

TABLE 3-12
TIER 1 COMPARISON SVOC RESULTS FOR GREATER THAN 10 FT DEPTH
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

Tier 1 Remediation Objectives - Soil											B-501	B-505	B-506	B-507	B-513	B-515
CONSTITUENT	<u>Ingestion</u>			<u>Inhalation</u>			<u>Indoor Inhalation</u>		Soil Component to Groundwater (Class I)	UNITS/DEPTH	B-501-24 (23-24)	B-505-11 (10-11)	B-506-28 (27-28)	B-507-19 (18-19)	B-513-12 (11-12)	B-515-32 (31-32)
	Residential	Commercial	Construction	Residential	Commercial	Construction	Residential	Commercial			7/13/2004	7/14/2004	7/22/2004	7/21/2004	7/12/2004	7/16/2004
1,2,4-Trichlorobenzene	780	20,000	35	3,200	3,200	920	220	980	5	(mg/kg)	<0.148	<4.29	<0.147	<20.6	<0.148	<0.142
2,4,5-Trichlorophenol	7,800	200,000	200,000	---	---	---	---	---	270	(mg/kg)	<0.105	<3.07	<0.105	<14.7	<0.106	<0.101
2,4,6-Trichlorophenol	58	520	11,000	200	390	540	---	---	0.2	(mg/kg)	<0.140	<4.07	<0.139	<19.5	<0.140	<0.134
2,4-Dichlorophenol	230	6,100	610	---	---	---	---	---	1	(mg/kg)	<0.134	<3.91	<0.134	<18.8	<0.135	<0.129
2,4-Dimethylphenol	1,600	41,000	41,000	---	---	---	---	---	9	(mg/kg)	<0.140	<4.10	<0.140	<20.0	<0.140	<0.140
2,4-Dinitrophenol	160	4,100	410	---	---	---	---	---	0.2	(mg/kg)	<0.119	<3.45	<0.118	<16.6	<0.119	<0.114
2,4-Dinitrotoluene	0.9	8.4	180	---	---	---	---	---	0.0008	(mg/kg)	<0.115	<3.36	<0.115	<16.1	<0.116	<0.111
2,6-Dinitrotoluene	0.9	8.4	180	---	---	---	---	---	0.0007	(mg/kg)	<0.120	<3.49	<0.120	<16.7	<0.120	<0.115
2-Chloronaphthalene	6,300	160,000	160,000	---	---	---	---	---	240	(mg/kg)	<0.133	<3.87	<0.133	<18.6	<0.134	<0.128
2-Chlorophenol	390	10,000	10,000	53,000	53,000	53,000	---	---	4	(mg/kg)	<0.141	<4.10	<0.141	<19.7	<0.141	<0.135
2-Methylnaphthalene	2,300	61,000	61,000	---	---	---	83	83	29	(mg/kg)	<0.130	8	<0.130	1400	<0.130	<0.130
3,3-Dichlorobenzidine	1.0	13	280	---	---	---	---	---	0.007	(mg/kg)	<0.095	<2.78	<0.095	<13.3	<0.096	<0.092
4,6-Dinitro-o-cresol	27 ⁽¹⁾	720 ⁽¹⁾	71 ⁽¹⁾	---	---	---	---	---	0.04 ⁽¹⁾	(mg/kg)	<0.120	<3.49	<0.120	<16.7	<0.120	<0.115
4-Bromophenyl phenyl ether	---	---	---	---	---	---	---	---	---	(mg/kg)	<0.102	<2.97	<0.102	<14.3	<0.102	<0.098
4-Chlorophenyl phenyl ether	---	---	---	---	---	---	---	---	---	(mg/kg)	<0.110	<3.20	<0.110	<15.3	<0.110	<0.106
Bis(2-chloroethoxy)methane	---	---	---	---	---	---	---	---	---	(mg/kg)	<0.130	<3.78	<0.129	<18.1	<0.130	<0.125
Bis(2-chloroethyl)ether	0.6	5.0	75.0	0.2	0.5	0.7	0.5	3.7	0.0004	(mg/kg)	<0.157	<4.58	<0.157	<22.0	<0.158	<0.151
Bis(2-chloroisopropyl)ether	3100 ⁽¹⁾	82000 ⁽¹⁾	8200 ⁽¹⁾	1300 ⁽¹⁾	1300 ⁽¹⁾	1300 ⁽¹⁾	---	---	2.4	(mg/kg)	<0.126	<3.68	<0.126	<17.7	<0.127	<0.122
Bis(2-ethylhexyl)phthalate (BEHP)	46	410	4,100	31,000	31,000	31,000	---	---	3,600	(mg/kg)	0.836	<3.78	<0.129	<18.1	<0.130	0.667
Butyl benzyl phthalate	16,000	410,000	410,000	930	930	930	---	---	930	(mg/kg)	<0.112	<3.26	<0.112	<15.7	<0.112	<0.108
Carbazole	32	290	6,200	---	---	---	---	---	0.60	(mg/kg)	<0.140	<3.90	<0.140	<19.0	<0.140	<0.130
Dibenzofuran	310 ⁽¹⁾	8200 ⁽¹⁾	820 ⁽¹⁾	---	---	---	---	---	15 ⁽¹⁾	(mg/kg)	<0.140	<4.10	<0.140	860	<0.140	<0.130
Diethyl phthalate	63,000	1,000,000	1,000,000	2,000	2,000	2,000	---	---	470	(mg/kg)	<0.106	<3.10	<0.106	<14.9	<0.107	<0.102
Dimethyl phthalate	780,000 ⁽¹⁾	1,000,000 ⁽¹⁾	1,000,000 ⁽¹⁾	1,300 ⁽¹⁾	1,300 ⁽¹⁾	1,300 ⁽¹⁾	---	---	380 ⁽¹⁾	(mg/kg)	<0.101	<2.94	<0.101	<14.1	<0.101	<0.097
Di-n-butyl phthalate	7,800	200,000	200,000	2,300	2,300	2,300	---	---	0.0004	(mg/kg)	<0.114	<3.32	<0.114	<16.0	<0.115	<0.110
Di-n-octyl phthalate	1,600	41,000	4,100	10,000	10,000	10,000	---	---	10,000	(mg/kg)	<0.115	<3.36	<0.115	<16.1	<0.116	<0.111
Hexachlorobenzene	0.4	4.0	78.0	1	1.8	2.6	0.25	0.25	2	(mg/kg)	<0.109	<3.16	<0.108	<15.2	<0.109	<0.105
Hexachlorobutadiene	16	410	41	1,000	1,000	180	---	---	2.9	(mg/kg)	<0.172	<5.00	<0.172	<24.0	<0.173	<0.165
Hexachlorocyclopentadiene	550	14,000	14,000	10	16	1.1	5.0	30.0	400	(mg/kg)	<0.113	<3.29	<0.113	<15.8	<0.114	<0.109
Hexachloroethane	78	2,000	2,000	---	---	---	160	160	0.5	(mg/kg)	<0.185	<5.39	<0.185	<25.9	<0.186	<0.178
Isophorone	15,600	410,000	410,000	4,600	4,600	4,600	1,800	1,800	8	(mg/kg)	<0.131	<3.81	<0.131	<18.3	<0.131	<0.126
m & p-Cresol(s)	390 ⁽¹⁾	10,000 ⁽¹⁾	1,000 ⁽¹⁾	---	---	---	---	---	0.24 ⁽¹⁾	(mg/kg)	<0.140	<4.07	<0.139	<19.5	<0.140	<0.134
m-Dichlorobenzene	70 ⁽¹⁾	1,800 ⁽¹⁾	180 ⁽¹⁾	570 ⁽¹⁾	570 ⁽¹⁾	570 ⁽¹⁾	---	---	0.2 ⁽¹⁾	(mg/kg)	<0.186	<5.42	<0.186	<26.0	<0.187	<0.179
m-Nitroaniline	---	---	---	---	---	---	---	---	---	(mg/kg)	<0.091	<2.65	<0.091	<12.7	<0.091	<0.088
Nitrobenzene	39	1,000	1,000	92	140	9.4	140.0	380.0	0.1	(mg/kg)	<0.139	<4.03	<0.138	<19.4	<0.139	<0.133
N-Nitrosodiphenylamine	130	1,200	25,000	---	---	---	---	---	1	(mg/kg)	<0.102	<2.97	<0.102	<14.3	<0.102	<0.098
N-Nitrosodipropylamine	0.09	0.8	18	---	---	---	0.43	3.1	0.00005	(mg/kg)	<0.122	<3.55	<0.122	<17.1	<0.122	<0.117
o-Cresol	3,900	100,000	100,000	---	---	---	---	---	15	(mg/kg)	<0.130	<3.80	<0.130	<18.0	<0.130	<0.130
o-Dichlorobenzene	7,000	180,000	560	560	18,000	310	---	---	17	(mg/kg)	<0.176	<5.13	<0.176	<24.6	<0.177	<0.170
o-Nitroaniline	---	---	---	73 ⁽¹⁾	120 ⁽¹⁾	7.5 ⁽¹⁾	---	---	---	(mg/kg)	<0.101	<2.94	<0.101	<14.1	<0.101	<0.097
o-Nitrophenol	---	---	---	---	---	---	---	---	---	(mg/kg)	<0.124	<3.62	<0.124	<17.4	<0.125	<0.119
p-Chloroaniline	310	8,200	---	---	820	---	---	---	0.7	(mg/kg)	<0.134	<3.91	<0.134	<18.8	<0.135	<0.129
p-Chloro-m-cresol	---	---	---	---	---	---	---	---	---	(mg/kg)	<0.122	<3.55	<0.122	<17.1	<0.122	<0.117
PCP	3	24	52	---	---	---	---	---	0.03	(mg/kg)	<0.732	<21.3	<0.730	<102	<0.735	<0.704
p-Dichlorobenzene	---	---	---	11,000	17,000	340	---	---	2	(mg/kg)	<0.176	<5.13	<0.176	<24.6	<0.177	<0.170
Phenol	47,000	1,000,000	120,000	---	---	---	---	---	100	(mg/kg)	<0.130	<3.70	<0.130	<18.0	<0.130	<0.120
p-Nitroaniline	---	---	---	---	---	---	---	---	---	(mg/kg)	<0.101	<2.94	<0.101	<14.1	<0.101	<0.097
p-Nitrophenol	---	---	---	---	---	---	---	---	---	(mg/kg)	<0.109	<3.16	<0.108	<15.2	<0.109	<0.105

Notes: mg/kg Milligrams per kilogram
(1) Provisional remediation objective provided by IEPA
---- No remediation objective has been established by the IEPA for this constituent for this exposure route
<12 Not detected at the level identified
Analytical result exceeds one or more Tier 1 RO

TABLE 3-12
TIER 1 COMPARISON SVOC RESULTS FOR GREATER THAN 10 FT DEPTH
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	Tier 1 Remediation Objectives - Soil									Soil Component to Groundwater (Class I)	UNITS/DEPTH	B-553	B-556	B-557
	<u>Ingestion</u>			<u>Inhalation</u>			<u>Indoor Inhalation</u>					B-553-32 (31-32)	B-556-28 (27-28)	B-557-12 (11-12)
	Residential	Commercial	Construction	Residential	Commercial	Construction	Residential	Commercial	Construction			7/14/2004 31'-32'	7/20/2004 27'-28'	7/20/2004 11'-12'
1,2,4-Trichlorobenzene	780	20,000	35	3,200	3,200	920	220	980	5	(mg/kg)	<0.145	<0.143	<0.329	
2,4,5-Trichlorophenol	7,800	200,000	200,000	---	---	---	---	---	270	(mg/kg)	<0.104	<0.102	<0.235	
2,4,6-Trichlorophenol	58	520	11,000	200	390	540	---	---	0.2	(mg/kg)	<0.137	<0.135	<0.311	
2,4-Dichlorophenol	230	6,100	610	---	---	---	---	---	1	(mg/kg)	<0.132	<0.130	<0.299	
2,4-Dimethylphenol	1,600	41,000	41,000	---	---	---	---	---	9	(mg/kg)	<0.140	<0.140	<0.310	
2,4-Dinitrophenol	160	4,100	410	---	---	---	---	---	0.2	(mg/kg)	<0.117	<0.115	<0.264	
2,4-Dinitrotoluene	0.9	8.4	180	---	---	---	---	---	0.0008	(mg/kg)	<0.113	<0.112	<0.257	
2,6-Dinitrotoluene	0.9	8.4	180	---	---	---	---	---	0.0007	(mg/kg)	<0.118	<0.116	<0.267	
2-Chloronaphthalene	6,300	160,000	160,000	---	---	---	---	---	240	(mg/kg)	<0.131	<0.129	<0.296	
2-Chlorophenol	390	10,000	10,000	53,000	53,000	53,000	---	---	4	(mg/kg)	<0.138	<0.136	<0.314	
2-Methylnaphthalene	2,300	61,000	61,000	---	---	---	83	83	29	(mg/kg)	<0.130	<0.130	<0.290	
3,3-Dichlorobenzidine	1.0	13	280	---	---	---	---	---	0.007	(mg/kg)	<0.094	<0.092	<0.212	
4,6-Dinitro-o-cresol	27 ⁽¹⁾	720 ⁽¹⁾	71 ⁽¹⁾	---	---	---	---	---	0.04 ⁽¹⁾	(mg/kg)	<0.118	<0.116	<0.267	
4-Bromophenyl phenyl ether	---	---	---	---	---	---	---	---	---	(mg/kg)	<0.100	<0.099	<0.227	
4-Chlorophenyl phenyl ether	---	---	---	---	---	---	---	---	---	(mg/kg)	<0.108	<0.106	<0.245	
Bis(2-chloroethoxy)methane	---	---	---	---	---	---	---	---	---	(mg/kg)	<0.128	<0.125	<0.289	
Bis(2-chloroethyl)ether	0.6	5.0	75.0	0.2	0.5	0.7	0.5	3.7	0.0004	(mg/kg)	<0.155	<0.152	<0.351	
Bis(2-chloroisopropyl)ether	3100 ⁽¹⁾	82000 ⁽¹⁾	8200 ⁽¹⁾	1300 ⁽¹⁾	1300 ⁽¹⁾	1300 ⁽¹⁾	---	---	2.4	(mg/kg)	<0.124	<0.122	<0.282	
Bis(2-ethylhexyl)phthalate (BEHP)	46	410	4,100	31,000	31,000	31,000	---	---	3,600	(mg/kg)	0.3	0.25	<0.289	
Butyl benzyl phthalate	16,000	410,000	410,000	930	930	930	---	---	930	(mg/kg)	<0.110	<0.108	<0.250	
Carbazole	32	290	6,200	---	---	---	---	---	0.60	(mg/kg)	<0.130	<0.130	<0.300	
Dibenzofuran	310 ⁽¹⁾	8200 ⁽¹⁾	820 ⁽¹⁾	---	---	---	---	---	15 ⁽¹⁾	(mg/kg)	<0.140	<0.140	0.54	
Diethyl phthalate	63,000	1,000,000	1,000,000	2,000	2,000	2,000	---	---	470	(mg/kg)	<0.105	<0.103	<0.237	
Dimethyl phthalate	780,000 ⁽¹⁾	1,000,000 ⁽¹⁾	1,000,000 ⁽¹⁾	1,300 ⁽¹⁾	1,300 ⁽¹⁾	1,300 ⁽¹⁾	---	---	380 ⁽¹⁾	(mg/kg)	<0.099	<0.098	<0.225	
Di-n-butyl phthalate	7,800	200,000	200,000	2,300	2,300	2,300	---	---	0.0004	(mg/kg)	<0.112	<0.110	<0.254	
Di-n-octyl phthalate	1,600	41,000	4,100	10,000	10,000	10,000	---	---	10,000	(mg/kg)	<0.113	<0.112	<0.257	
Hexachlorobenzene	0.4	4.0	78.0	1	1.8	2.6	0.25	0.25	2	(mg/kg)	<0.107	<0.105	<0.242	
Hexachlorobutadiene	16	410	41	1,000	1,000	180	---	---	2.9	(mg/kg)	<0.169	<0.166	<0.383	
Hexachlorocyclopentadiene	550	14,000	14,000	10	16	1.1	5.0	30.0	400	(mg/kg)	<0.111	<0.109	<0.252	
Hexachloroethane	78	2,000	2,000	---	---	---	160	160	0.5	(mg/kg)	<0.182	<0.179	<0.413	
Isophorone	15,600	410,000	410,000	4,600	4,600	4,600	1,800	1,800	8	(mg/kg)	<0.129	<0.127	<0.292	
m & p-Cresol(s)	390 ⁽¹⁾	10,000 ⁽¹⁾	1,000 ⁽¹⁾	---	---	---	---	---	0.24 ⁽¹⁾	(mg/kg)	<0.137	<0.135	<0.311	
m-Dichlorobenzene	70 ⁽¹⁾	1,800 ⁽¹⁾	180 ⁽¹⁾	570 ⁽¹⁾	570 ⁽¹⁾	570 ⁽¹⁾	---	---	0.2 ⁽¹⁾	(mg/kg)	<0.183	<0.180	<0.415	
m-Nitroaniline	---	---	---	---	---	---	---	---	---	(mg/kg)	<0.089	<0.088	<0.203	
Nitrobenzene	39	1,000	1,000	92	140	9.4	140.0	380.0	0.1	(mg/kg)	<0.136	<0.134	<0.309	
N-Nitrosodiphenylamine	130	1,200	25,000	---	---	---	---	---	1	(mg/kg)	<0.100	<0.099	<0.227	
N-Nitrosodipropylamine	0.09	0.8	18	---	---	---	0.43	3.1	0.00005	(mg/kg)	<0.120	<0.118	<0.272	
o-Cresol	3,900	100,000	100,000	---	---	---	---	---	15	(mg/kg)	<0.130	<0.130	<0.290	
o-Dichlorobenzene	7,000	180,000	560	560	18,000	310	---	---	17	(mg/kg)	<0.173	<0.171	<0.393	
o-Nitroaniline	---	---	---	73 ⁽¹⁾	120 ⁽¹⁾	7.5 ⁽¹⁾	---	---	---	(mg/kg)	<0.099	<0.098	<0.225	
o-Nitrophenol	---	---	---	---	---	---	---	---	---	(mg/kg)	<0.122	<0.120	<0.277	
p-Chloroaniline	310	8,200	---	---	820	---	---	---	0.7	(mg/kg)	<0.132	<0.130	<0.299	
p-Chloro-m-cresol	---	---	---	---	---	---	---	---	---	(mg/kg)	<0.120	<0.118	<0.272	
PCP	3	24	52	---	---	---	---	---	0.03	(mg/kg)	<0.720	<0.708	<1.63	
p-Dichlorobenzene	---	---	---	11,000	17,000	340	---	---	2	(mg/kg)	<0.173	<0.171	<0.393	
Phenol	47,000	1,000,000	120,000	---	---	---	---	---	100	(mg/kg)	<0.130	<0.120	<0.290	
p-Nitroaniline	---	---	---	---	---	---	---	---	---	(mg/kg)	<0.099	<0.098	<0.225	
p-Nitrophenol	---	---	---	---	---	---	---	---	---	(mg/kg)	<0.107	<0.105	<0.242	

Notes: mg/kg Milligrams per kilogram
(1) Provisional remediation objective provided by IEPA
---- No remediation objective has been established by the IEPA for this constituent for this exposure route
<12 Not detected at the level identified
Analytical result exceeds one or more Tier 1 RO