

Groundwater Analytical Results March 2013, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin.

Well ID	Preventive	Enforcement	MW-3S		MW-3D3			MW-22S	
			19-29	19-29	214-224	214-224	214-224	25-35	25-35
Sample Interval (feet bls)	Action Limit	Standard	01/15/13	03/07/13	01/18/13	01/31/13	03/07/13	01/15/13	03/07/13
VOCs (µg/L)									
1,1,1,2-Tetrachloroethane	7	70	<0.25	NA	<0.25	NA	NA	<0.25	NA
1,1,2-Trichloroethane	0.5	5	<0.28	NA	<0.28	NA	NA	<0.28	NA
1,1-Dichloroethene	0.7	7	<0.31	NA	<0.31	NA	NA	<0.31	NA
1,2,4-Trimethylbenzene	96	480	<0.14	NA	<0.14	NA	NA	0.86 J	NA
1,2-Dibromoethane	0.005	0.05	<0.36	NA	<0.36	NA	NA	<0.36	NA
1,2-Dichlorobenzene	60	600	<0.27	NA	<0.27	NA	NA	<0.27	NA
1,2-Dichloroethane	0.5	5	<0.28	NA	<0.28	NA	NA	<0.28	NA
1,2-Dichloropropane	0.5	5	<0.2	NA	<0.2	NA	NA	<0.2	NA
1,3,5-Trimethylbenzene	96	480	<0.18	NA	<0.18	NA	NA	<0.18	NA
Benzene	0.5	5	0.42 J	NA	0.30 J	NA	NA	1.1	NA
Bromoform	0.44	4.4	<0.28	NA	<0.28	NA	NA	<0.28	NA
Bromomethane	1	10	<0.31	NA	<0.31	NA	NA	<0.31	NA
Carbon tetrachloride	0.5	5	<0.26	NA	<0.26	NA	NA	<0.26	NA
Chloroform	0.6	6	1.6	NA	<0.2	NA	NA	1	NA
Chloromethane	3	30	<0.18	NA	<0.18	NA	NA	<0.18	NA
cis-1,2-Dichloroethene	7	70	<0.12	NA	15	NA	NA	1.8	NA
Ethylbenzene	140	700	0.36 J	NA	<0.13	NA	NA	0.5	NA
Isopropylbenzene	NE	NE	<0.14	NA	<0.14	NA	NA	<0.14	NA
Methyl tert-butyl ether	12	60	<0.24	NA	<0.24	NA	NA	<0.24	NA
Methylene Chloride	0.5	5	<0.68	NA	<0.68	NA	NA	<0.68	NA
Naphthalene	10	100	<0.16	NA	<0.16	NA	NA	<0.16	NA
n-Butylbenzene	NE	NE	<0.13	NA	<0.13	NA	NA	<0.13	NA
N-Propylbenzene	NE	NE	<0.13	NA	<0.13	NA	NA	<0.13	NA
p-Isopropyltoluene	NE	NE	<0.17	NA	<0.17	NA	NA	<0.17	NA
sec-Butylbenzene	NE	NE	<0.15	NA	<0.15	NA	NA	<0.15	NA
Styrene	10	100	<0.1	NA	<0.1	NA	NA	<0.1	NA
tert-Butylbenzene	NE	NE	<0.14	NA	<0.14	NA	NA	<0.14	NA
Tetrachloroethene	0.5	5	88	NA	1.3	NA	NA	180	NA
Toluene	160	800	0.38 J	NA	0.21 J	NA	NA	1.7	NA
trans-1,2-Dichloroethene	20	100	<0.25	NA	<0.25	NA	NA	<0.25	NA
Trichloroethene	0.5	5	<0.19	NA	0.40 J	NA	NA	4.8	NA

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			Sample Interval (feet bls)	Action Limit	Standard	19-29	19-29	214-224	214-224
Sample Date			01/15/13	03/07/13	01/18/13	01/31/13	03/07/13	01/15/13	03/07/13
VOCs (µg/L) (continued)									
Vinyl chloride	0.02	0.2	<0.1	NA	<0.1	NA	NA	<0.1	NA
Xylenes, Total	400	2,000	2.4	NA	<0.068	NA	NA	1.5	NA
PCBs (µg/L)									
Aroclor-1016	0.003	0.03	<0.18	NA	<0.18	NA	NA	12	<0.033
Aroclor-1232	0.003	0.03	<0.096	NA	<0.096	NA	NA	<0.49	13
Aroclor-1242	0.003	0.03	<0.14	NA	<0.14	NA	NA	<0.69	<0.099
Total Detected PCBs	NE	NE	ND	NA	ND	NA	NA	12	13
Dissolved PCBs (µg/L)									
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	<0.037
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	<0.11
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	<0.11
Total Detected PCBs	NE	NE	NA	NA	NA	NA	NA	NA	ND
PAHs (µg/L)									
1-Methylnaphthalene	NE	NE	<1.1	NA	NA	<1.1	<0.18	<1	NA
2-Methylnaphthalene	NE	NE	<0.14	NA	NA	0.40 J	<0.063	<0.13	NA
Acenaphthene	NE	NE	<0.39	NA	NA	0.84 J	<0.091	<0.37	NA
Anthracene	600	3,000	<0.34	NA	NA	30	<0.14	<0.33	NA
Benzo(a)anthracene	NE	NE	<0.047	NA	NA	1.9	<0.048	<0.045	NA
Benzo(a)pyrene	0.02	0.2	<0.06	NA	NA	0.88	<0.056	<0.057	NA
Benzo(b)fluoranthene	0.02	0.2	<0.062	NA	NA	1.2	<0.061	<0.059	NA
Benzo(k)fluoranthene	NE	NE	<0.079	NA	NA	0.58	<0.13	<0.076	NA
Chrysene	0.02	0.2	<0.15	NA	NA	12	<0.069	<0.14	NA
Fluoranthene	80	400	<0.34	NA	NA	4.7	<0.15	<0.33	NA
Fluorene	80	400	<0.41	NA	NA	3.4	<0.12	<0.39	NA
Indeno(1,2,3-cd)pyrene	NE	NE	<0.09	NA	NA	0.34	<0.057	<0.086	NA
Naphthalene	10	100	<0.32	NA	NA	0.42 J	<0.12	0.31 J	NA
Phenanthrene	NE	NE	<0.38	NA	NA	10	<0.16	<0.36	NA
Pyrene	50	250	<0.51	NA	NA	3.4	<0.17	<0.49	NA

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Well ID	Preventive	Enforcement	MW-3S		MW-3D3			MW-22S	
			19-29	19-29	214-224	214-224	214-224	25-35	25-35
Sample Interval (feet bls)	Action Limit	Standard	01/15/13	03/07/13	01/18/13	01/31/13	03/07/13	01/15/13	03/07/13
Dissolved Metals (µg/L)									
Arsenic	1	10	<3.7	NA	1.5	NA	NA	1.2	NA
Barium	400	2,000	34 J	NA	81	NA	NA	200	NA
Cadmium	0.5	5	<2.6	NA	<0.1	NA	NA	<0.1	NA
Chromium	10	100	510	46	0.81 J	NA	NA	<0.64	NA
Lead	1.5	15	<3.9	NA	<0.16	NA	NA	0.22 J	NA
Mercury	0.2	2	4.1	0.24	<0.071	NA	NA	<0.071	NA
Selenium	10	50	35 J	NA	<0.25	NA	NA	0.34 J	NA
Silver	10	50	2.6 J	NA	<0.069	NA	NA	<0.069	NA

Only VOCs, PAHs, and PCBs detected in one or more water samples are listed on the table. Refer to laboratory analytical reports for a complete list of constituents analyzed.

100 Concentration exceeds the NR 140 Wis. adm. code Preventive Action Limit.

100 Concentration exceeds the NR 140 Wis. adm. code Enforcement Standard.

< Constituent not detected above noted laboratory detection limit.

bls Below land surface.

J Result is between the method detection limit and the limit of quantitation.

µg/L Micrograms per liter.

NA Not analyzed.

NE Not established.

ND Total detected PCBs were reported less than the laboratory detection limit.

PCBs Polychlorinated Biphenyls.

PAHs Polycyclic Aromatic Hydrocarbons.

VOCs Volatile Organic Compounds.

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Well ID	MW-22D		MW-23S	MW-23D	
	45-50	45-50	25-35	45-50	45-50
Sample Interval (feet bls)	01/15/13	03/08/13	01/15/13	01/14/13	03/08/13
Sample Date	01/15/13	03/08/13	01/15/13	01/14/13	03/08/13
VOCs (µg/L)					
1,1,1,2-Tetrachloroethane	<0.25	NA	<0.25	<0.25	NA
1,1,2-Trichloroethane	<0.28	NA	<0.28	<0.28	NA
1,1-Dichloroethene	<0.31	NA	<0.31	<0.31	NA
1,2,4-Trimethylbenzene	<0.14	NA	<0.14	<0.14	NA
1,2-Dibromoethane	<0.36	NA	<0.36	<0.36	NA
1,2-Dichlorobenzene	<0.27	NA	<0.27	<0.27	NA
1,2-Dichloroethane	<0.28	NA	<0.28	<0.28	NA
1,2-Dichloropropane	<0.2	NA	<0.2	<0.2	NA
1,3,5-Trimethylbenzene	<0.18	NA	<0.18	<0.18	NA
Benzene	<0.074	NA	0.73	0.32 J	NA
Bromoform	<0.28	NA	<0.28	<0.28	NA
Bromomethane	<0.31	NA	<0.31	<0.31	NA
Carbon tetrachloride	<0.26	NA	<0.26	<0.26	NA
Chloroform	<0.2	NA	<0.2	<0.2	NA
Chloromethane	0.47 J	NA	1.2	<0.18	NA
cis-1,2-Dichloroethene	3.6	NA	<0.12	<0.12	NA
Ethylbenzene	<0.13	NA	0.43 J	0.20 J	NA
Isopropylbenzene	<0.14	NA	<0.14	<0.14	NA
Methyl tert-butyl ether	<0.24	NA	<0.24	<0.24	NA
Methylene Chloride	<0.68	NA	<0.68	<0.68	NA
Naphthalene	<0.16	NA	<0.16	<0.16	NA
n-Butylbenzene	<0.13	NA	<0.13	<0.13	NA
N-Propylbenzene	<0.13	NA	<0.13	<0.13	NA
p-Isopropyltoluene	<0.17	NA	<0.17	<0.17	NA
sec-Butylbenzene	<0.15	NA	<0.15	<0.15	NA
Styrene	<0.1	NA	<0.1	<0.1	NA
tert-Butylbenzene	<0.14	NA	<0.14	<0.14	NA
Tetrachloroethene	520	NA	290	100	NA
Toluene	<0.11	NA	1.3	0.6	NA
trans-1,2-Dichloroethene	<0.25	NA	<0.25	<0.25	NA
Trichloroethene	5.8	NA	0.64	<0.19	NA

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Well ID	MW-22D		MW-23S	MW-23D	
	45-50	45-50	25-35	45-50	45-50
Sample Interval (feet bls)	01/15/13	03/08/13	01/15/13	01/14/13	03/08/13
Sample Date	01/15/13	03/08/13	01/15/13	01/14/13	03/08/13
VOCs (µg/L) (continued)					
Vinyl chloride	<0.1	NA	<0.1	<0.1	NA
Xylenes, Total	<0.068	NA	0.95 J	0.68 J	NA
PCBs (µg/L)					
Aroclor-1016	2.4	<0.033	<0.19	<0.16	<0.034
Aroclor-1232	<0.092	2.6	<0.11	<0.089	<0.10
Aroclor-1242	<0.13	<0.10	<0.15	0.24 J	<0.10
Total Detected PCBs	2.4	2.6	ND	0.24	ND
PCBs Dissolved (µg/L)					
Aroclor-1016	NA	<0.033	NA	NA	<0.034
Aroclor-1232	NA	<0.10	NA	NA	<0.10
Aroclor-1242	NA	<0.10	NA	NA	<0.10
Total Detected PCBs	NA	ND	NA	NA	ND
PAHs (µg/L)					
1-Methylnaphthalene	<1	NA	<1	<1.1	NA
2-Methylnaphthalene	<0.14	NA	<0.14	<0.14	NA
Acenaphthene	<0.38	NA	<0.38	<0.4	NA
Anthracene	<0.33	NA	<0.33	<0.35	NA
Benzo(a)anthracene	<0.046	NA	<0.046	<0.048	NA
Benzo(a)pyrene	<0.059	NA	<0.059	<0.062	NA
Benzo(b)fluoranthene	<0.061	NA	<0.061	<0.064	NA
Benzo(k)fluoranthene	<0.077	NA	<0.077	<0.082	NA
Chrysene	<0.15	NA	<0.15	<0.15	NA
Fluoranthene	<0.33	NA	<0.33	<0.35	NA
Fluorene	<0.4	NA	<0.4	<0.42	NA
Indeno(1,2,3-cd)pyrene	<0.088	NA	<0.088	<0.093	NA
Naphthalene	<0.31	NA	<0.31	<0.33	NA
Phenanthrene	<0.37	NA	<0.37	<0.39	NA
Pyrene	<0.5	NA	<0.5	<0.53	NA

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	45-50	45-50	25-35	45-50	45-50
Sample Interval (feet bls)	01/15/13	03/08/13	01/15/13	01/14/13	03/08/13
Sample Date	01/15/13	03/08/13	01/15/13	01/14/13	03/08/13
Dissolved Metals (µg/L)					
Arsenic	0.29 J	NA	0.56 J	0.35 J	NA
Barium	130	NA	120	120	NA
Cadmium	<0.1	NA	<0.1	<0.1	NA
Chromium	1.8 J	NA	0.90 J	<0.64	NA
Lead	<0.16	NA	0.25 J	<0.16	NA
Mercury	<0.071	NA	<0.071	<0.071	NA
Selenium	<0.25	NA	0.79 J	1.0 J	NA
Silver	<0.069	NA	<0.069	<0.069	NA

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PCBs Polychlorinated Biphenyls.

PAHs Polycyclic Aromatic Hydrocarbons.

VOCs Volatile Organic Compounds.