chlorobenzene	< 140	< 152	335 J	2740
Freon 141b	< 140	2110	5200	3860
Toluene	955	< 152	< 161	< 162
Trichlorofluoromethane	1400	1290	3100	1370
p-Isopropyltoluene	< 140	< 152	< 161	386 J
Semivolatiles (µg/kg)				
1,2-Dichlorobenzene (SVOA)	420 J	< 230 J	< 250 J	860
2,4-Dinitrotoluene	450 J	< 230 J	< 250 J	< 250
4-Chloro-m-cresol	340 J	300 J	< 250 J	< 250
Bis(2-ethylhexyl) phthalate	490 JB	340 JB	570 JB	600 B
Di-n-butyl phthalate	1980 JB	1740 JB	2550 JB	3340 JB
Nitrobenzene	220 J	< 230 J	< 250 J	< 250
Phenol	1280 JB	< 140 J	< 150 J	< 150
p-Chloroaniline	430 J	< 230 J	< 250 J	< 250
Metals (µg/kg)				
Cadmium	865	825	< 477	610
Chromium	18410	16789	17024	16722
Lead	19648	17082	15601	16116
Nickel	43659	33492	23955	26202

SAMPLE ID	SM010-TB23-0001	SM010-TB23-0305	SM010-TB23-0810
SAMPLE DEPTH(ft)	0.00-1.00	3.00-500	8.00-10.00
SAMPLE LOCATION	TB23	TB23	TB23
SAMPLE DATE	11/12/99	11/12/99	11/12/99
PARAMETER			
Volatiles (µg/kg)			
1,2-Dichlorobenzene	22	22	<23
Acetone	450B	380B	<350
Chlorobenzene	18	<11	<11
Methylene Chloride	46B	44B	46B
Semivolatiles (µg/kg)			
1,2-Dichlorobenzene	<100	<99	180
2,4-Dinitrotoluene	530	<99	400
2,6-Dinitrotoluene	360	<120	120
Di-n-butyl phthalate	<100	<99	110UB
Nitrobenzene	140	<99	140
Metals (µg/kg)			
Chromium	2540	4920	3150
Lead	9280	10500	9610
Nickel	5840	6900	9400

SAMPLE ID	SM010-TB22-0001	SM010-TB22-0305	SM010-TB22-0911
SAMPLE DEPTH(ft)	0.00-1.00	3.00-5.00	9.00-11.00
SAMPLE LOCATION	TB22	TB22	TB22
SAMPLE DATE	11/15/99	11/15/99	11/15/99
PARAMETER			
Volatiles (µg/kg)			
1,2-Dichlorobenzene	390	6500	80000
1,4-Dichlorobenzene	64	310	3100
Chlorobenzene	590	490	26000
Methylene Chloride	51B	35B	<540
p-Isopropyltoluene	<24	40	<540
Semivolatiles (µg/kg)			
1,2-Dichlorobenzene	2300	16000	270000
1,4-Dichlorobenzene	320	820	<30000
2,4-Dinitrotoluene	520	200	40000
2,4-Toluenediamine	1400UJ	<3700	12000000J
4,4' Methylenedianiline	3600	<1500	490000
Aniline	2600	1200	170000
Benzo(a)pyrene	<130	<130	250000
Benzo(k)fluoranthene	<140	160	530000
Bis(2-ethylhexyl) phthalate	<130	160	<37000
Bisphenol A	3200	540	<50000
Di-n-butyl phthalate	120UB	120UB	<30000
Phenol	1200	<120	<34000
o,p-Toluidine	140	<84	<23000
p-Chloroaniline	16000	9800	1000000
Metals (µg/kg)			
Chromium	4880	7030	3550
Lead	18900	23000	15100
Nickel	31400	20400	1080000

SAMPLE ID	SM010-TB20-0001	SM010-TB20-0305	SM010-TB20-1617	SM010-TB20-1617RS	SM010-TB20-1820
SAMPLE DEPTH(ft)	0.00-1.00	3.00-5.00	16.00-17.00	16.00-17.00	18.00-20.00
SAMPLE LOCATION	TB20	TB20	TB20	TB20	TB20
SAMPLE DATE	7/01/97	7/01/97	7/01/97	7/17/97	7/01/97
PARAMETER					
Volatiles (µg/kg)					
1,2-Dichlorobenzene	313 J	875	NA	60200	504000
1,4-Dichlorobenzene	< 279	< 300	NA	1540	12000
Acetone	< 962	< 1060	NA	6150	< 2160
Benzene	187 J	899	NA	69100	588000
Chlorobenzene	837	480 J	NA	8450	68300
Tetrachloroethene	< 145	< 156	NA	< 166	336 J
Toluene	458 J	22800	NA	8580	120000
Semivolatiles (µg/kg)					
1,2-Dichlorobenzene	320 J	< 240	< 12800 J	NA	89200
2,4-Dinitrotoluene	450 J	< 240	201000 J	NA	1320000
2,6-Dinitrotoluene	< 220 J	< 240	41100 J	NA	314000
Aniline	730 J	< 340	< 17900 J	NA	< 67200
Bis(2-ethylhexyl) phthalate	310 JB	490 B	< 15400 J	NA	< 57600
Bisphenol A	1560 JB	4150	< 23100 J	NA	< 86300
Di-n-butyl phthalate	1800 JB	520 J	< 12800 J	NA	< 48000 J
Phenol	550 JB	< 140	< 7680 J	NA	< 28800
p-Nitrotoluene	< 330 J	< 360	40300 J	NA	343000
Metals (µg/kg)					
Cadmium	849	833	770	NA	939
Chromium	16704	19134	20747	NA	11835
Lead	12467	17172	15218	NA	11027
Nickel	139236	28019	17639	NA	15286

SAMPLE ID	SM010-TB21-0001	SM010-TB21-0305	SM010-TB21-0709	SM010-TB21-1113	SM010-TB21-1820
SAMPLE DEPTH(ft)	0.00-1.00	3.00-5.00	7.00-9.00	11.00-13.00	18.00-20.00
SAMPLE LOCATION	TB21	TB21	TB21	TB21	TB21
SAMPLE DATE	7/01/97	7/01/97	7/01/97	7/01/97	7/01/97
PARAMETER					
Volatiles (µg/kg)					
1,2,4-Trimethylbenzene	73000	1330	255 J	< 316	< 166
1,2-Dichlorobenzene (VOAS)	1640	< 303	984	177000	34600
1,3,5-Trimethylbenzene	23900	424 J	< 158	< 316	< 166
1,4-Dichlorobenzene (VOAS)	< 315	< 303	< 304	4180	973
Benzene	302 J	< 157	2920	203000	8190
Chlorobenzene	< 164	< 157	583 J	8610	6150
Ethylbenzene	2270	< 157	< 158	< 316	< 166
Isopropylbenzene	2270	< 480	< 462	< 949	< 487
Naphthalene (VOAS)	17600	242 J	< 158	< 316	< 166
Toluene	970	< 157	207 J	5570	551 J
m+p-Xylene	15100	169 J	< 158	< 316	< 166
n-Propylbenzene	8310	< 157	< 158	< 316	< 166
o-Xylene	5790	< 157	< 158	< 316	< 166
p-Isopropyltoluene	1640	< 157	< 158	1770	< 166
sec-Butylbenzene	2900	< 157	< 158	< 316	< 166
Semivolatiles (µg/kg)					
1,2-Dichlorobenzene (SVOA)	820	480	20500	37000 J	15400
1,3-Dichlorobenzene (SVOA)	< 250	< 240	560	< 25300 J	< 2560
1,4-Dichlorobenzene (SVOA)	< 250	< 240	12500	< 25300 J	< 2560
1-Methylnaphthalene	9820	800	< 240	< 25300 J	< 2560
2,4-Dinitrotoluene	700	< 240	< 240	382000 J	356000
2,6-Dinitrotoluene	< 250	< 240	47600	74900 J	83200
2-Methylnaphthalene	17400	1540	310	< 25300 J	< 2560
4,4' Methylenedianiline	< 2220	< 2130	5740	< 223000 J	< 22500
4-Chloro-m-cresol	< 250	< 240	640	< 25300 J	< 2560
4-Nitrophenol	< 250 J	< 240 J	16200 J	< 25300 J	< 2560 J
5-Nitro-o-toluidine	< 250	< 240	11500	< 25300 J	< 2560
Acetophenone	7760	< 310	< 320	< 32900 J	< 3330
Aniline	< 350	< 340	4420	< 35400 J	< 3590
Bis(2-chloroethoxymethane)	< 250	< 240	1100	< 25300 J	< 2560
Bis(2-chloroethyl)ether	< 250	< 240	5540	< 25300 J	< 2560
Bis(2-ethylhexyl) phthalate	980 B	1160 B	370 B	< 30400 J	< 3070
Bisphenol A	1840	3850	5100	< 45600 J	< 4610
Di-n-butyl phthalate	1440 J	1160 J	520 J	< 25300 J	< 2560 J
Di-n-octyl phthalate	350	< 240	1140	< 25300 J	< 2560
Naphthalene (SVOA)	9040	540	< 240	< 25300 J	< 2560
Nitrobenzene	< 250	600	113000	914000 J	175000
Phenol	< 150	< 150	720	< 15200 J	< 1540
m-Nitrotoluene	< 250	< 240	3400	< 25300 J	4790
m-Toluidine	< 500	< 480	1130	< 50600 J	< 5120
o-Nitrotoluene	< 250	< 240	26700	81300 J	45300
p-Chloroaniline	< 250	< 240	780	< 25300 J	< 2560
p-Nitrotoluene	< 380	< 360	< 360	53700 J	53500
Metals (µg/kg)					
Cadmium	< 482	< 470	717	801	770
Chromium	29016	16577	15395	14157	13494
Lead	11615	16665	16276	15028	11999
Nickel	39472	26145	40595	22058	15469

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