

**TABLE 5-1
BTEX and PAHs - Less than 3 Feet**

**Former MGP Site
Champaign, Illinois
AmerenIP**

CONSTITUENT	<u>Soil Ingestion</u>			<u>Soil Inhalation</u>			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B-800	B-801	B-802	B-803	B-804	B-805	B-806	B-807
	Residential	Commercial	Construction	Residential	Commercial	Construction				B800 (2.0-3.0)	B801 (2.0-3.0 ft)	B802 (2.0-3.0 ft)	B803 (2.0-3.0 ft)	B804 (1.5-2.5 ft)	B805(1.0-2.0 ft)	B806(2.0-3.0 ft)	B807(2.0-3.0 ft)
										4/14/2008 2.0-3.0	4/8/2008 2.0-3.0'	4/15/2008 2.0-3.0'	5/7/2008 2.0-3.0'	4/8/2008 1.5-2.5 ft	4/9/2008 1.0-2.0 ft	4/8/2008 2.0-3.0 ft	4/8/2008 2.0-3.0 ft
Benzene	12	100	2,300	800	1.6	2.20	0.03	---	(mg/kg)	0.002	<0.0012	0.0037	0.0019	<0.0011	<0.0012	<0.0012	0.0024
Ethylbenzene	7,800	200,000	20,000	400,000	400	20,000	13	---	(mg/kg)	<0.0059	0.0015	0.0022	0.0069	<0.0056	<0.0058	<0.0062	0.0018
Toluene	16,000	410,000	41,000	650,000	650	42	12	---	(mg/kg)	<0.0059	0.0024	0.0049	0.0039	<0.0056	<0.0058	0.002	0.0013
Xylene (total)	16,000	410,000	41,000	410,000	320	5.6	150	---	(mg/kg)	<0.0059	0.0048	0.0048	0.0107	<0.0056	<0.0058	0.002	0.0015
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	<0.107	<0.009	<0.102	0.008	<0.004	<0.004	<0.004	<0.022
Acenaphthylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	24.0 ⁽¹⁾	0.07	(mg/kg)	1.43	0.073	0.835	0.023	0.009	<0.004	<0.004	0.066
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	0.10	0.074	0.452	0.023	<0.004	<0.004	<0.004	0.081
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	1.12	0.216	1.64	0.086	0.033	0.007	0.006	0.316
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	2.42	0.206	2.04	0.105	0.040	0.005	0.005	0.372
Benzo(b)fluoranthene	0.9	8.0	170	----	----	----	5.0	2.10	(mg/kg)	2.5	0.279	2.98	0.131	0.056	0.009	0.007	0.478
Benzo(ghi)perylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	32000 ⁽¹⁾	1.70	(mg/kg)	1.65	0.094	1.33	0.066	0.025	0.005	0.004	0.242
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	0.943	0.103	1.0	0.045	0.020	<0.004	<0.004	0.165
Chrysene	88.0	780	17000	----	----	----	160	2.70	(mg/kg)	1.19	0.236	1.8	0.096	0.038	0.005	0.004	0.361
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	0.495	0.033	0.421	0.017	0.007	<0.004	<0.004	0.063
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	0.876	0.489	3.67	0.173	0.059	0.009	0.007	0.676
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	<0.107	0.025	0.097	0.007	<0.004	<0.004	<0.004	0.030
Indeno(1,2,3-cd)pyrene	0.9	8.0	170	----	----	----	14.0	1.60	(mg/kg)	1.43	0.101	1.22	0.059	0.024	0.004	<0.004	0.215
Naphthalene	1600	41000	4100	170	270	1.80	12.0	0.20	(mg/kg)	<0.107	0.019	0.122	0.034	0.007	<0.004	<0.004	0.024
Phenanthrene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	220 ⁽¹⁾	2.50	(mg/kg)	0.206	0.335	2.46	0.105	0.025	0.004	<0.004	0.459
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	1.31	0.396	4.21	0.171	0.055	0.009	0.007	0.625

⁽¹⁾ Non-TACO or provisional ROs published by the IEPA.

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.0059 Laboratory method detection limit exceeds one or more Tier 1 Remedial Objective for that constituent

mg/kg Milligrams per kilogram

<0.004 Not detected at the detection limit identified.

**TABLE 5-1
BTEX and PAHs - Less than 3 Feet**

**Former MGP Site
Champaign, Illinois
AmerenIP**

CONSTITUENT	Soil Ingestion			Soil Inhalation			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B-807 DUP	B-809	B-811	B-812	B-813	B-814	B-815	B-816
	Residential	Commercial	Construction	Residential	Commercial	Construction				3807 (2.0-3.0 ft) Duq	B809 (2.0-3.0 ft)	B811 (2.0-3.0 ft)	B812 (1.0-2.0 ft)	B813 (2.0-3.0 ft)	B814 (0.0-2.0')	B815 (2.0-3.0 ft)	B816 (1.0-2.0')
										4/8/2008 2.0-3.0 ft	5/8/2008 2.0-3.0 ft	5/5/2008 2.0-3.0 ft	5/5/2008 1.0-2.0 ft	4/7/2008 2.0-3.0 ft	4/1/2008 0.0-2.0'	4/7/2008 2.0-3.0 ft	4/1/2008 1.0-2.0'
Benzene	12	100	2,300	800	1.6	2.20	0.03	---	(mg/kg)	0.0012	0.0016	0.0036	<0.0011	<0.0012	<0.0019	<0.0011	<0.0015
Ethylbenzene	7,800	200,000	20,000	400,000	400	20,000	13	---	(mg/kg)	<0.0059	<0.0075	0.0022	<0.0057	<0.0058	<0.0093	<0.0055	0.0027
Toluene	16,000	410,000	41,000	650,000	650	42	12	---	(mg/kg)	<0.0059	0.0028	0.0073	0.0014	<0.0058	<0.0093	<0.0055	0.0034
Xylene (total)	16,000	410,000	41,000	410,000	320	5.6	150	---	(mg/kg)	<0.0059	0.0062	0.0076	<0.0057	<0.0058	<0.0093	<0.0055	0.0022
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	<0.008	0.153	<0.004	<0.005	<0.041	<0.063	<0.004	<0.009
Acenaphthylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	24.0 ⁽¹⁾	0.07	(mg/kg)	0.012	0.061	0.012	<0.005	0.126	0.823	<0.004	0.086
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	<0.008	0.157	0.020	<0.005	0.071	0.188	<0.004	0.031
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	0.055	1.11	0.073	0.008	0.296	0.770	<0.004	0.086
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	0.061	2.84	0.083	0.008	0.32	1.09	<0.004	0.108
Benzo(b)fluoranthene	0.9	8.0	170	----	----	----	5.0	2.10	(mg/kg)	0.082	2.78	0.102	0.011	0.472	1.55	<0.004	0.157
Benzo(ghi)perylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	32000 ⁽¹⁾	1.70	(mg/kg)	0.037	2.26	0.047	0.007	0.235	1.04	<0.004	0.124
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	0.031	0.907	0.035	<0.005	0.146	0.491	<0.004	0.051
Chrysene	88.0	780	17000	----	----	----	160	2.70	(mg/kg)	0.057	1.24	0.08	0.006	0.393	1.08	<0.004	0.121
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	0.014	0.551	0.014	<0.005	0.058	0.244	<0.004	0.028
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	0.084	1.4	0.127	0.007	0.702	1.15	<0.004	0.139
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	<0.008	0.049	0.005	<0.005	<0.041	0.081	<0.004	0.009
Indeno(1,2,3-cd)pyrene	0.9	8.0	170	----	----	----	14.0	1.60	(mg/kg)	0.035	2.03	0.046	0.005	0.196	0.828	<0.004	0.098
Naphthalene	1600	41000	4100	170	270	1.80	12.0	0.20	(mg/kg)	0.008	0.136	0.004	<0.005	<0.041	0.077	<0.004	0.014
Phenanthrene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	220 ⁽¹⁾	2.50	(mg/kg)	0.034	0.716	0.055	<0.005	0.497	0.549	<0.004	0.088
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	0.078	1.34	0.105	0.008	0.663	1.57	<0.004	0.175

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---- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.0059 Laboratory method detection limit exceeds one or more Tier 1 Remedial Objective for that constituent

mg/kg Milligrams per kilogram

<0.004 Not detected at the detection limit identified.

**TABLE 5-1
BTEX and PAHs - Less than 3 Feet**

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CONSTITUENT	<i>Soil Ingestion</i>			<i>Soil Inhalation</i>			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B-817	B-818	B-819	B-820	B-821	B-822	B-824	B-825
	Residential	Commercial	Construction	Residential	Commercial	Construction				B817 (2.0-3.0 ft)	B818 (2.0-3.0')	B819 (2.0-3.0 ft)	B820(1.0-2.0 ft)	B821(0.5-3.0 ft)	B822 (1.0-3.0')	B824 (1.0-3.0')	B825 (2.0-3.0')
	4/7/2008	4/1/2008	4/7/2008	4/4/2008	4/1/2008	4/4/2008				2.0-3.0 ft	2.0-3.0'	2.0-3.0 ft	1.0-2.0 ft	(0.5-3.0 ft)	1.0-3.0'	1.0-3.0'	2.0-3.0'
Benzene	12	100	2,300	800	1.6	2.20	0.03	---	(mg/kg)	<0.0011	0.0183	<0.0011	0.0013	0.0017	<0.0012	<0.0011	<0.0012
Ethylbenzene	7,800	200,000	20,000	400,000	400	20,000	13	---	(mg/kg)	<0.0057	<0.0063	<0.0056	<0.006	<0.0046	<0.0058	<0.0055	<0.0059
Toluene	16,000	410,000	41,000	650,000	650	42	12	---	(mg/kg)	<0.0057	0.0025	<0.0056	<0.006	0.0021	<0.0058	<0.0055	<0.0059
Xylene (total)	16,000	410,000	41,000	410,000	320	5.6	150	---	(mg/kg)	<0.0057	<0.0063	<0.0056	<0.006	<0.0046	<0.0058	0.0013	0.0019
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	<0.004	<0.422	<0.008	<0.004	<0.042	<0.004	<0.042	0.010
Acenaphthylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	24.0 ⁽¹⁾	0.07	(mg/kg)	0.039	6.48	0.015	0.011	0.140	0.188	0.115	0.040
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	0.006	0.711	0.009	<0.004	0.198	0.011	0.041	0.038
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	0.007	4.13	0.069	0.008	0.220	0.016	0.208	0.029
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	0.024	11.2	0.081	0.006	0.229	0.026	0.199	0.018
Benzo(b)fluoranthene	0.9	8.0	170	----	----	----	5.0	2.10	(mg/kg)	0.021	9.29	0.103	0.017	0.106	0.052	0.193	0.014
Benzo(ghi)perylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	32000 ⁽¹⁾	1.70	(mg/kg)	0.042	8.03	0.058	0.012	0.098	0.051	0.141	0.006
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	0.006	2.70	0.039	0.006	0.130	0.015	0.204	0.015
Chrysene	88.0	780	17000	----	----	----	160	2.70	(mg/kg)	0.004	4.95	0.076	0.008	0.197	0.016	0.218	0.025
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	0.008	1.83	0.015	<0.004	<0.042	0.014	0.049	<0.004
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	0.007	3.18	0.106	0.012	0.362	0.017	0.314	0.066
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	<0.004	0.39	<0.008	<0.004	0.120	0.007	<0.042	0.048
Indeno(1,2,3-cd)pyrene	0.9	8.0	170	----	----	----	14.0	1.60	(mg/kg)	0.03	5.95	0.051	0.010	0.077	0.043	0.132	0.007
Naphthalene	1600	41000	4100	170	270	1.80	12.0	0.20	(mg/kg)	<0.004	0.815	0.008	0.005	2.22	0.010	<0.042	0.109
Phenanthrene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	220 ⁽¹⁾	2.50	(mg/kg)	<0.004	0.881	0.042	0.007	0.588	0.011	0.116	0.116
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	0.014	6.85	0.106	0.014	0.535	0.027	0.303	0.053

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---- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.0059 Laboratory method detection limit exceeds one or more Tier 1 Remedial Objective for that constituent

mg/kg Milligrams per kilogram

<0.004 Not detected at the detection limit identified.

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CONSTITUENT	<i>Soil Ingestion</i>			<i>Soil Inhalation</i>			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B-826	B-827	B-828	B-828 DUP	B-829	B-830	B-831	B-832
	Residential	Commercial	Construction	Residential	Commercial	Construction				B826 (2.0-3.0')	B827 (2.0-3.0')	B828 (2.0-3.0')	B828 (2.0-3.0') DUP	B829 (2.0-3.0')	B830 (2.0-3.0')	B831 (1.0-3.0')	B832 (2.0-3.0')
										4/3/2008	4/2/2008	4/3/2008	4/3/2008	4/2/2008	4/3/2008	4/3/2008	4/4/2008
Benzene	12	100	2,300	800	1.6	2.20	0.03	---	(mg/kg)	<0.0011	<0.0016	0.0014	0.0021	0.0533	<0.0013	0.0021	0.0062
Ethylbenzene	7,800	200,000	20,000	400,000	400	20,000	13	---	(mg/kg)	<0.0056	<0.008	<0.0063	<0.0065	0.0013	<0.0064	<0.0067	<0.0069
Toluene	16,000	410,000	41,000	650,000	650	42	12	---	(mg/kg)	<0.0056	<0.008	<0.0063	<0.0065	0.0028	<0.0064	<0.0067	0.0015
Xylene (total)	16,000	410,000	41,000	410,000	320	5.6	150	---	(mg/kg)	<0.0056	<0.008	0.0018	0.0016	0.006	<0.0064	<0.0067	<0.0069
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	<0.004	<0.004	<0.004	<0.004	0.189	0.032	0.285	0.076
Acenaphthylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	24.0 ⁽¹⁾	0.07	(mg/kg)	<0.004	0.010	<0.004	<0.004	0.318	0.075	4.24	0.332
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	<0.004	0.009	<0.004	<0.004	0.331	0.086	4.99	0.718
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	<0.004	0.033	0.014	0.012	2.16	0.429	10.7	1.29
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	<0.004	0.026	0.011	0.012	2.25	0.500	8.77	1.26
Benzo(b)fluoranthene	0.9	8.0	170	----	----	----	5.0	2.10	(mg/kg)	<0.004	0.026	0.017	0.018	2.80	0.660	11.80	1.59
Benzo(ghi)perylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	32000 ⁽¹⁾	1.70	(mg/kg)	<0.004	0.016	0.009	0.010	1.29	0.342	4.05	0.637
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	<0.004	0.028	0.005	0.006	1.11	0.251	4.51	0.585
Chrysene	88.0	780	17000	----	----	----	160	2.70	(mg/kg)	<0.004	0.034	0.012	0.012	2.12	0.487	11.2	1.19
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	<0.004	0.007	<0.004	<0.004	0.422	0.105	1.55	0.230
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	<0.004	0.054	0.028	0.017	2.92	0.771	25.8	2.44
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	<0.004	<0.004	<0.004	<0.004	0.172	0.028	1.33	0.338
Indeno(1,2,3-cd)pyrene	0.9	8.0	170	----	----	----	14.0	1.60	(mg/kg)	<0.004	0.016	0.008	0.009	1.28	0.316	4.54	0.629
Naphthalene	1600	41000	4100	170	270	1.80	12.0	0.20	(mg/kg)	<0.004	<0.004	<0.004	0.004	0.074	0.037	0.466	1.12
Phenanthrene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	220 ⁽¹⁾	2.50	(mg/kg)	<0.004	0.035	0.010	0.008	1.16	0.338	18.7	1.90
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	<0.004	0.049	0.023	0.015	2.69	0.638	19.2	1.95

⁽¹⁾ Non-TACO or provisional ROs published by the IEPA.

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.0059

Laboratory method detection limit exceeds one or more Tier 1 Remedial Objective for that constituent

mg/kg Milligrams per kilogram

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CONSTITUENT	Soil Ingestion			Soil Inhalation			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B-833	B-834	B-837	B-838	B-839	B-840	B-843	B-844
	Residential	Commercial	Construction	Residential	Commercial	Construction				B833 (2.0-3.0') 4/2/2008	B834 (1.0-2.0 ft) 4/7/2008	B837 (0.5-2.0 ft) 4/14/2008	B838 (1.0-2.0 ft) 4/4/2008	B839 (2.0-3.0 ft) 4/14/2008	B840 (1.0-2.0 ft) 4/15/2008	B843 (2.0-3.0 ft) 5/6/2008	B844 (1.0-2.0 ft) 5/6/2008
Benzene	12	100	2,300	800	1.6	2.20	0.03	--	(mg/kg)	0.017	<0.001	0.0013	<0.0015	<0.0014	0.002	<0.0011	<0.0012
Ethylbenzene	7,800	200,000	20,000	400,000	400	20,000	13	--	(mg/kg)	<0.006	<0.005	<0.0054	<0.0073	<0.0071	<0.0067	<0.0055	<0.0060
Toluene	16,000	410,000	41,000	650,000	650	42	12	--	(mg/kg)	0.0025	<0.005	0.0015	<0.0073	<0.0071	<0.0067	<0.0055	<0.0060
Xylene (total)	16,000	410,000	41,000	410,000	320	5.6	150	--	(mg/kg)	0.0021	0.0011	0.0011	<0.0073	<0.0071	<0.0067	<0.0055	<0.0060
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	<0.402	0.005	<0.021	<0.004	<0.004	<0.005	<0.004	<0.009
Acenaphthylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	24.0 ⁽¹⁾	0.07	(mg/kg)	4.15	0.004	0.137	0.019	<0.004	0.062	<0.004	0.035
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	1.59	0.007	0.108	0.039	<0.004	0.018	<0.004	0.026
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	5.10	0.017	0.664	0.113	0.005	0.134	<0.004	0.119
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	8.10	0.012	0.785	0.094	<0.004	0.169	<0.004	0.135
Benzo(b)fluoranthene	0.9	8.0	170	----	----	----	5.0	2.10	(mg/kg)	9.26	0.017	0.986	0.128	0.006	0.232	<0.004	0.169
Benzo(ghi)perylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	32000 ⁽¹⁾	1.70	(mg/kg)	7.21	0.007	0.509	0.046	<0.004	0.120	<0.004	0.084
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	2.63	0.005	0.357	0.049	<0.004	0.082	<0.004	0.06
Chrysene	88.0	780	17000	----	----	----	160	2.70	(mg/kg)	6.02	0.02	0.697	0.117	<0.004	0.144	<0.004	0.144
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	1.39	<0.004	0.165	0.018	<0.004	0.037	<0.004	0.023
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	7.53	0.03	0.980	0.270	<0.004	0.220	<0.004	0.23
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	0.528	0.004	0.020	0.010	<0.004	0.006	<0.004	0.012
Indeno(1,2,3-cd)pyrene	0.9	8.0	170	----	----	----	14.0	1.60	(mg/kg)	5.23	0.006	0.484	0.049	<0.004	0.113	<0.004	0.077
Naphthalene	1600	41000	4100	170	270	1.80	12.0	0.20	(mg/kg)	0.37	0.008	0.059	0.006	<0.004	0.011	<0.004	0.011
Phenanthrene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	220 ⁽¹⁾	2.50	(mg/kg)	3.80	0.090	0.343	0.163	<0.004	0.073	<0.004	0.162
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	12.3	0.035	0.878	0.200	<0.004	0.194	<0.004	0.232

⁽¹⁾ Non-TACO or provisional ROs published by the IEPA.

---- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.0059 Laboratory method detection limit exceeds one or more Tier 1 Remedial Objective for that constituent

mg/kg Milligrams per kilogram

<0.004 Not detected at the detection limit identified.

**TABLE 5-1
BTEX and PAHs - Less than 3 Feet**

**Former MGP Site
Champaign, Illinois
AmerenIP**

CONSTITUENT	<u>Soil Ingestion</u>			<u>Soil Inhalation</u>			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B-848	B-849	B-852	B-853	B-854	B-855	B-501	B-502
	Residential	Commercial	Construction	Residential	Commercial	Construction				B848 (2.0-3.0 ft)	B849 (0.0-1.0 ft)	B852 (2.0-3.0 ft)	B853 (2.0-3.0 ft)	B854 (2.0-3.0 ft)	B855 (2.0-3.0 ft)	B-501-2	B-502-3
										5/7/2008 2.0-3.0	5/7/2008 0.0-1.0	5/9/2008 2.0-3.0	6/23/2008 2.0-3.0	6/24/2008 2.0-3.0	6/26/2008 2.0-3.0	7/13/2004 1'-2'	7/13/2004 2'-3'
Benzene	12	100	2,300	800	1.6	2.20	0.03	---	(mg/kg)	0.0013	0.0012	0.0012	0.001	<0.001	<0.001	0.0019	0.0034
Ethylbenzene	7,800	200,000	20,000	400,000	400	20,000	13	---	(mg/kg)	<0.0057	<0.0053	<0.0056	0.0019	<0.005	<0.0049	<0.0011	0.0021
Toluene	16,000	410,000	41,000	650,000	650	42	12	---	(mg/kg)	<0.0057	0.0011	<0.0056	0.0017	<0.005	<0.0049	<0.0011	0.0055
Xylene (total)	16,000	410,000	41,000	410,000	320	5.6	150	---	(mg/kg)	<0.0057	<0.0053	0.0017	0.0022	<0.005	<0.0049	<0.0011	0.0065
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	<0.008	<0.004	<0.004	<0.004	<0.004	<0.004	<0.012	<0.029
Acenaphthylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	24.0 ⁽¹⁾	0.07	(mg/kg)	0.024	0.010	0.005	0.011	0.004	0.005	0.078	0.034
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	0.011	0.006	<0.004	0.007	0.005	0.005	0.041	<0.029
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	0.067	0.033	0.020	0.031	0.021	0.018	0.270	0.110
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	0.089	0.039	0.023	0.037	0.019	0.02	0.360	0.160
Benzo(b)fluoranthene	0.9	8.0	170	----	----	----	5.0	2.10	(mg/kg)	0.103	0.058	0.032	0.05	0.026	0.028	0.490	0.230
Benzo(ghi)perylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	32000 ⁽¹⁾	1.70	(mg/kg)	0.050	0.025	0.015	0.026	0.011	0.015	0.210	0.120
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	0.032	0.020	0.011	0.017	0.012	0.013	0.190	0.084
Chrysene	88.0	780	17000	----	----	----	160	2.70	(mg/kg)	0.075	0.043	0.023	0.04	0.021	0.021	0.320	0.120
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	0.013	0.007	0.004	0.007	0.005	0.007	0.061	<0.029
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	0.091	0.062	0.036	0.055	0.035	0.034	0.440	0.110
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	<0.008	<0.004	<0.004	<0.004	<0.004	<0.004	<0.012	<0.029
Indeno(1,2,3-cd)pyrene	0.9	8.0	170	----	----	----	14.0	1.60	(mg/kg)	0.042	0.024	0.014	0.022	0.011	0.014	0.240	0.084
Naphthalene	1600	41000	4100	170	270	1.80	12.0	0.20	(mg/kg)	0.014	0.006	<0.004	<0.004	<0.004	<0.004	0.033	0.120
Phenanthrene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	220 ⁽¹⁾	2.50	(mg/kg)	0.053	0.035	0.016	0.032	0.017	0.022	0.170	0.078
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	0.111	0.064	0.032	0.057	0.031	0.030	0.440	0.140

⁽¹⁾ Non-TACO or provisional ROs published by the IEPA.

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.0059 Laboratory method detection limit exceeds one or more Tier 1 Remedial Objective for that constituent

mg/kg Milligrams per kilogram

<0.004 Not detected at the detection limit identified.

**TABLE 5-1
BTEX and PAHs - Less than 3 Feet**

**Former MGP Site
Champaign, Illinois
AmerenIP**

CONSTITUENT	Soil Ingestion			Soil Inhalation			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B-503	B-504	B-505	B-506	B-507	B-508	B-509	B-510
	Residential	Commercial	Construction	Residential	Commercial	Construction				B-503-3 7/13/2004	B-504-3 7/13/2004	B-505-3 7/14/2004	B-506-3 7/22/2004	B-507-1 7/21/2004	B-508-3 7/19/2004	B-509-3 7/21/2004	B-510-2 7/12/2004
Benzene	12	100	2,300	800	1.6	2.20	0.03	---	(mg/kg)	13.9	0.0877	0.0477	3.820	0.005	0.0282	0.0142	0.0312
Ethylbenzene	7,800	200,000	20,000	400,000	400	20,000	13	---	(mg/kg)	4.24	0.0321	0.149	1.390	0.0011	0.0018	0.004	0.0022
Toluene	16,000	410,000	41,000	650,000	650	42	12	---	(mg/kg)	6.28	0.0383	0.0313	3.320	0.0039	0.0071	0.0112	0.0076
Xylene (total)	16,000	410,000	41,000	410,000	320	5.6	150	---	(mg/kg)	9.92	0.0653	0.139	5.480	0.0032	0.0063	0.0112	0.0081
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	<44.0	0.610	6.90	1.30	0.110	0.390	<0.120	<2.30
Acenaphthylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	24.0 ⁽¹⁾	0.07	(mg/kg)	<49.0	0.150	70.0	18.0	1.0	5.40	1.20	<2.50
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	51.0	0.460	15.0	4.50	0.510	1.70	0.330	<2.20
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	69.0	0.250	45.0	18.0	0.950	5.90	1.50	2.90
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	67.0	0.190	140.0	49.0	2.0	23.0	3.30	3.20
Benzo(b)fluoranthene	0.9	8.0	170	----	----	----	5.0	2.10	(mg/kg)	76.0	0.210	120.0	56.0	1.70	19.0	3.50	4.50
Benzo(ghi)perylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	32000 ⁽¹⁾	1.70	(mg/kg)	<41.0	0.064	38.0	17.0	0.650	7.40	1.60	<2.20
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	<36.0	0.086	33.0	16.0	0.530	4.50	1.0	<1.80
Chrysene	88.0	780	17000	----	----	----	160	2.70	(mg/kg)	62.0	0.240	47.0	23.0	1.10	8.10	2.0	3.60
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	<36.0	0.025	13.0	5.20	0.170	1.80	0.410	<1.90
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	120.0	0.680	37.0	18.0	1.50	8.20	2.0	3.70
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	<43.0	0.430	9.90	2.80	0.250	0.750	0.120	<2.20
Indeno(1,2,3-cd)pyrene	0.9	8.0	170	----	----	----	14.0	1.60	(mg/kg)	<39.0	0.081	41.0	17.0	0.610	6.30	1.40	<2.00
Naphthalene	1600	41000	4100	170	270	1.80	12.0	0.20	(mg/kg)	71.0	6.80	21.0	11.0	0.60	1.20	0.290	<2.70
Phenanthrene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	220 ⁽¹⁾	2.50	(mg/kg)	130.0	1.10	18.0	10.0	1.80	2.90	0.820	2.0
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	110.0	0.52	96.0	30.0	2.30	16.0	3.10	5.80

⁽¹⁾ Non-TACO or provisional ROs published by the IEPA.

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.0059

Laboratory method detection limit exceeds one or more Tier 1 Remedial Objective for that constituent

mg/kg Milligrams per kilogram

<0.004 Not detected at the detection limit identified.

**TABLE 5-1
BTEX and PAHs - Less than 3 Feet**

**Former MGP Site
Champaign, Illinois
AmerenIP**

CONSTITUENT	<u>Soil Ingestion</u>			<u>Soil Inhalation</u>			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B-512	B-513	B-514	B-515	B-516	B-550	B-551	B-553
	Residential	Commercial	Construction	Residential	Commercial	Construction				B-512-3 7/12/2004 2'-3'	B-513-2 7/12/2004 1'-2'	B-514-3 7/22/2004 2'-3'	B-515-2 7/16/2004 1'-2'	B-516-3 7/22/2004 2'-3'	B-550-3 7/20/2004 2'-3'	B-551-3 7/15/2004 2'-3'	B-553-3 7/14/2004 2'-3'
Benzene	12	100	2,300	800	1.6	2.20	0.03	---	(mg/kg)	0.0083	0.0076	0.0326	0.0043	0.0051	0.0058	0.972	0.195
Ethylbenzene	7,800	200,000	20,000	400,000	400	20,000	13	---	(mg/kg)	0.0013	<0.0011	0.0174	0.0213	0.0054	0.0136	0.282	0.200
Toluene	16,000	410,000	41,000	650,000	650	42	12	---	(mg/kg)	0.0049	0.0032	0.0103	0.003	0.0045	0.0038	0.244	0.370
Xylene (total)	16,000	410,000	41,000	410,000	320	5.6	150	---	(mg/kg)	0.0038	0.0018	0.0254	0.0264	0.0065	0.0259	0.276	0.456
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	0.330	0.052	<1.90	1.10	<1.80	<12.0	3.70	8.50
Acenaphthylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	24.0 ⁽¹⁾	0.07	(mg/kg)	1.23	0.10	2.60	1.90	40.0	<13.0	14.0	26.0
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	1.74	0.220	2.40	1.0	9.70	<11.0	20.0	8.40
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	2.87	0.80	4.60	2.20	42.0	<9.40	52.0	10.0
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	2.94	0.820	5.90	4.0	120.0	<8.60	68.0	55.0
Benzo(b)fluoranthene	0.9	8.0	170	----	----	----	5.0	2.10	(mg/kg)	4.31	1.30	7.60	4.40	130.0	<8.80	83.0	50.0
Benzo(ghi)perylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	32000 ⁽¹⁾	1.70	(mg/kg)	1.34	0.310	3.80	1.30	50.0	<11.0	28.0	26.0
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	1.50	0.490	2.70	1.30	36.0	<9.30	25.0	12.0
Chrysene	88.0	780	17000	----	----	----	160	2.70	(mg/kg)	3.23	0.930	4.90	2.80	62.0	<9.90	51.0	18.0
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	0.43	0.120	<1.50	0.350	14.0	<9.50	9.0	5.0
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	7.83	1.70	6.30	3.30	27.0	19.0	93.0	17.0
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	1.07	0.051	1.90	0.720	4.0	12.0	7.10	7.80
Indeno(1,2,3-cd)pyrene	0.9	8.0	170	----	----	----	14.0	1.60	(mg/kg)	1.62	0.40	3.40	1.20	47.0	<10.0	33.0	21.0
Naphthalene	1600	41000	4100	170	270	1.80	12.0	0.20	(mg/kg)	0.58	0.052	<2.20	1.80	10.0	<14.0	8.40	2.20
Phenanthrene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	220 ⁽¹⁾	2.50	(mg/kg)	5.99	0.840	6.50	3.30	8.70	14.0	47.0	9.40
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	6.02	1.300	8.50	5.70	67.00	21.0	76.0	27.0

⁽¹⁾ Non-TACO or provisional ROs published by the IEPA.

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.0059

Laboratory method detection limit exceeds one or more Tier 1 Remedial Objective for that constituent

mg/kg Milligrams per kilogram

<0.004 Not detected at the detection limit identified.

**TABLE 5-1
BTEX and PAHs - Less than 3 Feet**

**Former MGP Site
Champaign, Illinois
AmerenIP**

CONSTITUENT	<i>Soil Ingestion</i>			<i>Soil Inhalation</i>			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B-554	B-556	B-557	B-558	B-559	B-560	B-561	B-562
	Residential	Commercial	Construction	Residential	Commercial	Construction				B-554-3 7/15/2004 2'-3'	B-556-3 7/20/2004 2'-3'	B-557-1 7/20/2004 0-1'	B-558-2 7/19/2004 1'-2'	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'
Benzene	12	100	2,300	800	1.6	2.20	0.03	---	(mg/kg)	0.180	0.0103	0.0053	0.0023	0.0007	0.0619	0.0046	0.0087
Ethylbenzene	7,800	200,000	20,000	400,000	400	20,000	13	---	(mg/kg)	0.256	0.0115	0.0021	0.0045	<0.0010	0.0023	0.0032	0.0037
Toluene	16,000	410,000	41,000	650,000	650	42	12	---	(mg/kg)	0.211	0.0262	0.0036	0.0072	<0.0010	0.0126	0.0044	0.0086
Xylene (total)	16,000	410,000	41,000	410,000	320	5.6	150	---	(mg/kg)	0.624	0.0416	0.0052	0.0118	0.002	0.0067	0.0086	0.0099
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	<3.0	1.40	0.170	<0.450	<0.024	0.180	<0.320	0.076
Acenaphthylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	24.0 ⁽¹⁾	0.07	(mg/kg)	9.20	5.90	0.880	<0.500	<0.024	8.40	1.0	0.510
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	<2.80	4.40	0.620	<0.420	<0.024	1.30	0.570	0.260
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	<2.40	6.40	3.60	0.450	0.140	8.60	2.30	1.40
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	8.50	18.0	5.20	0.50	0.190	36.0	4.10	2.30
Benzo(b)fluoranthene	0.9	8.0	170	----	----	----	5.0	2.10	(mg/kg)	8.20	13.0	6.0	0.610	0.270	27.0	5.50	3.70
Benzo(ghi)perylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	32000 ⁽¹⁾	1.70	(mg/kg)	8.50	6.10	2.70	<0.420	0.110	13.0	2.10	0.540
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	<2.40	3.70	1.90	<0.360	0.088	7.90	2.0	1.40
Chrysene	88.0	780	17000	----	----	----	160	2.70	(mg/kg)	4.30	7.90	3.80	0.450	0.150	11.0	3.40	1.70
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	<2.50	1.50	0.72	<0.370	0.042	4.20	0.610	0.180
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	4.60	9.20	6.30	0.690	0.190	11.0	4.70	2.40
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	<2.90	3.90	0.11	<0.440	<0.024	0.98	0.34	0.093
Indeno(1,2,3-cd)pyrene	0.9	8.0	170	----	----	----	14.0	1.60	(mg/kg)	4.40	5.30	2.50	<0.400	0.110	12.0	2.20	0.640
Naphthalene	1600	41000	4100	170	270	1.80	12.0	0.20	(mg/kg)	<3.50	5.30	0.98	<0.530	0.037	1.90	0.45	0.230
Phenanthrene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	220 ⁽¹⁾	2.50	(mg/kg)	3.30	9.90	2.80	<0.380	0.067	3.0	2.10	0.860
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	8.50	18.0	6.0	0.650	0.170	32.0	4.20	2.20

⁽¹⁾ Non-TACO or provisional ROs published by the IEPA.

---- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.0059 Laboratory method detection limit exceeds one or more Tier 1 Remedial Objective for that constituent

mg/kg Milligrams per kilogram

<0.004 Not detected at the detection limit identified.