

**TABLE 5-9  
TIER 1 COMPARISON - BTEX AND PAH RESULTS FOR 3 TO 10 FT DEPTH  
CHAMPAIGN MGP SITE  
CHAMPAIGN, ILLINOIS  
AMERENIP**

Soil	UNITS/ DEPTH	B-501	B-502	B-503	B-504	B-505	B-506	B-507	B-508	B-509	B-510	B-512	B-513	B-514	B-515	B-516	B-550	B-551
		B-501-8 7/13/2004 7'-8'	B-502-7 7/13/2004 6'-7'	B-503-10 7/13/2004 9'-10'	B-504-7 7/13/2004 6'-7'	B-505-6 7/14/2004 5'-6'	B-506-7 7/22/2004 6'-7'	B-507-8 7/21/2004 7'-8'	B-508-9 7/19/2004 8'-9'	B-509-8 7/21/2004 7'-8'	B-510-5 7/12/2004 4'-5'	B-512-8 7/12/2004 7'-8'	B-513-8 7/12/2004 7'-8'	B-514-8 7/22/2004 7'-8'	B-515-7 7/16/2004 6'-7'	B-516-5 7/22/2004 4'-5'	B-550-9 7/20/2004 8'-9'	B-551-10 7/15/2004 9'-10'
Benzene	(ug/kg)	183	10900	534	20800	14500	11200	3510	2080	4.6	4.3	<12.2	<10.1	3100	9030	656	610	1260
Ethylbenzene	(ug/kg)	41	5660	523	145000	79800	46200	22200	33100	3.8	<1.0	<24.4	36	23500	59100	4720	1260	13600
Toluene	(ug/kg)	<24.6	220	300	10900	3800	740	280	575	1.4	1.7	<24.4	<20.2	446	2450	289	55	69
Xylene (total)	(ug/kg)	41	11000	837	140000	69900	33700	16600	24300	12	1.3	<24.4	44	19800	40700	1480	623	5720
Acenaphthene	(ug/kg)	50	16000	1600	590000	540000	170000	53000	51000	9800	<31	0.3	1600	48000	270000	7500	5300	23000
Acenaphthylene	(ug/kg)	240	2700	320	71000	81000	12000	3600	5800	4700	150	<0.163	2000	8800	34000	5000	790	3000
Anthracene	(ug/kg)	180	12000	1400	300000	280000	71000	24000	22000	7200	67	0.15	2800	19000	100000	3800	2600	13000
Benzo(a)anthracene	(ug/kg)	180	8700	630	170000	140000	33000	9500	12000	9400	500	<0.120	1200	11000	65000	7200	1600	9600
Benzo(a)pyrene	(ug/kg)	270	4100	520	130000	140000	35000	12000	10000	8700	510	<0.110	950	13000	88000	16000	1800	12000
Benzo(b)fluoranthene	(ug/kg)	250	18000	630	110000	130000	29000	7900	7900	6800	710	<0.112	820	8900	66000	13000	1400	11000
Benzo(ghi)perylene	(ug/kg)	63	4000	110	<50000	31000	7200	2400	4500	2800	280	<0.138	420	2800	26000	5000	410	3500
Benzo(k)fluoranthene	(ug/kg)	97	5600	240	<43000	45000	7400	2300	3100	2500	220	<0.119	280	2600	25000	4200	410	4200
Chrysene	(ug/kg)	170	19000	650	150000	140000	33000	8800	11000	9000	590	<0.126	1100	11000	74000	8400	1600	10000
Dibenzo(a,h)anthracene	(ug/kg)	<30	1900	45	<44000	10000	2300	720	<3000	<620	74	<0.121	110	850	11000	1300	160	1000
Fluoranthene	(ug/kg)	340	17000	1800	320000	290000	78000	26000	23000	18000	650	<0.120	2100	24000	150000	7600	2600	20000
Fluorene	(ug/kg)	330	20000	1200	410000	400000	90000	35000	30000	13000	48	0.31	4200	36000	150000	5500	4400	15000
Indeno(1,2,3-cd)pyrene	(ug/kg)	64	4700	130	<47000	35000	6000	2300	3500	2400	230	<0.131	430	2700	27000	4500	370	3700
Naphthalene	(ug/kg)	<30	59000	16000	2000000	2300000	790000	170000	140000	<880	33	<0.173	<66	100000	510000	24000	2700	46000
Phenanthrene	(ug/kg)	38	50000	3500	1100000	920000	250000	77000	64000	37000	210	0.644	9300	72000	340000	12000	9600	41000
Pyrene	(ug/kg)	500	25000	1500	440000	400000	110000	37000	33000	25000	1000	0.15	3200	33000	190000	14000	3800	21000

Notes: ug/kg Micrograms 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

Micrograms per  
 Provisional reme  
 No remediation  
 Not detected at  
 Analytical result

**TABLE 5-9  
TIER 1 COMPARISON - BTEX AND PAH RESULTS FOR 3 TO 10 FT DEPTH  
CHAMPAIGN MGP SITE  
CHAMPAIGN, ILLINOIS  
AMERENIP**

Soil	UNITS/ DEPTH	B-553	B-554	B-556	B-557	B-558	B-559	B-560	B-561	B-562	TP-501	TP-503A	TP-507	TP-508	UTB-08B	UTB-08	UTB-10	UTB-11
		B-553-6 7/14/2004 5'-6'	B-554-10 7/15/2004 9'-10'	B-556-6 7/20/2004 5'-6'	B-557-10 7/20/2004 9'-10'	B-558-7 7/19/2004 6'-7'	B-559-8 7/19/2004 7'-8'	B-560-5 7/16/2004 4'-5'	B-561-10 7/15/2004 9'-10'	B-562-10 7/15/2004 9'-10'	TP-501-7 7/8/2004 7'	TP-503A-3.5 7/8/2004 3.5'	TP-507-3.5 7/7/2004 3.5'	TP-508-4 7/8/2004 4'	UTB-08-01 11/28/1990 4'-9'	UTB-08-02 11/28/1990 9'-13'	UTB-10-01 11/30/1990 9'-10'	UTB-11-01 12/3/1990 8'-13'
Benzene	(ug/kg)	4050	765	2770	7.1	52.5	<12.8	12	1250	286	438	12800	13200	6400	<310	<310	<310	7900
Ethylbenzene	(ug/kg)	20800	3910	19900	7.4	66	<25.6	1.9	1380	1590	30600	14600	64100	57000	<310	<310	3200	4300
Toluene	(ug/kg)	811	2700	<206	2	134	<25.6	3.9	110	726	<220	2560	3750	7340	<310	<310	<310	22000
Xylene (total)	(ug/kg)	19300	6120	12200	13.4	221	46	3.9	3540	1660	16600	14900	92600	76000	<310	<310	3100	20000
Acenaphthene	(ug/kg)	280000	77000	64000	320	8100	<150	380	9100	28000	18000	3000	55000	330000	<330	<330	16000	3500
Acenaphthylene	(ug/kg)	27000	7300	4200	130	2400	<160	6100	1600	3500	6800	780	57000	240000	<330	<330	5100	12000
Anthracene	(ug/kg)	170000	29000	28000	180	6800	<140	1200	4800	14000	8100	870	30000	110000	<330	<330	18000	14000
Benzo(a)anthracene	(ug/kg)	120000	13000	12000	140	3200	<120	7200	2500	6100	4700	1500	23000	64000	<330	<330	9900	8400
Benzo(a)pyrene	(ug/kg)	120000	14000	12000	160	3500	<110	25000	2000	6100	5200	2900	21000	50000	<330	<330	5500	4300
Benzo(b)fluoranthene	(ug/kg)	130000	13000	8700	130	2800	<110	20000	1400	4500	2300	1500	12000	56000	<330	<330	5000	8200
Benzo(ghi)perylene	(ug/kg)	29000	2200	5000	54	930	<140	6700	840	1600	1300	1300	7900	13000	<330	<330	2900	<1600
Benzo(k)fluoranthene	(ug/kg)	50000	4700	2400	39	820	<120	7500	590	1500	1600	750	6900	13000	<330	<330	1600	<1600
Chrysene	(ug/kg)	120000	14000	13000	140	3100	<130	9000	2400	6000	5700	1700	27000	66000	<330	<330	10000	7100
Dibenzo(a,h)anthracene	(ug/kg)	9700	790	1300	20	360	<120	1700	<570	<630	1200	<110	<93	9100	<330	<330	580	<1600
Fluoranthene	(ug/kg)	300000	32000	27000	330	7300	<120	7500	5000	14000	20000	2900	89000	300000	<330	<330	17000	18000
Fluorene	(ug/kg)	180000	42000	26000	200	8900	<140	550	6300	18000	13000	750	49000	210000	<330	<330	20000	14000
Indeno(1,2,3-cd)pyrene	(ug/kg)	34000	1900	4300	48	860	<130	6000	<620	1500	1500	1400	7200	14000	<330	<330	2900	<1600
Naphthalene	(ug/kg)	880000	1800	200000	14	<130	<180	2600	23000	39000	18000	9200	240000	710000	<330	<330	87000	100000
Phenanthrene	(ug/kg)	540000	91000	90000	1100	22000	<120	3200	14000	45000	32000	2900	140000	500000	<330	<330	56000	39000
Pyrene	(ug/kg)	340000	42000	40000	500	12000	<120	23000	7400	20000	14000	2700	63000	180000	<330	<330	32000	12000

Notes: ug/kg = micrograms per kilogram  
 (1) ----- remediation objective provided by IEPA  
 ----- remediation objective has been established by the IEPA for this constituent for this exposure route  
 <12 the level identified  
 exceeds one or more Tier 1 RO

Micrograms per kilogram  
 Provisional remediation objective  
 No remediation objective has been established  
 Not detected at the level identified  
 Analytical result exceeds one or more Tier 1 RO

**TABLE 5-9  
TIER 1 COMPARISON - BTEX AND PAH RESULTS FOR 3 TO 10 FT DEPTH  
CHAMPAIGN MGP SITE  
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Soil	UNITS/ DEPTH	UTB-14	UTB-15	UTB-16	UTB-18	UTB-20	UTB-21	UTB-22	UTB-23	UTB-24	UTB-25	UTB-26	UTB-27
		UTB-14-01 12/5/1990 4'-5'	UTB-15-S01 12/13/1991 9'-11'	UTB-16-01 12/6/1990 8'-10'	UTB-18-01 12/7/1990 4.5'-5'	UTB-20-S01 12/11/1991 7'-8'	UTB-21-S01 12/12/1991 3'-8'	UTB-22-S01 12/12/1991 6'-8'	UTB-23-S01 12/14/1991 6'-8'	UTB-24-S01 12/15/1991 6'-8'	UTB-25-S01 12/14/1991 9'-11'	UTB-26-S01 12/15/1991 6'-8'	UTB-27-S01 12/16/1991 6'-8'
CONSTITUENT													
Benzene	(ug/kg)	<310	360	5600	<310	<310	<3100	<310	56000	<3100	2700	580	12000
Ethylbenzene	(ug/kg)	<310	1800	20000	<310	<310	20000	<310	82000	8200	9500	20000	7400
Toluene	(ug/kg)	<310	<310	7200	<310	<310	8800	<310	54000	<3100	4000	<310	22000
Xylene (total)	(ug/kg)	330	1700	60000	<310	<310	<3100	<310	100000	5600	12000	2300	35000
Acenaphthene	(ug/kg)	38000	32000	110000	<490	120	46000	<100	390000	100000	53000	17000	29000
Acenaphthylene	(ug/kg)	<19000	3300	<39000	<490	160	1300	<160	<4000	35000	13000	<1600	11000
Anthracene	(ug/kg)	34000	15000	67000	<490	<0.7	18000	<14	230000	42000	37000	8100	34000
Benzo(a)anthracene	(ug/kg)	24000	8700	48000	<490	66	17000	<86	160000	29000	13000	4300	21000
Benzo(a)pyrene	(ug/kg)	20000	7400	28000	<490	<7.7	12000	<150	250000	640000	6800	4300	14000
Benzo(b)fluoranthene	(ug/kg)	22000	7300	28000	<490	<1	12000	<20	180000	15000	5200	4500	13000
Benzo(ghi)perylene	(ug/kg)	<19000	4800	<39000	<490	<4.7	10000	<94	160000	17000	5600	12000	11000
Benzo(k)fluoranthene	(ug/kg)	<19000	2300	<39000	<490	<0.4	<80	<8	170000	3600	2000	3400	4800
Chrysene	(ug/kg)	26000	9000	44000	<490	<1	11000	<20	250000	18000	8100	4100	17000
Dibenzo(a,h)anthracene	(ug/kg)	<19000	1100	59000	<490	<2.8	<560	<56	<1400	4900	1300	<560	2300
Fluoranthene	(ug/kg)	46000	16000	120000	<490	100	23000	<14	360000	68000	51000	9500	48000
Fluorene	(ug/kg)	38000	18000	100000	<490	<0.6	22000	690	370000	57000	38000	8800	35000
Indeno(1,2,3-cd)pyrene	(ug/kg)	<19000	5100	<39000	<490	<1	8500	<20	50000	17000	5400	3400	15000
Naphthalene	(ug/kg)	22000	120000	590000	<490	<5	190000	<100	2600000	490000	380000	45000	95000
Phenanthrene	(ug/kg)	96000	54000	230000	<490	<5	64000	1500	1000000	56000	68000	27000	110000
Pyrene	(ug/kg)	48000	23000	100000	<490	140	41000	<50	630000	110000	34000	17000	59000

Notes: ug/kg  
 (1) provided by IEPA  
 ----- in established by the IEPA for this constituent for this exposure route  
 <12 d  
 more Tier 1 RO