

TABLE 5-5
TIER 1 COMPARISON - BTEX AND PAH RESULTS FOR 0 TO 3 FT DEPTH
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	UNITS	B-501	B-502	B-503	B-504	B-505	B-506	B-507	B-508	B-509	B-510	B-512
		B-501-2 7/13/2004 1'-2'	B-502-3 7/13/2004 2'-3'	B-503-3 7/13/2004 2'-3'	B-504-3 7/13/2004 2'-3'	B-505-3 7/14/2004 2'-3'	B-506-3 7/22/2004 2'-3'	B-507-1 7/21/2004 0-1'	B-508-3 7/19/2004 2'-3'	B-509-3 7/21/2004 2'-3'	B-510-2 7/12/2004 1'-2'	B-512-3 7/12/2004 2'-3'
Benzene	(ug/kg)	1.9	3.4	13900	87.7	47.7	3820	5	28.2	14.2	31.2	8.3
Ethylbenzene	(ug/kg)	<1.1	2.1	4240	32.1	149	1390	1.1	1.8	4	2.2	1.3
Toluene	(ug/kg)	<1.1	5.5	6280	38.3	31.3	3320	3.9	7.1	11.2	7.6	4.9
Xylene (total)	(ug/kg)	<1.1	6.5	9920	65.3	139	5480	3.2	6.3	11.2	8.1	3.8
Acenaphthene	(ug/kg)	<12	<29	<44000	610	6900	1300	110	390	<120	<2300	330
Acenaphthylene	(ug/kg)	78	34	<49000	150	70000	18000	1000	5400	1200	<2500	1230
Anthracene	(ug/kg)	41	<29	51000	460	15000	4500	510	1700	330	<2200	1740
Benzo(a)anthracene	(ug/kg)	270	110	69000	250	45000	18000	950	5900	1500	2900	2870
Benzo(a)pyrene	(ug/kg)	360	160	67000	190	140000	49000	2000	23000	3300	3200	2940
Benzo(b)fluoranthene	(ug/kg)	490	230	76000	210	120000	56000	1700	19000	3500	4500	4310
Benzo(ghi)perylene	(ug/kg)	210	120	<41000	64	38000	17000	650	7400	1600	<2200	1340
Benzo(k)fluoranthene	(ug/kg)	190	84	<36000	86	33000	16000	530	4500	1000	<1800	1500
Chrysene	(ug/kg)	320	120	62000	240	47000	23000	1100	8100	2000	3600	3230
Dibenzo(a,h)anthracene	(ug/kg)	61	<29	<36000	25	13000	5200	170	1800	410	<1900	430
Fluoranthene	(ug/kg)	440	110	120000	680	37000	18000	1500	8200	2000	3700	7830
Fluorene	(ug/kg)	<12	<29	<43000	430	9900	2800	250	750	120	<2200	1070
Indeno(1,2,3-cd)pyrene	(ug/kg)	240	84	<39000	81	41000	17000	610	6300	1400	<2000	1620
Naphthalene	(ug/kg)	33	120	71000	6800	21000	11000	600	1200	290	<2700	580
Phenanthrene	(ug/kg)	170	78	130000	1100	18000	10000	1800	2900	820	2000	5990
Pyrene	(ug/kg)	440	140	110000	520	96000	30000	2300	16000	3100	5800	6020

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.

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CONSTITUENT	UNITS	B-513	B-514	B-515	B-516	B-550	B-551	B-553	B-554	B-556	B-557	B-558
		B-513-2 7/12/2004	B-514-3 7/22/2004	B-515-2 7/16/2004	B-516-3 7/22/2004	B-550-3 7/20/2004	B-551-3 7/15/2004	B-553-3 7/14/2004	B-554-3 7/15/2004	B-556-3 7/20/2004	B-557-1 7/20/2004	B-558-2 7/19/2004
		1'-2'	2'-3'	1'-2'	2'-3'	2'-3'	2'-3'	2'-3'	2'-3'	2'-3'	0-1'	1'-2'
Benzene	(ug/kg)	7.6	32.6	4.3	5.1	5.8	972	195	180	10.3	5.3	2.3
Ethylbenzene	(ug/kg)	<1.1	17.4	21.3	5.4	13.6	282	200	256	11.5	2.1	4.5
Toluene	(ug/kg)	3.2	10.3	3	4.5	3.8	244	370	211	26.2	3.6	7.2
Xylene (total)	(ug/kg)	1.8	25.4	26.4	6.5	25.9	276	456	624	41.6	5.2	11.8
Acenaphthene	(ug/kg)	52	<1900	1100	<1800	<12000	3700	8500	<3000	1400	170	<450
Acenaphthylene	(ug/kg)	100	2600	1900	40000	<13000	14000	26000	9200	5900	880	<500
Anthracene	(ug/kg)	220	2400	1000	9700	<11000	20000	8400	<2800	4400	620	<420
Benzo(a)anthracene	(ug/kg)	800	4600	2200	42000	<9400	52000	10000	<2400	6400	3600	450
Benzo(a)pyrene	(ug/kg)	820	5900	4000	120000	<8600	68000	55000	8500	18000	5200	500
Benzo(b)fluoranthene	(ug/kg)	1300	7600	4400	130000	<8800	83000	50000	8200	13000	6000	610
Benzo(ghi)perylene	(ug/kg)	310	3800	1300	50000	<11000	28000	26000	8500	6100	2700	<420
Benzo(k)fluoranthene	(ug/kg)	490	2700	1300	36000	<9300	25000	12000	<2400	3700	1900	<360
Chrysene	(ug/kg)	930	4900	2800	62000	<9900	51000	18000	4300	7900	3800	450
Dibenzo(a,h)anthracene	(ug/kg)	120	<1500	350	14000	<9500	9000	5000	<2500	1500	720	<370
Fluoranthene	(ug/kg)	1700	6300	3300	27000	19000	93000	17000	4600	9200	6300	690
Fluorene	(ug/kg)	51	1900	720	4000	12000	7100	7800	<2900	3900	110	<440
Indeno(1,2,3-cd)pyrene	(ug/kg)	400	3400	1200	47000	<10000	33000	21000	4400	5300	2500	<400
Naphthalene	(ug/kg)	52	<2200	1800	10000	<14000	8400	2200	<3500	5300	980	<530
Phenanthrene	(ug/kg)	840	6500	3300	8700	14000	47000	9400	3300	9900	2800	<380
Pyrene	(ug/kg)	1300	8500	5700	67000	21000	76000	27000	8500	18000	6000	650

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CONSTITUENT	UNITS	B-559	B-560	B-561	B-562	CSS-1	CSS-2	CSS-3	CSS-4	CSS-5	TP-503	TP-504
		B-559-3 7/19/2004 2'-3'	B-560-3 7/16/2004 2'-3'	B-561-1 7/15/2004 0-1'	B-562-1 7/15/2004 0-1'	12/18/1990 0-6"	12/18/1990 0-6"	12/18/1990 0-6"	12/18/1990 0-6"	12/19/1990 0-6"	7/8/2004 3'	7/8/2004 3'
Benzene	(ug/kg)	0.7	61.9	4.6	8.7	---	---	---	---	---	14500	10500
Ethylbenzene	(ug/kg)	<1.0	2.3	3.2	3.7	---	---	---	---	---	45600	74000
Toluene	(ug/kg)	<1.0	12.6	4.4	8.6	<310	<310	<310	410	<310	1430	3870
Xylene (total)	(ug/kg)	2	6.7	8.6	9.9	<310	<310	<310	660	<310	42400	91700
Acenaphthene	(ug/kg)	<24	180	<320	76	<5	63	5200	470	<5	150000	15000
Acenaphthylene	(ug/kg)	<24	8400	1000	510	<8	320	1900	3300	<8	130000	28000
Anthracene	(ug/kg)	<24	1300	570	260	59	870	1000	2200	9	90000	14000
Benzo(a)anthracene	(ug/kg)	140	8600	2300	1400	450	3700	3600	9700	99	40000	9600
Benzo(a)pyrene	(ug/kg)	190	36000	4100	2300	390	2900	2800	10000	39	37000	10000
Benzo(b)fluoranthene	(ug/kg)	270	27000	5500	3700	770	3500	4400	13000	150	21000	4800
Benzo(ghi)perylene	(ug/kg)	110	13000	2100	540	400	1900	6300	9900	100	11000	2800
Benzo(k)fluoranthene	(ug/kg)	88	7900	2000	1400	390	1200	1600	4200	140	13000	2500
Chrysene	(ug/kg)	150	11000	3400	1700	480	2900	3200	8100	160	48000	11000
Dibenzo(a,h)anthracene	(ug/kg)	42	4200	610	180	69	580	530	2600	17	8500	2100
Fluoranthene	(ug/kg)	190	11000	4700	2400	820	4700	3300	9900	240	220000	50000
Fluorene	(ug/kg)	<24	980	340	93	44	360	300	400	<0.6	130000	22000
Indeno(1,2,3-cd)pyrene	(ug/kg)	110	12000	2200	640	410	2000	2900	9900	130	11000	2700
Naphthalene	(ug/kg)	37	1900	450	230	<5	110	330	470	<5	590000	83000
Phenanthrene	(ug/kg)	67	3000	2100	860	390	3100	2200	3700	83	340000	72000
Pyrene	(ug/kg)	170	32000	4200	2200	570	4700	5300	15000	250	120000	32000

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