

**TABLE 5-13**  
**TIER 1 COMPARISON - BTEX AND PAH RESULTS FOR GREATER THAN 10 FT DEPTH**  
**CHAMPAIGN MGP SITE**  
**CHAMPAIGN, ILLINOIS**  
**AMERENIP**

CONSTITUENT	UNITS/ DEPTH	B-501 B-501-15 7/13/2004 14'-15'	B-501 B-501-24 7/13/2004 23'-24'	B-502 B-502-12 7/13/2004 11'-12'	B-502 B-502-24 7/21/2004 23'-24'	B-503 B-503-11 7/13/2004 10'-11'	B-503 B-503-19 7/13/2004 18'-19'	B-504 B-504-14 7/13/2004 13'-14'	B-504 B-504-21 7/14/2004 20'-21'	B-504 B-504-28 7/14/2004 27'-28'	B-505 B-505-11 7/14/2004 10'-11'	B-505 B-505-22 7/14/2004 21'-22'	B-505 B-505-28 7/14/2004 27'-28'	B-506 B-506-17 7/22/2004 16'-17'
Benzene	(ug/kg)	16400	1.6	30300	423	223	3000	15100	33100	9.1	5040	1.6	3	444000
Ethylbenzene	(ug/kg)	2420	<0.7	25300	<19.2	372	<106	28500	1100	2	17700	1.5	2.3	122000
Toluene	(ug/kg)	6900	1.6	108000	<19.2	120	835	8240	8760	3.7	720	4.3	2.5	676000
Xylene (total)	(ug/kg)	16900	2	226000	<19.2	458	<106	24000	3460	3.4	11200	4.2	4	549000
Acenaphthene	(ug/kg)	39000	<130	36000	<11	<42	5400	49000	22000	13	13000	<11	20	55000
Acenaphthylene	(ug/kg)	58000	<140	50000	<11	<42	47000	20000	150000	14	14000	12	30	390000
Anthracene	(ug/kg)	130000	<120	64000	<11	<42	12000	34000	110000	22	11000	<11	37	160000
Benzo(a)anthracene	(ug/kg)	67000	<100	54000	<11	<42	31000	17000	59000	19	7500	<11	29	79000
Benzo(a)pyrene	(ug/kg)	68000	<96	48000	<11	<42	82000	16000	66000	19	7000	<11	25	92000
Benzo(b)fluoranthene	(ug/kg)	72000	<99	56000	<11	<42	88000	12000	50000	15	5400	<11	20	73000
Benzo(ghi)perylene	(ug/kg)	22000	<120	13000	<11	<42	23000	4900	15000	<11	<3500	<11	<11	18000
Benzo(k)fluoranthene	(ug/kg)	21000	<100	17000	<11	<42	25000	4000	16000	<11	<3000	<11	<11	22000
Chrysene	(ug/kg)	64000	<110	56000	<11	<42	34000	16000	62000	21	6700	<11	26	72000
Dibenzo(a,h)anthracene	(ug/kg)	7300	<110	5500	<11	<42	5800	1400	4600	<11	<3100	<11	<11	5600
Fluoranthene	(ug/kg)	160000	<100	140000	<11	<42	37000	36000	120000	33	12000	<11	51	170000
Fluorene	(ug/kg)	120000	<120	120000	<11	<42	13000	48000	120000	22	15000	<11	44	200000
Indeno(1,2,3-cd)pyrene	(ug/kg)	24000	<120	17000	<11	<42	21000	4700	15000	<11	<3400	<11	<11	17000
Naphthalene	(ug/kg)	920000	<150	680000	26	<42	7700	230000	330000	160	110000	160	180	2200000
Phenanthrene	(ug/kg)	350000	<110	270000	<11	<42	18000	120000	320000	72	39000	20	130	610000
Pyrene	(ug/kg)	160000	<110	110000	<11	<42	60000	54000	190000	51	20000	11	78	240000

Notes:

- ug/kg Micrograms per kilogram
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**CHAMPAIGN MGP SITE**  
**CHAMPAIGN, ILLINOIS**  
**AMERENIP**

CONSTITUENT	UNITS/ DEPTH	B-506 B-506-28 7/22/2004 27'-28'	B-507 B-507-19 7/21/2004 18'-19'	B-507 B-507-28 7/21/2004 27'-28'	B-508 B-508-11 7/19/2004 10'-11'	B-508 B-508-28 7/19/2004 27'-28'	B-509 B-509-18 7/21/2004 17'-18'	B-509 B-509-28 7/21/2004 27'-28'	B-510 B-510-12 7/12/2004 11'-12'	B-510 B-510-28 7/12/2004 27'-28'	B-512 B-512-11 7/12/2004 10'-11'	B-512 B-512-24 7/12/2004 23'-24'	B-513 B-513-12 7/12/2004 11'-12'
Benzene	(ug/kg)	2.3	659000	6.1	2580	1.4	6250	0.7	1.3	1	0.9	1.2	1.8
Ethylbenzene	(ug/kg)	1.3	141000	3.4	37100	1	11400	<0.8	<0.8	<0.8	<0.9	<0.8	1.5
Toluene	(ug/kg)	3.6	1540000	14.3	220	1.7	550	2	1.8	1.2	1.1	1.2	3.7
Xylene (total)	(ug/kg)	4	1300000	9.1	19000	1.7	6630	2.7	1	1.4	1.8	1.2	3.5
Acenaphthene	(ug/kg)	<130	120000		48000	<11	86	22	<10	<10	180	<10	<130
Acenaphthylene	(ug/kg)	<140	700000		8100	<11	260	110	<10	10	<58	<10	<140
Anthracene	(ug/kg)	<120	410000		24000	<11	91	98	<10	<10	83	<10	<120
Benzo(a)anthracene	(ug/kg)	<100	260000		13000	<11	66	72	<10	<10	<58	<10	<110
Benzo(a)pyrene	(ug/kg)	<96	240000		13000	<11	74	79	<10	<10	<58	<10	<97
Benzo(b)fluoranthene	(ug/kg)	<98	170000		11000	<11	53	58	<10	<10	<58	<10	<99
Benzo(ghi)perylene	(ug/kg)	<120	80000		4900	<11	36	39	<10	<10	<58	<10	<120
Benzo(k)fluoranthene	(ug/kg)	<100	70000		3300	<11	16	17	<10	<10	<58	<10	<100
Chrysene	(ug/kg)	<110	240000		12000	<11	66	72	<10	<10	<58	<10	<110
Dibenzo(a,h)anthracene	(ug/kg)	<110	<15000		<2500	<11	<11	<11	<10	<10	<58	<10	<110
Fluoranthene	(ug/kg)	<100	480000		27000	<11	120	140	<10	<10	66	<10	<110
Fluorene	(ug/kg)	<120	550000		35000	<11	110	90	<10	<10	164	<10	<130
Indeno(1,2,3-cd)pyrene	(ug/kg)	<120	64000		4300	<11	27	28	<10	<10	<58	<10	<120
Naphthalene	(ug/kg)	<150	4600000		190000	30	7900	470	<10	<10	104	<10	<150
Phenanthrene	(ug/kg)	<110	940000		78000	19	300	310	<10	<10	317	<10	<110
Pyrene	(ug/kg)	<110	710000		39000	<11	190	220	<10	<10	87	<10	<110

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**TIER 1 COMPARISON - BTEX AND PAH RESULTS FOR GREATER THAN 10 FT DEPTH**  
**CHAMPAIGN MGP SITE**  
**CHAMPAIGN, ILLINOIS**  
**AMERENIP**

CONSTITUENT	UNITS/ DEPTH	B-513 B-513-24 7/12/2004 23'-24'	B-514 B-514-17 7/22/2004 16'-17'	B-514 B-514-28 7/22/2004 27'-28'	B-515 B-515-19 7/16/2004 18'-19'	B-515 B-515-32 7/16/2004 31'-32'	B-516 B-516-14 7/22/2004 13'-14'	B-516 B-516-24 7/22/2004 23'-24'	B-550 B-550-11 7/20/2004 10'-11'	B-550 B-550-16 7/20/2004 15'-16'	B-550 B-550-28 7/20/2004 27'-28'	B-551 B-551-16 7/15/2004 15'-16'	B-551 B-551-28 7/15/2004 27'-28'	B-553 B-553-15 7/14/2004 14'-15'
Benzene	(ug/kg)	1	333000	0.8	29300	2	5450	0.7	1240	5810	1.1	14.8	2.6	3030
Ethylbenzene	(ug/kg)	<0.8	797000	0.9	5730	1.4	11400	<0.8	4020	1440	<0.8	42	3.3	10100
Toluene	(ug/kg)	1	266000	1.4	35100	2.2	1180	1.1	150	798	1.8	73.6	3.4	16100
Xylene (total)	(ug/kg)	1	721000	1.8	27600	2.4	25300	1.5	1930	1430	1.4	128	5.6	37300
Acenaphthene	(ug/kg)	<31	1500000	<11	3000	<120	1900	<11	36000	50	<11	13	38	16000
Acenaphthylene	(ug/kg)	<31	400000	<11	26000	<140	2800	<11	4700	20	<11	80	<11	36000
Anthracene	(ug/kg)	<31	600000	<11	11000	<120	6000	<11	18000	54	<11	21	37	78000
Benzo(a)anthracene	(ug/kg)	<31	250000	<11	5800	<100	3000	<11	6700	40	<11	27	32	51000
Benzo(a)pyrene	(ug/kg)	<31	290000	<11	6500	<93	3600	<11	7500	34	<11	23	29	53000
Benzo(b)fluoranthene	(ug/kg)	<31	200000	<11	4500	<95	2500	<11	4900	32	<11	20	27	56000
Benzo(ghi)perylene	(ug/kg)	<31	100000	<11	2100	<120	1200	<11	2000	11	<11	<11	13	12000
Benzo(k)fluoranthene	(ug/kg)	<31	59000	<11	1600	<100	850	<11	1400	<11	<11	<11	<11	20000
Chrysene	(ug/kg)	<31	260000	<11	5900	<110	2800	<11	6500	40	<11	26	31	47000
Dibenzo(a,h)anthracene	(ug/kg)	<31	26000	<11	570	<100	400	<11	610	<11	<11	<11	<11	4000
Fluoranthene	(ug/kg)	<31	660000	<11	13000	<100	7300	<11	16000	77	<11	40	58	130000
Fluorene	(ug/kg)	<31	840000	<11	16000	<120	6800	<11	24000	50	<11	19	36	65000
Indeno(1,2,3-cd)pyrene	(ug/kg)	<31	84000	<11	1900	<110	1100	<11	1800	<11	<11	<11	<11	14000
Naphthalene	(ug/kg)	<31	7700000	85	86000	<150	130000	57	35000	260	61	1500	82	520000
Phenanthrene	(ug/kg)	<31	2400000	<11	38000	<100	18000	18	49000	170	21	66	120	220000
Pyrene	(ug/kg)	<31	1000000	<11	20000	<100	9500	12	20000	100	<11	58	76	140000

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**CHAMPAIGN MGP SITE**  
**CHAMPAIGN, ILLINOIS**  
**AMERENIP**

CONSTITUENT		B-553	B-553	B-554	B-554	B-556	B-556	B-557	B-557	B-558	B-558	B-558	B-559	B-559
CONSTITUENT	UNITS/ DEPTH	B-553-24 7/14/2004 23'-24'	B-553-32 7/14/2004 31'-32'	B-554-18 7/15/2004 17'-18'	B-554-32 7/15/2004 31'-32'	B-556-20 7/20/2004 19'-20'	B-556-28 7/20/2004 27'-28'	B-557-12 7/20/2004 11'-12'	B-557-24 7/20/2004 23'-24'	B-558-12 7/19/2004 11'-12'	B-558-18 7/19/2004 17'-18'	B-558-28 7/19/2004 27'-28'	B-559-19 7/19/2004 18'-19'	B-559-28 7/19/2004 27'-28'
Benzene	(ug/kg)	97300	3.5	5620	3.7	3350	2.1	30.8	0.9	9.5	90.5	1.6	1.4	0.9
Ethylbenzene	(ug/kg)	32900	1.5	9020	4.8	4510	2.3	1030	<0.9	5	20.9	1	0.8	<0.7
Toluene	(ug/kg)	164000	4.5	7780	9.5	10400	5	9.9	1.1	2.5	71.3	2.2	2.1	1.3
Xylene (total)	(ug/kg)	155000	3.6	13000	17.8	13900	4.6	532	1.2	52.1	82.1	2.8	2.2	1.3
Acenaphthene	(ug/kg)	100000	<130	99000	<11	12000	<120	6200	23	820	42	12	<11	25
Acenaphthylene	(ug/kg)	660000	<140	230000	<11	52000	<140	1500	<11	320	400	<10	<11	29
Anthracene	(ug/kg)	370000	<120	170000	<11	28000	<120	4200	23	190	19	<10	<11	<11
Benzo(a)anthracene	(ug/kg)	190000	<100	78000	<11	13000	<100	2300	17	140	17	<10	<11	<11
Benzo(a)pyrene	(ug/kg)	190000	<95	86000	<11	17000	<93	1900	14	130	15	<10	<11	<11
Benzo(b)fluoranthene	(ug/kg)	150000	<97	74000	<11	11000	<96	1600	12	100	<11	<10	<11	<11
Benzo(ghi)perylene	(ug/kg)	58000	<120	13000	<11	3000	<120	500	<11	47	<11	<10	<11	<11
Benzo(k)fluoranthene	(ug/kg)	49000	<100	26000	<11	3300	<100	450	<11	32	<11	<10	<11	<11
Chrysene	(ug/kg)	200000	<110	79000	<11	14000	<110	2100	16	140	17	<10	<11	<11
Dibenzo(a,h)anthracene	(ug/kg)	17000	<100	<5100	<11	960	<100	<240	<11	15	<11	<10	<11	<11
Fluoranthene	(ug/kg)	420000	<100	170000	<11	30000	<100	4200	27	430	29	15	<11	<11
Fluorene	(ug/kg)	560000	<120	240000	<11	31000	<120	5300	20	320	62	<10	<11	<11
Indeno(1,2,3-cd)pyrene	(ug/kg)	52000	<110	14000	<11	2800	<110	410	<11	39	<11	<10	<11	<11
Naphthalene	(ug/kg)	2600000	<150	1100000	57	240000	<150	450	53	28	2500	31	13	16
Phenanthrene	(ug/kg)	980000	<110	590000	25	90000	<100	12000	70	2100	69	33	<11	<11
Pyrene	(ug/kg)	590000	<110	240000	11	47000	<100	6400	40	630	44	22	<11	<11

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**CHAMPAIGN MGP SITE**  
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**AMERENIP**

CONSTITUENT	UNITS/ DEPTH	B-560 B-560-13 7/16/2004 12'-13'	B-560 B-560-20 7/16/2004 19'-20'	B-560 B-560-28 7/16/2004 27'-28'	B-561 B-561-13 7/15/2004 12'-13'	B-561 B-561-19 7/15/2004 18'-19'	B-561 B-561-32 7/15/2004 31'-32'	B-562 B-562-14 7/15/2004 13'-14'	B-562 B-562-28 7/15/2004 27'-28'	UTB-01 UTB-01-01 12/4/1990 21'-23'	UTB-01 UTB-01-02 12/4/1990 27'-28'	UTB-03 UTB-03-01 11/29/1990 11'-3.5'	UTB-03 UTB-03-02 11/29/1990 18.5'-23.5'	UTB-10 UTB-10-02 11/28/1990 14'-19'
Benzene	(ug/kg)	86.8	10.4	2.3	204	3.3	1.5	6260	2	680	<310	<310	<310	<310
Ethylbenzene	(ug/kg)	18600	2.1	2.2	1600	3.9	<0.8	58500	1.1	5600	<310	<310	<310	<310
Toluene	(ug/kg)	150	6.1	2.8	<86.6	2.8	1.7	499	4.1	1200	<310	450	<310	<310
Xylene (total)	(ug/kg)	19100	4.5	3.9	2060	5.6	1.7	54300	3.6	6300	<310	<310	<310	<310
Acenaphthene	(ug/kg)	72000	14	65	27000	20	<11	93000	14	78000	<330	940	<330	<330
Acenaphthylene	(ug/kg)	6300	<11	11	3300	<11	<11	12000	<11	34000	<330	390	<330	<330
Anthracene	(ug/kg)	37000	14	65	11000	16	<11	52000	<11	56000	<330	<330	<330	<330
Benzo(a)anthracene	(ug/kg)	17000	19	68	5300	12	<11	26000	<11	30000	<330	<330	<330	<330
Benzo(a)pyrene	(ug/kg)	22000	18	55	5500	<11	<11	22000	<11	24000	<330	<330	<330	<330
Benzo(b)fluoranthene	(ug/kg)	16000	15	51	3900	<11	<11	18000	<11	20000	<330	<330	<330	<330
Benzo(ghi)perylene	(ug/kg)	4800	<11	24	1500	<11	<11	6200	<11	<19000	<330	<330	<330	<330
Benzo(k)fluoranthene	(ug/kg)	5100	<11	12	1200	<11	<11	6000	<11	<19000	<330	<6600	<330	<330
Chrysene	(ug/kg)	18000	19	48	5900	13	<11	26000	<11	34000	<330	<330	<330	<330
Dibenzo(a,h)anthracene	(ug/kg)	1300	<11	<11	430	<11	<11	<3000	<11	<19000	<330	<330	<330	<330
Fluoranthene	(ug/kg)	41000	29	91	9400	20	<11	54000	12	60000	<330	<330	<330	<330
Fluorene	(ug/kg)	44000	<11	59	15000	18	<11	66000	<11	70000	<330	530	<330	<330
Indeno(1,2,3-cd)pyrene	(ug/kg)	4400	<11	16	1300	<11	<11	5200	<11	<19000	<330	<330	<330	<330
Naphthalene	(ug/kg)	290000	57	200	29000	110	<11	320000	41	320000	<330	<330	<330	<330
Phenanthrene	(ug/kg)	120000	50	200	37000	51	<11	170000	37	160000	<330	1200	<330	<330
Pyrene	(ug/kg)	63000	44	140	14000	29	<11	78000	19	74000	<330	<330	<330	<330

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CONSTITUENT		UTB-11	UTB-14	UTB-15	UTB-16	UTB-18	UTB-20	UTB-21	UTB-22	UTB-23	UTB-24	UTB-25	UTB-26	UTB-27
CONSTITUENT	UNITS/ DEPTH	UTB-11-02 12/3/1990 21'-22'	UTB-14-02 12/6/1990 32'-33'	UTB-15-S02 12/13/1991 33'-35'	UTB-16-02 12/6/1990 16.5'-18'	UTB-18-02 12/7/1990 17'-18'	UTB-20-S01 12/11/1991 17'-18'	UTB-21-S02 12/12/1991 20'-23'	UTB-22-S02 12/12/1991 20'-23'	UTB-23-S02 12/14/1991 26'-28'	UTB-24-S02 12/15/1991 21'-23'	UTB-25-S02 12/14/1991 26'-28'	UTB-26-S02 12/15/1991 21'-23'	UTB-27-S02 12/16/1991 21'-23'
Benzene	(ug/kg)	<310	<310	<310	<310	<310	<310	<310	<310	730	610	<310	<310	2600
Ethylbenzene	(ug/kg)	<310	<310	<310	<310	<310	<310	<310	<310	<310	<310	<310	<310	<310
Toluene	(ug/kg)	<310	<310	<310	<310	<310	<310	<310	<310	<310	<310	<310	<310	<310
Xylene (total)	(ug/kg)	<310	<310	<310	<310	<310	<310	<310	<310	<310	<310	<310	<310	<310
Acenaphthene	(ug/kg)	<330	<330	2700	<330	<490	<5	130	<5	28	84	34	<5	<11
Acenaphthylene	(ug/kg)	<330	<330	<8	<330	<490	<8	<8	<8	<8	47	<8	<8	18
Anthracene	(ug/kg)	<330	<330	120	<330	<490	<0.7	<0.7	<0.7	16	74	23	2	<1.4
Benzo(a)anthracene	(ug/kg)	<330	<330	110	<330	<490	<4.3	<4.3	<4.3	35	100	<4.3	<4.3	<29
Benzo(a)pyrene	(ug/kg)	<330	<330	290	<330	520	<7.7	<7.7	<7.7	120	200	270	<7.7	<20
Benzo(b)fluoranthene	(ug/kg)	<330	<330	<1	<330	850	<1	<1	<1	<1	<1	<1	<1	<1.9
Benzo(ghi)perylene	(ug/kg)	<330	<330	65	<330	<490	<4.7	<4.7	<4.7	<4.7	150	47	<4.7	<9.3
Benzo(k)fluoranthene	(ug/kg)	<330	<330	<0.4	<330	<490	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.9
Chrysene	(ug/kg)	<330	<330	170	<330	430	<1	<1	<1	<35	73	<1	22	8
Dibenzo(a,h)anthracene	(ug/kg)	<330	<330	<2.8	<330	<490	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<2.8	<5.7
Fluoranthene	(ug/kg)	<330	<330	500	<330	400	<0.7	<0.7	<0.7	160	340	220	<0.7	<1.4
Fluorene	(ug/kg)	<330	<330	170	<330	<490	<0.6	<0.6	<0.6	<0.6	89	590	<0.6	10
Indeno(1,2,3-cd)pyrene	(ug/kg)	<330	<330	55	<330	<490	<1	<1	<1	<1	63	<1	<1	<1.9
Naphthalene	(ug/kg)	<330	<330	1300	<330	<490	<5	70	<330	130	460	350	15	91
Phenanthrene	(ug/kg)	<330	<330	390	<330	<490	14	47	140	77	270	97	22	30
Pyrene	(ug/kg)	<330	<330	400	<330	350	<2.5	<2.5	<2.5	110	350	190	220	180

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