Table 2-1
Well Construction Details

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID	Ground Elevation (feet amsl)	Top of Casing Elevation (feet amsl)	Top of Screen Elevation (feet amsl)	Bottom of Screen Elevation (feet amsl)	Depth to Top of Screen (feet bls)	Depth to Bottom of Screen (feet bls)	Total Depth Drilled (feet bls)	Screen Length (feet)	Screened Media	Installation Date	Drilling Method	Driller	Borehole Diameter (inches)	Well Casing Diameter (inches)	Casing Material	Screen Material
MW-1	861.71	861.08	847.71	837.71	14	24	30	10	Soil	1/10/1995	Hollow Stem Auger	WTD Environmental	8	2	PVC	Timco, Schedule 40, 10-Slot
MW-2S	866.34	868.94	847.34	837.34	19	29	30	10	Soil	7/31/1995	Hollow Stem Auger	Badger State Drilling	8	2	PVC	Diedrich, Schedule 40, 10-Slot
MW-2D	866.50	868.74	827.50	822.50	39	44	45	5	Bedrock	7/31/1995	Rotary & Hollow Stem Auger	Badger State Drilling	8	2	PVC	Diedrich, Schedule 40, 10-Slot
MW-3S	867.87	867.41	848.87	838.87	19	29	30	10	Soil	8/1/1995	Hollow Stem Auger	Badger State Drilling	8	2	PVC	Diedrich, Schedule 40, 10-Slot
MW-3D	867.68	867.25	819.68	814.68	48	53	unknown	5	Bedrock	unknown	Rotary & Hollow Stem Auger	unknown	unknown	2	PVC	Schedule 40, 10-Slot
MW-3D2	867.58	867.39	791.58	786.58	76	81	82	5	Bedrock	4/2/2001	Rotary & Hollow Stem Auger	Badger State Drilling	10	2	PVC	Schedule 40, 10-Slot
MW-3D3	867.61	867.35	653.61	643.61	214	224	237	10	Bedrock	7/13/2012	Rotary & Hollow Stem Auger	Boart Longyear	6	2	PVC	Johnson, Stainless Steel, 10-Slot
MW-4S	880.81	880.31	845.81	830.81	35	50	51	15	Bedrock	unknown	Hollow Stem Auger	Badger State Drilling	8	2	PVC	Buffalo, Schedule 40, 10-Slot
MW-4D	881.18	880.38	816.18	811.18	65	70	71	5	Bedrock	6/6/1996	Rotary & Hollow Stem Auger	Badger State Drilling	8	2	PVC	Buffalo, Schedule 40, 10-Slot
MW-4D2	880.36	880.20	789.36	784.36	91	96	unknown	5	Bedrock	unknown	Rotary & Hollow Stem Auger	unknown	unknown	2	PVC	Schedule 40, 10-Slot
MW-5S	872.56	872.14	838.56	828.56	34	44	44	10	Bedrock	4/4/2001	Rotary & Hollow Stem Auger	Badger State Drilling	10	2	PVC	Monoflex, Schedule 40, 10-Slot
MW-5D	872.58	872.10	797.58	792.58	75	80	82	5	Bedrock	4/3/2001	Rotary & Hollow Stem Auger	Badger State Drilling	10	2	PVC	Monoflex, Schedule 40, 10-Slot
MW-5D2	872.59	872.20	706.79	701.79	166	171	171	5	Bedrock	2/11/2003	Rotary & Hollow Stem Auger	Badger State Drilling	4	2	PVC	Diedrich, Schedule 80, 10-Slot
MW-5D3	872.34	871.89	647.34	637.34	225	235	239	10	Bedrock	7/12/2012	Mud Rotary	Boart Longyear	6	2	PVC	Johnson, Stainless Steel, 10-Slot
MW-6S	877.20	876.69	845.80	835.80	31	41	41	10	Bedrock	2/4/2003	Hollow Stem Auger	Badger State Drilling	9	2	PVC	Diedrich, Schedule 40, 10-Slot
MW-6D	877.11	876.69	811.61	806.61	66	71	71	5	Bedrock	2/4/2003	Rotary & Hollow Stem Auger	Badger State Drilling	8	2	PVC	Diedrich, Schedule 40, 10-Slot
MW-7	870.91	870.42	845.91	835.91	25	35	35	10	Soil	7/25/2011	Hollow Stem Auger	Badger State Drilling	8	2	PVC	Monoflex, Schedule 40, 10-Slot
MW-8	867.69	866.78	843.69	833.69	24	34	34	10	Soil	7/25/2011	Hollow Stem Auger	Badger State Drilling	8	2	PVC	Monoflex, Schedule 40, 10-Slot
MW-9D	855.80	855.47	811.80	806.80	44	49	49	5	Bedrock	7/26/2011	Rotary & Hollow Stem Auger	Badger State Drilling	6	2	PVC	Monoflex, Schedule 40, 10-Slot
MW-9D2	855.89	855.48	791.89	786.89	64	69	69	5	Bedrock	7/27/2011	Rotary & Hollow Stem Auger	Badger State Drilling	6	2	PVC	Monoflex, Schedule 40, 10-Slot
MW-10S	864.88	864.42	853.88	843.88	11	21	22	10	Soil	4/4/2012	Hollow Stem Auger	Giles Engineering	8	2	PVC	Johnson, Schedule 40, 10-Slot
MW-11S	874.10	873.47	850.10	840.10	24	34	36	10	Soil	4/10/2012	Hollow Stem Auger	Giles Engineering	8	2	PVC	Johnson, Schedule 40, 10-Slot
MW-12S	859.78	859.41	856.78	846.78	3	13	14	10	Soil	4/10/2012	Hollow Stem Auger	Giles Engineering	8	2	PVC	Johnson, Schedule 40, 10-Slot
MP-13	864.49	863.99	820.49 797.49 783.49 762.49 743.49 729.49 701.49	816.49 793.49 779.49 758.49 739.49 725.49 697.49	44 67 81 102 121 135 163	48 71 85 106 125 139 167	200	4 4 4 4 4 4 4	Bedrock	9/30/2012	Rotary & Hollow Stem Auger	Boart Longyear	6	2	PVC	Westbay Multiport Well
MP-14	866.88	867.28	796.88 766.88 731.88 696.88	791.88 761.88 726.88 688.88	70 100 135 170	75 105 140 178	200	5 5 5 8	Bedrock	10/22/2012	Rotary & Hollow Stem Auger	Boart Longyear	6	2	PVC	Westbay Multiport Well

Notes on Page 2.

Table 2-1
Well Construction Details

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID	Ground Elevation (feet amsl)	Top of Casing Elevation (feet amsl)	Top of Screen Elevation (feet amsl)	Bottom of Screen Elevation (feet amsl)	Depth to Top of Screen (feet bls)	Depth to Bottom of Screen (feet bls)	Total Depth Drilled (feet bls)	Screen Length (feet)	Screened Media	Installation Date	Drilling Method	Driller	Borehole Diameter (inches)	Well Casing Diameter (inches)	Casing Material	Screen Material
MP-15	855.98	855.50	767.98	763.98	88	92	200	4	Bedrock	12/11/2012	Rotary & Hollow Stem Auger	Boart Longyear	6	2	PVC	Westbay Multiport Well
			755.98	750.98	100	105		5								
			735.98	730.98	120	125		5								
			713.98	709.98	142	146		4								
			678.98	668.98	177	187		10								
MP-16	870.68	870.17	790.68	786.68	80	84	200	4	Bedrock	11/30/2012	Rotary & Hollow Stem Auger	Boart Longyear	6	2	PVC	Westbay Multiport Well
			764.68	754.68	106	116		10								
			730.68	726.68	140	144		4								
			695.68	691.68	175	179		4								
MW-17	877.26	876.65	717.26	707.26	160	170	207	10	Bedrock	11/8/2012	Rotary & Hollow Stem Auger	Boart Longyear	6	2	PVC	Westbay Multiport Well
MW-18S	867.89	867.24	847.89	837.89	20	30	31	10	Soil	11/2/2012	Hollow Stem Auger	Giles Engineering	8	4	PVC	Johnson, Schedule 80, 10-Slot Vee-Wire
MW-19D	867.443	866.75	807.44	777.44	60	90	142	30	Bedrock	10/24/2012	Rotary & Hollow Stem Auger	Boart Longyear	8	2	PVC	Johnson, Schedule 80, 10-Slot Vee-Wire
MW-19D2	867.443	866.707	757.44	727.44	110	140	142	30	Bedrock	10/24/2012	Rotary & Hollow Stem Auger	Boart Longyear	8	2	PVC	Johnson, Schedule 80, 10-Slot Vee-Wire
MW-20D	867.362	866.96	807.36	777.36	60	90	142	30	Bedrock	10/25/2012	Rotary & Hollow Stem Auger	Boart Longyear	8	2	PVC	Johnson, Schedule 80, 10-Slot Vee-Wire
MW-20D2	867.362	867.043	757.36	727.36	110	140	142	30	Bedrock	10/25/2012	Rotary & Hollow Stem Auger	Boart Longyear	8	2	PVC	Johnson, Schedule 80, 10-Slot Vee-Wire
MW-21D	867.77	867.49	807.77	777.77	60	90	172	30	Bedrock	10/26/2012	Rotary & Hollow Stem Auger	Boart Longyear	8	2	PVC	Johnson, Schedule 80, 10-Slot Vee-Wire
MW-21D2	867.77	867.46	757.77	697.77	110	170	172	60	Bedrock	10/26/2012	Rotary & Hollow Stem Auger	Boart Longyear	8	2	PVC	Johnson, Schedule 80, 10-Slot Vee-Wire
MW-22S	874.45	874.12	849.45	839.45	25	35	50	10	Soil	1/4/2013	Sonic	Boart Longyear	8	2	PVC	Johnson, Schedule 40, 10-Slot
MW-22D	874.45	874.15	829.45	824.45	45	50	50	5	Bedrock	1/4/2013	Sonic	Boart Longyear	8	2	PVC	Johnson, Schedule 40, 10-Slot
MW-23S	874.55	874.20	849.55	839.55	25	35	50	10	Soil	1/3/2013	Sonic	Boart Longyear	8	2	PVC	Johnson, Schedule 40, 10-Slot
MW-23D	874.55	874.27	829.55	824.55	45	50	50	5	Bedrock	1/3/2013	Sonic	Boart Longyear	8	2	PVC	Johnson, Schedule 40, 10-Slot
MW-24	876.66	876.41	846.66	836.66	30	40	43	10	Bedrock	3/28/2013	Rotary & Hollow Stem Auger	Badger State Drilling	8	2	PVC	Monoflex, Schedule 40, 10-Slot
MW-25D	886.97	886.69	766.97	756.97	120	130	230	10	Bedrock	5/2/2013	Rotary & Hollow Stem Auger	Boart Longyear	8	2	PVC	Johnson, Schedule 40, 10-Slot
MW-25D2	886.97	886.68	726.97	716.97	160	170	230	10	Bedrock	5/2/2013	Rotary & Hollow Stem Auger	Boart Longyear	8	2	PVC	Johnson, Schedule 40, 10-Slot
MW-26S	857.51	856.61	850.66	840.66	6.85	16.85	18	10	Soil	8/21/2013	Rotary & Hollow Stem Auger	Giles Engineering	8	2	PVC	Johnson, Schedule 40, 10-Slot
MW-27D	862.96	862.65	732.96	722.96	130	140	227	10	Bedrock	12/19/2013	Rotary & Hollow Stem Auger	Cascade Drilling	8	2	PVC	Johnson, Schedule 40, 10-Slot
MW-27D2	862.96	862.59	692.96	682.96	170	180	227	10	Bedrock	12/19/2013	Rotary & Hollow Stem Auger	Cascade Drilling	8	2	PVC	Johnson, Schedule 40, 10-Slot
GWE-1	867.62	866.63	807.62	692.62	60	175	186	115	Bedrock	1/9/2014	Rotary & Hollow Stem Auger	Cascade Drilling	12	8	PVC	Johnson, Stainless Steel, 10-Slot, 20-Slot
EW-1	862.29	861.94	852.29	827.29	10	35	36	25	Soil	6/6/1996	Hollow Stem Auger	Badger State Drilling	15	6	PVC	Buffalo, Schedule 80, 10-Slot
IW-1S	867.82	867.62	851.82	841.82	16	26	28	10	Soil	11/2/2012	Hollow Stem Auger	Giles Engineering	8	4	PVC	Johnson, Schedule 80, 10-Slot Vee-Wire
IW-2D	867.57	866.61	807.57	777.57	60	90	142	30	Bedrock	10/28/2012	Rotary & Hollow Stem Auger	Boart Longyear	10	6	PVC	Johnson, Schedule 80, 10-Slot Vee-Wire
IW-2D2	867.57	866.57	757.57	727.57	110	140	142	30	Bedrock	10/28/2012	Rotary & Hollow Stem Auger	Boart Longyear	10	6	PVC	Johnson, Schedule 80, 10-Slot Vee-Wire

Acronyms and Abbreviations:

amsl = above mean sea level
bls = below land surface
PVC = polyvinyl chloride

Table 2-2
Groundwater Elevations 2004-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well/ Boring	Date	Screen Interval (feet bls)	Ground Elevation (feet amsl)	Top of Casing Elevation (feet amsl)	Depth to Water (feet btoc)	Groundwater Elevation (feet amsl)	Lithology
MW-1	05/01/04	14 - 24	861.71	861.08	16.30	844.78	Unconsolidated
MW-1	07/01/04	14 - 24	861.71	861.08	11.94	849.14	Unconsolidated
MW-1	10/01/04	14 - 24	861.71	861.08	13.41	847.67	Unconsolidated
MW-1	01/01/05	14 - 24	861.71	861.08	14.37	846.71	Unconsolidated
MW-1	03/01/05	14 - 24	861.71	861.08	13.50	847.58	Unconsolidated
MW-1	07/01/05	14 - 24	861.71	861.08	15.56	845.52	Unconsolidated
MW-1	09/01/05	14 - 24	861.71	861.08	17.16	843.92	Unconsolidated
MW-1	12/01/05	14 - 24	861.71	861.08	18.18	842.90	Unconsolidated
MW-1	03/01/06	14 - 24	861.71	861.08	17.32	843.76	Unconsolidated
MW-1	07/01/06	14 - 24	861.71	861.08	14.80	846.28	Unconsolidated
MW-1	10/01/06	14 - 24	861.71	861.08	14.05	847.03	Unconsolidated
MW-1	12/01/06	14 - 24	861.71	861.08	14.21	846.87	Unconsolidated
MW-1	03/01/07	14 - 24	861.71	861.08	13.45	847.63	Unconsolidated
MW-1	08/01/07	14 - 24	861.71	861.08	13.92	847.16	Unconsolidated
MW-1	09/01/07	14 - 24	861.71	861.08	11.68	849.40	Unconsolidated
MW-1	03/01/08	14 - 24	861.71	861.08	9.87	851.21	Unconsolidated
MW-1	06/01/08	14 - 24	861.71	861.08	6.14	854.94	Unconsolidated
MW-1	09/01/08	14 - 24	861.71	861.08	10.97	850.11	Unconsolidated
MW-1	12/01/08	14 - 24	861.71	861.08	12.67	848.41	Unconsolidated
MW-1	04/01/09	14 - 24	861.71	861.08	10.00	851.08	Unconsolidated
MW-1	06/01/09	14 - 24	861.71	861.08	9.34	851.74	Unconsolidated
MW-1	09/01/09	14 - 24	861.71	861.08	12.64	848.44	Unconsolidated
MW-1	07/01/10	14 - 24	861.71	861.08	9.49	851.59	Unconsolidated
MW-1	10/01/10	14 - 24	861.71	861.08	10.59	850.49	Unconsolidated
MW-1	04/09/12	14 - 24	861.71	861.08	13.50	847.58	Unconsolidated
MW-1	07/23/12	14 - 24	861.71	861.08	14.52	846.56	Unconsolidated
MW-1	11/30/12	14 - 24	861.71	861.08	15.32	845.76	Unconsolidated
MW-1	01/14/13	14 - 24	861.71	861.08	15.22	845.86	Unconsolidated
MW-1	04/15/13	14 - 24	861.71	861.08	10.17	850.91	Unconsolidated
MW-1	07/15/13	14 - 24	861.71	861.08	8.84	852.24	Unconsolidated
MW-1	10/03/13	14 - 24	861.71	861.08	11.42	849.66	Unconsolidated
MW-1	04/14/14	14 - 24	861.71	861.08	13.11	847.97	Unconsolidated
MW-1	07/08/14	14 - 24	861.71	861.08	10.30	850.78	Unconsolidated
MW-1	10/13/14	14 - 24	861.71	861.08	11.44	849.64	Unconsolidated
MW-2S	07/01/04	19 - 29	866.34	868.94	21.23	847.71	Unconsolidated
MW-2S	10/01/04	19 - 29	866.34	868.94	22.61	846.33	Unconsolidated
MW-2S	01/01/05	19 - 29	866.34	868.94	23.19	845.75	Unconsolidated
MW-2S	03/01/05	19 - 29	866.34	868.94	23.24	845.70	Unconsolidated
MW-2S	07/01/05	19 - 29	866.34	868.94	24.38	844.56	Unconsolidated
MW-2S	09/01/05	19 - 29	866.34	868.94	26.02	842.92	Unconsolidated
MW-2S	12/01/05	19 - 29	866.34	868.94	26.90	842.04	Unconsolidated
MW-2S	03/01/06	19 - 29	866.34	868.94	26.66	842.28	Unconsolidated
MW-2S	07/01/06	19 - 29	866.34	868.94	23.81	845.13	Unconsolidated
MW-2S	10/01/06	19 - 29	866.34	868.94	23.15	845.79	Unconsolidated
MW-2S	12/01/06	19 - 29	866.34	868.94	22.75	846.19	Unconsolidated
MW-2S	03/01/07	19 - 29	866.34	868.94	22.67	846.27	Unconsolidated

Notes on Page 19.

Table 2-2
Groundwater Elevations 2004-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well/ Boring	Date	Screen Interval (feet bls)	Ground Elevation (feet amsl)	Top of Casing Elevation (feet amsl)	Depth to Water (feet btoc)	Groundwater Elevation (feet amsl)	Lithology
MW-2S	08/01/07	19 - 29	866.34	868.94	22.51	846.43	Unconsolidated
MW-2S	09/01/07	19 - 29	866.34	868.94	20.43	848.51	Unconsolidated
MW-2S	03/01/08	19 - 29	866.34	868.94	19.69	849.25	Unconsolidated
MW-2S	06/01/08	19 - 29	866.34	868.94	14.41	854.53	Unconsolidated
MW-2S	09/01/08	19 - 29	866.34	868.94	18.61	850.33	Unconsolidated
MW-2S	04/01/09	19 - 29	866.34	868.94	19.20	849.74	Unconsolidated
MW-2S	06/01/09	19 - 29	866.34	868.94	17.90	851.04	Unconsolidated
MW-2S	09/01/09	19 - 29	866.34	868.94	20.63	848.31	Unconsolidated
MW-2S	12/01/09	19 - 29	866.34	868.94	20.63	848.31	Unconsolidated
MW-2S	07/01/10	19 - 29	866.34	868.94	18.50	850.44	Unconsolidated
MW-2S	10/01/10	19 - 29	866.34	868.94	18.57	850.37	Unconsolidated
MW-2S	12/01/10	19 - 29	866.34	868.94	20.20	848.74	Unconsolidated
MW-2S	04/09/12	19 - 29	866.34	868.94	22.11	846.83	Unconsolidated
MW-2S	07/23/12	19 - 29	866.34	868.94	23.01	845.93	Unconsolidated
MW-2S	11/30/12	19 - 29	866.34	868.94	23.80	845.14	Unconsolidated
MW-2S	01/14/13	19 - 29	866.34	868.94	24.00	844.94	Unconsolidated
MW-2S	04/15/13	19 - 29	866.34	868.94	21.16	847.78	Unconsolidated
MW-2S	07/15/13	19 - 29	866.34	868.94	16.45	852.49	Unconsolidated
MW-2S	10/03/13	19 - 29	866.34	868.94	19.30	849.64	Unconsolidated
MW-2S	04/14/14	19 - 29	866.34	868.94	22.19	846.75	Unconsolidated
MW-2S	07/08/14	19 - 29	866.34	868.94	18.28	850.66	Unconsolidated
MW-2S	10/13/14	19 - 29	866.34	868.94	19.76	849.18	Unconsolidated
MW-2D	05/01/04	39 - 44	866.50	868.74	25.51	843.23	Upper Lone Rock
MW-2D	07/01/04	39 - 44	866.50	868.74	21.38	847.36	Upper Lone Rock
MW-2D	10/01/04	39 - 44	866.50	868.74	22.85	845.89	Upper Lone Rock
MW-2D	01/01/05	39 - 44	866.50	868.74	23.12	845.62	Upper Lone Rock
MW-2D	03/01/05	39 - 44	866.50	868.74	23.12	845.62	Upper Lone Rock
MW-2D	07/01/05	39 - 44	866.50	868.74	24.63	844.11	Upper Lone Rock
MW-2D	09/01/05	39 - 44	866.50	868.74	26.10	842.64	Upper Lone Rock
MW-2D	12/01/05	39 - 44	866.50	868.74	26.79	841.95	Upper Lone Rock
MW-2D	03/01/06	39 - 44	866.50	868.74	26.33	842.41	Upper Lone Rock
MW-2D	07/01/06	39 - 44	866.50	868.74	23.83	844.91	Upper Lone Rock
MW-2D	10/01/06	39 - 44	866.50	868.74	23.15	845.59	Upper Lone Rock
MW-2D	12/01/06	39 - 44	866.50	868.74	22.70	846.04	Upper Lone Rock
MW-2D	03/01/07	39 - 44	866.50	868.74	22.58	846.16	Upper Lone Rock
MW-2D	08/01/07	39 - 44	866.50	868.74	22.67	846.07	Upper Lone Rock
MW-2D	09/01/07	39 - 44	866.50	868.74	20.43	848.31	Upper Lone Rock
MW-2D	12/01/07	39 - 44	866.50	868.74	21.96	846.78	Upper Lone Rock
MW-2D	03/01/08	39 - 44	866.50	868.74	19.62	849.12	Upper Lone Rock
MW-2D	06/01/08	39 - 44	866.50	868.74	14.80	853.94	Upper Lone Rock
MW-2D	09/01/08	39 - 44	866.50	868.74	19.03	849.71	Upper Lone Rock
MW-2D	12/01/08	39 - 44	866.50	868.74	20.88	847.86	Upper Lone Rock
MW-2D	04/01/09	39 - 44	866.50	868.74	19.25	849.49	Upper Lone Rock
MW-2D	06/01/09	39 - 44	866.50	868.74	18.18	850.56	Upper Lone Rock
MW-2D	09/01/09	39 - 44	866.50	868.74	20.98	847.76	Upper Lone Rock
MW-2D	12/01/09	39 - 44	866.50	868.74	20.59	848.15	Upper Lone Rock

Notes on Page 19.

Table 2-2
Groundwater Elevations 2004-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well/ Boring	Date	Screen Interval (feet bls)	Ground Elevation (feet amsl)	Top of Casing Elevation (feet amsl)	Depth to Water (feet btoc)	Groundwater Elevation (feet amsl)	Lithology
MW-2D	07/01/10	39 - 44	866.50	868.74	18.66	850.08	Upper Lone Rock
MW-2D	10/01/10	39 - 44	866.50	868.74	18.81	849.93	Upper Lone Rock
MW-2D	12/01/10	39 - 44	866.50	868.74	20.33	848.41	Upper Lone Rock
MW-2D	04/09/12	39 - 44	866.50	868.74	21.97	846.77	Upper Lone Rock
MW-2D	07/23/12	39 - 44	866.50	868.74	23.20	845.54	Upper Lone Rock
MW-2D	11/30/12	39 - 44	866.50	868.74	23.65	845.09	Upper Lone Rock
MW-2D	01/14/13	39 - 44	866.50	868.74	23.83	844.91	Upper Lone Rock
MW-2D	04/15/13	39 - 44	866.50	868.74	20.63	848.11	Upper Lone Rock
MW-2D	07/15/13	39 - 44	866.50	868.74	16.86	851.88	Upper Lone Rock
MW-2D	10/03/13	39 - 44	866.50	868.74	19.64	849.10	Upper Lone Rock
MW-2D	04/14/14	39 - 44	866.50	868.74	22.05	846.69	Upper Lone Rock
MW-2D	07/08/14	39 - 44	866.50	868.74	18.39	850.35	Upper Lone Rock
MW-2D	10/13/14	39 - 44	866.50	868.74	19.95	848.79	Upper Lone Rock
MW-3S	05/01/04	19 - 29	867.87	867.41	23.54	843.87	Unconsolidated
MW-3S	07/01/04	19 - 29	867.87	867.41	19.35	848.06	Unconsolidated
MW-3S	10/01/04	19 - 29	867.87	867.41	20.83	846.58	Unconsolidated
MW-3S	01/01/05	19 - 29	867.87	867.41	21.36	846.05	Unconsolidated
MW-3S	03/01/05	19 - 29	867.87	867.41	21.39	846.02	Unconsolidated
MW-3S	07/01/05	19 - 29	867.87	867.41	22.63	844.78	Unconsolidated
MW-3S	09/01/05	19 - 29	867.87	867.41	24.12	843.29	Unconsolidated
MW-3S	12/01/05	19 - 29	867.87	867.41	24.92	842.49	Unconsolidated
MW-3S	03/01/06	19 - 29	867.87	867.41	24.64	842.77	Unconsolidated
MW-3S	07/01/06	19 - 29	867.87	867.41	21.87	845.54	Unconsolidated
MW-3S	10/01/06	19 - 29	867.87	867.41	21.25	846.16	Unconsolidated
MW-3S	12/01/06	19 - 29	867.87	867.41	21.04	846.37	Unconsolidated
MW-3S	03/01/07	19 - 29	867.87	867.41	20.98	846.43	Unconsolidated
MW-3S	05/01/07	19 - 29	867.87	867.41	19.09	848.32	Unconsolidated
MW-3S	08/01/07	19 - 29	867.87	867.41	20.81	846.60	Unconsolidated
MW-3S	09/01/07	19 - 29	867.87	867.41	18.69	848.72	Unconsolidated
MW-3S	12/01/07	19 - 29	867.87	867.41	20.60	846.81	Unconsolidated
MW-3S	03/01/08	19 - 29	867.87	867.41	18.06	849.35	Unconsolidated
MW-3S	06/01/08	19 - 29	867.87	867.41	13.58	853.83	Unconsolidated
MW-3S	09/01/08	19 - 29	867.87	867.41	16.98	850.43	Unconsolidated
MW-3S	12/01/08	19 - 29	867.87	867.41	19.23	848.18	Unconsolidated
MW-3S	04/01/09	19 - 29	867.87	867.41	17.53	849.88	Unconsolidated
MW-3S	06/01/09	19 - 29	867.87	867.41	16.35	851.06	Unconsolidated
MW-3S	09/01/09	19 - 29	867.87	867.41	18.95	848.46	Unconsolidated
MW-3S	12/01/09	19 - 29	867.87	867.41	19.12	848.29	Unconsolidated
MW-3S	07/01/10	19 - 29	867.87	867.41	16.96	850.45	Unconsolidated
MW-3S	10/01/10	19 - 29	867.87	867.41	16.91	850.50	Unconsolidated
MW-3S	04/09/12	19 - 29	867.87	867.41	20.31	847.10	Unconsolidated
MW-3S	07/23/12	19 - 29	867.87	867.41	21.39	846.02	Unconsolidated
MW-3S	11/30/12	19 - 29	867.87	867.41	22.15	845.26	Unconsolidated
MW-3S	01/14/13	19 - 29	867.87	867.41	22.28	845.13	Unconsolidated
MW-3S	04/15/13	19 - 29	867.87	867.41	19.10	848.31	Unconsolidated
MW-3S	07/15/13	19 - 29	867.87	867.41	15.10	852.31	Unconsolidated

Notes on Page 19.

Table 2-2
Groundwater Elevations 2004-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well/ Boring	Date	Screen Interval (feet bls)	Ground Elevation (feet amsl)	Top of Casing Elevation (feet amsl)	Depth to Water (feet btoc)	Groundwater Elevation (feet amsl)	Lithology
MW-3S	10/03/13	19 - 29	867.87	867.41	17.78	849.63	Unconsolidated
MW-3S	04/14/14	19 - 29	867.87	867.41	20.45	846.96	Unconsolidated
MW-3S	07/08/14	19 - 29	867.87	867.41	16.85	850.56	Unconsolidated
MW-3S	10/13/14	19 - 29	867.87	867.41	18.21	849.20	Unconsolidated
MW-3D	01/01/05	48 - 53	867.68	867.25	21.68	845.57	Upper Lone Rock
MW-3D	03/01/05	48 - 53	867.68	867.25	21.45	845.80	Upper Lone Rock
MW-3D	07/01/05	48 - 53	867.68	867.25	23.01	844.24	Upper Lone Rock
MW-3D	09/01/05	48 - 53	867.68	867.25	24.39	842.86	Upper Lone Rock
MW-3D	12/01/05	48 - 53	867.68	867.25	25.15	842.10	Upper Lone Rock
MW-3D	03/01/06	48 - 53	867.68	867.25	24.56	842.69	Upper Lone Rock
MW-3D	07/01/06	48 - 53	867.68	867.25	22.11	845.14	Upper Lone Rock
MW-3D	10/01/06	48 - 53	867.68	867.25	21.78	845.47	Upper Lone Rock
MW-3D	12/01/06	48 - 53	867.68	867.25	21.18	846.07	Upper Lone Rock
MW-3D	03/01/07	48 - 53	867.68	867.25	20.86	846.39	Upper Lone Rock
MW-3D	05/01/07	48 - 53	867.68	867.25	19.11	848.14	Upper Lone Rock
MW-3D	08/01/07	48 - 53	867.68	867.25	21.11	846.14	Upper Lone Rock
MW-3D	09/01/07	48 - 53	867.68	867.25	19.05	848.20	Upper Lone Rock
MW-3D	12/01/07	48 - 53	867.68	867.25	21.22	846.03	Upper Lone Rock
MW-3D	03/01/08	48 - 53	867.68	867.25	18.01	849.24	Upper Lone Rock
MW-3D	06/01/08	48 - 53	867.68	867.25	13.68	853.57	Upper Lone Rock
MW-3D	09/01/08	48 - 53	867.68	867.25	17.89	849.36	Upper Lone Rock
MW-3D	12/01/08	48 - 53	867.68	867.25	19.48	847.77	Upper Lone Rock
MW-3D	04/01/09	48 - 53	867.68	867.25	17.52	849.73	Upper Lone Rock
MW-3D	06/01/09	48 - 53	867.68	867.25	17.11	850.14	Upper Lone Rock
MW-3D	09/01/09	48 - 53	867.68	867.25	19.61	847.64	Upper Lone Rock
MW-3D	12/01/09	48 - 53	867.68	867.25	19.10	848.15	Upper Lone Rock
MW-3D	07/01/10	48 - 53	867.68	867.25	17.16	850.09	Upper Lone Rock
MW-3D	10/01/10	48 - 53	867.68	867.25	17.50	849.75	Upper Lone Rock
MW-3D	04/09/12	48 - 53	867.68	867.25	20.38	846.87	Upper Lone Rock
MW-3D	07/23/12	48 - 53	867.68	867.25	21.80	845.45	Upper Lone Rock
MW-3D	11/30/12	48 - 53	867.68	867.25	22.27	844.98	Upper Lone Rock
MW-3D	01/14/13	48 - 53	867.68	867.25	22.28	844.97	Upper Lone Rock
MW-3D	04/15/13	48 - 53	867.68	867.25	18.90	848.35	Upper Lone Rock
MW-3D	07/15/13	48 - 53	867.68	867.25	16.00	851.25	Upper Lone Rock
MW-3D	10/03/13	48 - 53	867.68	867.25	18.61	848.64	Upper Lone Rock
MW-3D	04/14/14	48 - 53	867.68	867.25	20.52	846.73	Upper Lone Rock
MW-3D	07/08/14	48 - 53	867.68	867.25	17.07	850.18	Upper Lone Rock
MW-3D	10/13/14	48 - 53	867.68	867.25	18.54	848.71	Upper Lone Rock
MW-3D2	01/01/05	76 - 81	867.58	867.39	22.57	844.82	Lower Lone Rock
MW-3D2	03/01/05	76 - 81	867.58	867.39	22.37	845.02	Lower Lone Rock
MW-3D2	07/01/05	76 - 81	867.58	867.39	24.11	843.28	Lower Lone Rock
MW-3D2	09/01/05	76 - 81	867.58	867.39	25.31	842.08	Lower Lone Rock
MW-3D2	12/01/05	76 - 81	867.58	867.39	25.84	841.55	Lower Lone Rock
MW-3D2	03/01/06	76 - 81	867.58	867.39	25.19	842.20	Lower Lone Rock
MW-3D2	07/01/06	76 - 81	867.58	867.39	23.10	844.29	Lower Lone Rock
MW-3D2	10/01/06	76 - 81	867.58	867.39	23.66	843.73	Lower Lone Rock

Notes on Page 19.

Table 2-2
Groundwater Elevations 2004-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well/ Boring	Date	Screen Interval (feet bls)	Ground Elevation (feet amsl)	Top of Casing Elevation (feet amsl)	Depth to Water (feet btoc)	Groundwater Elevation (feet amsl)	Lithology
MW-3D2	12/01/06	76 - 81	867.58	867.39	21.87	845.52	Lower Lone Rock
MW-3D2	03/01/07	76 - 81	867.58	867.39	21.73	845.66	Lower Lone Rock
MW-3D2	05/01/07	76 - 81	867.58	867.39	20.15	847.24	Lower Lone Rock
MW-3D2	08/01/07	76 - 81	867.58	867.39	22.10	845.29	Lower Lone Rock
MW-3D2	09/01/07	76 - 81	867.58	867.39	20.04	847.35	Lower Lone Rock
MW-3D2	12/01/07	76 - 81	867.58	867.39	20.37	847.02	Lower Lone Rock
MW-3D2	03/01/08	76 - 81	867.58	867.39	18.95	848.44	Lower Lone Rock
MW-3D2	06/01/08	76 - 81	867.58	867.39	14.90	852.49	Lower Lone Rock
MW-3D2	09/01/08	76 - 81	867.58	867.39	18.96	848.43	Lower Lone Rock
MW-3D2	12/01/08	76 - 81	867.58	867.39	20.43	846.96	Lower Lone Rock
MW-3D2	04/01/09	76 - 81	867.58	867.39	18.70	848.69	Lower Lone Rock
MW-3D2	06/01/09	76 - 81	867.58	867.39	18.05	849.34	Lower Lone Rock
MW-3D2	09/01/09	76 - 81	867.58	867.39	20.60	846.79	Lower Lone Rock
MW-3D2	12/01/09	76 - 81	867.58	867.39	19.86	847.53	Lower Lone Rock
MW-3D2	07/01/10	76 - 81	867.58	867.39	18.34	849.05	Lower Lone Rock
MW-3D2	10/01/10	76 - 81	867.58	867.39	18.61	848.78	Lower Lone Rock
MW-3D2	04/09/12	76 - 81	867.58	867.39	21.09	846.30	Lower Lone Rock
MW-3D2	07/23/12	76 - 81	867.58	867.39	22.71	844.68	Lower Lone Rock
MW-3D2	11/30/12	76 - 81	867.58	867.39	22.64	844.75	Lower Lone Rock
MW-3D2	01/14/13	76 - 81	867.58	867.39	22.70	844.69	Lower Lone Rock
MW-3D2	04/15/13	76 - 81	867.58	867.39	19.36	848.03	Lower Lone Rock
MW-3D2	07/15/13	76 - 81	867.58	867.39	16.79	850.60	Lower Lone Rock
MW-3D2	10/03/13	76 - 81	867.58	867.39	19.22	848.17	Lower Lone Rock
MW-3D2	04/14/14	76 - 81	867.58	867.39	21.02	846.37	Lower Lone Rock
MW-3D2	07/08/14	76 - 81	867.58	867.39	17.85	849.54	Lower Lone Rock
MW-3D2	10/13/14	76 - 81	867.58	867.39	19.44	847.95	Lower Lone Rock
MW-3D3	07/23/12	214 - 224	867.61	867.35	25.38	841.97	Lower Wonewoc/Upper Eau Claire
MW-3D3	11/30/12	214 - 224	867.61	867.35	23.84	843.51	Lower Wonewoc/Upper Eau Claire
MW-3D3	01/14/13	214 - 224	867.61	867.35	23.85	843.50	Lower Wonewoc/Upper Eau Claire
MW-3D3	04/15/13	214 - 224	867.61	867.35	21.13	846.22	Lower Wonewoc/Upper Eau Claire
MW-3D3	07/15/13	214 - 224	867.61	867.35	20.60	846.75	Lower Wonewoc/Upper Eau Claire
MW-3D3	10/03/13	214 - 224	867.61	867.35	21.44	845.91	Lower Wonewoc/Upper Eau Claire
MW-3D3	04/14/14	214 - 224	867.61	867.35	22.60	844.75	Lower Wonewoc/Upper Eau Claire
MW-3D3	07/08/14	214 - 224	867.61	867.35	20.53	846.82	Lower Wonewoc/Upper Eau Claire
MW-3D3	10/13/14	214 - 224	867.61	867.35	21.59	845.76	Lower Wonewoc/Upper Eau Claire
MW-4S	05/01/04	35 - 50	880.81	880.31	37.14	843.17	Unconsolidated/Upper Lone Rock
MW-4S	07/01/04	35 - 50	880.81	880.31	32.60	847.71	Unconsolidated/Upper Lone Rock
MW-4S	10/01/04	35 - 50	880.81	880.31	33.47	846.84	Unconsolidated/Upper Lone Rock
MW-4S	01/01/05	35 - 50	880.81	880.31	34.10	846.21	Unconsolidated/Upper Lone Rock
MW-4S	03/01/05	35 - 50	880.81	880.31	34.46	845.85	Unconsolidated/Upper Lone Rock
MW-4S	07/01/05	35 - 50	880.81	880.31	35.61	844.70	Unconsolidated/Upper Lone Rock
MW-4S	09/01/05	35 - 50	880.81	880.31	36.85	843.46	Unconsolidated/Upper Lone Rock
MW-4S	12/01/05	35 - 50	880.81	880.31	37.75	842.56	Unconsolidated/Upper Lone Rock
MW-4S	03/01/06	35 - 50	880.81	880.31	37.93	842.38	Unconsolidated/Upper Lone Rock
MW-4S	07/01/06	35 - 50	880.81	880.31	35.10	845.21	Unconsolidated/Upper Lone Rock
MW-4S	10/01/06	35 - 50	880.81	880.31	34.17	846.14	Unconsolidated/Upper Lone Rock

Notes on Page 19.

Table 2-2
Groundwater Elevations 2004-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well/ Boring	Date	Screen Interval (feet bls)	Ground Elevation (feet amsl)	Top of Casing Elevation (feet amsl)	Depth to Water (feet btoc)	Groundwater Elevation (feet amsl)	Lithology
MW-4S	12/01/06	35 - 50	880.81	880.31	33.86	846.45	Unconsolidated/Upper Lone Rock
MW-4S	03/01/07	35 - 50	880.81	880.31	33.72	846.59	Unconsolidated/Upper Lone Rock
MW-4S	08/01/07	35 - 50	880.81	880.31	32.98	847.33	Unconsolidated/Upper Lone Rock
MW-4S	09/01/07	35 - 50	880.81	880.31	31.08	849.23	Unconsolidated/Upper Lone Rock
MW-4S	12/01/07	35 - 50	880.81	880.31	31.86	848.45	Unconsolidated/Upper Lone Rock
MW-4S	03/01/08	35 - 50	880.81	880.31	30.88	849.43	Unconsolidated/Upper Lone Rock
MW-4S	06/01/08	35 - 50	880.81	880.31	25.51	854.80	Unconsolidated/Upper Lone Rock
MW-4S	09/01/08	35 - 50	880.81	880.31	28.43	851.88	Unconsolidated/Upper Lone Rock
MW-4S	12/01/08	35 - 50	880.81	880.31	30.94	849.37	Unconsolidated/Upper Lone Rock
MW-4S	04/01/09	35 - 50	880.81	880.31	31.44	848.87	Unconsolidated/Upper Lone Rock
MW-4S	06/01/09	35 - 50	880.81	880.31	28.72	851.59	Unconsolidated/Upper Lone Rock
MW-4S	09/01/09	35 - 50	880.81	880.31	33.53	846.78	Unconsolidated/Upper Lone Rock
MW-4S	07/01/10	35 - 50	880.81	880.31	29.70	850.61	Unconsolidated/Upper Lone Rock
MW-4S	10/01/10	35 - 50	880.81	880.31	28.99	851.32	Unconsolidated/Upper Lone Rock
MW-4S	12/01/10	35 - 50	880.81	880.31	30.86	849.45	Unconsolidated/Upper Lone Rock
MW-4S	04/09/12	35 - 50	880.81	880.31	33.21	847.10	Unconsolidated/Upper Lone Rock
MW-4S	07/23/12	35 - 50	880.81	880.31	33.89	846.42	Unconsolidated/Upper Lone Rock
MW-4S	11/30/12	35 - 50	880.81	880.31	34.57	845.74	Unconsolidated/Upper Lone Rock
MW-4S	01/14/13	35 - 50	880.81	880.31	34.89	845.42	Unconsolidated/Upper Lone Rock
MW-4S	04/15/13	35 - 50	880.81	880.31	32.47	847.84	Unconsolidated/Upper Lone Rock
MW-4S	07/15/13	35 - 50	880.81	880.31	27.45	852.86	Unconsolidated/Upper Lone Rock
MW-4S	10/03/13	35 - 50	880.81	880.31	29.50	850.81	Unconsolidated/Upper Lone Rock
MW-4S	04/14/14	35 - 50	880.81	880.31	33.27	847.04	Unconsolidated/Upper Lone Rock
MW-4S	07/08/14	35 - 50	880.81	880.31	29.61	850.70	Unconsolidated/Upper Lone Rock
MW-4S	10/13/14	35 - 50	880.81	880.31	30.10	850.21	Unconsolidated/Upper Lone Rock
MW-4D	05/01/04	65 - 70	881.18	880.38	37.81	842.57	Lower Lone Rock
MW-4D	07/01/04	65 - 70	881.18	880.38	33.72	846.66	Lower Lone Rock
MW-4D	10/01/04	65 - 70	881.18	880.38	35.10	845.28	Lower Lone Rock
MW-4D	01/01/05	65 - 70	881.18	880.38	35.50	844.88	Lower Lone Rock
MW-4D	03/01/05	65 - 70	881.18	880.38	35.42	844.96	Lower Lone Rock
MW-4D	09/01/05	65 - 70	881.18	880.38	38.28	842.10	Lower Lone Rock
MW-4D	12/01/05	65 - 70	881.18	880.38	39.00	841.38	Lower Lone Rock
MW-4D	03/01/06	65 - 70	881.18	880.38	38.66	841.72	Lower Lone Rock
MW-4D	07/01/06	65 - 70	881.18	880.38	36.32	844.06	Lower Lone Rock
MW-4D	10/01/06	65 - 70	881.18	880.38	35.58	844.80	Lower Lone Rock
MW-4D	12/01/06	65 - 70	881.18	880.38	34.96	845.42	Lower Lone Rock
MW-4D	03/01/07	65 - 70	881.18	880.38	34.95	845.43	Lower Lone Rock
MW-4D	08/01/07	65 - 70	881.18	880.38	35.03	845.35	Lower Lone Rock
MW-4D	09/01/07	65 - 70	881.18	880.38	32.70	847.68	Lower Lone Rock
MW-4D	12/01/07	65 - 70	881.18	880.38	34.03	846.35	Lower Lone Rock
MW-4D	03/01/08	65 - 70	881.18	880.38	32.26	848.12	Lower Lone Rock
MW-4D	06/01/08	65 - 70	881.18	880.38	27.05	853.33	Lower Lone Rock
MW-4D	09/01/08	65 - 70	881.18	880.38	31.22	849.16	Lower Lone Rock
MW-4D	12/01/08	65 - 70	881.18	880.38	33.03	847.35	Lower Lone Rock
MW-4D	04/01/09	65 - 70	881.18	880.38	30.79	849.59	Lower Lone Rock
MW-4D	06/01/09	65 - 70	881.18	880.38	30.55	849.83	Lower Lone Rock
MW-4D	07/01/10	65 - 70	881.18	880.38	31.03	849.35	Lower Lone Rock

Notes on Page 19.

Table 2-2
Groundwater Elevations 2004-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well/ Boring	Date	Screen Interval (feet bls)	Ground Elevation (feet amsl)	Top of Casing Elevation (feet amsl)	Depth to Water (feet btoc)	Groundwater Elevation (feet amsl)	Lithology
MW-4D	10/01/10	65 - 70	881.18	880.38	30.96	849.42	Lower Lone Rock
MW-4D	12/01/10	65 - 70	881.18	880.38	32.46	847.92	Lower Lone Rock
MW-4D	04/09/12	65 - 70	881.18	880.38	34.26	846.12	Lower Lone Rock
MW-4D	07/23/12	65 - 70	881.18	880.38	35.50	844.88	Lower Lone Rock
MW-4D	11/30/12	65 - 70	881.18	880.38	35.59	844.79	Lower Lone Rock
MW-4D	01/14/13	65 - 70	881.18	880.38	35.87	844.51	Lower Lone Rock
MW-4D	04/15/13	65 - 70	881.18	880.38	32.99	847.39	Lower Lone Rock
MW-4D	07/15/13	65 - 70	881.18	880.38	29.08	851.30	Lower Lone Rock
MW-4D	10/03/13	65 - 70	881.18	880.38	31.79	848.59	Lower Lone Rock
MW-4D	04/14/14	65 - 70	881.18	880.38	34.38	846.00	Lower Lone Rock
MW-4D	07/08/14	65 - 70	881.18	880.38	30.66	849.72	Lower Lone Rock
MW-4D	10/13/14	65 - 70	881.18	880.38	31.97	848.41	Lower Lone Rock
MW-4D2	05/01/04	91 - 96	880.36	880.20	37.57	842.63	Lower Lone Rock
MW-4D2	07/01/04	91 - 96	880.36	880.20	34.06	846.14	Lower Lone Rock
MW-4D2	10/01/04	91 - 96	880.36	880.20	35.43	844.77	Lower Lone Rock
MW-4D2	01/01/05	91 - 96	880.36	880.20	35.68	844.52	Lower Lone Rock
MW-4D2	03/01/05	91 - 96	880.36	880.20	35.56	844.64	Lower Lone Rock
MW-4D2	09/01/05	91 - 96	880.36	880.20	38.53	841.67	Lower Lone Rock
MW-4D2	12/01/05	91 - 96	880.36	880.20	39.05	841.15	Lower Lone Rock
MW-4D2	03/01/06	91 - 96	880.36	880.20	38.62	841.58	Lower Lone Rock
MW-4D2	07/01/06	91 - 96	880.36	880.20	36.73	843.47	Lower Lone Rock
MW-4D2	10/01/06	91 - 96	880.36	880.20	35.81	844.39	Lower Lone Rock
MW-4D2	12/01/06	91 - 96	880.36	880.20	35.05	845.15	Lower Lone Rock
MW-4D2	03/01/07	91 - 96	880.36	880.20	35.21	844.99	Lower Lone Rock
MW-4D2	08/01/07	91 - 96	880.36	880.20	35.09	845.11	Lower Lone Rock
MW-4D2	09/01/07	91 - 96	880.36	880.20	32.98	847.22	Lower Lone Rock
MW-4D2	12/01/07	91 - 96	880.36	880.20	33.76	846.44	Lower Lone Rock
MW-4D2	03/01/08	91 - 96	880.36	880.20	32.60	847.60	Lower Lone Rock
MW-4D2	06/01/08	91 - 96	880.36	880.20	28.12	852.08	Lower Lone Rock
MW-4D2	09/01/08	91 - 96	880.36	880.20	31.61	848.59	Lower Lone Rock
MW-4D2	12/01/08	91 - 96	880.36	880.20	33.20	847.00	Lower Lone Rock
MW-4D2	04/01/09	91 - 96	880.36	880.20	32.01	848.19	Lower Lone Rock
MW-4D2	06/01/09	91 - 96	880.36	880.20	30.88	849.32	Lower Lone Rock
MW-4D2	07/01/10	91 - 96	880.36	880.20	31.39	848.81	Lower Lone Rock
MW-4D2	10/01/10	91 - 96	880.36	880.20	31.26	848.94	Lower Lone Rock
MW-4D2	12/01/10	91 - 96	880.36	880.20	32.65	847.55	Lower Lone Rock
MW-4D2	04/09/12	91 - 96	880.36	880.20	31.33	848.87	Lower Lone Rock
MW-4D2	07/23/12	91 - 96	880.36	880.20	35.76	844.44	Lower Lone Rock
MW-4D2	11/30/12	91 - 96	880.36	880.20	35.82	844.38	Lower Lone Rock
MW-4D2	01/14/13	91 - 96	880.36	880.20	35.92	844.28	Lower Lone Rock
MW-4D2	04/15/13	91 - 96	880.36	880.20	32.99	847.21	Lower Lone Rock
MW-4D2	07/15/13	91 - 96	880.36	880.20	29.44	850.76	Lower Lone Rock
MW-4D2	10/03/13	91 - 96	880.36	880.20	32.08	848.12	Lower Lone Rock
MW-4D2	04/14/14	91 - 96	880.36	880.20	34.42	845.78	Lower Lone Rock
MW-4D2	07/08/14	91 - 96	880.36	880.20	31.09	849.11	Lower Lone Rock
MW-4D2	10/13/14	91 - 96	880.36	880.20	32.20	848.00	Lower Lone Rock

Notes on Page 19.

Table 2-2
Groundwater Elevations 2004-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well/ Boring	Date	Screen Interval (feet bls)	Ground Elevation (feet amsl)	Top of Casing Elevation (feet amsl)	Depth to Water (feet btoc)	Groundwater Elevation (feet amsl)	Lithology
MW-5S	05/01/04	34 - 44	872.56	872.14	28.68	843.46	Upper Lone Rock
MW-5S	07/01/04	34 - 44	872.56	872.14	24.68	847.46	Upper Lone Rock
MW-5S	10/01/04	34 - 44	872.56	872.14	26.34	845.80	Upper Lone Rock
MW-5S	01/01/05	34 - 44	872.56	872.14	26.66	845.48	Upper Lone Rock
MW-5S	03/01/05	34 - 44	872.56	872.14	26.62	845.52	Upper Lone Rock
MW-5S	07/01/05	34 - 44	872.56	872.14	28.13	844.01	Upper Lone Rock
MW-5S	09/01/05	34 - 44	872.56	872.14	29.54	842.60	Upper Lone Rock
MW-5S	12/01/05	34 - 44	872.56	872.14	30.14	842.00	Upper Lone Rock
MW-5S	03/01/06	34 - 44	872.56	872.14	29.79	842.35	Upper Lone Rock
MW-5S	07/01/06	34 - 44	872.56	872.14	27.32	844.82	Upper Lone Rock
MW-5S	10/01/06	34 - 44	872.56	872.14	26.72	845.42	Upper Lone Rock
MW-5S	12/01/06	34 - 44	872.56	872.14	26.21	845.93	Upper Lone Rock
MW-5S	03/01/07	34 - 44	872.56	872.14	26.04	846.10	Upper Lone Rock
MW-5S	08/01/07	34 - 44	872.56	872.14	26.40	845.74	Upper Lone Rock
MW-5S	09/01/07	34 - 44	872.56	872.14	24.09	848.05	Upper Lone Rock
MW-5S	12/01/07	34 - 44	872.56	872.14	25.55	846.59	Upper Lone Rock
MW-5S	03/01/08	34 - 44	872.56	872.14	23.30	848.84	Upper Lone Rock
MW-5S	06/01/08	34 - 44	872.56	872.14	17.98	854.16	Upper Lone Rock
MW-5S	09/01/08	34 - 44	872.56	872.14	18.82	853.32	Upper Lone Rock
MW-5S	12/01/08	34 - 44	872.56	872.14	24.45	847.69	Upper Lone Rock
MW-5S	04/01/09	34 - 44	872.56	872.14	22.43	849.71	Upper Lone Rock
MW-5S	06/01/09	34 - 44	872.56	872.14	21.65	850.49	Upper Lone Rock
MW-5S	09/01/09	34 - 44	872.56	872.14	21.81	850.33	Upper Lone Rock
MW-5S	12/01/09	34 - 44	872.56	872.14	24.10	848.04	Upper Lone Rock
MW-5S	07/01/10	34 - 44	872.56	872.14	22.30	849.84	Upper Lone Rock
MW-5S	10/01/10	34 - 44	872.56	872.14	21.61	850.53	Upper Lone Rock
MW-5S	12/01/10	34 - 44	872.56	872.14	23.84	848.30	Upper Lone Rock
MW-5S	04/09/12	34 - 44	872.56	872.14	25.48	846.66	Upper Lone Rock
MW-5S	07/23/12	34 - 44	872.56	872.14	26.73	845.41	Upper Lone Rock
MW-5S	01/14/13	34 - 44	872.56	872.14	27.36	844.78	Upper Lone Rock
MW-5S	04/15/13	34 - 44	872.56	872.14	23.71	848.43	Upper Lone Rock
MW-5S	07/15/13	34 - 44	872.56	872.14	20.10	852.04	Upper Lone Rock
MW-5S	10/03/13	34 - 44	872.56	872.14	23.07	849.07	Upper Lone Rock
MW-5S	04/14/14	34 - 44	872.56	872.14	25.70	846.44	Upper Lone Rock
MW-5S	07/08/14	34 - 44	872.56	872.14	21.43	850.71	Upper Lone Rock
MW-5S	10/13/14	34 - 44	872.56	872.14	23.63	848.51	Upper Lone Rock
MW-5D	05/01/04	75 - 80	872.58	872.10	29.12	842.98	Lower Lone Rock
MW-5D	07/01/04	75 - 80	872.58	872.10	25.21	846.89	Lower Lone Rock
MW-5D	10/01/04	75 - 80	872.58	872.10	26.67	845.43	Lower Lone Rock
MW-5D	01/01/05	75 - 80	872.58	872.10	27.05	845.05	Lower Lone Rock
MW-5D	03/01/05	75 - 80	872.58	872.10	26.91	845.19	Lower Lone Rock
MW-5D	07/01/05	75 - 80	872.58	872.10	28.48	843.62	Lower Lone Rock
MW-5D	09/01/05	75 - 80	872.58	872.10	29.84	842.26	Lower Lone Rock
MW-5D	12/01/05	75 - 80	872.58	872.10	30.38	841.72	Lower Lone Rock
MW-5D	03/01/06	75 - 80	872.58	872.10	29.91	842.19	Lower Lone Rock
MW-5D	07/01/06	75 - 80	872.58	872.10	27.63	844.47	Lower Lone Rock

Notes on Page 19.

Table 2-2
Groundwater Elevations 2004-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well/ Boring	Date	Screen Interval (feet bls)	Ground Elevation (feet amsl)	Top of Casing Elevation (feet amsl)	Depth to Water (feet btoc)	Groundwater Elevation (feet amsl)	Lithology
MW-5D	10/01/06	75 - 80	872.58	872.10	27.06	845.04	Lower Lone Rock
MW-5D	12/01/06	75 - 80	872.58	872.10	26.48	845.62	Lower Lone Rock
MW-5D	03/01/07	75 - 80	872.58	872.10	26.45	845.65	Lower Lone Rock
MW-5D	08/01/07	75 - 80	872.58	872.10	26.60	845.50	Lower Lone Rock
MW-5D	09/01/07	75 - 80	872.58	872.10	24.47	847.63	Lower Lone Rock
MW-5D	12/01/07	75 - 80	872.58	872.10	25.68	846.42	Lower Lone Rock
MW-5D	03/01/08	75 - 80	872.58	872.10	23.61	848.49	Lower Lone Rock
MW-5D	06/01/08	75 - 80	872.58	872.10	18.93	853.17	Lower Lone Rock
MW-5D	09/01/08	75 - 80	872.58	872.10	23.08	849.02	Lower Lone Rock
MW-5D	12/01/08	75 - 80	872.58	872.10	24.85	847.25	Lower Lone Rock
MW-5D	04/01/09	75 - 80	872.58	872.10	23.17	848.93	Lower Lone Rock
MW-5D	06/01/09	75 - 80	872.58	872.10	22.29	849.81	Lower Lone Rock
MW-5D	09/01/09	75 - 80	872.58	872.10	25.20	846.90	Lower Lone Rock
MW-5D	12/01/09	75 - 80	872.58	872.10	24.55	847.55	Lower Lone Rock
MW-5D	07/01/10	75 - 80	872.58	872.10	22.79	849.31	Lower Lone Rock
MW-5D	10/01/10	75 - 80	872.58	872.10	22.91	849.19	Lower Lone Rock
MW-5D	12/01/10	75 - 80	872.58	872.10	24.26	847.84	Lower Lone Rock
MW-5D	04/09/12	75 - 80	872.58	872.10	27.10	845.00	Lower Lone Rock
MW-5D	07/23/12	75 - 80	872.58	872.10	27.15	844.95	Lower Lone Rock
MW-5D	11/30/12	75 - 80	872.58	872.10	27.38	844.72	Lower Lone Rock
MW-5D	01/14/13	75 - 80	872.58	872.10	27.52	844.58	Lower Lone Rock
MW-5D	04/15/13	75 - 80	872.58	872.10	23.41	848.69	Lower Lone Rock
MW-5D	07/15/13	75 - 80	872.58	872.10	20.85	851.25	Lower Lone Rock
MW-5D	10/03/13	75 - 80	872.58	872.10	23.65	848.45	Lower Lone Rock
MW-5D	04/14/14	75 - 80	872.58	872.10	25.91	846.19	Lower Lone Rock
MW-5D	07/08/14	75 - 80	872.58	872.10	22.21	849.89	Lower Lone Rock
MW-5D	10/13/14	75 - 80	872.58	872.10	23.96	848.14	Lower Lone Rock
MW-5D2	05/01/04	165 - 170	872.59	872.20	31.87	840.33	Lower Wonewoc
MW-5D2	07/01/04	165 - 170	872.59	872.20	29.36	842.84	Lower Wonewoc
MW-5D2	10/01/04	165 - 170	872.59	872.20	30.26	841.94	Lower Wonewoc
MW-5D2	01/01/05	165 - 170	872.59	872.20	29.59	842.61	Lower Wonewoc
MW-5D2	03/01/05	165 - 170	872.59	872.20	28.84	843.36	Lower Wonewoc
MW-5D2	07/01/05	165 - 170	872.59	872.20	31.60	840.60	Lower Wonewoc
MW-5D2	09/01/05	165 - 170	872.59	872.20	32.52	839.68	Lower Wonewoc
MW-5D2	12/01/05	165 - 170	872.59	872.20	32.62	839.58	Lower Wonewoc
MW-5D2	03/01/06	165 - 170	872.59	872.20	30.98	841.22	Lower Wonewoc
MW-5D2	07/01/06	165 - 170	872.59	872.20	30.59	841.61	Lower Wonewoc
MW-5D2	10/01/06	165 - 170	872.59	872.20	30.16	842.04	Lower Wonewoc
MW-5D2	12/01/06	165 - 170	872.59	872.20	28.66	843.54	Lower Wonewoc
MW-5D2	03/01/07	165 - 170	872.59	872.20	28.69	843.51	Lower Wonewoc
MW-5D2	08/01/07	165 - 170	872.59	872.20	30.01	842.19	Lower Wonewoc
MW-5D2	09/01/07	165 - 170	872.59	872.20	28.17	844.03	Lower Wonewoc
MW-5D2	12/01/07	165 - 170	872.59	872.20	28.48	843.72	Lower Wonewoc
MW-5D2	03/01/08	165 - 170	872.59	872.20	26.56	845.64	Lower Wonewoc
MW-5D2	06/01/08	165 - 170	872.59	872.20	23.96	848.24	Lower Wonewoc
MW-5D2	09/01/08	165 - 170	872.59	872.20	27.31	844.89	Lower Wonewoc

Notes on Page 19.

Table 2-2
Groundwater Elevations 2004-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well/ Boring	Date	Screen Interval (feet bls)	Ground Elevation (feet amsl)	Top of Casing Elevation (feet amsl)	Depth to Water (feet btoc)	Groundwater Elevation (feet amsl)	Lithology
MW-5D2	12/01/08	165 - 170	872.59	872.20	27.55	844.65	Lower Wonewoc
MW-5D2	04/01/09	165 - 170	872.59	872.20	26.08	846.12	Lower Wonewoc
MW-5D2	06/01/09	165 - 170	872.59	872.20	26.47	845.73	Lower Wonewoc
MW-5D2	09/01/09	165 - 170	872.59	872.20	28.45	843.75	Lower Wonewoc
MW-5D2	12/01/09	165 - 170	872.59	872.20	26.83	845.37	Lower Wonewoc
MW-5D2	07/01/10	165 - 170	872.59	872.20	26.59	845.61	Lower Wonewoc
MW-5D2	10/01/10	165 - 170	872.59	872.20	26.69	845.51	Lower Wonewoc
MW-5D2	12/01/10	165 - 170	872.59	872.20	26.94	845.26	Lower Wonewoc
MW-5D2	04/09/12	165 - 170	872.59	872.20	27.68	844.52	Lower Wonewoc
MW-5D2	07/23/12	165 - 170	872.59	872.20	30.48	841.72	Lower Wonewoc
MW-5D2	11/30/12	165 - 170	872.59	872.20	28.95	843.25	Lower Wonewoc
MW-5D2	01/14/13	165 - 170	872.59	872.20	28.89	843.31	Lower Wonewoc
MW-5D2	04/15/13	165 - 170	872.59	872.20	26.16	846.04	Lower Wonewoc
MW-5D2	07/15/13	165 - 170	872.59	872.20	25.81	846.39	Lower Wonewoc
MW-5D2	10/03/13	165 - 170	872.59	872.20	27.45	844.75	Lower Wonewoc
MW-5D2	04/14/14	165 - 170	872.59	872.20	27.71	844.49	Lower Wonewoc
MW-5D2	07/08/14	165 - 170	872.59	872.20	25.78	846.42	Lower Wonewoc
MW-5D2	10/13/14	165 - 170	872.59	872.20	26.73	845.47	Lower Wonewoc
MW-5D3	07/23/12	225 - 235	872.34	871.89	30.08	841.81	Lower Wonewoc/Upper Eau Claire
MW-5D3	11/30/12	225 - 235	872.34	871.89	28.50	843.39	Lower Wonewoc/Upper Eau Claire
MW-5D3	01/14/13	225 - 235	872.34	871.89	28.47	843.42	Lower Wonewoc/Upper Eau Claire
MW-5D3	04/15/13	225 - 235	872.34	871.89	25.77	846.12	Lower Wonewoc/Upper Eau Claire
MW-5D3	07/15/13	225 - 235	872.34	871.89	25.83	846.06	Lower Wonewoc/Upper Eau Claire
MW-5D3	10/03/13	225 - 235	872.34	871.89	27.02	844.87	Lower Wonewoc/Upper Eau Claire
MW-5D3	04/14/14	225 - 235	872.34	871.89	27.21	844.68	Lower Wonewoc/Upper Eau Claire
MW-5D3	07/08/14	225 - 235	872.34	871.89	25.22	846.67	Lower Wonewoc/Upper Eau Claire
MW-5D3	10/13/14	225 - 235	872.34	871.89	NM	NM	Lower Wonewoc/Upper Eau Claire
MW-6S	05/01/04	32 - 42	877.20	876.69	34.16	842.53	Unconsolidated/ Upper Lone Rock
MW-6S	07/01/04	32 - 42	877.20	876.69	29.87	846.82	Unconsolidated/ Upper Lone Rock
MW-6S	10/01/04	32 - 42	877.20	876.69	31.00	845.69	Unconsolidated/ Upper Lone Rock
MW-6S	01/01/05	32 - 42	877.20	876.69	31.51	845.18	Unconsolidated/ Upper Lone Rock
MW-6S	03/01/05	32 - 42	877.20	876.69	31.93	844.76	Unconsolidated/ Upper Lone Rock
MW-6S	07/01/05	32 - 42	877.20	876.69	33.09	843.60	Unconsolidated/ Upper Lone Rock
MW-6S	09/01/05	32 - 42	877.20	876.69	34.17	842.52	Unconsolidated/ Upper Lone Rock
MW-6S	12/01/05	32 - 42	877.20	876.69	35.83	840.86	Unconsolidated/ Upper Lone Rock
MW-6S	03/01/06	32 - 42	877.20	876.69	34.89	841.80	Unconsolidated/ Upper Lone Rock
MW-6S	07/01/06	32 - 42	877.20	876.69	32.52	844.17	Unconsolidated/ Upper Lone Rock
MW-6S	10/01/06	32 - 42	877.20	876.69	31.81	844.88	Unconsolidated/ Upper Lone Rock
MW-6S	12/01/06	32 - 42	877.20	876.69	31.34	845.35	Unconsolidated/ Upper Lone Rock
MW-6S	03/01/07	32 - 42	877.20	876.69	31.54	845.15	Unconsolidated/ Upper Lone Rock
MW-6S	08/01/07	32 - 42	877.20	876.69	31.96	844.73	Unconsolidated/ Upper Lone Rock
MW-6S	09/01/07	32 - 42	877.20	876.69	28.95	847.74	Unconsolidated/ Upper Lone Rock
MW-6S	12/01/07	32 - 42	877.20	876.69	30.23	846.46	Unconsolidated/ Upper Lone Rock
MW-6S	03/01/08	32 - 42	877.20	876.69	28.84	847.85	Unconsolidated/ Upper Lone Rock
MW-6S	06/01/08	32 - 42	877.20	876.69	24.08	852.61	Unconsolidated/ Upper Lone Rock
MW-6S	09/01/08	32 - 42	877.20	876.69	26.88	849.81	Unconsolidated/ Upper Lone Rock

Notes on Page 19.

Table 2-2
Groundwater Elevations 2004-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well/ Boring	Date	Screen Interval (feet bls)	Ground Elevation (feet amsl)	Top of Casing Elevation (feet amsl)	Depth to Water (feet btoc)	Groundwater Elevation (feet amsl)	Lithology
MW-6S	12/01/08	32 - 42	877.20	876.69	29.09	847.60	Unconsolidated/ Upper Lone Rock
MW-6S	04/01/09	32 - 42	877.20	876.69	28.69	848.00	Unconsolidated/ Upper Lone Rock
MW-6S	06/01/09	32 - 42	877.20	876.69	26.67	850.02	Unconsolidated/ Upper Lone Rock
MW-6S	09/01/09	32 - 42	877.20	876.69	28.95	847.74	Unconsolidated/ Upper Lone Rock
MW-6S	12/01/09	32 - 42	877.20	876.69	29.26	847.43	Unconsolidated/ Upper Lone Rock
MW-6S	07/01/10	32 - 42	877.20	876.69	27.66	849.03	Unconsolidated/ Upper Lone Rock
MW-6S	10/01/10	32 - 42	877.20	876.69	26.91	849.78	Unconsolidated/ Upper Lone Rock
MW-6S	12/01/10	32 - 42	877.20	876.69	28.55	848.14	Unconsolidated/ Upper Lone Rock
MW-6S	04/09/12	32 - 42	877.20	876.69	30.80	845.89	Unconsolidated/ Upper Lone Rock
MW-6S	07/23/12	32 - 42	877.20	876.69	31.40	845.29	Unconsolidated/ Upper Lone Rock
MW-6S	01/14/13	32 - 42	877.20	876.69	32.31	844.38	Unconsolidated/ Upper Lone Rock
MW-6S	04/15/13	32 - 42	877.20	876.69	30.72	845.97	Unconsolidated/ Upper Lone Rock
MW-6S	07/15/13	32 - 42	877.20	876.69	25.35	851.34	Unconsolidated/ Upper Lone Rock
MW-6S	10/03/13	32 - 42	877.20	876.69	27.61	849.08	Unconsolidated/ Upper Lone Rock
MW-6S	04/14/14	32 - 42	877.20	876.69	30.80	845.89	Unconsolidated/ Upper Lone Rock
MW-6S	07/08/14	32 - 42	877.20	876.69	27.74	848.95	Unconsolidated/ Upper Lone Rock
MW-6S	10/13/14	32 - 42	877.20	876.69	27.74	848.95	Unconsolidated/ Upper Lone Rock
MW-6D	05/01/04	65 - 70	877.11	876.69	34.34	842.35	Lower Lone Rock
MW-6D	07/01/04	65 - 70	877.11	876.69	30.45	846.24	Lower Lone Rock
MW-6D	10/01/04	65 - 70	877.11	876.69	31.72	844.97	Lower Lone Rock
MW-6D	01/01/05	65 - 70	877.11	876.69	32.17	844.52	Lower Lone Rock
MW-6D	03/01/05	65 - 70	877.11	876.69	32.17	844.52	Lower Lone Rock
MW-6D	07/01/05	65 - 70	877.11	876.69	33.70	842.99	Lower Lone Rock
MW-6D	09/01/05	65 - 70	877.11	876.69	34.87	841.82	Lower Lone Rock
MW-6D	12/01/05	65 - 70	877.11	876.69	35.39	841.30	Lower Lone Rock
MW-6D	03/01/06	65 - 70	877.11	876.69	35.06	841.63	Lower Lone Rock
MW-6D	07/01/06	65 - 70	877.11	876.69	33.06	843.63	Lower Lone Rock
MW-6D	10/01/06	65 - 70	877.11	876.69	32.42	844.27	Lower Lone Rock
MW-6D	12/01/06	65 - 70	877.11	876.69	31.72	844.97	Lower Lone Rock
MW-6D	03/01/07	65 - 70	877.11	876.69	31.87	844.82	Lower Lone Rock
MW-6D	08/01/07	65 - 70	877.11	876.69	31.73	844.96	Lower Lone Rock
MW-6D	09/01/07	65 - 70	877.11	876.69	29.64	847.05	Lower Lone Rock
MW-6D	12/01/07	65 - 70	877.11	876.69	30.86	845.83	Lower Lone Rock
MW-6D	03/01/08	65 - 70	877.11	876.69	29.39	847.30	Lower Lone Rock
MW-6D	06/01/08	65 - 70	877.11	876.69	24.50	852.19	Lower Lone Rock
MW-6D	09/01/08	65 - 70	877.11	876.69	28.10	848.59	Lower Lone Rock
MW-6D	12/01/08	65 - 70	877.11	876.69	29.87	846.82	Lower Lone Rock
MW-6D	04/01/09	65 - 70	877.11	876.69	28.93	847.76	Lower Lone Rock
MW-6D	06/01/09	65 - 70	877.11	876.69	27.51	849.18	Lower Lone Rock
MW-6D	09/01/09	65 - 70	877.11	876.69	29.95	846.74	Lower Lone Rock
MW-6D	12/01/09	65 - 70	877.11	876.69	29.70	846.99	Lower Lone Rock
MW-6D	07/01/10	65 - 70	877.11	876.69	28.11	848.58	Lower Lone Rock
MW-6D	10/01/10	65 - 70	877.11	876.69	27.80	848.89	Lower Lone Rock
MW-6D	12/01/10	65 - 70	877.11	876.69	29.24	847.45	Lower Lone Rock
MW-6D	04/09/12	65 - 70	877.11	876.69	31.15	845.54	Lower Lone Rock
MW-6D	07/23/12	65 - 70	877.11	876.69	32.25	844.44	Lower Lone Rock

Notes on Page 19.

Table 2-2
Groundwater Elevations 2004-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well/ Boring	Date	Screen Interval (feet bls)	Ground Elevation (feet amsl)	Top of Casing Elevation (feet amsl)	Depth to Water (feet btoc)	Groundwater Elevation (feet amsl)	Lithology
MW-6D	01/14/13	65 - 70	877.11	876.69	32.38	844.31	Lower Lone Rock
MW-6D	04/15/13	65 - 70	877.11	876.69	30.11	846.58	Lower Lone Rock
MW-6D	07/15/13	65 - 70	877.11	876.69	25.97	850.72	Lower Lone Rock
MW-6D	10/03/13	65 - 70	877.11	876.69	28.65	848.04	Lower Lone Rock
MW-6D	04/14/14	65 - 70	877.11	876.69	31.11	845.58	Lower Lone Rock
MW-6D	07/08/14	65 - 70	877.11	876.69	27.75	848.94	Lower Lone Rock
MW-6D	10/13/14	65 - 70	877.11	876.69	27.62	849.07	Lower Lone Rock
MW-7	04/09/12	25 - 35	870.91	870.42	23.82	846.60	Unconsolidated
MW-7	07/23/12	25 - 35	870.91	870.42	24.91	845.51	Unconsolidated
MW-7	11/30/12	25 - 35	870.91	870.42	25.48	844.94	Unconsolidated
MW-7	01/14/13	25 - 35	870.91	870.42	25.82	844.60	Unconsolidated
MW-7	04/15/13	25 - 35	870.91	870.42	22.64	847.78	Unconsolidated
MW-7	07/15/13	25 - 35	870.91	870.42	17.87	852.55	Unconsolidated
MW-7	10/03/13	25 - 35	870.91	870.42	21.37	849.05	Unconsolidated
MW-7	04/14/14	25 - 35	870.91	870.42	24.15	846.27	Unconsolidated
MW-7	07/08/14	25 - 35	870.91	870.42	19.45	850.97	Unconsolidated
MW-7	10/13/14	25 - 35	870.91	870.42	21.38	849.04	Unconsolidated
MW-8	04/09/12	24 - 34	867.69	866.78	19.74	847.04	Unconsolidated
MW-8	07/23/12	24 - 34	867.69	866.78	21.12	845.66	Unconsolidated
MW-8	11/30/12	24 - 34	867.69	866.78	21.71	845.07	Unconsolidated
MW-8	01/14/13	24 - 34	867.69	866.78	21.97	844.81	Unconsolidated
MW-8	04/15/13	24 - 34	867.69	866.78	17.57	849.21	Unconsolidated
MW-8	07/15/13	24 - 34	867.69	866.78	14.09	852.69	Unconsolidated
MW-8	10/03/13	24 - 34	867.69	866.78	17.63	849.15	Unconsolidated
MW-8	04/14/14	24 - 34	867.69	866.78	20.15	846.63	Unconsolidated
MW-8	07/08/14	24 - 34	867.69	866.78	15.38	851.40	Unconsolidated
MW-8	10/13/14	24 - 34	867.69	866.78	17.65	849.13	Unconsolidated
MW-9D	04/09/12	44 - 49	855.80	855.47	9.33	846.14	Upper Lone Rock
MW-9D	07/23/12	44 - 49	855.80	855.47	11.49	843.98	Upper Lone Rock
MW-9D	01/14/13	44 - 49	855.80	855.47	10.79	844.68	Upper Lone Rock
MW-9D	04/15/13	44 - 49	855.80	855.47	7.57	847.90	Upper Lone Rock
MW-9D	07/15/13	44 - 49	855.80	855.47	6.77	848.70	Upper Lone Rock
MW-9D	10/03/13	44 - 49	855.80	855.47	8.73	846.74	Upper Lone Rock
MW-9D	04/14/14	44 - 49	855.80	855.47	8.93	846.54	Upper Lone Rock
MW-9D	07/08/14	44 - 49	855.80	855.47	6.77	848.70	Upper Lone Rock
MW-9D	10/13/14	44 - 49	855.80	855.47	8.49	846.98	Upper Lone Rock
MW-9D2	04/09/12	64 - 69	855.89	855.48	9.52	845.96	Lower Lone Rock
MW-9D2	07/23/12	64 - 69	855.89	855.48	11.66	843.82	Lower Lone Rock
MW-9D2	01/14/13	64 - 69	855.89	855.48	10.86	844.62	Lower Lone Rock
MW-9D2	04/15/13	64 - 69	855.89	855.48	7.79	847.69	Lower Lone Rock
MW-9D2	07/15/13	64 - 69	855.89	855.48	6.88	848.60	Lower Lone Rock
MW-9D2	10/03/13	64 - 69	855.89	855.48	8.84	846.64	Lower Lone Rock
MW-9D2	04/14/14	64 - 69	855.89	855.48	9.10	846.38	Lower Lone Rock
MW-9D2	07/08/14	64 - 69	855.89	855.48	6.91	848.57	Lower Lone Rock
MW-9D2	10/13/14	64 - 69	855.89	855.48	8.34	847.14	Lower Lone Rock

Notes on Page 19.

Table 2-2
Groundwater Elevations 2004-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well/ Boring	Date	Screen Interval (feet bls)	Ground Elevation (feet amsl)	Top of Casing Elevation (feet amsl)	Depth to Water (feet btoc)	Groundwater Elevation (feet amsl)	Lithology
MW-10S	04/09/12	11 - 21	864.88	864.42	17.21	847.21	Unconsolidated
MW-10S	07/23/12	11 - 21	864.88	864.42	18.31	846.11	Unconsolidated
MW-10S	01/14/13	11 - 21	864.88	864.42	19.30	845.12	Unconsolidated
MW-10S	4/15/2013	11 - 21	864.88	864.42	16.08	848.34	Unconsolidated
MW-10S	07/15/13	11 - 21	864.88	864.42	12.10	852.32	Unconsolidated
MW-10S	10/03/13	11 - 21	864.88	864.42	14.68	849.74	Unconsolidated
MW-10S	04/14/14	11 - 21	864.88	864.42	17.35	847.07	Unconsolidated
MW-10S	07/08/14	11 - 21	864.88	864.42	14.09	850.33	Unconsolidated
MW-10S	10/13/14	11 - 21	864.88	864.42	15.31	849.11	Unconsolidated
MW-11S	04/11/12	24 - 34	874.10	873.47	27.53	845.94	Unconsolidated
MW-11S	07/23/12	24 - 34	874.10	873.47	28.31	845.16	Unconsolidated
MW-11S	11/30/12	24 - 34	874.10	873.47	28.80	844.67	Unconsolidated
MW-11S	01/14/13	24 - 34	874.10	873.47	29.10	844.37	Unconsolidated
MW-11S	04/15/13	24 - 34	874.10	873.47	26.82	846.65	Unconsolidated
MW-11S	07/15/13	24 - 34	874.10	873.47	21.97	851.50	Unconsolidated
MW-11S	10/03/13	24 - 34	874.10	873.47	24.84	848.63	Unconsolidated
MW-11S	04/14/14	24 - 34	874.10	873.47	27.62	845.85	Unconsolidated
MW-11S	07/08/14	24 - 34	874.10	873.47	23.74	849.73	Unconsolidated
MW-11S	10/13/14	24 - 34	874.10	873.47	24.79	848.68	Unconsolidated
MW-12S	04/11/12	3 - 13	859.78	859.41	9.38	850.03	Unconsolidated
MW-12S	07/23/12	3 - 13	859.78	859.41	10.80	848.61	Unconsolidated
MW-12S	11/30/12	3 - 13	859.78	859.41	11.85	847.56	Unconsolidated
MW-12S	01/14/13	3 - 13	859.78	859.41	9.32	850.09	Unconsolidated
MW-12S	04/15/13	3 - 13	859.78	859.41	2.35	857.06	Unconsolidated
MW-12S	07/15/13	3 - 13	859.78	859.41	6.73	852.68	Unconsolidated
MW-12S	10/03/13	3 - 13	859.78	859.41	9.14	850.27	Unconsolidated
MW-12S	04/14/14	3 - 13	859.78	859.41	2.40	857.01	Unconsolidated
MW-12S	07/08/14	3 - 13	859.78	859.41	2.83	856.58	Unconsolidated
MW-12S	10/13/14	3 - 13	859.78	859.41	7.51	851.90	Unconsolidated
MP-13	12/01/12	44 - 48	864.49	863.99	18.50	845.49	Upper Lone Rock
MP-13	01/14/13	44 - 48	864.49	863.99	18.40	845.59	Upper Lone Rock
MP-13	04/17/13	44 - 48	864.49	863.99	14.66	849.33	Upper Lone Rock
MP-13	07/22/13	44 - 48	864.49	863.99	12.44	851.55	Upper Lone Rock
MP-13	10/07/13	44 - 48	864.49	863.99	15.19	848.80	Upper Lone Rock
MP-13	04/16/14	44 - 48	864.49	863.99	16.50	847.49	Upper Lone Rock
MP-13	07/08/14	44 - 48	864.49	863.99	13.55	850.44	Upper Lone Rock
MP-13	10/13/14	44 - 48	864.49	863.99	15.33	848.66	Upper Lone Rock
MP-13	12/01/12	67 - 71	864.49	863.99	18.80	845.19	Lower Lone Rock
MP-13	01/14/13	67 - 71	864.49	863.99	18.77	845.22	Lower Lone Rock
MP-13	04/17/13	67 - 71	864.49	863.99	15.14	848.85	Lower Lone Rock
MP-13	07/22/13	67 - 71	864.49	863.99	13.18	850.81	Lower Lone Rock
MP-13	10/07/13	67 - 71	864.49	863.99	15.79	848.20	Lower Lone Rock
MP-13	04/16/14	67 - 71	864.49	863.99	17.10	846.89	Lower Lone Rock
MP-13	07/08/14	67 - 71	864.49	863.99	14.36	849.63	Lower Lone Rock
MP-13	10/13/14	67 - 71	864.49	863.99	15.90	848.09	Lower Lone Rock

Notes on Page 19.

Table 2-2
Groundwater Elevations 2004-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well/ Boring	Date	Screen Interval (feet bls)	Ground Elevation (feet amsl)	Top of Casing Elevation (feet amsl)	Depth to Water (feet btoc)	Groundwater Elevation (feet amsl)	Lithology
MP-13	12/01/12	81 - 85	864.49	863.99	18.90	845.09	Lower Lone Rock
MP-13	01/14/13	81 - 85	864.49	863.99	18.90	845.09	Lower Lone Rock
MP-13	04/17/13	81 - 85	864.49	863.99	15.37	848.62	Lower Lone Rock
MP-13	07/22/13	81 - 85	864.49	863.99	13.57	850.42	Lower Lone Rock
MP-13	10/07/13	81 - 85	864.49	863.99	16.02	847.97	Lower Lone Rock
MP-13	04/16/14	81 - 85	864.49	863.99	17.31	846.68	Lower Lone Rock
MP-13	07/08/14	81 - 85	864.49	863.99	14.63	849.36	Lower Lone Rock
MP-13	10/13/14	81 - 85	864.49	863.99	16.11	847.88	Lower Lone Rock
MP-13	12/01/12	102 - 106	864.49	863.99	19.90	844.09	Upper Wonewoc
MP-13	01/14/13	102 - 106	864.49	863.99	19.97	844.02	Upper Wonewoc
MP-13	04/17/13	102 - 106	864.49	863.99	16.93	847.06	Upper Wonewoc
MP-13	07/22/13	102 - 106	864.49	863.99	16.40	847.59	Upper Wonewoc
MP-13	10/07/13	102 - 106	864.49	863.99	18.08	845.91	Upper Wonewoc
MP-13	04/16/14	102 - 106	864.49	863.99	18.54	845.45	Upper Wonewoc
MP-13	07/08/14	102 - 106	864.49	863.99	16.60	847.39	Upper Wonewoc
MP-13	10/13/14	102 - 106	864.49	863.99	17.69	846.30	Upper Wonewoc
MP-13	12/01/12	121 - 125	864.49	863.99	20.00	843.99	Upper Wonewoc
MP-13	01/14/13	121 - 125	864.49	863.99	20.01	843.98	Upper Wonewoc
MP-13	04/17/13	121 - 125	864.49	863.99	16.99	847.00	Upper Wonewoc
MP-13	07/22/13	121 - 125	864.49	863.99	16.50	847.49	Upper Wonewoc
MP-13	10/07/13	121 - 125	864.49	863.99	18.14	845.85	Upper Wonewoc
MP-13	04/16/14	121 - 125	864.49	863.99	18.60	845.39	Upper Wonewoc
MP-13	07/08/14	121 - 125	864.49	863.99	16.69	847.30	Upper Wonewoc
MP-13	10/13/14	121 - 125	864.49	863.99	17.71	846.28	Upper Wonewoc
MP-13	12/01/12	135 - 139	864.49	863.99	20.10	843.89	Lower Wonewoc
MP-13	01/14/13	135 - 139	864.49	863.99	20.10	843.89	Lower Wonewoc
MP-13	04/17/13	135 - 139	864.49	863.99	17.10	846.89	Lower Wonewoc
MP-13	07/22/13	135 - 139	864.49	863.99	16.71	847.28	Lower Wonewoc
MP-13	10/07/13	135 - 139	864.49	863.99	18.32	845.67	Lower Wonewoc
MP-13	10/13/14	135 - 139	864.49	863.99	17.70	846.29	Lower Wonewoc
MP-13	12/01/12	163 - 167	864.49	863.99	20.40	843.59	Lower Wonewoc
MP-13	01/14/13	163 - 167	864.49	863.99	20.26	843.73	Lower Wonewoc
MP-13	04/17/13	163 - 167	864.49	863.99	17.37	846.62	Lower Wonewoc
MP-13	07/22/13	163 - 167	864.49	863.99	17.12	846.87	Lower Wonewoc
MP-13	10/07/13	163 - 167	864.49	863.99	18.71	845.28	Lower Wonewoc
MP-13	04/16/14	163 - 167	864.49	863.99	18.12	845.87	Lower Wonewoc
MP-13	07/08/14	163 - 167	864.49	863.99	17.23	846.76	Lower Wonewoc
MP-13	10/13/14	163 - 167	864.49	863.99	18.28	845.71	Lower Wonewoc
MP-14	01/14/13	70 - 75	866.88	867.28	21.73	845.55	Lower Lone Rock
MP-14	04/16/13	70 - 75	866.88	867.28	18.06	849.22	Lower Lone Rock
MP-14	07/22/13	70 - 75	866.88	867.28	15.08	852.20	Lower Lone Rock
MP-14	10/08/13	70 - 75	866.88	867.28	17.97	849.31	Lower Lone Rock
MP-14	04/14/14	70 - 75	866.88	867.28	19.67	847.61	Lower Lone Rock
MP-14	07/08/14	70 - 75	866.88	867.28	16.19	851.09	Lower Lone Rock
MP-14	10/16/14	70 - 75	866.88	867.28	17.94	849.34	Lower Lone Rock

Notes on Page 19.

Table 2-2
Groundwater Elevations 2004-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well/ Boring	Date	Screen Interval (feet bls)	Ground Elevation (feet amsl)	Top of Casing Elevation (feet amsl)	Depth to Water (feet btoc)	Groundwater Elevation (feet amsl)	Lithology
MP-14	01/14/13	100 - 105	866.88	867.28	23.03	844.25	Upper Wonewoc
MP-14	04/16/13	100 - 105	866.88	867.28	19.82	847.46	Upper Wonewoc
MP-14	07/22/13	100 - 105	866.88	867.28	18.83	848.45	Upper Wonewoc
MP-14	10/08/13	100 - 105	866.88	867.28	20.75	846.53	Upper Wonewoc
MP-14	04/14/14	100 - 105	866.88	867.28	21.37	845.91	Upper Wonewoc
MP-14	07/08/14	100 - 105	866.88	867.28	19.02	848.26	Upper Wonewoc
MP-14	10/16/14	100 - 105	866.88	867.28	20.29	846.99	Upper Wonewoc
MP-14	01/14/13	135 - 140	866.88	867.28	23.34	843.94	Lower Wonewoc
MP-14	04/16/13	135 - 140	866.88	867.28	20.15	847.13	Lower Wonewoc
MP-14	07/22/13	135 - 140	866.88	867.28	19.55	847.73	Lower Wonewoc
MP-14	10/08/13	135 - 140	866.88	867.28	21.28	846.00	Lower Wonewoc
MP-14	04/14/14	135 - 140	866.88	867.28	21.70	845.58	Lower Wonewoc
MP-14	07/08/14	135 - 140	866.88	867.28	19.55	847.73	Lower Wonewoc
MP-14	10/16/14	135 - 140	866.88	867.28	20.75	846.53	Lower Wonewoc
MP-14	01/14/13	170 - 178	866.88	867.28	23.57	843.71	Lower Wonewoc
MP-14	04/16/13	170 - 178	866.88	867.28	20.40	846.88	Lower Wonewoc
MP-14	07/22/13	170 - 178	866.88	867.28	20.08	847.20	Lower Wonewoc
MP-14	10/08/13	170 - 178	866.88	867.28	21.74	845.54	Lower Wonewoc
MP-14	04/14/14	170 - 178	866.88	867.28	21.95	845.33	Lower Wonewoc
MP-14	07/08/14	170 - 178	866.88	867.28	19.97	847.31	Lower Wonewoc
MP-14	10/16/14	170 - 178	866.88	867.28	21.12	846.16	Lower Wonewoc
MP-15	01/14/13	88 - 92	855.98	855.50	11.12	844.38	Upper Wonewoc
MP-15	04/15/13	88 - 92	855.98	855.50	3.27	852.23	Upper Wonewoc
MP-15	07/22/13	88 - 92	855.98	855.50	8.05	847.45	Upper Wonewoc
MP-15	10/08/13	88 - 92	855.98	855.50	9.52	845.98	Upper Wonewoc
MP-15	04/15/14	88 - 92	855.98	855.50	9.78	845.72	Upper Wonewoc
MP-15	07/08/14	88 - 92	855.98	855.50	7.84	847.66	Upper Wonewoc
MP-15	10/16/14	88 - 92	855.98	855.50	8.97	846.53	Upper Wonewoc
MP-15	01/14/13	100 - 105	855.98	855.50	11.08	844.42	Upper Wonewoc
MP-15	04/15/13	100 - 105	855.98	855.50	8.27	847.23	Upper Wonewoc
MP-15	07/22/13	100 - 105	855.98	855.50	8.08	847.42	Upper Wonewoc
MP-15	10/08/13	100 - 105	855.98	855.50	9.51	845.99	Upper Wonewoc
MP-15	04/15/14	100 - 105	855.98	855.50	9.74	845.76	Upper Wonewoc
MP-15	07/08/14	100 - 105	855.98	855.50	7.83	847.67	Upper Wonewoc
MP-15	10/16/14	100 - 105	855.98	855.50	8.96	846.54	Upper Wonewoc
MP-15	01/14/13	120 - 125	855.98	855.50	11.15	844.35	Lower Wonewoc
MP-15	04/15/13	120 - 125	855.98	855.50	8.31	847.19	Lower Wonewoc
MP-15	07/22/13	120 - 125	855.98	855.50	8.22	847.28	Lower Wonewoc
MP-15	10/08/13	120 - 125	855.98	855.50	9.65	845.85	Lower Wonewoc
MP-15	04/15/14	120 - 125	855.98	855.50	9.84	845.66	Lower Wonewoc
MP-15	07/08/14	120 - 125	855.98	855.50	7.97	847.53	Lower Wonewoc
MP-15	10/16/14	120 - 125	855.98	855.50	9.05	846.45	Lower Wonewoc
MP-15	01/14/13	142 - 146	855.98	855.50	11.30	844.20	Lower Wonewoc
MP-15	04/15/13	142 - 146	855.98	855.50	8.55	846.95	Lower Wonewoc
MP-15	07/22/13	142 - 146	855.98	855.50	8.60	846.90	Lower Wonewoc
MP-15	10/08/13	142 - 146	855.98	855.50	9.91	845.59	Lower Wonewoc

Notes on Page 19.

Table 2-2
Groundwater Elevations 2004-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well/ Boring	Date	Screen Interval (feet bls)	Ground Elevation (feet amsl)	Top of Casing Elevation (feet amsl)	Depth to Water (feet btoc)	Groundwater Elevation (feet amsl)	Lithology
MP-15	04/15/14	142 - 146	855.98	855.50	10.05	845.45	Lower Wonewoc
MP-15	07/08/14	142 - 146	855.98	855.50	8.28	847.22	Lower Wonewoc
MP-15	10/16/14	142 - 146	855.98	855.50	9.29	846.21	Lower Wonewoc
MP-15	01/14/13	177 - 187	855.98	855.50	11.36	844.14	Lower Wonewoc
MP-15	04/15/13	177 - 187	855.98	855.50	8.63	846.87	Lower Wonewoc
MP-15	07/22/13	177 - 187	855.98	855.50	8.68	846.82	Lower Wonewoc
MP-15	10/08/13	177 - 187	855.98	855.50	10.00	845.50	Lower Wonewoc
MP-15	04/15/14	177 - 187	855.98	855.50	10.13	845.37	Lower Wonewoc
MP-15	07/08/14	177 - 187	855.98	855.50	8.36	847.14	Lower Wonewoc
MP-15	10/16/14	177 - 187	855.98	855.50	9.37	846.13	Lower Wonewoc
MP-16	01/14/13	80 - 84	870.68	870.17	25.79	844.38	Lower Lone Rock
MP-16	04/16/13	80 - 84	870.68	870.17	22.98	847.19	Lower Lone Rock
MP-16	07/23/13	80 - 84	870.68	870.17	19.98	850.19	Lower Lone Rock
MP-16	10/09/13	80 - 84	870.68	870.17	22.65	847.52	Lower Lone Rock
MP-16	04/15/14	80 - 84	870.68	870.17	24.08	846.09	Lower Lone Rock
MP-16	07/08/14	80 - 84	870.68	870.17	20.90	849.27	Lower Lone Rock
MP-16	10/16/14	80 - 84	870.68	870.17	22.19	847.98	Lower Lone Rock
MP-16	01/14/13	106 - 116	870.68	870.17	26.72	843.45	Upper Wonewoc
MP-16	04/16/13	106 - 116	870.68	870.17	23.76	846.41	Upper Wonewoc
MP-16	07/23/13	106 - 116	870.68	870.17	23.07	847.10	Upper Wonewoc
MP-16	10/09/13	106 - 116	870.68	870.17	24.71	845.46	Upper Wonewoc
MP-16	04/15/14	106 - 116	870.68	870.17	25.06	845.11	Upper Wonewoc
MP-16	07/08/14	106 - 116	870.68	870.17	23.09	847.08	Upper Wonewoc
MP-16	10/16/14	106 - 116	870.68	870.17	24.09	846.08	Upper Wonewoc
MP-16	01/14/13	140 - 144	870.68	870.17	26.88	843.29	Lower Wonewoc
MP-16	04/16/13	140 - 144	870.68	870.17	23.90	846.27	Lower Wonewoc
MP-16	07/23/13	140 - 144	870.68	870.17	23.48	846.69	Lower Wonewoc
MP-16	10/08/13	140 - 144	870.68	870.17	24.98	845.19	Lower Wonewoc
MP-16	04/15/14	140 - 144	870.68	870.17	25.19	844.98	Lower Wonewoc
MP-16	07/08/14	140 - 144	870.68	870.17	23.37	846.80	Lower Wonewoc
MP-16	10/16/14	140 - 144	870.68	870.17	24.38	845.79	Lower Wonewoc
MP-16	01/14/13	175 - 179	870.68	870.17	27.13	843.04	Lower Wonewoc
MP-16	04/16/13	175 - 179	870.68	870.17	24.18	845.99	Lower Wonewoc
MP-16	07/23/13	175 - 179	870.68	870.17	24.11	846.06	Lower Wonewoc
MP-16	10/08/13	175 - 179	870.68	870.17	25.38	844.79	Lower Wonewoc
MP-16	04/15/14	175 - 179	870.68	870.17	25.47	844.70	Lower Wonewoc
MP-16	07/08/14	175 - 179	870.68	870.17	23.81	846.36	Lower Wonewoc
MP-16	10/16/14	175 - 179	870.68	870.17	24.78	845.39	Lower Wonewoc
MW-17	01/14/13	160 - 170	877.26	876.65	33.80	842.85	Upper Wonewoc
MW-17	04/15/13	160 - 170	877.26	876.65	30.96	845.69	Upper Wonewoc
MW-17	07/15/13	160 - 170	877.26	876.65	30.48	846.17	Upper Wonewoc
MW-17	10/03/13	160 - 170	877.26	876.65	32.21	844.44	Upper Wonewoc
MW-17	04/14/14	160 - 170	877.26	876.65	32.50	844.15	Upper Wonewoc
MW-17	07/08/14	160 - 170	877.26	876.65	31.80	844.85	Upper Wonewoc
MW-17	10/13/14	160 - 170	877.26	876.65	31.62	845.03	Upper Wonewoc
MW-18S	11/30/12	20 - 30	867.89	867.24	21.89	845.35	Unconsolidated
MW-18S	01/14/13	20 - 30	867.89	867.24	22.02	845.22	Unconsolidated

Notes on Page 19.

Table 2-2
Groundwater Elevations 2004-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well/ Boring	Date	Screen Interval (feet bls)	Ground Elevation (feet amsl)	Top of Casing Elevation (feet amsl)	Depth to Water (feet btoc)	Groundwater Elevation (feet amsl)	Lithology
MW-18S	04/15/13	20 - 30	867.89	867.24	18.79	848.45	Unconsolidated
MW-18S	07/15/13	20 - 30	867.89	867.24	14.70	852.54	Unconsolidated
MW-18S	10/03/13	20 - 30	867.89	867.24	17.44	849.80	Unconsolidated
MW-18S	04/14/14	20 - 30	867.89	867.24	20.08	847.16	Unconsolidated
MW-18S	07/08/14	20 - 30	867.89	867.24	16.53	850.71	Unconsolidated
MW-18S	10/13/14	20 - 30	867.89	867.24	17.91	849.33	Unconsolidated
MW-19D	11/30/12	60 - 90	867.44	866.75	21.93	844.82	Lower Lone Rock
MW-19D	01/14/13	60 - 90	867.44	866.75	21.93	844.82	Lower Lone Rock
MW-19D	04/15/13	60 - 90	867.44	866.75	18.58	848.17	Lower Lone Rock
MW-19D	07/15/13	60 - 90	867.44	866.75	17.93	848.82	Lower Lone Rock
MW-19D	10/03/13	60 - 90	867.44	866.75	18.73	848.02	Lower Lone Rock
MW-19D	04/14/14	60 - 90	867.44	866.75	21.55	845.20	Lower Lone Rock
MW-19D	07/08/14	60 - 90	867.44	866.75	19.40	847.35	Lower Lone Rock
MW-19D	10/13/14	60 - 90	867.44	866.75	18.53	848.22	Lower Lone Rock
MW-19D2	11/30/12	110 - 140	867.44	866.71	23.11	843.60	Upper Wonewoc
MW-19D2	01/14/13	110 - 140	867.44	866.71	23.06	843.65	Upper Wonewoc
MW-19D2	04/15/13	110 - 140	867.44	866.71	20.28	846.43	Upper Wonewoc
MW-19D2	07/15/13	110 - 140	867.44	866.71	19.67	847.04	Upper Wonewoc
MW-19D2	10/03/13	110 - 140	867.44	866.71	21.38	845.33	Upper Wonewoc
MW-19D2	04/14/14	110 - 140	867.44	866.71	20.15	846.56	Upper Wonewoc
MW-19D2	07/08/14	110 - 140	867.44	866.71	17.08	849.63	Upper Wonewoc
MW-19D2	10/13/14	110 - 140	867.44	866.71	20.64	846.07	Upper Wonewoc
MW-20D	11/30/12	60 - 90	867.36	866.96	22.09	844.87	Lower Lone Rock
MW-20D	01/14/13	60 - 90	867.36	866.96	22.09	844.87	Lower Lone Rock
MW-20D	04/15/13	60 - 90	867.36	866.96	18.80	848.16	Lower Lone Rock
MW-20D	07/15/13	60 - 90	867.36	866.96	16.15	850.81	Lower Lone Rock
MW-20D	10/03/13	60 - 90	867.36	866.96	18.61	848.35	Lower Lone Rock
MW-20D	04/14/14	60 - 90	867.36	866.96	20.44	846.52	Lower Lone Rock
MW-20D	07/08/14	60 - 90	867.36	866.96	17.21	849.75	Lower Lone Rock
MW-20D	10/13/14	60 - 90	867.36	866.96	18.89	848.07	Lower Lone Rock
MW-20D2	11/30/12	110 - 140	867.36	867.04	23.32	843.72	Upper Wonewoc
MW-20D2	01/14/13	110 - 140	867.36	867.04	23.42	843.62	Upper Wonewoc
MW-20D2	04/15/13	110 - 140	867.36	867.04	20.58	846.46	Upper Wonewoc
MW-20D2	07/15/13	110 - 140	867.36	867.04	20.88	846.16	Upper Wonewoc
MW-20D2	10/03/13	110 - 140	867.36	867.04	21.61	845.43	Upper Wonewoc
MW-20D2	04/14/14	110 - 140	867.36	867.04	22.01	845.03	Upper Wonewoc
MW-20D2	07/08/14	110 - 140	867.36	867.04	19.53	847.51	Upper Wonewoc
MW-20D2	10/13/14	110 - 140	867.36	867.04	21.16	845.88	Upper Wonewoc
MW-21D	11/30/12	60 - 90	867.77	867.49	22.56	844.93	Lower Lone Rock
MW-21D	01/14/13	60 - 90	867.77	867.49	22.60	844.89	Lower Lone Rock
MW-21D	04/15/13	60 - 90	867.77	867.49	19.27	848.22	Lower Lone Rock
MW-21D	07/15/13	60 - 90	867.77	867.49	16.60	850.89	Lower Lone Rock
MW-21D	10/03/13	60 - 90	867.77	867.49	19.02	848.47	Lower Lone Rock
MW-21D	04/14/14	60 - 90	867.77	867.49	20.87	846.62	Lower Lone Rock
MW-21D	07/08/14	60 - 90	867.77	867.49	17.64	849.85	Lower Lone Rock
MW-21D	10/13/14	60 - 90	867.77	867.49	19.25	848.24	Lower Lone Rock

Notes on Page 19.

Table 2-2
Groundwater Elevations 2004-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well/ Boring	Date	Screen Interval (feet bls)	Ground Elevation (feet amsl)	Top of Casing Elevation (feet amsl)	Depth to Water (feet btoc)	Groundwater Elevation (feet amsl)	Lithology
MW-21D2	11/30/12	110 - 170	867.77	867.46	23.85	843.61	Upper Wonewoc
MW-21D2	01/14/13	110 - 170	867.77	867.46	23.79	843.67	Upper Wonewoc
MW-21D2	04/15/13	110 - 170	867.77	867.46	21.05	846.41	Upper Wonewoc
MW-21D2	07/15/13	110 - 170	867.77	867.46	20.50	846.96	Upper Wonewoc
MW-21D2	10/03/13	110 - 170	867.77	867.46	22.12	845.34	Upper Wonewoc
MW-21D2	04/14/14	110 - 170	867.77	867.46	22.44	845.02	Upper Wonewoc
MW-21D2	07/08/14	110 - 170	867.77	867.46	20.17	847.29	Upper Wonewoc
MW-21D2	10/13/14	110 - 170	867.77	867.46	21.50	845.96	Upper Wonewoc
MW-22S	01/14/13	25 - 35	874.45	874.12	29.47	844.65	Unconsolidated
MW-22S	04/15/13	25 - 35	874.45	874.12	26.64	847.48	Unconsolidated
MW-22S	07/15/13	25 - 35	874.45	874.12	22.65	851.47	Unconsolidated
MW-22S	10/03/13	25 - 35	874.45	874.12	25.11	849.01	Unconsolidated
MW-22S	04/14/14	25 - 35	874.45	874.12	27.80	846.32	Unconsolidated
MW-22S	07/08/14	25 - 35	874.45	874.12	24.11	850.01	Unconsolidated
MW-22S	10/13/14	25 - 35	874.45	874.12	25.28	848.84	Unconsolidated
MW-22D	01/14/13	45 - 50	874.45	874.15	29.39	844.76	Upper Lone Rock
MW-22D	04/15/13	45 - 50	874.45	874.15	26.49	847.66	Upper Lone Rock
MW-22D	07/15/13	45 - 50	874.45	874.15	22.55	851.60	Upper Lone Rock
MW-22D	10/03/13	45 - 50	874.45	874.15	23.35	850.80	Upper Lone Rock
MW-22D	04/14/14	45 - 50	874.45	874.15	27.82	846.33	Upper Lone Rock
MW-22D	07/08/14	45 - 50	874.45	874.15	24.14	850.01	Upper Lone Rock
MW-22D	10/13/14	45 - 50	874.45	874.15	25.32	848.83	Upper Lone Rock
MW-23S	01/14/13	25 - 35	874.55	874.20	29.24	844.96	Unconsolidated
MW-23S	04/15/13	25 - 35	874.55	874.20	26.68	847.52	Unconsolidated
MW-23S	07/15/13	25 - 35	874.55	874.20	22.05	852.15	Unconsolidated
MW-23S	10/03/13	25 - 35	874.55	874.20	24.48	849.72	Unconsolidated
MW-23S	04/14/14	25 - 35	874.55	874.20	27.59	846.61	Unconsolidated
MW-23S	07/08/14	25 - 35	874.55	874.20	23.99	850.21	Unconsolidated
MW-23S	10/13/14	25 - 35	874.55	874.20	24.78	849.42	Unconsolidated
MW-23D	01/14/13	45 - 50	874.55	874.27	29.45	844.82	Upper Lone Rock
MW-23D	04/15/13	45 - 50	874.55	874.27	26.62	847.65	Upper Lone Rock
MW-23D	07/15/13	45 - 50	874.55	874.27	22.56	851.71	Upper Lone Rock
MW-23D	10/03/13	45 - 50	874.55	874.27	25.30	848.97	Upper Lone Rock
MW-23D	04/14/14	45 - 50	874.55	874.27	27.87	846.40	Upper Lone Rock
MW-23D	07/08/14	45 - 50	874.55	874.27	24.19	850.08	Upper Lone Rock
MW-23D	10/13/14	45 - 50	874.55	874.27	25.44	848.83	Upper Lone Rock
MW-24	04/29/13	30 - 40	876.66	876.41	29.36	847.05	Upper Lone Rock
MW-24	07/15/13	30 - 40	876.66	876.41	24.71	851.70	Upper Lone Rock
MW-24	10/03/13	30 - 40	876.66	876.41	27.39	849.02	Upper Lone Rock
MW-24	04/14/14	30 - 40	876.66	876.41	30.36	846.05	Upper Lone Rock
MW-24	07/08/14	30 - 40	876.66	876.41	26.75	849.66	Upper Lone Rock
MW-24	10/13/14	30 - 40	876.66	876.41	27.20	849.21	Upper Lone Rock
MW-25D	05/06/13	120 - 130	886.97	886.69	41.55	845.14	Upper Wonewoc
MW-25D	07/15/13	120 - 130	886.97	886.69	41.07	845.62	Upper Wonewoc
MW-25D	10/03/13	120 - 130	886.97	886.69	42.78	843.91	Upper Wonewoc
MW-25D	04/14/14	120 - 130	886.97	886.69	43.36	843.33	Upper Wonewoc

Notes on Page 19.

Table 2-2
Groundwater Elevations 2004-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well/ Boring	Date	Screen Interval (feet bls)	Ground Elevation (feet amsl)	Top of Casing Elevation (feet amsl)	Depth to Water (feet btoc)	Groundwater Elevation (feet amsl)	Lithology
MW-25D	07/08/14	120 - 130	886.97	886.69	41.75	844.94	Upper Wonewoc
MW-25D	10/13/14	120 - 130	886.97	886.69	42.05	844.64	Upper Wonewoc
MW-25D2	05/06/13	160 - 170	886.97	886.68	41.65	845.03	Upper Wonewoc
MW-25D2	07/15/13	160 - 170	886.97	886.68	41.43	845.25	Upper Wonewoc
MW-25D2	10/03/13	160 - 170	886.97	886.68	43.08	843.60	Upper Wonewoc
MW-25D2	04/14/14	160 - 170	886.97	886.68	43.36	843.32	Upper Wonewoc
MW-25D2	07/08/14	160 - 170	886.97	886.68	41.91	844.77	Upper Wonewoc
MW-25D2	10/13/14	160 - 170	886.97	886.68	42.29	844.39	Upper Wonewoc
MW-26S	10/03/13	6.8 - 16.8	857.51	856.61	7.15	849.46	Unconsolidated
MW-26S	04/14/14	6.8 - 16.8	857.51	856.61	7.91	848.70	Unconsolidated
MW-26S	07/08/14	6.8 - 16.8	857.51	856.61	4.24	852.37	Unconsolidated
MW-26S	10/13/14	6.8 - 16.8	857.51	856.61	7.16	849.45	Unconsolidated
MW-27D	12/26/13	130 - 140	862.96	862.65	17.25	845.40	Lower Wonewoc
MW-27D	04/14/14	130 - 140	862.96	862.65	17.26	845.39	Lower Wonewoc
MW-27D	07/08/14	130 - 140	862.96	862.65	15.57	847.08	Lower Wonewoc
MW-27D	10/13/14	130 - 140	862.96	862.65	16.81	845.84	Lower Wonewoc
MW-27D2	12/26/13	170 - 180	862.96	862.59	17.18	845.41	Lower Wonewoc
MW-27D2	04/14/14	170 - 180	862.96	862.59	17.28	845.31	Lower Wonewoc
MW-27D2	07/08/14	170 - 180	862.96	862.59	15.57	847.02	Lower Wonewoc
MW-27D2	10/13/14	170 - 180	862.96	862.59	17.76	844.83	Lower Wonewoc

Acronyms and Abbreviations:
amsl = above mean sea level
bls = below land surface
btoc = below top of casing
NM = not measured

Table 3-1
Vertical Gradients 2004-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID	Date	Groundwater Elevation (feet amsl)	Screen Interval (feet bls)	Midpoint of Screen (feet amsl)	Vertical Gradient	Direction	Formation
MW-2S	05/01/04	843.15	19 - 29	831.84	-0.007	up	Unconsolidated
MW-2D	05/01/04	843.23	39 - 44	819.56			Upper Lone Rock
MW-2S	07/01/04	847.71	19 - 29	831.84	0.029	down	Unconsolidated
MW-2D	07/01/04	847.36	39 - 44	819.56			Upper Lone Rock
MW-2S	10/01/04	846.33	19 - 29	831.84	0.036	down	Unconsolidated
MW-2D	10/01/04	845.89	39 - 44	819.56			Upper Lone Rock
MW-2S	01/01/05	845.75	19 - 29	831.84	0.011	down	Unconsolidated
MW-2D	01/01/05	845.62	39 - 44	819.56			Upper Lone Rock
MW-2S	03/01/05	845.70	19 - 29	831.84	0.007	down	Unconsolidated
MW-2D	03/01/05	845.62	39 - 44	819.56			Upper Lone Rock
MW-2S	07/01/05	844.56	19 - 29	831.84	0.037	down	Unconsolidated
MW-2D	07/01/05	844.11	39 - 44	819.56			Upper Lone Rock
MW-2S	09/01/05	842.92	19 - 29	831.84	0.023	down	Unconsolidated
MW-2D	09/01/05	842.64	39 - 44	819.56			Upper Lone Rock
MW-2S	12/01/05	842.04	19 - 29	831.84	0.007	down	Unconsolidated
MW-2D	12/01/05	841.95	39 - 44	819.56			Upper Lone Rock
MW-2S	03/01/06	842.28	19 - 29	831.84	-0.011	up	Unconsolidated
MW-2D	03/01/06	842.41	39 - 44	819.56			Upper Lone Rock
MW-2S	07/01/06	845.13	19 - 29	831.84	0.018	down	Unconsolidated
MW-2D	07/01/06	844.91	39 - 44	819.56			Upper Lone Rock
MW-2S	10/01/06	845.79	19 - 29	831.84	0.016	down	Unconsolidated
MW-2D	10/01/06	845.59	39 - 44	819.56			Upper Lone Rock
MW-2S	12/01/06	846.19	19 - 29	831.84	0.012	down	Unconsolidated
MW-2D	12/01/06	846.04	39 - 44	819.56			Upper Lone Rock
MW-2S	03/01/07	846.27	19 - 29	831.84	0.009	down	Unconsolidated
MW-2D	03/01/07	846.16	39 - 44	819.56			Upper Lone Rock
MW-2S	08/01/07	846.43	19 - 29	831.84	0.029	down	Unconsolidated
MW-2D	08/01/07	846.07	39 - 44	819.56			Upper Lone Rock
MW-2S	09/01/07	848.51	19 - 29	831.84	0.016	down	Unconsolidated
MW-2D	09/01/07	848.31	39 - 44	819.56			Upper Lone Rock
MW-2S	03/01/08	849.25	19 - 29	831.84	0.011	down	Unconsolidated
MW-2D	03/01/08	849.12	39 - 44	819.56			Upper Lone Rock
MW-2S	06/01/08	854.53	19 - 29	831.84	0.048	down	Unconsolidated
MW-2D	06/01/08	853.94	39 - 44	819.56			Upper Lone Rock
MW-2S	09/01/08	850.33	19 - 29	831.84	0.050	down	Unconsolidated
MW-2D	09/01/08	849.71	39 - 44	819.56			Upper Lone Rock

Notes on Page 26.

Table 3-1
Vertical Gradients 2004-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID	Date	Groundwater Elevation (feet amsl)	Screen Interval (feet bls)	Midpoint of Screen (feet amsl)	Vertical Gradient	Direction	Formation
MW-2S	04/01/09	849.74	19 - 29	831.84	0.020	down	Unconsolidated
MW-2D	04/01/09	849.49	39 - 44	819.56			Upper Lone Rock
MW-2S	06/01/09	851.04	19 - 29	831.84	0.039	down	Unconsolidated
MW-2D	06/01/09	850.56	39 - 44	819.56			Upper Lone Rock
MW-2S	09/01/09	848.31	19 - 29	831.84	0.045	down	Unconsolidated
MW-2D	09/01/09	847.76	39 - 44	819.56			Upper Lone Rock
MW-2S	12/01/09	848.31	19 - 29	831.84	0.013	down	Unconsolidated
MW-2D	12/01/09	848.15	39 - 44	819.56			Upper Lone Rock
MW-2S	07/01/10	850.44	19 - 29	831.84	0.029	down	Unconsolidated
MW-2D	07/01/10	850.08	39 - 44	819.56			Upper Lone Rock
MW-2S	10/01/10	850.37	19 - 29	831.84	0.036	down	Unconsolidated
MW-2D	10/01/10	849.93	39 - 44	819.56			Upper Lone Rock
MW-2S	12/01/10	848.74	19 - 29	831.84	0.027	down	Unconsolidated
MW-2D	12/01/10	848.41	39 - 44	819.56			Upper Lone Rock
MW-2S	04/09/12	846.83	19 - 29	831.84	0.005	down	Unconsolidated
MW-2D	04/09/12	846.77	39 - 44	819.56			Upper Lone Rock
MW-2S	07/23/12	845.93	19 - 29	831.84	0.032	down	Unconsolidated
MW-2D	07/23/12	845.54	39 - 44	819.56			Upper Lone Rock
MW-2S	11/30/12	845.14	19 - 29	831.84	0.004	down	Unconsolidated
MW-2D	11/30/12	845.09	39 - 44	819.56			Upper Lone Rock
MW-2S	01/14/13	844.94	19 - 29	831.84	0.002	down	Unconsolidated
MW-2D	01/14/13	844.91	39 - 44	819.56			Upper Lone Rock
MW-2S	04/15/13	847.78	19 - 29	831.84	-0.027	up	Unconsolidated
MW-2D	04/15/13	848.11	39 - 44	819.56			Upper Lone Rock
MW-2S	07/15/13	852.49	19 - 29	831.84	0.050	down	Unconsolidated
MW-2D	07/15/13	851.88	39 - 44	819.56			Upper Lone Rock
MW-2S	10/03/13	849.64	19 - 29	831.84	0.044	down	Unconsolidated
MW-2D	10/03/13	849.10	39 - 44	819.56			Upper Lone Rock
MW-2S	04/14/14	846.75	19 - 29	831.84	0.005	down	Unconsolidated
MW-2D	04/14/14	846.69	39 - 44	819.56			Upper Lone Rock
MW-2S	07/08/14	850.66	19 - 29	831.84	0.025	down	Unconsolidated
MW-2D	07/08/14	850.35	39 - 44	819.56			Upper Lone Rock
MW-2S	10/13/14	849.18	19 - 29	831.84	0.032	down	Unconsolidated
MW-2D	10/13/14	848.79	39 - 44	819.56			Upper Lone Rock
				Average	**0.021**	**down**	

Notes on Page 26.

Table 3-1
Vertical Gradients 2004-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID	Date	Groundwater Elevation (feet amsl)	Screen Interval (feet bls)	Midpoint of Screen (feet amsl)	Vertical Gradient	Direction	Formation
MW-3S	05/01/04	843.87	19 - 29	834.08	0.012	down	Unconsolidated
MW-3D	05/01/04	843.61	48 - 53	812.07			Upper Lone Rock
MW-3S	07/01/04	848.06	19 - 29	834.08	0.029	down	Unconsolidated
MW-3D	07/01/04	847.43	48 - 53	812.07			Upper Lone Rock
MW-3S	10/01/04	846.58	19 - 29	834.08	0.030	down	Unconsolidated
MW-3D	10/01/04	845.93	48 - 53	812.07			Upper Lone Rock
MW-3S	01/01/05	846.05	19 - 29	834.08	0.022	down	Unconsolidated
MW-3D	01/01/05	845.57	48 - 53	812.07			Upper Lone Rock
MW-3S	03/01/05	846.02	19 - 29	834.08	0.010	down	Unconsolidated
MW-3D	03/01/05	845.80	48 - 53	812.07			Upper Lone Rock
MW-3S	07/01/05	844.78	19 - 29	834.08	0.025	down	Unconsolidated
MW-3D	07/01/05	844.24	48 - 53	812.07			Upper Lone Rock
MW-3S	09/01/05	843.29	19 - 29	834.08	0.020	down	Unconsolidated
MW-3D	09/01/05	842.86	48 - 53	812.07			Upper Lone Rock
MW-3S	12/01/05	842.49	19 - 29	834.08	0.018	down	Unconsolidated
MW-3D	12/01/05	842.10	48 - 53	812.07			Upper Lone Rock
MW-3S	03/01/06	842.77	19 - 29	834.08	0.004	down	Unconsolidated
MW-3D	03/01/06	842.69	48 - 53	812.07			Upper Lone Rock
MW-3S	07/01/06	845.54	19 - 29	834.08	0.018	down	Unconsolidated
MW-3D	07/01/06	845.14	48 - 53	812.07			Upper Lone Rock
MW-3S	10/01/06	846.16	19 - 29	834.08	0.031	down	Unconsolidated
MW-3D	10/01/06	845.47	48 - 53	812.07			Upper Lone Rock
MW-3S	12/01/06	846.37	19 - 29	834.08	0.014	down	Unconsolidated
MW-3D	12/01/06	846.07	48 - 53	812.07			Upper Lone Rock
MW-3S	03/01/07	846.43	19 - 29	834.08	0.002	down	Unconsolidated
MW-3D	03/01/07	846.39	48 - 53	812.07			Upper Lone Rock
MW-3S	05/01/07	848.32	19 - 29	834.08	0.008	down	Unconsolidated
MW-3D	05/01/07	848.14	48 - 53	812.07			Upper Lone Rock
MW-3S	08/01/07	846.60	19 - 29	834.08	0.021	down	Unconsolidated
MW-3D	08/01/07	846.14	48 - 53	812.07			Upper Lone Rock
MW-3S	09/01/07	848.72	19 - 29	834.08	0.024	down	Unconsolidated
MW-3D	09/01/07	848.20	48 - 53	812.07			Upper Lone Rock
MW-3S	12/01/07	846.81	19 - 29	834.08	0.035	down	Unconsolidated
MW-3D	12/01/07	846.03	48 - 53	812.07			Upper Lone Rock
MW-3S	03/01/08	849.35	19 - 29	834.08	0.005	down	Unconsolidated
MW-3D	03/01/08	849.24	48 - 53	812.07			Upper Lone Rock

Notes on Page 26.

Table 3-1
Vertical Gradients 2004-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID	Date	Groundwater Elevation (feet amsl)	Screen Interval (feet bls)	Midpoint of Screen (feet amsl)	Vertical Gradient	Direction	Formation
MW-3S	06/01/08	853.83	19 - 29	834.08	0.012	down	Unconsolidated
MW-3D	06/01/08	853.57	48 - 53	812.07			Upper Lone Rock
MW-3S	09/01/08	850.43	19 - 29	834.08	0.049	down	Unconsolidated
MW-3D	09/01/08	849.36	48 - 53	812.07			Upper Lone Rock
MW-3S	12/01/08	848.18	19 - 29	834.08	0.019	down	Unconsolidated
MW-3D	12/01/08	847.77	48 - 53	812.07			Upper Lone Rock
MW-3S	04/01/09	849.88	19 - 29	834.08	0.007	down	Unconsolidated
MW-3D	04/01/09	849.73	48 - 53	812.07			Upper Lone Rock
MW-3S	06/01/09	851.06	19 - 29	834.08	0.042	down	Unconsolidated
MW-3D	06/01/09	850.14	48 - 53	812.07			Upper Lone Rock
MW-3S	09/01/09	848.46	19 - 29	834.08	0.037	down	Unconsolidated
MW-3D	09/01/09	847.64	48 - 53	812.07			Upper Lone Rock
MW-3S	12/01/09	848.29	19 - 29	834.08	0.006	down	Unconsolidated
MW-3D	12/01/09	848.15	48 - 53	812.07			Upper Lone Rock
MW-3S	07/01/10	850.45	19 - 29	834.08	0.016	down	Unconsolidated
MW-3D	07/01/10	850.09	48 - 53	812.07			Upper Lone Rock
MW-3S	10/01/10	850.50	19 - 29	834.08	0.034	down	Unconsolidated
MW-3D	10/01/10	849.75	48 - 53	812.07			Upper Lone Rock
MW-3S	04/09/12	847.10	19 - 29	834.08	0.010	down	Unconsolidated
MW-3D	04/09/12	846.87	48 - 53	812.07			Upper Lone Rock
MW-3S	07/23/12	846.02	19 - 29	834.08	0.026	down	Unconsolidated
MW-3D	07/23/12	845.45	48 - 53	812.07			Upper Lone Rock
MW-3S	11/30/12	845.26	19 - 29	834.08	0.013	down	Unconsolidated
MW-3D	11/30/12	844.98	48 - 53	812.07			Upper Lone Rock
MW-3S	01/14/13	845.13	19 - 29	834.08	0.007	down	Unconsolidated
MW-3D	01/14/13	844.97	48 - 53	812.07			Upper Lone Rock
MW-3S	04/15/13	848.31	19 - 29	834.08	-0.002	up	Unconsolidated
MW-3D	04/15/13	848.35	48 - 53	812.07			Upper Lone Rock
MW-3S	07/15/13	852.31	19 - 29	834.08	0.048	down	Unconsolidated
MW-3D	07/15/13	851.25	48 - 53	812.07			Upper Lone Rock
MW-3S	10/03/13	849.63	19 - 29	834.08	0.045	down	Unconsolidated
MW-3D	10/03/13	848.64	48 - 53	812.07			Upper Lone Rock
MW-3S	04/14/14	846.96	19 - 29	834.08	0.010	down	Unconsolidated
MW-3D	04/14/14	846.73	48 - 53	812.07			Upper Lone Rock

Notes on Page 26.

Table 3-1
Vertical Gradients 2004-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID	Date	Groundwater Elevation (feet amsl)	Screen Interval (feet bls)	Midpoint of Screen (feet amsl)	Vertical Gradient	Direction	Formation
MW-3S	07/08/14	850.56	19 - 29	834.08	0.017	down	Unconsolidated
MW-3D	07/08/14	850.18	48 - 53	812.07			Upper Lone Rock
MW-3S	10/13/14	849.20	19 - 29	834.08	0.022	down	Unconsolidated
MW-3D	10/13/14	848.71	48 - 53	812.07			Upper Lone Rock
				Average	**0.020**	**down**	
MW-3D	05/01/04	843.61	48 - 53	812.07	0.032	down	Upper Lone Rock
MW-3D2	05/01/04	842.74	76 - 81	785.08			Lower Lone Rock
MW-3D	07/01/04	847.43	48 - 53	812.07	0.040	down	Upper Lone Rock
MW-3D2	07/01/04	846.36	76 - 81	785.08			Lower Lone Rock
MW-3D	10/01/04	845.93	48 - 53	812.07	0.036	down	Upper Lone Rock
MW-3D2	10/01/04	844.96	76 - 81	785.08			Lower Lone Rock
MW-3D	01/01/05	845.57	48 - 53	812.07	0.028	down	Upper Lone Rock
MW-3D2	01/01/05	844.82	76 - 81	785.08			Lower Lone Rock
MW-3D	03/01/05	845.80	48 - 53	812.07	0.029	down	Upper Lone Rock
MW-3D2	03/01/05	845.02	76 - 81	785.08			Lower Lone Rock
MW-3D	07/01/05	844.24	48 - 53	812.07	0.036	down	Upper Lone Rock
MW-3D2	07/01/05	843.28	76 - 81	785.08			Lower Lone Rock
MW-3D	09/01/05	842.86	48 - 53	812.07	0.029	down	Upper Lone Rock
MW-3D2	09/01/05	842.08	76 - 81	785.08			Lower Lone Rock
MW-3D	12/01/05	842.10	48 - 53	812.07	0.020	down	Upper Lone Rock
MW-3D2	12/01/05	841.55	76 - 81	785.08			Lower Lone Rock
MW-3D	03/01/06	842.69	48 - 53	812.07	0.018	down	Upper Lone Rock
MW-3D2	03/01/06	842.20	76 - 81	785.08			Lower Lone Rock
MW-3D	07/01/06	845.14	48 - 53	812.07	0.031	down	Upper Lone Rock
MW-3D2	07/01/06	844.29	76 - 81	785.08			Lower Lone Rock
MW-3D	10/01/06	845.47	48 - 53	812.07	0.064	down	Upper Lone Rock
MW-3D2	10/01/06	843.73	76 - 81	785.08			Lower Lone Rock
MW-3D	12/01/06	846.07	48 - 53	812.07	0.020	down	Upper Lone Rock
MW-3D2	12/01/06	845.52	76 - 81	785.08			Lower Lone Rock
MW-3D	03/01/07	846.39	48 - 53	812.07	0.027	down	Upper Lone Rock
MW-3D2	03/01/07	845.66	76 - 81	785.08			Lower Lone Rock
MW-3D	05/01/07	848.14	48 - 53	812.07	0.033	down	Upper Lone Rock
MW-3D2	05/01/07	847.24	76 - 81	785.08			Lower Lone Rock

Notes on Page 26.

Table 3-1
Vertical Gradients 2004-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID	Date	Groundwater Elevation (feet amsl)	Screen Interval (feet bls)	Midpoint of Screen (feet amsl)	Vertical Gradient	Direction	Formation
MW-3D	08/01/07	846.14	48 - 53	812.07	0.031	down	Upper Lone Rock
MW-3D2	08/01/07	845.29	76 - 81	785.08			Lower Lone Rock
MW-3D	09/01/07	848.20	48 - 53	812.07	0.031	down	Upper Lone Rock
MW-3D2	09/01/07	847.35	76 - 81	785.08			Lower Lone Rock
MW-3D	12/01/07	846.03	48 - 53	812.07	-0.037	up	Upper Lone Rock
MW-3D2	12/01/07	847.02	76 - 81	785.08			Lower Lone Rock
MW-3D	03/01/08	849.24	48 - 53	812.07	0.030	down	Upper Lone Rock
MW-3D2	03/01/08	848.44	76 - 81	785.08			Lower Lone Rock
MW-3D	06/01/08	853.57	48 - 53	812.07	0.040	down	Upper Lone Rock
MW-3D2	06/01/08	852.49	76 - 81	785.08			Lower Lone Rock
MW-3D	09/01/08	849.36	48 - 53	812.07	0.034	down	Upper Lone Rock
MW-3D2	09/01/08	848.43	76 - 81	785.08			Lower Lone Rock
MW-3D	12/01/08	847.77	48 - 53	812.07	0.030	down	Upper Lone Rock
MW-3D2	12/01/08	846.96	76 - 81	785.08			Lower Lone Rock
MW-3D	04/01/09	849.73	48 - 53	812.07	0.039	down	Upper Lone Rock
MW-3D2	04/01/09	848.69	76 - 81	785.08			Lower Lone Rock
MW-3D	06/01/09	850.14	48 - 53	812.07	0.030	down	Upper Lone Rock
MW-3D2	06/01/09	849.34	76 - 81	785.08			Lower Lone Rock
MW-3D	09/01/09	847.64	48 - 53	812.07	0.031	down	Upper Lone Rock
MW-3D2	09/01/09	846.79	76 - 81	785.08			Lower Lone Rock
MW-3D	12/01/09	848.15	48 - 53	812.07	0.023	down	Upper Lone Rock
MW-3D2	12/01/09	847.53	76 - 81	785.08			Lower Lone Rock
MW-3D	07/01/10	850.09	48 - 53	812.07	0.039	down	Upper Lone Rock
MW-3D2	07/01/10	849.05	76 - 81	785.08			Lower Lone Rock
MW-3D	10/01/10	849.75	48 - 53	812.07	0.036	down	Upper Lone Rock
MW-3D2	10/01/10	848.78	76 - 81	785.08			Lower Lone Rock
MW-3D	04/09/12	846.87	48 - 53	812.07	0.392	down	Upper Lone Rock
MW-3D2	04/09/12	836.30	76 - 81	785.08			Lower Lone Rock
MW-3D	07/23/12	845.45	48 - 53	812.07	0.029	down	Upper Lone Rock
MW-3D2	07/23/12	844.68	76 - 81	785.08			Lower Lone Rock
MW-3D	11/30/12	844.98	48 - 53	812.07	0.009	down	Upper Lone Rock
MW-3D2	11/30/12	844.75	76 - 81	785.08			Lower Lone Rock
MW-3D	01/14/13	844.97	48 - 53	812.07	0.010	down	Upper Lone Rock
MW-3D2	01/14/13	844.69	76 - 81	785.08			Lower Lone Rock

Notes on Page 26.

Table 3-1
Vertical Gradients 2004-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID	Date	Groundwater Elevation (feet amsl)	Screen Interval (feet bls)	Midpoint of Screen (feet amsl)	Vertical Gradient	Direction	Formation
MW-3D	04/15/13	848.35	48 - 53	812.07	0.012	down	Upper Lone Rock
MW-3D2	04/15/13	848.03	76 - 81	785.08			Lower Lone Rock
MW-3D	07/15/13	851.25	48 - 53	812.07	0.024	down	Upper Lone Rock
MW-3D2	07/15/13	850.60	76 - 81	785.08			Lower Lone Rock
MW-3D	10/03/13	848.64	48 - 53	812.07	0.017	down	Upper Lone Rock
MW-3D2	10/03/13	848.17	76 - 81	785.08			Lower Lone Rock
MW-3D	04/14/14	846.73	48 - 53	812.07	0.013	down	Upper Lone Rock
MW-3D2	04/14/14	846.37	76 - 81	785.08			Lower Lone Rock
MW-3D	07/08/14	850.18	48 - 53	812.07	0.024	down	Upper Lone Rock
MW-3D2	07/08/14	849.54	76 - 81	785.08			Lower Lone Rock
MW-3D	10/13/14	848.71	48 - 53	812.07	0.028	down	Upper Lone Rock
MW-3D2	10/13/14	847.95	76 - 81	785.08			Lower Lone Rock
				Average	**0.037**	**down**	
MW-3D2	07/23/12	844.68	76 - 81	785.08	0.019	down	Lower Lone Rock
MW-3D3	07/23/12	841.97	214 - 224	638.80			Lower Wonewoc/Upper Eau Claire
MW-3D2	11/30/12	844.75	76 - 81	785.08	0.008	down	Lower Lone Rock
MW-3D3	11/30/12	843.51	214 - 224	638.80			Wonewoc/Eau Claire
MW-3D2	01/14/13	844.69	76 - 81	785.08	0.008	down	Lower Lone Rock
MW-3D3	01/14/13	843.50	214 - 224	638.80			Lower Wonewoc/Upper Eau Claire
MW-3D2	04/15/13	848.03	76 - 81	785.08	0.012	down	Lower Lone Rock
MW-3D3	04/15/13	846.22	214 - 224	638.80			Lower Wonewoc/Upper Eau Claire
MW-3D2	07/15/13	850.60	76 - 81	785.08	0.026	down	Lower Lone Rock
MW-3D3	07/15/13	846.75	214 - 224	638.80			Lower Wonewoc/Upper Eau Claire
MW-3D2	10/03/13	848.17	76 - 81	785.08	0.015	down	Lower Lone Rock
MW-3D3	10/03/13	845.91	214 - 224	638.80			Lower Wonewoc/Upper Eau Claire
MW-3D2	04/14/14	846.37	76 - 81	785.08	0.011	down	Lower Lone Rock
MW-3D3	04/14/14	844.75	214 - 224	638.80			Lower Wonewoc/Upper Eau Claire
MW-3D2	07/08/14	849.54	76 - 81	785.08	0.019	down	Lower Lone Rock
MW-3D3	07/08/14	846.82	214 - 224	638.80			Lower Wonewoc/Upper Eau Claire
MW-3D2	10/13/14	847.95	76 - 81	785.08	0.015	down	Lower Lone Rock
MW-3D3	10/13/14	845.76	214 - 224	638.80			Lower Wonewoc/Upper Eau Claire
				Average	**0.015**	**down**	
MW-4S	05/01/04	843.17	35 - 50	823.36	0.039	down	Unconsolidated/Upper Lone Rock
MW-4D	05/01/04	842.57	65 - 70	807.81			Lower Lone Rock

Notes on Page 26.

Table 3-1
Vertical Gradients 2004-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID	Date	Groundwater Elevation (feet amsl)	Screen Interval (feet bls)	Midpoint of Screen (feet amsl)	Vertical Gradient	Direction	Formation
MW-4S	07/01/04	847.71	35 - 50	823.36	0.068	down	Unconsolidated/Upper Lone Rock
MW-4D	07/01/04	846.66	65 - 70	807.81			Lower Lone Rock
MW-4S	10/01/04	846.84	35 - 50	823.36	0.100	down	Unconsolidated/Upper Lone Rock
MW-4D	10/01/04	845.28	65 - 70	807.81			Lower Lone Rock
MW-4S	01/01/05	846.21	35 - 50	823.36	0.086	down	Unconsolidated/Upper Lone Rock
MW-4D	01/01/05	844.88	65 - 70	807.81			Lower Lone Rock
MW-4S	03/01/05	845.85	35 - 50	823.36	0.057	down	Unconsolidated/Upper Lone Rock
MW-4D	03/01/05	844.96	65 - 70	807.81			Lower Lone Rock
MW-4S	09/01/05	843.46	35 - 50	823.36	0.087	down	Unconsolidated/Upper Lone Rock
MW-4D	09/01/05	842.10	65 - 70	807.81			Lower Lone Rock
MW-4S	12/01/05	842.56	35 - 50	823.36	0.076	down	Unconsolidated/Upper Lone Rock
MW-4D	12/01/05	841.38	65 - 70	807.81			Lower Lone Rock
MW-4S	03/01/06	842.38	35 - 50	823.36	0.042	down	Unconsolidated/Upper Lone Rock
MW-4D	03/01/06	841.72	65 - 70	807.81			Lower Lone Rock
MW-4S	07/01/06	845.21	35 - 50	823.36	0.074	down	Unconsolidated/Upper Lone Rock
MW-4D	07/01/06	844.06	65 - 70	807.81			Lower Lone Rock
MW-4S	10/01/06	846.14	35 - 50	823.36	0.086	down	Unconsolidated/Upper Lone Rock
MW-4D	10/01/06	844.80	65 - 70	807.81			Lower Lone Rock
MW-4S	12/01/06	846.45	35 - 50	823.36	0.066	down	Unconsolidated/Upper Lone Rock
MW-4D	12/01/06	845.42	65 - 70	807.81			Lower Lone Rock
MW-4S	03/01/07	846.59	35 - 50	823.36	0.075	down	Unconsolidated/Upper Lone Rock
MW-4D	03/01/07	845.43	65 - 70	807.81			Lower Lone Rock
MW-4S	08/01/07	847.33	35 - 50	823.36	0.127	down	Unconsolidated/Upper Lone Rock
MW-4D	08/01/07	845.35	65 - 70	807.81			Lower Lone Rock
MW-4S	09/01/07	849.23	35 - 50	823.36	0.100	down	Unconsolidated/Upper Lone Rock
MW-4D	09/01/07	847.68	65 - 70	807.81			Lower Lone Rock
MW-4S	12/01/07	848.45	35 - 50	823.36	0.135	down	Unconsolidated/Upper Lone Rock
MW-4D	12/01/07	846.35	65 - 70	807.81			Lower Lone Rock
MW-4S	03/01/08	849.43	35 - 50	823.36	0.084	down	Unconsolidated/Upper Lone Rock
MW-4D	03/01/08	848.12	65 - 70	807.81			Lower Lone Rock
MW-4S	06/01/08	854.80	35 - 50	823.36	0.095	down	Unconsolidated/Upper Lone Rock
MW-4D	06/01/08	853.33	65 - 70	807.81			Lower Lone Rock
MW-4S	09/01/08	851.88	35 - 50	823.36	0.175	down	Unconsolidated/Upper Lone Rock
MW-4D	09/01/08	849.16	65 - 70	807.81			Lower Lone Rock

Notes on Page 26.

Table 3-1
Vertical Gradients 2004-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID	Date	Groundwater Elevation (feet amsl)	Screen Interval (feet bls)	Midpoint of Screen (feet amsl)	Vertical Gradient	Direction	Formation
MW-4S	12/01/08	849.37	35 - 50	823.36	0.130	down	Unconsolidated/Upper Lone Rock
MW-4D	12/01/08	847.35	65 - 70	807.81			Lower Lone Rock
MW-4S	04/01/09	848.87	35 - 50	823.36	-0.046	up	Unconsolidated/Upper Lone Rock
MW-4D	04/01/09	849.59	65 - 70	807.81			Lower Lone Rock
MW-4S	06/01/09	851.59	35 - 50	823.36	0.113	down	Unconsolidated/Upper Lone Rock
MW-4D	06/01/09	849.83	65 - 70	807.81			Lower Lone Rock
MW-4S	07/01/10	850.61	35 - 50	823.36	0.081	down	Unconsolidated/Upper Lone Rock
MW-4D	07/01/10	849.35	65 - 70	807.81			Lower Lone Rock
MW-4S	10/01/10	851.32	35 - 50	823.36	0.122	down	Unconsolidated/Upper Lone Rock
MW-4D	10/01/10	849.42	65 - 70	807.81			Lower Lone Rock
MW-4S	12/01/10	849.45	35 - 50	823.36	0.098	down	Unconsolidated/Upper Lone Rock
MW-4D	12/01/10	847.92	65 - 70	807.81			Lower Lone Rock
MW-4S	04/09/12	847.10	35 - 50	823.36	0.063	down	Unconsolidated/Upper Lone Rock
MW-4D	04/09/12	846.12	65 - 70	807.81			Lower Lone Rock
MW-4S	07/23/12	846.42	35 - 50	823.36	0.099	down	Unconsolidated/Upper Lone Rock
MW-4D	07/23/12	844.88	65 - 70	807.81			Lower Lone Rock
MW-4S	11/30/12	845.74	35 - 50	823.36	0.061	down	Unconsolidated/Upper Lone Rock
MW-4D	11/30/12	844.79	65 - 70	807.81			Lower Lone Rock
MW-4S	01/14/13	845.42	35 - 50	823.36	0.059	down	Unconsolidated/Upper Lone Rock
MW-4D	01/14/13	844.51	65 - 70	807.81			Lower Lone Rock
MW-4S	04/15/13	847.84	35 - 50	823.36	0.029	down	Unconsolidated/Upper Lone Rock
MW-4D	04/15/13	847.39	65 - 70	807.81			Lower Lone Rock
MW-4S	07/15/13	852.86	35 - 50	823.36	0.100	down	Unconsolidated/Upper Lone Rock
MW-4D	07/15/13	851.30	65 - 70	807.81			Lower Lone Rock
MW-4S	10/03/13	850.81	35 - 50	823.36	0.143	down	Unconsolidated/Upper Lone Rock
MW-4D	10/03/13	848.59	65 - 70	807.81			Lower Lone Rock
MW-4S	04/14/14	847.04	35 - 50	823.36	0.067	down	Unconsolidated/Upper Lone Rock
MW-4D	04/14/14	846.00	65 - 70	807.81			Lower Lone Rock
MW-4S	07/08/14	850.70	35 - 50	823.36	0.063	down	Unconsolidated/Upper Lone Rock
MW-4D	07/08/14	849.72	65 - 70	807.81			Lower Lone Rock
MW-4S	10/13/14	850.21	35 - 50	823.36	0.116	down	Unconsolidated/Upper Lone Rock
MW-4D	10/13/14	848.41	65 - 70	807.81			Lower Lone Rock
				Average	**0.084**	**down**	

Notes on Page 26.

Table 3-1
Vertical Gradients 2004-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID	Date	Groundwater Elevation (feet amsl)	Screen Interval (feet bls)	Midpoint of Screen (feet amsl)	Vertical Gradient	Direction	Formation
MW-4D	05/01/04	842.57	65 - 70	807.81	-0.002	up	Lower Lone Rock
MW-4D2	05/01/04	842.63	91 - 96	781.87			Lower Lone Rock
MW-4D	07/01/04	846.66	65 - 70	807.81	0.020	down	Lower Lone Rock
MW-4D2	07/01/04	846.14	91 - 96	781.87			Lower Lone Rock
MW-4D	10/01/04	845.28	65 - 70	807.81	0.020	down	Lower Lone Rock
MW-4D2	10/01/04	844.77	91 - 96	781.87			Lower Lone Rock
MW-4D	01/01/05	844.88	65 - 70	807.81	0.014	down	Lower Lone Rock
MW-4D2	01/01/05	844.52	91 - 96	781.87			Lower Lone Rock
MW-4D	03/01/05	844.96	65 - 70	807.81	0.012	down	Lower Lone Rock
MW-4D2	03/01/05	844.64	91 - 96	781.87			Lower Lone Rock
MW-4D	09/01/05	842.10	65 - 70	807.81	0.017	down	Lower Lone Rock
MW-4D2	09/01/05	841.67	91 - 96	781.87			Lower Lone Rock
MW-4D	12/01/05	841.38	65 - 70	807.81	0.009	down	Lower Lone Rock
MW-4D2	12/01/05	841.15	91 - 96	781.87			Lower Lone Rock
MW-4D	03/01/06	841.72	65 - 70	807.81	0.005	down	Lower Lone Rock
MW-4D2	03/01/06	841.58	91 - 96	781.87			Lower Lone Rock
MW-4D	07/01/06	844.06	65 - 70	807.81	0.023	down	Lower Lone Rock
MW-4D2	07/01/06	843.47	91 - 96	781.87			Lower Lone Rock
MW-4D	10/01/06	844.80	65 - 70	807.81	0.016	down	Lower Lone Rock
MW-4D2	10/01/06	844.39	91 - 96	781.87			Lower Lone Rock
MW-4D	12/01/06	845.42	65 - 70	807.81	0.010	down	Lower Lone Rock
MW-4D2	12/01/06	845.15	91 - 96	781.87			Lower Lone Rock
MW-4D	03/01/07	845.43	65 - 70	807.81	0.017	down	Lower Lone Rock
MW-4D2	03/01/07	844.99	91 - 96	781.87			Lower Lone Rock
MW-4D	08/01/07	845.35	65 - 70	807.81	0.009	down	Lower Lone Rock
MW-4D2	08/01/07	845.11	91 - 96	781.87			Lower Lone Rock
MW-4D	09/01/07	847.68	65 - 70	807.81	0.018	down	Lower Lone Rock
MW-4D2	09/01/07	847.22	91 - 96	781.87			Lower Lone Rock
MW-4D	12/01/07	846.35	65 - 70	807.81	-0.003	up	Lower Lone Rock
MW-4D2	12/01/07	846.44	91 - 96	781.87			Lower Lone Rock
MW-4D	03/01/08	848.12	65 - 70	807.81	0.020	down	Lower Lone Rock
MW-4D2	03/01/08	847.60	91 - 96	781.87			Lower Lone Rock
MW-4D	06/01/08	853.33	65 - 70	807.81	0.048	down	Lower Lone Rock
MW-4D2	06/01/08	852.08	91 - 96	781.87			Lower Lone Rock
MW-4D	09/01/08	849.16	65 - 70	807.81	0.022	down	Lower Lone Rock
MW-4D2	09/01/08	848.59	91 - 96	781.87			Lower Lone Rock

Notes on Page 26.

Table 3-1
Vertical Gradients 2004-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID	Date	Groundwater Elevation (feet amsl)	Screen Interval (feet bls)	Midpoint of Screen (feet amsl)	Vertical Gradient	Direction	Formation
MW-4D	12/01/08	847.35	65 - 70	807.81	0.013	down	Lower Lone Rock
MW-4D2	12/01/08	847.00	91 - 96	781.87			Lower Lone Rock
MW-4D	04/01/09	849.59	65 - 70	807.81	0.054	down	Lower Lone Rock
MW-4D2	04/01/09	848.19	91 - 96	781.87			Lower Lone Rock
MW-4D	06/01/09	849.83	65 - 70	807.81	0.020	down	Lower Lone Rock
MW-4D2	06/01/09	849.32	91 - 96	781.87			Lower Lone Rock
MW-4D	07/01/10	849.35	65 - 70	807.81	0.021	down	Lower Lone Rock
MW-4D2	07/01/10	848.81	91 - 96	781.87			Lower Lone Rock
MW-4D	10/01/10	849.42	65 - 70	807.81	0.019	down	Lower Lone Rock
MW-4D2	10/01/10	848.94	91 - 96	781.87			Lower Lone Rock
MW-4D	12/01/10	847.92	65 - 70	807.81	0.014	down	Lower Lone Rock
MW-4D2	12/01/10	847.55	91 - 96	781.87			Lower Lone Rock
MW-4D	04/09/12	846.12	65 - 70	807.81	-0.106	up	Lower Lone Rock
MW-4D2	04/09/12	848.87	91 - 96	781.87			Lower Lone Rock
MW-4D	07/23/12	844.88	65 - 70	807.81	0.017	down	Lower Lone Rock
MW-4D2	07/23/12	844.44	91 - 96	781.87			Lower Lone Rock
MW-4D	11/30/12	844.79	65 - 70	807.81	0.016	down	Lower Lone Rock
MW-4D2	11/30/12	844.38	91 - 96	781.87			Lower Lone Rock
MW-4D	01/14/13	844.51	65 - 70	807.81	0.009	down	Lower Lone Rock
MW-4D2	01/14/13	844.28	91 - 96	781.87			Lower Lone Rock
MW-4D	04/15/13	847.39	65 - 70	807.81	0.007	down	Lower Lone Rock
MW-4D2	04/15/13	847.21	91 - 96	781.87			Lower Lone Rock
MW-4D	07/15/13	851.30	65 - 70	807.81	0.021	down	Lower Lone Rock
MW-4D2	07/15/13	850.76	91 - 96	781.87			Lower Lone Rock
MW-4D	10/03/13	848.59	65 - 70	807.81	0.018	down	Lower Lone Rock
MW-4D2	10/03/13	848.12	91 - 96	781.87			Lower Lone Rock
MW-4D	04/14/14	846.00	65 - 70	807.81	0.008	down	Lower Lone Rock
MW-4D2	04/14/14	845.78	91 - 96	781.87			Lower Lone Rock
MW-4D	07/08/14	849.72	65 - 70	807.81	0.024	down	Lower Lone Rock
MW-4D2	07/08/14	849.11	91 - 96	781.87			Lower Lone Rock
MW-4D	10/13/14	848.41	65 - 70	807.81	0.016	down	Lower Lone Rock
MW-4D2	10/13/14	848.00	91 - 96	781.87			Lower Lone Rock
				Average	**0.013**	**down**	
MW-5S	05/01/04	843.46	34 - 44	823.82	0.014	down	Upper Lone Rock
MW-5D	05/01/04	842.98	75 - 80	790.65			Lower Lone Rock

Notes on Page 26.

Table 3-1
Vertical Gradients 2004-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID	Date	Groundwater Elevation (feet amsl)	Screen Interval (feet bls)	Midpoint of Screen (feet amsl)	Vertical Gradient	Direction	Formation
MW-5S	07/01/04	847.46	34 - 44	823.82	0.017	down	Upper Lone Rock
MW-5D	07/01/04	846.89	75 - 80	790.65			Lower Lone Rock
MW-5S	10/01/04	845.80	34 - 44	823.82	0.011	down	Upper Lone Rock
MW-5D	10/01/04	845.43	75 - 80	790.65			Lower Lone Rock
MW-5S	01/01/05	845.48	34 - 44	823.82	0.013	down	Upper Lone Rock
MW-5D	01/01/05	845.05	75 - 80	790.65			Lower Lone Rock
MW-5S	03/01/05	845.52	34 - 44	823.82	0.010	down	Upper Lone Rock
MW-5D	03/01/05	845.19	75 - 80	790.65			Lower Lone Rock
MW-5S	07/01/05	844.01	34 - 44	823.82	0.012	down	Upper Lone Rock
MW-5D	07/01/05	843.62	75 - 80	790.65			Lower Lone Rock
MW-5S	09/01/05	842.60	34 - 44	823.82	0.010	down	Upper Lone Rock
MW-5D	09/01/05	842.26	75 - 80	790.65			Lower Lone Rock
MW-5S	12/01/05	842.00	34 - 44	823.82	0.008	down	Upper Lone Rock
MW-5D	12/01/05	841.72	75 - 80	790.65			Lower Lone Rock
MW-5S	03/01/06	842.35	34 - 44	823.82	0.005	down	Upper Lone Rock
MW-5D	03/01/06	842.19	75 - 80	790.65			Lower Lone Rock
MW-5S	07/01/06	844.82	34 - 44	823.82	0.011	down	Upper Lone Rock
MW-5D	07/01/06	844.47	75 - 80	790.65			Lower Lone Rock
MW-5S	10/01/06	845.42	34 - 44	823.82	0.011	down	Upper Lone Rock
MW-5D	10/01/06	845.04	75 - 80	790.65			Lower Lone Rock
MW-5S	12/01/06	845.93	34 - 44	823.82	0.009	down	Upper Lone Rock
MW-5D	12/01/06	845.62	75 - 80	790.65			Lower Lone Rock
MW-5S	03/01/07	846.10	34 - 44	823.82	0.014	down	Upper Lone Rock
MW-5D	03/01/07	845.65	75 - 80	790.65			Lower Lone Rock
MW-5S	08/01/07	845.74	34 - 44	823.82	0.007	down	Upper Lone Rock
MW-5D	08/01/07	845.50	75 - 80	790.65			Lower Lone Rock
MW-5S	09/01/07	848.05	34 - 44	823.82	0.013	down	Upper Lone Rock
MW-5D	09/01/07	847.63	75 - 80	790.65			Lower Lone Rock
MW-5S	12/01/07	846.59	34 - 44	823.82	0.005	down	Upper Lone Rock
MW-5D	12/01/07	846.42	75 - 80	790.65			Lower Lone Rock
MW-5S	03/01/08	848.84	34 - 44	823.82	0.011	down	Upper Lone Rock
MW-5D	03/01/08	848.49	75 - 80	790.65			Lower Lone Rock
MW-5S	06/01/08	854.16	34 - 44	823.82	0.030	down	Upper Lone Rock
MW-5D	06/01/08	853.17	75 - 80	790.65			Lower Lone Rock
MW-5S	09/01/08	853.32	34 - 44	823.82	0.130	down	Upper Lone Rock
MW-5D	09/01/08	849.02	75 - 80	790.65			Lower Lone Rock

Notes on Page 26.

Table 3-1
Vertical Gradients 2004-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID	Date	Groundwater Elevation (feet amsl)	Screen Interval (feet bls)	Midpoint of Screen (feet amsl)	Vertical Gradient	Direction	Formation
MW-5S	12/01/08	847.69	34 - 44	823.82	0.013	down	Upper Lone Rock
MW-5D	12/01/08	847.25	75 - 80	790.65			Lower Lone Rock
MW-5S	04/01/09	849.71	34 - 44	823.82	0.024	down	Upper Lone Rock
MW-5D	04/01/09	848.93	75 - 80	790.65			Lower Lone Rock
MW-5S	06/01/09	850.49	34 - 44	823.82	0.021	down	Upper Lone Rock
MW-5D	06/01/09	849.81	75 - 80	790.65			Lower Lone Rock
MW-5S	09/01/09	850.33	34 - 44	823.82	0.103	down	Upper Lone Rock
MW-5D	09/01/09	846.90	75 - 80	790.65			Lower Lone Rock
MW-5S	12/01/09	848.04	34 - 44	823.82	0.015	down	Upper Lone Rock
MW-5D	12/01/09	847.55	75 - 80	790.65			Lower Lone Rock
MW-5S	07/01/10	849.84	34 - 44	823.82	0.016	down	Upper Lone Rock
MW-5D	07/01/10	849.31	75 - 80	790.65			Lower Lone Rock
MW-5S	10/01/10	850.53	34 - 44	823.82	0.040	down	Upper Lone Rock
MW-5D	10/01/10	849.19	75 - 80	790.65			Lower Lone Rock
MW-5S	12/01/10	848.30	34 - 44	823.82	0.014	down	Upper Lone Rock
MW-5D	12/01/10	847.84	75 - 80	790.65			Lower Lone Rock
MW-5S	04/09/12	846.66	34 - 44	823.82	0.050	down	Upper Lone Rock
MW-5D	04/09/12	845.00	75 - 80	790.65			Lower Lone Rock
MW-5S	07/23/12	845.41	34 - 44	823.82	0.014	down	Upper Lone Rock
MW-5D	07/23/12	844.95	75 - 80	790.65			Lower Lone Rock
MW-5S	01/14/13	844.78	34 - 44	823.82	0.006	down	Upper Lone Rock
MW-5D	01/14/13	844.58	75 - 80	790.65			Lower Lone Rock
MW-5S	04/15/13	848.43	34 - 44	823.82	-0.008	up	Upper Lone Rock
MW-5D	04/15/13	848.69	75 - 80	790.65			Lower Lone Rock
MW-5S	07/15/13	852.04	34 - 44	823.82	0.024	down	Upper Lone Rock
MW-5D	07/15/13	851.25	75 - 80	790.65			Lower Lone Rock
MW-5S	10/03/13	849.07	34 - 44	823.82	0.019	down	Upper Lone Rock
MW-5D	10/03/13	848.45	75 - 80	790.65			Lower Lone Rock
MW-5S	04/14/14	846.44	34 - 44	823.82	0.008	down	Upper Lone Rock
MW-5D	04/14/14	846.19	75 - 80	790.65			Lower Lone Rock
MW-5S	07/08/14	850.71	34 - 44	823.82	0.025	down	Upper Lone Rock
MW-5D	07/08/14	849.89	75 - 80	790.65			Lower Lone Rock
MW-5S	10/13/14	848.51	34 - 44	823.82	0.011	down	Upper Lone Rock
MW-5D	10/13/14	848.14	75 - 80	790.65			Lower Lone Rock
				Average	**0.020**	**down**	

Notes on Page 26.

Table 3-1
Vertical Gradients 2004-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID	Date	Groundwater Elevation (feet amsl)	Screen Interval (feet bls)	Midpoint of Screen (feet amsl)	Vertical Gradient	Direction	Formation
MW-5D	05/01/04	842.98	75 - 80	790.65	0.029	down	Lower Lone Rock
MW-5D2	05/01/04	840.33	165 - 170	700.00			Lower Wonewoc
MW-5D	07/01/04	846.89	75 - 80	790.65	0.045	down	Lower Lone Rock
MW-5D2	07/01/04	842.84	165 - 170	700.00			Lower Wonewoc
MW-5D	10/01/04	845.43	75 - 80	790.65	0.038	down	Lower Lone Rock
MW-5D2	10/01/04	841.94	165 - 170	700.00			Lower Wonewoc
MW-5D	01/01/05	845.05	75 - 80	790.65	0.027	down	Lower Lone Rock
MW-5D2	01/01/05	842.61	165 - 170	700.00			Lower Wonewoc
MW-5D	03/01/05	845.19	75 - 80	790.65	0.020	down	Lower Lone Rock
MW-5D2	03/01/05	843.36	165 - 170	700.00			Lower Wonewoc
MW-5D	07/01/05	843.62	75 - 80	790.65	0.033	down	Lower Lone Rock
MW-5D2	07/01/05	840.60	165 - 170	700.00			Lower Wonewoc
MW-5D	09/01/05	842.26	75 - 80	790.65	0.028	down	Lower Lone Rock
MW-5D2	09/01/05	839.68	165 - 170	700.00			Lower Wonewoc
MW-5D	12/01/05	841.72	75 - 80	790.65	0.024	down	Lower Lone Rock
MW-5D2	12/01/05	839.58	165 - 170	700.00			Lower Wonewoc
MW-5D	03/01/06	842.19	75 - 80	790.65	0.011	down	Lower Lone Rock
MW-5D2	03/01/06	841.22	165 - 170	700.00			Lower Wonewoc
MW-5D	07/01/06	844.47	75 - 80	790.65	0.032	down	Lower Lone Rock
MW-5D2	07/01/06	841.61	165 - 170	700.00			Lower Wonewoc
MW-5D	10/01/06	845.04	75 - 80	790.65	0.033	down	Lower Lone Rock
MW-5D2	10/01/06	842.04	165 - 170	700.00			Lower Wonewoc
MW-5D	12/01/06	845.62	75 - 80	790.65	0.023	down	Lower Lone Rock
MW-5D2	12/01/06	843.54	165 - 170	700.00			Lower Wonewoc
MW-5D	03/01/07	845.65	75 - 80	790.65	0.024	down	Lower Lone Rock
MW-5D2	03/01/07	843.51	165 - 170	700.00			Lower Wonewoc
MW-5D	08/01/07	845.50	75 - 80	790.65	0.037	down	Lower Lone Rock
MW-5D2	08/01/07	842.19	165 - 170	700.00			Lower Wonewoc
MW-5D	09/01/07	847.63	75 - 80	790.65	0.040	down	Lower Lone Rock
MW-5D2	09/01/07	844.03	165 - 170	700.00			Lower Wonewoc
MW-5D	12/01/07	846.42	75 - 80	790.65	0.030	down	Lower Lone Rock
MW-5D2	12/01/07	843.72	165 - 170	700.00			Lower Wonewoc
MW-5D	03/01/08	848.49	75 - 80	790.65	0.031	down	Lower Lone Rock
MW-5D2	03/01/08	845.64	165 - 170	700.00			Lower Wonewoc
MW-5D	06/01/08	853.17	75 - 80	790.65	0.054	down	Lower Lone Rock
MW-5D2	06/01/08	848.24	165 - 170	700.00			Lower Wonewoc

Notes on Page 26.

Table 3-1
Vertical Gradients 2004-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID	Date	Groundwater Elevation (feet amsl)	Screen Interval (feet bls)	Midpoint of Screen (feet amsl)	Vertical Gradient	Direction	Formation
MW-5D	09/01/08	849.02	75 - 80	790.65	0.046	down	Lower Lone Rock
MW-5D2	09/01/08	844.89	165 - 170	700.00			Lower Wonewoc
MW-5D	12/01/08	847.25	75 - 80	790.65	0.029	down	Lower Lone Rock
MW-5D2	12/01/08	844.65	165 - 170	700.00			Lower Wonewoc
MW-5D	04/01/09	848.93	75 - 80	790.65	0.031	down	Lower Lone Rock
MW-5D2	04/01/09	846.12	165 - 170	700.00			Lower Wonewoc
MW-5D	06/01/09	849.81	75 - 80	790.65	0.045	down	Lower Lone Rock
MW-5D2	06/01/09	845.73	165 - 170	700.00			Lower Wonewoc
MW-5D	09/01/09	846.90	75 - 80	790.65	0.035	down	Lower Lone Rock
MW-5D2	09/01/09	843.75	165 - 170	700.00			Lower Wonewoc
MW-5D	12/01/09	847.55	75 - 80	790.65	0.024	down	Lower Lone Rock
MW-5D2	12/01/09	845.37	165 - 170	700.00			Lower Wonewoc
MW-5D	07/01/10	849.31	75 - 80	790.65	0.041	down	Lower Lone Rock
MW-5D2	07/01/10	845.61	165 - 170	700.00			Lower Wonewoc
MW-5D	10/01/10	849.19	75 - 80	790.65	0.041	down	Lower Lone Rock
MW-5D2	10/01/10	845.51	165 - 170	700.00			Lower Wonewoc
MW-5D	12/01/10	847.84	75 - 80	790.65	0.028	down	Lower Lone Rock
MW-5D2	12/01/10	845.26	165 - 170	700.00			Lower Wonewoc
MW-5D	04/09/12	851.00	75 - 80	790.65	0.071	down	Lower Lone Rock
MW-5D2	04/09/12	844.52	165 - 170	700.00			Lower Wonewoc
MW-5D	07/23/12	844.95	75 - 80	790.65	0.036	down	Lower Lone Rock
MW-5D2	07/23/12	841.72	165 - 170	700.00			Lower Wonewoc
MW-5D	11/30/12	844.72	75 - 80	790.65	0.016	down	Lower Lone Rock
MW-5D2	11/30/12	843.25	165 - 170	700.00			Lower Wonewoc
MW-5D	01/14/13	844.58	75 - 80	790.65	0.014	down	Lower Lone Rock
MW-5D2	01/14/13	843.31	165 - 170	700.00			Lower Wonewoc
MW-5D	04/15/13	848.69	75 - 80	790.65	0.029	down	Lower Lone Rock
MW-5D2	04/15/13	846.04	165 - 170	700.00			Lower Wonewoc
MW-5D	07/15/13	851.25	75 - 80	790.65	0.054	down	Lower Lone Rock
MW-5D2	07/15/13	846.39	165 - 170	700.00			Lower Wonewoc
MW-5D	10/03/13	848.45	75 - 80	790.65	0.041	down	Lower Lone Rock
MW-5D2	10/03/13	844.75	165 - 170	700.00			Lower Wonewoc
MW-5D	04/14/14	846.19	75 - 80	790.65	0.019	down	Lower Lone Rock
MW-5D2	04/14/14	844.49	165 - 170	700.00			Lower Wonewoc
MW-5D	07/08/14	849.89	75 - 80	790.65	0.038	down	Lower Lone Rock
MW-5D2	07/08/14	846.42	165 - 170	700.00			Lower Wonewoc

Notes on Page 26.

Table 3-1
Vertical Gradients 2004-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID	Date	Groundwater Elevation (feet amsl)	Screen Interval (feet bls)	Midpoint of Screen (feet amsl)	Vertical Gradient	Direction	Formation
MW-5D	10/13/14	848.14	75 - 80	790.65	0.029	down	Lower Lone Rock
MW-5D2	10/13/14	845.47	165 - 170	700.00			Lower Wonewoc
				Average	**0.033**	**down**	
MW-5D2	07/23/12	841.72	165 - 170	700.00	-0.001	up	Lower Wonewoc
MW-5D3	07/23/12	841.81	224 - 234	633.00			Lower Wonewoc/Upper Eau Claire
MW-5D2	11/30/12	843.25	165 - 170	700.00	-0.002	up	Lower Wonewoc
MW-5D3	11/30/12	843.39	224 - 234	633.00			Lower Wonewoc/Upper Eau Claire
MW-5D2	01/14/13	843.31	165 - 170	700.00	-0.002	up	Lower Wonewoc
MW-5D3	01/14/13	843.42	224 - 234	633.00			Lower Wonewoc/Upper Eau Claire
MW-5D2	04/15/13	846.04	165 - 170	700.00	-0.001	up	Lower Wonewoc
MW-5D3	04/15/13	846.12	224 - 234	633.00			Lower Wonewoc/Upper Eau Claire
MW-5D2	07/15/13	846.39	165 - 170	700.00	0.005	down	Lower Wonewoc
MW-5D3	07/15/13	846.06	224 - 234	633.00			Lower Wonewoc/Upper Eau Claire
MW-5D2	10/03/13	844.75	165 - 170	700.00	-0.002	up	Lower Wonewoc
MW-5D3	10/03/13	844.87	224 - 234	633.00			Lower Wonewoc/Upper Eau Claire
MW-5D2	04/14/14	844.49	165 - 170	700.00	-0.003	up	Lower Wonewoc
MW-5D3	04/14/14	844.68	224 - 234	633.00			Lower Wonewoc/Upper Eau Claire
MW-5D2	07/08/14	846.42	165 - 170	700.00	-0.004	up	Lower Wonewoc
MW-5D3	07/08/14	846.67	224 - 234	633.00			Lower Wonewoc/Upper Eau Claire
MW-5D2	10/13/14	845.47	165 - 170	700.00	NM	NM	Lower Wonewoc
MW-5D3	10/13/14	NM	224 - 234	633.00			Lower Wonewoc/Upper Eau Claire
				Average	**-0.001**	**up**	
MW-6S	05/01/04	842.53	32 - 42	829.74	0.007	down	Unconsolidated/Upper Lone Rock
MW-6D	05/01/04	842.35	65 - 70	803.79			Lower Lone Rock
MW-6S	07/01/04	846.82	32 - 42	829.74	0.022	down	Unconsolidated/Upper Lone Rock
MW-6D	07/01/04	846.24	65 - 70	803.79			Lower Lone Rock
MW-6S	10/01/04	845.69	32 - 42	829.74	0.028	down	Unconsolidated/Upper Lone Rock
MW-6D	10/01/04	844.97	65 - 70	803.79			Lower Lone Rock
MW-6S	01/01/05	845.18	32 - 42	829.74	0.025	down	Unconsolidated/Upper Lone Rock
MW-6D	01/01/05	844.52	65 - 70	803.79			Lower Lone Rock
MW-6S	03/01/05	844.76	32 - 42	829.74	0.009	down	Unconsolidated/Upper Lone Rock
MW-6D	03/01/05	844.52	65 - 70	803.79			Lower Lone Rock
MW-6S	07/01/05	843.60	32 - 42	829.74	0.024	down	Unconsolidated/Upper Lone Rock
MW-6D	07/01/05	842.99	65 - 70	803.79			Lower Lone Rock

Notes on Page 26.

Table 3-1
Vertical Gradients 2004-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID	Date	Groundwater Elevation (feet amsl)	Screen Interval (feet bls)	Midpoint of Screen (feet amsl)	Vertical Gradient	Direction	Formation
MW-6S	09/01/05	842.52	32 - 42	829.74	0.027	down	Unconsolidated/Upper Lone Rock
MW-6D	09/01/05	841.82	65 - 70	803.79			Lower Lone Rock
MW-6S	12/01/05	840.86	32 - 42	829.74	-0.017	up	Unconsolidated/Upper Lone Rock
MW-6D	12/01/05	841.30	65 - 70	803.79			Lower Lone Rock
MW-6S	03/01/06	841.80	32 - 42	829.74	0.007	down	Unconsolidated/Upper Lone Rock
MW-6D	03/01/06	841.63	65 - 70	803.79			Lower Lone Rock
MW-6S	07/01/06	844.17	32 - 42	829.74	0.021	down	Unconsolidated/Upper Lone Rock
MW-6D	07/01/06	843.63	65 - 70	803.79			Lower Lone Rock
MW-6S	10/01/06	844.88	32 - 42	829.74	0.024	down	Unconsolidated/Upper Lone Rock
MW-6D	10/01/06	844.27	65 - 70	803.79			Lower Lone Rock
MW-6S	12/01/06	845.35	32 - 42	829.74	0.015	down	Unconsolidated/Upper Lone Rock
MW-6D	12/01/06	844.97	65 - 70	803.79			Lower Lone Rock
MW-6S	03/01/07	845.15	32 - 42	829.74	0.013	down	Unconsolidated/Upper Lone Rock
MW-6D	03/01/07	844.82	65 - 70	803.79			Lower Lone Rock
MW-6S	08/01/07	844.73	32 - 42	829.74	-0.009	up	Unconsolidated/Upper Lone Rock
MW-6D	08/01/07	844.96	65 - 70	803.79			Lower Lone Rock
MW-6S	09/01/07	847.74	32 - 42	829.74	0.027	down	Unconsolidated/Upper Lone Rock
MW-6D	09/01/07	847.05	65 - 70	803.79			Lower Lone Rock
MW-6S	12/01/07	846.46	32 - 42	829.74	0.024	down	Unconsolidated/Upper Lone Rock
MW-6D	12/01/07	845.83	65 - 70	803.79			Lower Lone Rock
MW-6S	03/01/08	847.85	32 - 42	829.74	0.021	down	Unconsolidated/Upper Lone Rock
MW-6D	03/01/08	847.30	65 - 70	803.79			Lower Lone Rock
MW-6S	06/01/08	852.61	32 - 42	829.74	0.016	down	Unconsolidated/Upper Lone Rock
MW-6D	06/01/08	852.19	65 - 70	803.79			Lower Lone Rock
MW-6S	09/01/08	849.81	32 - 42	829.74	0.047	down	Unconsolidated/Upper Lone Rock
MW-6D	09/01/08	848.59	65 - 70	803.79			Lower Lone Rock
MW-6S	12/01/08	847.60	32 - 42	829.74	0.030	down	Unconsolidated/Upper Lone Rock
MW-6D	12/01/08	846.82	65 - 70	803.79			Lower Lone Rock
MW-6S	04/01/09	848.00	32 - 42	829.74	0.009	down	Unconsolidated/Upper Lone Rock
MW-6D	04/01/09	847.76	65 - 70	803.79			Lower Lone Rock
MW-6S	06/01/09	850.02	32 - 42	829.74	0.032	down	Unconsolidated/Upper Lone Rock
MW-6D	06/01/09	849.18	65 - 70	803.79			Lower Lone Rock
MW-6S	09/01/09	847.74	32 - 42	829.74	0.039	down	Unconsolidated/Upper Lone Rock
MW-6D	09/01/09	846.74	65 - 70	803.79			Lower Lone Rock
MW-6S	12/01/09	847.43	32 - 42	829.74	0.017	down	Unconsolidated/Upper Lone Rock
MW-6D	12/01/09	846.99	65 - 70	803.79			Lower Lone Rock

Notes on Page 26.

Table 3-1
Vertical Gradients 2004-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID	Date	Groundwater Elevation (feet amsl)	Screen Interval (feet bls)	Midpoint of Screen (feet amsl)	Vertical Gradient	Direction	Formation
MW-6S	07/01/10	849.03	32 - 42	829.74	0.017	down	Unconsolidated/Upper Lone Rock
MW-6D	07/01/10	848.58	65 - 70	803.79			Lower Lone Rock
MW-6S	10/01/10	849.78	32 - 42	829.74	0.034	down	Unconsolidated/Upper Lone Rock
MW-6D	10/01/10	848.89	65 - 70	803.79			Lower Lone Rock
MW-6S	12/01/10	848.14	32 - 42	829.74	0.027	down	Unconsolidated/Upper Lone Rock
MW-6D	12/01/10	847.45	65 - 70	803.79			Lower Lone Rock
MW-6S	04/09/12	845.89	32 - 42	829.74	0.013	down	Unconsolidated/Upper Lone Rock
MW-6D	04/09/12	845.54	65 - 70	803.79			Lower Lone Rock
MW-6S	07/23/12	845.29	32 - 42	829.74	0.033	down	Unconsolidated/Upper Lone Rock
MW-6D	07/23/12	844.44	65 - 70	803.79			Lower Lone Rock
MW-6S	01/14/13	844.38	32 - 42	829.74	0.003	down	Unconsolidated/Upper Lone Rock
MW-6D	01/14/13	844.31	65 - 70	803.79			Lower Lone Rock
MW-6S	04/15/13	845.97	32 - 42	829.74	-0.024	up	Unconsolidated/Upper Lone Rock
MW-6D	04/15/13	846.58	65 - 70	803.79			Lower Lone Rock
MW-6S	07/15/13	851.34	32 - 42	829.74	0.024	down	Unconsolidated/Upper Lone Rock
MW-6D	07/15/13	850.72	65 - 70	803.79			Lower Lone Rock
MW-6S	10/03/13	849.08	32 - 42	829.74	0.040	down	Unconsolidated/Upper Lone Rock
MW-6D	10/03/13	848.04	65 - 70	803.79			Lower Lone Rock
MW-6S	04/14/14	845.89	32 - 42	829.74	0.012	down	Unconsolidated/Upper Lone Rock
MW-6D	04/14/14	845.58	65 - 70	803.79			Lower Lone Rock
MW-6S	07/08/14	848.95	32 - 42	829.74	0.000	none	Unconsolidated/Upper Lone Rock
MW-6D	07/08/14	848.94	65 - 70	803.79			Lower Lone Rock
MW-6S	10/13/14	848.95	32 - 42	829.74	-0.005	up	Unconsolidated/Upper Lone Rock
MW-6D	10/13/14	849.07	65 - 70	803.79			Lower Lone Rock
				Average	**0.000**	**none**	
MW-6D	01/14/13	844.31	65 - 70	803.79	0.015	down	Lower Lone Rock
MW-17	01/14/13	842.85	160 - 170	705.17			Upper Wonewoc
MW-6D	04/15/13	846.58	65 - 70	803.79	0.009	down	Lower Lone Rock
MW-17	04/15/13	845.69	160 - 170	705.17			Upper Wonewoc
MW-6D	07/15/13	850.72	65 - 70	803.79	0.046	down	Lower Lone Rock
MW-17	07/15/13	846.17	160 - 170	705.17			Upper Wonewoc
MW-6D	10/03/13	848.04	65 - 70	803.79	0.037	down	Lower Lone Rock
MW-17	10/03/13	844.44	160 - 170	705.17			Upper Wonewoc
MW-6D	04/14/14	845.58	65 - 70	803.79	0.015	down	Lower Lone Rock
MW-17	04/14/14	844.15	160 - 170	705.17			Upper Wonewoc

Notes on Page 26.

Table 3-1
Vertical Gradients 2004-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID	Date	Groundwater Elevation (feet amsl)	Screen Interval (feet bls)	Midpoint of Screen (feet amsl)	Vertical Gradient	Direction	Formation
MW-6D	07/08/14	848.94	65 - 70	803.79	0.041	down	Lower Lone Rock
MW-17	07/08/14	844.85	160 - 170	705.17			Upper Wonewoc
MW-6D	10/13/14	849.07	65 - 70	803.79	0.041	down	Lower Lone Rock
MW-17	10/13/14	845.03	160 - 170	705.17			Upper Wonewoc
				Average	**0.029**	**down**	
MW-9D	04/09/12	846.14	44 - 49	804.15	0.009	down	Upper Lone Rock
MW-9D2	04/09/12	845.96	64 - 69	783.63			Lower Lone Rock
MW-9D	07/23/12	843.98	44 - 49	804.15	0.008	down	Upper Lone Rock
MW-9D2	07/23/12	843.82	64 - 69	783.63			Lower Lone Rock
MW-9D	01/14/13	844.68	44 - 49	804.15	0.003	down	Upper Lone Rock
MW-9D2	01/14/13	844.62	64 - 69	783.63			Lower Lone Rock
MW-9D	04/15/13	847.90	44 - 49	804.15	0.010	down	Upper Lone Rock
MW-9D2	04/15/13	847.69	64 - 69	783.63			Lower Lone Rock
MW-9D	07/15/13	848.70	44 - 49	804.15	0.005	down	Upper Lone Rock
MW-9D2	07/15/13	848.60	64 - 69	783.63			Lower Lone Rock
MW-9D	10/03/13	846.74	44 - 49	804.15	0.005	down	Upper Lone Rock
MW-9D2	10/03/13	846.64	64 - 69	783.63			Lower Lone Rock
MW-9D	04/14/14	846.54	44 - 49	804.15	0.008	down	Upper Lone Rock
MW-9D2	04/14/14	846.38	64 - 69	783.63			Lower Lone Rock
MW-9D	07/08/14	848.70	44 - 49	804.15	0.006	down	Upper Lone Rock
MW-9D2	07/08/14	848.57	64 - 69	783.63			Lower Lone Rock
MW-9D	10/13/14	846.98	44 - 49	804.15	-0.008	up	Upper Lone Rock
MW-9D2	10/13/14	847.14	64 - 69	783.63			Lower Lone Rock
				Average	**0.005**	**down**	
MP-13	12/01/12	845.49	44 - 48	814.49	0.013	down	Upper Lone Rock
MP-13	12/01/12	845.19	67 - 71	791.49			Lower Lone Rock
MP-13	01/14/13	845.59	44 - 48	814.49	0.016	down	Upper Lone Rock
MP-13	01/14/13	845.22	67 - 71	791.49			Lower Lone Rock
MP-13	04/17/13	849.33	44 - 48	814.49	0.021	down	Upper Lone Rock
MP-13	04/17/13	848.85	67 - 71	791.49			Lower Lone Rock
MP-13	07/22/13	851.55	44 - 48	814.49	0.032	down	Upper Lone Rock
MP-13	07/22/13	850.81	67 - 71	791.49			Lower Lone Rock
MP-13	10/03/13	848.80	44 - 48	814.49	0.026	down	Upper Lone Rock
MP-13	10/03/13	848.20	67 - 71	791.49			Lower Lone Rock

Notes on Page 26.

Table 3-1
Vertical Gradients 2004-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID	Date	Groundwater Elevation (feet amsl)	Screen Interval (feet bls)	Midpoint of Screen (feet amsl)	Vertical Gradient	Direction	Formation
MP-13	12/01/12	845.19	67 - 71	791.49	0.007	down	Lower Lone Rock
MP-13	12/01/12	845.09	81 - 85	777.49			Lower Lone Rock
MP-13	01/14/13	845.22	67 - 71	791.49	0.009	down	Lower Lone Rock
MP-13	01/14/13	845.09	81 - 85	777.49			Lower Lone Rock
MP-13	04/17/13	848.85	67 - 71	791.49	0.016	down	Lower Lone Rock
MP-13	04/17/13	848.62	81 - 85	777.49			Lower Lone Rock
MP-13	07/22/13	850.81	67 - 71	791.49	0.028	down	Lower Lone Rock
MP-13	07/22/13	850.42	81 - 85	777.49			Lower Lone Rock
MP-13	10/03/13	848.20	67 - 71	791.49	0.016	down	Lower Lone Rock
MP-13	10/03/13	847.97	81 - 85	777.49			Lower Lone Rock
MP-13	04/16/14	846.89	67 - 71	791.49	0.015	down	Lower Lone Rock
MP-13	04/16/14	846.68	81 - 85	777.49			Lower Lone Rock
MP-13	07/08/14	849.63	67 - 71	791.49	0.019	down	Lower Lone Rock
MP-13	07/08/14	849.36	81 - 85	777.49			Lower Lone Rock
MP-13	10/13/14	848.09	67 - 71	791.49	0.015	down	Lower Lone Rock
MP-13	10/13/14	847.88	81 - 85	777.49			Lower Lone Rock
				Average	**0.018**	**down**	
MP-13	12/01/12	845.09	81 - 85	777.49	0.048	down	Lower Lone Rock
MP-13	12/01/12	844.09	102 - 106	756.49			Upper Wonewoc
MP-13	01/14/13	845.09	81 - 85	777.49	0.051	down	Lower Lone Rock
MP-13	01/14/13	844.02	102 - 106	756.49			Upper Wonewoc
MP-13	04/17/13	848.62	81 - 85	777.49	0.074	down	Lower Lone Rock
MP-13	04/17/13	847.06	102 - 106	756.49			Upper Wonewoc
MP-13	07/22/13	850.42	81 - 85	777.49	0.135	down	Lower Lone Rock
MP-13	07/22/13	847.59	102 - 106	756.49			Upper Wonewoc
MP-13	10/07/13	847.97	81 - 85	777.49	0.098	down	Lower Lone Rock
MP-13	10/07/13	845.91	102 - 106	756.49			Upper Wonewoc
MP-13	04/16/14	846.68	81 - 85	777.49	0.059	down	Lower Lone Rock
MP-13	04/16/14	845.45	102 - 106	756.49			Upper Wonewoc
MP-13	07/08/14	849.36	81 - 85	777.49	0.094	down	Lower Lone Rock
MP-13	07/08/14	847.39	102 - 106	756.49			Upper Wonewoc
MP-13	10/13/14	847.88	81 - 85	777.49	0.075	down	Lower Lone Rock
MP-13	10/13/14	846.30	102 - 106	756.49			Upper Wonewoc
				Average	**0.079**	**down**	

Notes on Page 26.

Table 3-1
Vertical Gradients 2004-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID	Date	Groundwater Elevation (feet amsl)	Screen Interval (feet bls)	Midpoint of Screen (feet amsl)	Vertical Gradient	Direction	Formation
MP-13	12/01/12	844.09	102 - 106	756.49	0.005	down	Upper Wonewoc
MP-13	12/01/12	843.99	121 - 125	737.49			Upper Wonewoc
MP-13	01/14/13	844.02	102 - 106	756.49	0.002	down	Upper Wonewoc
MP-13	01/14/13	843.98	121 - 125	737.49			Upper Wonewoc
MP-13	04/17/13	847.06	102 - 106	756.49	0.003	down	Upper Wonewoc
MP-13	04/17/13	847.00	121 - 125	737.49			Upper Wonewoc
MP-13	07/22/13	847.59	102 - 106	756.49	0.005	down	Upper Wonewoc
MP-13	07/22/13	847.49	121 - 125	737.49			Upper Wonewoc
MP-13	10/07/13	845.91	102 - 106	756.49	0.003	down	Upper Wonewoc
MP-13	10/07/13	845.85	121 - 125	737.49			Upper Wonewoc
MP-13	12/01/12	843.99	121 - 125	737.49	0.007	down	Upper Wonewoc
MP-13	12/01/12	843.89	135 - 139	723.49			Lower Wonewoc
MP-13	01/14/13	843.98	121 - 125	737.49	0.006	down	Upper Wonewoc
MP-13	01/14/13	843.89	135 - 139	723.49			Lower Wonewoc
MP-13	04/17/13	847.00	121 - 125	737.49	0.008	down	Upper Wonewoc
MP-13	04/17/13	846.89	135 - 139	723.49			Lower Wonewoc
MP-13	07/22/13	847.49	121 - 125	737.49	0.015	down	Upper Wonewoc
MP-13	07/22/13	847.28	135 - 139	723.49			Lower Wonewoc
MP-13	10/07/13	845.85	121 - 125	737.49	0.013	down	Upper Wonewoc
MP-13	10/07/13	845.67	135 - 139	723.49			Lower Wonewoc
MP-13	12/01/12	843.89	135 - 139	723.49	0.011	down	Lower Wonewoc
MP-13	12/01/12	843.59	163 - 167	695.49			Lower Wonewoc
MP-13	01/14/13	843.89	135 - 139	723.49	0.006	down	Lower Wonewoc
MP-13	01/14/13	843.73	163 - 167	695.49			Lower Wonewoc
MP-13	04/17/13	846.89	135 - 139	723.49	0.010	down	Lower Wonewoc
MP-13	04/17/13	846.62	163 - 167	695.49			Lower Wonewoc
MP-13	07/22/13	847.28	135 - 139	723.49	0.015	down	Lower Wonewoc
MP-13	07/22/13	846.87	163 - 167	695.49			Lower Wonewoc
MP-13	10/07/13	845.67	135 - 139	723.49	0.014	down	Lower Wonewoc
MP-13	10/07/13	845.28	163 - 167	695.49			Lower Wonewoc
MP-13	04/16/14	845.30	135 - 139	723.49	-0.020	up	Lower Wonewoc
MP-13	04/16/14	845.87	163 - 167	695.49			Lower Wonewoc
MP-13	07/08/14	847.14	135 - 139	723.49	0.014	down	Lower Wonewoc
MP-13	07/08/14	846.76	163 - 167	695.49			Lower Wonewoc

Notes on Page 26.

Table 3-1
Vertical Gradients 2004-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID	Date	Groundwater Elevation (feet amsl)	Screen Interval (feet bls)	Midpoint of Screen (feet amsl)	Vertical Gradient	Direction	Formation
MP-13	10/13/14	846.15	135 - 139	723.49	0.016	down	Lower Wonewoc
MP-13	10/13/14	845.71	163 - 167	695.49			Lower Wonewoc
				Average	**0.007**	**down**	
MP-14	01/14/13	845.55	70 - 75	789.38	0.043	down	Lower Lone Rock
MP-14	01/14/13	844.25	100 - 105	759.38			Upper Wonewoc
MP-14	04/16/13	849.22	70 - 75	789.38	0.059	down	Lower Lone Rock
MP-14	04/16/13	847.46	100 - 105	759.38			Upper Wonewoc
MP-14	07/22/13	852.20	70 - 75	789.38	0.125	down	Lower Lone Rock
MP-14	07/22/13	848.45	100 - 105	759.38			Upper Wonewoc
MP-14	10/08/13	849.31	70 - 75	789.38	0.093	down	Lower Lone Rock
MP-14	10/08/13	846.53	100 - 105	759.38			Upper Wonewoc
MP-14	04/14/14	847.61	70 - 75	789.38	0.057	down	Lower Lone Rock
MP-14	04/14/14	845.91	100 - 105	759.38			Upper Wonewoc
MP-14	07/08/14	851.09	70 - 75	789.38	0.094	down	Lower Lone Rock
MP-14	07/08/14	848.26	100 - 105	759.38			Upper Wonewoc
MP-14	10/16/14	849.34	70 - 75	789.38	0.078	down	Lower Lone Rock
MP-14	10/16/14	846.99	100 - 105	759.38			Upper Wonewoc
				Average	**0.078**	**down**	
MP-14	01/14/13	844.25	100 - 105	759.38	0.009	down	Upper Wonewoc
MP-14	01/14/13	843.94	135 - 140	724.38			Lower Wonewoc
MP-14	04/16/13	847.46	100 - 105	759.38	0.009	down	Upper Wonewoc
MP-14	04/16/13	847.13	135 - 140	724.38			Lower Wonewoc
MP-14	07/22/13	848.45	100 - 105	759.38	0.021	down	Upper Wonewoc
MP-14	07/22/13	847.73	135 - 140	724.38			Lower Wonewoc
MP-14	10/08/13	846.53	100 - 105	759.38	0.015	down	Upper Wonewoc
MP-14	10/08/13	846.00	135 - 140	724.38			Lower Wonewoc
MP-14	01/14/13	843.94	135 - 140	724.38	0.006	down	Lower Wonewoc
MP-14	01/14/13	843.71	170 - 178	684.88			Lower Wonewoc
MP-14	04/16/13	847.13	135 - 140	724.38	0.006	down	Lower Wonewoc
MP-14	04/16/13	846.88	170 - 178	684.88			Lower Wonewoc
MP-14	07/22/13	847.73	135 - 140	724.38	0.013	down	Lower Wonewoc
MP-14	07/22/13	847.20	170 - 178	684.88			Lower Wonewoc
MP-14	10/08/13	846.00	135 - 140	724.38	0.012	down	Lower Wonewoc
MP-14	10/08/13	845.54	170 - 178	684.88			Lower Wonewoc

Notes on Page 26.

Table 3-1
Vertical Gradients 2004-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID	Date	Groundwater Elevation (feet amsl)	Screen Interval (feet bls)	Midpoint of Screen (feet amsl)	Vertical Gradient	Direction	Formation
MP-14	04/14/14	845.58	135 - 140	724.38	0.006	down	Lower Wonewoc
MP-14	04/14/14	845.33	170 - 178	684.88			Lower Wonewoc
MP-14	07/08/14	847.73	135 - 140	724.38	0.011	down	Lower Wonewoc
MP-14	07/08/14	847.31	170 - 178	684.88			Lower Wonewoc
MP-14	10/16/14	846.53	135 - 140	724.38	0.009	down	Lower Wonewoc
MP-14	10/16/14	846.16	170 - 178	684.88			Lower Wonewoc
				Average	**0.011**	**down**	
MP-15	01/14/13	844.38	88 - 92	761.98	-0.003	up	Upper Wonewoc
MP-15	01/14/13	844.42	100 - 105	748.48			Upper Wonewoc
MP-15	04/15/13	852.23	88 - 92	761.98	0.370	down	Upper Wonewoc
MP-15	04/15/13	847.23	100 - 105	748.48			Upper Wonewoc
MP-15	07/22/13	847.45	88 - 92	761.98	0.002	down	Upper Wonewoc
MP-15	07/22/13	847.42	100 - 105	748.48			Upper Wonewoc
MP-15	10/08/13	845.98	88 - 92	761.98	-0.001	up	Upper Wonewoc
MP-15	10/08/13	845.99	100 - 105	748.48			Upper Wonewoc
MP-15	01/14/13	844.42	100 - 105	748.48	0.003	down	Upper Wonewoc
MP-15	01/14/13	844.35	120 - 125	728.48			Lower Wonewoc
MP-15	04/15/13	847.23	100 - 105	748.48	0.002	down	Upper Wonewoc
MP-15	04/15/13	847.19	120 - 125	728.48			Lower Wonewoc
MP-15	07/22/13	847.42	100 - 105	748.48	0.007	down	Upper Wonewoc
MP-15	07/22/13	847.28	120 - 125	728.48			Lower Wonewoc
MP-15	10/08/13	845.99	100 - 105	748.48	0.007	down	Upper Wonewoc
MP-15	10/08/13	845.85	120 - 125	728.48			Lower Wonewoc
MP-15	01/14/13	844.35	120 - 125	728.48	0.007	down	Lower Wonewoc
MP-15	01/14/13	844.20	142 - 146	707.98			Lower Wonewoc
MP-15	04/15/13	847.19	120 - 125	728.48	0.012	down	Lower Wonewoc
MP-15	04/15/13	846.95	142 - 146	707.98			Lower Wonewoc
MP-15	07/22/13	847.28	120 - 125	728.48	0.019	down	Lower Wonewoc
MP-15	07/22/13	846.90	142 - 146	707.98			Lower Wonewoc
MP-15	10/08/13	845.85	120 - 125	728.48	0.013	down	Lower Wonewoc
MP-15	10/08/13	845.59	142 - 146	707.98			Lower Wonewoc
MP-15	01/14/13	844.20	142 - 146	707.98	0.001	down	Lower Wonewoc
MP-15	01/14/13	844.14	177 - 187	663.98			Lower Wonewoc
MP-15	04/15/13	846.95	142 - 146	707.98	0.002	down	Lower Wonewoc
MP-15	04/15/13	846.87	177 - 187	663.98			Lower Wonewoc

Notes on Page 26.

Table 3-1
Vertical Gradients 2004-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID	Date	Groundwater Elevation (feet amsl)	Screen Interval (feet bls)	Midpoint of Screen (feet amsl)	Vertical Gradient	Direction	Formation
MP-15	07/22/13	846.90	142 - 146	707.98	0.002	down	Lower Wonewoc
MP-15	07/22/13	846.82	177 - 187	663.98			Lower Wonewoc
MP-15	10/08/13	845.59	142 - 146	707.98	0.002	down	Lower Wonewoc
MP-15	10/08/13	845.50	177 - 187	663.98			Lower Wonewoc
MP-15	04/15/14	845.45	142 - 146	707.98	0.002	down	Lower Wonewoc
MP-15	04/15/14	845.37	177 - 187	663.98			Lower Wonewoc
MP-15	07/08/14	847.22	142 - 146	707.98	0.002	down	Lower Wonewoc
MP-15	07/08/14	847.14	177 - 187	663.98			Lower Wonewoc
MP-15	10/16/14	846.21	142 - 146	707.98	0.002	down	Lower Wonewoc
MP-15	10/16/14	846.13	177 - 187	663.98			Lower Wonewoc
				Average	**0.024**	**down**	
MP-16	01/14/13	844.38	80 - 84	784.68	0.027	down	Lower Lone Rock
MP-16	01/14/13	843.45	106 - 116	749.68			Upper Wonewoc
MP-16	04/16/13	847.19	80 - 84	784.68	0.022	down	Lower Lone Rock
MP-16	04/16/13	846.41	106 - 116	749.68			Upper Wonewoc
MP-16	07/23/13	850.19	80 - 84	784.68	0.088	down	Lower Lone Rock
MP-16	07/23/13	847.10	106 - 116	749.68			Upper Wonewoc
MP-16	10/09/13	847.52	80 - 84	784.68	0.059	down	Lower Lone Rock
MP-16	10/09/13	845.46	106 - 116	749.68			Upper Wonewoc
MP-16	04/15/14	846.09	80 - 84	784.68	0.028	down	Lower Lone Rock
MP-16	04/15/14	845.11	106 - 116	749.68			Upper Wonewoc
MP-16	07/08/14	849.27	80 - 84	784.68	0.063	down	Lower Lone Rock
MP-16	07/08/14	847.08	106 - 116	749.68			Upper Wonewoc
MP-16	10/16/14	847.98	80 - 84	784.68	0.054	down	Lower Lone Rock
MP-16	10/16/14	846.08	106 - 116	749.68			Upper Wonewoc
				Average	**0.049**	**down**	
MP-16	01/14/13	843.45	106 - 116	749.68	0.006	down	Upper Wonewoc
MP-16	01/14/13	843.29	140 - 144	724.68			Lower Wonewoc
MP-16	04/16/13	846.41	106 - 116	749.68	0.006	down	Upper Wonewoc
MP-16	04/16/13	846.27	140 - 144	724.68			Lower Wonewoc
MP-16	07/23/13	847.10	106 - 116	749.68	0.016	down	Upper Wonewoc
MP-16	07/23/13	846.69	140 - 144	724.68			Lower Wonewoc
MP-16	10/09/13	845.46	106 - 116	749.68	0.011	down	Upper Wonewoc
MP-16	10/08/13	845.19	140 - 144	724.68			Lower Wonewoc

Notes on Page 26.

Table 3-1
Vertical Gradients 2004-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID	Date	Groundwater Elevation (feet amsl)	Screen Interval (feet bls)	Midpoint of Screen (feet amsl)	Vertical Gradient	Direction	Formation
MP-16	01/14/13	843.29	140 - 144	724.68	0.007	down	Lower Wonewoc
MP-16	01/14/13	843.04	175 - 179	689.68			Lower Wonewoc
MP-16	04/16/13	846.27	140 - 144	724.68	0.008	down	Lower Wonewoc
MP-16	04/16/13	845.99	175 - 179	689.68			Lower Wonewoc
MP-16	07/23/13	846.69	140 - 144	724.68	0.018	down	Lower Wonewoc
MP-16	07/23/13	846.06	175 - 179	689.68			Lower Wonewoc
MP-16	10/08/13	845.19	140 - 144	724.68	0.011	down	Lower Wonewoc
MP-16	10/08/13	844.79	175 - 179	689.68			Lower Wonewoc
MP-16	04/15/14	844.98	140 - 144	724.68	0.008	down	Lower Wonewoc
MP-16	04/15/14	844.70	175 - 179	689.68			Lower Wonewoc
MP-16	07/08/14	846.80	140 - 144	724.68	0.013	down	Lower Wonewoc
MP-16	07/08/14	846.36	175 - 179	689.68			Lower Wonewoc
MP-16	10/16/14	845.79	140 - 144	724.68	0.011	down	Lower Wonewoc
MP-16	10/16/14	845.39	175 - 179	689.68			Lower Wonewoc
				Average	**0.011**	**down**	
MW-22S	01/14/13	844.65	25 - 35	834.45	-0.009	up	Unconsolidated
MW-22D	01/14/13	844.76	45 - 50	821.95			Upper Lone Rock
MW-22S	04/15/13	847.48	25 - 35	834.45	-0.014	up	Unconsolidated
MW-22D	04/15/13	847.66	45 - 50	821.95			Upper Lone Rock
MW-22S	07/15/13	851.47	25 - 35	834.45	-0.010	up	Unconsolidated
MW-22D	07/15/13	851.60	45 - 50	821.95			Upper Lone Rock
MW-22S	10/03/13	849.01	25 - 35	834.45	-0.143	up	Unconsolidated
MW-22D	10/03/13	850.80	45 - 50	821.95			Upper Lone Rock
MW-22S	04/14/14	846.32	25 - 35	834.45	-0.001	up	Unconsolidated
MW-22D	04/14/14	846.33	45 - 50	821.95			Upper Lone Rock
MW-22S	07/08/14	850.01	25 - 35	834.45	0.000	up	Unconsolidated
MW-22D	07/08/14	850.01	45 - 50	821.95			Upper Lone Rock
MW-22S	10/13/14	848.84	25 - 35	834.45	0.001	down	Unconsolidated
MW-22D	10/13/14	848.83	45 - 50	821.95			Upper Lone Rock
				Average	**-0.025**	**up**	
MW-23S	01/14/13	844.96	25 - 35	834.55	0.011	down	Unconsolidated
MW-23D	01/14/13	844.82	45 - 50	822.05			Upper Lone Rock
MW-23S	04/15/13	847.52	25 - 35	834.55	-0.010	up	Unconsolidated
MW-23D	04/15/13	847.65	45 - 50	822.05			Upper Lone Rock

Notes on Page 26.

Table 3-1
Vertical Gradients 2004-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID	Date	Groundwater Elevation (feet amsl)	Screen Interval (feet bls)	Midpoint of Screen (feet amsl)	Vertical Gradient	Direction	Formation
MW-23S	07/15/13	852.15	25 - 35	834.55	0.035	down	Unconsolidated
MW-23D	07/15/13	851.71	45 - 50	822.05			Upper Lone Rock
MW-23S	10/03/13	849.72	25 - 35	834.55	0.060	down	Unconsolidated
MW-23D	10/03/13	848.97	45 - 50	822.05			Upper Lone Rock
MW-23S	04/14/14	846.61	25 - 35	834.55	0.017	down	Unconsolidated
MW-23D	04/14/14	846.40	45 - 50	822.05			Upper Lone Rock
MW-23S	07/08/14	850.21	25 - 35	834.55	0.010	down	Unconsolidated
MW-23D	07/08/14	850.08	45 - 50	822.05			Upper Lone Rock
MW-23S	10/13/14	849.42	25 - 35	834.55	0.047	down	Unconsolidated
MW-23D	10/13/14	848.83	45 - 50	822.05			Upper Lone Rock
				Average	**0.024**	**down**	
MW-25D	05/06/13	845.14	120 - 130	761.97	0.003	down	Upper Wonewoc
MW-25D2	05/06/13	845.03	160 - 170	721.97			Upper Wonewoc
MW-25D	07/15/13	845.62	120 - 130	761.97	0.009	down	Upper Wonewoc
MW-25D2	07/15/13	845.25	160 - 170	721.97			Upper Wonewoc
MW-25D	10/03/13	843.91	120 - 130	761.97	0.008	down	Upper Wonewoc
MW-25D2	10/03/13	843.60	160 - 170	721.97			Upper Wonewoc
MW-25D	04/14/14	843.33	120 - 130	761.97	0.000	down	Upper Wonewoc
MW-25D2	04/14/14	843.32	160 - 170	721.97			Upper Wonewoc
MW-25D	07/08/14	844.94	120 - 130	761.97	0.004	down	Upper Wonewoc
MW-25D2	07/08/14	844.77	160 - 170	721.97			Upper Wonewoc
MW-25D	10/13/14	844.64	120 - 130	761.97	0.006	down	Upper Wonewoc
MW-25D2	10/13/14	844.39	160 - 170	721.97			Upper Wonewoc
				Average	**0.005**	**down**	
MW-27D	12/26/13	845.40	130 - 140	727.96	-0.0002	up	Upper Wonewoc
MW-27D2	12/26/13	845.41	170 - 180	687.96			Lower Wonewoc
MW-27D	04/14/14	845.39	130 - 140	727.96	0.0020	down	Upper Wonewoc
MW-27D2	04/14/14	845.31	170 - 180	687.96			Lower Wonewoc
MW-27D	07/08/14	847.08	130 - 140	727.96	0.0015	down	Upper Wonewoc
MW-27D2	07/08/14	847.02	170 - 180	687.96			Lower Wonewoc
MW-27D	10/13/14	845.84	130 - 140	727.96	0.0252	down	Upper Wonewoc
MW-27D2	10/13/14	844.83	170 - 180	687.96			Lower Wonewoc
				Average	**0.0071**	**down**	

Acronyms and Abbreviations:
amsl = above mean sea level
bls = below land surface
NM = not measured

Table 4-1
Supplemental Building Interior Soil Analytical Results

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Boring ID	Industrial	TSCA	B-136			B-148			B-149			
Sample Date	Direct	Disposal	10/25/12	1/15/14	1/15/14	10/19/12	1/2/14	1/2/14	10/19/12	10/19/12	1/2/14	1/2/14
Sample Depth (feet bls)	Contact RCL	Limit	2-4	4-6	10-12	5.8-7.8	10-12	17.5-19.5	0.7-2.7	5.7-7.7	8-10	10-11.4
VOCs												
1,2,3-Trichlorobenzene	151	NE	<0.69	<0.039	<0.047	<0.02	<0.03	<0.031	<0.021	<0.02	<0.031	<0.03
1,2,4-Trichlorobenzene	98.7	NE	<0.75	<0.042	<0.051	0.15	0.16 J	<0.033	<0.023	<0.021	<0.034	<0.032
1,2,4-Trimethylbenzene	219	NE	50	0.094 J	0.67	0.53	0.2	<0.019	0.29	<0.012	0.31	0.28
1,2-Dichlorobenzene	376	NE	<0.41	<0.023	<0.028	<0.012	<0.018	<0.018	<0.012	<0.012	<0.018	<0.017
1,3,5-Trimethylbenzene	182	NE	19	<0.023	0.22 J	0.19	0.053 J	<0.018	0.1 J	<0.012	0.096 J	0.091 J
1,3-Dichlorobenzene	297	NE	<0.51	<0.028	<0.035	<0.015	<0.022	<0.023	<0.015	<0.015	<0.023	<0.022
1,4-Dichlorobenzene	17.5	NE	<0.34	<0.019	<0.023	<0.01	<0.015	<0.015	<0.01	<0.0099	<0.016	<0.015
cis-1,2-Dichloroethene	2,040	NE	<0.24	<0.014	<0.017	0.13	<0.011	<0.011	<0.0074	<0.007	<0.011	<0.01
Ethylbenzene	37	NE	<0.25	<0.014	<0.017	<0.0072	<0.011	<0.011	<0.0076	<0.0071	<0.011	<0.011
Isopropylbenzene	268	NE	<0.5	<0.028	<0.034	0.21	<0.022	<0.022	0.043 J	<0.014	<0.022	<0.021
Naphthalene	26	NE	6.5	<0.055	<0.066	0.15	0.089 J	<0.044	<0.03	<0.028	<0.044	0.11 J
N-Butylbenzene	108	NE	<0.26	<0.014	0.18	<0.0074	0.059 J	<0.011	<0.0078	<0.0073	0.069 J	0.066 J
N-Propylbenzene	264	NE	2.1 J	<0.019	0.071 J	0.069 J	<0.015	<0.016	0.038 J	<0.0099	<0.016	<0.015
p-Isopropyltolene	162	NE	8.7	<0.02	0.12 J	0.064 J	<0.016	<0.016	<0.011	<0.01	<0.017	<0.016
sec-Butylbenzene	145	NE	4.2	<0.017	0.081 J	0.073	<0.013	<0.014	<0.0093	<0.0087	<0.014	<0.013
Tetrachloroethene	153	NE	<0.33	0.14	0.16	2	1.4	<0.015	0.12	0.046 J	0.077 J	0.3
Toluene	818	NE	<0.23	<0.013	<0.015	<0.0066	<0.0099	<0.01	0.01 J	<0.0065	<0.01	0.03
trans-1,2-Dichloroethene	976	NE	<0.49	<0.028	<0.034	<0.014	<0.022	<0.022	<0.015	<0.014	<0.022	<0.021
Trichloroethene	8.81	NE	<0.37	0.029 J	<0.025	0.068	<0.016	<0.016	0.016 J	<0.011	<0.017	<0.016
Vinyl Chloride	2.03	NE	<0.21	<0.012	<0.014	0.02	<0.009	<0.0092	<0.0063	<0.0059	<0.0093	<0.0088
Total Xylenes	258	NE	<0.14	<0.0076	<0.0092	0.092	<0.0059	<0.0061	0.051	<0.0039	0.05	0.072
PCBs												
Aroclor 1242	0.744	NE	**56**	**12**	**11**	**20,000**	**1,600**	**1.1**	**10,000**	**12,000**	**800**	**27**
Aroclor 1248	0.744	NE	<1.6	<0.4	<0.34	<380	<34	<0.035	<190	<370	<35	<1.3
Aroclor 1254	0.744	NE	<0.89	<0.22	<0.19	<210	<19	<0.019	<100	<200	<19	<0.72
Total Detected PCBs	NE	50	56	12	11	20,000	1,600	1.1	10,000	12,000	800	27

Footnotes on Page 10.

Table 4-1
Supplemental Building Interior Soil Analytical Results

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Boring ID	Industrial	TSCA	B-150			B-158				B-160		
Sample Date	Direct	Disposal	10/19/12	1/2/14	1/2/14	10/17/12	12/30/13	12/30/13	1/3/14	10/17/12	1/3/14	1/3/14
Sample Depth (feet bls)	Contact RCL	Limit	1-3	13-15	18-20	4-6	8-9	10-12	15-17	0.9-2.9	12-14	17-19
VOCs												
1,2,3-Trichlorobenzene	151	NE	<0.021	<0.03	<0.029	<0.02	<0.032	<0.034	0.47	<0.021	<0.028	<0.028
1,2,4-Trichlorobenzene	98.7	NE	<0.023	<0.033	<0.031	0.051 J	0.083 J	<0.037	0.34	<0.022	<0.03	<0.03
1,2,4-Trimethylbenzene	219	NE	<0.013	0.079 J	0.1 J	0.09 J	0.19	0.29	0.32	<0.012	<0.017	<0.017
1,2-Dichlorobenzene	376	NE	<0.013	<0.018	<0.017	0.098 J	<0.019	<0.02	0.5	<0.012	<0.016	<0.017
1,3,5-Trimethylbenzene	182	NE	<0.013	<0.018	<0.017	0.031 J	0.055 J	0.086 J	0.086 J	<0.012	<0.016	<0.017
1,3-Dichlorobenzene	297	NE	<0.016	<0.022	<0.021	<0.015	<0.023	<0.025	0.37	<0.015	<0.02	<0.021
1,4-Dichlorobenzene	17.5	NE	<0.011	<0.015	<0.014	<0.01	<0.016	<0.017	0.2	<0.01	<0.014	<0.014
cis-1,2-Dichloroethene	2,040	NE	<0.0075	0.18	0.36	<0.0071	<0.011	0.071 J	0.23	<0.0073	<0.0098	<0.0099
Ethylbenzene	37	NE	<0.0077	<0.011	<0.01	<0.0073	<0.011	<0.012	<0.011	<0.0074	<0.01	<0.01
Isopropylbenzene	268	NE	<0.015	<0.022	<0.021	0.16	0.28	0.26	0.41	<0.015	<0.02	<0.02
Naphthalene	26	NE	<0.03	<0.043	0.095 J	<0.029	<0.045	<0.048	0.11 J	<0.029	<0.039	<0.04
N-Butylbenzene	108	NE	<0.0079	<0.011	<0.011	<0.0075	<0.012	0.071 J	0.085	<0.0076	<0.01	<0.01
N-Propylbenzene	264	NE	<0.011	<0.015	<0.014	<0.01	<0.016	<0.017	<0.015	<0.01	<0.014	<0.014
p-Isopropyltolene	162	NE	<0.011	<0.016	<0.015	<0.011	<0.017	<0.018	<0.016	<0.011	<0.015	<0.015
sec-Butylbenzene	145	NE	<0.0094	<0.013	<0.013	<0.0089	<0.014	<0.015	<0.013	<0.0091	<0.012	<0.012
Tetrachloroethene	153	NE	0.038 J	1.9	3.1	<0.0097	0.055 J	0.96	0.64	<0.0098	<0.013	<0.013
Toluene	818	NE	<0.007	<0.0099	<0.0095	<0.0067	<0.01	0.024	0.017 J	<0.0068	<0.0092	<0.0093
trans-1,2-Dichloroethene	976	NE	<0.015	<0.022	<0.021	<0.015	<0.023	<0.024	<0.021	<0.015	<0.02	<0.02
Trichloroethene	8.81	NE	<0.011	0.068	0.14	<0.011	<0.017	<0.018	0.04 J	<0.011	<0.015	<0.015
Vinyl Chloride	2.03	NE	<0.0064	<0.009	<0.0086	<0.006	<0.0094	<0.01	<0.0089	<0.0061	<0.0083	<0.0084
Total Xylenes	258	NE	<0.0042	<0.0059	<0.0057	<0.004	<0.0062	0.084	0.031 J	<0.004	<0.0054	<0.0055
PCBs												
Aroclor 1242	0.744	NE	**2,800**	**12**	0.32	**1,900 B**	**340**	**170**	**1,100**	**200 B**	**1.8**	<0.0058
Aroclor 1248	0.744	NE	<79	<0.68	<0.0068	<73	<13	<3.4	<33	<7.7	<0.067	<0.007
Aroclor 1254	0.744	NE	<43	<0.37	<0.0037	<40	<7.3	<1.9	<18	<4.2	<0.036	<0.0038
Total Detected PCBs	NE	50	2,800	12	0.32	1,900	340	170	1,100	200	1.8	ND

Footnotes on Page 10.

Table 4-1
Supplemental Building Interior Soil Analytical Results

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Boring ID	Industrial	TSCA	B-175			B-176			B-177	B-178	
Sample Date	Direct	Disposal	12/30/13	12/30/13	12/30/13	12/30/13	12/30/13	12/30/13	1/3/14	1/2/14	1/2/14
Sample Depth (feet bls)	Contact RCL	Limit	2-4	14-16	18.5-20.5	2-4	12-14	18.5-20.5	2-4	2-4	6-7.5
VOCs											
1,2,3-Trichlorobenzene	151	NE	<0.035	<0.03	<0.031	<0.039	<0.027	<0.031	<0.044	<0.035	<0.037
1,2,4-Trichlorobenzene	98.7	NE	<0.038	<0.033	<0.034	<0.042	<0.029	<0.033	<0.047	<0.038	<0.04
1,2,4-Trimethylbenzene	219	NE	<0.021	<0.018	<0.019	<0.024	<0.016	<0.019	<0.026	<0.021	<0.022
1,2-Dichlorobenzene	376	NE	<0.021	<0.018	<0.018	<0.023	<0.016	<0.018	<0.025	<0.021	<0.022
1,3,5-Trimethylbenzene	182	NE	<0.021	<0.018	<0.018	<0.023	<0.016	<0.018	<0.026	<0.021	<0.022
1,3-Dichlorobenzene	297	NE	<0.026	<0.022	<0.023	<0.029	<0.02	<0.023	<0.032	<0.026	<0.027
1,4-Dichlorobenzene	17.5	NE	<0.017	<0.015	<0.016	<0.02	<0.013	<0.015	<0.022	<0.018	<0.018
cis-1,2-Dichloroethene	2,040	NE	<0.012	<0.011	<0.011	<0.014	<0.0095	<0.011	<0.015	<0.012	<0.013
Ethylbenzene	37	NE	<0.013	<0.011	<0.011	<0.014	<0.0097	<0.011	<0.016	<0.013	<0.013
Isopropylbenzene	268	NE	<0.025	<0.022	<0.022	<0.028	<0.019	<0.022	<0.031	<0.025	<0.026
Naphthalene	26	NE	<0.05	<0.043	<0.044	<0.055	<0.038	<0.044	<0.061	<0.05	<0.052
N-Butylbenzene	108	NE	<0.013	<0.011	<0.012	<0.014	<0.0099	<0.011	<0.016	<0.013	<0.014
N-Propylbenzene	264	NE	<0.018	<0.015	<0.016	<0.02	<0.013	<0.015	<0.022	<0.018	<0.018
p-Isopropyltolene	162	NE	<0.019	<0.016	<0.017	<0.021	<0.014	<0.016	<0.023	<0.019	<0.019
sec-Butylbenzene	145	NE	<0.015	<0.013	<0.014	<0.017	<0.012	<0.014	<0.019	<0.016	<0.016
Tetrachloroethene	153	NE	<0.017	<0.014	<0.015	<0.019	<0.013	<0.015	<0.021	0.078 J	<0.018
Toluene	818	NE	<0.012	0.026	<0.01	0.083	<0.0089	<0.01	<0.014	<0.012	<0.012
trans-1,2-Dichloroethene	976	NE	<0.025	<0.022	<0.022	<0.028	<0.019	<0.022	<0.031	<0.025	<0.026
Trichloroethene	8.81	NE	<0.019	<0.016	<0.017	<0.021	<0.014	<0.016	<0.023	<0.019	<0.02
Vinyl Chloride	2.03	NE	<0.01	<0.009	<0.0093	<0.012	<0.008	<0.0092	<0.013	<0.01	<0.011
Total Xylenes	258	NE	<0.0069	<0.0059	<0.0061	<0.0077	<0.0053	<0.006	<0.0085	<0.0069	<0.0072
PCBs											
Aroclor 1242	0.744	NE	0.051	<0.0056	0.011 J	0.017 J	0.011 J	0.011 J	0.019 J	0.016 J	<0.0064
Aroclor 1248	0.744	NE	<0.0081	<0.0068	<0.007	<0.0078	<0.0066	<0.0067	<0.0078	<0.0077	<0.0076
Aroclor 1254	0.744	NE	<0.0044	<0.0037	<0.0038	<0.0042	<0.0036	<0.0037	<0.0043	<0.0042	<0.0042
Total Detected PCBs	NE	50	0.051	ND	0.011	0.017	0.011	0.011	0.019	0.016	ND

Footnotes on Page 10.

Table 4-1
Supplemental Building Interior Soil Analytical Results

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Boring ID	Industrial	TSCA	B-178 (continued)	B-179				B-180			B-181
Sample Date	Direct	Disposal	1/2/14	1/3/14	1/3/14	1/3/14	1/4/14	1/2/14	1/2/14	1/2/14	1/2/14
Sample Depth (feet bls)	Contact RCL	Limit	9-11	2-4	4-6	9-11	21.1-23.1	0-2	4-6	14.6-16.6	1.5-3.5
VOCs											
1,2,3-Trichlorobenzene	151	NE	<0.031	<0.034	<0.039	<0.019	<0.031	<0.042	<0.035	<0.037	<0.046
1,2,4-Trichlorobenzene	98.7	NE	<0.034	<0.037	<0.042	0.16	<0.033	<0.046	0.51	0.26	<0.049
1,2,4-Trimethylbenzene	219	NE	<0.019	0.14 J	0.32	0.33	<0.019	0.17 J	1.6	0.72	0.58
1,2-Dichlorobenzene	376	NE	<0.018	<0.02	<0.023	<0.011	<0.018	<0.025	<0.02	<0.022	<0.027
1,3,5-Trimethylbenzene	182	NE	<0.018	<0.02	0.086 J	0.084 J	<0.018	0.069 J	0.44	0.18 J	0.59
1,3-Dichlorobenzene	297	NE	<0.023	<0.025	<0.029	<0.014	<0.023	<0.031	0.12 J	<0.028	<0.034
1,4-Dichlorobenzene	17.5	NE	<0.016	<0.017	<0.02	<0.0093	<0.015	<0.021	<0.017	<0.019	<0.023
cis-1,2-Dichloroethene	2,040	NE	<0.011	<0.012	<0.014	<0.0066	<0.011	<0.015	<0.012	<0.013	<0.016
Ethylbenzene	37	NE	<0.011	<0.012	<0.014	<0.0067	<0.011	<0.015	0.048	<0.013	<0.016
Isopropylbenzene	268	NE	<0.022	0.12 J	0.44	0.21	<0.022	0.096 J	0.78	<0.027	0.097 J
Naphthalene	26	NE	<0.044	<0.048	<0.055	0.1 J	<0.043	<0.06	0.28	0.14 J	<0.065
N-Butylbenzene	108	NE	<0.012	<0.012	0.089 J	0.098	<0.011	<0.016	0.43	0.27	0.083 J
N-Propylbenzene	264	NE	<0.016	<0.017	<0.02	0.048 J	<0.015	<0.021	0.2	0.085 J	0.069 J
p-Isopropyltolene	162	NE	<0.017	<0.018	<0.021	0.045 J	<0.016	<0.022	0.22	0.11 J	<0.024
sec-Butylbenzene	145	NE	<0.014	<0.015	<0.017	<0.0082	<0.014	<0.019	0.17	0.093 J	0.066 J
Tetrachloroethene	153	NE	<0.015	<0.016	<0.019	0.46	<0.015	<0.02	<0.017	1.1	0.24
Toluene	818	NE	<0.01	<0.011	<0.013	<0.0061	<0.01	<0.014	0.047	<0.012	<0.015
trans-1,2-Dichloroethene	976	NE	<0.022	<0.024	<0.028	<0.013	<0.022	<0.03	<0.025	<0.027	<0.033
Trichloroethene	8.81	NE	<0.017	<0.018	<0.021	<0.0099	<0.016	<0.022	<0.019	<0.02	<0.024
Vinyl Chloride	2.03	NE	<0.0093	<0.01	<0.012	<0.0056	<0.0092	<0.013	<0.01	<0.011	<0.014
Total Xylenes	258	NE	<0.0061	<0.0066	<0.0077	0.06	<0.006	<0.0082	0.29	0.085	0.13
PCBs											
Aroclor 1242	0.744	NE	<0.0055	**60**	**2,300**	**3,400**	0.11	**45**	**800**	**1,200**	**160**
Aroclor 1248	0.744	NE	<0.0066	<1.5	<74	<130	<0.007	<1.6	<37	<36	<7.9
Aroclor 1254	0.744	NE	<0.0036	<0.83	<41	<70	<0.0038	<0.87	<20	<20	<4.3
Total Detected PCBs	NE	50	ND	60	2,300	3,400	0.11	45	800	1,200	160

Footnotes on Page 10.

Table 4-1
Supplemental Building Interior Soil Analytical Results

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Boring ID	Industrial	TSCA	B-181 (continued)			B-182			B-183		
Sample Date	Direct	Disposal	1/2/14	1/2/14	1/3/14	1/2/14	1/2/14	1/2/14	1/3/14	1/3/14	1/3/14
Sample Depth (feet bls)	Contact RCL	Limit	4-6	8.4-10.4	18.1-20.1	1.2-3.2	5.1-7.1	13.5-15.5	1.7-3.7	8-10	17.3-19.3
VOCs											
1,2,3-Trichlorobenzene	151	NE	<0.039	<0.028	<0.029	<0.034	<0.034	<0.033	<0.039	<0.035	<0.031
1,2,4-Trichlorobenzene	98.7	NE	0.1 J	0.072 J	<0.031	0.078 J	0.079 J	0.13 J	<0.042	<0.038	<0.033
1,2,4-Trimethylbenzene	219	NE	1	0.3	0.093 J	0.21	0.17 J	0.23	<0.023	<0.021	<0.019
1,2-Dichlorobenzene	376	NE	<0.023	<0.017	<0.017	<0.02	<0.02	<0.019	<0.023	<0.02	<0.018
1,3,5-Trimethylbenzene	182	NE	0.96	0.09 J	<0.017	0.066 J	0.053 J	0.061 J	<0.023	<0.021	<0.018
1,3-Dichlorobenzene	297	NE	<0.028	<0.021	<0.021	<0.025	<0.025	<0.024	<0.029	<0.026	<0.023
1,4-Dichlorobenzene	17.5	NE	<0.019	<0.014	<0.014	<0.017	<0.017	<0.016	<0.019	<0.017	<0.015
cis-1,2-Dichloroethene	2,040	NE	0.059 J	0.076 J	0.22	<0.012	<0.012	0.39	<0.014	<0.012	<0.011
Ethylbenzene	37	NE	<0.014	<0.01	<0.01	<0.012	<0.012	<0.012	<0.014	<0.013	<0.011
Isopropylbenzene	268	NE	0.12 J	<0.02	<0.021	0.11 J	0.1 J	0.064 J	<0.028	<0.025	<0.022
Naphthalene	26	NE	<0.054	0.059 J	<0.041	<0.048	<0.048	0.077 J	<0.055	<0.049	<0.043
N-Butylbenzene	108	NE	0.18	0.076 J	<0.011	<0.013	<0.013	0.076 J	<0.014	<0.013	<0.011
N-Propylbenzene	264	NE	0.096 J	<0.014	<0.014	<0.017	<0.017	<0.016	<0.019	<0.017	<0.015
p-Isopropyltolene	162	NE	0.078 J	<0.015	<0.015	<0.018	<0.018	<0.017	<0.021	<0.018	<0.016
sec-Butylbenzene	145	NE	0.11	<0.012	<0.013	<0.015	<0.015	<0.014	<0.017	<0.015	<0.014
Tetrachloroethene	153	NE	0.66	1.1	3.1	0.056 J	<0.016	1.9	<0.019	<0.017	<0.015
Toluene	818	NE	0.027 J	0.06	<0.0095	<0.011	<0.011	0.064	<0.013	<0.011	<0.01
trans-1,2-Dichloroethene	976	NE	<0.028	<0.02	<0.021	<0.024	<0.024	<0.024	<0.028	<0.025	<0.022
Trichloroethene	8.81	NE	<0.02	<0.015	0.039 J	<0.018	<0.018	0.18	<0.021	<0.019	<0.016
Vinyl Chloride	2.03	NE	<0.011	<0.0084	0.027	<0.01	<0.01	<0.0098	<0.012	<0.01	<0.0091
Total Xylenes	258	NE	0.15	0.053	<0.0057	0.052	<0.0066	<0.0064	<0.0076	<0.0068	<0.006
PCBs											
Aroclor 1242	0.744	NE	**1,600**	**9**	**82**	**1**	**280**	**2,300**	0.048	0.014 J	0.025
Aroclor 1248	0.744	NE	<75	<0.67	<3.2	<0.16	<7.1	<67	<0.0076	<0.0065	<0.0068
Aroclor 1254	0.744	NE	<41	<0.37	<1.8	<0.086	<3.9	<37	<0.0041	<0.0036	<0.0037
Total Detected PCBs	NE	50	1,600	9	82	1	280	2,300	0.048	0.014	0.025

Footnotes on Page 10.

Table 4-1
Supplemental Building Interior Soil Analytical Results

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Boring ID	Industrial	TSCA	B-184			B-185	B-186	B-187			B-188
Sample Date	Direct	Disposal	1/3/14	1/3/14	1/3/14	1/3/14	1/3/14	1/3/14	1/3/14	1/3/14	1/2/14
Sample Depth (feet bls)	Contact RCL	Limit	2-4	14-16	18.5-20.5	1.5-3.5	2-4	1.3-3.3	8-10	12-14	2-4
VOCs											
1,2,3-Trichlorobenzene	151	NE	<0.037	<0.033	<0.031	<0.033	<0.042	<0.037	<0.032	<0.032	<0.039
1,2,4-Trichlorobenzene	98.7	NE	<0.04	<0.035	<0.033	<0.036	<0.045	<0.04	<0.035	<0.034	<0.042
1,2,4-Trimethylbenzene	219	NE	<0.022	<0.02	<0.019	<0.02	<0.025	<0.022	<0.019	<0.019	<0.023
1,2-Dichlorobenzene	376	NE	<0.022	<0.019	<0.018	<0.02	<0.024	<0.022	<0.019	<0.019	<0.023
1,3,5-Trimethylbenzene	182	NE	<0.022	<0.019	<0.018	<0.02	<0.024	<0.022	<0.019	<0.019	<0.023
1,3-Dichlorobenzene	297	NE	<0.027	<0.024	<0.023	<0.025	<0.031	<0.027	<0.023	<0.023	<0.028
1,4-Dichlorobenzene	17.5	NE	<0.018	<0.016	<0.015	<0.017	<0.021	<0.018	<0.016	<0.016	<0.019
cis-1,2-Dichloroethene	2,040	NE	<0.013	<0.012	<0.011	<0.012	<0.015	<0.013	<0.011	<0.011	<0.014
Ethylbenzene	37	NE	<0.013	<0.012	<0.011	<0.012	<0.015	<0.013	<0.012	<0.011	<0.014
Isopropylbenzene	268	NE	<0.027	<0.024	<0.022	<0.024	<0.03	<0.027	<0.023	<0.023	<0.028
Naphthalene	26	NE	<0.052	<0.046	<0.044	<0.047	<0.059	<0.052	<0.045	<0.045	<0.055
N-Butylbenzene	108	NE	<0.014	<0.012	<0.011	<0.012	<0.015	<0.014	<0.012	<0.012	<0.014
N-Propylbenzene	264	NE	<0.019	<0.016	<0.015	<0.017	<0.021	<0.018	<0.016	<0.016	<0.019
p-Isopropyltolene	162	NE	<0.02	<0.017	<0.016	<0.018	<0.022	<0.02	<0.017	<0.017	<0.02
sec-Butylbenzene	145	NE	<0.016	<0.014	<0.014	<0.015	<0.018	<0.016	<0.014	<0.014	<0.017
Tetrachloroethene	153	NE	<0.018	<0.016	<0.015	<0.016	<0.02	<0.018	<0.015	<0.015	0.15
Toluene	818	NE	<0.012	<0.011	<0.01	<0.011	<0.014	<0.012	<0.01	<0.01	<0.013
trans-1,2-Dichloroethene	976	NE	<0.026	<0.023	<0.022	<0.024	<0.03	<0.026	<0.023	<0.023	<0.028
Trichloroethene	8.81	NE	<0.02	<0.017	<0.016	<0.018	<0.022	<0.02	<0.017	<0.017	<0.021
Vinyl Chloride	2.03	NE	<0.011	<0.0098	<0.0092	<0.0099	<0.012	<0.011	<0.0095	<0.0094	<0.012
Total Xylenes	258	NE	<0.0072	<0.0064	<0.006	<0.0065	<0.0081	<0.0072	<0.0062	<0.0062	<0.0076
PCBs											
Aroclor 1242	0.744	NE	0.021	0.0057 J	0.024	0.053	0.57	0.012 J	0.012 J	0.15	**1.4**
Aroclor 1248	0.744	NE	<0.0076	<0.0068	<0.0069	<0.0075	<0.016	<0.0071	<0.0067	<0.0068	<0.07
Aroclor 1254	0.744	NE	<0.0042	<0.0037	<0.0038	<0.0041	<0.0085	<0.0039	<0.0037	<0.0037	<0.038
Total Detected PCBs	NE	50	0.021	0.0057	0.024	0.053	0.57	0.012	0.012	0.15	1.4

Footnotes on Page 10.

Table 4-1
Supplemental Building Interior Soil Analytical Results

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Boring ID	Industrial	TSCA	B-188 (continued)		B-189			B-190			B-191
Sample Date	Direct	Disposal	1/2/14	1/2/14	1/15/14	1/15/14	1/15/14	1/15/14	1/15/14	1/15/14	1/4/14
Sample Depth (feet bls)	Contact RCL	Limit	9-11	13-15	2-4	8-10	16-18	0-2	10-12	16-18	2-4
VOCs											
1,2,3-Trichlorobenzene	151	NE	<0.03	<0.034	<0.045	<0.05	<0.047	<0.62	<0.057	<0.05	<0.036
1,2,4-Trichlorobenzene	98.7	NE	<0.033	<0.037	<0.049	<0.054	<0.051	<0.67	<0.061	<0.054	<0.038
1,2,4-Trimethylbenzene	219	NE	<0.018	<0.02	<0.027	<0.03	<0.028	14	<0.034	<0.03	<0.021
1,2-Dichlorobenzene	376	NE	<0.018	<0.02	<0.026	<0.029	<0.028	<0.36	<0.033	<0.029	<0.021
1,3,5-Trimethylbenzene	182	NE	<0.018	<0.02	<0.026	<0.03	<0.028	5	<0.033	<0.029	<0.021
1,3-Dichlorobenzene	297	NE	<0.022	<0.025	<0.033	<0.037	<0.035	<0.46	<0.042	<0.036	<0.026
1,4-Dichlorobenzene	17.5	NE	<0.015	<0.017	<0.022	<0.025	<0.023	<0.31	<0.028	<0.025	<0.018
cis-1,2-Dichloroethene	2,040	NE	<0.011	<0.012	<0.016	<0.018	<0.017	120	<0.02	<0.017	<0.012
Ethylbenzene	37	NE	<0.011	<0.012	<0.016	<0.018	<0.017	0.6	<0.02	<0.018	<0.013
Isopropylbenzene	268	NE	<0.022	<0.024	<0.032	<0.036	<0.034	1.4 J	<0.041	<0.036	<0.025
Naphthalene	26	NE	<0.043	<0.048	<0.063	<0.071	<0.067	2.1 J	<0.08	<0.07	<0.05
N-Butylbenzene	108	NE	<0.011	<0.012	<0.017	<0.019	<0.017	4.6	<0.021	<0.018	<0.013
N-Propylbenzene	264	NE	<0.015	<0.017	<0.022	<0.025	<0.024	3.9	<0.028	<0.025	<0.018
p-Isopropyltolene	162	NE	<0.016	<0.018	<0.024	<0.027	<0.025	2.8 J	<0.03	<0.026	<0.019
sec-Butylbenzene	145	NE	<0.013	<0.015	<0.02	<0.022	<0.021	2.6	<0.025	<0.022	<0.016
Tetrachloroethene	153	NE	<0.015	<0.016	0.35	<0.024	<0.023	**2,400**	1.4	0.4	<0.017
Toluene	818	NE	<0.01	<0.011	<0.015	<0.017	<0.016	<0.2	<0.019	<0.016	<0.012
trans-1,2-Dichloroethene	976	NE	<0.022	<0.024	<0.032	<0.036	<0.034	4.7	<0.04	<0.035	<0.025
Trichloroethene	8.81	NE	<0.016	<0.018	<0.024	<0.027	<0.025	**150**	0.041 J	<0.026	<0.019
Vinyl Chloride	2.03	NE	<0.0091	<0.01	<0.013	<0.015	<0.014	<0.19	<0.017	<0.015	<0.011
Total Xylenes	258	NE	<0.006	<0.0066	<0.0088	<0.0098	<0.0092	2.8	<0.011	<0.0097	<0.0069
PCBs											
Aroclor 1242	0.744	NE	<0.0057	<0.0058	<0.0069	0.0088 J	0.014 J	0.3	<0.0055	<0.0059	**6.1**
Aroclor 1248	0.744	NE	<0.0069	<0.0069	<0.0083	<0.0068	<0.0069	<0.0077	<0.0066	<0.007	<0.36
Aroclor 1254	0.744	NE	<0.0038	<0.0038	<0.0045	<0.0037	<0.0038	<0.0042	<0.0036	<0.0039	<0.2
Total Detected PCBs	NE	50	ND	ND	ND	0.0088	0.014	0.3	ND	ND	6.1

Footnotes on Page 10.

Table 4-1
Supplemental Building Interior Soil Analytical Results

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Boring ID	Industrial	TSCA	B-191 (continued)		B-192			B-193			B-194
Sample Date	Direct	Disposal	1/4/14	1/4/14	1/15/14	1/15/14	1/15/14	2/27/14	2/27/14	2/27/14	2/27/14
Sample Depth (feet bls)	Contact RCL	Limit	13.7-15.7	17.3-19.3	0-2	10-12	16-18	0-2	12-14	18-20	2-4
VOCs											
1,2,3-Trichlorobenzene	151	NE	<0.029	<0.032	<0.055	<0.063	<0.055	<0.039 *	<0.032 *	<0.03 *	<0.038 *
1,2,4-Trichlorobenzene	98.7	NE	<0.032	<0.034	<0.059	<0.068	<0.06	<0.042 *	<0.035 *	<0.032 *	<0.041 *
1,2,4-Trimethylbenzene	219	NE	<0.018	<0.019	<0.033	<0.038	<0.033	<0.023	<0.019	<0.018	<0.023
1,2-Dichlorobenzene	376	NE	<0.017	<0.019	<0.032	<0.037	<0.032	<0.023	<0.019	<0.018	<0.022
1,3,5-Trimethylbenzene	182	NE	<0.017	<0.019	<0.032	<0.037	<0.032	<0.023	<0.019	<0.018	<0.022
1,3-Dichlorobenzene	297	NE	<0.021	<0.023	<0.04	<0.046	<0.04	<0.028	<0.024	<0.022	<0.028
1,4-Dichlorobenzene	17.5	NE	<0.015	<0.016	<0.027	<0.031	<0.027	<0.019	<0.016	<0.015	<0.019
cis-1,2-Dichloroethene	2,040	NE	<0.01	<0.011	<0.019	<0.022	<0.019	<0.014	<0.011	<0.011	<0.013
Ethylbenzene	37	NE	<0.011	<0.011	<0.02	<0.023	<0.02	<0.014	<0.012	<0.011	<0.014
Isopropylbenzene	268	NE	<0.021	<0.023	<0.039	<0.045	<0.04	<0.028	<0.023	<0.022	<0.027
Naphthalene	26	NE	<0.041	<0.045	<0.077	<0.088	<0.078	<0.054 *	<0.045 *	<0.042 *	<0.054 *
N-Butylbenzene	108	NE	<0.011	<0.012	<0.02	<0.023	<0.02	<0.014	<0.012	<0.011	<0.014
N-Propylbenzene	264	NE	<0.015	<0.016	<0.027	<0.031	<0.028	<0.019	<0.016	<0.015	<0.019
p-Isopropyltolene	162	NE	<0.015	<0.017	<0.029	<0.033	<0.029	<0.02	<0.017	<0.016	<0.02
sec-Butylbenzene	145	NE	<0.013	<0.014	<0.024	<0.028	<0.024	<0.017	<0.014	<0.013	<0.017
Tetrachloroethene	153	NE	<0.014	<0.015	0.22	0.2	1.2	0.15	0.071 J	<0.014	0.055 J
Toluene	818	NE	0.055	<0.01	<0.018	<0.021	<0.018	<0.013	<0.011	<0.0099	0.03
trans-1,2-Dichloroethene	976	NE	<0.021	<0.023	<0.039	<0.045	<0.039	<0.028	<0.023	<0.021	<0.027
Trichloroethene	8.81	NE	<0.016	<0.017	<0.029	<0.033	<0.029	<0.02	<0.017	<0.016	<0.02
Vinyl Chloride	2.03	NE	<0.0087	<0.0094	<0.016	<0.019	<0.016	<0.011 *	<0.0095 *	<0.0089 *	<0.011 *
Total Xylenes	258	NE	<0.0057	<0.0062	<0.011	<0.012	<0.011	<0.0075	<0.0063	<0.0059	<0.0075
PCBs											
Aroclor 1242	0.744	NE	0.0093 J	0.0075 J	**35**	0.015 J	<0.0058	0.017 J	<0.029	<0.0058	<0.0066
Aroclor 1248	0.744	NE	<0.0067	<0.0069	<1.6	<0.0069	<0.0069	<0.0077	0.75	<0.0069	<0.0079
Aroclor 1254	0.744	NE	<0.0037	<0.0038	<0.87	<0.0038	<0.0038	<0.0042	<0.019	<0.0038	<0.0043
Total Detected PCBs	NE	50	0.0093	0.0075	35	0.015	ND	0.017	0.75	ND	ND

Footnotes on Page 10.

Table 4-1
Supplemental Building Interior Soil Analytical Results

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Boring ID	Industrial	TSCA	B-194 (continued)			B-195	
Sample Date	Direct	Disposal	2/27/14	2/27/14	2/27/14	2/27/14	2/27/14
Sample Depth (feet bls)	Contact RCL	Limit	8-10	20-21	0-2	10-12	18-20
VOCs							
1,2,3-Trichlorobenzene	151	NE	<0.032 *	<0.027 *	<0.035 *	<0.033 *	<0.028 *
1,2,4-Trichlorobenzene	98.7	NE	<0.034 *	<0.029 *	<0.038 *	<0.036 *	<0.031 *
1,2,4-Trimethylbenzene	219	NE	<0.019	<0.016	<0.021	<0.02	<0.017
1,2-Dichlorobenzene	376	NE	<0.019	<0.016	<0.021	<0.019	<0.017
1,3,5-Trimethylbenzene	182	NE	<0.019	<0.016	<0.021	<0.019	<0.017
1,3-Dichlorobenzene	297	NE	<0.023	<0.02	<0.026	<0.024	<0.021
1,4-Dichlorobenzene	17.5	NE	<0.016	<0.013	<0.018	<0.016	<0.014
cis-1,2-Dichloroethene	2,040	NE	<0.011	<0.0094	<0.012	<0.012	<0.01
Ethylbenzene	37	NE	<0.011	<0.0096	<0.013	<0.012	<0.01
Isopropylbenzene	268	NE	<0.023	<0.019	<0.025	<0.024	<0.02
Naphthalene	26	NE	<0.045 *	<0.038 *	<0.05 *	<0.047 *	<0.04 *
N-Butylbenzene	108	NE	<0.012	<0.0099	<0.013	<0.012	<0.01
N-Propylbenzene	264	NE	<0.016	<0.013	<0.018	<0.017	<0.014
p-Isopropyltolene	162	NE	<0.017	<0.014	<0.019	<0.017	<0.015
sec-Butylbenzene	145	NE	<0.014	<0.012	<0.016	<0.015	<0.013
Tetrachloroethene	153	NE	<0.015	<0.013	0.11	<0.016	<0.014
Toluene	818	NE	<0.01	<0.0088	<0.012	<0.011	<0.0093
trans-1,2-Dichloroethene	976	NE	<0.023	<0.019	<0.025	<0.024	<0.02
Trichloroethene	8.81	NE	<0.017	<0.014	<0.019	<0.018	<0.015
Vinyl Chloride	2.03	NE	<0.0094 *	<0.0080 *	<0.011 *	<0.0098 *	<0.0084 *
Total Xylenes	258	NE	<0.0062	<0.0052	<0.0069	<0.0065	<0.0056
PCBs							
Aroclor 1242	0.744	NE	0.18	<0.0057	<0.0066	<0.0055	<0.0058
Aroclor 1248	0.744	NE	<0.0067	<0.0068	0.045	<0.0066	<0.0070
Aroclor 1254	0.744	NE	<0.0037	<0.0037	<0.0043	<0.0036	<0.0038
Total Detected PCBs	NE	50	0.18	ND	0.045	ND	ND

Footnotes on Page 10.

Table 4-1
Supplemental Building Interior Soil Analytical Results

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

General Note:
Only detected constituents are noted. Constituent concentrations are reported as milligrams per kilogram (mg/kg).

Acronyms and Abbreviations:
100 = exceeds WDNR's industrial direct contact RCL
100 = exceeds TSCA disposal limit
* = laboratory Control Spike or Laboratory Control Spike Duplicate exceeds the control limits
< = constituent not detected above noted laboratory detection limit
bls = below land surface
J = constituent concentration is an approximate value
ND = total PCBs less than the laboratory detection limit
NE = criteria not established
PCBs = polychlorinated biphenyls
RCL = residual contaminant level
TSCA = Toxic Substance Control Act
USEPA = United States Environmental Protection Agency
VOCs = volatile organic compounds
WDNR = Wisconsin Department of Natural Resources

Table 4-2
Rain Garden Excavation Soil Analytical Results

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Sample Location	Ind. Direct	TSCA	RG-1	RG-2	RG-3	RG-4		RG-5	RG-6	RG-7
Sample Date	Contact RCL	Disposal Limit	4/9/14	4/9/14	4/9/14	4/9/14	4/9/14 (DUP)	4/9/14	4/9/14	4/9/14
PCBs										
Aroclor 1016	21.2	NE	<0.82	<0.0070	<0.041	<0.0073	<0.0073	<0.14	<0.0075	<0.0076
Aroclor 1221	0.744	NE	<1	<0.0087	<0.051	<0.0090	<0.0091	<0.18	<0.0094	<0.0094
Aroclor 1232	0.744	NE	<1	<0.0086	<0.051	<0.0089	<0.0090	<0.18	<0.0093	<0.0093
Aroclor 1242	0.744	NE	<0.76	<0.0065	<0.038	<0.0067	<0.0068	<0.13	<0.0070	<0.0070
Aroclor 1248	0.744	NE	<0.91	<0.0078	<0.046	<0.0081	<0.0081	<0.16	<0.0084	<0.0084
Aroclor 1254	0.744	NE	**12**	0.019 J	0.35	0.08	0.065	**2.2**	0.1	0.048
Aroclor 1260	0.744	NE	<1.1	<0.0097	<0.057	<0.01	<0.01	<0.2	<0.01	<0.011
Total Detected PCBs	NE	50	12	0.019	0.35	0.08	0.065	2.2	0.1	0.048

General Note:
Concentrations presented in milligrams per kilogram (mg/kg).

Acronyms and Abbreviations:
* = soils at RG-35 were evaluated/addressed during the Parking Lot Excavation
100 = exceeds WDNR's industrial direct contact RCLs
100 = exceeds TSCA disposal limit
< = constituent not detected above noted laboratory detection limit
DUP = duplicate
Ind. = industrial
J = constituent concentration is an approximate value
NE = criteria not established
PCBs = polychlorinated biphenyls
RCL = residual contaminant level
TSCA = Toxic Substance Control Act
WDNR = Wisconsin Department of Natural Resources

Table 4-2
Rain Garden Excavation Soil Analytical Results

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Sample Location	Ind. Direct	TSCA	RG-8	RG-9	RG-10	RG-11	RG-12	RG-13	RG-14	RG-15
Sample Date	Contact RCL	Disposal Limit	4/9/14	4/9/14	4/9/14	4/9/14	4/9/14	4/9/14	4/9/14	4/9/14
PCBs										
Aroclor 1016	21.2	NE	<1.6	<0.0074	<0.0071	<0.15	<0.0077	<0.14	<0.0068	<0.0074
Aroclor 1221	0.744	NE	<2	<0.0092	<0.0088	<0.19	<0.0095	<0.17	<0.0085	<0.0092
Aroclor 1232	0.744	NE	<2	<0.0091	<0.0087	<0.18	<0.0095	<0.17	<0.0084	<0.0091
Aroclor 1242	0.744	NE	<1.5	<0.0069	<0.0066	<0.14	<0.0071	<0.13	<0.0063	<0.0069
Aroclor 1248	0.744	NE	<1.8	<0.0082	<0.0079	<0.17	<0.0085	<0.15	<0.0076	<0.0082
Aroclor 1254	0.744	NE	**31**	0.011 J	<0.0043	**0.91**	0.11	**5.3**	<0.0042	0.016 J
Aroclor 1260	0.744	NE	<2.3	<0.01	<0.0098	<0.21	<0.011	<0.19	<0.0095	<0.01
Total Detected PCBs	NE	50	31	0.011	0	0.91	0.11	5.3	0	0.016

General Note:
Concentrations presented in milligrams per kilogram (mg/kg).

Acronyms and Abbreviations:
* = soils at RG-35 were evaluated/addressed during the Parking Lot Excavation
100 = exceeds WDNR's industrial direct contact RCLs
100 = exceeds TSCA disposal limit
< = constituent not detected above noted laboratory detection limit
DUP = duplicate
Ind. = industrial
J = constituent concentration is an approximate value
NE = criteria not established
PCBs = polychlorinated biphenyls
RCL = residual contaminant level
TSCA = Toxic Substance Control Act
WDNR = Wisconsin Department of Natural Resources

Table 4-2
Rain Garden Excavation Soil Analytical Results

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Sample Location	Ind. Direct	TSCA	RG-16	RG-17	RG-18	RG-19	RG-20	RG-21	RG-22	RG-23
Sample Date	Contact RCL	Disposal Limit	4/9/14	4/9/14	4/9/14	4/9/14	4/9/14	4/9/14	4/9/14	4/9/14
PCBs										
Aroclor 1016	21.2	NE	<0.19	<0.035	<4.2	<0.16	<0.17	<0.0082	<0.0074	<0.83
Aroclor 1221	0.744	NE	<0.24	<0.044	<5.2	<0.2	<0.22	<0.01	<0.0092	<1
Aroclor 1232	0.744	NE	<0.24	<0.044	<5.2	<0.19	<0.21	<0.01	<0.0092	<1
Aroclor 1242	0.744	NE	<0.18	<0.033	<3.9	<0.15	<0.16	<0.0076	<0.0069	<0.77
Aroclor 1248	0.744	NE	<0.21	<0.04	<4.7	<0.18	<0.19	<0.0092	<0.0083	<0.92
Aroclor 1254	0.744	NE	**11**	<0.022	**85**	**4.3**	**0.88**	0.035	0.13	**20**
Aroclor 1260	0.744	NE	<0.26	<0.049	<5.8	<0.22	<0.24	<0.011	<0.01	<1.2
Total Detected PCBs	NE	50	11	0	85	4.3	0.88	0.035	0.13	20

General Note:
Concentrations presented in milligrams per kilogram (mg/kg).

Acronyms and Abbreviations:
* = soils at RG-35 were evaluated/addressed during the Parking Lot Excavation
100 = exceeds WDNR's industrial direct contact RCLs
100 = exceeds TSCA disposal limit
< = constituent not detected above noted laboratory detection limit
DUP = duplicate
Ind. = industrial
J = constituent concentration is an approximate value
NE = criteria not established
PCBs = polychlorinated biphenyls
RCL = residual contaminant level
TSCA = Toxic Substance Control Act
WDNR = Wisconsin Department of Natural Resources

Table 4-2
Rain Garden Excavation Soil Analytical Results

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Sample Location	Ind. Direct	TSCA	RG-24	RG-25		RG-26	RG-27	RG-28	RG-29	RG-30
Sample Date	Contact RCL	Disposal Limit	4/9/14	5/6/14	5/6/14 (DUP)	5/6/14	5/6/14	5/6/14	5/6/14	5/6/14
PCBs										
Aroclor 1016	21.2	NE	<0.0075	<17	<0.75	<0.038	<0.0076	<0.04	<0.0074	<0.085
Aroclor 1221	0.744	NE	<0.0093	<21	<0.93	<0.047	<0.0095	<0.05	<0.0092	<0.11
Aroclor 1232	0.744	NE	<0.0092	<20	<0.92	<0.046	<0.0094	<0.049	<0.0091	<0.1
Aroclor 1242	0.744	NE	<0.0070	<15	<0.69	<0.035	<0.0071	<0.037	<0.0069	<0.079
Aroclor 1248	0.744	NE	<0.0083	**420**	**27**	0.65	0.18	0.56	0.11	**1.7**
Aroclor 1254	0.744	NE	0.057	**130**	**16**	**0.89**	0.38	**0.78**	0.11	**1**
Aroclor 1260	0.744	NE	<0.01	<23	<1	<0.052	<0.011	<0.055	<0.01	<0.12
Total Detected PCBs	NE	50	0.057	550	43	1.54	0.56	1.34	0.22	2.7

General Note:
Concentrations presented in milligrams per kilogram (mg/kg).

Acronyms and Abbreviations:
* = soils at RG-35 were evaluated/addressed during the Parking Lot Excavation
100 = exceeds WDNR's industrial direct contact RCLs
100 = exceeds TSCA disposal limit
< = constituent not detected above noted laboratory detection limit
DUP = duplicate
Ind. = industrial
J = constituent concentration is an approximate value
NE = criteria not established
PCBs = polychlorinated biphenyls
RCL = residual contaminant level
TSCA = Toxic Substance Control Act
WDNR = Wisconsin Department of Natural Resources

Table 4-2
Rain Garden Excavation Soil Analytical Results

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Sample Location	Ind. Direct	TSCA	RG-31	RG-32	RG-33	RG-34		RG-35*
Sample Date	Contact RCL	Disposal Limit	5/6/14	5/6/14	5/6/14	5/22/14	5/22/14 (DUP)	5/22/14
PCBs								
Aroclor 1016	21.2	NE	<0.041	<0.41	<0.0068	<0.037	<0.036	<21
Aroclor 1221	0.744	NE	<0.052	<0.51	<0.0085	<0.046	<0.045	<27
Aroclor 1232	0.744	NE	<0.051	<0.5	<0.0084	<0.046	<0.044	<26
Aroclor 1242	0.744	NE	<0.039	<0.38	<0.0063	<0.035	<0.033	<20
Aroclor 1248	0.744	NE	**0.82**	<0.45	<0.0076	**0.85**	0.6	**600**
Aroclor 1254	0.744	NE	0.62	**11**	0.016 J	0.44	0.46	**420**
Aroclor 1260	0.744	NE	<0.058	<0.57	<0.0095	<0.052	<0.05	<30
Total Detected PCBs	NE	50	1.44	11	0.016	1.29	1.06	1,020

General Note:
Concentrations presented in milligrams per kilogram (mg/kg).

Acronyms and Abbreviations:
* = soils at RG-35 were evaluated/addressed during the Parking Lot Excavation
100 = exceeds WDNR's industrial direct contact RCLs
100 = exceeds TSCA disposal limit
< = constituent not detected above noted laboratory detection limit
DUP = duplicate
Ind. = industrial
J = constituent concentration is an approximate value
NE = criteria not established
PCBs = polychlorinated biphenyls
RCL = residual contaminant level
TSCA = Toxic Substance Control Act
WDNR = Wisconsin Department of Natural Resources

Table 4-3
Parking Lot Excavation Soil Analytical Results

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Sample Location	Ind. Direct	TSCA	RG-36	RG-37	RG-38	RG-39	
Sample Date	Contact RCL	Disposal Limit	8/12/14	8/12/14	8/12/14	8/12/14	8/12/14 (DUP)
PCBs							
Aroclor 1016	21.2	NE	<0.018	0.7	0.080 J	1.3	2.5
Aroclor 1221	0.744	NE	<0.0099	<0.0090	<0.0089	<0.0092	<0.0095
Aroclor 1232	0.744	NE	<0.0068	<0.0061	<0.0061	<0.0063	<0.0065
Aroclor 1242	0.744	NE	<0.011	<0.0096	<0.0095	<0.0099	<0.010
Aroclor 1248	0.744	NE	<0.013	<0.012	<0.011	<0.012	<0.012
Aroclor 1254	0.744	NE	0.026 J	**1.1**	0.24	**4.4**	**3.7**
Aroclor 1260	0.744	NE	<0.0058	<0.0053	<0.0052	<0.0054	<0.0056
Total Detected PCBs	NE	50	0.026	1.8	0.32	5.7	6.2

General Note:
Concentrations presented in milligrams per kilogram (mg/kg).

Acronyms and Abbreviations:
100 = exceeds WDNR industrial direct contact RCLs
100 = exceeds TSCA disposal limit
< = constituent not detected above noted laboratory detection limit
DUP = duplicate
Ind. = industrial
J = constituent concentration is an approximate value
NE = criteria not established
PCBs = polychlorinated biphenyls
RCL = residual contaminant level
TSCA = Toxic Substance Control Act
WDNR = Wisconsin Department of Natural Resources

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MW-1									MW-2S						
Sample Interval (feet bls)	Preventive	Enforcement	14-24	14-24	14-24	14-24	14-24	14-24	14-24	14-24	14-24	19-29	19-29	19-29	19-29	19-29	19-29	19-29
Sample Date	Action Limit	Standard	04/08/10	03/29/11	04/11/12	01/15/13	04/21/13	07/18/13	10/09/13	04/22/14	10/23/14	04/08/10	03/30/11	04/11/12	01/14/13	04/20/13	07/18/13	10/10/13
VOCs																		
1,1,1,2-Tetrachloroethane	7	70	<0.25	<0.25	<0.31	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.31	<0.25	<0.25	<0.25	<0.25
1,1,2-Trichloroethane	0.5	5	<0.25	<0.25	<0.3	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.25	<0.25	<0.3	<0.28	<0.28	<0.28	<0.28
1,1-Dichloroethene	0.7	7	***1.1***	***0.95***	***0.94 J***	***0.84 J***	<0.31	<0.31	0.62 J	<0.31	<0.31	<0.5	<0.5	<0.29	<0.31	<0.31	<0.31	<0.31
1,2,4-Trimethylbenzene	96	480	<0.2	<0.2	<0.22	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.2	<0.2	<0.22	<0.14	<0.14	<0.14	<0.14
1,2-Dibromoethane	0.005	0.05	<0.2	<0.2	<0.45	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.2	<0.2	<0.45	<0.36	<0.36	<0.36	<0.36
1,2-Dichlorobenzene	60	600	<0.2	<0.2	<0.21	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.2	<0.2	<0.21	<0.27	<0.27	<0.27	<0.27
1,2-Dichloropropane	0.5	5	<0.5	<0.5	<0.36	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.5	<0.5	<0.36	<0.2	<0.2	<0.2	<0.2
1,3,5-Trimethylbenzene	96	480	<0.2	<0.2	<0.23	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.2	<0.2	<0.23	<0.18	<0.18	<0.18	<0.18
Benzene	0.5	5	<0.2	<0.2	<0.12	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.2	<0.2	<0.12	<0.074	<0.074	<0.074	<0.074
Bromoform	0.44	4.4	<0.2	<0.2	<0.45	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.2	<0.2	<0.45	<0.28	<0.28	<0.28	<0.28
Bromomethane	1	10	<0.5	<0.5	<0.49	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.5	<0.5	<0.49	<0.31	<0.31	<0.31	<0.31
Carbon tetrachloride	0.5	5	<0.8	<0.8	<0.28	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.8	<0.8	<0.28	<0.26	<0.26	<0.26	<0.26
Chloroform	0.6	6	<0.2	<0.2	<0.25	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.2	<0.2	<0.25	<0.2	<0.2	<0.2	<0.2
Chloromethane	3	30	<0.3	<0.3	<0.24	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.3	<0.3	<0.24	<0.18	<0.18	<0.18	<0.18
cis-1,2-Dichloroethene	7	70	***51***	***58***	***38***	***41***	***23***	***25***	***27***	***25***	***22***	<0.5	<0.5	<0.22	<0.12	<0.12	<0.12	<0.12
Dichlorodifluoromethane	200	1,000	<0.5	<0.5	<0.26	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.5	<0.5	<0.26	<0.2	<0.2	<0.2	<0.2
Ethylbenzene	140	700	<0.5	<0.5	<0.14	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.5	<0.5	<0.14	<0.13	<0.13	<0.13	<0.13
Isopropylbenzene	NE	NE	<0.2	<0.2	<0.21	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.2	<0.2	<0.21	<0.14	<0.14	<0.14	<0.14
Methyl tert-butyl ether	12	60	<0.5	<0.5	<0.28	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.5	<0.5	<0.28	<0.24	<0.24	<0.24	<0.24
Methylene Chloride	0.5	5	<1	<1	***8.5***	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<1	<1	***8.6***	<0.68	<0.68	<0.68	<0.68
Naphthalene	10	100	<0.25	<0.25	<0.24	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.25	<0.25	<0.24	<0.16	<0.16	<0.16	<0.16
n-Butylbenzene	NE	NE	<0.2	<0.2	<0.21	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.2	<0.2	<0.21	<0.13	<0.13	<0.13	<0.13
N-Propylbenzene	NE	NE	<0.5	<0.5	<0.19	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.5	<0.5	<0.19	<0.13	<0.13	<0.13	<0.13
p-Isopropyltoluene	NE	NE	<0.2	<0.2	<0.24	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.2	<0.2	<0.24	<0.17	<0.17	<0.17	<0.17
sec-Butylbenzene	NE	NE	<0.25	<0.25	<0.19	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.25	<0.25	<0.19	<0.15	<0.15	<0.15	<0.15
Styrene	10	100	<0.5	<0.5	<0.26	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	<0.5	<0.5	<0.26	<0.1	<0.1	<0.1	<0.1
tert-Butylbenzene	NE	NE	<0.2	<0.2	<0.24	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.2	<0.2	<0.24	<0.14	<0.14	<0.14	<0.14
Tetrachloroethene	0.5	5	***32***	***9***	***23***	***22***	***10***	***11***	***18***	***19***	***16***	***1.6***	***1.3***	***1.2***	***1.3***	***1.3***	***0.81 J***	***1.1***
Toluene	160	800	<0.5	<0.5	<0.15	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.5	<0.5	<0.15	<0.11	<0.11	<0.11	<0.11
trans-1,2-Dichloroethene	20	100	1	1	0.77 J	0.78 J	<0.25	<0.25	<0.25	<0.25	<0.25	<0.5	<0.5	<0.27	<0.25	<0.25	<0.25	<0.25
Trichloroethene	0.5	5	***33***	***20***	***24***	***25***	***23***	***18***	***23***	***28***	***19***	<0.2	<0.2	<0.18	<0.19	<0.19	<0.19	<0.19
Vinyl chloride	0.02	0.2	***1.5***	***1.1***	***0.86***	***0.63***	<0.1	<0.1	<0.1	<0.10	<0.10	<0.2	<0.2	<0.13	<0.1	<0.1	<0.1	<0.1
Xylenes, Total	400	2,000	<0.5	<0.5	<0.3	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.5	<0.5	<0.3	<0.068	<0.068	<0.068	<0.068
PAHs																		
1-Methylnaphthalene	NE	NE	NA	NA	NA	<1.1	NA	NA	NA	NA	NA	NA	NA	NA	<1.1	NA	NA	NA
2-Methylnaphthalene	NE	NE	NA	NA	NA	<0.14	NA	NA	NA	NA	NA	NA	NA	NA	<0.14	NA	NA	NA
Naphthalene	10	100	NA	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	NA	NA
Total PCBs																		
Aroclor1016	0.003	0.03	NA	NA	NA	<0.17	NA	NA	NA	NA	NA	NA	NA	NA	<0.17	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	<0.091	NA	NA	NA	NA	NA	NA	NA	NA	<0.091	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	<0.13	NA	NA	NA	NA	NA	NA	NA	NA	<0.13	NA	NA	NA
Dissolved PCBs																		
Aroclor1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Footnotes on Page 2.

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MW-1									MW-2S						
Sample Interval (feet bls)	Preventive	Enforcement	14-24	14-24	14-24	14-24	14-24	14-24	14-24	14-24	14-24	19-29	19-29	19-29	19-29	19-29	19-29	19-29
Sample Date	Action Limit	Standard	04/08/10	03/29/11	04/11/12	01/15/13	04/21/13	07/18/13	10/09/13	04/22/14	10/23/14	04/08/10	03/30/11	04/11/12	01/14/13	04/20/13	07/18/13	10/10/13
Total Metals																		
Arsenic	1	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	400	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	10	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	1.5	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	60	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.20	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals																		
Arsenic	1	10	NA	NA	NA	0.73 J	NA	NA	NA	NA	NA	NA	NA	NA	0.51 J	NA	NA	NA
Barium	400	2,000	NA	NA	NA	230	NA	NA	NA	NA	NA	NA	NA	NA	41	NA	NA	NA
Cadmium	0.5	5	NA	NA	NA	0.18 J	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	NA	NA	NA
Chromium	10	100	NA	NA	NA	<0.64	NA	NA	NA	NA	NA	NA	NA	NA	2.6 J	NA	NA	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	NA	***320***	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	1.5	15	NA	NA	NA	0.27 J	NA	NA	NA	NA	NA	NA	NA	NA	<0.16	NA	NA	NA
Manganese	60	300	NA	NA	NA	***700***	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.2	2	NA	NA	NA	<0.071	NA	NA	NA	NA	NA	NA	NA	NA	<0.071	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	<0.25	NA	NA	NA	NA	NA	NA	NA	NA	4	NA	NA	NA
Silver	10	50	NA	NA	NA	<0.069	NA	NA	NA	NA	NA	NA	NA	NA	<0.069	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

General Notes:
All concentrations in microgram per liter (µg/L).
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.

Acronyms and Abbreviations:
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
* = data is suspect and not used in evaluation
B = compound was found in the blank and the sample
bls = below land surface
J = result is between the method detection limit and the limit of quantitation
NA = not analyzed
NE = not established
ND = not detected
PCBs = polychlorinated biphenyls
PAHs = polycyclic aromatic hydrocarbons
VOCs = volatile organic compounds

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MW-2S (continued)		MW-2D										MW-3S			
Sample Interval (feet bls)	Preventive	Enforcement	19-29	19-29	39-44	39-44	39-44	39-44	39-44	39-44	39-44	39-44	39-44	39-44	19-29	19-29	19-29	19-29
Sample Date	Action Limit	Standard	04/17/14	10/16/14	04/08/10	10/01/10	03/30/11	04/11/12	01/15/13	04/20/13	07/18/13	10/10/13	04/17/14	10/16/14	04/07/10	03/29/11	04/12/12	11/30/12
VOCs																		
1,1,1,2-Tetrachloroethane	7	70	<0.25	<0.25	<8	<0.25	<4	<0.31	<0.5	<0.5	<0.25	<0.25	<0.25	<0.50	<8	<6.3	<1.6	<1.3
1,1,2-Trichloroethane	0.5	5	<0.28	<0.28	<8	<0.25	<4	<0.3	<0.56	<0.56	<0.28	<0.28	<0.28	<0.56	<8	<6.3	<1.5	<1.4
1,1-Dichloroethene	0.7	7	<0.31	<0.31	<16	<0.5	<8	<0.29	<0.62	<0.62	<0.31	<0.31	<0.31	<0.62	<16	<13	<1.5	<1.6
1,2,4-Trimethylbenzene	96	480	<0.14	<0.14	<6.4	<0.2	<3.2	<0.22	<0.28	<0.28	<0.14	<0.14	<0.14	<0.28	<6.4	<5	<1.1	<0.7
1,2-Dibromoethane	0.005	0.05	<0.36	<0.36	<6.4	<0.2	<3.2	<0.45	<0.72	<0.72	<0.36	<0.36	<0.36	<0.72	NA	NA	<2.3	<1.8
1,2-Dichlorobenzene	60	600	<0.27	<0.27	<6.4	<0.2	<3.2	<0.21	<0.54	<0.54	<0.27	<0.27	<0.27	<0.54	<6.4	<5	<1.1	<1.4
1,2-Dichloropropane	0.5	5	<0.20	<0.20	<16	<0.5	<8	<0.36	<0.4	<0.4	<0.2	<0.2	<0.20	<0.40	<16	<13	<1.8	<1
1,3,5-Trimethylbenzene	96	480	<0.18	<0.18	<6.4	<0.2	<3.2	<0.23	<0.36	<0.36	<0.18	<0.18	<0.18	<0.36	<6.4	<5	<1.2	<0.9
Benzene	0.5	5	<0.074	<0.074	<6.4	<0.2	<3.2	<0.12	<0.15	<0.15	<0.074	<0.074	<0.074	<0.15	<6.4	<5	<0.6	***1.5 J***
Bromoform	0.44	4.4	<0.28	<0.28	<6.4	<0.2	<3.2	<0.45	<0.56	<0.56	<0.28	<0.28	<0.28	<0.56	<6.4	<5	<2.3	<1.4
Bromomethane	1	10	<0.31	<0.31	<16	<0.5	<8	<0.49	<0.62	<0.62	<0.31	<0.31	<0.31	<0.62	<16	<13	<2.5	<1.6
Carbon tetrachloride	0.5	5	<0.26	<0.26	<26	<0.8	<13	<0.28	<0.52	<0.52	<0.26	<0.26	<0.26	<0.52	<26	<20	<1.4	<1.3
Chloroform	0.6	6	<0.20	<0.20	<6.4	<0.2	<3.2	<0.25	<0.4	<0.4	<0.2	<0.2	<0.20	<0.40	<6.4	<5	***3.7 J***	***5***
Chloromethane	3	30	<0.18	<0.18	<9.6	<0.3	<4.8	<0.24	<0.36	<0.36	<0.18	<0.18	<0.18	<0.36	<9.6	<7.5	<1.2	<0.9
cis-1,2-Dichloroethene	7	70	<0.12	<0.12	<16	1	<8	<0.22	<0.24	<0.24	<0.12	<0.12	<0.12	<0.24	***83***	***37***	***89***	***98***
Dichlorodifluoromethane	200	1,000	<0.20	<0.20	<16	<0.5	<8	<0.26	<0.4	<0.4	<0.2	<0.2	<0.20	<0.40	<16	<13	<1.3	<1
Ethylbenzene	140	700	<0.13	<0.13	<16	<0.5	<8	<0.14	<0.26	<0.26	<0.13	<0.13	<0.13	<0.26	<16	<13	<0.7	<0.65
Isopropylbenzene	NE	NE	<0.14	<0.14	<6.4	<0.2	<3.2	<0.21	<0.28	<0.28	<0.14	<0.14	<0.14	<0.28	<6.4	<5	<1.1	<0.7
Methyl tert-butyl ether	12	60	<0.24	<0.24	<16	<0.5	<8	<0.28	<0.48	<0.48	<0.24	<0.24	<0.24	<0.48	<16	<13	<1.4	<1.2
Methylene Chloride	0.5	5	<0.68	<0.68	<32	<1	<16	***8.1***	<1.4	<1.4	<0.68	<0.68	<0.68	<1.4	<32	<25	<3.2	<3.4
Naphthalene	10	100	<0.16	<0.16	<8	<0.25	<4	<0.24	<0.32	<0.32	<0.16	<0.16	<0.16	<0.32	<8	<6.3	<1.2	<0.8
n-Butylbenzene	NE	NE	<0.13	<0.13	<6.4	<0.2	<3.2	<0.21	<0.26	<0.26	<0.13	<0.13	<0.13	<0.26	<6.4	<5	<1.1	<0.65
N-Propylbenzene	NE	NE	<0.13	<0.13	<16	<0.5	<8	<0.19	<0.26	<0.26	<0.13	<0.13	<0.13	<0.26	<16	<13	<0.95	<0.65
p-Isopropyltoluene	NE	NE	<0.17	<0.17	<6.4	<0.2	<3.2	<0.24	<0.34	<0.34	<0.17	<0.17	<0.17	<0.34	<6.4	<5	<1.2	<0.85
sec-Butylbenzene	NE	NE	<0.15	<0.15	<8	<0.25	<4	<0.19	<0.3	<0.3	<0.15	<0.15	<0.15	<0.30	<8	<6.3	<0.95	<0.75
Styrene	10	100	<0.10	<0.10	<16	<0.5	<8	<0.26	<0.2	<0.2	<0.1	<0.1	<0.10	<0.20	<16	<13	<1.3	<0.5
tert-Butylbenzene	NE	NE	<0.14	<0.14	<6.4	<0.2	<3.2	<0.24	<0.28	<0.28	<0.14	<0.14	<0.14	<0.28	<6.4	<5	<1.2	<0.7
Tetrachloroethene	0.5	5	***1.3***	***1***	***1,400***	***1,300***	***1,000***	***610***	***720***	***910***	***580***	***440***	***450***	***540***	***2,000***	***1,100***	***1,600***	***2,400***
Toluene	160	800	<0.11	<0.11	<16	<0.5	<8	<0.15	<0.22	<0.22	<0.11	<0.11	<0.11	<0.22	<16	<13	<0.75	<0.55
trans-1,2-Dichloroethene	20	100	<0.25	<0.25	<16	<0.5	<8	<0.27	<0.5	<0.5	<0.25	<0.25	<0.25	<0.50	<16	<13	5	6
Trichloroethene	0.5	5	<0.19	<0.19	***20***	***16***	***10***	***5.4***	***5.1***	***6.4***	***4.1***	***3***	***2.5***	***2.1***	***130***	***66***	***120***	***160***
Vinyl chloride	0.02	0.2	<0.10	<0.10	<6.4	<0.2	<3.2	<0.13	<0.2	<0.2	<0.1	<0.1	<0.10	<0.20	<6.4	<5	<0.65	<0.5
Xylenes, Total	400	2,000	<0.068	<0.068	<16	<0.5	<8	<0.3	<0.14	<0.14	<0.068	<0.068	<0.068	<0.14	<16	<13	<1.5	<0.34
PAHs																		
1-Methylnaphthalene	NE	NE	NA	NA	NA	NA	NA	NA	<1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NE	NE	NA	NA	NA	NA	NA	NA	<0.14	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	10	100	NA	NA	NA	NA	NA	NA	<0.32	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs																		
Aroclor1016	0.003	0.03	NA	NA	NA	NA	NA	NA	<0.18	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	NA	NA	NA	<0.096	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	NA	NA	NA	<0.14	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																		
Aroclor1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Footnotes on Page 4.

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MW-2S (continued)		MW-2D										MW-3S			
Sample Interval (feet bls)	Preventive	Enforcement	19-29	19-29	39-44	39-44	39-44	39-44	39-44	39-44	39-44	39-44	39-44	39-44	19-29	19-29	19-29	19-29
Sample Date	Action Limit	Standard	04/17/14	10/16/14	04/08/10	10/01/10	03/30/11	04/11/12	01/15/13	04/20/13	07/18/13	10/10/13	04/17/14	10/16/14	04/07/10	03/29/11	04/12/12	11/30/12
Total Metals																		
Arsenic	1	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.49 J
Barium	400	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	10	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.64
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	37 J
Lead	1.5	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	60	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34
Mercury	0.20	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals																		
Arsenic	1	10	NA	NA	NA	NA	NA	NA	0.30 J	NA	NA	NA	NA	NA	NA	NA	NA	0.45 J
Barium	400	2,000	NA	NA	NA	NA	NA	NA	71	NA	NA	NA	NA	NA	NA	NA	NA	88
Cadmium	0.5	5	NA	NA	NA	NA	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	<0.1
Chromium	10	100	NA	NA	NA	NA	NA	NA	3.0 J	NA	NA	NA	NA	NA	NA	NA	NA	<0.64
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	NA	NA	NA	NA	<37	NA	NA	NA	NA	NA	NA	NA	NA	<37
Lead	1.5	15	NA	NA	NA	NA	NA	NA	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	<0.16
Manganese	60	300	NA	NA	NA	NA	NA	NA	0.86 J	NA	NA	NA	NA	NA	NA	NA	NA	26
Mercury	0.2	2	NA	NA	NA	NA	NA	NA	<0.071	NA	NA	NA	NA	NA	NA	NA	NA	0.072 J
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	NA	NA	NA	5	NA	NA	NA	NA	NA	NA	NA	NA	0.74 J
Silver	10	50	NA	NA	NA	NA	NA	NA	<0.069	NA	NA	NA	NA	NA	NA	NA	NA	<0.069
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

General Notes:
All concentrations in microgram per liter (µg/L).
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.

Acronyms and Abbreviations:
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
* = data is suspect and not used in evaluation
B = compound was found in the blank and the sample
bls = below land surface
J = result is between the method detection limit and the limit of quantitation
NA = not analyzed
NE = not established
ND = not detected
PCBs = polychlorinated biphenyls
PAHs = polycyclic aromatic hydrocarbons
VOCs = volatile organic compounds

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MW-3S (continued)										MW-3D						
Sample Interval (feet bls)	Preventive	Enforcement	19-29	19-29	19-29	19-29	19-29	19-29	19-29	19-29	19-29	19-29	48-53	48-53	48-53	48-53	48-53	48-53	48-53
Sample Date	Action Limit	Standard	12/17/12	01/15/13	02/12/13	03/12/13	04/16/13	07/16/13	10/10/13	04/16/14	04/22/14	10/22/14	04/07/10	10/01/10	03/30/11	04/12/12	11/30/12	01/16/13	02/12/13
VOCs																			
1,1,1,2-Tetrachloroethane	7	70	NA	<0.25	<0.25	<0.25	<0.25	<0.5	<0.5	<1.3	NA	<0.25	<8	<0.25	<5	<0.31	<1.3	<0.25	<0.25
1,1,2-Trichloroethane	0.5	5	NA	<0.28	<0.28	<0.28	<0.28	<0.56	<0.56	<1.4	NA	<0.28	<8	<0.25	<5	<0.3	<1.4	<0.28	<0.28
1,1-Dichloroethene	0.7	7	NA	<0.31	<0.31	<0.31	<0.31	<0.62	<0.62	<1.6	NA	<0.31	<16	<0.5	<10	<0.29	<1.6	<0.31	<0.31
1,2,4-Trimethylbenzene	96	480	NA	<0.14	<0.14	<0.14	<0.14	<0.28	<0.28	<0.70	NA	<0.14	<6.4	<0.2	<4	<0.22	<0.7	<0.14	<0.14
1,2-Dibromoethane	0.005	0.05	NA	<0.36	<0.36	<0.36	<0.36	<0.72	<0.72	<1.8	NA	<0.36	NA	NA	NA	<0.45	<1.8	<0.36	<0.36
1,2-Dichlorobenzene	60	600	NA	<0.27	<0.27	<0.27	<0.27	<0.54	<0.54	<1.4	NA	<0.27	<6.4	<0.2	<4	<0.21	<1.4	<0.27	<0.27
1,2-Dichloropropane	0.5	5	NA	<0.2	<0.2	<0.2	<0.2	<0.4	<0.4	<1.0	NA	<0.20	<16	<0.5	<10	<0.36	<1	<0.2	<0.2
1,3,5-Trimethylbenzene	96	480	NA	<0.18	<0.18	<0.18	<0.18	<0.36	<0.36	<0.90	NA	<0.18	<6.4	<0.2	<4	<0.23	<0.9	<0.18	<0.18
Benzene	0.5	5	NA	0.42 J	***0.88***	***1***	***0.6***	***0.70 J***	***1***	<0.37	NA	***0.67***	<6.4	0.31	<4	0.39 J	<0.37	0.32 J	0.29 J
Bromoform	0.44	4.4	NA	<0.28	<0.28	<0.28	<0.28	<0.56	<0.56	<1.4	NA	<0.28	<6.4	<0.2	<4	<0.45	<1.4	<0.28	<0.28
Bromomethane	1	10	NA	<0.31	<0.31	<0.31	<0.31	<0.62	<0.62	<1.6	NA	<0.31	<16	<0.5	<10	<0.49	<1.6	<0.31	<0.31
Carbon tetrachloride	0.5	5	NA	<0.26	<0.26	<0.26	<0.26	<0.52	<0.52	<1.3	NA	<0.26	<26	<0.8	<16	<0.28	<1.3	<0.26	<0.26
Chloroform	0.6	6	NA	***1.6***	***3.0***	***4.1***	***2.7***	***2.8***	***3.7***	***3.4 J***	NA	***2.4***	<6.4	***0.78***	<4	***0.93 J***	<1	***0.89 J***	<0.2
Chloromethane	3	30	NA	<0.18	<0.18	<0.18	<0.18	<0.36	<0.36	<0.90	NA	<0.18	<9.6	<0.3	<6	<0.24	<0.9	<0.18	<0.18
cis-1,2-Dichloroethene	7	70	NA	<0.12	1.6	5	<0.12	***14***	***58***	<0.60	NA	***35***	***510***	***310***	***300***	***350***	***520***	***290***	***200***
Dichlorodifluoromethane	200	1,000	NA	<0.2	<0.2	<0.2	<0.2	<0.4	<0.4	<1.0	NA	<0.20	<16	<0.5	<10	<0.26	<1	<0.2	<0.2
Ethylbenzene	140	700	NA	0.36 J	<0.13	<0.13	<0.13	<0.26	<0.26	<0.65	NA	<0.13	<16	<0.5	<10	<0.14	<0.65	<0.13	<0.13
Isopropylbenzene	NE	NE	NA	<0.14	<0.14	<0.14	<0.14	<0.28	<0.28	<0.70	NA	<0.14	<6.4	<0.2	<4	<0.21	<0.7	<0.14	<0.14
Methyl tert-butyl ether	12	60	NA	<0.24	<0.24	<0.24	<0.24	<0.48	<0.48	<1.2	NA	<0.24	<16	<0.5	<10	<0.28	<1.2	<0.24	<0.24
Methylene Chloride	0.5	5	NA	<0.68	<0.68	<0.68	<0.68	<1.4	<1.4	<3.4	NA	<0.68	<32	<1	<20	<0.63	<3.4	<0.68	<0.68
Naphthalene	10	100	NA	<0.16	<0.16	<0.16	<0.16	<0.32	<0.32	<0.80	NA	<0.16	<8	<0.25	<5	<0.24	<0.8	<0.16	<0.16
n-Butylbenzene	NE	NE	NA	<0.13	<0.13	<0.13	<0.13	<0.26	<0.26	<0.65	NA	<0.13	<6.4	<0.2	<4	<0.21	<0.65	<0.13	<0.13
N-Propylbenzene	NE	NE	NA	<0.13	<0.13	<0.13	<0.13	<0.26	<0.26	<0.65	NA	<0.13	<16	<0.5	<10	<0.19	<0.65	<0.13	<0.13
p-Isopropyltoluene	NE	NE	NA	<0.17	<0.17	<0.17	<0.17	<0.34	<0.34	<0.85	NA	<0.17	<6.4	<0.2	<4	<0.24	<0.85	<0.17	<0.17
sec-Butylbenzene	NE	NE	NA	<0.15	<0.15	<0.15	<0.15	<0.3	<0.3	<0.75	NA	<0.15	<8	<0.25	<5	<0.19	<0.75	<0.15	<0.15
Styrene	10	100	NA	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.50	NA	<0.10	<16	<0.5	<10	<0.26	<0.5	<0.1	<0.1
tert-Butylbenzene	NE	NE	NA	<0.14	<0.14	<0.14	<0.14	<0.28	<0.28	<0.70	NA	<0.14	<6.4	<0.2	<4	<0.24	<0.7	<0.14	<0.14
Tetrachloroethene	0.5	5	NA	***88***	***600***	***750***	***20***	***840***	***1,000***	***630***	NA	***770***	***1,700***	***1,500***	***1,200***	***1,100***	***1,800***	***660***	***760***
Toluene	160	800	NA	0.38 J	<0.11	<0.11	<0.11	<0.22	<0.22	<0.55	NA	<0.11	<16	<0.5	<10	<0.15	<0.55	<0.11	<0.11
trans-1,2-Dichloroethene	20	100	NA	<0.25	<0.25	<0.25	<0.25	<0.5	5	<1.3	NA	2.7	<16	7	<10	6	7.7	6.0	4
Trichloroethene	0.5	5	NA	<0.19	***6.8***	***16***	<0.19	***26***	***100***	***6.9***	NA	***82***	***270***	***200***	***170***	***160***	***250***	***140***	***130***
Vinyl chloride	0.02	0.2	NA	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.50	NA	<0.10	<6.4	<0.2	<4	<0.13	<0.5	<0.1	<0.1
Xylenes, Total	400	2,000	NA	2.4	<0.068	<0.068	<0.068	<0.14	<0.14	<0.34	NA	<0.068	<16	<0.5	<10	<0.3	<0.34	<0.068	<0.068
PAHs																			
1-Methylnaphthalene	NE	NE	NA	<1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.1	NA
2-Methylnaphthalene	NE	NE	NA	<0.14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.14	NA
Naphthalene	10	100	NA	<0.32	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA
Total PCBs																			
Aroclor1016	0.003	0.03	NA	<0.18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.18	NA
Aroclor1232	0.003	0.03	NA	<0.096	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.096	NA
Aroclor1242	0.003	0.03	NA	<0.14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.14	NA
Dissolved PCBs																			
Aroclor1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Footnotes on Page 6.

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MW-3S (continued)										MW-3D						
Sample Interval (feet bls)	Preventive	Enforcement	19-29	19-29	19-29	19-29	19-29	19-29	19-29	19-29	19-29	19-29	48-53	48-53	48-53	48-53	48-53	48-53	48-53
Sample Date	Action Limit	Standard	12/17/12	01/15/13	02/12/13	03/12/13	04/16/13	07/16/13	10/10/13	04/16/14	04/22/14	10/22/14	04/07/10	10/01/10	03/30/11	04/12/12	11/30/12	01/16/13	02/12/13
Total Metals																			
Arsenic	1	10	<3.7	<3.7	NA	NA	NA	NA	NA	NA	<0.23	NA	NA	NA	NA	NA	0.32 J	0.18 J	0.19 J
Barium	400	2,000	69	NA	NA	NA	NA	NA	NA	NA	32	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.5	5	<2.6	NA	NA	NA	NA	NA	NA	NA	<0.15	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	10	100	***270***	***510***	NA	NA	NA	NA	NA	NA	***86***	NA	NA	NA	NA	NA	3.7 J	0.70 J	0.98 J
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	28	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	<920	<920	NA	NA	NA	NA	NA	NA	***530***	NA	NA	NA	NA	NA	***400***	79 J B	***210***
Lead	1.5	15	<0.78	NA	NA	NA	NA	NA	NA	NA	0.16 J	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	60	300	***800,000***	***460,000***	NA	NA	NA	NA	NA	NA	***130,000***	NA	NA	NA	NA	NA	42	***170***	***250 B***
Mercury	0.20	2	***13***	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	5.0 B	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	***23 J***	NA	NA	NA	NA	NA	NA	NA	9	NA	NA	NA	NA	NA	NA	NA	NA
Silver	10	50	7.1 J	NA	NA	NA	NA	NA	NA	NA	0.43 J	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	93	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals																			
Arsenic	1	10	NA	<3.7	NA	NA	NA	NA	NA	NA	<0.23	NA	NA	NA	NA	NA	0.23 J	0.18 J	0.20 J
Barium	400	2,000	NA	34 J	NA	NA	NA	NA	NA	NA	0.52 J	NA	NA	NA	NA	NA	68	66	50
Cadmium	0.5	5	NA	<2.6	NA	NA	NA	NA	NA	NA	<0.15	NA	NA	NA	NA	NA	0.13 J	0.15 J	0.22 J
Chromium	10	100	NA	***510***	NA	NA	NA	***120***	NA	NA	***87***	NA	NA	NA	NA	NA	2.4 J	0.77 J	<0.64
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	0.83 J	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	<920	NA	NA	NA	NA	NA	NA	<12	NA	NA	NA	NA	NA	<37	<37	<37
Lead	1.5	15	NA	<3.9	NA	NA	NA	NA	NA	NA	<0.091	NA	NA	NA	NA	NA	<0.16	0.29 J	<0.16
Manganese	60	300	NA	***370,000***	NA	NA	NA	5.3 B	NA	NA	***110,000***	NA	NA	NA	NA	NA	28	***170***	***230 B***
Mercury	0.2	2	NA	***4.1***	NA	NA	NA	0.082 J	NA	NA	NA	NA	NA	NA	NA	NA	<0.071	NA	<0.071
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	0.98 JB	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	***35 J***	NA	NA	NA	NA	NA	NA	7.6	NA	NA	NA	NA	NA	<0.25	<0.25	<0.25
Silver	10	50	NA	2.6 J	NA	NA	NA	NA	NA	NA	0.41 J	NA	NA	NA	NA	NA	<0.069	<0.069	<0.069
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	<5.9	NA	NA	NA	NA	NA	NA	NA	NA

General Notes:
All concentrations in microgram per liter (µg/L).
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.

Acronyms and Abbreviations:
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
* = data is suspect and not used in evaluation
B = compound was found in the blank and the sample
bls = below land surface
J = result is between the method detection limit and the limit of quantitation
NA = not analyzed
NE = not established
ND = not detected
PCBs = polychlorinated biphenyls
PAHs = polycyclic aromatic hydrocarbons
VOCs = volatile organic compounds

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MW-3D (continued)						MW-3D2										
Sample Interval (feet bls)	Preventive	Enforcement	48-53	48-53	48-53	48-53	48-53	48-53	76-81	76-81	76-81	76-81	76-81	76-81	76-81	76-81	76-81	76-81	76-81
Sample Date	Action Limit	Standard	03/13/13	04/16/13	07/16/13	10/10/13	04/18/14	10/16/14	12/31/09	04/07/10	07/01/10	10/01/10	03/30/11	04/12/12	11/30/12	01/16/13	02/12/13	03/13/13	04/16/13
VOCs																			
1,1,1,2-Tetrachloroethane	7	70	<0.25	<0.25	<0.5	<0.25	<0.50	<0.50	<6.3	<13	<13	<0.25	<13	<1.6	<1.3	<0.5	<0.25	<0.25	<0.25
1,1,2-Trichloroethane	0.5	5	<0.28	<0.28	<0.56	<0.28	<0.56	<0.56	<6.3	<13	<13	<0.25	<13	<1.5	<1.4	<0.56	<0.28	<0.28	<0.28
1,1-Dichloroethene	0.7	7	<0.31	<0.31	<0.62	<0.31	<0.62	<0.62	<13	<25	<25	<0.5	<25	<1.5	<1.6	<0.62	<0.31	<0.31	<0.31
1,2,4-Trimethylbenzene	96	480	<0.14	<0.14	<0.28	<0.14	<0.28	<0.28	<5	<10	<10	<0.2	<10	<1.1	<0.7	<0.28	<0.14	<0.14	<0.14
1,2-Dibromoethane	0.005	0.05	<0.36	<0.36	<0.72	<0.36	<0.72	<0.72	NA	NA	NA	NA	NA	<2.3	<1.8	<0.72	<0.36	<0.36	<0.36
1,2-Dichlorobenzene	60	600	<0.27	<0.27	<0.54	<0.27	<0.54	<0.54	<5	<10	<10	<0.2	<10	<1.1	<1.4	<0.54	<0.27	<0.27	<0.27
1,2-Dichloropropane	0.5	5	<0.2	<0.2	<0.4	<0.2	<0.40	<0.40	<13	<25	<25	<0.5	<25	<1.8	<1	<0.4	<0.2	<0.2	<0.2
1,3,5-Trimethylbenzene	96	480	<0.18	<0.18	<0.36	<0.18	<0.36	<0.36	<5	<10	<10	<0.2	<10	<1.2	<0.9	<0.36	<0.18	<0.18	<0.18
Benzene	0.5	5	<0.074	0.27 J	<0.15	0.36 J	<0.15	***0.55 J***	<5	<10	<10	<0.2	<10	<0.6	<0.37	<0.15	<0.074	<0.074	<0.074
Bromoform	0.44	4.4	<0.28	<0.28	<0.56	<0.28	<0.56	<0.56	<5	<10	<10	<0.2	<10	<2.3	<1.4	<0.56	<0.28	<0.28	<0.28
Bromomethane	1	10	<0.31	<0.31	<0.62	<0.31	<0.62	<0.62	<13	<25	<25	<0.5	<25	<2.5	<1.6	<0.62	<0.31	<0.31	<0.31
Carbon tetrachloride	0.5	5	<0.26	<0.26	<0.52	<0.26	<0.52	<0.52	<20	<40	<40	<0.8	<40	<1.4	<1.3	<0.52	<0.26	<0.26	<0.26
Chloroform	0.6	6	<0.2	<0.2	<0.4	***0.85 J***	<0.40	<0.40	<5	<10	<10	0.37	<10	<1.3	<1	<0.4	<0.2	<0.2	<0.2
Chloromethane	3	30	<0.18	<0.18	<0.36	<0.18	<0.36	<0.36	<7.5	<15	<15	<0.3	<15	<1.2	<0.9	<0.36	<0.18	<0.18	<0.18
cis-1,2-Dichloroethene	7	70	***54***	***210***	***200***	***180***	***170***	***170***	***520***	***510***	***460***	***400***	***440***	***440***	***420***	***320***	***250***	***100***	***45***
Dichlorodifluoromethane	200	1,000	<0.2	<0.2	<0.4	<0.2	<0.40	<0.40	<13	<25	<25	<0.5	<25	<1.3	<1	<0.4	<0.2	<0.2	<0.2
Ethylbenzene	140	700	<0.13	<0.13	<0.26	<0.13	<0.26	<0.26	<13	<25	<25	<0.5	<25	<0.7	<0.65	<0.26	<0.13	<0.13	<0.13
Isopropylbenzene	NE	NE	<0.14	<0.14	<0.28	<0.14	<0.28	<0.28	<5	<10	<10	<0.2	<10	<1.1	<0.7	<0.28	<0.14	<0.14	<0.14
Methyl tert-butyl ether	12	60	<0.24	<0.24	<0.48	<0.24	<0.48	<0.48	<13	<25	<25	<0.5	<25	<1.4	<1.2	<0.48	<0.24	<0.24	<0.24
Methylene Chloride	0.5	5	<0.68	<0.68	<1.4	<0.68	<1.4	<1.4	<25	<50	<50	<1	<50	<3.2	<3.4	<1.4	***7.3***	<0.68	<0.68
Naphthalene	10	100	<0.16	<0.16	<0.32	<0.16	<0.32	<0.32	<6.3	<13	***240***	<0.25	***13***	<1.2	<0.8	<0.32	<0.16	<0.16	<0.16
n-Butylbenzene	NE	NE	<0.13	<0.13	<0.26	<0.13	<0.26	<0.26	<5	<10	<10	<0.2	<10	<1.1	<0.65	<0.26	<0.13	<0.13	<0.13
N-Propylbenzene	NE	NE	<0.13	<0.13	<0.26	<0.13	<0.26	<0.26	<13	<25	<25	<0.5	<25	<0.95	<0.65	<0.26	<0.13	<0.13	<0.13
p-Isopropyltoluene	NE	NE	<0.17	<0.17	<0.34	<0.17	<0.34	<0.34	<5	<10	<10	<0.2	<10	<1.2	<0.85	<0.34	<0.17	<0.17	<0.17
sec-Butylbenzene	NE	NE	<0.15	<0.15	<0.3	<0.15	<0.30	<0.30	<6.3	<13	<13	<0.25	<13	<0.95	<0.75	<0.3	<0.15	<0.15	<0.15
Styrene	10	100	<0.1	<0.1	<0.2	<0.1	<0.20	<0.20	<13	<25	<25	<0.5	<25	<1.3	<0.5	<0.2	<0.1	<0.1	<0.1
tert-Butylbenzene	NE	NE	<0.14	<0.14	<0.28	<0.14	<0.28	<0.28	<5	<10	<10	<0.2	<10	<1.2	<0.7	<0.28	<0.14	<0.14	<0.14
Tetrachloroethene	0.5	5	***150***	***740***	***920***	***620***	***730***	***1,100***	***4,900***	***4,400***	***3,900***	***3,900***	***3,800***	***2,600***	***2,800***	***1,200***	***1,700***	***800***	***850***
Toluene	160	800	<0.11	<0.11	<0.22	<0.11	<0.22	<0.22	<13	<25	<25	<0.5	<25	<0.75	<0.55	<0.22	<0.11	<0.11	<0.11
trans-1,2-Dichloroethene	20	100	1.1	4.2	4.8	5.2	6.4	9.3	<13	<25	<25	7	<25	6.4	5.6	4.9	3.2	0.62 J	<0.25
Trichloroethene	0.5	5	***30***	***120***	***130***	***100***	***130***	***170***	***280***	***240***	***240***	***240***	***230***	***190***	***190***	***110***	***120***	***50***	***24***
Vinyl chloride	0.02	0.2	<0.1	<0.1	<0.2	<0.1	<0.20	<0.20	<5	<10	<10	***0.65***	<10	<0.65	<0.5	<0.2	***0.22 J***	<0.1	<0.1
Xylenes, Total	400	2,000	<0.068	<0.068	<0.14	<0.068	<0.14	<0.14	<13	<25	<25	<0.5	<25	<1.5	<0.34	<0.14	<0.068	<0.068	<0.068
PAHs																			
1-Methylnaphthalene	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.1	NA	NA	NA
2-Methylnaphthalene	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.14	NA	NA	NA
Naphthalene	10	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	NA	NA
Total PCBs																			
Aroclor1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.17	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.093	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.13	NA	NA	NA
Dissolved PCBs																			
Aroclor1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Footnotes on Page 8.

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MW-3D (continued)						MW-3D2										
Sample Interval (feet bls)	Preventive	Enforcement	48-53	48-53	48-53	48-53	48-53	48-53	76-81	76-81	76-81	76-81	76-81	76-81	76-81	76-81	76-81	76-81	76-81
Sample Date	Action Limit	Standard	03/13/13	04/16/13	07/16/13	10/10/13	04/18/14	10/16/14	12/31/09	04/07/10	07/01/10	10/01/10	03/30/11	04/12/12	11/30/12	01/16/13	02/12/13	03/13/13	04/16/13
Total Metals																			
Arsenic	1	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.21 J	0.19 J	0.19 J	NA	NA
Barium	400	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	10	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.1 J	4.1 J	***11***	NA	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<37	<37	75 J	NA	NA
Lead	1.5	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	60	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.6 J	17	12 B	NA	NA
Mercury	0.20	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals																			
Arsenic	1	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.28 J	0.15 J	0.17 J	NA	NA
Barium	400	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	43	42	40	NA	NA
Cadmium	0.5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	0.10 J	<0.1	NA	NA
Chromium	10	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0 J	4.4 J	***11***	NA	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<37	<37	<37	NA	NA
Lead	1.5	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.16	0.16 J	<0.16	NA	NA
Manganese	60	300	***230***	***350***	***430 B***	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	19	12 B	NA	NA
Mercury	0.2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.071	NA	<0.071	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.39 J	0.42 J	0.57 J	NA	NA
Silver	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.069	<0.069	<0.069	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

General Notes:
All concentrations in microgram per liter (µg/L).
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.

Acronyms and Abbreviations:
100 = concentration exceeds the NR 140 Wis. adm. code Preventive Action Limit
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< = constituent not detected above noted laboratory detection limit
* = data is suspect and not used in evaluation
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bls = below land surface
J = result is between the method detection limit and the limit of quantitation
NA = not analyzed
NE = not established
ND = not detected
PCBs = polychlorinated biphenyls
PAHs = polycyclic aromatic hydrocarbons
VOCs = volatile organic compounds

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MW-3D2 (continued)						MW-3D3									
Sample Interval (feet bls)	Preventive	Enforcement	76-81	76-81	76-81	76-81	76-81	76-81	214-224	214-224	214-224	214-224	214-224	214-224	214-224	214-224	214-224	214-224
Sample Date	Action Limit	Standard	07/16/13	10/10/13	04/16/14	04/16/14	10/23/14	10/23/14	07/24/12	11/27/12	01/18/13	02/15/13	03/13/13	04/19/13	07/16/13	10/07/13	04/16/14	10/16/14
VOCs																		
1,1,1,2-Tetrachloroethane	7	70	<0.25	<0.25	<1.3	<1.3	<0.50	<0.50	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
1,1,2-Trichloroethane	0.5	5	<0.28	<0.28	<1.4	<1.4	<0.56	<0.56	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
1,1-Dichloroethene	0.7	7	<0.31	<0.31	<1.6	<1.6	<0.62	<0.62	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31
1,2,4-Trimethylbenzene	96	480	<0.14	<0.14	<0.70	<0.70	<0.28	<0.28	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
1,2-Dibromoethane	0.005	0.05	<0.36	<0.36	<1.8	<1.8	<0.72	<0.72	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
1,2-Dichlorobenzene	60	600	<0.27	<0.27	<1.4	<1.4	<0.54	<0.54	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27
1,2-Dichloropropane	0.5	5	<0.2	<0.2	<1.0	<1.0	<0.40	<0.40	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20
1,3,5-Trimethylbenzene	96	480	<0.18	<0.18	<0.90	<0.90	<0.36	<0.36	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
Benzene	0.5	5	<0.074	<0.074	<0.37	<0.37	<0.15	<0.15	<0.074	<0.074	0.30 J	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074
Bromoform	0.44	4.4	<0.28	<0.28	<1.4	<1.4	<0.56	<0.56	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Bromomethane	1	10	<0.31	<0.31	<1.6	<1.6	<0.62	<0.62	<0.31	<0.31	<0.31	<0.31 *	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31
Carbon tetrachloride	0.5	5	<0.26	<0.26	<1.3	<1.3	<0.52	<0.52	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26
Chloroform	0.6	6	<0.2	<0.2	<1.0	<1.0	<0.40	<0.40	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20
Chloromethane	3	30	<0.18	<0.18	<0.90	<0.90	<0.36	<0.36	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
cis-1,2-Dichloroethene	7	70	***10***	***21***	***210***	***220***	***230***	***240***	2.2	6.8	***15***	***7.7***	6.2	4	1.2	<0.12	<0.12	<0.12
Dichlorodifluoromethane	200	1,000	<0.2	<0.2	<1.0	<1.0	<0.40	<0.40	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20
Ethylbenzene	140	700	<0.13	<0.13	<0.65	<0.65	<0.26	<0.26	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
Isopropylbenzene	NE	NE	<0.14	<0.14	<0.70	<0.70	<0.28	<0.28	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
Methyl tert-butyl ether	12	60	<0.24	<0.24	<1.2	<1.2	<0.48	<0.48	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24
Methylene Chloride	0.5	5	<0.68	<0.68	<3.4	<3.4	<1.4	<1.4	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68
Naphthalene	10	100	<0.16	<0.16	<0.80	<0.80	<0.32	<0.32	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
n-Butylbenzene	NE	NE	<0.13	<0.13	<0.65	<0.65	<0.26	<0.26	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
N-Propylbenzene	NE	NE	<0.13	<0.13	<0.65	<0.65	<0.26	<0.26	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
p-Isopropyltoluene	NE	NE	<0.17	<0.17	<0.85	<0.85	<0.34	<0.34	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
sec-Butylbenzene	NE	NE	<0.15	<0.15	<0.75	<0.75	<0.30	<0.30	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
Styrene	10	100	<0.1	<0.1	<0.50	<0.50	<0.20	<0.20	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10
tert-Butylbenzene	NE	NE	<0.14	<0.14	<0.70	<0.70	<0.28	<0.28	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
Tetrachloroethene	0.5	5	***440***	***150***	***1,800***	***1,700***	***1,700***	***1,700***	***6.6***	***1.7***	***1.3***	***0.72 J***	***0.95 J***	***0.63 J***	<0.17	<0.17	<0.17	<0.17
Toluene	160	800	<0.11	<0.11	<0.55	<0.55	<0.22	<0.22	<0.11	<0.11	0.21 J	<0.11	<0.11	0.53	2.8	<0.11	<0.11	<0.11
trans-1,2-Dichloroethene	20	100	<0.25	0.52 J	3.1 J	3.9 J	3	3.3	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
Trichloroethene	0.5	5	***8.7***	***9.8***	***120***	***130***	***140***	***140***	***1.1***	***1.1***	0.40 J	<0.19	<0.19	<0.19	0.31 J	0.5	<0.19	<0.19
Vinyl chloride	0.02	0.2	<0.1	<0.1	<0.50	<0.50	<0.20	<0.20	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10
Xylenes, Total	400	2,000	<0.068	<0.068	<0.34	<0.34	<0.14	<0.14	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068
PAHs																		
1-Methylnaphthalene	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	10	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs																		
Aroclor1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	<0.18	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	<0.096	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	<0.14	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																		
Aroclor1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Footnotes on Page 10.

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MW-3D2 (continued)						MW-3D3									
Sample Interval (feet bls)	Preventive	Enforcement	76-81	76-81	76-81	76-81	76-81	76-81	214-224	214-224	214-224	214-224	214-224	214-224	214-224	214-224	214-224	214-224
Sample Date	Action Limit	Standard	07/16/13	10/10/13	04/16/14	04/16/14	10/23/14	10/23/14	07/24/12	11/27/12	01/18/13	02/15/13	03/13/13	04/19/13	07/16/13	10/07/13	04/16/14	10/16/14
Total Metals																		
Arsenic	1	10	NA	NA	NA	NA	NA	NA	NA	0.93 J	***1***	***1***	NA	NA	NA	NA	NA	NA
Barium	400	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	10	100	NA	NA	NA	NA	NA	NA	NA	0.83 J	2.2 J	1.0 J	NA	NA	NA	NA	NA	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	NA	NA	NA	NA	NA	***4,400***	***5,000***	***6,200***	NA	NA	NA	NA	NA	NA
Lead	1.5	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	60	300	NA	NA	NA	NA	NA	NA	NA	***870***	***670***	***690 B***	NA	NA	NA	NA	NA	NA
Mercury	0.20	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals																		
Arsenic	1	10	NA	NA	NA	NA	NA	NA	NA	0.91 J	***2***	***1***	NA	NA	NA	NA	NA	NA
Barium	400	2,000	NA	NA	NA	NA	NA	NA	NA	85	81	96	NA	NA	NA	NA	NA	NA
Cadmium	0.5	5	NA	NA	NA	NA	NA	NA	NA	<0.1	<0.1	<0.1	NA	NA	NA	NA	NA	NA
Chromium	10	100	NA	NA	NA	NA	NA	NA	NA	<0.64	0.81 J	<0.64	NA	NA	NA	NA	NA	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	NA	NA	NA	NA	NA	***4,200***	***4,900***	***6,800***	NA	NA	NA	NA	NA	NA
Lead	1.5	15	NA	NA	NA	NA	NA	NA	NA	<0.16	<0.16	0.27 J B	NA	NA	NA	NA	NA	NA
Manganese	60	300	***340 B***	NA	NA	NA	NA	NA	NA	***820***	***690***	***610 B***	***590***	***570***	***620 B***	NA	NA	NA
Mercury	0.2	2	NA	NA	NA	NA	NA	NA	NA	0.17 J B	<0.071	<0.071	NA	NA	NA	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	NA	NA	NA	NA	<0.25	<0.25	<0.25	NA	NA	NA	NA	NA	NA
Silver	10	50	NA	NA	NA	NA	NA	NA	NA	<0.069	<0.069	<0.069	NA	NA	NA	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

General Notes:
All concentrations in microgram per liter (µg/L).
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.

Acronyms and Abbreviations:
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
* = data is suspect and not used in evaluation
B = compound was found in the blank and the sample
bls = below land surface
J = result is between the method detection limit and the limit of quantitation
NA = not analyzed
NE = not established
ND = not detected
PCBs = polychlorinated biphenyls
PAHs = polycyclic aromatic hydrocarbons
VOCs = volatile organic compounds

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MW-4S									MW-4D								
Sample Interval (feet bls)	Preventive	Enforcement	35-50	35-50	35-50	35-50	35-50	35-50	35-50	35-50	35-50	65-70	65-70	65-70	65-70	65-70	65-70	65-70	65-70	65-70
Sample Date	Action Limit	Standard	04/08/10	03/30/11	04/10/12	01/15/13	04/18/13	07/18/13	10/08/13	04/17/14	10/17/14	04/08/10	03/30/11	04/10/12	01/16/13	04/18/13	07/17/13	10/08/13	04/17/14	10/17/14
VOCs																				
1,1,1,2-Tetrachloroethane	7	70	<0.25	<0.25	<0.31	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.31	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
1,1,2-Trichloroethane	0.5	5	<0.25	<0.25	<0.3	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.25	<0.25	<0.3	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
1,1-Dichloroethene	0.7	7	<0.5	<0.5	<0.29	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.5	<0.5	<0.29	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31
1,2,4-Trimethylbenzene	96	480	<0.2	<0.2	<0.22	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.2	<0.2	<0.22	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
1,2-Dibromoethane	0.005	0.05	<0.2	<0.2	<0.45	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.2	<0.2	<0.45	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
1,2-Dichlorobenzene	60	600	<0.2	<0.2	<0.21	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.2	<0.2	<0.21	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27
1,2-Dichloropropane	0.5	5	<0.5	<0.5	<0.36	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.5	<0.5	<0.36	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20
1,3,5-Trimethylbenzene	96	480	<0.2	<0.2	<0.23	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.2	<0.2	<0.23	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
Benzene	0.5	5	<0.2	<0.2	<0.12	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.2	<0.2	<0.12	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074
Bromoform	0.44	4.4	<0.2	<0.2	<0.45	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.2	<0.2	<0.45	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Bromomethane	1	10	<0.5	<0.5	<0.49	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31 *	<0.5	<0.5	<0.49	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31 *
Carbon tetrachloride	0.5	5	<0.8	<0.8	<0.28	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.8	<0.8	<0.28	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26
Chloroform	0.6	6	<0.2	<0.2	<0.25	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.2	<0.2	<0.25	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20
Chloromethane	3	30	<0.3	<0.3	<0.24	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.3	<0.3	<0.24	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
cis-1,2-Dichloroethene	7	70	<0.5	<0.5	<0.22	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.5	<0.5	<0.22	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
Dichlorodifluoromethane	200	1,000	<0.5	<0.5	<0.26	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.5	<0.5	<0.26	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20
Ethylbenzene	140	700	<0.5	<0.5	<0.14	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.5	<0.5	<0.14	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
Isopropylbenzene	NE	NE	<0.2	<0.2	<0.21	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.2	<0.2	<0.21	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
Methyl tert-butyl ether	12	60	<0.5	<0.5	<0.28	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24 *	<0.5	<0.5	<0.28	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24 *
Methylene Chloride	0.5	5	<1	<1	<0.63	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<1	<1	<0.63	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68
Naphthalene	10	100	1.4	<0.25	<0.24	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.25	<0.25	<0.24	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
n-Butylbenzene	NE	NE	<0.2	<0.2	<0.21	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.2	<0.2	<0.21	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
N-Propylbenzene	NE	NE	<0.5	<0.5	<0.19	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.5	<0.5	<0.19	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
p-Isopropyltoluene	NE	NE	<0.2	<0.2	<0.24	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.2	<0.2	<0.24	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
sec-Butylbenzene	NE	NE	<0.25	<0.25	<0.19	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.25	<0.25	<0.19	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
Styrene	10	100	<0.5	<0.5	<0.26	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	<0.5	<0.5	<0.26	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10
tert-Butylbenzene	NE	NE	<0.2	<0.2	<0.24	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.2	<0.2	<0.24	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
Tetrachloroethene	0.5	5	***1.5***	***1.6***	***0.96 J***	***1.4***	***1.8***	***0.90 J***	***1.2***	***1.9***	***1.4***	***0.9***	***0.7***	<0.22	<0.17	***0.51 J***	<0.17	<0.17	***0.58 J***	<0.17
Toluene	160	800	<0.5	<0.5	0.20 J	<0.11	<0.11	0.26 J	<0.11	<0.11	<0.11	<0.5	<0.5	<0.15	<0.11	<0.11	0.36 J	<0.11	<0.11	<0.11
trans-1,2-Dichloroethene	20	100	<0.5	<0.5	<0.27	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.5	<0.5	<0.27	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
Trichloroethene	0.5	5	<0.2	<0.2	<0.18	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.2	<0.2	<0.18	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
Vinyl chloride	0.02	0.2	<0.2	<0.2	<0.13	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	<0.2	<0.2	<0.13	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10
Xylenes, Total	400	2,000	<0.5	<0.5	<0.3	<0.068	<0.068	0.28 J	<0.068	<0.068	<0.068	<0.5	<0.5	<0.3	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068
PAHs																				
1-Methylnaphthalene	NE	NE	NA	NA	NA	<1.1	NA	NA	NA	NA	NA	NA	NA	NA	<1.1	NA	NA	NA	NA	NA
2-Methylnaphthalene	NE	NE	NA	NA	NA	<0.14	NA	NA	NA	NA	NA	NA	NA	NA	<0.14	NA	NA	NA	NA	NA
Naphthalene	10	100	NA	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	NA	NA	NA	NA
Total PCBs																				
Aroclor1016	0.003	0.03	NA	NA	NA	<0.17	NA	NA	NA	NA	NA	NA	NA	NA	<0.17	NA	NA	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	<0.091	NA	NA	NA	NA	NA	NA	NA	NA	<0.093	NA	NA	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	<0.13	NA	NA	NA	NA	NA	NA	NA	NA	<0.13	NA	NA	NA	NA	NA
Dissolved PCBs																				
Aroclor1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Footnotes on Page 12.

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MW-4S									MW-4D								
Sample Interval (feet bls)	Preventive	Enforcement	35-50	35-50	35-50	35-50	35-50	35-50	35-50	35-50	35-50	65-70	65-70	65-70	65-70	65-70	65-70	65-70	65-70	65-70
Sample Date	Action Limit	Standard	04/08/10	03/30/11	04/10/12	01/15/13	04/18/13	07/18/13	10/08/13	04/17/14	10/17/14	04/08/10	03/30/11	04/10/12	01/16/13	04/18/13	07/17/13	10/08/13	04/17/14	10/17/14
Total Metals																				
Arsenic	1	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	400	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	10	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	1.5	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	60	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.20	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals																				
Arsenic	1	10	NA	NA	NA	<0.15	NA	NA	NA	NA	NA	NA	NA	NA	<0.15	NA	NA	NA	NA	NA
Barium	400	2,000	NA	NA	NA	120	NA	NA	NA	NA	NA	NA	NA	NA	56	NA	NA	NA	NA	NA
Cadmium	0.5	5	NA	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	NA	NA	NA	NA	NA
Chromium	10	100	NA	NA	NA	2.8 J	NA	NA	NA	NA	NA	NA	NA	NA	1.9 J	NA	NA	NA	NA	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	NA	<37	NA	NA	NA	NA	NA	NA	NA	NA	<37	NA	NA	NA	NA	NA
Lead	1.5	15	NA	NA	NA	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	<0.16	NA	NA	NA	NA	NA
Manganese	60	300	NA	NA	NA	32	NA	NA	NA	NA	NA	NA	NA	NA	5.5	NA	NA	NA	NA	NA
Mercury	0.2	2	NA	NA	NA	<0.071	NA	NA	NA	NA	NA	NA	NA	NA	<0.071	NA	NA	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	6.4	NA	NA	NA	NA	NA	NA	NA	NA	0.86 J	NA	NA	NA	NA	NA
Silver	10	50	NA	NA	NA	<0.069	NA	NA	NA	NA	NA	NA	NA	NA	<0.069	NA	NA	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

General Notes:
All concentrations in microgram per liter (µg/L).
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.

Acronyms and Abbreviations:
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
* = data is suspect and not used in evaluation
B = compound was found in the blank and the sample
bls = below land surface
J = result is between the method detection limit and the limit of quantitation
NA = not analyzed
NE = not established
ND = not detected
PCBs = polychlorinated biphenyls
PAHs = polycyclic aromatic hydrocarbons
VOCs = volatile organic compounds

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MW-4D2								MW-5S								
Sample Interval (feet bls)	Preventive	Enforcement	91-96	91-96	91-96	91-96	91-96	91-96	91-96	91-96	34-44	34-44	34-44	34-44	34-44	34-44	34-44	34-44	34-44
Sample Date	Action Limit	Standard	03/30/11	04/10/12	01/16/13	04/18/13	07/18/13	10/07/13	04/17/14	10/17/14	04/07/10	10/01/10	04/12/12	11/28/12	01/17/13	02/13/13	04/19/13	07/18/13	10/04/13
VOCs																			
1,1,1,2-Tetrachloroethane	7	70	<0.25	<0.31	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.31	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
1,1,2-Trichloroethane	0.5	5	<0.25	<0.3	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.25	<0.25	<0.3	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
1,1-Dichloroethene	0.7	7	<0.5	<0.29	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.5	<0.5	<0.29	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31
1,2,4-Trimethylbenzene	96	480	<0.2	<0.22	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.2	<0.2	<0.22	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
1,2-Dibromoethane	0.005	0.05	<0.2	<0.45	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	NA	NA	<0.45	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
1,2-Dichlorobenzene	60	600	<0.2	<0.21	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.2	<0.2	<0.21	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27
1,2-Dichloropropane	0.5	5	<0.5	<0.36	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.5	<0.5	<0.36	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
1,3,5-Trimethylbenzene	96	480	<0.2	<0.23	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.2	<0.2	<0.23	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
Benzene	0.5	5	<0.2	<0.12	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.2	<0.2	<0.12	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074
Bromoform	0.44	4.4	<0.2	<0.45	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.2	<0.2	<0.45	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Bromomethane	1	10	<0.5	<0.49	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31 *	<0.5	<0.5	<0.49	<0.31	0.73 J	<0.31 *	<0.31	<0.31	<0.31
Carbon tetrachloride	0.5	5	<0.8	<0.28	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.8	<0.8	***1.2***	***1.1***	<0.26	***1.4***	***1.1***	***1.3***	***1.3***
Chloroform	0.6	6	<0.2	<0.25	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.2	0.55	***0.84 J***	***0.79 J***	***0.79 J***	<0.2	<0.2	<0.2	***0.61 J***
Chloromethane	3	30	<0.3	<0.24	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.3	<0.3	<0.24	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
cis-1,2-Dichloroethene	7	70	<0.5	<0.22	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	1.4	***10***	***13***	4.2	3.8	2.7	2	2.9	2.9
Dichlorodifluoromethane	200	1,000	<0.5	<0.26	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.5	<0.5	<0.26	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Ethylbenzene	140	700	<0.5	<0.14	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.5	<0.5	<0.14	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
Isopropylbenzene	NE	NE	<0.2	<0.21	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.2	<0.2	<0.21	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
Methyl tert-butyl ether	12	60	<0.5	<0.28	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24 *	<0.5	<0.5	<0.28	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24
Methylene Chloride	0.5	5	<1	<0.63	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<1	<1	<0.63	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68
Naphthalene	10	100	<0.25	<0.24	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	1.4	<0.25	<0.24	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
n-Butylbenzene	NE	NE	<0.2	<0.21	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.2	<0.2	<0.21	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
N-Propylbenzene	NE	NE	<0.5	<0.19	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.5	<0.5	<0.19	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
p-Isopropyltoluene	NE	NE	<0.2	<0.24	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.2	<0.2	<0.24	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
sec-Butylbenzene	NE	NE	<0.25	<0.19	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.25	<0.25	<0.19	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
Styrene	10	100	<0.5	<0.26	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	<0.5	<0.5	<0.26	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
tert-Butylbenzene	NE	NE	<0.2	<0.24	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.2	<0.2	<0.24	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
Tetrachloroethene	0.5	5	***1.9***	***0.73 J***	***1.2***	***0.92 J***	***1.2***	***0.84 J***	***1.5***	***1***	***41***	***670***	***360***	***240***	***260***	***210***	***130***	***190***	***170***
Toluene	160	800	<0.5	0.40 J	<0.11	0.45 J	0.39 J	<0.11	<0.11	<0.11	<0.5	<0.5	<0.15	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11
trans-1,2-Dichloroethene	20	100	<0.5	<0.27	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.5	0.5	<0.27	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
Trichloroethene	0.5	5	<0.2	<0.18	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	***1.0***	***13***	***10***	***4.7***	***4.4***	***3.8***	***2.8***	***3***	***2.9***
Vinyl chloride	0.02	0.2	<0.2	<0.13	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	<0.2	<0.2	<0.13	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Xylenes, Total	400	2,000	<0.5	<0.3	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.5	<0.5	<0.3	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068
PAHs																			
1-Methylnaphthalene	NE	NE	NA	NA	<1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.1	NA	NA	NA	NA
2-Methylnaphthalene	NE	NE	NA	NA	<0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.14	NA	NA	NA	NA
Naphthalene	10	100	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.32	NA	NA	NA	NA
Total PCBs																			
Aroclor1016	0.003	0.03	NA	NA	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.17	NA	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	<0.087	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.091	NA	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	<0.12	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.13	NA	NA	NA	NA
Dissolved PCBs																			
Aroclor1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Footnotes on Page 14.

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MW-4D2								MW-5S								
Sample Interval (feet bls)	Preventive	Enforcement	91-96	91-96	91-96	91-96	91-96	91-96	91-96	91-96	34-44	34-44	34-44	34-44	34-44	34-44	34-44	34-44	34-44
Sample Date	Action Limit	Standard	03/30/11	04/10/12	01/16/13	04/18/13	07/18/13	10/07/13	04/17/14	10/17/14	04/07/10	10/01/10	04/12/12	11/28/12	01/17/13	02/13/13	04/19/13	07/18/13	10/04/13
Total Metals																			
Arsenic	1	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.36 J	0.28 J	0.30 J	NA	NA	NA
Barium	400	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	10	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.3 J	3.8 J	3.5 J	NA	NA	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	***310***	75 J	150	NA	NA	NA
Lead	1.5	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	60	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	48	5.3 B	14 B	NA	NA	NA
Mercury	0.20	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals																			
Arsenic	1	10	NA	NA	<0.15	NA	NA	NA	NA	NA	NA	NA	NA	0.24 J	0.26 J	0.25 J	NA	NA	NA
Barium	400	2,000	NA	NA	78	NA	NA	NA	NA	NA	NA	NA	NA	96	97	92	NA	NA	NA
Cadmium	0.5	5	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	<0.1	<0.1	NA	NA	NA
Chromium	10	100	NA	NA	2.9 J	NA	NA	NA	NA	NA	NA	NA	NA	3.8 J	3.8 J	2.9 J	NA	NA	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	<37	NA	NA	NA	NA	NA	NA	NA	NA	<37	<37	<37	NA	NA	NA
Lead	1.5	15	NA	NA	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	<0.16	0.20 J	0.36 J B	NA	NA	NA
Manganese	60	300	NA	NA	24	NA	NA	NA	NA	NA	NA	NA	NA	8.8	0.86 J B	6.4 B	NA	NA	NA
Mercury	0.2	2	NA	NA	<0.071	NA	NA	NA	NA	NA	NA	NA	NA	0.17 J B	<0.071	<0.071	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	2.0 J	NA	NA	NA	NA	NA	NA	NA	NA	<0.25	<0.25	<0.25	NA	NA	NA
Silver	10	50	NA	NA	<0.069	NA	NA	NA	NA	NA	NA	NA	NA	<0.069	<0.069	<0.069	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

General Notes:
All concentrations in microgram per liter (µg/L).
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.

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bls = below land surface
J = result is between the method detection limit and the limit of quantitation
NA = not analyzed
NE = not established
ND = not detected
PCBs = polychlorinated biphenyls
PAHs = polycyclic aromatic hydrocarbons
VOCs = volatile organic compounds

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MW-5S (continued)		MW-5D										MW-5D2			
Sample Interval (feet bls)	Preventive	Enforcement	34-44	34-44	75-80	75-80	75-80	75-80	75-80	75-80	75-80	75-80	75-80	75-80	165.8-170.8	165.8-170.8	165.8-170.8	165.8-170.8
Sample Date	Action Limit	Standard	04/15/14	10/21/14	04/07/10	04/12/12	11/28/12	01/17/13	02/13/13	04/19/13	07/18/13	10/04/13	04/15/14	10/21/14	01/17/13	02/13/13	04/19/13	07/18/13
VOCs																		
1,1,1,2-Tetrachloroethane	7	70	<0.25	<0.25	<5	<0.31	<1.3	<0.5	<0.5	<0.5	<1.3	<1.3	<0.25	<0.25	<0.25	<0.25	<0.25	<0.5
1,1,2-Trichloroethane	0.5	5	<0.28	<0.28	<5	<0.3	<1.4	<0.56	<0.56	<0.56	<1.4	<1.4	<0.28	<0.28	<0.28	<0.28	<0.28	<0.56
1,1-Dichloroethene	0.7	7	<0.31	<0.31	<10	<0.29	<1.6	<0.62	<0.62	<0.62	<1.6	<1.6	<0.31	<0.31	<0.31	<0.31	<0.31	<0.62
1,2,4-Trimethylbenzene	96	480	<0.14	<0.14	<4	<0.22	<0.7	<0.28	<0.28	<0.28	<0.7	<0.7	<0.14	<0.14	<0.14	<0.14	<0.14	<0.28
1,2-Dibromoethane	0.005	0.05	<0.36	<0.36	NA	<0.45	<1.8	<0.72	<0.72	<0.72	<1.8	<1.8	<0.36	<0.36	<0.36	<0.36	<0.36	<0.72
1,2-Dichlorobenzene	60	600	<0.27	<0.27	<4	<0.21	<1.4	<0.54	<0.54	<0.54	<1.4	<1.4	<0.27	<0.27	<0.27	<0.27	<0.27	<0.54
1,2-Dichloropropane	0.5	5	<0.20	<0.20	<10	<0.36	<1	<0.4	<0.4	<0.4	<1	<1	<0.20	<0.20	<0.2	<0.2	<0.2	<0.4
1,3,5-Trimethylbenzene	96	480	<0.18	<0.18	<4	<0.23	<0.9	<0.36	<0.36	<0.36	<0.9	<0.9	<0.18	<0.18	<0.18	<0.18	<0.18	<0.36
Benzene	0.5	5	<0.074	<0.074	<4	0.29 J	***1.1 J***	***1.2***	***1***	***0.88 J***	***1.5 J***	***2.8***	0.30 J	0.22 J	<0.074	<0.074	<0.074	<0.15
Bromoform	0.44	4.4	<0.28	<0.28	<4	<0.45	<1.4	<0.56	<0.56	<0.56	<1.4	<1.4	<0.28	<0.28	<0.28	<0.28	<0.28	<0.56
Bromomethane	1	10	<0.31	<0.31	<10	<0.49	<1.6	<0.62	<0.62 *	<0.62	<1.6	<1.6	<0.31	<0.31	<0.31	<0.31 *	<0.31	<0.62
Carbon tetrachloride	0.5	5	<0.26	***0.79 J***	<16	<0.28	<1.3	<0.52	<0.52	<0.52	<1.3	<1.3	<0.26	<0.26	<0.26	<0.26	<0.26	<0.52
Chloroform	0.6	6	<0.20	<0.20	<4	<0.25	<1	***1.0 J***	<0.4	<0.4	<1	<1	<0.20	<0.20	<0.2	<0.2	<0.2	<0.4
Chloromethane	3	30	<0.18	<0.18	<6	<0.24	<0.9	<0.36	<0.36	<0.36	<0.9	<0.9	<0.18	<0.18	<0.18	<0.18	<0.18	<0.36
cis-1,2-Dichloroethene	7	70	<0.12	<0.12	***48***	***26***	***93***	***110***	***94***	***100***	***120***	***140***	***77***	***100***	6.6	***9.2***	4.7	3.6
Dichlorodifluoromethane	200	1,000	<0.20	<0.20	<10	<0.26	<1	<0.4	<0.4	<0.4	<1	<1	<0.20	<0.20	<0.2	<0.2	<0.2	<0.4
Ethylbenzene	140	700	<0.13	<0.13	<10	<0.14	<0.65	<0.26	<0.26	<0.26	<0.65	<0.65	<0.13	<0.13	<0.13	<0.13	<0.13	<0.26
Isopropylbenzene	NE	NE	<0.14	<0.14	<4	<0.21	<0.7	<0.28	<0.28	<0.28	<0.7	<0.7	<0.14	<0.14	<0.14	<0.14	<0.14	<0.28
Methyl tert-butyl ether	12	60	<0.24	<0.24	<10	<0.28	<1.2	<0.48	<0.48	<0.48	<1.2	<1.2	<0.24	<0.24	<0.24	<0.24	<0.24	<0.48
Methylene Chloride	0.5	5	<0.68	<0.68	<20	<0.63	<3.4	<1.4	<1.4	<1.4	<3.4	<3.4	<0.68	<0.68	<0.68	<0.68	<0.68	<1.4
Naphthalene	10	100	<0.16	<0.16	<5	<0.24	<0.8	<0.32	<0.32	<0.32	<0.8	<0.8	<0.16	<0.16	<0.16	<0.16	<0.16	<0.32
n-Butylbenzene	NE	NE	<0.13	<0.13	<4	<0.21	<0.65	<0.26	<0.26	<0.26	<0.65	<0.65	<0.13	<0.13	<0.13	<0.13	<0.13	<0.26
N-Propylbenzene	NE	NE	<0.13	<0.13	<10	<0.19	<0.65	<0.26	<0.26	<0.26	<0.65	<0.65	<0.13	<0.13	<0.13	<0.13	<0.13	<0.26
p-Isopropyltoluene	NE	NE	<0.17	<0.17	<4	<0.24	<0.85	<0.34	<0.34	<0.34	<0.85	<0.85	<0.17	<0.17	<0.17	<0.17	<0.17	<0.34
sec-Butylbenzene	NE	NE	<0.15	<0.15	<5	<0.19	<0.75	<0.3	<0.3	<0.3	<0.75	<0.75	<0.15	<0.15	<0.15	<0.15	<0.15	<0.3
Styrene	10	100	<0.10	<0.10	<10	<0.26	<0.5	<0.2	<0.2	<0.2	<0.5	<0.5	<0.10	<0.10	<0.1	<0.1	<0.1	<0.2
tert-Butylbenzene	NE	NE	<0.14	<0.14	<4	<0.24	<0.7	<0.28	<0.28	<0.28	<0.7	<0.7	<0.14	<0.14	<0.14	<0.14	<0.14	<0.28
Tetrachloroethene	0.5	5	***47***	***75***	***1,100***	***400***	***2,000***	***1,800***	***1,700***	***1,200***	***2,000***	***2,000***	<0.17	***8.4***	***650***	***650***	***640***	***710***
Toluene	160	800	<0.11	<0.11	<10	0.30 J	<0.55	<0.22	<0.22	<0.22	<0.55	<0.55	<0.11	<0.11	0.7	0.22 J	0.35 J	2.4
trans-1,2-Dichloroethene	20	100	<0.25	<0.25	<10	1.3	3.9 J	3.9	3.1	3.4	3.8 J	2.9 J	<0.25	<0.25	<0.25	<0.25	<0.25	<0.5
Trichloroethene	0.5	5	<0.19	***1.2***	***100***	***48***	***190***	***180***	***180***	***170***	***160***	***110***	<0.19	***2.5***	***9.5***	***8.4***	***7.4***	***8.1***
Vinyl chloride	0.02	0.2	<0.10	<0.10	<4	<0.13	<0.5	<0.2	<0.2	<0.2	<0.5	<0.5	<0.10	<0.10	<0.1	<0.1	<0.1	<0.2
Xylenes, Total	400	2,000	<0.068	<0.068	<10	<0.3	<0.34	<0.14	<0.14	<0.14	<0.34	<0.34	<0.068	<0.068	<0.068	<0.068	<0.068	<0.14
PAHs																		
1-Methylnaphthalene	NE	NE	NA	NA	NA	NA	NA	<1.1	NA	NA	NA	NA	NA	NA	<1.1	NA	NA	NA
2-Methylnaphthalene	NE	NE	NA	NA	NA	NA	NA	<0.14	NA	NA	NA	NA	NA	NA	<0.15	NA	NA	NA
Naphthalene	10	100	NA	NA	NA	NA	NA	<0.32	NA	NA	NA	NA	NA	NA	<0.34	NA	NA	NA
Total PCBs																		
Aroclor1016	0.003	0.03	NA	NA	NA	NA	NA	<0.17	NA	NA	NA	NA	NA	NA	<0.19	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	NA	NA	<0.094	NA	NA	NA	NA	NA	NA	<0.1	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	NA	NA	<0.13	NA	NA	NA	NA	NA	NA	<0.14	NA	NA	NA
Dissolved PCBs																		
Aroclor1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Footnotes on Page 16.

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MW-5S (continued)		MW-5D										MW-5D2			
Sample Interval (feet bls)	Preventive	Enforcement	34-44	34-44	75-80	75-80	75-80	75-80	75-80	75-80	75-80	75-80	75-80	75-80	165.8-170.8	165.8-170.8	165.8-170.8	165.8-170.8
Sample Date	Action Limit	Standard	04/15/14	10/21/14	04/07/10	04/12/12	11/28/12	01/17/13	02/13/13	04/19/13	07/18/13	10/04/13	04/15/14	10/21/14	01/17/13	02/13/13	04/19/13	07/18/13
Total Metals																		
Arsenic	1	10	NA	NA	NA	NA	0.25 J	0.15 J	0.18 J	NA	NA	NA	NA	NA	0.18 J	0.16 J	NA	NA
Barium	400	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	10	100	NA	NA	NA	NA	***33***	***20***	***22***	NA	NA	NA	NA	NA	6.5	4.7 J	NA	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	NA	NA	***220***	<37	<37	NA	NA	NA	NA	NA	***250***	89 J	NA	NA
Lead	1.5	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	60	300	NA	NA	NA	NA	20	9.4 B	10 B	NA	NA	NA	NA	NA	34 B	52 B	NA	NA
Mercury	0.20	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals																		
Arsenic	1	10	NA	NA	NA	NA	<0.15	0.15 J	0.22 J	NA	NA	NA	NA	NA	<0.15	0.16 J	NA	NA
Barium	400	2,000	NA	NA	NA	NA	24	24	24	NA	NA	NA	NA	NA	22	23	NA	NA
Cadmium	0.5	5	NA	NA	NA	NA	<0.1	<0.1	<0.1	NA	NA	NA	NA	NA	<0.1	<0.1	NA	NA
Chromium	10	100	NA	NA	NA	NA	***22***	***21***	***22***	NA	NA	NA	NA	NA	5.1	4.8 J	NA	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	NA	NA	<37	<37	<37	NA	NA	NA	NA	NA	<37	66 J	NA	NA
Lead	1.5	15	NA	NA	NA	NA	<0.16	<0.16	0.73 B	NA	NA	NA	NA	NA	<0.16	0.37 J B	NA	NA
Manganese	60	300	NA	NA	NA	NA	10	10 B	12 B	NA	NA	NA	NA	NA	29 B	49 B	NA	NA
Mercury	0.2	2	NA	NA	NA	NA	***0.22 B***	<0.071	0.078 J	NA	NA	NA	NA	NA	<0.071	<0.071	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	NA	<0.25	<0.25	<0.25	NA	NA	NA	NA	NA	1.6 J	1.3 J	NA	NA
Silver	10	50	NA	NA	NA	NA	<0.069	<0.069	<0.069	NA	NA	NA	NA	NA	<0.069	<0.069	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

General Notes:
All concentrations in microgram per liter (µg/L).
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.

Acronyms and Abbreviations:
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
* = data is suspect and not used in evaluation
B = compound was found in the blank and the sample
bls = below land surface
J = result is between the method detection limit and the limit of quantitation
NA = not analyzed
NE = not established
ND = not detected
PCBs = polychlorinated biphenyls
PAHs = polycyclic aromatic hydrocarbons
VOCs = volatile organic compounds

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MW-5D2 (continued)			MW-5D3								MW-6S				
Sample Interval (feet bls)	Preventive	Enforcement	165.8-170.8	165.8-170.8	165.8-170.8	225-235	225-235	225-235	225-235	225-235	225-235	225-235	225-235	31.4-41.4	31.4-41.4	31.4-41.4	31.4-41.4	31.4-41.4
Sample Date	Action Limit	Standard	10/09/13	04/15/14	10/21/14	11/28/12	01/18/13	02/13/13	04/21/13	07/17/13	10/07/13	04/16/14	10/20/14	12/31/09	04/07/10	07/01/10	10/01/10	12/28/10
VOCs																		
1,1,1,2-Tetrachloroethane	7	70	<0.25	<0.50	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
1,1,2-Trichloroethane	0.5	5	<0.28	<0.56	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.25	<0.25	<0.25	<0.25	<0.25
1,1-Dichloroethene	0.7	7	<0.31	<0.62	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-Trimethylbenzene	96	480	<0.14	<0.28	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	4.3	3.3	1.3	2.2	3.2
1,2-Dibromoethane	0.005	0.05	<0.36	<0.72	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.2	<0.2	<0.2	<0.2	<0.2
1,2-Dichlorobenzene	60	600	<0.27	<0.54	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.2	<0.2	<0.2	<0.2	<0.2
1,2-Dichloropropane	0.5	5	<0.2	<0.40	<0.20	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.5	<0.5	<0.5	<0.5	<0.5
1,3,5-Trimethylbenzene	96	480	<0.18	<0.36	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	0.92	7.3	0.27	4.6	0
Benzene	0.5	5	<0.074	<0.15	<0.074	<0.074	0.28 J	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	***7.6***	***7.9***	***5***	***5.3***	***5***
Bromoform	0.44	4.4	<0.28	<0.56	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.2	<0.2	<0.2	<0.2	<0.2
Bromomethane	1	10	<0.31	<0.62	<0.31	<0.31	<0.31	<0.31 *	<0.31	<0.31	<0.31	<0.31	<0.31 *	<0.5	<0.5	<0.5	<0.5	<0.5
Carbon tetrachloride	0.5	5	<0.26	<0.52	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.8	<0.8	<0.8	<0.8	<0.8
Chloroform	0.6	6	<0.2	<0.40	<0.20	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2	<0.2
Chloromethane	3	30	<0.18	<0.36	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.3	<0.3	<0.3	<0.3	<0.3
cis-1,2-Dichloroethene	7	70	1.5	<0.24	0.79 J	3.1	***12***	***12***	1.6	2.1	4.5	<0.12	<0.12	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorodifluoromethane	200	1,000	<0.2	<0.40	<0.20	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	140	700	<0.13	<0.26	<0.13	<0.13	<0.13	<0.13	<0.13	0.32 J	<0.13	<0.13	<0.13	23	14	6	13	15
Isopropylbenzene	NE	NE	<0.14	<0.28	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	12	9.4	5.3	7.5	6.4
Methyl tert-butyl ether	12	60	<0.24	<0.48	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.5	<0.5	<0.5	<0.5	<0.5
Methylene Chloride	0.5	5	***5.7***	<1.4	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<1	<1	<1	<1	<1
Naphthalene	10	100	<0.16	<0.32	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	***26***	***14***	6.4	10	***16***
n-Butylbenzene	NE	NE	<0.13	<0.26	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	1.6	1.6	0.92	1.2	0.86
N-Propylbenzene	NE	NE	<0.13	<0.26	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	4.9	3.7	1.9	3.3	3.0
p-Isopropyltoluene	NE	NE	<0.17	<0.34	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	1.7	1.6	0.7	1.1	0.8
sec-Butylbenzene	NE	NE	<0.15	<0.30	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	1.9	1.8	1.5	1.5	1.0
Styrene	10	100	<0.1	<0.20	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	0.53	0.51	<0.5	<0.5	1.1
tert-Butylbenzene	NE	NE	<0.14	<0.28	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	0.27	0.31	0.22	0.24	<0.2
Tetrachloroethene	0.5	5	***110***	***520***	***47***	***19***	***0.59 J***	***0.83 J***	***1.8***	***0.78 J***	***1.5***	<0.17	<0.17	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	160	800	0.43 J	<0.22	<0.11	<0.11	<0.11	<0.11	0.29 J	0.53	0.20 J	<0.11	<0.11	3.3	3.3	1.2	1.8	2
trans-1,2-Dichloroethene	20	100	<0.25	<0.50	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethene	0.5	5	***6.1***	***7.1***	***2.2***	***2.6***	<0.19	<0.19	<0.19	<0.19	0.29 J	<0.19	<0.19	<0.2	<0.2	<0.2	<0.2	<0.2
Vinyl chloride	0.02	0.2	<0.1	<0.20	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	<0.2	<0.2	<0.2	<0.2	<0.2
Xylenes, Total	400	2,000	<0.068	<0.14	<0.068	<0.068	<0.068	<0.068	<0.068	0.68 J	<0.068	<0.068	<0.068	10	8.2	2.6	4.5	6.4
PAHs																		
1-Methylnaphthalene	NE	NE	NA	NA	NA	NA	<1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NE	NE	NA	NA	NA	NA	<0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	10	100	NA	NA	NA	NA	<0.34	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs																		
Aroclor1016	0.003	0.03	NA	NA	NA	NA	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	NA	<0.09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	NA	<0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																		
Aroclor1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Footnotes on Page 18.

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MW-5D2 (continued)			MW-5D3								MW-6S				
Sample Interval (feet bls)	Preventive	Enforcement	165.8-170.8	165.8-170.8	165.8-170.8	225-235	225-235	225-235	225-235	225-235	225-235	225-235	225-235	31.4-41.4	31.4-41.4	31.4-41.4	31.4-41.4	31.4-41.4
Sample Date	Action Limit	Standard	10/09/13	04/15/14	10/21/14	11/28/12	01/18/13	02/13/13	04/21/13	07/17/13	10/07/13	04/16/14	10/20/14	12/31/09	04/07/10	07/01/10	10/01/10	12/28/10
Total Metals																		
Arsenic	1	10	NA	NA	NA	0.61 J	***1.1***	0.66 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	400	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	10	100	NA	NA	NA	1.3 J	1.2 J	2.4 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	NA	***840***	***1,000***	***1,300***	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	1.5	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	60	300	NA	NA	NA	***400***	***570***	***620 B***	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.20	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals																		
Arsenic	1	10	NA	NA	NA	0.30 J	0.61 J	0.63 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	400	2,000	NA	NA	NA	70	68	61	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.5	5	NA	NA	NA	<0.1	<0.1	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	10	100	NA	NA	NA	1.1 J	<0.64	0.85 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	NA	***850***	***970***	***1,100***	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	1.5	15	NA	NA	NA	<0.16	<0.16	0.39 J B	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	60	300	NA	NA	NA	***430***	***560***	***600 B***	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.2	2	NA	NA	NA	0.17 J B	<0.071	<0.071	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	<0.25	<0.25	<0.25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	10	50	NA	NA	NA	<0.069	<0.069	<0.069	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

General Notes:
All concentrations in microgram per liter (µg/L).
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.

Acronyms and Abbreviations:
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
* = data is suspect and not used in evaluation
B = compound was found in the blank and the sample
bls = below land surface
J = result is between the method detection limit and the limit of quantitation
NA = not analyzed
NE = not established
ND = not detected
PCBs = polychlorinated biphenyls
PAHs = polycyclic aromatic hydrocarbons
VOCs = volatile organic compounds

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MW-6S (continued)							MW-6D									
Sample Interval (feet bls)	Preventive	Enforcement	31.4-41.4	31.4-41.4	31.4-41.4	31.4-41.4	31.4-41.4	31.4-41.4	31.4-41.4	65.5-70.5	65.5-70.5	65.5-70.5	65.5-70.5	65.5-70.5	65.5-70.5	65.5-70.5	65.5-70.5	65.5-70.5	65.5-70.5
Sample Date	Action Limit	Standard	04/11/12	01/17/13	04/20/13	07/18/13	10/07/13	04/17/14	10/16/14	12/31/09	04/07/10	07/01/10	10/01/10	12/28/10	03/31/11	04/12/12	01/16/13	04/20/13	07/18/13
VOCs																			
1,1,1,2-Tetrachloroethane	7	70	<0.31	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<13	<20	<13	<0.25	<2.5	<10	<0.62	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	0.5	5	<0.3	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<13	<20	<13	<0.25	<2.5	<10	<0.6	<0.56	<0.56	<0.56
1,1-Dichloroethene	0.7	7	<0.29	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<25	<40	<25	<0.5	<5	<20	<0.58	<0.62	<0.62	<0.62
1,2,4-Trimethylbenzene	96	480	4.8	12	0.92 J	<0.14	1.4	2.0	0.96 J	***330***	***130***	***130***	***160***	***180***	74	19	23	11	16
1,2-Dibromoethane	0.005	0.05	<0.45	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	***15***	<16	<10	***11***	***10***	<8	<0.9	<0.72	<0.72	<0.72
1,2-Dichlorobenzene	60	600	<0.21	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<10	<16	<10	<0.2	<2	<8	<0.42	<0.54	<0.54	<0.54
1,2-Dichloropropane	0.5	5	<0.36	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<25	<40	<25	***7.2***	***6***	<20	<0.72	<0.4	***1.9 J***	<0.4
1,3,5-Trimethylbenzene	96	480	1.5	3.4	<0.18	<0.18	<0.18	0.73 J	<0.18	23	<16	<10	13	13	<8	<0.46	<0.36	<0.36	<0.36
Benzene	0.5	5	***4.1***	***9.3***	***1.9***	0.34 J	***2.6***	***2.8***	***2.1***	***3,900***	***3,200***	***2,900***	<0.2	***2,900***	***2,100***	***1,500***	***1,300***	***600***	***810***
Bromoform	0.44	4.4	<0.45	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<10	<16	<10	<0.2	<2	<8	<0.9	<0.56	<0.56	<0.56
Bromomethane	1	10	<0.49	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<25	<40	<25	<0.5	<5	<20	<0.98	<0.62	<0.62	<0.62
Carbon tetrachloride	0.5	5	<0.28	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<40	<64	<40	<0.8	<8	<32	<0.56	<0.52	<0.52	<0.52
Chloroform	0.6	6	<0.25	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<10	<16	<10	<0.2	<2	<8	***3.6***	<0.4	<0.4	<0.4
Chloromethane	3	30	<0.24	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<15	<24	<15	<0.3	<3	<12	<0.48	<0.36	<0.36	<0.36
cis-1,2-Dichloroethene	7	70	<0.22	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<25	<40	<25	1.4	<5	<20	<0.44	<0.24	<0.24	<0.24
Dichlorodifluoromethane	200	1,000	<0.26	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<25	<40	<25	<0.5	<5	<20	<0.52	<0.4	<0.4	<0.4
Ethylbenzene	140	700	9.8	40	0.18 J	<0.13	8	7.5	3.5	47	<40	26	39	35	<20	8.7	7.5	3.5	7.1
Isopropylbenzene	NE	NE	4.1	12	<0.14	<0.14	3.2	2.6	2.1	54	43	32	45	40	35	23	30	16	27
Methyl tert-butyl ether	12	60	<0.28	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<25	<40	<25	<0.5	<5	<20	<0.56	<0.48	<0.48	<0.48
Methylene Chloride	0.5	5	***8.3***	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<50	<80	<50	<1	<10	<40	<1.3	<1.4	<1.4	<1.4
Naphthalene	10	100	***19***	***43***	<0.16	<0.16	3.8	4.2	1.9	***380***	***280***	***370***	***370***	***360***	***190***	***110***	***54***	3.9	***50***
n-Butylbenzene	NE	NE	<0.21	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	12	<16	<10	10	7.9	<8	<0.42	<0.26	<0.26	5
N-Propylbenzene	NE	NE	1.8	6.8	<0.13	<0.13	1.3	1.5	<0.13	49	<40	27	36	31	21	11	13	5.4	12
p-Isopropyltoluene	NE	NE	<0.24	2.4	<0.17	<0.17	<0.17	0.56 J	<0.17	<10	<16	<10	6.5	5.1	<8	2.6	3.8	1.7 J	3.2
sec-Butylbenzene	NE	NE	0.56 J	1.8	<0.15	<0.15	<0.15	0.82 J	<0.15	<13	<20	<13	4.7	4.2	<10	2.2	3.4	2	3.2
Styrene	10	100	<0.26	0.64 J	<0.1	<0.1	<0.1	<0.10	<0.10	<25	<40	<25	3.5	***12***	<20	<0.52	<0.2	<0.2	<0.2
tert-Butylbenzene	NE	NE	<0.24	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<10	<16	<10	<0.2	<2	<8	<0.48	<0.28	<0.28	<0.28
Tetrachloroethene	0.5	5	<0.22	<0.17	***0.53 J***	<0.17	<0.17	***0.66 J***	<0.17	***36***	***45***	***27***	***30***	***26***	***28***	***20***	***25***	***22***	***23***
Toluene	160	800	2.5	6.3	0.8	<0.11	1.1	1.1	<0.11	130	100	88	120	120	58	36	30	9	24
trans-1,2-Dichloroethene	20	100	<0.27	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<25	<40	<25	<0.5	<5	<20	<0.54	<0.5	<0.5	<0.5
Trichloroethene	0.5	5	<0.18	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<10	<16	<10	***4.5***	***4.5***	<8	***3.9***	***11***	***13***	***12***
Vinyl chloride	0.02	0.2	<0.13	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	<10	<16	<10	<0.2	<2	<8	<0.26	<0.2	<0.2	<0.2
Xylenes, Total	400	2,000	7.8	25	1.8	<0.068	3.3	2.8	1.9	***630***	320	250	***450***	400	130	40	40	12	34
PAHs																			
1-Methylnaphthalene	NE	NE	NA	3.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.1	NA	NA
2-Methylnaphthalene	NE	NE	NA	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.15	NA	NA
Naphthalene	10	100	NA	***39***	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	***31***	NA	NA
Total PCBs																			
Aroclor1016	0.003	0.03	NA	<0.17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.17	NA	NA
Aroclor1232	0.003	0.03	NA	<0.094	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.094	NA	NA
Aroclor1242	0.003	0.03	NA	<0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.13	NA	NA
Dissolved PCBs																			
Aroclor1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Footnotes on Page 20.

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MW-6S (continued)							MW-6D									
Sample Interval (feet bls)	Preventive	Enforcement	31.4-41.4	31.4-41.4	31.4-41.4	31.4-41.4	31.4-41.4	31.4-41.4	31.4-41.4	65.5-70.5	65.5-70.5	65.5-70.5	65.5-70.5	65.5-70.5	65.5-70.5	65.5-70.5	65.5-70.5	65.5-70.5	65.5-70.5
Sample Date	Action Limit	Standard	04/11/12	01/17/13	04/20/13	07/18/13	10/07/13	04/17/14	10/16/14	12/31/09	04/07/10	07/01/10	10/01/10	12/28/10	03/31/11	04/12/12	01/16/13	04/20/13	07/18/13
Total Metals																			
Arsenic	1	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	400	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	10	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	1.5	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	60	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.20	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals																			
Arsenic	1	10	NA	***4.3***	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.34 J	NA	NA
Barium	400	2,000	NA	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	***590***	NA	NA
Cadmium	0.5	5	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	NA	NA
Chromium	10	100	NA	<0.64	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.71 J	NA	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	***4,100***	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	***5,400 B***	NA	NA
Lead	1.5	15	NA	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.16	NA	NA
Manganese	60	300	NA	***1,800***	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	***1,800***	NA	NA
Mercury	0.2	2	NA	<0.071	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.071	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	1.5 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.39 J	NA	NA
Silver	10	50	NA	<0.069	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.069	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

General Notes:
All concentrations in microgram per liter (µg/L).
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.

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* = data is suspect and not used in evaluation
B = compound was found in the blank and the sample
bls = below land surface
J = result is between the method detection limit and the limit of quantitation
NA = not analyzed
NE = not established
ND = not detected
PCBs = polychlorinated biphenyls
PAHs = polycyclic aromatic hydrocarbons
VOCs = volatile organic compounds

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MW-6D (continued)					MW-7						MW-8				
Sample Interval (feet bls)	Preventive	Enforcement	65.5-70.5	65.5-70.5	65.5-70.5	65.5-70.5	65.5-70.5	24-35	24-35	24-35	24-35	24-35	24-35	24-34	24-34	24-34	24-34	24-34
Sample Date	Action Limit	Standard	10/07/13	04/17/14	04/17/14	10/16/14	10/16/14	08/26/11	04/10/12	01/14/13	04/16/13	07/17/13	10/03/13	08/26/11	04/10/12	01/15/13	04/16/13	07/17/13
VOCs																		
1,1,1,2-Tetrachloroethane	7	70	<0.25	<0.50	<0.50	<0.50	<0.50	<0.25	<0.31	<0.25	<0.25	<0.25	<0.25	<0.25	<0.31	<0.25	<0.25	<0.25
1,1,2-Trichloroethane	0.5	5	<0.28	<0.56	<0.56	<0.56	<0.56	<0.25	<0.3	<0.28	<0.28	<0.28	<0.28	<0.25	<0.3	<0.28	<0.28	<0.28
1,1-Dichloroethene	0.7	7	<0.31	<0.62	<0.62	<0.62	<0.62	<0.5	<0.29	<0.31	<0.31	<0.31	<0.31	<0.5	<0.29	<0.31	<0.31	<0.31
1,2,4-Trimethylbenzene	96	480	41	9.7	8.9	13	13	<0.2	<0.22	<0.14	<0.14	<0.14	<0.14	<0.2	<0.22	<0.14	<0.14	<0.14
1,2-Dibromoethane	0.005	0.05	<0.36	<0.72	<0.72	<0.72	<0.72	<0.2	<0.45	<0.36	<0.36	<0.36	<0.36	<0.2	<0.45	<0.36	<0.36	<0.36
1,2-Dichlorobenzene	60	600	<0.27	<0.54	<0.54	<0.54	<0.54	<0.2	<0.21	<0.27	<0.27	<0.27	<0.27	<0.2	<0.21	<0.27	<0.27	<0.27
1,2-Dichloropropane	0.5	5	<0.2	<0.40	***2.3***	***2.4***	<0.40	<0.5	<0.36	<0.2	<0.2	<0.2	<0.2	<0.5	<0.36	<0.2	<0.2	<0.2
1,3,5-Trimethylbenzene	96	480	0.71 J	<0.36	<0.36	<0.36	<0.36	<0.2	<0.23	<0.18	<0.18	<0.18	<0.18	<0.2	<0.23	<0.18	<0.18	<0.18
Benzene	0.5	5	***1,000***	***650***	***710***	***990***	***980***	<0.2	<0.12	<0.074	<0.074	<0.074	<0.074	<0.2	<0.12	<0.074	<0.074	<0.074
Bromoform	0.44	4.4	<0.28	<0.56	<0.56	<0.56	<0.56	<0.2	<0.45	<0.28	<0.28	<0.28	<0.28	<0.2	<0.45	<0.28	<0.28	<0.28
Bromomethane	1	10	<0.31	<0.62	<0.62	<0.62	<0.62	<0.5	<0.49	<0.31	<0.31	<0.31	<0.31	<0.5	<0.49	<0.31	<0.31	<0.31
Carbon tetrachloride	0.5	5	<0.26	<0.52	<0.52	<0.52	<0.52	<0.8	<0.28	<0.26	<0.26	<0.26	<0.26	<0.8	<0.28	<0.26	<0.26	<0.26
Chloroform	0.6	6	<0.2	<0.40	<0.40	<0.40	<0.40	<0.2	<0.25	<0.2	<0.2	<0.2	<0.2	<0.2	<0.25	<0.2	<0.2	<0.2
Chloromethane	3	30	<0.18	<0.36	<0.36	<0.36	<0.36	<0.3	<0.24	<0.18	<0.18	<0.18	<0.18	<0.3	<0.24	<0.18	<0.18	<0.18
cis-1,2-Dichloroethene	7	70	0.89 J	2.8	2.5	2.4	2.2	<0.5	<0.22	<0.12	<0.12	<0.12	<0.12	<0.5	<0.22	<0.12	<0.12	<0.12
Dichlorodifluoromethane	200	1,000	<0.2	<0.40	<0.40	<0.40	<0.40	<0.5	<0.26	<0.2	<0.2	<0.2	<0.2	<0.5	<0.26	<0.2	<0.2	<0.2
Ethylbenzene	140	700	8.1	6.7	6.3	8	7.2	<0.5	<0.14	<0.13	<0.13	<0.13	<0.13	<0.5	<0.14	<0.13	<0.13	<0.13
Isopropylbenzene	NE	NE	29	22	21	24	20	<0.2	<0.21	<0.14	<0.14	<0.14	<0.14	<0.2	<0.21	<0.14	<0.14	<0.14
Methyl tert-butyl ether	12	60	<0.24	<0.48	<0.48	<0.48	<0.48	<0.5	<0.28	<0.24	<0.24	<0.24	<0.24	<0.5	<0.28	<0.24	<0.24	<0.24
Methylene Chloride	0.5	5	<0.68	<1.4	<1.4	***76***	***61***	<1	<0.63	<0.68	<0.68	<0.68	<0.68	<1	<0.63	<0.68	<0.68	<0.68
Naphthalene	10	100	***72***	***12***	10	***18***	***15***	<0.25	<0.24	<0.16	<0.16	<0.16	<0.16	<0.25	<0.24	<0.16	<0.16	<0.16
n-Butylbenzene	NE	NE	<0.13	<0.26	<0.26	<0.26	<0.26	<0.2	<0.21	<0.13	<0.13	<0.13	<0.13	<0.2	<0.21	<0.13	<0.13	<0.13
N-Propylbenzene	NE	NE	14	9.2	8.6	7.9	7.5	<0.5	<0.19	<0.13	<0.13	<0.13	<0.13	<0.5	<0.19	<0.13	<0.13	<0.13
p-Isopropyltoluene	NE	NE	3.4	2.7	2.5	2.5	2.2	<0.2	<0.24	<0.17	<0.17	<0.17	<0.17	<0.2	<0.24	<0.17	<0.17	<0.17
sec-Butylbenzene	NE	NE	3.2	3	2.8	2.8	2.3	<0.25	<0.19	<0.15	<0.15	<0.15	<0.15	<0.25	<0.19	<0.15	<0.15	<0.15
Styrene	10	100	1	<0.20	<0.20	<0.20	<0.20	<0.5	<0.26	<0.1	<0.1	<0.1	<0.1	<0.5	<0.26	<0.1	<0.1	<0.1
tert-Butylbenzene	NE	NE	<0.14	<0.28	<0.28	<0.28	<0.28	<0.2	<0.24	<0.14	<0.14	<0.14	<0.14	<0.2	<0.24	<0.14	<0.14	<0.14
Tetrachloroethene	0.5	5	***17***	***10***	***8.9***	***4***	***3.1***	<0.5	<0.22	<0.17	<0.17	<0.17	<0.17	<0.5	<0.22	<0.17	<0.17	<0.17
Toluene	160	800	38	25	24	26	27	<0.5	<0.15	<0.11	<0.11	<0.11	<0.11	<0.5	<0.15	<0.11	<0.11	<0.11
trans-1,2-Dichloroethene	20	100	<0.25	<0.50	<0.50	<0.50	<0.50	<0.5	<0.27	<0.25	<0.25	<0.25	<0.25	<0.5	<0.27	<0.25	<0.25	<0.25
Trichloroethene	0.5	5	***18***	***24***	***23***	***31***	***28***	<0.2	<0.18	<0.19	<0.19	<0.19	<0.19	<0.2	<0.18	<0.19	<0.19	<0.19
Vinyl chloride	0.02	0.2	<0.1	<0.20	<0.20	<0.20	<0.20	<0.2	<0.13	<0.1	<0.1	<0.1	<0.1	<0.2	<0.13	<0.1	<0.1	<0.1
Xylenes, Total	400	2,000	63	16	15	25	24	<0.5	<0.3	<0.068	<0.068	<0.068	<0.068	<0.5	<0.3	<0.068	<0.068	<0.068
PAHs																		
1-Methylnaphthalene	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	10	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs																		
Aroclor1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																		
Aroclor1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Footnotes on Page 22.

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MW-6D (continued)					MW-7						MW-8				
Sample Interval (feet bls)	Preventive	Enforcement	65.5-70.5	65.5-70.5	65.5-70.5	65.5-70.5	65.5-70.5	24-35	24-35	24-35	24-35	24-35	24-35	24-34	24-34	24-34	24-34	24-34
Sample Date	Action Limit	Standard	10/07/13	04/17/14	04/17/14	10/16/14	10/16/14	08/26/11	04/10/12	01/14/13	04/16/13	07/17/13	10/03/13	08/26/11	04/10/12	01/15/13	04/16/13	07/17/13
Total Metals																		
Arsenic	1	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	400	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	10	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	1.5	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	60	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.20	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals																		
Arsenic	1	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	400	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	10	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	1.5	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	60	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

General Notes:
All concentrations in microgram per liter (µg/L).
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.

Acronyms and Abbreviations:
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
* = data is suspect and not used in evaluation
B = compound was found in the blank and the sample
bls = below land surface
J = result is between the method detection limit and the limit of quantitation
NA = not analyzed
NE = not established
ND = not detected
PCBs = polychlorinated biphenyls
PAHs = polycyclic aromatic hydrocarbons
VOCs = volatile organic compounds

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MW-8 (continued)			MW-9D								MW-9D2				
Sample Interval (feet bls)	Preventive	Enforcement	24-34	24-34	24-34	44-49	44-49	44-49	44-49	44-49	44-49	44-49	44-49	64-69	64-69	64-69	64-69	64-69
Sample Date	Action Limit	Standard	04/16/13	07/17/13	10/03/13	09/09/11	04/11/12	01/15/13	04/18/13	07/18/13	10/04/13	04/16/14	10/14/14	09/09/11	04/11/12	01/15/13	04/18/13	07/18/13
VOCs																		
1,1,1,2-Tetrachloroethane	7	70	<0.25	<0.25	<0.25	<0.25	<0.31	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.31	<0.25	<0.25	<0.25
1,1,2-Trichloroethane	0.5	5	<0.28	<0.28	<0.28	<0.25	<0.3	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.25	<0.3	<0.28	<0.28	<0.28
1,1-Dichloroethene	0.7	7	<0.31	<0.31	<0.31	<0.5	<0.29	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.5	<0.29	<0.31	<0.31	<0.31
1,2,4-Trimethylbenzene	96	480	<0.14	<0.14	<0.14	<0.2	<0.22	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.2	<0.22	<0.14	<0.14	<0.14
1,2-Dibromoethane	0.005	0.05	<0.36	<0.36	<0.36	<0.2	<0.45	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.2	<0.45	<0.36	<0.36	<0.36
1,2-Dichlorobenzene	60	600	<0.27	<0.27	<0.27	<0.2	<0.21	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.2	<0.21	<0.27	<0.27	<0.27
1,2-Dichloropropane	0.5	5	<0.2	<0.2	<0.2	<0.5	<0.36	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.5	<0.36	<0.2	<0.2	<0.2
1,3,5-Trimethylbenzene	96	480	<0.18	<0.18	<0.18	<0.2	<0.23	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.2	<0.23	<0.18	<0.18	<0.18
Benzene	0.5	5	<0.074	<0.074	<0.074	<0.2	<0.12	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.2	<0.12	<0.074	<0.074	<0.074
Bromoform	0.44	4.4	<0.28	<0.28	<0.28	<0.2	<0.45	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.2	<0.45	<0.28	<0.28	<0.28
Bromomethane	1	10	<0.31	<0.31	<0.31	<0.5	<0.49	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31 *	<0.5	<0.49	<0.31	<0.31	<0.31
Carbon tetrachloride	0.5	5	<0.26	<0.26	<0.26	<0.8	<0.28	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.8	<0.28	<0.26	<0.26	<0.26
Chloroform	0.6	6	<0.2	<0.2	<0.2	<0.2	<0.25	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.2	<0.25	<0.2	<0.2	<0.2
Chloromethane	3	30	<0.18	<0.18	<0.18	<0.3	<0.24	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.3	<0.24	<0.18	<0.18	<0.18
cis-1,2-Dichloroethene	7	70	<0.12	<0.12	<0.12	<0.5	<0.22	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	***12***	***11***	***14***	***16***	***16***
Dichlorodifluoromethane	200	1,000	<0.2	<0.2	<0.2	<0.5	<0.26	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.5	<0.26	<0.2	<0.2	<0.2
Ethylbenzene	140	700	<0.13	<0.13	<0.13	<0.5	<0.14	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.5	<0.14	<0.13	<0.13	<0.13
Isopropylbenzene	NE	NE	<0.14	<0.14	<0.14	<0.2	<0.21	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.2	<0.21	<0.14	<0.14	<0.14
Methyl tert-butyl ether	12	60	<0.24	<0.24	<0.24	<0.5	<0.28	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	7.4	9.3	***20***	10	12
Methylene Chloride	0.5	5	<0.68	<0.68	<0.68	<1	***9***	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<1	***8.8***	<0.68	<0.68	<0.68
Naphthalene	10	100	<0.16	<0.16	<0.16	<0.25	<0.24	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.25	<0.24	<0.16	<0.16	<0.16
n-Butylbenzene	NE	NE	<0.13	<0.13	<0.13	<0.2	<0.21	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.2	<0.21	<0.13	<0.13	<0.13
N-Propylbenzene	NE	NE	<0.13	<0.13	<0.13	<0.5	<0.19	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.5	<0.19	<0.13	<0.13	<0.13
p-Isopropyltoluene	NE	NE	<0.17	<0.17	<0.17	<0.2	<0.24	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.2	<0.24	<0.17	<0.17	<0.17
sec-Butylbenzene	NE	NE	<0.15	<0.15	<0.15	<0.25	<0.19	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.25	<0.19	<0.15	<0.15	<0.15
Styrene	10	100	<0.1	<0.1	<0.1	<0.5	<0.26	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	<0.5	<0.26	<0.1	<0.1	<0.1
tert-Butylbenzene	NE	NE	<0.14	<0.14	<0.14	<0.2	<0.24	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.2	<0.24	<0.14	<0.14	<0.14
Tetrachloroethene	0.5	5	<0.17	<0.17	<0.17	<0.5	<0.22	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	***29***	***10***	***26***	***28***	***30***
Toluene	160	800	<0.11	<0.11	<0.11	<0.5	<0.15	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.5	<0.15	<0.11	<0.11	<0.11
trans-1,2-Dichloroethene	20	100	<0.25	<0.25	<0.25	<0.5	<0.27	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.5	<0.27	<0.25	<0.25	<0.25
Trichloroethene	0.5	5	<0.19	<0.19	<0.19	<0.2	<0.18	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	***5***	***3.8***	***5.5***	***6***	***6.3***
Vinyl chloride	0.02	0.2	<0.1	<0.1	<0.1	<0.2	<0.13	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	<0.2	<0.13	<0.1	<0.1	<0.1
Xylenes, Total	400	2,000	<0.068	<0.068	<0.068	<0.5	<0.3	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.5	<0.3	<0.068	<0.068	<0.068
PAHs																		
1-Methylnaphthalene	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	10	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs																		
Aroclor1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																		
Aroclor1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Footnotes on Page 24.

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MW-8 (continued)			MW-9D								MW-9D2				
Sample Interval (feet bls)	Preventive	Enforcement	24-34	24-34	24-34	44-49	44-49	44-49	44-49	44-49	44-49	44-49	44-49	64-69	64-69	64-69	64-69	64-69
Sample Date	Action Limit	Standard	04/16/13	07/17/13	10/03/13	09/09/11	04/11/12	01/15/13	04/18/13	07/18/13	10/04/13	04/16/14	10/14/14	09/09/11	04/11/12	01/15/13	04/18/13	07/18/13
Total Metals																		
Arsenic	1	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	400	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	10	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	1.5	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	60	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.20	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals																		
Arsenic	1	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	400	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	10	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	1.5	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	60	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

General Notes:
All concentrations in microgram per liter (µg/L).
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.

Acronyms and Abbreviations:
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
* = data is suspect and not used in evaluation
B = compound was found in the blank and the sample
bls = below land surface
J = result is between the method detection limit and the limit of quantitation
NA = not analyzed
NE = not established
ND = not detected
PCBs = polychlorinated biphenyls
PAHs = polycyclic aromatic hydrocarbons
VOCs = volatile organic compounds

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MW-9D2 (continued)			MW-10S						MW-11S						MW-12S
Sample Interval (feet bls)	Preventive	Enforcement	64-69	64-69	64-69	11-21	11-21	11-21	11-21	11-21	11-21	24-34	24-34	24-34	24-34	24-34	24-34	3-13
Sample Date	Action Limit	Standard	10/04/13	04/16/14	10/14/14	04/10/12	05/09/12	01/15/13	04/17/13	07/17/13	10/09/13	04/12/12	05/09/12	01/15/13	04/17/13	07/18/13	10/04/13	04/12/12
VOCs																		
1,1,1,2-Tetrachloroethane	7	70	<0.25	<0.25	<0.25	<0.31	<0.25	<0.25	<0.25	<0.25	<0.25	<0.31	<0.25	<0.25	<0.25	<0.25	<0.25	<0.31
1,1,2-Trichloroethane	0.5	5	<0.28	<0.28	<0.28	<0.3	<0.28	<0.28	<0.28	<0.28	<0.28	<0.3	<0.28	<0.28	<0.28	<0.28	<0.28	<0.3
1,1-Dichloroethene	0.7	7	<0.31	<0.31	<0.31	<0.29	<0.31	<0.31	<0.31	<0.31	<0.31	<0.29	<0.31	<0.31	<0.31	<0.31	<0.31	<0.29
1,2,4-Trimethylbenzene	96	480	<0.14	<0.14	<0.14	0.76 J	<0.14	<0.14	<0.14	<0.14	<0.14	0.55 J	<0.14	<0.14	<0.14	<0.14	<0.14	1.2
1,2-Dibromoethane	0.005	0.05	<0.36	<0.36	<0.36	<0.45	<0.36	<0.36	<0.36	<0.36	<0.36	<0.45	<0.36	<0.36	<0.36	<0.36	<0.36	<0.45
1,2-Dichlorobenzene	60	600	<0.27	<0.27	<0.27	<0.21	<0.27	<0.27	<0.27	<0.27	<0.27	<0.21	<0.27	<0.27	<0.27	<0.27	<0.27	<0.21
1,2-Dichloropropane	0.5	5	<0.2	<0.20	<0.20	<0.36	<0.2	<0.2	<0.2	<0.2	<0.2	<0.36	<0.2	<0.2	<0.2	<0.2	<0.2	<0.36
1,3,5-Trimethylbenzene	96	480	<0.18	<0.18	<0.18	<0.23	<0.18	<0.18	<0.18	<0.18	<0.18	<0.23	<0.18	<0.18	<0.18	<0.18	<0.18	<0.23
Benzene	0.5	5	<0.074	<0.074	<0.074	<0.12	<0.074	<0.074	<0.074	<0.074	<0.074	<0.12	<0.074	<0.074	<0.074	<0.074	<0.074	<0.12
Bromoform	0.44	4.4	<0.28	<0.28	<0.28	<0.45	<0.28	<0.28	<0.28	<0.28	<0.28	<0.45	<0.28	<0.28	<0.28	<0.28	<0.28	<0.45
Bromomethane	1	10	<0.31	<0.31	<0.31 *	<0.49	<0.31	<0.31	<0.31	<0.31	<0.31	<0.49	<0.31	<0.31	<0.31	<0.31	<0.31	<0.49
Carbon tetrachloride	0.5	5	<0.26	<0.26	<0.26	<0.28	<0.26	<0.26	<0.26	<0.26	<0.26	<0.28	<0.26	<0.26	<0.26	<0.26	<0.26	<0.28
Chloroform	0.6	6	<0.2	<0.20	<0.20	<0.25	<0.2	<0.2	<0.2	<0.2	<0.2	<0.25	<0.2	<0.2	<0.2	<0.2	<0.2	<0.25
Chloromethane	3	30	<0.18	<0.18	<0.18	<0.24	<0.18	<0.18	<0.18	<0.18	<0.18	<0.24	<0.18	<0.18	<0.18	<0.18	<0.18	<0.24
cis-1,2-Dichloroethene	7	70	***18***	***19***	***24***	<0.22	<0.12	<0.12	<0.12	<0.12	<0.12	<0.22	<0.12	<0.12	<0.12	<0.12	<0.12	<0.22
Dichlorodifluoromethane	200	1,000	<0.2	<0.20	<0.20	<0.26	<0.2	<0.2	<0.2	<0.2	<0.2	<0.26	<0.2	<0.2	<0.2	<0.2	<0.2	<0.26
Ethylbenzene	140	700	<0.13	<0.13	<0.13	0.20 J	<0.13	<0.13	<0.13	<0.13	<0.13	<0.14	<0.13	<0.13	<0.13	<0.13	<0.13	<0.14
Isopropylbenzene	NE	NE	<0.14	<0.14	<0.14	<0.21	<0.14	<0.14	<0.14	<0.14	<0.14	<0.21	<0.14	<0.14	<0.14	<0.14	<0.14	<0.21
Methyl tert-butyl ether	12	60	***15***	9.6	12	<0.28	<0.24	<0.24	<0.24	<0.24	<0.24	<0.28	<0.24	<0.24	<0.24	<0.24	<0.24	<0.28
Methylene Chloride	0.5	5	<0.68	<0.68	<0.68	<0.63	<0.68	<0.68	<0.68	<0.68	<0.68	<0.63	<0.68	<0.68	<0.68	<0.68	<0.68	<0.63
Naphthalene	10	100	<0.16	<0.16	<0.16	<0.24	<0.16	<0.16	<0.16	<0.16	<0.16	<0.24	<0.16	<0.16	<0.16	<0.16	<0.16	<0.24
n-Butylbenzene	NE	NE	<0.13	<0.13	<0.13	<0.21	<0.13	<0.13	<0.13	<0.13	<0.13	<0.21	<0.13	<0.13	<0.13	<0.13	<0.13	<0.21
N-Propylbenzene	NE	NE	<0.13	<0.13	<0.13	<0.19	<0.13	<0.13	<0.13	<0.13	<0.13	<0.19	<0.13	<0.13	<0.13	<0.13	<0.13	<0.19
p-Isopropyltoluene	NE	NE	<0.17	<0.17	<0.17	<0.24	<0.17	<0.17	<0.17	<0.17	<0.17	<0.24	<0.17	<0.17	<0.17	<0.17	<0.17	<0.24
sec-Butylbenzene	NE	NE	<0.15	<0.15	<0.15	<0.19	<0.15	<0.15	<0.15	<0.15	<0.15	<0.19	<0.15	<0.15	<0.15	<0.15	<0.15	<0.19
Styrene	10	100	<0.1	<0.10	<0.10	<0.26	<0.1	<0.1	<0.1	<0.1	<0.1	<0.26	<0.1	<0.1	<0.1	<0.1	<0.1	<0.26
tert-Butylbenzene	NE	NE	<0.14	<0.14	<0.14	<0.24	<0.14	<0.14	<0.14	<0.14	<0.14	<0.24	<0.14	<0.14	<0.14	<0.14	<0.14	<0.24
Tetrachloroethene	0.5	5	***34***	***26***	***41***	<0.22	<0.17	***0.85 J***	<0.17	<0.17	<0.17	<0.22	<0.17	<0.17	<0.17	<0.17	<0.17	***0.78 J***
Toluene	160	800	<0.11	<0.11	<0.11	0.54	<0.11	<0.11	<0.11	<0.11	<0.11	0.73	<0.11	<0.11	<0.11	<0.11	<0.11	0.64
trans-1,2-Dichloroethene	20	100	<0.25	<0.25	<0.25	<0.27	<0.25	<0.25	<0.25	<0.25	<0.25	<0.27	<0.25	<0.25	<0.25	<0.25	<0.25	<0.27
Trichloroethene	0.5	5	***7.4***	***6.5***	***9.6***	<0.18	<0.19	<0.19	<0.19	<0.19	<0.19	<0.18	<0.19	<0.19	<0.19	<0.19	<0.19	<0.18
Vinyl chloride	0.02	0.2	<0.1	<0.10	<0.10	<0.13	<0.1	<0.1	<0.1	<0.1	<0.1	<0.13	<0.1	<0.1	<0.1	<0.1	<0.1	<0.13
Xylenes, Total	400	2,000	<0.068	<0.068	<0.068	0.83 J	<0.068	<0.068	<0.068	<0.068	<0.068	0.86 J	<0.068	<0.068	<0.068	<0.068	<0.068	1.6
PAHs																		
1-Methylnaphthalene	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	10	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs																		
Aroclor1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																		
Aroclor1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Footnotes on Page 26.

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MW-9D2 (continued)			MW-10S						MW-11S						MW-12S
Sample Interval (feet bls)	Preventive	Enforcement	64-69	64-69	64-69	11-21	11-21	11-21	11-21	11-21	11-21	24-34	24-34	24-34	24-34	24-34	24-34	3-13
Sample Date	Action Limit	Standard	10/04/13	04/16/14	10/14/14	04/10/12	05/09/12	01/15/13	04/17/13	07/17/13	10/09/13	04/12/12	05/09/12	01/15/13	04/17/13	07/18/13	10/04/13	04/12/12
Total Metals																		
Arsenic	1	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	400	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	10	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	1.5	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	60	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.20	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals																		
Arsenic	1	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	400	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	10	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	1.5	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	60	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

General Notes:
All concentrations in microgram per liter (µg/L).
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.

Acronyms and Abbreviations:
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
* = data is suspect and not used in evaluation
B = compound was found in the blank and the sample
bls = below land surface
J = result is between the method detection limit and the limit of quantitation
NA = not analyzed
NE = not established
ND = not detected
PCBs = polychlorinated biphenyls
PAHs = polycyclic aromatic hydrocarbons
VOCs = volatile organic compounds

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MW-12S (continued)					MP-13											
Sample Interval (feet bls)	Preventive	Enforcement	3-13	3-13	3-13	3-13	3-13	44-48'	44-48'	44-48'	44-48'	44-48'	44-48'	44-48'	44-48'	67-71'	67-71'	67-71'	67-71'
Sample Date	Action Limit	Standard	05/09/12	01/16/13	04/17/13	07/18/13	10/04/13	12/06/12	01/19/13	02/21/13	04/17/13	07/22/13	10/07/13	04/16/14	10/14/14	12/06/12	01/19/13	02/21/13	04/17/13
VOCs																			
1,1,1,2-Tetrachloroethane	7	70	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.5	<0.25	<0.25	<0.50	<0.50	<1.3	<1.3	<1.3	<2.5
1,1,2-Trichloroethane	0.5	5	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.56	<0.28	<0.28	<0.56	<0.56	<1.4	<1.4	<1.4	<2.8
1,1-Dichloroethene	0.7	7	<0.31	<0.31	<0.31	<0.31	<0.31	***0.92 J***	***1.1***	***0.88 J***	<0.62	***0.85 J***	***1.1***	***1.3 J***	<0.62	***2.8 J***	***3.1 J***	<1.6	<3.1
1,2,4-Trimethylbenzene	96	480	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.28	<0.14	<0.14	<0.28	<0.28	<0.7	<0.7	<0.7	<1.4
1,2-Dibromoethane	0.005	0.05	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.72	<0.36	<0.36	<0.72	<0.72	<1.8	<1.8	<1.8	<3.6
1,2-Dichlorobenzene	60	600	<0.27	0.79 J	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.54	<0.27	<0.27	<0.54	<0.54	<1.4	<1.4	<1.4	<2.7
1,2-Dichloropropane	0.5	5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.2	<0.40	<0.40	<1	<1	<1	<2
1,3,5-Trimethylbenzene	96	480	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.36	<0.18	<0.18	<0.36	<0.36	<0.9	<0.9	<0.9	<1.8
Benzene	0.5	5	<0.074	<0.074	<0.074	<0.074	<0.074	0.34 J	0.38 J	0.32 J	0.38 J	0.34 J	0.46 J	<0.15	<0.15	<0.37	***1.1 J***	<0.37	<0.74
Bromoform	0.44	4.4	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.56	<0.28	<0.28	<0.56	<0.56	<1.4	<1.4	<1.4	<2.8
Bromomethane	1	10	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.62	<0.31	<0.31	<0.62	<0.62 *	<1.6	<1.6	<1.6	<3.1
Carbon tetrachloride	0.5	5	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.52	<0.26	<0.26	<0.52	<0.52	<1.3	<1.3	<1.3	<2.6
Chloroform	0.6	6	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.2	<0.40	<0.40	<1	<1	<1	<2
Chloromethane	3	30	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.36	<0.18	<0.18	<0.36	<0.36	<0.9	<0.9	<0.9	<1.8
cis-1,2-Dichloroethene	7	70	<0.12	<0.12	<0.12	<0.12	<0.12	***540***	***450***	***460***	***460***	***430***	***480***	***450***	***440***	***3,500***	***3,100***	***2,900***	***3,200***
Dichlorodifluoromethane	200	1,000	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.2	<0.40	<0.40	<1	<1	<1	<2
Ethylbenzene	140	700	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.26	<0.13	<0.13	<0.26	<0.26	<0.65	<0.65	<0.65	<1.3
Isopropylbenzene	NE	NE	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.28	<0.14	<0.14	<0.28	<0.28	<0.7	<0.7	<0.7	<1.4
Methyl tert-butyl ether	12	60	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.48	<0.24	<0.24	<0.48	<0.48	<1.2	<1.2	<1.2	<2.4
Methylene Chloride	0.5	5	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<1.4	<0.68	<0.68	<1.4	<1.4	<3.4	<3.4	<3.4	<6.8
Naphthalene	10	100	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.32	<0.16	<0.16	<0.32	<0.32	<0.8	<0.8	<0.8	<1.6
n-Butylbenzene	NE	NE	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.26	<0.13	<0.13	<0.26	<0.26	<0.65	<0.65	<0.65	<1.3
N-Propylbenzene	NE	NE	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.26	<0.13	<0.13	<0.26	<0.26	<0.65	<0.65	<0.65	<1.3
p-Isopropyltoluene	NE	NE	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.34	<0.17	<0.17	<0.34	<0.34	<0.85	<0.85	<0.85	<1.7
sec-Butylbenzene	NE	NE	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.3	<0.15	<0.15	<0.30	<0.30	<0.75	<0.75	<0.75	<1.5
Styrene	10	100	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1	<0.20	<0.20	<0.5	<0.5	<0.5	<1
tert-Butylbenzene	NE	NE	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.28	<0.14	<0.14	<0.28	<0.28	<0.7	<0.7	<0.7	<1.4
Tetrachloroethene	0.5	5	***1.7***	***0.93 J***	<0.17	***1.3***	***1.5***	***640***	***760***	***630***	***680***	***720***	***800***	***750***	***750***	***3,800***	***4,300***	***2,900***	***3,800***
Toluene	160	800	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.22	<0.11	<0.11	<0.22	<0.22	<0.55	<0.55	<0.55	<1.1
trans-1,2-Dichloroethene	20	100	<0.25	<0.25	<0.25	<0.25	<0.25	7.3	6.7	6.1	6.9	6.9	8.4	8.5	7.7	***60***	***56***	***48***	***52***
Trichloroethene	0.5	5	0.26 J	<0.19	<0.19	<0.19	<0.19	***230***	***200***	***220***	***230***	***220***	***290***	***300***	***260***	***1,100***	***1,000***	***800***	***940***
Vinyl chloride	0.02	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	***15***	***17***	***17***	***13***	***13***	***17***	***14***	***16***	***150***	***180***	***140***	***130***
Xylenes, Total	400	2,000	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.14	<0.068	<0.068	<0.14	<0.14	<0.34	<0.34	<0.34	<0.68
PAHs																			
1-Methylnaphthalene	NE	NE	NA	NA	NA	NA	NA	<1.1	NA	NA	NA	NA	NA	NA	NA	<1.1	NA	NA	NA
2-Methylnaphthalene	NE	NE	NA	NA	NA	NA	NA	<0.14	NA	NA	NA	NA	NA	NA	NA	<0.14	NA	NA	NA
Naphthalene	10	100	NA	NA	NA	NA	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	<0.32	NA	NA	NA
Total PCBs																			
Aroclor1016	0.003	0.03	NA	NA	NA	NA	NA	<0.16	NA	NA	NA	NA	NA	NA	NA	<0.16	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	NA	NA	<0.085	NA	NA	NA	NA	NA	NA	NA	<0.085	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	NA	NA	<0.12	NA	NA	NA	NA	NA	NA	NA	<0.12	NA	NA	NA
Dissolved PCBs																			
Aroclor1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Footnotes on Page 28.

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MW-12S (continued)					MP-13										
Sample Interval (feet bls)	Preventive	Enforcement	3-13	3-13	3-13	3-13	3-13	44-48'	44-48'	44-48'	44-48'	44-48'	44-48'	44-48'	44-48'	67-71'	67-71'	67-71'	67-71'
Sample Date	Action Limit	Standard	05/09/12	01/16/13	04/17/13	07/18/13	10/04/13	12/06/12	01/19/13	02/21/13	04/17/13	07/22/13	10/07/13	04/16/14	10/14/14	12/06/12	01/19/13	02/21/13	04/17/13
Total Metals																			
Arsenic	1	10	NA	NA	NA	NA	NA	0.21 J	0.20 J	0.20 J	NA	NA	NA	NA	NA	0.16 J	0.17 J	<0.15	NA
Barium	400	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	10	100	NA	NA	NA	NA	NA	3.4 J	1.3 J	0.85 J	NA	NA	NA	NA	NA	6.8	2.1 J	0.86 J	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	NA	NA	NA	***1,300***	***360***	***390***	NA	NA	NA	NA	NA	61 J B	<37	<37	NA
Lead	1.5	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	60	300	NA	NA	NA	NA	NA	***340***	***290***	***270***	NA	NA	NA	NA	NA	10	3.3	2.6	NA
Mercury	0.20	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals																			
Arsenic	1	10	NA	NA	NA	NA	NA	0.16 J	0.19 J	0.16 J	NA	NA	NA	NA	NA	0.20 J	0.15 J	0.16 J	NA
Barium	400	2,000	NA	NA	NA	NA	NA	180	190	190	NA	NA	NA	NA	NA	26 B	24	25	NA
Cadmium	0.5	5	NA	NA	NA	NA	NA	<0.1	<0.1	0.12 J	NA	NA	NA	NA	NA	<0.1	<0.1	<0.1	NA
Chromium	10	100	NA	NA	NA	NA	NA	<0.64	<0.64	<0.64	NA	NA	NA	NA	NA	<0.64	<0.64	<0.64	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	NA	NA	NA	***860***	85 J	78 J	NA	NA	NA	NA	NA	43 J B	<37	<37	NA
Lead	1.5	15	NA	NA	NA	NA	NA	0.23 J	0.39 J	0.43 J	NA	NA	NA	NA	NA	<0.16	<0.16	<0.16	NA
Manganese	60	300	NA	NA	NA	NA	NA	***360***	***280***	***270***	NA	NA	NA	NA	NA	10	3.0	2.5	NA
Mercury	0.2	2	NA	NA	NA	NA	NA	<0.071	<0.071	<0.071	NA	NA	NA	NA	NA	<0.071	<0.071	<0.071	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	NA	NA	0.27 J	0.29 J	0.37 J	NA	NA	NA	NA	NA	<0.25	0.34 J	0.34 J	NA
Silver	10	50	NA	NA	NA	NA	NA	<0.069	<0.069	<0.069	NA	NA	NA	NA	NA	<0.069	<0.069	<0.069	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

General Notes:
All concentrations in microgram per liter (µg/L).
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.

Acronyms and Abbreviations:
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
* = data is suspect and not used in evaluation
B = compound was found in the blank and the sample
bls = below land surface
J = result is between the method detection limit and the limit of quantitation
NA = not analyzed
NE = not established
ND = not detected
PCBs = polychlorinated biphenyls
PAHs = polycyclic aromatic hydrocarbons
VOCs = volatile organic compounds

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MP-13 (continued)														
Sample Interval (feet bls)	Preventive	Enforcement	67-71'	67-71'	67-71'	67-71'	81-85'	81-85'	81-85'	81-85'	81-85'	81-85'	81-85'	81-85'	81-85'	102-106'	102-106'	102-106'
Sample Date	Action Limit	Standard	07/22/13	10/07/13	04/16/14	10/14/14	12/06/12	01/19/13	02/21/13	04/17/13	07/22/13	10/07/13	04/16/14	04/16/14	10/14/14	12/04/12	01/18/13	02/21/13
VOCs																		
1,1,1,2-Tetrachloroethane	7	70	<1.3	<1.3	<1.3	<1.3	<2.5	4.8 J	4.5 J	<5	<2.5	<1.3	<2.5	<5.0	<2.5	<1.3	<0.5	<0.5
1,1,2-Trichloroethane	0.5	5	<1.4	<1.4	<1.4	<1.4	<2.8	<2.8	<1.4	<5.6	<2.8	<1.4	<2.8	<5.6	<2.8	<1.4	<0.56	<0.56
1,1-Dichloroethene	0.7	7	<1.6	<1.6	<1.6	<1.6	<3.1	<3.1	***4.2 J***	<6.2	<3.1	<1.6	<3.1	<6.2	<3.1	<1.6	<0.62	<0.62
1,2,4-Trimethylbenzene	96	480	<0.7	<0.7	<0.70	<0.70	<1.4	<1.4	<0.7	<2.8	<1.4	<0.7	<1.4	<2.8	<1.4	<0.7	<0.28	<0.28
1,2-Dibromoethane	0.005	0.05	<1.8	<1.8	<1.8	<1.8	<3.6	<3.6	<1.8	<7.2	<3.6	<1.8	<3.6	<7.2	<3.6	<1.8	<0.72	<0.72
1,2-Dichlorobenzene	60	600	<1.4	<1.4	<1.4	<1.4	<2.7	<2.7	<1.4	<5.4	<2.7	<1.4	<2.7	<5.4	<2.7	<1.4	<0.54	<0.54
1,2-Dichloropropane	0.5	5	<1	<1	<1.0	<1.0	<2	<2	<1	<4	<2	<1	<2.0	<4.0	<2.0	<1	<0.4	<0.4
1,3,5-Trimethylbenzene	96	480	<0.9	<0.9	<0.90	<0.90	<1.8	<1.8	<0.9	<3.6	<1.8	<0.9	<1.8	<3.6	<1.8	<0.9	<0.36	<0.36
Benzene	0.5	5	<0.37	<0.37	<0.37	<0.37	<0.74	<0.74	<0.37	<1.5	<0.74	<0.37	<0.74	<1.5	<0.74	<0.37	<0.15	<0.15
Bromoform	0.44	4.4	<1.4	<1.4	<1.4	<1.4	<2.8	<2.8	<1.4	<5.6	<2.8	<1.4	<2.8	<5.6	<2.8	<1.4	<0.56	<0.56
Bromomethane	1	10	<1.6	<1.6	<1.6	<1.6 *	<3.1	<3.1	<1.6	<6.2	<3.1	<1.6	<3.1	<6.2	<3.1 *	<1.6	<0.62	<0.62
Carbon tetrachloride	0.5	5	<1.3	<1.3	<1.3	<1.3	<2.6	<2.6	<1.3	<5.2	<2.6	<1.3	<2.6	<5.2	<2.6	<1.3	<0.52	<0.52
Chloroform	0.6	6	<1	<1	<1.0	<1.0	<2	<2	<1	<4	<2	<1	<2.0	<4.0	<2.0	<1	<0.4	<0.4
Chloromethane	3	30	<0.9	<0.9	<0.90	<0.90	<1.8	<1.8	<0.9	<3.6	<1.8	<0.9	<1.8	<3.6	<1.8	<0.9	<0.36	<0.36
cis-1,2-Dichloroethene	7	70	***2,300***	***1,500***	***1,300***	***810***	***1,900***	***1,800***	***2,100***	***2,700***	***1,700***	***1,200***	***2,200***	***2,400***	***1,700***	***1,100***	***690***	***520***
Dichlorodifluoromethane	200	1,000	<1	<1	<1.0	<1.0	<2	<2	<1	<4	<2	<1	<2.0	<4.0	<2.0	<1	<0.4	<0.4
Ethylbenzene	140	700	<0.65	<0.65	<0.65	<0.65	<1.3	<1.3	<0.65	<2.6	<1.3	<0.65	<1.3	<2.6	<1.3	<0.65	<0.26	<0.26
Isopropylbenzene	NE	NE	<0.7	<0.7	<0.70	<0.70	<1.4	<1.4	<0.7	<2.8	<1.4	<0.7	<1.4	<2.8	<1.4	<0.7	<0.28	<0.28
Methyl tert-butyl ether	12	60	<1.2	<1.2	<1.2	<1.2	<2.4	<2.4	<1.2	<4.8	<2.4	<1.2	<2.4	<4.8	<2.4	<1.2	<0.48	<0.48
Methylene Chloride	0.5	5	<3.4	<3.4	<3.4	<3.4	<6.8	<6.8	<3.4	<14	<6.8	<3.4	<6.8	<14	<6.8	<3.4	<1.4	<1.4
Naphthalene	10	100	<0.8	<0.8	<0.80	<0.80	<1.6	<1.6	<0.8	<3.2	<1.6	<0.8	<1.6	<3.2	<1.6	<0.8	<0.32	<0.32
n-Butylbenzene	NE	NE	<0.65	<0.65	<0.65	<0.65	<1.3	<1.3	<0.65	<2.6	<1.3	<0.65	<1.3	<2.6	<1.3	<0.65	<0.26	<0.26
N-Propylbenzene	NE	NE	<0.65	<0.65	<0.65	<0.65	<1.3	<1.3	<0.65	<2.6	<1.3	<0.65	<1.3	<2.6	<1.3	<0.65	<0.26	<0.26
p-Isopropyltoluene	NE	NE	<0.85	<0.85	<0.85	<0.85	<1.7	<1.7	<0.85	<3.4	<1.7	<0.85	<1.7	<3.4	<1.7	<0.85	<0.34	<0.34
sec-Butylbenzene	NE	NE	<0.75	<0.75	<0.75	<0.75	<1.5	<1.5	<0.75	<3	<1.5	<0.75	<1.5	<3.0	<1.5	<0.75	<0.3	<0.3
Styrene	10	100	<0.5	<0.5	<0.50	<0.50	<1	<1	<0.5	<2	<1	<0.5	<1.0	<2.0	<1.0	<0.5	<0.2	<0.2
tert-Butylbenzene	NE	NE	<0.7	<0.7	<0.70	<0.70	<1.4	<1.4	<0.7	<2.8	<1.4	<0.7	<1.4	<2.8	<1.4	<0.7	<0.28	<0.28
Tetrachloroethene	0.5	5	***2,800***	***2,000***	***1,600***	***1,600***	***5,600***	***6,800***	***7,000***	***7,900***	***6,800***	***5,400***	***7,900***	***7,800***	***8,000***	***1,800***	***1,100***	***670***
Toluene	160	800	<0.55	<0.55	<0.55	<0.55	<1.1	<1.1	<0.55	<2.2	<1.1	<0.55	<1.1	<2.2	<1.1	<0.55	<0.22	<0.22
trans-1,2-Dichloroethene	20	100	***37***	***27***	***23***	12	***29***	***38***	***38***	***48***	***29***	19	***39***	***41***	***25***	15	10	5
Trichloroethene	0.5	5	***630***	***510***	***440***	***260***	***940***	***1,100***	***1,100***	***1,200***	***900***	***660***	***1100***	***1100***	***730***	***440***	***330***	***270***
Vinyl chloride	0.02	0.2	***110***	***92***	***83***	***45***	***64***	***120***	***110***	***99***	***75***	***48***	***87***	***95***	***55***	***33***	***23***	***13***
Xylenes, Total	400	2,000	<0.34	<0.34	<0.34	<0.34	<0.68	<0.68	<0.34	<1.4	<0.68	<0.34	<0.68	<1.4	<0.68	<0.34	<0.14	<0.14
PAHs																		
1-Methylnaphthalene	NE	NE	NA	NA	NA	NA	<1.1	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA
2-Methylnaphthalene	NE	NE	NA	NA	NA	NA	<0.14	NA	NA	NA	NA	NA	NA	NA	NA	<0.13	NA	NA
Naphthalene	10	100	NA	NA	NA	NA	<0.32	NA	NA	NA	NA	NA	NA	NA	NA	<0.31	NA	NA
Total PCBs																		
Aroclor1016	0.003	0.03	NA	NA	NA	NA	<0.15	NA	NA	NA	NA	NA	NA	NA	NA	<0.15	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	NA	<0.083	NA	NA	NA	NA	NA	NA	NA	NA	<0.083	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	NA	<0.12	NA	NA	NA	NA	NA	NA	NA	NA	<0.12	NA	NA
Dissolved PCBs																		
Aroclor1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Footnotes on Page 30.

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MP-13 (continued)														
Sample Interval (feet bls)	Preventive	Enforcement	67-71'	67-71'	67-71'	67-71'	81-85'	81-85'	81-85'	81-85'	81-85'	81-85'	81-85'	81-85'	81-85'	102-106'	102-106'	102-106'
Sample Date	Action Limit	Standard	07/22/13	10/07/13	04/16/14	10/14/14	12/06/12	01/19/13	02/21/13	04/17/13	07/22/13	10/07/13	04/16/14	04/16/14	10/14/14	12/04/12	01/18/13	02/21/13
Total Metals																		
Arsenic	1	10	NA	NA	NA	NA	0.17 J	<0.15	<0.15	NA	NA	NA	NA	NA	NA	0.24 J	0.32 J	0.17 J
Barium	400	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	10	100	NA	NA	NA	NA	2.0 J	0.79 J	<0.64	NA	NA	NA	NA	NA	NA	4.2 J	2.6 J	1.0 J
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	NA	NA	62 J B	<37	<37	NA	NA	NA	NA	NA	NA	46 J B	<37	<37
Lead	1.5	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	60	300	NA	NA	NA	NA	14	6.1	3.9	NA	NA	NA	NA	NA	NA	***83***	***100***	***68 V***
Mercury	0.20	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals																		
Arsenic	1	10	NA	NA	NA	NA	<0.15	<0.15	<0.15	NA	NA	NA	NA	NA	NA	0.21 J	0.20 J	0.20 J
Barium	400	2,000	NA	NA	NA	NA	24 B	23	24	NA	NA	NA	NA	NA	NA	65 B	45	38
Cadmium	0.5	5	NA	NA	NA	NA	<0.1	<0.1	<0.1	NA	NA	NA	NA	NA	NA	0.17 J	<0.1	<0.1
Chromium	10	100	NA	NA	NA	NA	<0.64	<0.64	<0.64	NA	NA	NA	NA	NA	NA	<0.64	<0.64	<0.64
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	NA	NA	43 J B	<37	<37	NA	NA	NA	NA	NA	NA	<37	<37	<37
Lead	1.5	15	NA	NA	NA	NA	<0.16	<0.16	<0.16	NA	NA	NA	NA	NA	NA	0.20 J	<0.16	1
Manganese	60	300	NA	NA	NA	NA	13	6.3	4.8	NA	NA	NA	NA	NA	NA	***86***	***97***	***68***
Mercury	0.2	2	NA	NA	NA	NA	<0.071	<0.071	<0.071	NA	NA	NA	NA	NA	NA	<0.071	<0.071	<0.071
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	NA	<0.25	<0.25	<0.25	NA	NA	NA	NA	NA	NA	0.54 J	0.36 J	0.29 J
Silver	10	50	NA	NA	NA	NA	<0.069	<0.069	<0.069	NA	NA	NA	NA	NA	NA	<0.069	<0.069	<0.069
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

General Notes:
All concentrations in microgram per liter (µg/L).
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.

Acronyms and Abbreviations:
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
* = data is suspect and not used in evaluation
B = compound was found in the blank and the sample
bls = below land surface
J = result is between the method detection limit and the limit of quantitation
NA = not analyzed
NE = not established
ND = not detected
PCBs = polychlorinated biphenyls
PAHs = polycyclic aromatic hydrocarbons
VOCs = volatile organic compounds

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MP-13 (continued)																
Sample Interval (feet bls)	Preventive	Enforcement	102-106'	102-106'	102-106'	102-106'	102-106'	121-125'	121-125'	121-125'	121-125'	121-125'	121-125'	121-125'	121-125'	135-139'	135-139'	135-139'	135-139'
Sample Date	Action Limit	Standard	04/17/13	07/22/13	10/07/13	04/16/14	10/14/14	12/04/12	01/18/13	02/20/13	04/17/13	07/22/13	10/07/13	04/16/14	10/14/14	12/04/12	01/17/13	02/20/13	04/17/13
VOCs																			
1,1,1,2-Tetrachloroethane	7	70	<1.3	<1.3	<1.3	<1.3	<1.3	<0.5	<1.3	NA	<5	<2.5	1.1	<5.0	<2.5	<0.5	<1.3	NA	<2.5
1,1,2-Trichloroethane	0.5	5	<1.4	<1.4	<1.4	<1.4	<1.4	<0.56	<1.4	NA	<5.6	<2.8	<0.28	<5.6	<2.8	<0.56	<1.4	NA	<2.8
1,1-Dichloroethene	0.7	7	<1.6	<1.6	<1.6	<1.6	<1.6	<0.62	<1.6	NA	<6.2	<3.1	<0.31	<6.2	<3.1	***1.5 J***	<1.6	NA	<3.1
1,2,4-Trimethylbenzene	96	480	<0.7	<0.7	<0.7	<0.70	<0.70	<0.28	<0.7	NA	<2.8	<1.4	<0.14	<2.8	<1.4	<0.28	<0.7	NA	<1.4
1,2-Dibromoethane	0.005	0.05	<1.8	<1.8	<1.8	<1.8	<1.8	<0.72	<1.8	NA	<7.2	<3.6	<0.36	<7.2	<3.6	<0.72	<1.8	NA	<3.6
1,2-Dichlorobenzene	60	600	<1.4	<1.4	<1.4	<1.4	<1.4	<0.54	<1.4	NA	<5.4	<2.7	<0.27	<5.4	<2.7	<0.54	<1.4	NA	<2.7
1,2-Dichloropropane	0.5	5	<1	<1	<1	<1.0	<1.0	<0.4	<1	NA	<4	<2	<0.2	<4.0	<2.0	<0.4	<1	NA	<2
1,3,5-Trimethylbenzene	96	480	<0.9	<0.9	<0.9	<0.90	<0.90	<0.36	<0.9	NA	<3.6	<1.8	<0.18	<3.6	<1.8	<0.36	<0.9	NA	<1.8
Benzene	0.5	5	<0.37	<0.37	<0.37	<0.37	<0.37	<0.15	<0.37	NA	<1.5	<0.74	0.29 J	<1.5	<0.74	0.41 J	***1.1 J***	NA	<0.74
Bromoform	0.44	4.4	<1.4	<1.4	<1.4	<1.4	<1.4	<0.56	<1.4	NA	<5.6	<2.8	<0.28	<5.6	<2.8	<0.56	<1.4	NA	<2.8
Bromomethane	1	10	<1.6	<1.6	<1.6	<1.6	<1.6 *	<0.62	<1.6	NA	<6.2	<3.1	<0.31	<6.2	<3.1 *	<0.62	<1.6	NA	<3.1
Carbon tetrachloride	0.5	5	<1.3	<1.3	<1.3	<1.3	<1.3	<0.52	<1.3	NA	<5.2	<2.6	<0.26	<5.2	<2.6	<0.52	<1.3	NA	<2.6
Chloroform	0.6	6	<1	<1	<1	<1.0	<1.0	<0.4	<1	NA	<4	<2	<0.2	<4.0	<2.0	<0.4	<1	NA	<2
Chloromethane	3	30	<0.9	<0.9	<0.9	<0.90	<0.90	<0.36	<0.9	NA	<3.6	<1.8	<0.18	<3.6	<1.8	<0.36	<0.9	NA	<1.8
cis-1,2-Dichloroethene	7	70	***720***	***660***	***600***	***770***	***730***	***910***	***1,000***	NA	***930***	***760***	***650***	***720***	***630***	***1,100***	***910***	NA	***540***
Dichlorodifluoromethane	200	1,000	<1	<1	<1	<1.0	<1.0	<0.4	<1	NA	<4	<2	<0.2	<4.0	<2.0	<0.4	<1	NA	<2
Ethylbenzene	140	700	<0.65	<0.65	<0.65	<0.65	<0.65	<0.26	<0.65	NA	<2.6	<1.3	<0.13	<2.6	<1.3	<0.26	<0.65	NA	<1.3
Isopropylbenzene	NE	NE	<0.7	<0.7	<0.7	<0.70	<0.70	<0.28	<0.7	NA	<2.8	<1.4	<0.14	<2.8	<1.4	<0.28	<0.7	NA	<1.4
Methyl tert-butyl ether	12	60	<1.2	<1.2	<1.2	<1.2	<1.2	<0.48	<1.2	NA	<4.8	<2.4	<0.24	<4.8	<2.4	<0.48	<1.2	NA	<2.4
Methylene Chloride	0.5	5	<3.4	<3.4	<3.4	<3.4	<3.4	<1.4	<3.4	NA	<14	<6.8	<0.68	<14	<6.8	<1.4	<3.4	NA	<6.8
Naphthalene	10	100	<0.8	<0.8	<0.8	<0.80	<0.80	<0.32	<0.8	NA	<3.2	<1.6	<0.16	<3.2	<1.6	<0.32	<0.8	NA	<1.6
n-Butylbenzene	NE	NE	<0.65	<0.65	<0.65	<0.65	<0.65	<0.26	<0.65	NA	<2.6	<1.3	<0.13	<2.6	<1.3	<0.26	<0.65	NA	<1.3
N-Propylbenzene	NE	NE	<0.65	<0.65	<0.65	<0.65	<0.65	<0.26	<0.65	NA	<2.6	<1.3	<0.13	<2.6	<1.3	<0.26	<0.65	NA	<1.3
p-Isopropyltoluene	NE	NE	<0.85	<0.85	<0.85	<0.85	<0.85	<0.34	<0.85	NA	<3.4	<1.7	<0.17	<3.4	<1.7	<0.34	<0.85	NA	<1.7
sec-Butylbenzene	NE	NE	<0.75	<0.75	<0.75	<0.75	<0.75	<0.3	<0.75	NA	<3	<1.5	<0.15	<3.0	<1.5	<0.3	<0.75	NA	<1.5
Styrene	10	100	<0.5	<0.5	<0.5	<0.50	<0.50	<0.2	<0.5	NA	<2	<1	<0.1	<2.0	<1.0	<0.2	<0.5	NA	<1
tert-Butylbenzene	NE	NE	<0.7	<0.7	<0.7	<0.70	<0.70	<0.28	<0.7	NA	<2.8	<1.4	<0.14	<2.8	<1.4	<0.28	<0.7	NA	<1.4
Tetrachloroethene	0.5	5	***1,400***	***1,500***	***1,900***	***1,600***	***2,000***	***1,500***	***2,600***	NA	***7,000***	***6,300***	***6,500***	***6,700***	***4,800***	***1,900***	***2,300***	NA	***3,800***
Toluene	160	800	<0.55	<0.55	<0.55	<0.55	<0.55	<0.22	<0.55	NA	<2.2	<1.1	<0.11	<2.2	<1.1	<0.22	<0.55	NA	<1.1
trans-1,2-Dichloroethene	20	100	7	6	7	9.8	8.1	12	17	NA	12 J	12	9.7	10 J	6.7 J	17	15	NA	8.5 J
Trichloroethene	0.5	5	***500***	***450***	***490***	***580***	***530***	***340***	***460***	NA	***600***	***510***	***550***	***710***	***520***	***450***	***430***	NA	***310***
Vinyl chloride	0.02	0.2	***20***	***19***	***20***	***23***	***22***	***36***	***54***	NA	***13***	***9.3***	***8.1***	***6.2 J***	<1.0	***50***	***42***	NA	***11***
Xylenes, Total	400	2,000	<0.34	<0.34	<0.34	<0.34	<0.34	<0.14	<0.34	NA	<1.4	<0.68	<0.068	<1.4	<0.68	<0.14	<0.34	NA	<0.68
PAHs																			
1-Methylnaphthalene	NE	NE	NA	NA	NA	NA	NA	<1.1	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA
2-Methylnaphthalene	NE	NE	NA	NA	NA	NA	NA	<0.14	NA	NA	NA	NA	NA	NA	NA	<0.13	NA	NA	NA
Naphthalene	10	100	NA	NA	NA	NA	NA	<0.32	NA	NA	NA	NA	NA	NA	NA	<0.3	NA	NA	NA
Total PCBs																			
Aroclor1016	0.003	0.03	NA	NA	NA	NA	NA	<0.15	NA	NA	NA	NA	NA	NA	NA	<0.15	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	NA	NA	<0.084	NA	NA	NA	NA	NA	NA	NA	<0.083	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	NA	NA	<0.12	NA	NA	NA	NA	NA	NA	NA	<0.12	NA	NA	NA
Dissolved PCBs																			
Aroclor1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Footnotes on Page 32.

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MP-13 (continued)															
Sample Interval (feet bls)	Preventive	Enforcement	102-106'	102-106'	102-106'	102-106'	102-106'	121-125'	121-125'	121-125'	121-125'	121-125'	121-125'	121-125'	121-125'	135-139'	135-139'	135-139'	135-139'
Sample Date	Action Limit	Standard	04/17/13	07/22/13	10/07/13	04/16/14	10/14/14	12/04/12	01/18/13	02/20/13	04/17/13	07/22/13	10/07/13	04/16/14	10/14/14	12/04/12	01/17/13	02/20/13	04/17/13
Total Metals																			
Arsenic	1	10	NA	NA	NA	NA	NA	0.18 J	0.29 J	0.17 J	NA	NA	NA	NA	NA	0.15 J	<0.15	<0.15	NA
Barium	400	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	10	100	NA	NA	NA	NA	NA	***12***	1.4 J	1.2 J	NA	NA	NA	NA	NA	9.6	***34***	<0.64	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	NA	NA	NA	***230 B***	<37	<37	NA	NA	NA	NA	NA	86 J B	150	<37	NA
Lead	1.5	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	60	300	NA	NA	NA	NA	NA	***63***	51	41 B	NA	NA	NA	NA	NA	42	19	9.7 B	NA
Mercury	0.20	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals																			
Arsenic	1	10	NA	NA	NA	NA	NA	0.38 J	0.27 J	0.19 J	NA	NA	NA	NA	NA	<0.15	<0.15	<0.15	NA
Barium	400	2,000	NA	NA	NA	NA	NA	72 B	57	52	NA	NA	NA	NA	NA	66 B	42	34	NA
Cadmium	0.5	5	NA	NA	NA	NA	NA	<0.1	<0.1	<0.1	NA	NA	NA	NA	NA	<0.1	<0.1	<0.1	NA
Chromium	10	100	NA	NA	NA	NA	NA	<0.64	<0.64	<0.64	NA	NA	NA	NA	NA	<0.64	<0.64	<0.64	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	NA	NA	NA	120 B	<37	<37	NA	NA	NA	NA	NA	43 J B	<37	<37	NA
Lead	1.5	15	NA	NA	NA	NA	NA	0.23 J	0.30 J	0.29 J B	NA	NA	NA	NA	NA	0.58	0.86	0.63 B	NA
Manganese	60	300	NA	NA	NA	NA	NA	***67***	54	41 B	NA	NA	NA	NA	NA	43	17	9.5 B	NA
Mercury	0.2	2	NA	NA	NA	NA	NA	<0.071	<0.071	<0.071	NA	NA	NA	NA	NA	<0.071	NA	<0.071	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	NA	NA	0.56 J	0.43 J	0.41 J	NA	NA	NA	NA	NA	0.55 J	0.34 J	<0.25	NA
Silver	10	50	NA	NA	NA	NA	NA	<0.069	<0.069	<0.069	NA	NA	NA	NA	NA	<0.069	<0.069	<0.069	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

General Notes:
All concentrations in microgram per liter (µg/L).
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.

Acronyms and Abbreviations:
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
* = data is suspect and not used in evaluation
B = compound was found in the blank and the sample
bls = below land surface
J = result is between the method detection limit and the limit of quantitation
NA = not analyzed
NE = not established
ND = not detected
PCBs = polychlorinated biphenyls
PAHs = polycyclic aromatic hydrocarbons
VOCs = volatile organic compounds

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MP-13 (continued)													MP-14		
Sample Interval (feet bls)	Preventive	Enforcement	135-139'	135-139'	135-139'	135-139'	135-139'	135-139'	163-167'	163-167'	163-167'	163-167'	163-167'	163-167'	163-167'	70-75'	70-75'	70-75'
Sample Date	Action Limit	Standard	02/20/13	04/17/13	07/22/13	10/07/13	04/16/14	10/14/14	12/04/12	01/16/13	02/20/13	04/17/13	07/22/13	10/07/13	04/16/14	10/14/14	01/21/13	04/16/13	07/16/13
VOCs																		
1,1,1,2-Tetrachloroethane	7	70	NA	<2.5	<2.5	<1.3	<2.5	<2.5	<1.3	<0.25	NA	<0.5	<0.25	<0.25	<0.50	<0.50	<0.25	<0.25	<0.25
1,1,2-Trichloroethane	0.5	5	NA	<2.8	<2.8	<1.4	<2.8	<2.8	<1.4	<0.28	NA	<0.56	<0.28	<0.28	<0.56	<0.56	<0.28	<0.28	<0.28
1,1-Dichloroethene	0.7	7	NA	<3.1	<3.1	<1.6	<3.1	<3.1	<1.6	***0.97 J***	NA	<0.62	<0.31	<0.31	<0.62	<0.62	<0.31	<0.31	<0.31
1,2,4-Trimethylbenzene	96	480	NA	<1.4	<1.4	<0.7	<1.4	<1.4	<0.7	<0.14	NA	<0.28	<0.14	<0.14	<0.28	<0.28	<0.14	<0.14	<0.14
1,2-Dibromoethane	0.005	0.05	NA	<3.6	<3.6	<1.8	<3.6	<3.6	<1.8	<0.36	NA	<0.72	<0.36	<0.36	<0.72	<0.72	<0.36	<0.36	<0.36
1,2-Dichlorobenzene	60	600	NA	<2.7	<2.7	<1.4	<2.7	<2.7	<1.4	<0.27	NA	<0.54	<0.27	<0.27	<0.54	<0.54	<0.27	<0.27	<0.27
1,2-Dichloropropane	0.5	5	NA	<2	<2	<1	<2.0	<2.0	<1	<0.2	NA	<0.4	<0.2	<0.2	<0.40	<0.40	<0.2	<0.2	<0.2
1,3,5-Trimethylbenzene	96	480	NA	<1.8	<1.8	<0.9	<1.8	<1.8	<0.9	<0.18	NA	<0.36	<0.18	<0.18	<0.36	<0.36	<0.18	<0.18	<0.18
Benzene	0.5	5	NA	<0.74	<0.74	<0.37	<0.74	<0.74	<0.37	<0.074	NA	<0.15	<0.074	<0.074	<0.15	<0.15	<0.074	<0.074	<0.074
Bromoform	0.44	4.4	NA	<2.8	<2.8	<1.4	<2.8	<2.8	<1.4	<0.28	NA	<0.56	<0.28	<0.28	<0.56	<0.56	<0.28	<0.28	<0.28
Bromomethane	1	10	NA	<3.1	<3.1	<1.6	<3.1	<3.1 *	<1.6	<0.31	NA	<0.62	<0.31	<0.31	<0.62	<0.62 *	<0.31	<0.31	<0.31
Carbon tetrachloride	0.5	5	NA	<2.6	<2.6	<1.3	<2.6	<2.6	<1.3	<0.26	NA	<0.52	<0.26	<0.26	<0.52	<0.52	<0.26	<0.26	<0.26
Chloroform	0.6	6	NA	<2	<2	<1	<2.0	<2.0	<1	<0.2	NA	<0.4	<0.2	<0.2	<0.40	<0.40	<0.2	<0.2	<0.2
Chloromethane	3	30	NA	<1.8	<1.8	<0.9	<1.8	<1.8	<0.9	<0.18	NA	<0.36	<0.18	<0.18	<0.36	<0.36	<0.18	<0.18	<0.18
cis-1,2-Dichloroethene	7	70	NA	***540***	***420***	***380***	***370***	***330***	***970***	***730***	NA	***460***	***200***	***170***	***180***	***160***	<0.12	<0.12	<0.12
Dichlorodifluoromethane	200	1,000	NA	<2	<2	<1	<2.0	<2.0	<1	<0.2	NA	<0.4	<0.2	<0.2	<0.40	<0.40	<0.2	<0.2	<0.2
Ethylbenzene	140	700	NA	<1.3	<1.3	<0.65	<1.3	<1.3	<0.65	<0.13	NA	<0.26	<0.13	<0.13	<0.26	<0.26	<0.13	<0.13	<0.13
Isopropylbenzene	NE	NE	NA	<1.4	<1.4	<0.7	<1.4	<1.4	<0.7	<0.14	NA	<0.28	<0.14	<0.14	<0.28	<0.28	<0.14	<0.14	<0.14
Methyl tert-butyl ether	12	60	NA	<2.4	<2.4	<1.2	<2.4	<2.4	<1.2	<0.24	NA	<0.48	<0.24	<0.24	<0.48	<0.48	<0.24	<0.24	<0.24
Methylene Chloride	0.5	5	NA	<6.8	<6.8	<3.4	<6.8	<6.8	<3.4	<0.68	NA	<1.4	<0.68	<0.68	<1.4	<1.4	<0.68	<0.68	<0.68
Naphthalene	10	100	NA	<1.6	<1.6	<0.8	<1.6	<1.6	<0.8	<0.16	NA	<0.32	<0.16	<0.16	<0.32	<0.32	<0.16	<0.16	<0.16
n-Butylbenzene	NE	NE	NA	<1.3	<1.3	<0.65	<1.3	<1.3	<0.65	<0.13	NA	<0.26	<0.13	<0.13	<0.26	<0.26	<0.13	<0.13	<0.13
N-Propylbenzene	NE	NE	NA	<1.3	<1.3	<0.65	<1.3	<1.3	<0.65	<0.13	NA	<0.26	<0.13	<0.13	<0.26	<0.26	<0.13	<0.13	<0.13
p-Isopropyltoluene	NE	NE	NA	<1.7	<1.7	<0.85	<1.7	<1.7	<0.85	<0.17	NA	<0.34	<0.17	<0.17	<0.34	<0.34	<0.17	<0.17	<0.17
sec-Butylbenzene	NE	NE	NA	<1.5	<1.5	<0.75	<1.5	<1.5	<0.75	<0.15	NA	<0.3	<0.15	<0.15	<0.30	<0.30	<0.15	<0.15	<0.15
Styrene	10	100	NA	<1	<1	<0.5	<1.0	<1.0	<0.5	<0.1	NA	<0.2	<0.1	<0.1	<0.20	<0.20	<0.1	<0.1	<0.1
tert-Butylbenzene	NE	NE	NA	<1.4	<1.4	<0.7	<1.4	<1.4	<0.7	<0.14	NA	<0.28	<0.14	<0.14	<0.28	<0.28	<0.14	<0.14	<0.14
Tetrachloroethene	0.5	5	NA	***3,800***	***4,200***	***6,500***	***5,200***	***6,300***	***1,400***	***930***	NA	***840***	***510***	***680***	***870***	***930***	***0.71 J***	<0.17	<0.17
Toluene	160	800	NA	<1.1	<1.1	<0.55	<1.1	<1.1	<0.55	<0.11	NA	<0.22	<0.11	<0.11	<0.22	<0.22	<0.11	<0.11	<0.11
trans-1,2-Dichloroethene	20	100	NA	8.5 J	5.4 J	<1.3	<2.5	<2.5	15	13	NA	8	3	3	3.3	1.9 J	<0.25	<0.25	<0.25
Trichloroethene	0.5	5	NA	***310***	***260***	***310***	***320***	***270***	***370***	***250***	NA	***200***	***92***	***96***	***110***	***100***	<0.19	<0.19	<0.19
Vinyl chloride	0.02	0.2	NA	***11***	***8.1***	***5.8***	***4.0 J***	***3.7 J***	***41***	***27***	NA	***6.8***	***0.74***	***0.72***	***0.56 J***	<0.20	<0.1	<0.1	<0.1
Xylenes, Total	400	2,000	NA	<0.68	<0.68	<0.34	<0.68	<0.68	<0.34	<0.068	NA	<0.14	<0.068	<0.068	<0.14	<0.14	<0.068	<0.068	<0.068
PAHs																			
1-Methylnaphthalene	NE	NE	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NE	NE	NA	NA	NA	NA	NA	NA	<0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	10	100	NA	NA	NA	NA	NA	NA	<0.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs																			
Aroclor1016	0.003	0.03	NA	NA	NA	NA	NA	NA	<0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	NA	NA	NA	<0.083	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	NA	NA	NA	<0.12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																			
Aroclor1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Footnotes on Page 34.

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MP-13 (continued)														MP-14		
Sample Interval (feet bls)	Preventive	Enforcement	135-139'	135-139'	135-139'	135-139'	135-139'	135-139'	163-167'	163-167'	163-167'	163-167'	163-167'	163-167'	163-167'	163-167'	70-75'	70-75'	70-75'
Sample Date	Action Limit	Standard	02/20/13	04/17/13	07/22/13	10/07/13	04/16/14	10/14/14	12/04/12	01/16/13	02/20/13	04/17/13	07/22/13	10/07/13	04/16/14	10/14/14	01/21/13	04/16/13	07/16/13
Total Metals																			
Arsenic	1	10	<0.15	NA	NA	NA	NA	NA	0.15 J	<0.15	<0.15	NA	NA	NA	NA	NA	NA	NA	NA
Barium	400	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	10	100	<0.64	NA	NA	NA	NA	NA	<0.64	1.2 J	<0.64	NA	NA	NA	NA	NA	NA	NA	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	<37	NA	NA	NA	NA	NA	***200 B***	<37	<37	NA	NA	NA	NA	NA	NA	NA	NA
Lead	1.5	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	60	300	9.7 B	NA	NA	NA	NA	NA	***100***	***66***	56 B	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.20	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals																			
Arsenic	1	10	<0.15	NA	NA	NA	NA	NA	<0.15	<0.15	<0.15	NA	NA	NA	NA	NA	NA	NA	NA
Barium	400	2,000	34	NA	NA	NA	NA	NA	70 B	45	40	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.5	5	<0.1	NA	NA	NA	NA	NA	<0.1	<0.1	<0.1	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	10	100	<0.64	NA	NA	NA	NA	NA	<0.64	<0.64	<0.64	NA	NA	NA	NA	NA	NA	NA	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	<37	NA	NA	NA	NA	NA	52 J B	49 J B	<37	NA	NA	NA	NA	NA	NA	NA	NA
Lead	1.5	15	0.63 B	NA	NA	NA	NA	NA	<0.16	<0.16	0.30 J B	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	60	300	9.5 B	NA	NA	NA	NA	NA	***100***	***66***	57 B	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.2	2	<0.071	NA	NA	NA	NA	NA	<0.071	<0.071	<0.071	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	<0.25	NA	NA	NA	NA	NA	0.61 J	0.38 J	0.35 J	NA	NA	NA	NA	NA	NA	NA	NA
Silver	10	50	<0.069	NA	NA	NA	NA	NA	<0.069	<0.069	<0.069	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

General Notes:
All concentrations in microgram per liter (µg/L).
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.

Acronyms and Abbreviations:
100 = concentration exceeds the NR 140 Wis. adm. code Preventive Action Limit
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< = constituent not detected above noted laboratory detection limit
* = data is suspect and not used in evaluation
B = compound was found in the blank and the sample
bls = below land surface
J = result is between the method detection limit and the limit of quantitation
NA = not analyzed
NE = not established
ND = not detected
PCBs = polychlorinated biphenyls
PAHs = polycyclic aromatic hydrocarbons
VOCs = volatile organic compounds

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MP-14 (continued)															
Sample Interval (feet bls)	Preventive	Enforcement	70-75'	70-75'	70-75'	70-75'	100-105'	100-105'	100-105'	100-105'	100-105'	100-105'	100-105'	135-140'	135-140'	135-140'	135-140'	135-140'	135-140'
Sample Date	Action Limit	Standard	07/22/13	10/08/13	04/14/14	10/17/14	01/21/13	04/16/13	07/16/13	07/22/13	10/08/13	04/14/14	10/17/14	01/21/13	04/16/13	07/16/13	07/22/13	10/08/13	04/14/14
VOCs																			
1,1,1,2-Tetrachloroethane	7	70	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.5	<0.25	<0.5	<0.25
1,1,2-Trichloroethane	0.5	5	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.56	<0.28	<0.56	<0.28
1,1-Dichloroethene	0.7	7	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.62	<0.31	<0.62	<0.31
1,2,4-Trimethylbenzene	96	480	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.28	<0.14	<0.28	<0.14
1,2-Dibromoethane	0.005	0.05	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.72	<0.36	<0.72	<0.36
1,2-Dichlorobenzene	60	600	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.54	<0.27	<0.54	<0.27
1,2-Dichloropropane	0.5	5	<0.2	<0.2	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.2	<0.2	<0.4	<0.2	<0.4	<0.20
1,3,5-Trimethylbenzene	96	480	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.36	<0.18	<0.36	<0.18
Benzene	0.5	5	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.15	<0.074	<0.15	<0.074
Bromoform	0.44	4.4	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.56	<0.28	<0.56	<0.28
Bromomethane	1	10	<0.31	<0.31	<0.31	<0.31 *	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31 *	<0.31	<0.31	<0.62	<0.31	<0.62	<0.31
Carbon tetrachloride	0.5	5	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.52	<0.26	<0.52	<0.26
Chloroform	0.6	6	<0.2	<0.2	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.2	<0.2	<0.4	<0.2	<0.4	<0.20
Chloromethane	3	30	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.36	<0.18	<0.36	<0.18
cis-1,2-Dichloroethene	7	70	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	***17***	***27***	***29***	***27***	***12***
Dichlorodifluoromethane	200	1,000	<0.2	<0.2	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.2	<0.2	<0.4	<0.2	<0.4	<0.20
Ethylbenzene	140	700	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.26	<0.13	<0.26	<0.13
Isopropylbenzene	NE	NE	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.28	<0.14	<0.28	<0.14
Methyl tert-butyl ether	12	60	<0.24	<0.24	<0.24	<0.24 *	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24 *	<0.24	<0.24	<0.48	<0.24	<0.48	<0.24
Methylene Chloride	0.5	5	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<1.4	<0.68	<1.4	<0.68
Naphthalene	10	100	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.32	<0.16	<0.32	<0.16
n-Butylbenzene	NE	NE	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.26	<0.13	<0.26	<0.13
N-Propylbenzene	NE	NE	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.26	<0.13	<0.26	<0.13
p-Isopropyltoluene	NE	NE	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.34	<0.17	<0.34	<0.17
sec-Butylbenzene	NE	NE	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.3	<0.15	<0.3	<0.15
Styrene	10	100	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.2	<0.1	<0.2	<0.10
tert-Butylbenzene	NE	NE	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.28	<0.14	<0.28	<0.14
Tetrachloroethene	0.5	5	<0.17	<0.17	<0.17	<0.17	***1.5***	<0.17	<0.17	<0.17	***1.7***	<0.17	***1***	***1.7***	***430***	***820***	***920***	***970***	***350***
Toluene	160	800	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.22	<0.11	<0.22	<0.11
trans-1,2-Dichloroethene	20	100	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.5	<0.25	<0.5	<0.25
Trichloroethene	0.5	5	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	0.24 J	***31***	***53***	***51***	***53***	***23***
Vinyl chloride	0.02	0.2	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.2	<0.1	***0.53 J***	<0.10
Xylenes, Total	400	2,000	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.14	<0.068	<0.14	<0.068
PAHs																			
1-Methylnaphthalene	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	10	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs																			
Aroclor1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																			
Aroclor1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Footnotes on Page 36.

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MP-14 (continued)															
Sample Interval (feet bls)	Preventive	Enforcement	70-75'	70-75'	70-75'	70-75'	100-105'	100-105'	100-105'	100-105'	100-105'	100-105'	135-140'	135-140'	135-140'	135-140'	135-140'	135-140'
Sample Date	Action Limit	Standard	07/22/13	10/08/13	04/14/14	10/17/14	01/21/13	04/16/13	07/16/13	07/22/13	10/08/13	04/14/14	10/17/14	01/21/13	04/16/13	07/16/13	07/22/13	10/08/13	04/14/14
Total Metals																			
Arsenic	1	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	400	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	10	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	1.5	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	60	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.20	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals																			
Arsenic	1	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	400	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	10	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	1.5	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	60	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

General Notes:
All concentrations in microgram per liter (µg/L).
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.

Acronyms and Abbreviations:
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
* = data is suspect and not used in evaluation
B = compound was found in the blank and the sample
bls = below land surface
J = result is between the method detection limit and the limit of quantitation
NA = not analyzed
NE = not established
ND = not detected
PCBs = polychlorinated biphenyls
PAHs = polycyclic aromatic hydrocarbons
VOCs = volatile organic compounds

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MP-14 (continued)								MP-15								
Sample Interval (feet bls)	Preventive	Enforcement	135-140'	170 - 178'	170-178'	170-178'	170-178'	170-178'	170-178'	170-178'	88-92'	88-92'	88-92'	88-92'	88-92'	88-92'	100-105'	100-105'	100-105'
Sample Date	Action Limit	Standard	10/17/14	01/21/13	04/16/13	07/16/13	07/22/13	10/08/13	04/14/14	10/17/14	01/22/13	04/15/13	07/22/13	10/08/13	04/15/14	10/16/14	01/22/13	04/15/13	07/22/13
VOCs																			
1,1,1,2-Tetrachloroethane	7	70	<0.25	<0.25	<0.25	<0.5	<0.25	<0.5	<0.50	<0.50	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
1,1,2-Trichloroethane	0.5	5	<0.28	<0.28	<0.28	<0.56	<0.28	<0.56	<0.56	<0.56	<0.28	***2.2***	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
1,1-Dichloroethene	0.7	7	<0.31	<0.31	<0.31	<0.62	<0.31	<0.62	<0.62	<0.62	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31
1,2,4-Trimethylbenzene	96	480	<0.14	<0.14	<0.14	<0.28	<0.14	<0.28	<0.28	<0.28	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
1,2-Dibromoethane	0.005	0.05	<0.36	<0.36	<0.36	<0.72	<0.36	<0.72	<0.72	<0.72	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
1,2-Dichlorobenzene	60	600	<0.27	<0.27	<0.27	<0.54	<0.27	<0.54	<0.54	<0.54	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27
1,2-Dichloropropane	0.5	5	<0.20	<0.2	<0.2	<0.4	<0.2	<0.4	<0.40	<0.40	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.2	<0.2	<0.2
1,3,5-Trimethylbenzene	96	480	<0.18	<0.18	<0.18	<0.36	<0.18	<0.36	<0.36	<0.36	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
Benzene	0.5	5	<0.074	<0.074	<0.074	<0.15	<0.074	<0.15	<0.15	<0.15	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074
Bromoform	0.44	4.4	<0.28	<0.28	<0.28	<0.56	<0.28	<0.56	<0.56	<0.56	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Bromomethane	1	10	<0.31 *	<0.31	<0.31	<0.62	<0.31	<0.62	<0.62	<0.62 *	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31
Carbon tetrachloride	0.5	5	<0.26	<0.26	<0.26	<0.52	<0.26	<0.52	<0.52	<0.52	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26
Chloroform	0.6	6	<0.20	<0.2	<0.2	<0.4	<0.2	<0.4	<0.40	<0.40	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.2	<0.2	<0.2
Chloromethane	3	30	<0.18	<0.18	<0.18	<0.36	<0.18	<0.36	<0.36	<0.36	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
cis-1,2-Dichloroethene	7	70	***8.1***	<0.12	<0.12	***22***	***21***	***22***	***19***	***24***	***7.5***	***23***	***14***	***20***	***23***	***12***	***9.3***	***37***	***68***
Dichlorodifluoromethane	200	1,000	<0.20	<0.2	<0.2	<0.4	<0.2	<0.4	<0.40	<0.40	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.2	<0.2	<0.2
Ethylbenzene	140	700	<0.13	<0.13	<0.13	<0.26	<0.13	<0.26	<0.26	<0.26	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
Isopropylbenzene	NE	NE	<0.14	<0.14	<0.14	<0.28	<0.14	<0.28	<0.28	<0.28	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
Methyl tert-butyl ether	12	60	<0.24 *	<0.24	<0.24	<0.48	<0.24	<0.48	<0.48	<0.48 *	2	0.84 J	<0.24	3.3	3.5	<0.24	2.2	1.3	<0.24
Methylene Chloride	0.5	5	<0.68	<0.68	<0.68	<1.4	<0.68	<1.4	<1.4	<1.4	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68
Naphthalene	10	100	<0.16	<0.16	<0.16	<0.32	<0.16	<0.32	<0.32	<0.32	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
n-Butylbenzene	NE	NE	<0.13	<0.13	<0.13	<0.26	<0.13	<0.26	<0.26	<0.26	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
N-Propylbenzene	NE	NE	<0.13	<0.13	<0.13	<0.26	<0.13	<0.26	<0.26	<0.26	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
p-Isopropyltoluene	NE	NE	<0.17	<0.17	<0.17	<0.34	<0.17	<0.34	<0.34	<0.34	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
sec-Butylbenzene	NE	NE	<0.15	<0.15	<0.15	<0.3	<0.15	<0.3	<0.30	<0.30	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
Styrene	10	100	<0.10	<0.1	<0.1	<0.2	<0.1	<0.2	<0.20	<0.20	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1
tert-Butylbenzene	NE	NE	<0.14	<0.14	<0.14	<0.28	<0.14	<0.28	<0.28	<0.28	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
Tetrachloroethene	0.5	5	***190***	***1.2***	***9.2***	***520***	***520***	***640***	***630***	***890***	***130***	***160***	***130***	***220***	***300***	***100***	***230***	***440***	***660***
Toluene	160	800	<0.11	<0.11	<0.11	<0.22	<0.11	<0.22	<0.22	<0.22	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11
trans-1,2-Dichloroethene	20	100	<0.25	<0.25	<0.25	<0.5	<0.25	<0.5	<0.50	<0.50	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	0.51 J
Trichloroethene	0.5	5	***16***	<0.19	***0.78***	***42***	***37***	***37***	***33***	***46***	***11***	***15***	***12***	***19***	***24***	***12***	***16***	***41***	***65***
Vinyl chloride	0.02	0.2	<0.10	<0.1	<0.1	<0.2	<0.1	<0.2	<0.20	<0.20	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1
Xylenes, Total	400	2,000	<0.068	<0.068	<0.068	<0.14	<0.068	<0.14	<0.14	<0.14	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068
PAHs																			
1-Methylnaphthalene	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	10	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs																			
Aroclor1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																			
Aroclor1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Footnotes on Page 38.

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MP-14 (continued)								MP-15								
Sample Interval (feet bls)	Preventive	Enforcement	135-140'	170 - 178'	170-178'	170-178'	170-178'	170-178'	170-178'	170-178'	88-92'	88-92'	88-92'	88-92'	88-92'	88-92'	100-105'	100-105'	100-105'
Sample Date	Action Limit	Standard	10/17/14	01/21/13	04/16/13	07/16/13	07/22/13	10/08/13	04/14/14	10/17/14	01/22/13	04/15/13	07/22/13	10/08/13	04/15/14	10/16/14	01/22/13	04/15/13	07/22/13
Total Metals																			
Arsenic	1	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	400	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	10	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	1.5	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	60	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.20	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals																			
Arsenic	1	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	400	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	10	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	1.5	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	60	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

General Notes:
All concentrations in microgram per liter (µg/L).
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.

Acronyms and Abbreviations:
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
* = data is suspect and not used in evaluation
B = compound was found in the blank and the sample
bls = below land surface
J = result is between the method detection limit and the limit of quantitation
NA = not analyzed
NE = not established
ND = not detected
PCBs = polychlorinated biphenyls
PAHs = polycyclic aromatic hydrocarbons
VOCs = volatile organic compounds

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MP-15 (continued)															
Sample Interval (feet bls)	Preventive	Enforcement	100-105'	100-105'	100-105'	120-125'	120-125'	120-125'	120-125'	120-125'	120-125'	142-146'	142-146'	142-146'	142-146'	142-146'	142-146'	177 - 187'	177-187'
Sample Date	Action Limit	Standard	10/08/13	04/15/14	10/16/14	01/22/13	04/15/13	07/22/13	10/08/13	04/15/14	10/16/14	01/22/13	04/15/13	07/22/13	10/08/13	04/15/14	10/16/14	01/22/13	04/15/13
VOCs																			
1,1,1,2-Tetrachloroethane	7	70	<0.5	<0.50	<0.50	<0.5	<0.5	<1.3	<1.3	<1.3	<1.3	<0.25	<0.25	<0.25	<0.5	<0.50	<0.50	<0.25	<0.25
1,1,2-Trichloroethane	0.5	5	<0.56	<0.56	<0.56	<0.56	<0.56	<1.4	<1.4	<1.4	<1.4	<0.28	<0.28	<0.28	<0.56	<0.56	<0.56	<0.28	<0.28
1,1-Dichloroethene	0.7	7	<0.62	<0.62	<0.62	<0.62	<0.62	<1.6	<1.6	<1.6	<1.6	<0.31	<0.31	<0.31	<0.62	<0.62	<0.62	<0.31	<0.31
1,2,4-Trimethylbenzene	96	480	<0.28	<0.28	<0.28	<0.28	<0.28	<0.7	<0.7	<0.70	<0.70	<0.14	<0.14	<0.14	<0.28	<0.28	<0.28	<0.14	<0.14
1,2-Dibromoethane	0.005	0.05	<0.72	<0.72	<0.72	<0.72	<0.72	<1.8	<1.8	<1.8	<1.8	<0.36	<0.36	<0.36	<0.72	<0.72	<0.72	<0.36	<0.36
1,2-Dichlorobenzene	60	600	<0.54	<0.54	<0.54	<0.54	<0.54	<1.4	<1.4	<1.4	<1.4	<0.27	<0.27	<0.27	<0.54	<0.54	<0.54	<0.27	<0.27
1,2-Dichloropropane	0.5	5	<0.4	<0.40	<0.40	<0.4	<0.4	<1	<1	<1.0	<1.0	<0.2	<0.2	<0.2	<0.4	<0.40	<0.40	<0.2	<0.2
1,3,5-Trimethylbenzene	96	480	<0.36	<0.36	<0.36	<0.36	<0.36	<0.9	<0.9	<0.90	<0.90	<0.18	<0.18	<0.18	<0.36	<0.36	<0.36	<0.18	<0.18
Benzene	0.5	5	<0.15	<0.15	<0.15	<0.15	<0.15	<0.37	<0.37	<0.37	<0.37	<0.074	<0.074	<0.074	<0.15	<0.15	0.37 J	<0.074	<0.074
Bromoform	0.44	4.4	<0.56	<0.56	<0.56	<0.56	<0.56	<1.4	<1.4	<1.4	<1.4	<0.28	<0.28	<0.28	<0.56	<0.56	<0.56	<0.28	<0.28
Bromomethane	1	10	<0.62	<0.62	<0.62	<0.62	<0.62	<1.6	<1.6	<1.6	<1.6	<0.31	<0.31	<0.31	<0.62	<0.62	<0.62	<0.31	<0.31
Carbon tetrachloride	0.5	5	<0.52	<0.52	<0.52	<0.52	<0.52	<1.3	<1.3	<1.3	<1.3	<0.26	<0.26	<0.26	<0.52	<0.52	<0.52	<0.26	<0.26
Chloroform	0.6	6	<0.4	<0.40	<0.40	<0.4	<0.4	<1	<1	<1.0	<1.0	<0.2	<0.2	<0.2	<0.4	<0.40	<0.40	<0.2	<0.2
Chloromethane	3	30	<0.36	<0.36	<0.36	<0.36	<0.36	<0.9	<0.9	<0.90	<0.90	<0.18	<0.18	<0.18	<0.36	<0.36	<0.36	<0.18	<0.18
cis-1,2-Dichloroethene	7	70	***76***	***96***	***83***	***200***	***230***	***250***	***220***	***230***	***260***	***9.7***	***75***	***110***	***140***	***140***	***150***	***9.5***	6.7
Dichlorodifluoromethane	200	1,000	<0.4	<0.40	<0.40	<0.4	<0.4	<1	<1	<1.0	<1.0	<0.2	<0.2	<0.2	<0.4	<0.40	<0.40	<0.2	<0.2
Ethylbenzene	140	700	<0.26	<0.26	<0.26	<0.26	<0.26	<0.65	<0.65	<0.65	<0.65	<0.13	<0.13	<0.13	<0.26	<0.26	<0.26	<0.13	<0.13
Isopropylbenzene	NE	NE	<0.28	<0.28	<0.28	<0.28	<0.28	<0.7	<0.7	<0.70	<0.70	<0.14	<0.14	<0.14	<0.28	<0.28	<0.28	<0.14	<0.14
Methyl tert-butyl ether	12	60	<0.48	<0.48	<0.48	<0.48	<0.48	<1.2	<1.2	<1.2	<1.2	2	<0.24	<0.24	<0.48	<0.48	<0.48	2.5	1.6
Methylene Chloride	0.5	5	<1.4	<1.4	<1.4	<1.4	<1.4	<3.4	<3.4	<3.4	<3.4	<0.68	<0.68	<0.68	<1.4	<1.4	<1.4	<0.68	<0.68
Naphthalene	10	100	<0.32	<0.32	<0.32	<0.32	<0.32	<0.8	<0.8	<0.80	<0.80	<0.16	<0.16	<0.16	<0.32	<0.32	<0.32	<0.16	<0.16
n-Butylbenzene	NE	NE	<0.26	<0.26	<0.26	<0.26	<0.26	<0.65	<0.65	<0.65	<0.65	<0.13	<0.13	<0.13	<0.26	<0.26	<0.26	<0.13	<0.13
N-Propylbenzene	NE	NE	<0.26	<0.26	<0.26	<0.26	<0.26	<0.65	<0.65	<0.65	<0.65	<0.13	<0.13	<0.13	<0.26	<0.26	<0.26	<0.13	<0.13
p-Isopropyltoluene	NE	NE	<0.34	<0.34	<0.34	<0.34	<0.34	<0.85	<0.85	<0.85	<0.85	<0.17	<0.17	<0.17	<0.34	<0.34	<0.34	<0.17	<0.17
sec-Butylbenzene	NE	NE	<0.3	<0.30	<0.30	<0.3	<0.3	<0.75	<0.75	<0.75	<0.75	<0.15	<0.15	<0.15	<0.3	<0.30	<0.30	<0.15	<0.15
Styrene	10	100	<0.2	<0.20	<0.20	<0.2	<0.2	<0.5	<0.5	<0.50	<0.50	<0.1	<0.1	<0.1	<0.2	<0.20	<0.20	<0.1	<0.1
tert-Butylbenzene	NE	NE	<0.28	<0.28	<0.28	<0.28	<0.28	<0.7	<0.7	<0.70	<0.70	<0.14	<0.14	<0.14	<0.28	<0.28	<0.28	<0.14	<0.14
Tetrachloroethene	0.5	5	***690***	***890***	***930***	***1,100***	***1,900***	***2,100***	***1,800***	***2,000***	***2,300***	***170***	***580***	***640***	***840***	***970***	***1,000***	***240***	***140***
Toluene	160	800	<0.22	<0.22	<0.22	<0.22	<0.22	<0.55	<0.55	<0.55	<0.55	<0.11	<0.11	<0.11	<0.22	<0.22	<0.22	<0.11	<0.11
trans-1,2-Dichloroethene	20	100	<0.5	1.2 J	<0.50	1.3 J	1.7 J	<1.3	<1.3	<1.3	<1.3	<0.25	0.86 J	0.97 J	1.4 J	1.5 J	1.3 J	<0.25	<0.25
Trichloroethene	0.5	5	***72***	***92***	***93***	***160***	***210***	***220***	***190***	***210***	***280***	***14***	***78***	***100***	***130***	***130***	***140***	***17***	***12***
Vinyl chloride	0.02	0.2	<0.2	<0.20	***0.46 J***	<0.2	***1***	***1.9 J***	<0.5	<0.50	***1.6 J***	<0.1	***0.39 J***	***0.58***	***0.76 J***	<0.20	***0.72 J***	<0.1	<0.1
Xylenes, Total	400	2,000	<0.14	<0.14	<0.14	<0.14	<0.14	<0.34	<0.34	<0.34	<0.34	<0.068	<0.068	<0.068	<0.14	<0.14	<0.14	<0.068	<0.068
PAHs																			
1-Methylnaphthalene	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	10	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs																			
Aroclor1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																			
Aroclor1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Footnotes on Page 40.

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MP-15 (continued)																
Sample Interval (feet bls)	Preventive	Enforcement	100-105'	100-105'	100-105'	120-125'	120-125'	120-125'	120-125'	120-125'	120-125'	142-146'	142-146'	142-146'	142-146'	142-146'	142-146'	177 - 187'	177-187'
Sample Date	Action Limit	Standard	10/08/13	04/15/14	10/16/14	01/22/13	04/15/13	07/22/13	10/08/13	04/15/14	10/16/14	01/22/13	04/15/13	07/22/13	10/08/13	04/15/14	10/16/14	01/22/13	04/15/13
Total Metals																			
Arsenic	1	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	400	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	10	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	1.5	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	60	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.20	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals																			
Arsenic	1	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	400	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	10	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	1.5	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	60	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

General Notes:
All concentrations in microgram per liter (µg/L).
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.

Acronyms and Abbreviations:
100 = concentration exceeds the NR 140 Wis. adm. code Preventive Action Limit
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< = constituent not detected above noted laboratory detection limit
* = data is suspect and not used in evaluation
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bls = below land surface
J = result is between the method detection limit and the limit of quantitation
NA = not analyzed
NE = not established
ND = not detected
PCBs = polychlorinated biphenyls
PAHs = polycyclic aromatic hydrocarbons
VOCs = volatile organic compounds

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MP-15 (continued)				MP-16											
Sample Interval (feet bls)	Preventive	Enforcement	177-187'	177-187'	177-187'	177-187'	80-84'	80-84'	80-84'	80-84'	80-84'	80-84'	106-116'	106-116'	106-116'	106-116'	106-116'	106-116'
Sample Date	Action Limit	Standard	07/22/13	10/08/13	04/15/14	10/16/14	01/22/13	04/16/13	07/23/13	10/09/13	04/15/14	10/16/14	01/22/13	04/16/13	07/23/13	10/09/13	04/15/14	10/16/14
VOCs																		
1,1,1,2-Tetrachloroethane	7	70	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
1,1,2-Trichloroethane	0.5	5	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
1,1-Dichloroethene	0.7	7	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31
1,2,4-Trimethylbenzene	96	480	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
1,2-Dibromoethane	0.005	0.05	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
1,2-Dichlorobenzene	60	600	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27
1,2-Dichloropropane	0.5	5	<0.2	<0.2	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20
1,3,5-Trimethylbenzene	96	480	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
Benzene	0.5	5	<0.074	<0.074	<0.074	0.23 J	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074
Bromoform	0.44	4.4	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Bromomethane	1	10	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31
Carbon tetrachloride	0.5	5	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26
Chloroform	0.6	6	<0.2	<0.2	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20
Chloromethane	3	30	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
cis-1,2-Dichloroethene	7	70	6	***16***	***17***	***31***	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	2.6	5.8	***10***	***10***	5.4	***10***
Dichlorodifluoromethane	200	1,000	<0.2	<0.2	<0.20	<0.20	<0.2	<0.2	<0.2 *	<0.2	<0.20	<0.20	<0.2	<0.2	<0.2 *	<0.2	<0.20	<0.20
Ethylbenzene	140	700	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
Isopropylbenzene	NE	NE	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
Methyl tert-butyl ether	12	60	0.86 J	0.90 J	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24
Methylene Chloride	0.5	5	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68
Naphthalene	10	100	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
n-Butylbenzene	NE	NE	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
N-Propylbenzene	NE	NE	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
p-Isopropyltoluene	NE	NE	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
sec-Butylbenzene	NE	NE	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
Styrene	10	100	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10
tert-Butylbenzene	NE	NE	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
Tetrachloroethene	0.5	5	***110***	***100***	***73***	***86***	***0.76 J***	<0.17	<0.17	***0.76 J***	***0.56 J***	<0.17	***23***	***330***	***90***	***94***	***330***	***110***
Toluene	160	800	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11
trans-1,2-Dichloroethene	20	100	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
Trichloroethene	0.5	5	***7.7***	***12***	***12***	***21***	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	***3.8***	***44***	***12***	***13***	***30***	***16***
Vinyl chloride	0.02	0.2	<0.1	***0.34 J***	<0.10	***0.39 J***	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10
Xylenes, Total	400	2,000	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068
PAHs																		
1-Methylnaphthalene	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	10	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs																		
Aroclor1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																		
Aroclor1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Footnotes on Page 42.

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MP-15 (continued)				MP-16											
Sample Interval (feet bls)	Preventive	Enforcement	177-187'	177-187'	177-187'	177-187'	80-84'	80-84'	80-84'	80-84'	80-84'	80-84'	106-116'	106-116'	106-116'	106-116'	106-116'	106-116'
Sample Date	Action Limit	Standard	07/22/13	10/08/13	04/15/14	10/16/14	01/22/13	04/16/13	07/23/13	10/09/13	04/15/14	10/16/14	01/22/13	04/16/13	07/23/13	10/09/13	04/15/14	10/16/14
Total Metals																		
Arsenic	1	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	400	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	10	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	1.5	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	60	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.20	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals																		
Arsenic	1	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	400	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	10	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	1.5	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	60	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

General Notes:
All concentrations in microgram per liter (µg/L).
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.

Acronyms and Abbreviations:
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
* = data is suspect and not used in evaluation
B = compound was found in the blank and the sample
bls = below land surface
J = result is between the method detection limit and the limit of quantitation
NA = not analyzed
NE = not established
ND = not detected
PCBs = polychlorinated biphenyls
PAHs = polycyclic aromatic hydrocarbons
VOCs = volatile organic compounds

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MP-16 (continued)											MW-17			
Sample Interval (feet bls)	Preventive	Enforcement	140-144'	140-144'	140-144'	140-144'	140-144'	140-144'	175-179'	175-179'	175-179'	175-179'	175-179'	175-179'	160-170	160-170	160-170	160-170
Sample Date	Action Limit	Standard	01/22/13	04/16/13	07/23/13	10/09/13	04/15/14	10/16/14	01/22/13	04/16/13	07/23/13	10/09/13	04/15/14	10/16/14	01/17/13	04/20/13	07/18/13	10/08/13
VOCs																		
1,1,1,2-Tetrachloroethane	7	70	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.5	<0.5	<0.25	<0.5
1,1,2-Trichloroethane	0.5	5	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.56	***11***	<0.28	<0.56
1,1-Dichloroethene	0.7	7	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.62	<0.62	<0.31	<0.62
1,2,4-Trimethylbenzene	96	480	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.28	<0.28	<0.14	<0.28
1,2-Dibromoethane	0.005	0.05	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.72	<0.72	<0.36	<0.72
1,2-Dichlorobenzene	60	600	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.54	<0.54	<0.27	<0.54
1,2-Dichloropropane	0.5	5	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.4	<0.4	<0.2	<0.4
1,3,5-Trimethylbenzene	96	480	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.36	<0.36	<0.18	<0.36
Benzene	0.5	5	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	***20***	***1.2***	<0.074	<0.15
Bromoform	0.44	4.4	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.56	<0.56	<0.28	<0.56
Bromomethane	1	10	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.62	<0.62	<0.31	<0.62
Carbon tetrachloride	0.5	5	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	***1.2 J***	<0.52	<0.26	<0.52
Chloroform	0.6	6	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	***1.8 J***	<0.4	***0.86 J***	<0.4
Chloromethane	3	30	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.36	<0.36	<0.18	<0.36
cis-1,2-Dichloroethene	7	70	1.9	1.2	<0.12	<0.12	1.4	1.4	1.9	0.99 J	<0.12	<0.12	<0.12	<0.12	3.5	1.7 J	1.6	<0.24
Dichlorodifluoromethane	200	1,000	<0.2	<0.2	<0.2 *	<0.2	<0.20	<0.20	<0.2	<0.2	<0.2 *	<0.2	<0.20	<0.20	<0.4	<0.4	<0.2	<0.4
Ethylbenzene	140	700	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.26	<0.26	<0.13	<0.26
Isopropylbenzene	NE	NE	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.28	<0.28	<0.14	<0.28
Methyl tert-butyl ether	12	60	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.48	<0.48	<0.24	<0.48
Methylene Chloride	0.5	5	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<1.4	<1.4	<0.68	<1.4
Naphthalene	10	100	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.32	<0.32	<0.16	<0.32
n-Butylbenzene	NE	NE	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.26	<0.26	<0.13	<0.26
N-Propylbenzene	NE	NE	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.26	<0.26	<0.13	<0.26
p-Isopropyltoluene	NE	NE	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.34	<0.34	<0.17	<0.34
sec-Butylbenzene	NE	NE	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.3	<0.3	<0.15	<0.3
Styrene	10	100	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	<0.2	<0.2	<0.1	<0.2
tert-Butylbenzene	NE	NE	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.28	<0.28	<0.14	<0.28
Tetrachloroethene	0.5	5	***14***	***11***	***23***	***37***	***38***	***35***	***13***	***7***	***2.2***	***3.7***	***3.8***	***4.8***	***1,300***	***790***	***470***	***800***
Toluene	160	800	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	1.8	<0.22	0.69	<0.22
trans-1,2-Dichloroethene	20	100	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	1.5 J	<0.5	0.68 J	<0.5
Trichloroethene	0.5	5	***2.1***	***2***	***3***	***6.1***	***6.1***	***6.9***	***2.2***	***1.2***	0.42 J	***0.98***	***0.87***	***0.98***	***86***	***46***	***33***	***49***
Vinyl chloride	0.02	0.2	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	<0.2	<0.2	<0.1	<0.2
Xylenes, Total	400	2,000	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	3.1	<0.14	0.56 J	<0.14
PAHs																		
1-Methylnaphthalene	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.1	NA	NA	NA
2-Methylnaphthalene	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.14	NA	NA	NA
Naphthalene	10	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.35 J	NA	NA	NA
Total PCBs																		
Aroclor1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.17	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.093	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.13	NA	NA	NA
Dissolved PCBs																		
Aroclor1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Footnotes on Page 44.

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MP-16 (continued)											MW-17			
Sample Interval (feet bls)	Preventive	Enforcement	140-144'	140-144'	140-144'	140-144'	140-144'	140-144'	175-179'	175-179'	175-179'	175-179'	175-179'	175-179'	160-170	160-170	160-170	160-170
Sample Date	Action Limit	Standard	01/22/13	04/16/13	07/23/13	10/09/13	04/15/14	10/16/14	01/22/13	04/16/13	07/23/13	10/09/13	04/15/14	10/16/14	01/17/13	04/20/13	07/18/13	10/08/13
Total Metals																		
Arsenic	1	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	400	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	10	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	1.5	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	60	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.20	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals																		
Arsenic	1	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.46 J	NA	NA	NA
Barium	400	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	45	NA	NA	NA
Cadmium	0.5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.1	NA	NA	NA
Chromium	10	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.75 J	NA	NA	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<37	NA	NA	NA
Lead	1.5	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.16	NA	NA	NA
Manganese	60	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	***180***	NA	NA	NA
Mercury	0.2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.071	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 J	NA	NA	NA
Silver	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.069	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

General Notes:
All concentrations in microgram per liter (µg/L).
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.

Acronyms and Abbreviations:
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
* = data is suspect and not used in evaluation
B = compound was found in the blank and the sample
bls = below land surface
J = result is between the method detection limit and the limit of quantitation
NA = not analyzed
NE = not established
ND = not detected
PCBs = polychlorinated biphenyls
PAHs = polycyclic aromatic hydrocarbons
VOCs = volatile organic compounds

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MW-17 (continued)		MW-18S										MW-19D			
Sample Interval (feet bls)	Preventive	Enforcement	160-170	160-170	20-30	20-30	20-30	20-30	20-30	20-30	20-30	20-30	20-30	20-30	60-90	60-90	60-90	60-90
Sample Date	Action Limit	Standard	04/22/14	10/22/14	11/28/12	12/17/12	01/15/13	02/12/13	03/12/13	04/19/13	07/17/13	10/09/13	04/22/14	10/23/14	11/29/12	01/16/13	02/11/13	03/11/13
VOCs																		
1,1,1,2-Tetrachloroethane	7	70	<0.50	<0.50	<1.3	NA	<0.25	<0.5	<1.3	<1.3	<1.3	<1.3	<0.25	<0.25	<1.3	<1.3	<1.3	<1.3
1,1,2-Trichloroethane	0.5	5	<0.56	<0.56	<1.4	NA	<0.28	<0.56	<1.4	<1.4	<1.4	<1.4	<0.28	<0.28	<1.4	<1.4	<1.4	<1.4
1,1-Dichloroethene	0.7	7	<0.62	<0.62	<1.6	NA	<0.31	<0.62	<1.6	<1.6	<1.6	<1.6	<0.31	<0.31	<1.6	<1.6	<1.6	<1.6
1,2,4-Trimethylbenzene	96	480	<0.28	<0.28	<0.7	NA	<0.14	<0.28	<0.7	<0.7	<0.7	<0.7	<0.14	<0.14	<0.7	<0.7	<0.7	<0.7
1,2-Dibromoethane	0.005	0.05	<0.72	<0.72	<1.8	NA	<0.36	<0.72	<1.8	<1.8	<1.8	<1.8	<0.36	<0.36	<1.8	<1.8	<1.8	<1.8
1,2-Dichlorobenzene	60	600	<0.54	<0.54	<1.4	NA	<0.27	<0.54	<1.4	<1.4	<1.4	<1.4	<0.27	<0.27	<1.4	<1.4	<1.4	<1.4
1,2-Dichloropropane	0.5	5	<0.40	<0.40	<1	NA	<0.2	<0.4	<1	<1	<1	<1	<0.20	<0.20	<1	<1	<1	<1
1,3,5-Trimethylbenzene	96	480	<0.36	<0.36	<0.9	NA	<0.18	<0.36	<0.9	<0.9	<0.9	<0.9	<0.18	<0.18	<0.9	<0.9	<0.9	<0.9
Benzene	0.5	5	<0.15	<0.15	***3.2***	NA	0.46 J	***1.4***	***1.9 J***	***2.2 J***	<0.37	***1.3 J***	0.38 J	0.46 J	<0.37	<0.37	<0.37	<0.37
Bromoform	0.44	4.4	<0.56	<0.56	<1.4	NA	<0.28	<0.56	<1.4	<1.4	<1.4	<1.4	<0.28	<0.28	<1.4	<1.4	<1.4	<1.4
Bromomethane	1	10	<0.62	<0.62	<1.6	NA	<0.31	<0.62	<1.6	<1.6	<1.6	<1.6	<0.31	<0.31	<1.6	<1.6	<1.6 *	<1.6
Carbon tetrachloride	0.5	5	<0.52	<0.52	<1.3	NA	<0.26	<0.52	<1.3	<1.3	<1.3	<1.3	<0.26	<0.26	<1.3	<1.3	<1.3	<1.3
Chloroform	0.6	6	***1.1 J***	***1.5 J***	***7.2***	NA	***2.3***	***4.5***	***7.5***	***6.2***	<1	***5.2***	***1.4***	***2.0***	<1	<1	<1	<1
Chloromethane	3	30	<0.36	<0.36	<0.9	NA	<0.18	<0.36	<0.9	<0.9	<0.9	<0.9	<0.18	<0.18	<0.9	<0.9	<0.9	<0.9
cis-1,2-Dichloroethene	7	70	2.7	3.4	***150***	NA	***40***	***77***	***110***	***99***	***70***	***78***	***21***	***26***	***530***	***170***	***450***	***420***
Dichlorodifluoromethane	200	1,000	<0.40	<0.40	<1	NA	<0.2	<0.4	<1	<1	<1	<1	<0.20	<0.20	<1	<1	<1	<1
Ethylbenzene	140	700	<0.26	<0.26	<0.65	NA	<0.13	<0.26	<0.65	<0.65	<0.65	<0.65	<0.13	<0.13	<0.65	<0.65	<0.65	<0.65
Isopropylbenzene	NE	NE	<0.28	<0.28	<0.7	NA	<0.14	<0.28	<0.7	<0.7	<0.7	<0.7	<0.14	<0.14	<0.7	<0.7	<0.7	<0.7
Methyl tert-butyl ether	12	60	<0.48	<0.48	<1.2	NA	<0.24	<0.48	<1.2	<1.2	<1.2	<1.2	<0.24	<0.24	<1.2	<1.2	<1.2	<1.2
Methylene Chloride	0.5	5	<1.4	<1.4	<3.4	NA	<0.68	<1.4	<3.4	<3.4	<3.4	<3.4	<0.68	<0.68	<3.4	<3.4	<3.4	<3.4
Naphthalene	10	100	<0.32	<0.32	<0.8	NA	<0.16	<0.32	<0.8	<0.8	<0.8	<0.8	<0.16	<0.16	<0.8	<0.8	<0.8	<0.8
n-Butylbenzene	NE	NE	<0.26	<0.26	<0.65	NA	<0.13	<0.26	<0.65	<0.65	<0.65	<0.65	<0.13	<0.13	<0.65	<0.65	<0.65	<0.65
N-Propylbenzene	NE	NE	<0.26	<0.26	<0.65	NA	<0.13	<0.26	<0.65	<0.65	<0.65	<0.65	<0.13	<0.13	<0.65	<0.65	<0.65	<0.65
p-Isopropyltoluene	NE	NE	<0.34	<0.34	<0.85	NA	<0.17	<0.34	<0.85	<0.85	<0.85	<0.85	<0.17	<0.17	<0.85	<0.85	<0.85	<0.85
sec-Butylbenzene	NE	NE	<0.30	<0.30	<0.75	NA	<0.15	<0.3	<0.75	<0.75	<0.75	<0.75	<0.15	<0.15	<0.75	<0.75	<0.75	<0.75
Styrene	10	100	<0.20	<0.20	<0.5	NA	<0.1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.10	<0.10	<0.5	<0.5	<0.5	<0.5
tert-Butylbenzene	NE	NE	<0.28	<0.28	<0.7	NA	<0.14	<0.28	<0.7	<0.7	<0.7	<0.7	<0.14	<0.14	<0.7	<0.7	<0.7	<0.7
Tetrachloroethene	0.5	5	***970***	***920***	***3,300***	NA	***690***	***1,900***	***2,600***	***2,600***	***2,900***	***1,800***	***520***	***520***	***2,400***	***1,700***	***2,700***	***2,100***
Toluene	160	800	<0.22	<0.22	1.1 J	NA	<0.11	<0.22	<0.55	<0.55	<0.55	<0.55	<0.11	<0.11	<0.55	<0.55	<0.55	<0.55
trans-1,2-Dichloroethene	20	100	<0.50	<0.50	7.4	NA	2.6	3.8	5.3	4.1 J	2.6 J	4.6 J	1.3	1.9	7.2	<1.3	4.4 J	5.1
Trichloroethene	0.5	5	***51***	***55***	***230***	NA	***59***	***130***	***160***	***170***	***140***	***150***	***43***	***65***	***230***	***69***	***180***	***180***
Vinyl chloride	0.02	0.2	<0.20	<0.20	<0.5	NA	<0.1	<0.2	<0.5	<0.5	<0.5	<0.5	<0.10	<0.10	***9.1***	***3.2***	***8***	***11***
Xylenes, Total	400	2,000	<0.14	<0.14	<0.34	NA	<0.068	<0.14	<0.34	<0.34	<0.34	<0.34	<0.068	<0.068	<0.34	<0.34	<0.34	<0.34
PAHs																		
1-Methylnaphthalene	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	10	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs																		
Aroclor1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																		
Aroclor1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Footnotes on Page 46.

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MW-17 (continued)		MW-18S										MW-19D			
Sample Interval (feet bls)	Preventive	Enforcement	160-170	160-170	20-30	20-30	20-30	20-30	20-30	20-30	20-30	20-30	20-30	20-30	60-90	60-90	60-90	60-90
Sample Date	Action Limit	Standard	04/22/14	10/22/14	11/28/12	12/17/12	01/15/13	02/12/13	03/12/13	04/19/13	07/17/13	10/09/13	04/22/14	10/23/14	11/29/12	01/16/13	02/11/13	03/11/13
Total Metals																		
Arsenic	1	10	NA	NA	0.58 J	0.40 J	0.35 J	0.28 J	NA	NA	NA	NA	***1.1***	NA	0.17 J	<0.15	NA	NA
Barium	400	2,000	NA	NA	NA	240	NA	NA	NA	NA	NA	NA	140	NA	NA	NA	NA	NA
Cadmium	0.5	5	NA	NA	NA	0.13 J	NA	NA	NA	NA	NA	NA	<0.15	NA	NA	NA	NA	NA
Chromium	10	100	NA	NA	<0.64	<0.64	1.3 J	<0.64	NA	NA	NA	NA	<0.63	NA	<0.64	10	NA	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	***410***	<37	55 J	<37	NA	NA	NA	NA	***1,000***	NA	<37	120 B	NA	NA
Lead	1.5	15	NA	NA	NA	<0.16	NA	NA	NA	NA	NA	NA	***4.7***	NA	NA	NA	NA	NA
Manganese	60	300	NA	NA	***1,600***	***620***	***570***	***860 B***	NA	NA	NA	NA	***2,000***	NA	24	***1,100***	NA	NA
Mercury	0.20	2	NA	NA	NA	<0.071	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.7 B	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	0.58 J	NA	NA	NA	NA	NA	NA	0.76 J	NA	NA	NA	NA	NA
Silver	10	50	NA	NA	NA	<0.069	NA	NA	NA	NA	NA	NA	<0.062	NA	NA	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	29	NA	NA	NA	NA	NA
Dissolved Metals																		
Arsenic	1	10	NA	NA	0.46 J	NA	0.34 J	0.31 J	NA	NA	NA	NA	***1.2***	NA	0.17 J	<0.15	NA	NA
Barium	400	2,000	NA	NA	200	NA	260	***790***	NA	NA	NA	NA	130	NA	63	49	NA	NA
Cadmium	0.5	5	NA	NA	<0.1	NA	<0.1	0.36 J	NA	NA	NA	NA	<0.15	NA	<0.1	<0.1	NA	NA
Chromium	10	100	NA	NA	<0.64	NA	<0.64	<0.64	NA	NA	NA	NA	<0.63	NA	<0.64	9.6	NA	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	<37	NA	<37	<37	NA	NA	NA	NA	***600***	NA	<37	<37	NA	NA
Lead	1.5	15	NA	NA	<0.16	NA	<0.16	<0.16	NA	NA	NA	NA	0.18 J	NA	<0.16	<0.16	NA	NA
Manganese	60	300	NA	NA	***1,600***	NA	***570***	***860 B***	***920***	***1,100***	***1,100***	NA	***1,900***	NA	26	***940***	NA	NA
Mercury	0.2	2	NA	NA	<0.071	NA	<0.071	<0.071	NA	NA	NA	NA	NA	NA	<0.071	***0.32***	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.6 B	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	0.43 J	NA	0.45 J	0.41 J	NA	NA	NA	NA	0.71 J	NA	0.48 J	0.97 J	NA	NA
Silver	10	50	NA	NA	<0.069	NA	<0.069	<0.069	NA	NA	NA	NA	<0.062	NA	<0.069	<0.069	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11 J	NA	NA	NA	NA	NA

General Notes:
All concentrations in microgram per liter (µg/L).
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.

Acronyms and Abbreviations:
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< = constituent not detected above noted laboratory detection limit
* = data is suspect and not used in evaluation
B = compound was found in the blank and the sample
bls = below land surface
J = result is between the method detection limit and the limit of quantitation
NA = not analyzed
NE = not established
ND = not detected
PCBs = polychlorinated biphenyls
PAHs = polycyclic aromatic hydrocarbons
VOCs = volatile organic compounds

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MW-19D (continued)						MW-19D2									
Sample Interval (feet bls)	Preventive	Enforcement	60-90	60-90	60-90	60-90	60-90	60-90	110-140	110-140	110-140	110-140	110-140	110-140	110-140	110-140	110-140	110-140
Sample Date	Action Limit	Standard	04/18/13	04/19/13	07/17/13	10/09/13	04/17/14	10/21/14	11/29/12	01/17/13	02/11/13	03/12/13	04/18/13	07/17/13	07/17/13	10/09/13	04/17/14	10/15/14
VOCs																		
1,1,1,2-Tetrachloroethane	7	70	NA	<1.3	<1.3	<1.3	<1.3	<0.50	<0.5	<0.5	<0.5	<0.5	<1.3	<0.5	<0.5	<0.5	<1.3	<0.50
1,1,2-Trichloroethane	0.5	5	NA	<1.4	<1.4	<1.4	<1.4	<0.56	<0.56	<0.56	<0.56	<0.56	<1.4	<0.56	<0.56	<0.56	<1.4	<0.56
1,1-Dichloroethene	0.7	7	NA	<1.6	<1.6	<1.6	<1.6	<0.62	<0.62	<0.62	<0.62	<0.62	<1.6	<0.62	<0.62	<0.62	<1.6	<0.62
1,2,4-Trimethylbenzene	96	480	NA	<0.7	<0.7	<0.7	<0.70	<0.28	<0.28	<0.28	<0.28	<0.28	<0.7	<0.28	<0.28	<0.28	<0.70	<0.28
1,2-Dibromoethane	0.005	0.05	NA	<1.8	<1.8	<1.8	<1.8	<0.72	<0.72	<0.72	<0.72	<0.72	<1.8	<0.72	<0.72	<0.72	<1.8	<0.72
1,2-Dichlorobenzene	60	600	NA	<1.4	<1.4	<1.4	<1.4	<0.54	<0.54	<0.54	<0.54	<0.54	<1.4	<0.54	<0.54	<0.54	<1.4	<0.54
1,2-Dichloropropane	0.5	5	NA	<1	<1	<1	<1.0	<0.40	<0.4	<0.4	<0.4	<0.4	<1	<0.4	<0.4	<0.4	<1.0	<0.40
1,3,5-Trimethylbenzene	96	480	NA	<0.9	<0.9	<0.9	<0.90	<0.36	<0.36	<0.36	<0.36	<0.36	<0.9	<0.36	<0.36	<0.36	<0.90	<0.36
Benzene	0.5	5	NA	<0.37	<0.37	<0.37	<0.37	<0.15	<0.15	<0.15	<0.15	<0.15	<0.37	<0.15	<0.15	<0.15	<0.37	<0.15
Bromoform	0.44	4.4	NA	<1.4	<1.4	<1.4	<1.4	<0.56	<0.56	<0.56	<0.56	<0.56	<1.4	<0.56	<0.56	<0.56	<1.4	<0.56
Bromomethane	1	10	NA	<1.6	<1.6	<1.6	<1.6	<0.62	<0.62	<0.62	<0.62 *	<0.62	<1.6	<0.62	<0.62	<0.62	<1.6	<0.62 *
Carbon tetrachloride	0.5	5	NA	<1.3	<1.3	<1.3	<1.3	<0.52	<0.52	<0.52	<0.52	<0.52	<1.3	<0.52	<0.52	<0.52	<1.3	<0.52
Chloroform	0.6	6	NA	<1	<1	<1	<1.0	<0.40	<0.4	<0.4	<0.4	<0.4	<1	<0.4	<0.4	<0.4	<1.0	<0.40
Chloromethane	3	30	NA	<0.9	<0.9	<0.9	<0.90	<0.36	<0.36	<0.36	<0.36	<0.36	<0.9	<0.36	<0.36	<0.36	<0.90	<0.36
cis-1,2-Dichloroethene	7	70	NA	***520***	***540***	***300***	***49***	***240***	***250***	***320***	***270***	***260***	***200***	<0.24	***98***	***120***	***330***	6.8
Dichlorodifluoromethane	200	1,000	NA	<1	<1	<1	<1.0	<0.40	<0.4	<0.4	<0.4	<0.4	<1	<0.4	<0.4	<0.4	<1.0	<0.40
Ethylbenzene	140	700	NA	<0.65	<0.65	<0.65	<0.65	<0.26	<0.26	<0.26	<0.26	<0.26	<0.65	<0.26	<0.26	<0.26	<0.65	<0.26
Isopropylbenzene	NE	NE	NA	<0.7	<0.7	<0.7	<0.70	<0.28	<0.28	<0.28	<0.28	<0.28	<0.7	<0.28	<0.28	<0.28	<0.70	<0.28
Methyl tert-butyl ether	12	60	NA	<1.2	<1.2	<1.2	<1.2	<0.48	<0.48	<0.48	<0.48	<0.48	<1.2	<0.48	<0.48	<0.48	<1.2	<0.48
Methylene Chloride	0.5	5	NA	<3.4	<3.4	<3.4	<3.4	<1.4	<1.4	<1.4	<1.4	<1.4	<3.4	<1.4	<1.4	<1.4	<3.4	<1.4
Naphthalene	10	100	NA	<0.8	<0.8	<0.8	<0.80	<0.32	<0.32	<0.32	<0.32	<0.32	<0.8	<0.32	<0.32	<0.32	<0.80	<0.32
n-Butylbenzene	NE	NE	NA	<0.65	<0.65	<0.65	<0.65	<0.26	<0.26	<0.26	<0.26	<0.26	<0.65	<0.26	<0.26	<0.26	<0.65	<0.26
N-Propylbenzene	NE	NE	NA	<0.65	<0.65	<0.65	<0.65	<0.26	<0.26	<0.26	<0.26	<0.26	<0.65	<0.26	<0.26	<0.26	<0.65	<0.26
p-Isopropyltoluene	NE	NE	NA	<0.85	<0.85	<0.85	<0.85	<0.34	<0.34	<0.34	<0.34	<0.34	<0.85	<0.34	<0.34	<0.34	<0.85	<0.34
sec-Butylbenzene	NE	NE	NA	<0.75	<0.75	<0.75	<0.75	<0.30	<0.3	<0.3	<0.3	<0.3	<0.75	<0.3	<0.3	<0.3	<0.75	<0.30
Styrene	10	100	NA	<0.5	<0.5	<0.5	<0.50	<0.20	<0.2	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	<0.50	<0.20
tert-Butylbenzene	NE	NE	NA	<0.7	<0.7	<0.7	<0.70	<0.28	<0.28	<0.28	<0.28	<0.28	<0.7	<0.28	<0.28	<0.28	<0.70	<0.28
Tetrachloroethene	0.5	5	NA	***2,200***	***2,700***	***1,500***	***1,400***	***1,500***	***680***	***1,200***	***1,300***	***1,400***	***1,000***	***820***	***1,200***	***950***	***1,900***	***620***
Toluene	160	800	NA	<0.55	<0.55	<0.55	<0.55	<0.22	<0.22	<0.22	<0.22	<0.22	<0.55	<0.22	<0.22	<0.22	<0.55	<0.22
trans-1,2-Dichloroethene	20	100	NA	6.3	8.1	4.1 J	<1.3	3.1	3.4	4.9	4.2	4.2	2.6 J	<0.5	<0.5	<0.5	5	<0.50
Trichloroethene	0.5	5	NA	***200***	***240***	***150***	***68***	***140***	***110***	***160***	***150***	***150***	***130***	<0.38	***110***	***120***	***170***	***11***
Vinyl chloride	0.02	0.2	NA	***18***	***20***	***6.6***	<0.50	***4.5***	***0.93 J***	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2	***7.9***	<0.20
Xylenes, Total	400	2,000	NA	<0.34	<0.34	<0.34	<0.34	<0.14	<0.14	<0.14	<0.14	<0.14	<0.34	<0.14	<0.14	<0.14	<0.34	<0.14
PAHs																		
1-Methylnaphthalene	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	10	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs																		
Aroclor1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																		
Aroclor1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Footnotes on Page 48.

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MW-19D (continued)						MW-19D2									
Sample Interval (feet bls)	Preventive	Enforcement	60-90	60-90	60-90	60-90	60-90	60-90	110-140	110-140	110-140	110-140	110-140	110-140	110-140	110-140	110-140	110-140
Sample Date	Action Limit	Standard	04/18/13	04/19/13	07/17/13	10/09/13	04/17/14	10/21/14	11/29/12	01/17/13	02/11/13	03/12/13	04/18/13	07/17/13	07/17/13	10/09/13	04/17/14	10/15/14
Total Metals																		
Arsenic	1	10	NA	NA	NA	NA	NA	NA	0.25 J	***1.3 J***	0.21 J	NA	NA	NA	NA	NA	NA	NA
Barium	400	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	10	100	NA	NA	NA	NA	NA	NA	1.4 J	<3.2	<0.64	NA	NA	NA	NA	NA	NA	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	NA	NA	NA	NA	50 J B	***1,800***	55 J	NA	NA	NA	NA	NA	NA	NA
Lead	1.5	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	60	300	NA	NA	NA	NA	NA	NA	***330***	***1,800***	***270 B***	NA	NA	NA	NA	NA	NA	NA
Mercury	0.20	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals																		
Arsenic	1	10	NA	NA	NA	NA	NA	NA	0.27 J	0.95 J	0.18 J	NA	NA	NA	NA	NA	NA	NA
Barium	400	2,000	NA	NA	NA	NA	NA	NA	130	***550***	88	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.5	5	NA	NA	NA	NA	NA	NA	<0.1	***0.58 J***	0.13 J	NA	NA	NA	NA	NA	NA	NA
Chromium	10	100	NA	NA	NA	NA	NA	NA	1.1 J	<3.2	<0.64	NA	NA	NA	NA	NA	NA	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	NA	NA	NA	NA	<37	<180	<37	NA	NA	NA	NA	NA	NA	NA
Lead	1.5	15	NA	NA	NA	NA	NA	NA	0.42 J	<0.78	0.21 J	NA	NA	NA	NA	NA	NA	NA
Manganese	60	300	19 B	NA	12	NA	NA	NA	***290***	***1,700***	***250 B***	***150***	***92 B***	***4,700***	NA	NA	NA	NA
Mercury	0.2	2	NA	NA	NA	NA	NA	NA	0.12 J	NA	<0.071	NA	NA	NA	NA	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	NA	NA	NA	0.75 J	2.1 J	0.46 J	NA	NA	NA	NA	NA	NA	NA
Silver	10	50	NA	NA	NA	NA	NA	NA	<0.069	<0.34	<0.069	NA	NA	NA	NA	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

General Notes:
All concentrations in microgram per liter (µg/L).
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.

Acronyms and Abbreviations:
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
* = data is suspect and not used in evaluation
B = compound was found in the blank and the sample
bls = below land surface
J = result is between the method detection limit and the limit of quantitation
NA = not analyzed
NE = not established
ND = not detected
PCBs = polychlorinated biphenyls
PAHs = polycyclic aromatic hydrocarbons
VOCs = volatile organic compounds

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MW-20D									MW-20D2						
Sample Interval (feet bls)	Preventive	Enforcement	60-90	60-90	60-90	60-90	60-90	60-90	60-90	60-90	60-90	110-140	110-140	110-140	110-140	110-140	110-140	110-140
Sample Date	Action Limit	Standard	11/29/12	01/16/13	02/12/13	03/12/13	04/18/13	07/17/13	10/09/13	04/15/14	10/22/14	11/29/12	01/16/13	02/12/13	03/12/13	04/18/13	07/17/13	10/15/13
VOCs																		
1,1,1,2-Tetrachloroethane	7	70	<1.3	<0.25	<0.25	<0.25	<1.3	<0.5	<1.3	<0.50	<0.50	<0.5	<0.25	<0.25	<0.25	<1.3	<0.25	<0.25
1,1,2-Trichloroethane	0.5	5	<1.4	<0.28	<0.28	<0.28	<1.4	<0.56	<1.4	<0.56	<0.56	<0.56	<0.28	<0.28	<0.28	<1.4	<0.28	<0.28
1,1-Dichloroethene	0.7	7	<1.6	<0.31	<0.31	<0.31	<1.6	<0.62	<1.6	<0.62	<0.62	<0.62	<0.31	<0.31	<0.31	<1.6	<0.31	<0.31
1,2,4-Trimethylbenzene	96	480	<0.7	<0.14	<0.14	<0.14	<0.7	<0.28	<0.7	<0.28	<0.28	<0.28	<0.14	<0.14	<0.14	<0.7	<0.14	<0.14
1,2-Dibromoethane	0.005	0.05	<1.8	<0.36	<0.36	<0.36	<1.8	<0.72	<1.8	<0.72	<0.72	<0.72	<0.36	<0.36	<0.36	<1.8	<0.36	<0.36
1,2-Dichlorobenzene	60	600	<1.4	<0.27	<0.27	<0.27	<1.4	<0.54	<1.4	<0.54	<0.54	<0.54	<0.27	<0.27	<0.27	<1.4	<0.27	<0.27
1,2-Dichloropropane	0.5	5	<1	<0.2	<0.2	<0.2	<1	<0.4	<1	<0.40	<0.40	<0.4	<0.2	<0.2	<0.2	<1	<0.2	<0.2
1,3,5-Trimethylbenzene	96	480	<0.9	<0.18	<0.18	<0.18	<0.9	<0.36	<0.9	<0.36	<0.36	<0.36	<0.18	<0.18	<0.18	<0.9	<0.18	<0.18
Benzene	0.5	5	<0.37	<0.074	<0.074	<0.074	<0.37	<0.15	<0.37	<0.15	<0.15	<0.15	<0.074	0.19 J	<0.074	<0.37	<0.074	<0.074
Bromoform	0.44	4.4	<1.4	<0.28	<0.28	<0.28	<1.4	<0.56	<1.4	<0.56	<0.56	<0.56	<0.28	<0.28	<0.28	<1.4	<0.28	<0.28
Bromomethane	1	10	<1.6	<0.31	<0.31	<0.31	<1.6	<0.62	<1.6	<0.62	<0.62	<0.62	<0.31	<0.31	<0.31	<1.6	<0.31	<0.31
Carbon tetrachloride	0.5	5	<1.3	<0.26	<0.26	<0.26	<1.3	<0.52	<1.3	<0.52	<0.52	<0.52	<0.26	<0.26	<0.26	<1.3	<0.26	<0.26
Chloroform	0.6	6	<1	<0.2	<0.2	<0.2	<1	<0.4	<1	<0.40	<0.40	<0.4	0.47 J	<0.2	<0.2	<1	<0.2	<0.2
Chloromethane	3	30	<0.9	<0.18	<0.18	<0.18	<0.9	<0.36	<0.9	<0.36	<0.36	<0.36	<0.18	<0.18	<0.18	<0.9	<0.18	<0.18
cis-1,2-Dichloroethene	7	70	***370***	0.69 J	***20***	***39***	***220***	***180***	***170***	***140***	***200***	***330***	<0.12	3	2.8	***30***	<0.12	1.4
Dichlorodifluoromethane	200	1,000	<1	<0.2	<0.2	<0.2	<1	<0.4	<1	<0.40	<0.40	<0.4	<0.2	<0.2	<0.2	<1	<0.2	<0.2
Ethylbenzene	140	700	<0.65	<0.13	<0.13	<0.13	<0.65	<0.26	<0.65	<0.26	<0.26	<0.26	<0.13	<0.13	<0.13	<0.65	<0.13	<0.13
Isopropylbenzene	NE	NE	<0.7	<0.14	<0.14	<0.14	<0.7	<0.28	<0.7	<0.28	<0.28	<0.28	<0.14	<0.14	<0.14	<0.7	<0.14	<0.14
Methyl tert-butyl ether	12	60	<1.2	<0.24	<0.24	<0.24	<1.2	<0.48	<1.2	<0.48	<0.48	<0.48	<0.24	<0.24	<0.24	<1.2	<0.24	<0.24
Methylene Chloride	0.5	5	<3.4	<0.68	<0.68	<0.68	<3.4	<1.4	<3.4	<1.4	<1.4	<1.4	<0.68	<0.68	<0.68	<3.4	<0.68	<0.68
Naphthalene	10	100	<0.8	<0.16	<0.16	<0.16	<0.8	<0.32	<0.8	<0.32	<0.32	<0.32	<0.16	<0.16	<0.16	<0.8	<0.16	<0.16
n-Butylbenzene	NE	NE	<0.65	<0.13	<0.13	<0.13	<0.65	<0.26	<0.65	<0.26	<0.26	<0.26	<0.13	<0.13	<0.13	<0.65	<0.13	<0.13
N-Propylbenzene	NE	NE	<0.65	<0.13	<0.13	<0.13	<0.65	<0.26	<0.65	<0.26	<0.26	<0.26	<0.13	<0.13	<0.13	<0.65	<0.13	<0.13
p-Isopropyltoluene	NE	NE	<0.85	<0.17	<0.17	<0.17	<0.85	<0.34	<0.85	<0.34	<0.34	<0.34	<0.17	<0.17	<0.17	<0.85	<0.17	<0.17
sec-Butylbenzene	NE	NE	<0.75	<0.15	<0.15	<0.15	<0.75	<0.3	<0.75	<0.30	<0.30	<0.3	<0.15	<0.15	<0.15	<0.75	<0.15	<0.15
Styrene	10	100	<0.5	<0.1	<0.1	<0.1	<0.5	<0.2	<0.5	<0.20	<0.20	<0.2	<0.1	<0.1	<0.1	<0.5	<0.1	<0.1
tert-Butylbenzene	NE	NE	<0.7	<0.14	<0.14	<0.14	<0.7	<0.28	<0.7	<0.28	<0.28	<0.28	<0.14	<0.14	<0.14	<0.7	<0.14	<0.14
Tetrachloroethene	0.5	5	***1,600***	***190***	***690***	***650***	***1,100***	***1,000***	***1,200***	***780***	***1,100***	***1,300***	***190***	***700***	***490***	***1,100***	***53***	***380***
Toluene	160	800	<0.55	0.45 J	<0.11	<0.11	<0.55	<0.22	<0.55	<0.22	<0.22	<0.22	0.34 J	<0.11	<0.11	<0.55	<0.11	<0.11
trans-1,2-Dichloroethene	20	100	5	<0.25	<0.25	<0.25	<1.3	2.2	<1.3	2	2.6	4.3	<0.25	<0.25	<0.25	<1.3	<0.25	<0.25
Trichloroethene	0.5	5	***170***	***0.54***	***20***	***29***	***100***	***100***	***89***	***83***	***110***	***150***	<0.19	***7.9***	***5.3***	***41***	<0.19	***4.5***
Vinyl chloride	0.02	0.2	***3.2***	<0.1	<0.1	<0.1	***1.0 J***	<0.2	<0.5	***0.76 J***	***2.7***	***1.7***	<0.1	<0.1	<0.1	<0.5	<0.1	<0.1
Xylenes, Total	400	2,000	<0.34	<0.068	<0.068	<0.068	<0.34	<0.14	<0.34	<0.14	<0.14	<0.14	<0.068	<0.068	<0.068	<0.34	<0.068	<0.068
PAHs																		
1-Methylnaphthalene	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	10	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs																		
Aroclor1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																		
Aroclor1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Footnotes on Page 50.

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MW-20D									MW-20D2						
Sample Interval (feet bls)	Preventive	Enforcement	60-90	60-90	60-90	60-90	60-90	60-90	60-90	60-90	60-90	110-140	110-140	110-140	110-140	110-140	110-140	110-140
Sample Date	Action Limit	Standard	11/29/12	01/16/13	02/12/13	03/12/13	04/18/13	07/17/13	10/09/13	04/15/14	10/22/14	11/29/12	01/16/13	02/12/13	03/12/13	04/18/13	07/17/13	10/15/13
Total Metals																		
Arsenic	1	10	0.24 J	<0.74	NA	NA	NA	NA	NA	NA	NA	0.26 J	<0.74	NA	NA	NA	NA	NA
Barium	400	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	10	100	<0.64	***100***	NA	NA	NA	NA	NA	NA	NA	<0.64	***39***	NA	NA	NA	NA	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	<37	<180	NA	NA	NA	NA	NA	NA	NA	<37	<180	NA	NA	NA	NA	NA
Lead	1.5	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	60	300	27	***35,000***	NA	NA	NA	NA	NA	NA	NA	50	***140,000***	NA	NA	NA	NA	NA
Mercury	0.20	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals																		
Arsenic	1	10	0.18 J	<0.74	NA	NA	NA	NA	NA	NA	NA	0.27 J	<0.74	NA	NA	NA	NA	NA
Barium	400	2,000	59	25	NA	NA	NA	NA	NA	NA	NA	170	28	NA	NA	NA	NA	NA
Cadmium	0.5	5	<0.1	<0.52	NA	NA	NA	NA	NA	NA	NA	<0.1	<0.52	NA	NA	NA	NA	NA
Chromium	10	100	<0.64	***100***	NA	NA	NA	NA	NA	NA	NA	<0.64	***42***	NA	NA	NA	NA	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	<37	<180	NA	NA	NA	NA	NA	NA	NA	<37	<180	NA	NA	NA	NA	NA
Lead	1.5	15	<0.16	***4***	NA	NA	NA	NA	NA	NA	NA	<0.16	<0.78	NA	NA	NA	NA	NA
Manganese	60	300	25	***34,000***	NA	NA	NA	***79***	NA	NA	NA	16	***170,000***	NA	NA	NA	NA	NA
Mercury	0.2	2	<0.071	***0.65***	NA	NA	NA	NA	NA	NA	NA	0.10 J	0.16 J	NA	NA	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	0.71 J	3.0 J	NA	NA	NA	NA	NA	NA	NA	1.2 J	3.8 J	NA	NA	NA	NA	NA
Silver	10	50	<0.069	<0.34	NA	NA	NA	NA	NA	NA	NA	<0.069	<0.34	NA	NA	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

General Notes:
All concentrations in microgram per liter (µg/L).
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.

Acronyms and Abbreviations:
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
* = data is suspect and not used in evaluation
B = compound was found in the blank and the sample
bls = below land surface
J = result is between the method detection limit and the limit of quantitation
NA = not analyzed
NE = not established
ND = not detected
PCBs = polychlorinated biphenyls
PAHs = polycyclic aromatic hydrocarbons
VOCs = volatile organic compounds

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MW-20D2 (continued)		MW-21D									MW-21D2				
Sample Interval (feet bls)	Preventive	Enforcement	110-140	110-140	60-90	60-90	60-90	60-90	60-90	60-90	60-90	60-90	60-90	110-170	110-170	110-170	110-170	110-170
Sample Date	Action Limit	Standard	04/15/14	10/22/14	11/28/12	01/17/13	02/14/13	03/12/13	04/17/13	07/18/13	10/10/13	04/15/14	10/23/14	11/28/12	01/17/13	02/14/13	03/12/13	04/17/13
VOCs																		
1,1,1,2-Tetrachloroethane	7	70	<1.3	<0.50	<0.5	<0.25	<0.5	<0.5	<1.3	<1.3	<1.3	<1.3	<0.25	<1.3	<0.25	<1.3	<1.3	<2.5
1,1,2-Trichloroethane	0.5	5	<1.4	<0.56	<0.56	<0.28	<0.56	<0.56	<1.4	<1.4	<1.4	<1.4	<0.28	<1.4	***1.4***	<1.4	<1.4	<2.8
1,1-Dichloroethene	0.7	7	<1.6	<0.62	<0.62	<0.31	<0.62	<0.62	<1.6	<1.6	<1.6	<1.6	<0.31	<1.6	<0.31	<1.6	<1.6	<3.1
1,2,4-Trimethylbenzene	96	480	<0.70	<0.28	<0.28	<0.14	<0.28	<0.28	<0.7	<0.7	<0.7	<0.70	<0.14	<0.7	<0.14	<0.7	<0.7	<1.4
1,2-Dibromoethane	0.005	0.05	<1.8	<0.72	<0.72	<0.36	<0.72	<0.72	<1.8	<1.8	<1.8	<1.8	<0.36	<1.8	<0.36	<1.8	<1.8	<3.6
1,2-Dichlorobenzene	60	600	<1.4	<0.54	<0.54	<0.27	<0.54	<0.54	<1.4	<1.4	<1.4	<1.4	<0.27	<1.4	<0.27	<1.4	<1.4	<2.7
1,2-Dichloropropane	0.5	5	<1.0	<0.40	<0.4	<0.2	<0.4	<0.4	<1	<1	<1	<1.0	<0.20	<1	<0.2	<1	<1	<2
1,3,5-Trimethylbenzene	96	480	<0.90	<0.36	<0.36	<0.18	<0.36	<0.36	<0.9	<0.9	<0.9	<0.90	<0.18	<0.9	<0.18	<0.9	<0.9	<1.8
Benzene	0.5	5	<0.37	<0.15	<0.15	<0.074	<0.15	<0.15	<0.37	<0.37	<0.37	<0.37	0.33 J	<0.37	0.25 J	<0.37	<0.37	<0.74
Bromoform	0.44	4.4	<1.4	<0.56	<0.56	<0.28	<0.56	<0.56	<1.4	<1.4	<1.4	<1.4	<0.28	<1.4	<0.28	<1.4	<1.4	<2.8
Bromomethane	1	10	<1.6	<0.62	<0.62	<0.31	<0.62 *	<0.62	<1.6	<1.6	<1.6	<1.6	<0.31	<1.6	<0.31	<1.6 *	<1.6	<3.1
Carbon tetrachloride	0.5	5	<1.3	<0.52	<0.52	<0.26	<0.52	<0.52	<1.3	<1.3	<1.3	<1.3	<0.26	<1.3	<0.26	<1.3	<1.3	<2.6
Chloroform	0.6	6	<1.0	<0.40	<0.4	<0.2	<0.4	<0.4	<1	<1	<1	<1.0	***0.70 J***	<1	<0.2	<1	<1	<2
Chloromethane	3	30	<0.90	<0.36	<0.36	<0.18	<0.36	<0.36	<0.9	<0.9	<0.9	<0.90	<0.18	<0.9	<0.18	<0.9	<0.9	<1.8
cis-1,2-Dichloroethene	7	70	<0.60	***12***	***380***	***85***	***270***	***310***	***310***	***370***	***360***	***320***	***230***	***300***	<0.12	<0.6	<0.6	***190***
Dichlorodifluoromethane	200	1,000	<1.0	<0.40	<0.4	<0.2	<0.4	<0.4	<1	<1	<1	<1.0	<0.20	<1	<0.2	<1	<1	<2
Ethylbenzene	140	700	<0.65	<0.26	<0.26	0.43 J	<0.26	<0.26	<0.65	<0.65	<0.65	<0.65	<0.13	<0.65	0.62	<0.65	<0.65	<1.3
Isopropylbenzene	NE	NE	<0.70	<0.28	<0.28	<0.14	<0.28	<0.28	<0.7	<0.7	<0.7	<0.70	<0.14	<0.7	<0.14	<0.7	<0.7	<1.4
Methyl tert-butyl ether	12	60	<1.2	<0.48	<0.48	<0.24	<0.48	<0.48	<1.2	<1.2	<1.2	<1.2	<0.24	<1.2	<0.24	<1.2	<1.2	<2.4
Methylene Chloride	0.5	5	<3.4	<1.4	<1.4	<0.68	<1.4	<1.4	<3.4	<3.4	<3.4	<3.4	<0.68	<3.4	<0.68	<3.4	<3.4	<6.8
Naphthalene	10	100	<0.80	<0.32	<0.32	<0.16	<0.32	<0.32	<0.8	<0.8	<0.8	<0.80	<0.16	<0.8	<0.16	<0.8	<0.8	<1.6
n-Butylbenzene	NE	NE	<0.65	<0.26	<0.26	<0.13	<0.26	<0.26	<0.65	<0.65	<0.65	<0.65	<0.13	<0.65	<0.13	<0.65	<0.65	<1.3
N-Propylbenzene	NE	NE	<0.65	<0.26	<0.26	<0.13	<0.26	<0.26	<0.65	<0.65	<0.65	<0.65	<0.13	<0.65	<0.13	<0.65	<0.65	<1.3
p-Isopropyltoluene	NE	NE	<0.85	<0.34	<0.34	<0.17	<0.34	<0.34	<0.85	<0.85	<0.85	<0.85	<0.17	<0.85	<0.17	<0.85	<0.85	<1.7
sec-Butylbenzene	NE	NE	<0.75	<0.30	<0.3	<0.15	<0.3	<0.3	<0.75	<0.75	<0.75	<0.75	<0.15	<0.75	<0.15	<0.75	<0.75	<1.5
Styrene	10	100	<0.50	<0.20	<0.2	<0.1	<0.2	<0.2	<0.5	<0.5	<0.5	<0.50	<0.10	<0.5	<0.1	<0.5	<0.5	<1
tert-Butylbenzene	NE	NE	<0.70	<0.28	<0.28	<0.14	<0.28	<0.28	<0.7	<0.7	<0.7	<0.70	<0.14	<0.7	<0.14	<0.7	<0.7	<1.4
Tetrachloroethene	0.5	5	***1,600***	***740***	***1,200***	***700***	***1,600***	***1,500***	***1,100***	***1,700***	***1,600***	***1,800***	***1,200***	***2,600***	***1,200***	***3,900***	***2,200***	***3,500***
Toluene	160	800	<0.55	<0.22	<0.22	0.38 J	<0.22	<0.22	<0.55	<0.55	<0.55	<0.55	<0.11	<0.55	0.48 J	<0.55	<0.55	<1.1
trans-1,2-Dichloroethene	20	100	<1.3	<0.50	5.1	<0.25	<0.5	2.9	<1.3	5.2	6	5	4.1	2.7 J	<0.25	<1.3	<1.3	<2.5
Trichloroethene	0.5	5	***2.7***	***11***	***180***	***23***	***130***	***160***	***140***	***180***	***160***	***180***	***170***	***160***	<0.19	***11***	***14***	***150***
Vinyl chloride	0.02	0.2	<0.50	<0.20	***1.4***	<0.1	<0.2	<0.2	<0.5	<0.5	<0.5	***1.5 J***	***1.3***	<0.5	<0.1	<0.5	<0.5	<1
Xylenes, Total	400	2,000	<0.34	<0.14	<0.14	2.5	<0.14	<0.14	<0.34	<0.34	<0.34	<0.34	<0.068	<0.34	4.3	<0.34	<0.34	<0.68
PAHs																		
1-Methylnaphthalene	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	10	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs																		
Aroclor1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																		
Aroclor1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Footnotes on Page 52.

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MW-20D2 (continued)		MW-21D									MW-21D2				
Sample Interval (feet bls)	Preventive	Enforcement	110-140	110-140	60-90	60-90	60-90	60-90	60-90	60-90	60-90	60-90	60-90	110-170	110-170	110-170	110-170	110-170
Sample Date	Action Limit	Standard	04/15/14	10/22/14	11/28/12	01/17/13	02/14/13	03/12/13	04/17/13	07/18/13	10/10/13	04/15/14	10/23/14	11/28/12	01/17/13	02/14/13	03/12/13	04/17/13
Total Metals																		
Arsenic	1	10	NA	NA	0.20 J	<0.74	NA	NA	NA	NA	NA	NA	NA	0.29 J	<0.74	NA	NA	NA
Barium	400	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	10	100	NA	NA	<0.64	***22 J***	NA	NA	NA	NA	NA	NA	NA	6.5	***40***	NA	NA	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	<37	<180	NA	NA	NA	NA	NA	NA	NA	***460***	<180	NA	NA	NA
Lead	1.5	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	60	300	NA	NA	***74***	***6,000***	NA	NA	NA	NA	NA	NA	NA	***450***	***340,000***	NA	NA	NA
Mercury	0.20	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals																		
Arsenic	1	10	NA	NA	0.19 J	<0.74	NA	NA	NA	NA	NA	NA	NA	0.22 J	<0.74	NA	NA	NA
Barium	400	2,000	NA	NA	75	26	NA	NA	NA	NA	NA	NA	NA	100	37	NA	NA	NA
Cadmium	0.5	5	NA	NA	<0.1	<0.52	NA	NA	NA	NA	NA	NA	NA	<0.1	<0.52	NA	NA	NA
Chromium	10	100	NA	NA	<0.64	***23 J***	NA	NA	NA	NA	NA	NA	NA	5.6	***45***	NA	NA	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	<37	<180	NA	NA	NA	NA	NA	NA	NA	<37	<180	NA	NA	NA
Lead	1.5	15	NA	NA	<0.16	<0.78	NA	NA	NA	NA	NA	NA	NA	<0.16	<0.78	NA	NA	NA
Manganese	60	300	NA	NA	***75***	***6,100***	NA	NA	NA	4	NA	NA	NA	***410***	***340,000***	NA	NA	NA
Mercury	0.2	2	NA	NA	0.16 J B	NA	NA	NA	NA	NA	NA	NA	NA	0.18 J B	NA	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	<0.25	<1.3	NA	NA	NA	NA	NA	NA	NA	0.37 J	5.4 J	NA	NA	NA
Silver	10	50	NA	NA	0.12 J	<0.34	NA	NA	NA	NA	NA	NA	NA	<0.069	<0.34	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

General Notes:
All concentrations in microgram per liter (µg/L).
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.

Acronyms and Abbreviations:
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< = constituent not detected above noted laboratory detection limit
* = data is suspect and not used in evaluation
B = compound was found in the blank and the sample
bls = below land surface
J = result is between the method detection limit and the limit of quantitation
NA = not analyzed
NE = not established
ND = not detected
PCBs = polychlorinated biphenyls
PAHs = polycyclic aromatic hydrocarbons
VOCs = volatile organic compounds

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MW-21D2 (continued)				MW-22S							MW-22D					
Sample Interval (feet bls)	Preventive	Enforcement	110-170	110-170	110-170	110-170	24-35	24-35	24-35	24-35	24-35	24-35	24-35	45-50	45-50	45-50	45-50	45-50	45-50
Sample Date	Action Limit	Standard	07/18/13	10/15/13	04/15/14	10/23/14	01/15/13	03/07/13	04/19/13	07/16/13	10/10/13	04/18/14	10/20/14	01/15/13	03/08/13	04/19/13	07/16/13	10/10/13	04/18/14
VOCs																			
1,1,1,2-Tetrachloroethane	7	70	<1.3	<0.5	<1.3	<0.25	<0.25	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	NA	<0.25	<0.25	<0.25	<0.25
1,1,2-Trichloroethane	0.5	5	<1.4	<0.56	<1.4	<0.28	<0.28	NA	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	NA	<0.28	<0.28	<0.28	<0.28
1,1-Dichloroethene	0.7	7	<1.6	<0.62	<1.6	<0.31	<0.31	NA	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	NA	<0.31	<0.31	<0.31	<0.31
1,2,4-Trimethylbenzene	96	480	<0.7	<0.28	<0.70	<0.14	0.86 J	NA	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	NA	<0.14	<0.14	<0.14	<0.14
1,2-Dibromoethane	0.005	0.05	<1.8	<0.72	<1.8	<0.36	<0.36	NA	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	NA	<0.36	<0.36	<0.36	<0.36
1,2-Dichlorobenzene	60	600	<1.4	<0.54	<1.4	<0.27	<0.27	NA	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	NA	<0.27	<0.27	<0.27	<0.27
1,2-Dichloropropane	0.5	5	<1	<0.4	<1.0	<0.20	<0.2	NA	<0.2	<0.2	<0.2	<0.20	<0.20	<0.2	NA	<0.2	<0.2	<0.2	<0.20
1,3,5-Trimethylbenzene	96	480	<0.9	<0.36	<0.90	<0.18	<0.18	NA	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	NA	<0.18	<0.18	<0.18	<0.18
Benzene	0.5	5	<0.37	<0.15	<0.37	0.24 J	***1.1***	NA	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	NA	<0.074	<0.074	<0.074	<0.074
Bromoform	0.44	4.4	<1.4	<0.56	<1.4	<0.28	<0.28	NA	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	NA	<0.28	<0.28	<0.28	<0.28
Bromomethane	1	10	<1.6	<0.62	<1.6	<0.31	<0.31	NA	<0.31	<0.31	<0.31	<0.31	<0.31 *	<0.31	NA	<0.31	<0.31	<0.31	<0.31
Carbon tetrachloride	0.5	5	<1.3	<0.52	<1.3	<0.26	<0.26	NA	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	NA	<0.26	<0.26	<0.26	<0.26
Chloroform	0.6	6	<1	<0.4	<1.0	***0.81 J***	***1***	NA	***0.91 J***	***1.4***	<0.2	<0.20	***0.75 J***	<0.2	NA	<0.2	<0.2	<0.2	<0.20
Chloromethane	3	30	<0.9	<0.36	<0.90	<0.18	<0.18	NA	<0.18	<0.18	<0.18	<0.18	<0.18	0.47 J	NA	<0.18	<0.18	<0.18	<0.18
cis-1,2-Dichloroethene	7	70	***220***	***110***	***110***	1.3	1.8	NA	6.1	3.8	***97***	***46***	***58***	3.6	NA	4.9	3.7	<0.12	2.6
Dichlorodifluoromethane	200	1,000	<1	<0.4	<1.0	<0.20	<0.2	NA	<0.2	<0.2	<0.2	<0.20	<0.20	<0.2	NA	<0.2	<0.2	<0.2	<0.20
Ethylbenzene	140	700	<0.65	<0.26	<0.65	<0.13	0.5	NA	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	NA	<0.13	<0.13	<0.13	<0.13
Isopropylbenzene	NE	NE	<0.7	<0.28	<0.70	<0.14	<0.14	NA	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	NA	<0.14	<0.14	<0.14	<0.14
Methyl tert-butyl ether	12	60	<1.2	<0.48	<1.2	<0.24	<0.24	NA	<0.24	<0.24	<0.24	<0.24	<0.24 *	<0.24	NA	<0.24	<0.24	<0.24	<0.24
Methylene Chloride	0.5	5	<3.4	<1.4	<3.4	<0.68	<0.68	NA	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	NA	<0.68	<0.68	<0.68	<0.68
Naphthalene	10	100	<0.8	<0.32	<0.80	<0.16	<0.16	NA	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	NA	<0.16	<0.16	<0.16	<0.16
n-Butylbenzene	NE	NE	<0.65	<0.26	<0.65	<0.13	<0.13	NA	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	NA	<0.13	<0.13	<0.13	<0.13
N-Propylbenzene	NE	NE	<0.65	<0.26	<0.65	<0.13	<0.13	NA	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	NA	<0.13	<0.13	<0.13	<0.13
p-Isopropyltoluene	NE	NE	<0.85	<0.34	<0.85	<0.17	<0.17	NA	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	NA	<0.17	<0.17	<0.17	<0.17
sec-Butylbenzene	NE	NE	<0.75	<0.3	<0.75	<0.15	<0.15	NA	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	NA	<0.15	<0.15	<0.15	<0.15
Styrene	10	100	<0.5	<0.2	<0.50	<0.10	<0.1	NA	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	NA	<0.1	<0.1	<0.1	<0.10
tert-Butylbenzene	NE	NE	<0.7	<0.28	<0.70	<0.14	<0.14	NA	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	NA	<0.14	<0.14	<0.14	<0.14
Tetrachloroethene	0.5	5	***2,500***	***1,500***	***1,900***	***930***	***180***	NA	***160***	***210***	***13***	***23***	***61***	***520***	NA	***450***	***270***	***190***	***430***
Toluene	160	800	<0.55	<0.22	<0.55	<0.11	1.7	NA	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	NA	<0.11	0.37 J	<0.11	<0.11
trans-1,2-Dichloroethene	20	100	<1.3	<0.5	<1.3	<0.25	<0.25	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	NA	<0.25	<0.25	<0.25	<0.25
Trichloroethene	0.5	5	***210***	***120***	***130***	***3.3***	***4.8***	NA	***5.4***	***8.5***	***6.1***	***4.2***	***7.1***	***5.8***	NA	***5.8***	***5.0***	***4.9***	***6.8***
Vinyl chloride	0.02	0.2	<0.5	<0.2	<0.50	<0.10	<0.1	NA	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	NA	<0.1	<0.1	<0.1	<0.10
Xylenes, Total	400	2,000	<0.34	<0.14	<0.34	<0.068	1.5	NA	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	NA	<0.068	<0.068	<0.068	<0.068
PAHs																			
1-Methylnaphthalene	NE	NE	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA
2-Methylnaphthalene	NE	NE	NA	NA	NA	NA	<0.13	NA	NA	NA	NA	NA	NA	<0.14	NA	NA	NA	NA	NA
Naphthalene	10	100	NA	NA	NA	NA	0.31 J	NA	NA	NA	NA	NA	NA	<0.31	NA	NA	NA	NA	NA
Total PCBs																			
Aroclor1016	0.003	0.03	NA	NA	NA	NA	***12***	<0.033	***4***	<0.064	<0.064	<0.065	NA	***2.4***	<0.033	<0.064	<0.063	<0.063	<0.065
Aroclor1232	0.003	0.03	NA	NA	NA	NA	<0.49	***13***	<0.19	<0.19	***12***	<0.20	NA	<0.092	***2.6***	<0.19	<0.19	***3.3***	<0.19
Aroclor1242	0.003	0.03	NA	NA	NA	NA	<0.69	<0.099	<0.19	***4.7***	<0.19	***7.1***	NA	<0.13	<0.1	<0.19	***0.97***	<0.19	<0.19
Dissolved PCBs																			
Aroclor1016	0.003	0.03	NA	NA	NA	NA	NA	<0.037	<0.068	<0.065	<0.063	<0.067	***0.89***	NA	<0.033	<0.064	<0.064	<0.065	<0.066
Aroclor1232	0.003	0.03	NA	NA	NA	NA	NA	<0.11	<0.2	<0.19	<0.19	<0.20	<0.19	NA	<0.1	<0.19	<0.19	<0.19	<0.20
Aroclor1242	0.003	0.03	NA	NA	NA	NA	NA	<0.11	<0.2	<0.19	<0.19	***0.28 J***	<0.19	NA	<0.1	<0.19	<0.19	<0.19	<0.20

Footnotes on Page 54.

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MW-21D2 (continued)				MW-22S							MW-22D					
Sample Interval (feet bls)	Preventive	Enforcement	110-170	110-170	110-170	110-170	24-35	24-35	24-35	24-35	24-35	24-35	24-35	45-50	45-50	45-50	45-50	45-50	45-50
Sample Date	Action Limit	Standard	07/18/13	10/15/13	04/15/14	10/23/14	01/15/13	03/07/13	04/19/13	07/16/13	10/10/13	04/18/14	10/20/14	01/15/13	03/08/13	04/19/13	07/16/13	10/10/13	04/18/14
Total Metals																			
Arsenic	1	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	400	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	10	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	1.5	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	60	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.20	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals																			
Arsenic	1	10	NA	NA	NA	NA	***1.2***	NA	NA	NA	NA	NA	NA	0.29 J	NA	NA	NA	NA	NA
Barium	400	2,000	NA	NA	NA	NA	200	NA	NA	NA	NA	NA	NA	130	NA	NA	NA	NA	NA
Cadmium	0.5	5	NA	NA	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	<0.1	NA	NA	NA	NA	NA
Chromium	10	100	NA	NA	NA	NA	<0.64	NA	NA	NA	NA	NA	NA	1.8 J	NA	NA	NA	NA	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	NA	NA	***200***	NA	NA	NA	NA	NA	NA	66 J	NA	NA	NA	NA	NA
Lead	1.5	15	NA	NA	NA	NA	0.22 J	NA	NA	NA	NA	NA	NA	<0.16	NA	NA	NA	NA	NA
Manganese	60	300	28	NA	NA	NA	***1,400***	NA	NA	NA	NA	NA	NA	***510***	NA	NA	NA	NA	NA
Mercury	0.2	2	NA	NA	NA	NA	<0.071	NA	NA	NA	NA	NA	NA	<0.071	NA	NA	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	NA	0.34 J	NA	NA	NA	NA	NA	NA	<0.25	NA	NA	NA	NA	NA
Silver	10	50	NA	NA	NA	NA	<0.069	NA	NA	NA	NA	NA	NA	<0.069	NA	NA	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

General Notes:
All concentrations in microgram per liter (µg/L).
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.

Acronyms and Abbreviations:
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
* = data is suspect and not used in evaluation
B = compound was found in the blank and the sample
bls = below land surface
J = result is between the method detection limit and the limit of quantitation
NA = not analyzed
NE = not established
ND = not detected
PCBs = polychlorinated biphenyls
PAHs = polycyclic aromatic hydrocarbons
VOCs = volatile organic compounds

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MW-22D (continued)			MW-23S								MW-23D				
Sample Interval (feet bls)	Preventive	Enforcement	45-50	45-50	45-50	24-35	24-35	24-35	24-35	24-35	24-35	24-35	24-35	45-50	45-50	45-50	45-50	45-50
Sample Date	Action Limit	Standard	04/18/14	10/16/14	10/16/14	01/15/13	04/19/13	07/16/13	09/05/13	09/05/13	10/10/13	04/18/14	10/20/14	01/14/13	03/08/13	04/19/13	04/20/13	07/17/13
VOCs																		
1,1,1,2-Tetrachloroethane	7	70	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	NA	<0.25	<0.25	<0.25	<0.25	NA	<0.25	NA	<0.25
1,1,2-Trichloroethane	0.5	5	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	NA	***1.8***	<0.28	<0.28	<0.28	NA	<0.28	NA	<0.28
1,1-Dichloroethene	0.7	7	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	NA	<0.31	<0.31	<0.31	<0.31	NA	<0.31	NA	<0.31
1,2,4-Trimethylbenzene	96	480	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	NA	<0.14	<0.14	<0.14	<0.14	NA	<0.14	NA	<0.14
1,2-Dibromoethane	0.005	0.05	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	NA	<0.36	<0.36	<0.36	<0.36	NA	<0.36	NA	<0.36
1,2-Dichlorobenzene	60	600	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	NA	<0.27	<0.27	<0.27	<0.27	NA	<0.27	NA	<0.27
1,2-Dichloropropane	0.5	5	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2	NA	<0.2	<0.20	<0.20	<0.2	NA	<0.2	NA	<0.2
1,3,5-Trimethylbenzene	96	480	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	NA	<0.18	<0.18	<0.18	<0.18	NA	<0.18	NA	<0.18
Benzene	0.5	5	<0.074	<0.074	<0.074	***0.73***	<0.074	<0.074	<0.074	NA	<0.074	<0.074	<0.074	0.32 J	NA	<0.074	NA	<0.074
Bromoform	0.44	4.4	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	NA	<0.28	<0.28	<0.28	<0.28	NA	<0.28	NA	<0.28
Bromomethane	1	10	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	NA	<0.31	<0.31	<0.31 *	<0.31	NA	<0.31	NA	<0.31
Carbon tetrachloride	0.5	5	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	NA	<0.26	<0.26	<0.26	<0.26	NA	<0.26	NA	<0.26
Chloroform	0.6	6	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2	NA	<0.2	<0.20	<0.20	<0.2	NA	<0.2	NA	<0.2
Chloromethane	3	30	<0.18	<0.18	<0.18	1.2	<0.18	<0.18	<0.18	NA	<0.18	<0.18	<0.18	<0.18	NA	<0.18	NA	<0.18
cis-1,2-Dichloroethene	7	70	2.5	4.2	4.9	<0.12	3.7	***29***	***27***	NA	***16***	***16***	***19***	<0.12	NA	<0.12	NA	<0.12
Dichlorodifluoromethane	200	1,000	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2	NA	<0.2	<0.20	<0.20	<0.2	NA	<0.2	NA	<0.2
Ethylbenzene	140	700	<0.13	<0.13	<0.13	0.43 J	<0.13	<0.13	<0.13	NA	<0.13	<0.13	<0.13	0.20 J	NA	<0.13	NA	<0.13
Isopropylbenzene	NE	NE	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	NA	<0.14	<0.14	<0.14	<0.14	NA	<0.14	NA	<0.14
Methyl tert-butyl ether	12	60	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	NA	<0.24	<0.24	<0.24	<0.24	NA	<0.24	NA	<0.24
Methylene Chloride	0.5	5	<0.68	***6.6***	***7.1***	<0.68	<0.68	<0.68	<0.68	NA	<0.68	<0.68	<0.68	<0.68	NA	<0.68	NA	<0.68
Naphthalene	10	100	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	NA	<0.16	<0.16	<0.16	<0.16	NA	<0.16	NA	<0.16
n-Butylbenzene	NE	NE	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	NA	<0.13	<0.13	<0.13	<0.13	NA	<0.13	NA	<0.13
N-Propylbenzene	NE	NE	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	NA	<0.13	<0.13	<0.13	<0.13	NA	<0.13	NA	<0.13
p-Isopropyltoluene	NE	NE	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	NA	<0.17	<0.17	<0.17	<0.17	NA	<0.17	NA	<0.17
sec-Butylbenzene	NE	NE	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	NA	<0.15	<0.15	<0.15	<0.15	NA	<0.15	NA	<0.15
Styrene	10	100	<0.10	<0.10	<0.10	<0.1	<0.1	<0.1	<0.1	NA	<0.1	<0.10	<0.10	<0.1	NA	<0.1	NA	<0.1
tert-Butylbenzene	NE	NE	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	NA	<0.14	<0.14	<0.14	<0.14	NA	<0.14	NA	<0.14
Tetrachloroethene	0.5	5	***450***	***250***	***270***	***290***	***580***	***420***	***240***	NA	***130***	***210***	***190***	***100***	NA	***86***	NA	***170***
Toluene	160	800	<0.11	<0.11	<0.11	1.3	<0.11	<0.11	<0.11	NA	<0.11	<0.11	<0.11	0.6	NA	<0.11	NA	<0.11
trans-1,2-Dichloroethene	20	100	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	NA	<0.25	<0.25	<0.25	<0.25	NA	<0.25	NA	<0.25
Trichloroethene	0.5	5	***6.7***	***5.7***	***6.9***	***0.6***	***1.4***	***20***	***17***	NA	***15***	***11***	***11***	<0.19	NA	***0.53***	NA	0.21 J
Vinyl chloride	0.02	0.2	<0.10	***0.68***	***0.66***	<0.1	<0.1	<0.1	<0.1	NA	<0.1	<0.10	<0.10	<0.1	NA	<0.1	NA	<0.1
Xylenes, Total	400	2,000	<0.068	<0.068	<0.068	0.95 J	<0.068	<0.068	<0.068	NA	<0.068	<0.068	<0.068	0.68 J	NA	<0.068	NA	<0.068
PAHs																		
1-Methylnaphthalene	NE	NE	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	<1.1	NA	NA	NA	NA
2-Methylnaphthalene	NE	NE	NA	NA	NA	<0.14	NA	NA	NA	NA	NA	NA	NA	<0.14	NA	NA	NA	NA
Naphthalene	10	100	NA	NA	NA	<0.31	NA	NA	NA	NA	NA	NA	NA	<0.33	NA	NA	NA	NA
Total PCBs																		
Aroclor1016	0.003	0.03	NA	NA	NA	<0.19	NA	<0.063	<0.028	NA	<0.066	NA	NA	<0.16	<0.034	NA	<0.065	<0.067 *
Aroclor1232	0.003	0.03	NA	NA	NA	<0.11	NA	<0.19	<0.083	NA	<0.2	NA	NA	<0.089	<0.1	NA	<0.19	<0.2
Aroclor1242	0.003	0.03	NA	NA	NA	<0.15	NA	<0.19	<0.083	NA	<0.2	NA	NA	***0.24 J***	<0.1	NA	<0.19	<0.2
Dissolved PCBs																		
Aroclor1016	0.003	0.03	NA	<0.063	NA	NA	NA	<0.063	NA	<0.026	<0.064	NA	<0.063	NA	<0.034	NA	<0.066	<0.068 *
Aroclor1232	0.003	0.03	NA	<0.19	NA	NA	NA	<0.19	NA	<0.078	<0.19	NA	<0.19	NA	<0.1	NA	<0.2	<0.2
Aroclor1242	0.003	0.03	NA	<0.19	NA	NA	NA	<0.19	NA	<0.078	<0.19	NA	<0.19	NA	<0.1	NA	<0.2	<0.2

Footnotes on Page 56.

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MW-22D (continued)			MW-23S								MW-23D				
Sample Interval (feet bls)	Preventive	Enforcement	45-50	45-50	45-50	24-35	24-35	24-35	24-35	24-35	24-35	24-35	24-35	45-50	45-50	45-50	45-50	45-50
Sample Date	Action Limit	Standard	04/18/14	10/16/14	10/16/14	01/15/13	04/19/13	07/16/13	09/05/13	09/05/13	10/10/13	04/18/14	10/20/14	01/14/13	03/08/13	04/19/13	04/20/13	07/17/13
Total Metals																		
Arsenic	1	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	400	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	10	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	1.5	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	60	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.20	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals																		
Arsenic	1	10	NA	NA	NA	0.56 J	NA	NA	NA	NA	NA	NA	NA	0.35 J	NA	NA	NA	NA
Barium	400	2,000	NA	NA	NA	120	NA	NA	NA	NA	NA	NA	NA	120	NA	NA	NA	NA
Cadmium	0.5	5	NA	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	<0.1	NA	NA	NA	NA
Chromium	10	100	NA	NA	NA	0.90 J	NA	NA	NA	NA	NA	NA	NA	<0.64	NA	NA	NA	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	NA	***280***	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	1.5	15	NA	NA	NA	0.25 J	NA	NA	NA	NA	NA	NA	NA	<0.16	NA	NA	NA	NA
Manganese	60	300	NA	NA	NA	***880***	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.2	2	NA	NA	NA	<0.071	NA	NA	NA	NA	NA	NA	NA	<0.071	NA	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	0.79 J	NA	NA	NA	NA	NA	NA	NA	1.0 J	NA	NA	NA	NA
Silver	10	50	NA	NA	NA	<0.069	NA	NA	NA	NA	NA	NA	NA	<0.069	NA	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

General Notes:
All concentrations in microgram per liter (µg/L).
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.

Acronyms and Abbreviations:
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
* = data is suspect and not used in evaluation
B = compound was found in the blank and the sample
bls = below land surface
J = result is between the method detection limit and the limit of quantitation
NA = not analyzed
NE = not established
ND = not detected
PCBs = polychlorinated biphenyls
PAHs = polycyclic aromatic hydrocarbons
VOCs = volatile organic compounds

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MW-23D (continued)			MW-24					MW-25D							MW-25D2
Sample Interval (feet bls)	Preventive	Enforcement	45-50	45-50	45-50	30-40	30-40	30-40	30-40	30-40	120-130	120-130	120-130	120-130	120-130	120-130	120-130	160-170
Sample Date	Action Limit	Standard	10/10/13	04/18/14	10/20/14	04/29/13	07/19/13	10/08/13	04/17/14	10/14/14	05/06/13	07/19/13	10/09/13	04/21/14	07/09/14	08/26/14	10/20/14	05/06/13
VOCs																		
1,1,1,2-Tetrachloroethane	7	70	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25 *	<0.25
1,1,2-Trichloroethane	0.5	5	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28 *	<0.28
1,1-Dichloroethene	0.7	7	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31
1,2,4-Trimethylbenzene	96	480	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
1,2-Dibromoethane	0.005	0.05	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
1,2-Dichlorobenzene	60	600	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27
1,2-Dichloropropane	0.5	5	<0.2	<0.20	<0.20	<0.2	<0.2	<0.2	<0.20	<0.20	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20	<0.2
1,3,5-Trimethylbenzene	96	480	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
Benzene	0.5	5	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074
Bromoform	0.44	4.4	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Bromomethane	1	10	<0.31	<0.31	<0.31 *	<0.31	<0.31	<0.31	<0.31	<0.31 *	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31
Carbon tetrachloride	0.5	5	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26
Chloroform	0.6	6	<0.2	<0.20	<0.20	<0.2	<0.2	<0.2	<0.20	<0.20	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20	<0.2
Chloromethane	3	30	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
cis-1,2-Dichloroethene	7	70	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
Dichlorodifluoromethane	200	1,000	<0.2	<0.20	<0.20	<0.2	<0.2	<0.2	<0.20	<0.20	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20	<0.2
Ethylbenzene	140	700	<0.13	<0.13	<0.13	<0.13	0.31 J	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	0.35 J	<0.13	<0.13	<0.13
Isopropylbenzene	NE	NE	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
Methyl tert-butyl ether	12	60	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24
Methylene Chloride	0.5	5	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	***5.3***	<0.68	<0.68	<0.68	<0.68	<0.68
Naphthalene	10	100	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16 *	<0.16
n-Butylbenzene	NE	NE	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
N-Propylbenzene	NE	NE	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
p-Isopropyltoluene	NE	NE	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
sec-Butylbenzene	NE	NE	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
Styrene	10	100	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.10	<0.10	<0.10	<0.10	<0.1
tert-Butylbenzene	NE	NE	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
Tetrachloroethene	0.5	5	***160***	***190***	***190***	***3.0***	***3.0***	***3.3***	***2.8***	***0.83 J***	***0.76 J***	***2.8***	***3.1***	***1.3***	***1.2***	***1.1***	***0.54 J***	<0.17
Toluene	160	800	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	0.49 J	0.73	<0.11	<0.11
trans-1,2-Dichloroethene	20	100	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
Trichloroethene	0.5	5	<0.19	<0.19	0.27 J	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
Vinyl chloride	0.02	0.2	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.10	<0.10	<0.1	<0.1	<0.1	<0.10	<0.10	<0.10	<0.10	<0.1
Xylenes, Total	400	2,000	<0.068	<0.068	<0.068	<0.068	0.37 J	<0.068	<0.068	<0.068	<0.068	0.36 J	<0.068	<0.068	1.6	<0.068	<0.068	<0.068
PAHs																		
1-Methylnaphthalene	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	10	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs																		
Aroclor1016	0.003	0.03	<0.064	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	0.003	0.03	<0.19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	0.003	0.03	<0.19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																		
Aroclor1016	0.003	0.03	<0.065	NA	<0.063	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	0.003	0.03	<0.19	NA	<0.19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	0.003	0.03	<0.19	NA	<0.19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Footnotes on Page 58.

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MW-23D (continued)			MW-24					MW-25D							MW-25D2
Sample Interval (feet bls)	Preventive	Enforcement	45-50	45-50	45-50	30-40	30-40	30-40	30-40	30-40	120-130	120-130	120-130	120-130	120-130	120-130	120-130	160-170
Sample Date	Action Limit	Standard	10/10/13	04/18/14	10/20/14	04/29/13	07/19/13	10/08/13	04/17/14	10/14/14	05/06/13	07/19/13	10/09/13	04/21/14	07/09/14	08/26/14	10/20/14	05/06/13
Total Metals																		
Arsenic	1	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	400	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	10	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	1.5	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	60	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.20	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals																		
Arsenic	1	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	400	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	10	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	1.5	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	60	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

General Notes:
All concentrations in microgram per liter (µg/L).
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.

Acronyms and Abbreviations:
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
* = data is suspect and not used in evaluation
B = compound was found in the blank and the sample
bls = below land surface
J = result is between the method detection limit and the limit of quantitation
NA = not analyzed
NE = not established
ND = not detected
PCBs = polychlorinated biphenyls
PAHs = polycyclic aromatic hydrocarbons
VOCs = volatile organic compounds

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MW-25D2 (continued)						MW-26S					MW-27D				MW-27D2
Sample Interval (feet bls)	Preventive	Enforcement	160-170	160-170	160-170	160-170	160-170	160-170	6.8-16.8	6.8-16.8	6.8-16.8	6.8-16.8	6.8-16.8	130-140	130-140	130-140	130-140	170-180
Sample Date	Action Limit	Standard	07/19/13	10/04/13	04/21/14	07/10/14	08/26/14	10/22/14	08/23/13	10/09/13	04/22/14	07/10/14	10/15/14	12/26/13	04/18/14	07/09/14	10/21/14	12/26/13
VOCs																		
1,1,1,2-Tetrachloroethane	7	70	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
1,1,2-Trichloroethane	0.5	5	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
1,1-Dichloroethene	0.7	7	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31
1,2,4-Trimethylbenzene	96	480	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
1,2-Dibromoethane	0.005	0.05	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
1,2-Dichlorobenzene	60	600	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27
1,2-Dichloropropane	0.5	5	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.2
1,3,5-Trimethylbenzene	96	480	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
Benzene	0.5	5	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074
Bromoform	0.44	4.4	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Bromomethane	1	10	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31 *	<0.31	<0.31	<0.31	<0.31	<0.31
Carbon tetrachloride	0.5	5	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26
Chloroform	0.6	6	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.2
Chloromethane	3	30	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
cis-1,2-Dichloroethene	7	70	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	0.85 J	2.6	2.5	1.1	4
Dichlorodifluoromethane	200	1,000	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.20	<0.20	<0.20	<0.2	<0.20	<0.20	<0.20	<0.2
Ethylbenzene	140	700	<0.13	<0.13	<0.13	0.47 J	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	0.55	<0.13	<0.13
Isopropylbenzene	NE	NE	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
Methyl tert-butyl ether	12	60	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	1.3	<0.24	<0.24	<0.24
Methylene Chloride	0.5	5	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68
Naphthalene	10	100	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
n-Butylbenzene	NE	NE	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
N-Propylbenzene	NE	NE	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
p-Isopropyltoluene	NE	NE	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
sec-Butylbenzene	NE	NE	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
Styrene	10	100	<0.1	<0.1	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.10	<0.1	<0.10	<0.10	<0.10	<0.1
tert-Butylbenzene	NE	NE	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
Tetrachloroethene	0.5	5	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	***1.4***	<0.17	<0.17	<0.17	<0.17	***1.8***	***5.4***	***5***	***1.7***	***11***
Toluene	160	800	<0.11	<0.11	<0.11	0.63	1.2	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	1	<0.11	0.47 J	<0.11	0.20 J
trans-1,2-Dichloroethene	20	100	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
Trichloroethene	0.5	5	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	***1.3***	***3.5***	***3.5***	***1.7***	***7.2***
Vinyl chloride	0.02	0.2	<0.1	<0.1	<0.10	<0.10	<0.10	<0.10	<0.1	<0.1	<0.10	<0.10	<0.10	<0.1	<0.10	<0.10	<0.10	<0.1
Xylenes, Total	400	2,000	<0.068	<0.068	<0.068	2.5	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	3	<0.068	<0.068
PAHs																		
1-Methylnaphthalene	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	10	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs																		
Aroclor1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																		
Aroclor1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Footnotes on Page 60.

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MW-25D2 (continued)						MW-26S					MW-27D				MW-27D2
Sample Interval (feet bls)	Preventive	Enforcement	160-170	160-170	160-170	160-170	160-170	160-170	6.8-16.8	6.8-16.8	6.8-16.8	6.8-16.8	6.8-16.8	130-140	130-140	130-140	130-140	170-180
Sample Date	Action Limit	Standard	07/19/13	10/04/13	04/21/14	07/10/14	08/26/14	10/22/14	08/23/13	10/09/13	04/22/14	07/10/14	10/15/14	12/26/13	04/18/14	07/09/14	10/21/14	12/26/13
Total Metals																		
Arsenic	1	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	400	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	10	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	1.5	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	60	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.20	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals																		
Arsenic	1	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	400	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	10	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	130	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	150	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	1.5	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	60	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	10	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

General Notes:
All concentrations in microgram per liter (µg/L).
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.

Acronyms and Abbreviations:
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
* = data is suspect and not used in evaluation
B = compound was found in the blank and the sample
bls = below land surface
J = result is between the method detection limit and the limit of quantitation
NA = not analyzed
NE = not established
ND = not detected
PCBs = polychlorinated biphenyls
PAHs = polycyclic aromatic hydrocarbons
VOCs = volatile organic compounds

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MW-27D2 (continued)			
Sample Interval (feet bls)	Preventive	Enforcement	170-180	170-180	170-180	170-180
Sample Date	Action Limit	Standard	04/18/14	07/09/14	07/09/14	10/21/14
VOCs						
1,1,1,2-Tetrachloroethane	7	70	<0.25	<0.25	<0.25	<0.25
1,1,2-Trichloroethane	0.5	5	<0.28	<0.28	<0.28	<0.28
1,1-Dichloroethene	0.7	7	<0.31	<0.31	<0.31	<0.31
1,2,4-Trimethylbenzene	96	480	<0.14	<0.14	<0.14	<0.14
1,2-Dibromoethane	0.005	0.05	<0.36	<0.36	<0.36	<0.36
1,2-Dichlorobenzene	60	600	<0.27	<0.27	<0.27	<0.27
1,2-Dichloropropane	0.5	5	<0.20	<0.20	<0.20	<0.20
1,3,5-Trimethylbenzene	96	480	<0.18	<0.18	<0.18	<0.18
Benzene	0.5	5	<0.074	<0.074	<0.074	<0.074
Bromoform	0.44	4.4	<0.28	<0.28	<0.28	<0.28
Bromomethane	1	10	<0.31	<0.31	<0.31	<0.31
Carbon tetrachloride	0.5	5	<0.26	<0.26	<0.26	<0.26
Chloroform	0.6	6	<0.20	<0.20	<0.20	<0.20
Chloromethane	3	30	<0.18	<0.18	<0.18	<0.18
cis-1,2-Dichloroethene	7	70	***12***	***11***	***11***	***12***
Dichlorodifluoromethane	200	1,000	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	140	700	<0.13	0.33 J	0.36 J	<0.13
Isopropylbenzene	NE	NE	<0.14	<0.14	<0.14	<0.14
Methyl tert-butyl ether	12	60	<0.24	<0.24	<0.24	<0.24
Methylene Chloride	0.5	5	<0.68	<0.68	<0.68	<0.68
Naphthalene	10	100	<0.16	<0.16	<0.16	<0.16
n-Butylbenzene	NE	NE	<0.13	<0.13	<0.13	<0.13
N-Propylbenzene	NE	NE	<0.13	<0.13	<0.13	<0.13
p-Isopropyltoluene	NE	NE	<0.17	<0.17	<0.17	<0.17
sec-Butylbenzene	NE	NE	<0.15	<0.15	<0.15	<0.15
Styrene	10	100	<0.10	<0.10	<0.10	<0.10
tert-Butylbenzene	NE	NE	<0.14	<0.14	<0.14	<0.14
Tetrachloroethene	0.5	5	***44***	***36***	***35***	***41***
Toluene	160	800	<0.11	0.43 J	0.41 J	<0.11
trans-1,2-Dichloroethene	20	100	<0.25	<0.25	<0.25	<0.25
Trichloroethene	0.5	5	***25***	***21***	***20***	***23***
Vinyl chloride	0.02	0.2	<0.10	<0.10	<0.10	<0.10
Xylenes, Total	400	2,000	<0.068	1.6	1.6	<0.068
PAHs						
1-Methylnaphthalene	NE	NE	NA	NA	NA	NA
2-Methylnaphthalene	NE	NE	NA	NA	NA	NA
Naphthalene	10	100	NA	NA	NA	NA
Total PCBs						
Aroclor1016	0.003	0.03	NA	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	NA
Dissolved PCBs						
Aroclor1016	0.003	0.03	NA	NA	NA	NA
Aroclor1232	0.003	0.03	NA	NA	NA	NA
Aroclor1242	0.003	0.03	NA	NA	NA	NA

Footnotes on Page 62.

Table 4-4
Groundwater Analytical Results 2010-2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MW-27D2 (continued)			
Sample Interval (feet bls)	Preventive	Enforcement	170-180	170-180	170-180	170-180
Sample Date	Action Limit	Standard	04/18/14	07/09/14	07/09/14	10/21/14
Total Metals						
Arsenic	1	10	NA	NA	NA	NA
Barium	400	2,000	NA	NA	NA	NA
Cadmium	0.5	5	NA	NA	NA	NA
Chromium	10	100	NA	NA	NA	NA
Copper	130	1,300	NA	NA	NA	NA
Iron	150	300	NA	NA	NA	NA
Lead	1.5	15	NA	NA	NA	NA
Manganese	60	300	NA	NA	NA	NA
Mercury	0.20	2	NA	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	NA
Silver	10	50	NA	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA
Dissolved Metals						
Arsenic	1	10	NA	NA	NA	NA
Barium	400	2,000	NA	NA	NA	NA
Cadmium	0.5	5	NA	NA	NA	NA
Chromium	10	100	NA	NA	NA	NA
Copper	130	1,300	NA	NA	NA	NA
Iron	150	300	NA	NA	NA	NA
Lead	1.5	15	NA	NA	NA	NA
Manganese	60	300	NA	NA	NA	NA
Mercury	0.2	2	NA	NA	NA	NA
Nickel	20	100	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	NA
Silver	10	50	NA	NA	NA	NA
Zinc	NS	NS	NA	NA	NA	NA

General Notes:
All concentrations in microgram per liter (µg/L).
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.

Acronyms and Abbreviations:
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
* = data is suspect and not used in evaluation
B = compound was found in the blank and the sample
bls = below land surface
J = result is between the method detection limit and the limit of quantitation
NA = not analyzed
NE = not established
ND = not detected
PCBs = polychlorinated biphenyls
PAHs = polycyclic aromatic hydrocarbons
VOCs = volatile organic compounds

Table 4-5
Summary of Soil Vapor Probe Analytical Results, 2009 - 2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Sample Location	Deep Soil Gas		VP-1N					VP-1S				
Sample Date	**Non-Res.[1,2]**	**Res.[1,2]**	**9/17/09**	**10/26/12**	**7/15/13**	**1/29/14**	**7/22/14**	**9/17/09**	**10/26/12**	**7/15/13**	**1/29/14**	**7/22/14**
VOC												
cis-1,2-Dichloroethene	NE	NE	--	0.52	2.6	<0.14	<0.17	--	<0.15	0.26	<0.14	0.19
trans-1,2-Dichloroethene	65,604	1,590	--	<0.36	<0.26	<0.14	<0.17	--	<0.15	<0.16	<0.14	<0.16
1,2-Dichloroethene	NE	NE	<20	0.52	2.6	<0.14	<0.17	341	<0.15	0.26	<0.14	0.19
Tetrachloroethene	26,512	619	160	65	76	<0.14	1.8	1,400	4.8	33	0.9	4.7
Trichloroethene	1,642	39	<10	0.52	1.1	<0.14	<0.17	260	0.15	0.44	<0.14	0.21
Vinyl Chloride	10,954	63	--	<0.36	<0.26	<0.14	<0.17	--	<0.15	<0.16	<0.14	<0.16

General Notes:

Concentrations presented in parts per billion by volume (ppbv).

Res./Non-Res. CSL provided for comparison purposes.

VP-3 through VP-6 compared to Non-Res. Deep Soil Gas CSL due to probe location (large commercial/industrial building, >5 feet below nearest building foundation).

Acronyms and Abbreviations:

[1] = CSLs in accordance with *Addressing Vapor Intrusion at Remediation and Redevelopment Sites in Wisconsin,* http://dnr.wi.gov/files/PDF/pubs/rr/RR800.pdf

[2] = Non-Res. Deep Soil Gas CSL used 0.001 AF; Res. Deep Soil Gas CSL used 0.01 AF.

100 = exceeds WI Res. Deep Soil Gas CSL with 0.01 AF

100 = exceeds WI Non-Res. Deep Soil Gas CSL with 0.001 AF

< = constituent not detected above noted laboratory detection limit

> = greater than

-- = not designated

AF = attenuation factor

CSL = calculated screening level

*D = limit of detection not achievable due to dilution

*IS = the internal standard quality control limit is exceeded

NE = criteria not established

Res. = residential

VOC = volatile organic compound

WI = Wisconsin

Table 4-5
Summary of Soil Vapor Probe Analytical Results, 2009 - 2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Sample Name	Deep Soil Gas		VP-2N				VP-2S				
Sample Date	Non-Res.[1,2]	Res.[1,2]	10/26/12	7/15/13	1/29/14	7/22/14	9/17/09	10/26/12	7/15/13	1/29/14	7/22/14
VOC											
cis-1,2-Dichloroethene	NE	NE	<0.93	2.5	<0.14	<0.18	--	<0.14	0.54	0.36	0.19
trans-1,2-Dichloroethene	65,604	1,590	<0.93	<0.39	<0.14	<0.18	--	<0.14	<0.31	<0.14	<0.15
1,2-Dichloroethene	NE	NE	<0.93	2.5	<0.14	<0.18	332	<0.14	0.54	NA	0.19
Tetrachloroethene	26,512	619	160	110	<0.14	1.5	1,100	12	86	44	2
Trichloroethene	1,642	39	<0.93	1.4	<0.14	<0.18	240	<0.14	0.38	0.22	<0.15
Vinyl Chloride	10,954	63	<0.93	<0.39	<0.14	<0.18	--	<0.14	<0.31	<0.14	<0.15

General Notes:
Concentrations presented in parts per billion by volume (ppbv).
Res./Non-Res. CSL provided for comparison purposes.
VP-3 through VP-6 compared to Non-Res. Deep Soil Gas CSL due to probe location (large commercial/industrial building, >5 feet below nearest building foundation).

Acronyms and Abbreviations:
[1] = CSLs in accordance with *Addressing Vapor Intrusion at Remediation and Redevelopment Sites in Wisconsin,* http://dnr.wi.gov/files/PDF/pubs/rr/RR800.pdf
[2] = Non-Res. Deep Soil Gas CSL used 0.001 AF; Res. Deep Soil Gas CSL used 0.01 AF.
100 = exceeds WI Res. Deep Soil Gas CSL with 0.01 AF
100 = exceeds WI Non-Res. Deep Soil Gas CSL with 0.001 AF
< = constituent not detected above noted laboratory detection limit
> = greater than
-- = not designated
AF = attenuation factor
CSL = calculated screening level
*D = limit of detection not achievable due to dilution
*IS = the internal standard quality control limit is exceeded
NE = criteria not established
Res. = residential
VOC = volatile organic compound
WI = Wisconsin

Table 4-5
Summary of Soil Vapor Probe Analytical Results, 2009 - 2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Sample Name	Deep Soil Gas		VP-3				VP-4			VP-5		
Sample Date	Non-Res.[1,2]	Res.[1,2]	3/30/12	10/26/12	10/26/12	7/22/14	3/30/12	10/26/12	7/23/14	3/30/12	10/26/12	7/22/14
VOC												
cis-1,2-Dichloroethene	NE	NE	0.6	<0.16	<0.15	0.58	<0.15	<0.15	0.27	1.1	26	2.6
trans-1,2-Dichloroethene	65,604	1,590	<0.17	<0.16	<0.15	<0.17	<0.15	<0.15	<0.16	<0.15	0.38	<0.17
1,2-Dichloroethene	NE	NE	0.6	<0.16	<0.15	0.58	<0.15	<0.15	0.27	1.1	26.38	2.6
Tetrachloroethene	26,512	619	18	3.2	3.8	25	0.68	0.2	<0.16	2.1	27	0.59
Trichloroethene	1,642	39	2	0.36	0.44	3.6	<0.15	<0.15	<0.16	1.1	22	2.4
Vinyl Chloride	10,954	63	<0.17	<0.16	<0.15	<0.17	<0.15	<0.15	<0.16	<0.15	1.2	0.38

General Notes:

Concentrations presented in parts per billion by volume (ppbv).

Res./Non-Res. CSL provided for comparison purposes.

VP-3 through VP-6 compared to Non-Res. Deep Soil Gas CSL due to probe location (large commercial/industrial building, >5 feet below nearest building foundation).

Acronyms and Abbreviations:

[1] = CSLs in accordance with *Addressing Vapor Intrusion at Remediation and Redevelopment Sites in Wisconsin,* http://dnr.wi.gov/files/PDF/pubs/rr/RR800.pdf

[2] = Non-Res. Deep Soil Gas CSL used 0.001 AF; Res. Deep Soil Gas CSL used 0.01 AF.

100 = exceeds WI Res. Deep Soil Gas CSL with 0.01 AF

100 = exceeds WI Non-Res. Deep Soil Gas CSL with 0.001 AF

< = constituent not detected above noted laboratory detection limit

> = greater than

-- = not designated

AF = attenuation factor

CSL = calculated screening level

*D = limit of detection not achievable due to dilution

*IS = the internal standard quality control limit is exceeded

NE = criteria not established

Res. = residential

VOC = volatile organic compound

WI = Wisconsin

Table 4-5
Summary of Soil Vapor Probe Analytical Results, 2009 - 2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Sample Name	Deep Soil Gas		VP-6					VP-102			
Sample Date	Non-Res.[1,2]	Res.[1,2]	3/30/12	10/26/12	4/29/13	1/29/14	7/22/14	11/25/11	10/24/12	1/29/14	7/23/14
VOC											
cis-1,2-Dichloroethene	NE	NE	28	190	2,100	310	1	1,940 *IS	45	0.56	<0.16
trans-1,2-Dichloroethene	65,604	1,590	1.7	5.8	82	16	<0.16	<400 *IS*D	<3.4	<0.14	<0.16
1,2-Dichloroethene	NE	NE	29.7	195.8	2,182	326	1	1940	45	0.56	<0.16
Tetrachloroethene	26,512	619	63	190	2,900	550	<0.16	4,620 *IS	1,200	2	0.17
Trichloroethene	1,642	39	20	72	1,100	240	0.34	**1,770 *IS**	240	1.2	<0.16
Vinyl Chloride	10,954	63	53	23	130	28	<0.16	<400 *IS*D	<3.4	<0.14	<0.16

General Notes:

Concentrations presented in parts per billion by volume (ppbv).

Res./Non-Res. CSL provided for comparison purposes.

VP-3 through VP-6 compared to Non-Res. Deep Soil Gas CSL due to probe location (large commercial/industrial building, >5 feet below nearest building foundation).

Acronyms and Abbreviations:

[1] = CSLs in accordance with *Addressing Vapor Intrusion at Remediation and Redevelopment Sites in Wisconsin,* http://dnr.wi.gov/files/PDF/pubs/rr/RR800.pdf

[2] = Non-Res. Deep Soil Gas CSL used 0.001 AF; Res. Deep Soil Gas CSL used 0.01 AF.

100 = exceeds WI Res. Deep Soil Gas CSL with 0.01 AF

100 = exceeds WI Non-Res. Deep Soil Gas CSL with 0.001 AF

< = constituent not detected above noted laboratory detection limit

> = greater than

-- = not designated

AF = attenuation factor

CSL = calculated screening level

*D = limit of detection not achievable due to dilution

*IS = the internal standard quality control limit is exceeded

NE = criteria not established

Res. = residential

VOC = volatile organic compound

WI = Wisconsin

Table 4-5
Summary of Soil Vapor Probe Analytical Results, 2009 - 2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Sample Name	Deep Soil Gas		VP-114					VP-126				
Sample Date	Non-Res.[1,2]	Res.[1,2]	11/25/11	10/24/12	7/15/13	1/29/14	7/23/14	11/25/11	10/24/12	7/15/13	1/29/14	7/23/14
VOC												
cis-1,2-Dichloroethene	NE	NE	<400 *IS*D	<0.16	<0.15	<0.14	<0.16	<200 *D	<0.16	<0.16	<0.14	<0.17
trans-1,2-Dichloroethene	65,604	1,590	<400 *IS*D	<0.16	<0.15	<0.14	<0.16	<200 *D	<0.16	<0.16	<0.14	<0.17
1,2-Dichloroethene	NE	NE	<400	<0.16	<0.15	<0.14	<0.16	<200	<0.16	<0.16	<0.14	<0.17
Tetrachloroethene	26,512	619	2,540 *IS	10	24	<0.14	2.9	452	1.4	4.4	<0.14	0.48
Trichloroethene	1,642	39	<400 *IS*D	<0.16	<0.15	<0.14	<0.16	<200 *D	<0.16	<0.16	<0.14	<0.17
Vinyl Chloride	10,954	63	<400 *IS*D	<0.16	<0.15	<0.14	<0.16	<200 *D	<0.16	<0.16	<0.14	<0.17

General Notes:

Concentrations presented in parts per billion by volume (ppbv).

Res./Non-Res. CSL provided for comparison purposes.

VP-3 through VP-6 compared to Non-Res. Deep Soil Gas CSL due to probe location (large commercial/industrial building, >5 feet below nearest building foundation).

Acronyms and Abbreviations:

[1] = CSLs in accordance with *Addressing Vapor Intrusion at Remediation and Redevelopment Sites in Wisconsin,* http://dnr.wi.gov/files/PDF/pubs/rr/RR800.pdf

[2] = Non-Res. Deep Soil Gas CSL used 0.001 AF; Res. Deep Soil Gas CSL used 0.01 AF.

100 = exceeds WI Res. Deep Soil Gas CSL with 0.01 AF

100 = exceeds WI Non-Res. Deep Soil Gas CSL with 0.001 AF

< = constituent not detected above noted laboratory detection limit

> = greater than

-- = not designated

AF = attenuation factor

CSL = calculated screening level

*D = limit of detection not achievable due to dilution

*IS = the internal standard quality control limit is exceeded

NE = criteria not established

Res. = residential

VOC = volatile organic compound

WI = Wisconsin

Table 4-5
Summary of Soil Vapor Probe Analytical Results, 2009 - 2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Sample Name	Deep Soil Gas		VP-202				VP-210				
Sample Date	Non-Res.[1,2]	Res.[1,2]	11/25/11	10/24/12	7/16/13	1/30/14	11/25/11	10/25/12	7/16/13	1/30/14	7/23/14
VOC											
cis-1,2-Dichloroethene	NE	NE	<0.085 *IS	<0.16	<0.16	<0.14	<0.085 *IS	<0.17	<0.15	<0.14	<0.17
trans-1,2-Dichloroethene	65,604	1,590	<0.085 *IS	<0.16	<0.16	<0.14	<0.085 *IS	<0.17	<0.15	<0.14	<0.17
1,2-Dichloroethene	NE	NE	<0.085	<0.16	<0.16	<0.14	<0.085	<0.17	<0.15	<0.14	<0.17
Tetrachloroethene	26,512	619	5.7 *IS	9.1	8	1.5	3.22	3.9	3.6	<0.14	5.4
Trichloroethene	1,642	39	<0.085 *IS	0.58	<0.16	<0.14	<0.085 *IS	<0.17	0.26	<0.14	<0.17
Vinyl Chloride	10,954	63	<0.085 *IS	<0.16	<0.16	<0.14	<0.085 *IS	<0.17	<0.15	<0.14	<0.17

General Notes:

Concentrations presented in parts per billion by volume (ppbv).

Res./Non-Res. CSL provided for comparison purposes.

VP-3 through VP-6 compared to Non-Res. Deep Soil Gas CSL due to probe location (large commercial/industrial building, >5 feet below nearest building foundation).

Acronyms and Abbreviations:

[1] = CSLs in accordance with *Addressing Vapor Intrusion at Remediation and Redevelopment Sites in Wisconsin,* http://dnr.wi.gov/files/PDF/pubs/rr/RR800.pdf

[2] = Non-Res. Deep Soil Gas CSL used 0.001 AF; Res. Deep Soil Gas CSL used 0.01 AF.

100 = exceeds WI Res. Deep Soil Gas CSL with 0.01 AF

100 = exceeds WI Non-Res. Deep Soil Gas CSL with 0.001 AF

< = constituent not detected above noted laboratory detection limit

> = greater than

-- = not designated

AF = attenuation factor

CSL = calculated screening level

*D = limit of detection not achievable due to dilution

*IS = the internal standard quality control limit is exceeded

NE = criteria not established

Res. = residential

VOC = volatile organic compound

WI = Wisconsin

Table 4-5
Summary of Soil Vapor Probe Analytical Results, 2009 - 2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Sample Name	Deep Soil Gas		VP-222					VP-237				
Sample Date	Non-Res.[1,2]	Res.[1,2]	11/25/11	10/25/12	7/16/13	1/30/14	7/23/14	11/25/11	10/25/12	7/17/13	1/30/14	7/23/14
VOC												
cis-1,2-Dichloroethene	NE	NE	<20 *D	<0.49	<0.92	<0.14	<0.89	<20	<0.16	<0.16	<0.14	<0.33
trans-1,2-Dichloroethene	65,604	1,590	<20 *D	<0.49	<0.92	<0.14	<0.89	<20	<0.16	<0.16	<0.14	<0.33
1,2-Dichloroethene	NE	NE	<20	<0.49	<0.92	<0.14	<0.89	<20	<0.16	<0.16	<0.14	<0.33
Tetrachloroethene	26,512	619	77	120	280	22	150	53	63	30	3.6	59
Trichloroethene	1,642	39	<20 *D	<0.49	<0.92	<0.14	<0.89	<20	<0.16	<0.16	<0.14	<0.33
Vinyl Chloride	10,954	63	<20 *D	<0.49	<0.92	<0.14	<0.89	<20	<0.16	<0.16	<0.14	<0.33

General Notes:

Concentrations presented in parts per billion by volume (ppbv).

Res./Non-Res. CSL provided for comparison purposes.

VP-3 through VP-6 compared to Non-Res. Deep Soil Gas CSL due to probe location (large commercial/industrial building, >5 feet below nearest building foundation).

Acronyms and Abbreviations:

[1] = CSLs in accordance with *Addressing Vapor Intrusion at Remediation and Redevelopment Sites in Wisconsin,* http://dnr.wi.gov/files/PDF/pubs/rr/RR800.pdf

[2] = Non-Res. Deep Soil Gas CSL used 0.001 AF; Res. Deep Soil Gas CSL used 0.01 AF.

100 = exceeds WI Res. Deep Soil Gas CSL with 0.01 AF

100 = exceeds WI Non-Res. Deep Soil Gas CSL with 0.001 AF

< = constituent not detected above noted laboratory detection limit

> = greater than

-- = not designated

AF = attenuation factor

CSL = calculated screening level

*D = limit of detection not achievable due to dilution

*IS = the internal standard quality control limit is exceeded

NE = criteria not established

Res. = residential

VOC = volatile organic compound

WI = Wisconsin

Table 4-5
Summary of Soil Vapor Probe Analytical Results, 2009 - 2014

2014 Annual Report
Madison-Kipp Corporation
Madison, Wisconsin

Sample Name	Deep Soil Gas		VP-249			VP-261				
Sample Date	Non-Res.[1,2]	Res.[1,2]	11/25/11	10/25/12	7/17/13	11/28/11	7/17/13	1/30/14	7/23/14	7/23/14
VOC										
cis-1,2-Dichloroethene	NE	NE	<0.085	<0.16	<0.14	<0.085 *IS	<0.15	<0.13	<0.16	<0.16
trans-1,2-Dichloroethene	65,604	1,590	<0.085	<0.16	<0.14	<0.085 *IS	<0.15	<0.13	<0.16	<0.16
1,2-Dichloroethene	NE	NE	<0.085	<0.16	<0.14	<0.085	<0.15	<0.13	<0.16	<0.16
Tetrachloroethene	26,512	619	8.44	23	3.3	<0.085 *IS	1.2	1.2	5	4.3
Trichloroethene	1,642	39	<0.085	<0.16	<0.14	<0.085 *IS	<0.15	<0.13	<0.16	<0.16
Vinyl Chloride	10,954	63	<0.085	<0.16	<0.14	<0.085 *IS	<0.15	<0.13	<0.16	<0.16

General Notes:

Concentrations presented in parts per billion by volume (ppbv).

Res./Non-Res. CSL provided for comparison purposes.

VP-3 through VP-6 compared to Non-Res. Deep Soil Gas CSL due to probe location (large commercial/industrial building, >5 feet below nearest building foundation).

Acronyms and Abbreviations:

[1] = CSLs in accordance with *Addressing Vapor Intrusion at Remediation and Redevelopment Sites in Wisconsin,* http://dnr.wi.gov/files/PDF/pubs/rr/RR800.pdf

[2] = Non-Res. Deep Soil Gas CSL used 0.001 AF; Res. Deep Soil Gas CSL used 0.01 AF.

100 = exceeds WI Res. Deep Soil Gas CSL with 0.01 AF

100 = exceeds WI Non-Res. Deep Soil Gas CSL with 0.001 AF

< = constituent not detected above noted laboratory detection limit

> = greater than

-- = not designated

AF = attenuation factor

CSL = calculated screening level

*D = limit of detection not achievable due to dilution

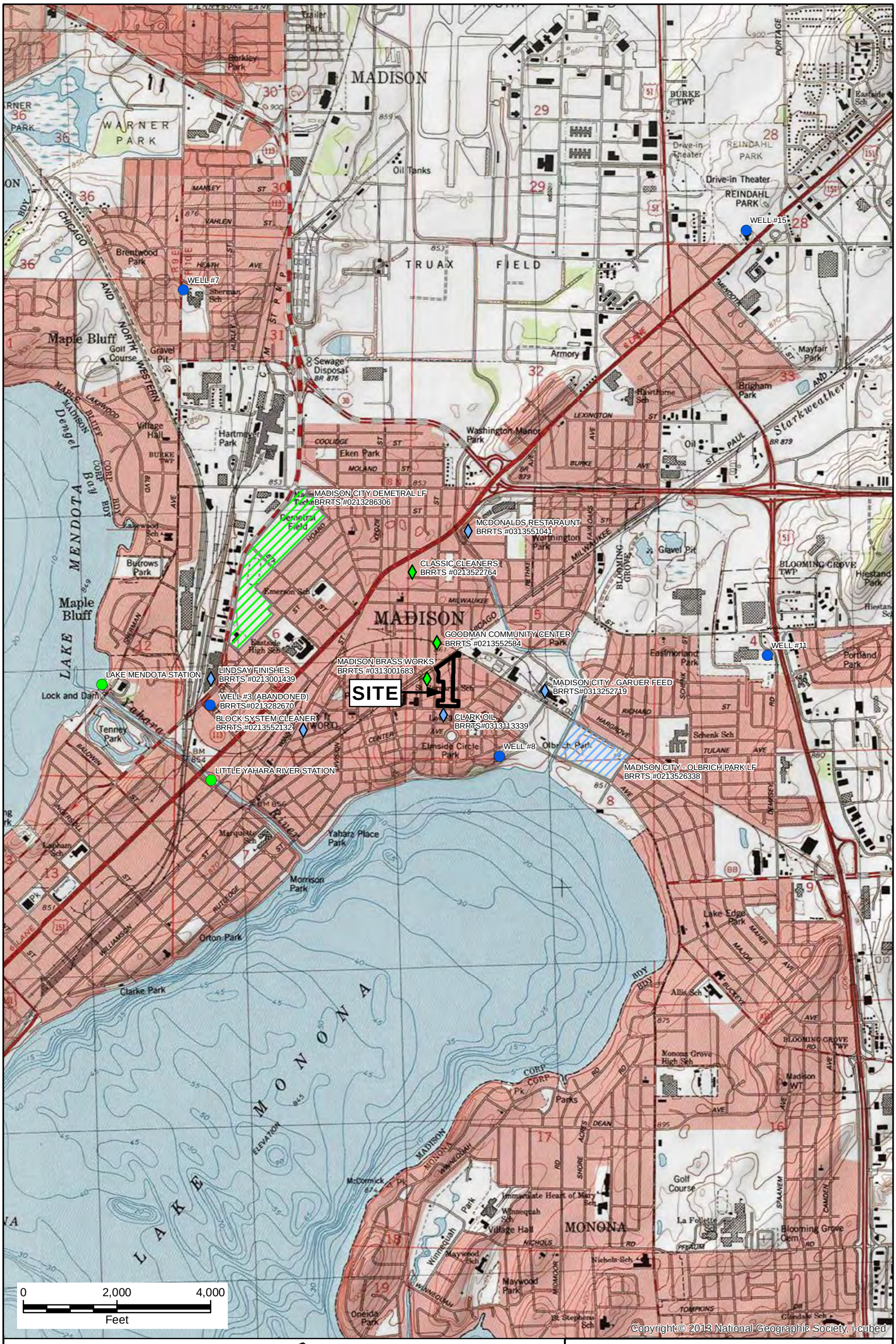
*IS = the internal standard quality control limit is exceeded

NE = criteria not established

Res. = residential

VOC = volatile organic compound

WI = Wisconsin



LEGEND

- OPEN SITE (ONGOING CLEANUP)
- OPEN SITE - SITE BOUNDARIES
- CLOSED SITE (COMPLETED CLEANUP)
- CLOSED SITE - SITE BOUNDARIES
- GAUGING STATION
- MUNICIPAL WATER SUPPLY WELL
- PROJECT BOUNDARY

NOTE:
TOPO BASE MAP OBTAINED FROM ESRI ONLINE MAPPING, USING ARCMAP 10, ACCESSED 1/29/2015
USGS 15' QUADRANGLE, MADISON EAST, WISCONSIN, 1983.

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MADISON, WISCONSIN
2014 ANNUAL REPORT

SITE LOCATION MAP

ARCADIS

FIGURE 1-1

CITY: MPLS DIV/GROUP: IM/DV DB: MG LD: CK MADISON-KIPP
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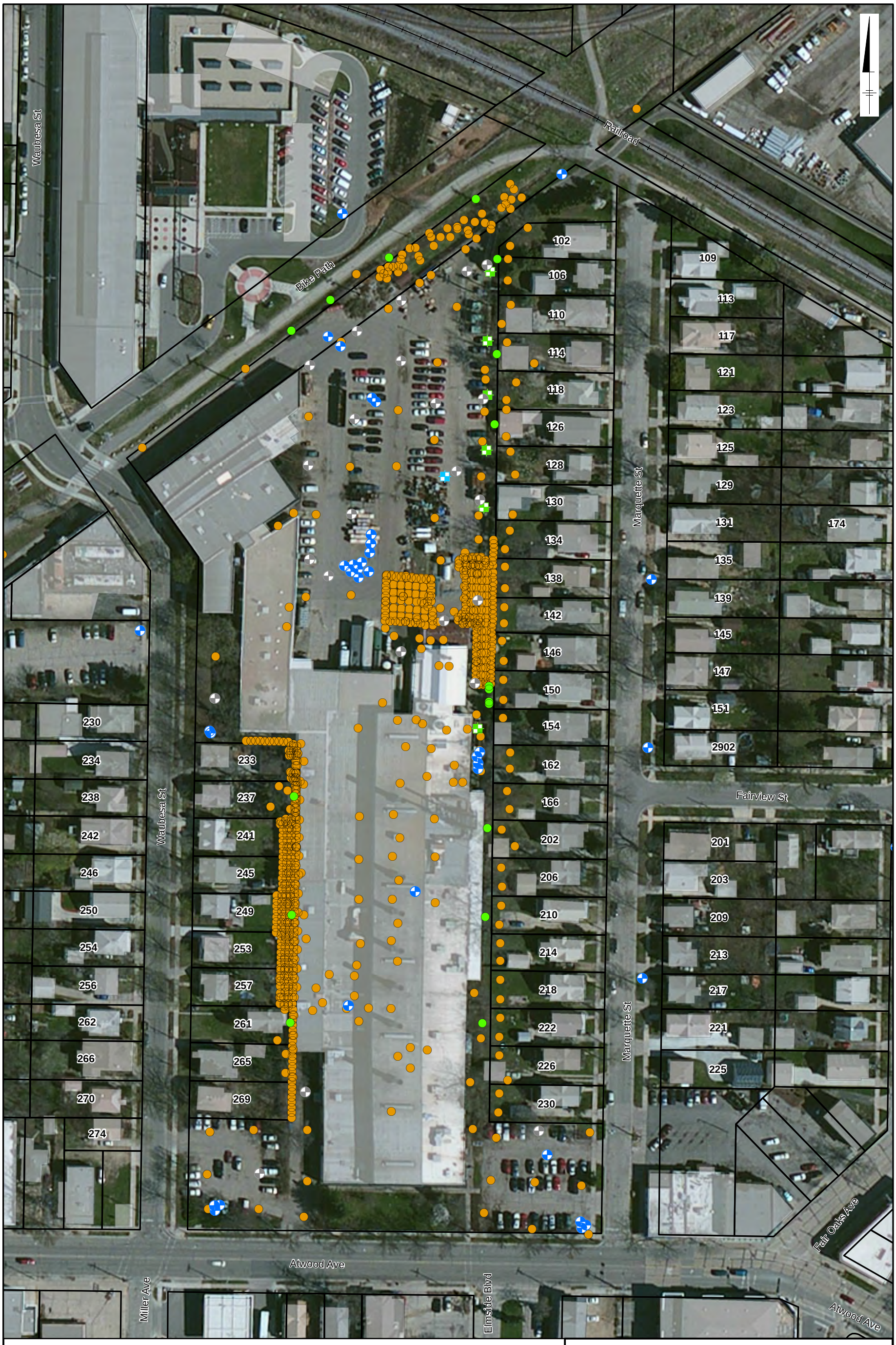

CITY: MKE DIV/GROUP: IM DB: GM LD: CK MADISON-KIPP
Z:\GISPROJECTS_ENV\MadisonKipp\ArcMap\2015-01\Fig2-1_Locations_20150129.mxd 1/29/2015, 10:37:55 AM

LEGEND

- MONITORING WELL
- TEMPORARY WELL
- SOIL VAPOR EXTRACTION WELL
- GROUNDWATER EXTRACTION WELL
- BORING SAMPLE
- VAPOR MONITORING POINT
- PARCELS
- BUILDING FOOTPRINTS

0 100 200
Feet

SERVICE LAYER CREDITS: SOURCE: ESRI, DIGITALGLOBE, GEOEYE, I-CUBED, USDA, USGS, AEX, GETMAPPING, AEROGRID, IGN, IGP, SWISSTOPO, AND THE GIS USER COMMUNITY

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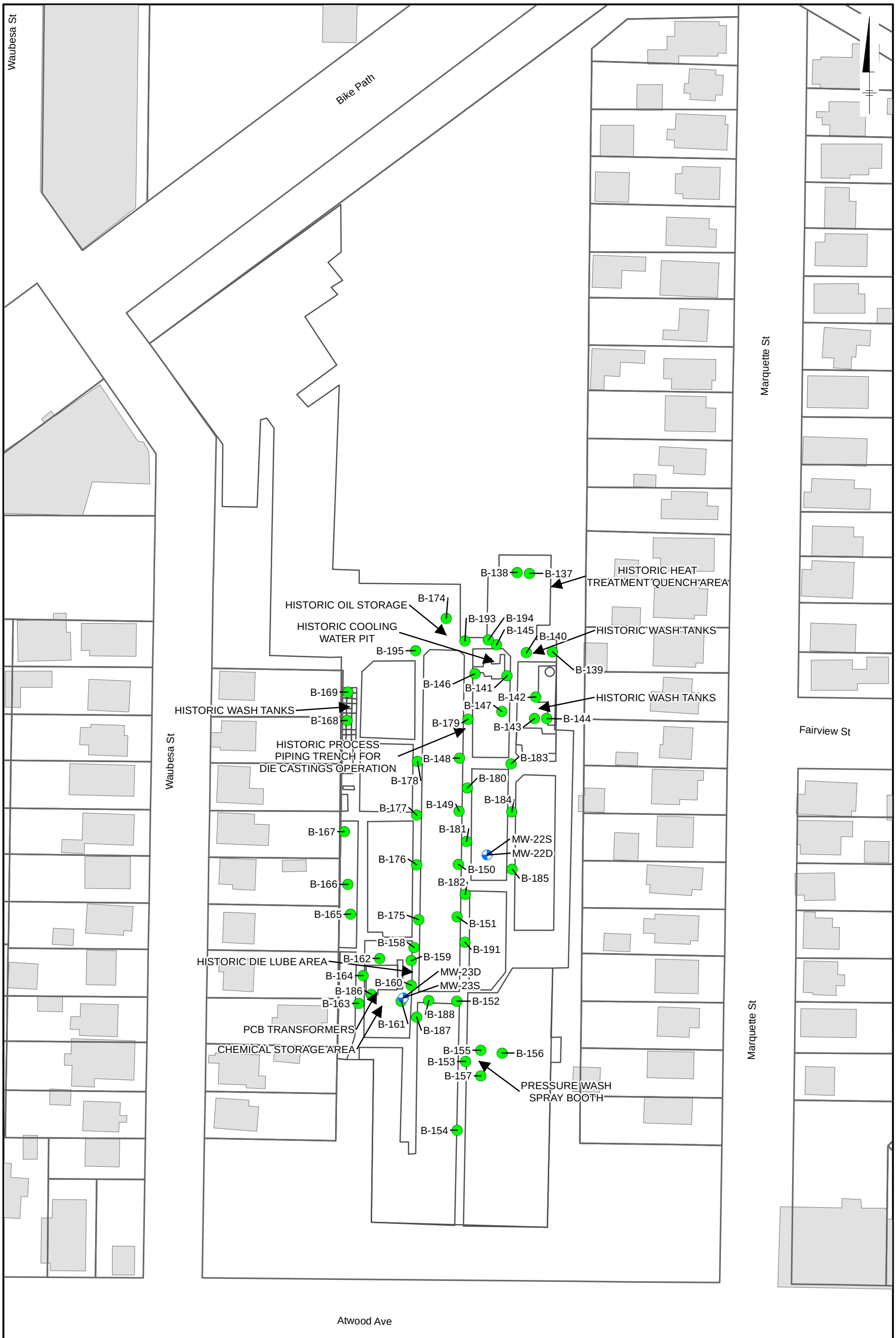
MADISON, WISCONSIN
2014 ANNUAL REPORT

ON-SITE SAMPLE LOCATIONS

ARCADIS

FIGURE 2-1



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MADISON, WISCONSIN
2014 ANNUAL REPORT

SOIL BORING AND WELL LOCATIONS BENEATH BUILDING

ARCADIS

FIGURE 2-2

CITY: MKE DIV/GROUP: IM DB: GM LD: CK MADISON-KIPP
Z:\GISPROJECTS_ENV\MadisonKipp\ArcMap\2015-01\Fig2-2_Interior_Locs_20150129.mxd 1/29/2015 10:44:39 AM

CLASSIC CLEANERS
BRRTS #0213522764

MW-27D
MW-27D2

MW-9D
MW-9D2
MP-15

MW-12S
MW-26S
MW-1
MP-13
MW-20D
MW-19D2
MW-3D3
GWE-1
MW-3D2
MW-19D
MW-3D
MW-20D2
MW-3S
MW-21D
MW-21D2
MW-18S
MW-10S
MP-14
MW-2S
MW-2D
MW-5D3
MW-5S
MW-7
MW-5D2
MW-5D
MP-16
MW-22D
MW-22S
MW-23D
MW-23S
MW-11S
MW-24
MW-4D2
MW-6S
MW-4D
MW-6D
MW-4S
MW-17

MW-25D
MW-25D2

UNIT
WELL 8

LAKE MONONA

0 350 700
Feet

LEGEND

- CLOSED SITE (COMPLETED CLEANUP)
- EXTRACTION WELL
- MUNICIPAL UNIT WELL 8
- MONITORING WELL

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MADISON, WISCONSIN

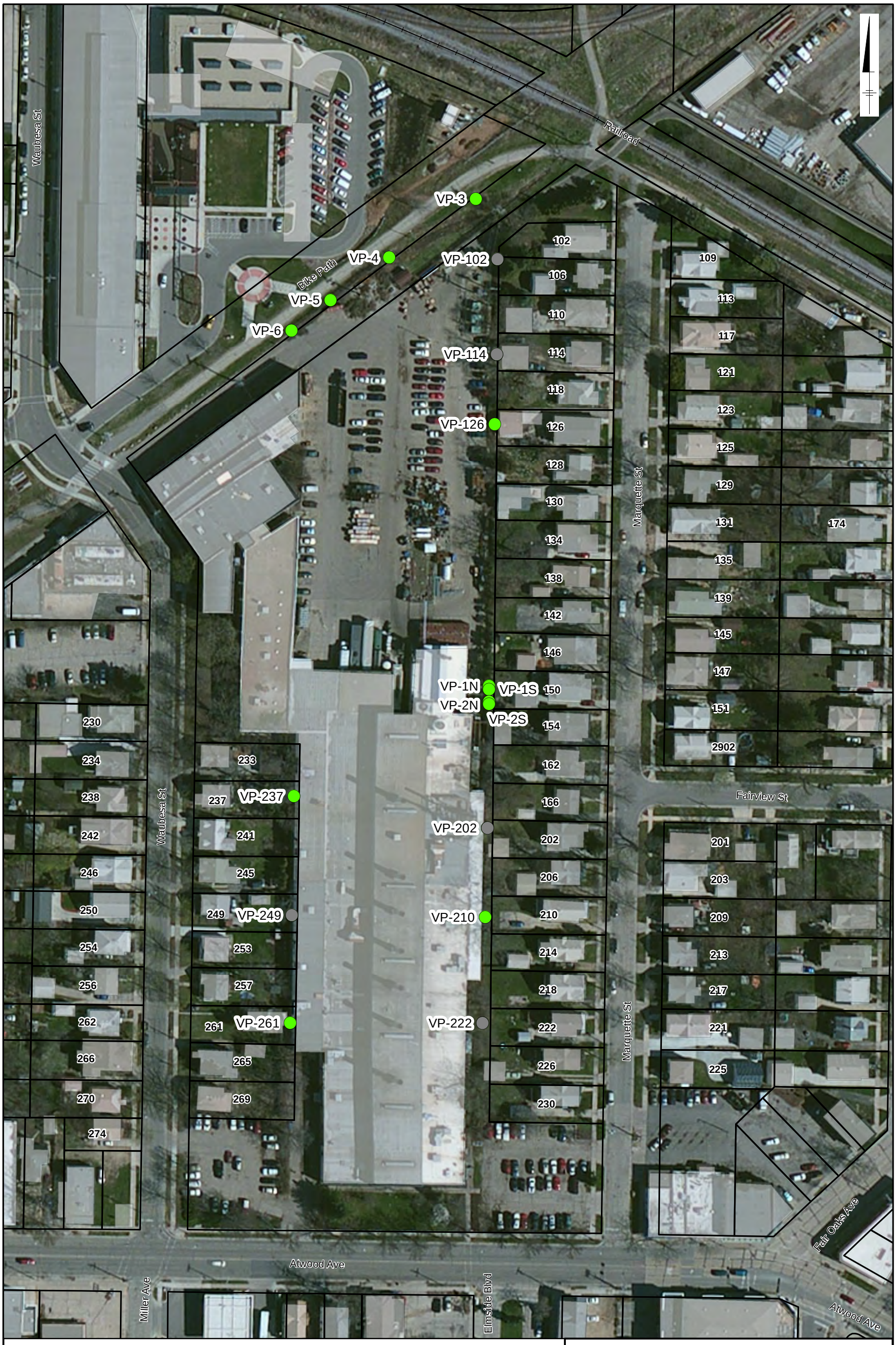
2014 ANNUAL REPORT

WELL LOCATIONS MAP

ARCADIS

FIGURE
2-3

CITY: MPLS DIV/GROUP: IM/DV DB: MG LD: TS MADISON-KIPP
Z:\GISPROJECTS_ENV\MadisonKipp\ArcMap\2015-02\Fig2-3_WellLocations_20150205.mxd



CITY: MKE DIV/GROUP: IM DB: GM LD: CK MADISON-KIPP
Z:\GISPROJECTS_ENV\MadisonKipp\ArcMap\2015-03\Fig2-4_SoilVaporProbe_20150317.mxd 3/17/2015, 9:08:15 AM

LEGEND

- VAPOR MONITORING POINT
- VAPOR MONITORING POINT EITHER COMPROMISED OR UNABLE TO BE LOCATED
- PARCELS
- BUILDING FOOTPRINTS

0 100 200
Feet

SERVICE LAYER CREDITS: SOURCE: ESRI, DIGITALGLOBE, GEOEYE, I-CUBED, USDA, USGS, AEX, GETMAPPING, AEROGRID, IGN, IGP, SWISSTOPO, AND THE GIS USER COMMUNITY

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2014 ANNUAL REPORT

SOIL VAPOR PROBE LOCATIONS

ARCADIS

FIGURE 2-4

CLASSIC CLEANERS
BRRTS #0213522764

A
MW-27D
MW-27D2
MW-9D
MW-9D2
MP-15
MW-12S
MW-26S
MW-1
MP-13
MW-19D2
GWE-1
MW-20D
MW-3D3
MW-3D2
MW-3D
MW-3S
MW-19D
MW-20D2
MW-21D
MW-21D2
MW-18S
MW-8
MW-10S
MP-14
B
MW-2S
MW-2D
MW-5D3
MW-5D2
MW-5S
MW-5D
MW-7
MP-16
B'
MW-22D
MW-22S
MW-23D
MW-23S
MW-11S
MW-24
MW-4D2
MW-4D
MW-4S
MW-6S
MW-6D
MW-17
MW-25D
MW-25D2
UNIT
WELL 8
A'

LAKE MONONA

0 350 700
Feet

LEGEND

- CLOSED SITE (COMPLETED CLEANUP)
- CROSS SECTION LOCATION
- EXTRACTION WELL
- MUNICIPAL UNIT WELL 8
- MONITORING WELL

MADISON-KIPP CORPORATION
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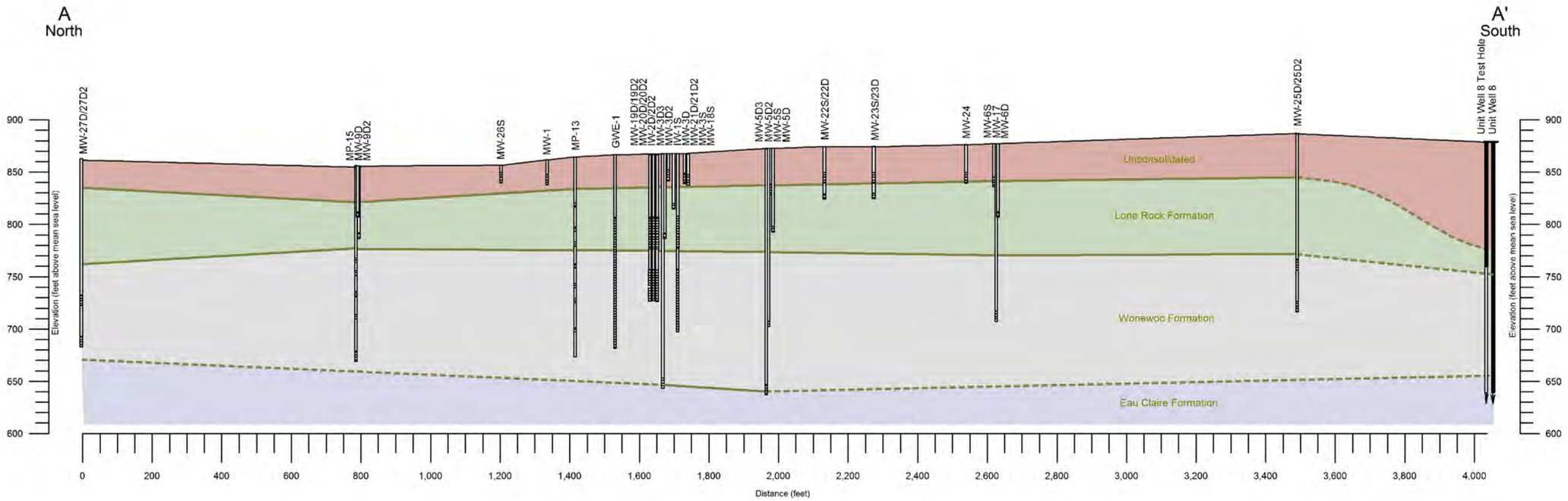
MADISON, WISCONSIN
2014 ANNUAL REPORT

LOCATION OF GEOLOGIC CROSS SECTIONS

ARCADIS

FIGURE
3-1

CITY: MPLS DIV/GROUP: IM/DV DB: MG LD: TS MADISON-KIPP
Z:\GISPROJECTS_ENV\MadisonKipp\ArcMap\2015-01\Fig3-1_XSectionLoc_20150129.mxd



Unconsolidated: Clay, trace silt, trace fine to medium sand, trace fine to subangular gravel, trace organics, high plasticity, medium stiff to stiff, moist, 10YR4/4 dark yellowish brown.
Sand, very fine to coarse grained, trace to little silt, trace fine to medium subangular to subround gravel, slightly cohesive, moist, 10YR5/4 yellowish brown.

Lone Rock Formation: sandstone, very fine to fine grained, subangular to subround, moderately hard to soft, poorly to well cemented, cross bedded, glauconitic.

Wonewoc Formation: sandstone, fine to medium grained, subround to round, soft to moderately hard, poorly to well cemented, planar to irregular bedding.

Eau Claire Formation: sandstone, very fine to fine grained, subround to round, hard, well cemented, undulating laminations to thin beds.

Well screen or multiport sample interval

Geologic Contact (dashed where inferred)

MADISON-KIPP CORPORATION
201 WAUBESA STREET
MADISON, WISCONSIN
2014 ANNUAL REPORT

GEOLOGIC CROSS SECTION A-A'

ARCADIS

FIGURE 3-2

CITY: MPLS DIV/GROUP: IM/DV DB: MG LD: TS MADISON-KIPP
Z:\GISPROJECTS_ENV\MadisonKipp\ArcMap\2015-01\Fig3-2_CrossSectionA-A_20150129.mxd

CLASSIC CLEANERS
BRRTS #0213522764

MW-27D
MW-27D2

MW-25D
MW-25D2

MW-12S (857.01)
MW-26S (848.70)
MW-1 (847.97)
MW-10S (847.07)
MW-3S (846.96)
MW-18S (847.16)
MW-2S (846.75)
MW-22S (846.32)
MW-23S (846.61)
MW-24 (846.05)
MW-4S (847.04)
MW-6S (845.89)
MW-8 (846.63)
MW-7 (846.27)
MW-11S (845.85)

MP-13
MP-14
MP-15
MP-16
MW-9D
MW-9D2
MW-17
MW-6D
MW-19D2
MW-19D
MW-3D3
MW-3D2
MW-3D
MW-20D2
MW-20D
MW-21D
MW-21D2
MW-2D
MW-5S
MW-5D3
MW-5D
MW-5D2
MW-22D
MW-23D
MW-4D
MW-4D2

UNIT WELL 8

857
855
853
851
849
848
847
846

0 350 700
Feet

LAKE MONONA

LEGEND

- CLOSED SITE (COMPLETED CLEANUP)
- MUNICIPAL UNIT WELL 8
- MONITORING WELL
- INFERRED GROUNDWATER FLOW DIRECTION
- 851 GROUNDWATER CONTOUR INTERVAL (DASHED WHERE INFERRED)
- (847.04) GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)

WATER TABLE ENCOUNTERED BETWEEN APPROXIMATELY 2 - 33 FEET BELOW LAND SURFACE WITH SCREEN ELEVATIONS RANGING FROM 857 - 834 FEET ABOVE MEAN SEA LEVEL

MADISON-KIPP CORPORATION
201 WAUBESA STREET
MADISON, WISCONSIN

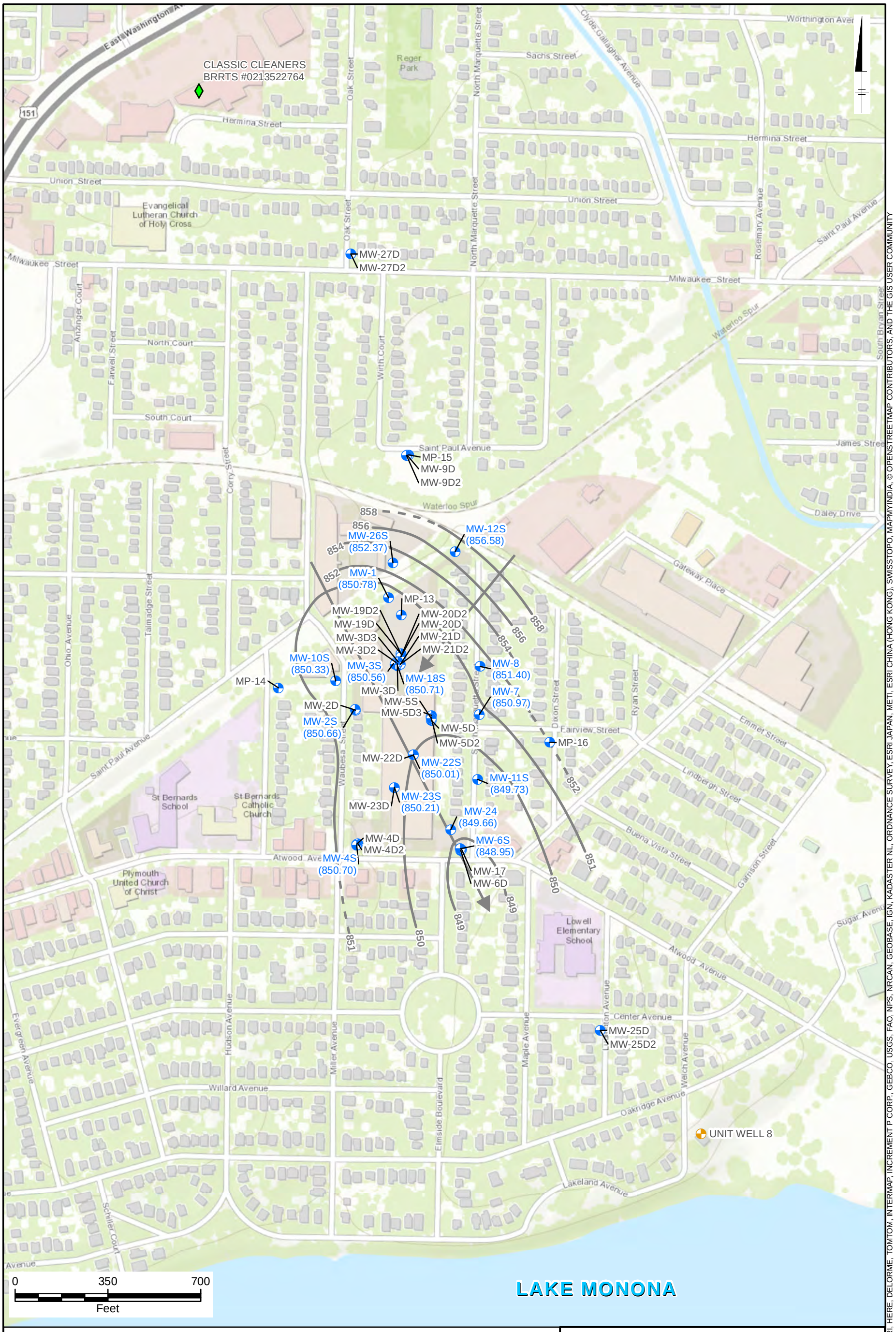
2014 ANNUAL REPORT

WATER TABLE ELEVATION MAP, APRIL 2014

ARCADIS

FIGURE 3-3

CITY: MPLS DIV/GROUP: IM/DV DB: MG LD: TS MADISON-KIPP
Z:\GISPROJECTS_ENV\MadisonKipp\ArcMap\2015-01\Fig3-3_WT_Elev_April14_20150129.mxd



LEGEND

- CLOSED SITE (COMPLETED CLEANUP)
- MUNICIPAL UNIT WELL 8
- MONITORING WELL
- INFERRED GROUNDWATER FLOW DIRECTION
- 852 GROUNDWATER CONTOUR INTERVAL (DASHED WHERE INFERRED)
- (850.70) GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)

WATER TABLE ENCOUNTERED BETWEEN APPROXIMATELY 2 - 33 FEET BELOW LAND SURFACE WITH SCREEN ELEVATIONS RANGING FROM 857 - 834 FEET ABOVE MEAN SEA LEVEL

MADISON-KIPP CORPORATION
201 WAUBESA STREET
MADISON, WISCONSIN

2014 ANNUAL REPORT

WATER TABLE ELEVATION MAP, JULY 2014

ARCADIS

FIGURE 3-4

CITY: MPLS DIV/GROUP: IM/DV DB: MG LD: TS MADISON-KIPP
Z:\GISPROJECTS_ENV\MadisonKipp\ArcMap\2015-01\Fig3-4_WT_Elev_July14_20150129.mxd

CLASSIC CLEANERS
BRRTS #0213522764

MW-27D
MW-27D2

MP-15
MW-9D
MW-9D2

MW-26S
(849.45)

MW-12S
(851.90)

MW-1
(849.64)

MP-13

MW-19D2
MW-19D
MW-3D3
MW-3D2
MW-20D2
MW-20D
MW-21D
MW-21D2
MW-3S
(849.20)
MW-18S
(849.33)
MW-3D

MW-10S
(849.11)

MP-14

MW-8
(849.13)

MW-2D
MW-2S
(849.18)

MW-5S
MW-5D3
MW-5D
MW-5D2

MW-7
(849.04)

MP-16

MW-22D
MW-22S
(848.84)

MW-11S
(848.68)

MW-23S
(849.42)
MW-23D

MW-24

MW-4D
MW-4D2
MW-4S
(850.21)

MW-6S
(848.95)
MW-17
MW-6D

MW-25D
MW-25D2

UNIT WELL 8

LAKE MONONA

0 350 700
Feet

LEGEND

- CLOSED SITE (COMPLETED CLEANUP)
- MUNICIPAL UNIT WELL 8
- MONITORING WELL
- INFERRED GROUNDWATER FLOW DIRECTION
- 850 GROUNDWATER CONTOUR INTERVAL (DASHED WHERE INFERRED)
- (850.21) GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)

WATER TABLE ENCOUNTERED BETWEEN APPROXIMATELY 2 - 33 FEET BELOW LAND SURFACE WITH SCREEN ELEVATIONS RANGING FROM 857 - 834 FEET ABOVE MEAN SEA LEVEL

MADISON-KIPP CORPORATION
201 WAUBESA STREET
MADISON, WISCONSIN

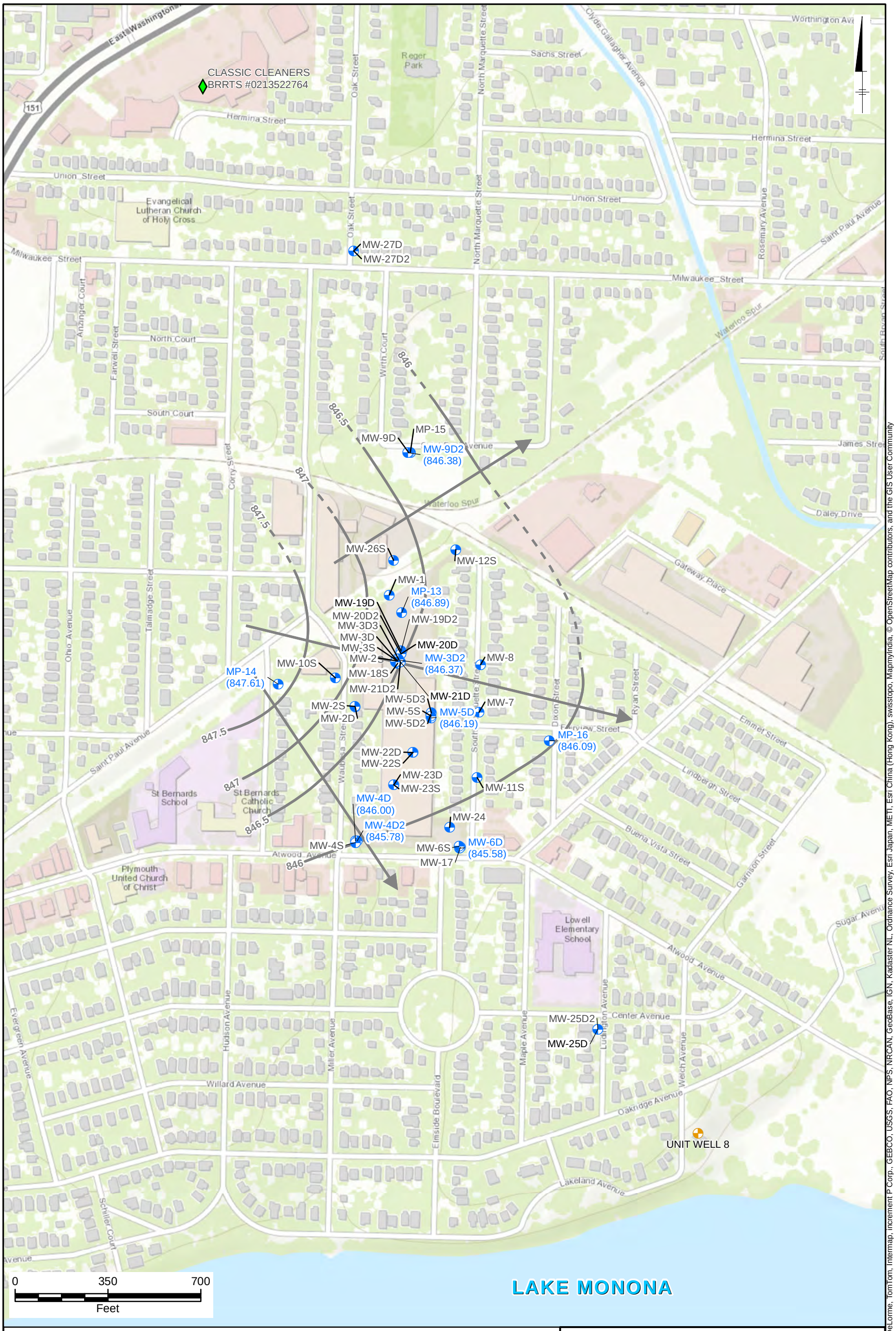
2014 ANNUAL REPORT

WATER TABLE ELEVATION MAP, OCTOBER 2014

ARCADIS

FIGURE 3-5

CITY: MPLS DIV/GROUP: IM/DV DB: MG LD: TS MADISON-KIPP
Z:\GISPROJECTS_ENV\MadisonKipp\ArcMap\2015-01\Fig3-5_WT_Elev_Oct14_20150129.mxd



LEGEND

- CLOSED SITE (COMPLETED CLEANUP)
- MUNICIPAL UNIT WELL 8
- MONITORING WELL
- INFERRED GROUNDWATER FLOW DIRECTION
- 846 — GROUNDWATER CONTOUR INTERVAL (DASHED WHERE INFERRED)
- (845.78) GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)

LOWER LONE ROCK FORMATION WATER LEVELS ENCOUNTERED BETWEEN APPROXIMATELY 7 - 33 FEET BELOW LAND SURFACE WITH SCREENS RANGING FROM 816 - 777 FEET ABOVE MEAN SEA LEVEL

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MADISON, WISCONSIN

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LOWER LONE ROCK FORMATION POTENTIOMETRIC SURFACE MAP, APRIL 2014

ARCADIS

FIGURE 3-6

CITY: MKE DIV/GROUP: IM DB: GM LD: CK MADISON-KIPP
Z:\GISPROJECTS_ENV\MadisonKipp\ArcMap\2015-01\Fig3-6_LLR_PS_April14_20150129.mxd

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CLASSIC CLEANERS
BRRTS #0213522764

MW-27D
MW-27D2

MW-9D2
(848.97)
MP-15
MW-9D

MW-26S
MW-1
MW-19D2
MW-19D
MW-3D3
MW-3D2
(849.54)
MW-3S
MW-3D
MW-10S
MP-14
(851.09)
MW-2D
MW-2S
MW-5D
(849.89)
MW-5S
MW-5D3
MW-5D2
MW-22S
MW-22D
MW-23S
MW-23D
MW-4D2
(849.11)
MW-4S
MW-4D
(849.72)
MW-24
MW-17
MW-6S
MW-6D
(848.94)
MW-12S
MP-13
(849.63)
MW-20D2
MW-20D
MW-21D
MW-21D2
MW-18S
MW-8
MW-7
MW-11S
MP-16
(849.27)
MW-25D
MW-25D2
UNIT WELL 8

849
849.5
850
850.5
851

LAKE MONONA

0 350 700
Feet

LEGEND

- CLOSED SITE (COMPLETED CLEANUP)
- MUNICIPAL UNIT WELL 8
- MONITORING WELL
- INFERRED GROUNDWATER FLOW DIRECTION
- 851 GROUNDWATER CONTOUR INTERVAL (DASHED WHERE INFERRED)
- (849.72) GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)

LOWER LONE ROCK FORMATION WATER LEVELS ENCOUNTERED BETWEEN APPROXIMATELY 7 - 33 FEET BELOW LAND SURFACE WITH SCREENS RANGING FROM 816 - 777 FEET ABOVE MEAN SEA LEVEL

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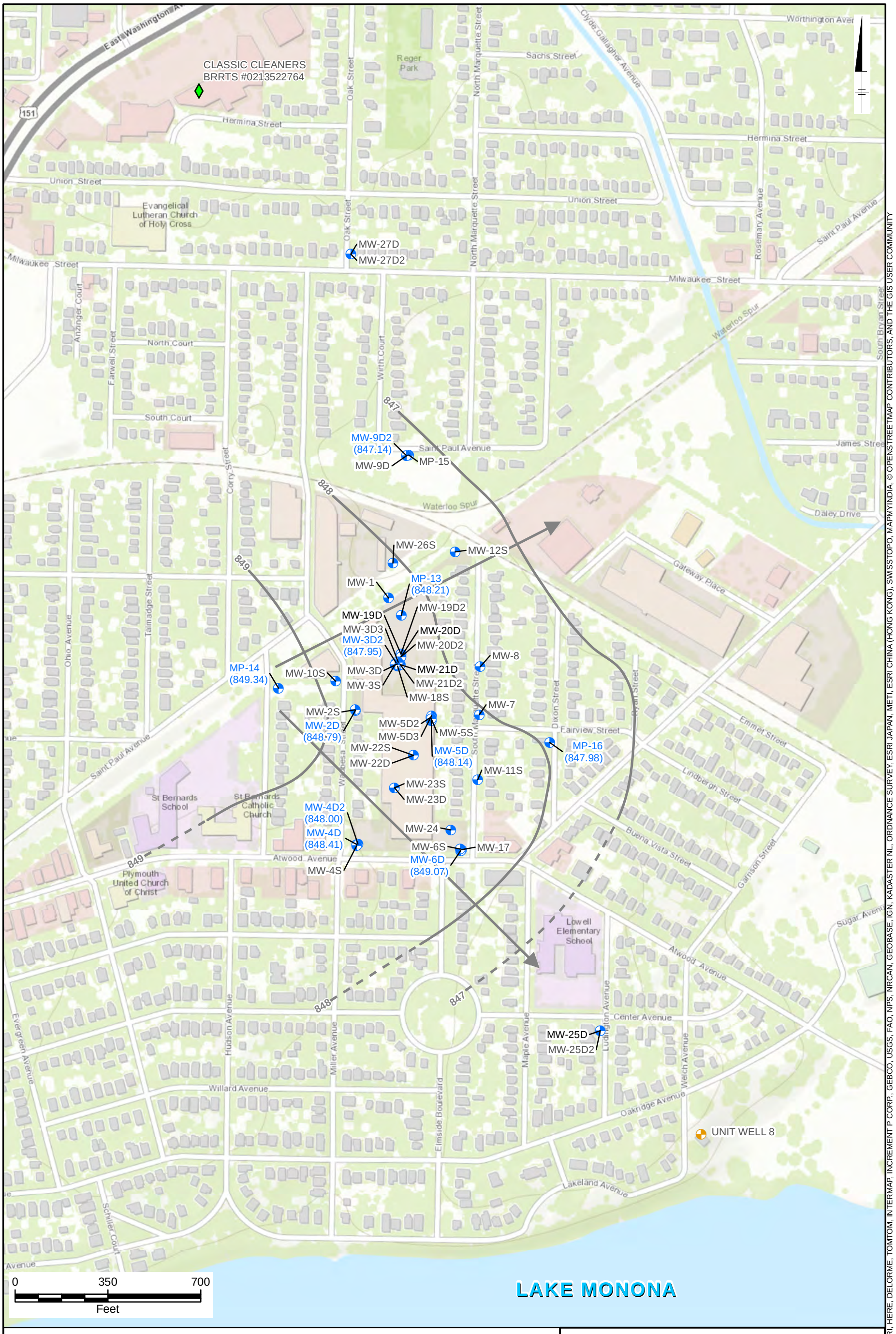
2014 ANNUAL REPORT

LOWER LONE ROCK FORMATION POTENTIOMETRIC SURFACE MAP, JULY 2014

ARCADIS

FIGURE 3-7

CITY: MPLS DIV/GROUP: IM/DV DB: MG LD: TS MADISON-KIPP
Z:\GISPROJECTS_ENV\MadisonKipp\ArcMap\2015-01\Fig3-7_LLR_PS_July14_20150129.mxd



LEGEND

- CLOSED SITE (COMPLETED CLEANUP)
- MUNICIPAL UNIT WELL 8
- MONITORING WELL
- INFERRED GROUNDWATER FLOW DIRECTION
- 848 GROUNDWATER CONTOUR INTERVAL (DASHED WHERE INFERRED)
- (848.04) GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)

LOWER LONE ROCK FORMATION WATER LEVELS ENCOUNTERED BETWEEN APPROXIMATELY 7 - 33 FEET BELOW LAND SURFACE WITH SCREENS RANGING FROM 816 - 777 FEET ABOVE MEAN SEA LEVEL

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MADISON, WISCONSIN

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LOWER LONE ROCK FORMATION POTENTIOMETRIC SURFACE MAP, OCTOBER 2014

ARCADIS

FIGURE 3-8

CITY: MPLS DIV/GROUP: IM/DV DB: MG LD: TS MADISON-KIPP
Z:\GISPROJECTS_ENV\MadisonKipp\ArcMap\2015-02\Fig3-8_LLR_PS_Oct14_20150205.mxd

LEGEND

- CLOSED SITE (COMPLETED CLEANUP)
- MUNICIPAL UNIT WELL 8
- MONITORING WELL
- INFERRED GROUNDWATER FLOW DIRECTION
- 846 GROUNDWATER CONTOUR INTERVAL (DASHED WHERE INFERRED)
- (845.69) GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)

UPPER WONEWOC FORMATION WATER LEVELS ENCOUNTERED BETWEEN APPROXIMATELY 8 - 42 FEET BELOW LAND SURFACE WITH SCREEN ELEVATIONS RANGING FROM 768 - 698 FEET ABOVE MEAN SEA LEVEL

MADISON-KIPP CORPORATION
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MADISON, WISCONSIN

2014 ANNUAL REPORT

UPPER WONEWOC FORMATION POTENTIOMETRIC SURFACE MAP, APRIL 2014

ARCADIS

FIGURE 3-9

CITY: MPLS DIV/GROUP: IM/DV DB: MG LD: TS MADISON-KIPP
Z:\GISPROJECTS_ENV\MadisonKipp\ArcMap\2015-02\Fig3-9_UWF_PS_April14_20150219.mxd

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CLASSIC CLEANERS
BRRTS #0213522764

MW-27D
MW-27D2

MW-9D
MW-9D2

MP-15
(847.44)

MW-26S
MW-12S
MW-1
MP-13
(847.15)
MW-19D
MW-20D
MW-19D2
MW-20D2
MW-21D
MW-3D2
MW-21D2
MW-3D3
MW-3D
MW-3S
MW-18S
MW-8
MW-10S
MP-14
(847.77)
MW-2S
MW-2D
MW-5D3
MW-5D2
MW-5S
MW-5D
MW-7
MP-16
(846.75)
MW-22S
MW-22D
MW-23S
MW-23D
MW-11S
MW-24
MW-4D2
MW-4D
MW-4S
MW-6S
MW-6D
MW-17
(844.85)
MW-25D2
(844.77)
MW-25D
UNIT WELL 8

847.5
847
846.5
846
845.5
845

LAKE MONONA

0 350 700
Feet

LEGEND

- CLOSED SITE (COMPLETED CLEANUP)
- MUNICIPAL UNIT WELL 8
- MONITORING WELL
- INFERRED GROUNDWATER FLOW DIRECTION
- 847 GROUNDWATER CONTOUR INTERVAL (DASHED WHERE INFERRED)
- (846.17) GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)

UPPER WONEWOC FORMATION WATER LEVELS ENCOUNTERED BETWEEN APPROXIMATELY 8 - 42 FEET BELOW LAND SURFACE WITH SCREEN ELEVATIONS RANGING FROM 768 - 698 FEET ABOVE MEAN SEA LEVEL

MADISON-KIPP CORPORATION
201 WAUBESA STREET
MADISON, WISCONSIN
2014 ANNUAL REPORT

UPPER WONEWOC FORMATION POTENTIOMETRIC SURFACE MAP, JULY 2014

ARCADIS

FIGURE 3-10

SERVICE LAYER CREDITS: SOURCES: ESRI, HERE, DELORME, TOMTOM, INTERMAP, INCREMENT P CORP., GEBCO, USGS, FAO, NPS, NRCAN, GEOBASE, IGN, KADASTER NL, ORDNANCE SURVEY, ESRI JAPAN, METI, ESRI CHINA (HONG KONG), SWISSTOPO, MAPMYINDIA, © OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY

CITY: MPLS DIV/GROUP: IM/DV DB: MG LD: TS MADISON-KIPP
Z:\GISPROJECTS_ENV\MadisonKipp\ArcMap\2015-02\Fig3-10_UWF_PS_July14_20150220.mxd

CLASSIC CLEANERS
BRRTS #0213522764

MW-27D
MW-27D2

MW-9D
MW-9D2

MP-15
(846.37)

MW-26S
MW-12S

MP-13
(846.15)

MW-1
MW-19D
MW-20D
MW-19D2
MW-20D2
MW-3D3
MW-21D
MW-3D2
MW-8
MW-10S
MW-21D2
MP-14
(846.56)
MW-3D
MW-3S
MW-18S
MW-2S
MW-2D
MW-5D3
MW-7
MW-5S
MW-5D2
MW-5D
MW-22S
MW-22D
MP-16
(845.75)
MW-11S
MW-23S
MW-23D
MW-24
MW-4D
MW-4D2
MW-4S
MW-6S
MW-17
(845.03)
MW-6D

MW-25D2
(844.39)
MW-25D

UNIT WELL 8

846.5
846
845.5
845
844.5
844

LAKE MONONA

0 350 700
Feet

LEGEND

- CLOSED SITE (COMPLETED CLEANUP)
- MUNICIPAL UNIT WELL 8
- MONITORING WELL
- INFERRED GROUNDWATER FLOW DIRECTION
- 845 — GROUNDWATER CONTOUR INTERVAL (DASHED WHERE INFERRED)
- (845.46) GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)

UPPER WONEWOC FORMATION WATER LEVELS ENCOUNTERED BETWEEN APPROXIMATELY 8 - 42 FEET BELOW LAND SURFACE WITH SCREEN ELEVATIONS RANGING FROM 768 - 698 FEET ABOVE MEAN SEA LEVEL

MADISON-KIPP CORPORATION
201 WAUBESA STREET
MADISON, WISCONSIN

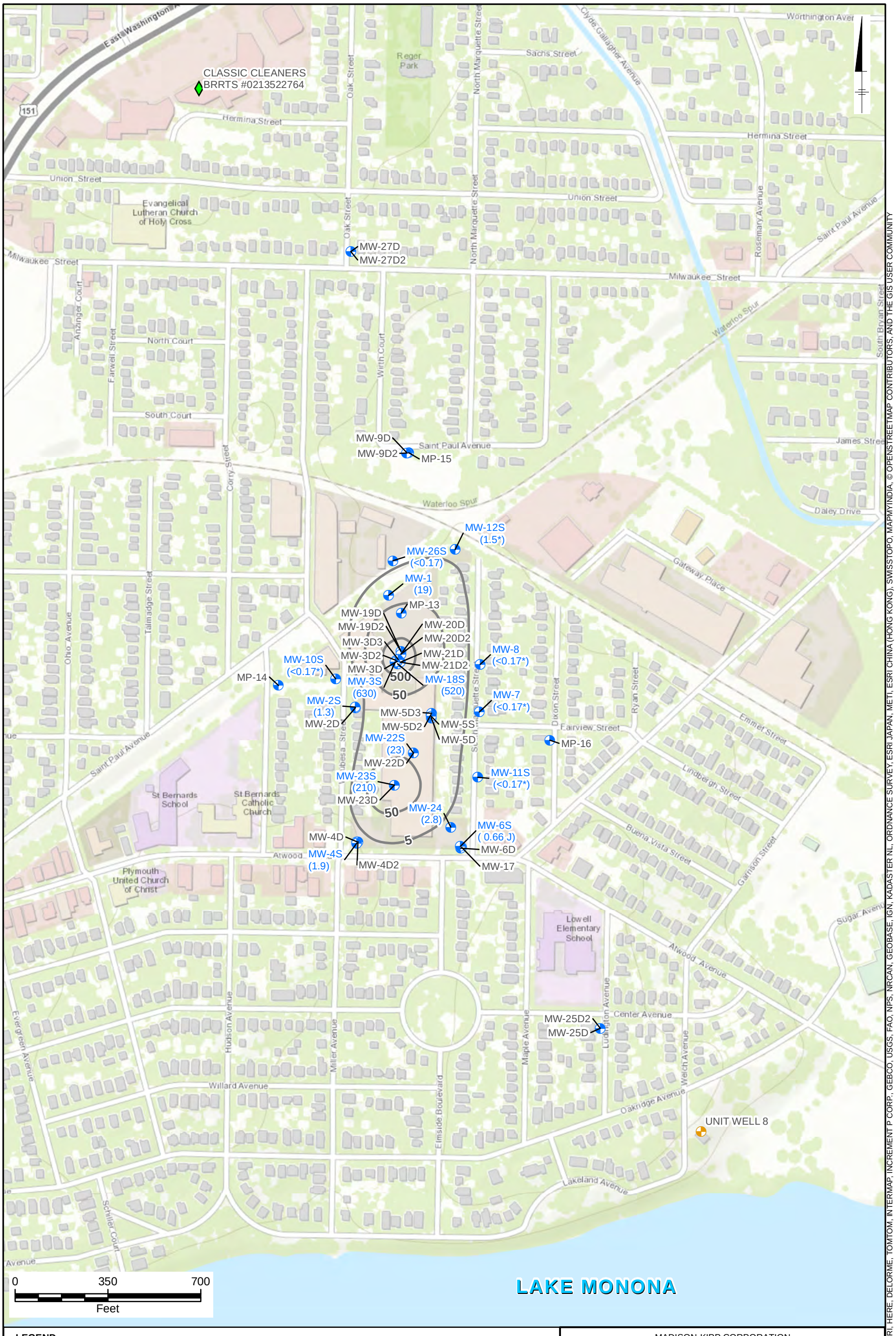
2014 ANNUAL REPORT

UPPER WONEWOC FORMATION POTENTIOMETRIC SURFACE MAP, OCTOBER 2014

ARCADIS

FIGURE 3-11

CITY: MPLS DIV/GROUP: IM/DV DB: MG LD: TS MADISON-KIPP
Z:\GISPROJECTS_ENV\MadisonKipp\ArcMap\2015-02\Fig3-11_UWF_PS_Oct14_20150220.mxd



LEGEND

- CLOSED SITE (COMPLETED CLEANUP)
- MUNICIPAL UNIT WELL 8
- MONITORING WELL
- (630) TETRACHLOROETHENE CONCENTRATIONS ARE REPORTED IN MICROGRAMS PER LITER (µg/L).
- —5— TETRACHLOROETHENE ISOCONCENTRATION CONTOUR (DASHED WHERE INFERRED)

* TETRACHLOROETHENE CONCENTRATION FROM 2013, MONITORING WELL NO LONGER SAMPLED SINCE GROUNDWATER VOC CONCENTRATIONS HAVE CONSISTENTLY BEEN REPORTED BELOW LABORATORY DETECTION LIMITS OR NR 140 ENFORCEMENT STANDARDS

THE WATER TABLE IS INTERPRETTED TO BE FROM APPROXIMATELY 2 - 50 FEET BELOW LAND SURFACE OR 887 - 821 FEET ABOVE MEAN SEA LEVEL

MADISON-KIPP CORPORATION
201 WAUBESA STREET
MADISON, WISCONSIN

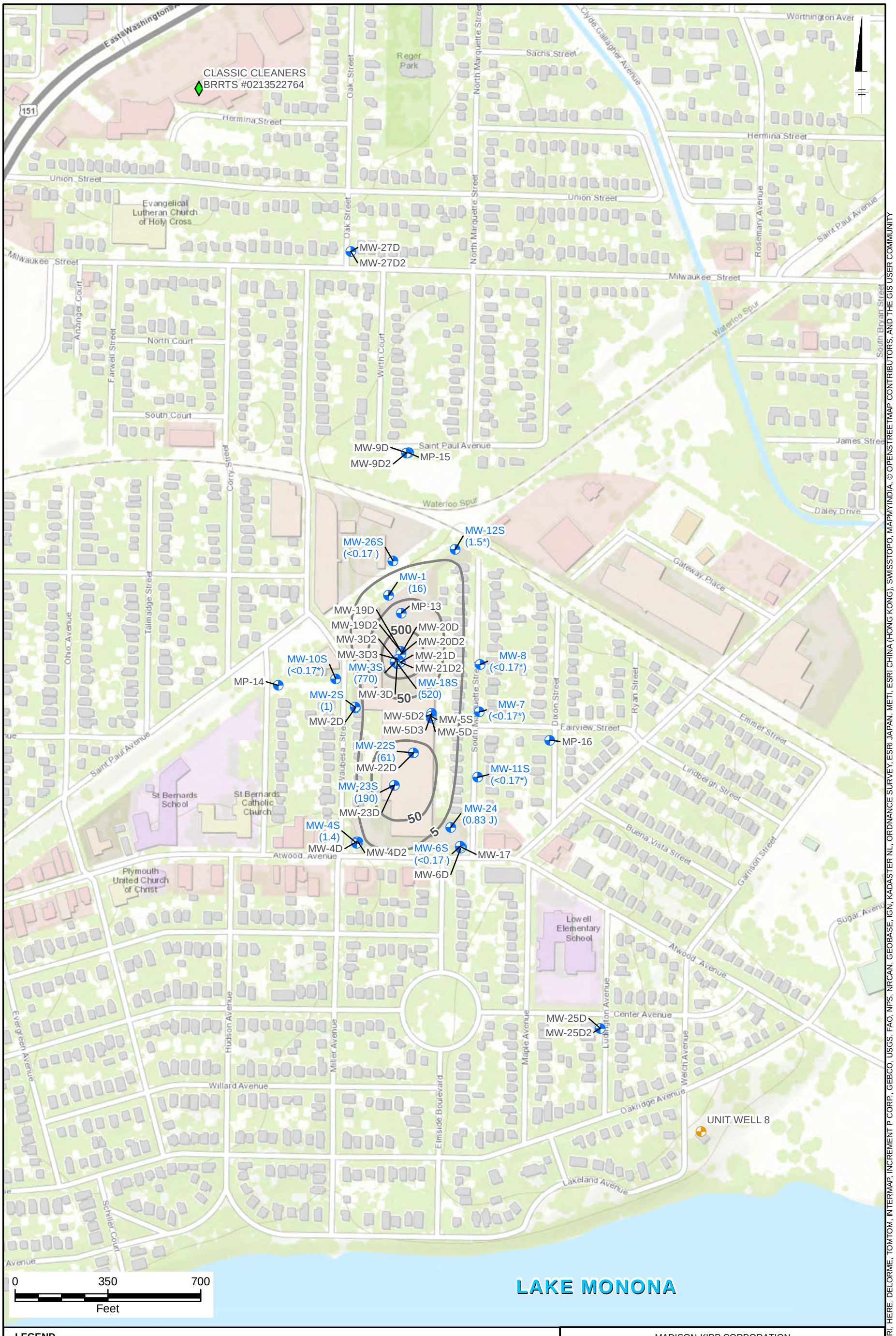
2014 ANNUAL REPORT

WATER TABLE TETRACHLOROETHENE ISOCONCENTRATION MAP, APRIL 2014

ARCADIS

FIGURE 4-1

CITY: MPLS DIV/GROUP: IM/DV DB: MG LD: TS MADISON-KIPP
Z:\GISPROJECTS_ENV\MadisonKipp\ArcMap\2015-03\Fig4-1_WT_PCE_April14_20150320.mxd



LEGEND

- CLOSED SITE (COMPLETED CLEANUP)
- MUNICIPAL UNIT WELL 8
- MONITORING WELL
- (520) TETRACHLOROETHENE CONCENTRATIONS ARE REPORTED IN MICROGRAMS PER LITER (µg/L).
- —5— TETRACHLOROETHENE ISOCONCENTRATION CONTOUR

* TETRACHLOROETHENE CONCENTRATION FROM 2013, MONITORING WELL NO LONGER SAMPLED SINCE GROUNDWATER VOC CONCENTRATIONS HAVE CONSISTENTLY BEEN REPORTED BELOW LABORATORY DETECTION LIMITS OR NR 140 ENFORCEMENT STANDARDS

THE WATER TABLE IS INTERPRETTED TO BE FROM APPROXIMATELY 2 - 50 FEET BELOW LAND SURFACE OR 887 - 821 FEET ABOVE MEAN SEA LEVEL

MADISON-KIPP CORPORATION
201 WAUBESA STREET
MADISON, WISCONSIN

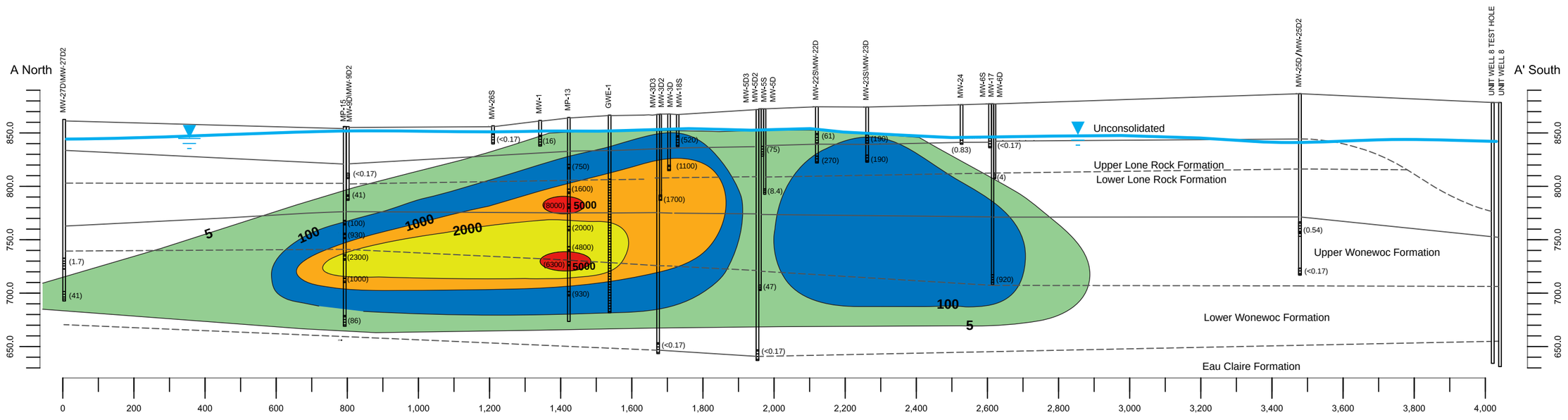
2014 ANNUAL REPORT

WATER TABLE TETRACHLOROETHENE ISOCONCENTRATION MAP, OCTOBER 2014

ARCADIS

FIGURE 4-2

CITY: MPLS DIV/GROUP: IM/DV DB: MG LD: TS MADISON-KIPP
Z:\GISPROJECTS_ENV\MadisonKipp\ArcMap\2015-02\Fig4-2_WT_PCE_Oct14_20150220.mxd



LEGEND

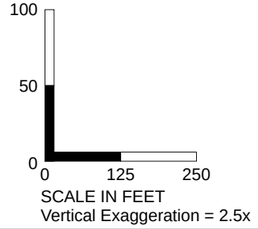
- Well Screen or Multiport Sample Interval
- Water Table
- (18) Tetrachloroethene (micrograms per liter (µg/L))
- Geologic Contact (dash where inferred)

Tetrachloroethene Isoconcentration (µg/L)

- 5-99
- 100-999
- 1000 - 1999
- 2000 - 4999
- 5000+

Notes:

1. Unit well 8 is cased from ground surface to 280 feet below grade, and an open bedrock borehole from 280 to 774 feet below grade. Casing is below the Eau Claire Shale Aquitard. Test hole is cased from the ground surface to 107 feet below grade and on open bedrock borehole from 107 to 590 feet below grade.



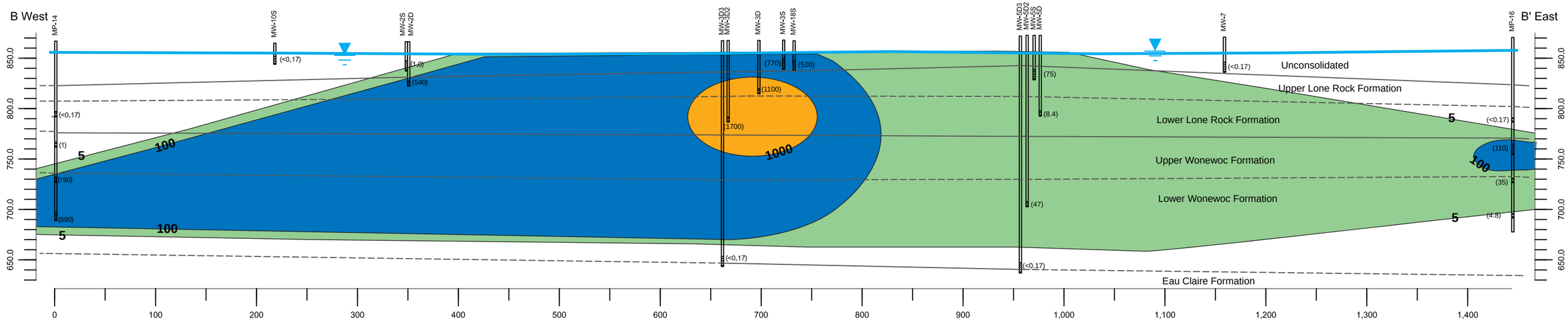
MADISON-KIPP CORPORATION
201 WAUBESA STREET
MADISON, WISCONSIN
2014 ANNUAL REPORT

TETRACHLOROETHENE ISOCONCENTRATION CROSS SECTIONAL VIEW A-A'
OCTOBER 2014

ARCADIS

FIGURE
4-3

20MAR15\ENVIRONMENT\TEYTSLMB
MADISONKPP\WI001368\2015\GRAPHICS\FIG 4-3 - TETRACHLOROETHENE ISO CONCENTRATION.AI



LEGEND

- Well Screen or Multiport Sample Interval
- Water Table
- (18) Tetrachloroethene (micrograms per liter (µg/L))
- Geologic Contact (dash where inferred)

Tetrachloroethene Isoconcentration (µg/L)

- 5-99
- 100-999
- 1000 - 1999

Notes:

1. Unit well 8 is cased from ground surface to 280 feet below grade, and an open bedrock borehole from 280 to 774 feet below grade. Casing is below the Eau Claire Shale Aquitard. Test hole is cased from the ground surface to 107 feet below grade and on open bedrock borehole from 107 to 590 feet below grade.

100
50
0
0 50 100
SCALE IN FEET
Vertical Exaggeration = 2.5x

MADISON-KIPP CORPORATION
201 WAUBESA STREET
MADISON, WISCONSIN
2014 ANNUAL REPORT

TETRACHLOROETHENE ISOCONCENTRATION CROSS SECTIONAL VIEW B-B'
OCTOBER 2014

ARCADIS

FIGURE
4-4

20MAR15\ENVIRONMENT\TET'S\LMB
MADISON\KPPWI\001368\2015\GRAPHICS\FIG 4-4 - TETRACHLOROETHENE ISO CONCENTRATION 3-2-15.AI

CLASSIC CLEANERS
BRRTS #0213522764

MW-27D
MW-27D2

MW-9D
(<0.17)
MW-9D2
(41)
MP-15

MW-12S
MW-26S
MP-13
(8000)
MW-1
MW-20D2
MW-20D
(1100)
MW-19D2
MW-19D
(1,500)
MW-3D3
MW-3D2
(1700)
MW-21D
(1200)
MW-8
MP-14
(<0.17)
MW-10S
MW-3D
MW-21D2
MW-3S
MW-18S
MW-2D
MW-2S
MW-5S
(75)
MW-7
MW-5D3
MW-5D2
MW-5D
(8.4)
MW-22S
MW-22D
MW-11S
MW-23S
MW-23D
(190)
MW-24
MW-4D2
(1)
MW-4D
MW-4S
MW-6S
MW-17
MW-6D
(4)

MW-25D
(0.54 J)
MW-25D2

UNIT WELL 8

5000
500
50
5

LAKE MONONA

0 350 700
Feet

LEGEND

- CLOSED SITE (COMPLETED CLEANUP)
- MUNICIPAL UNIT WELL 8
- MONITORING WELL
- (1,500) TETRACHLOROETHENE CONCENTRATIONS ARE REPORTED IN MICROGRAMS PER LITER (µg/L).
- —5— TETRACHLOROETHENE ISOCONCENTRATION CONTOUR (DASHED WHERE INFERRED)

HIGHEST CONCENTRATION FROM MULTI-PORT WELL LOCATIONS IS REPORTED IN FIGURE AND WAS USED FOR CONTOURING PURPOSES.

THE LOWER LONE ROCK FORMATION IS INTERPRETTED TO BE FROM APPROXIMATELY 65 - 120 FEET BELOW LAND SURFACE OR 818 - 781 FEET ABOVE MEAN SEA LEVEL

MADISON-KIPP CORPORATION
201 WAUBESA STREET
MADISON, WISCONSIN

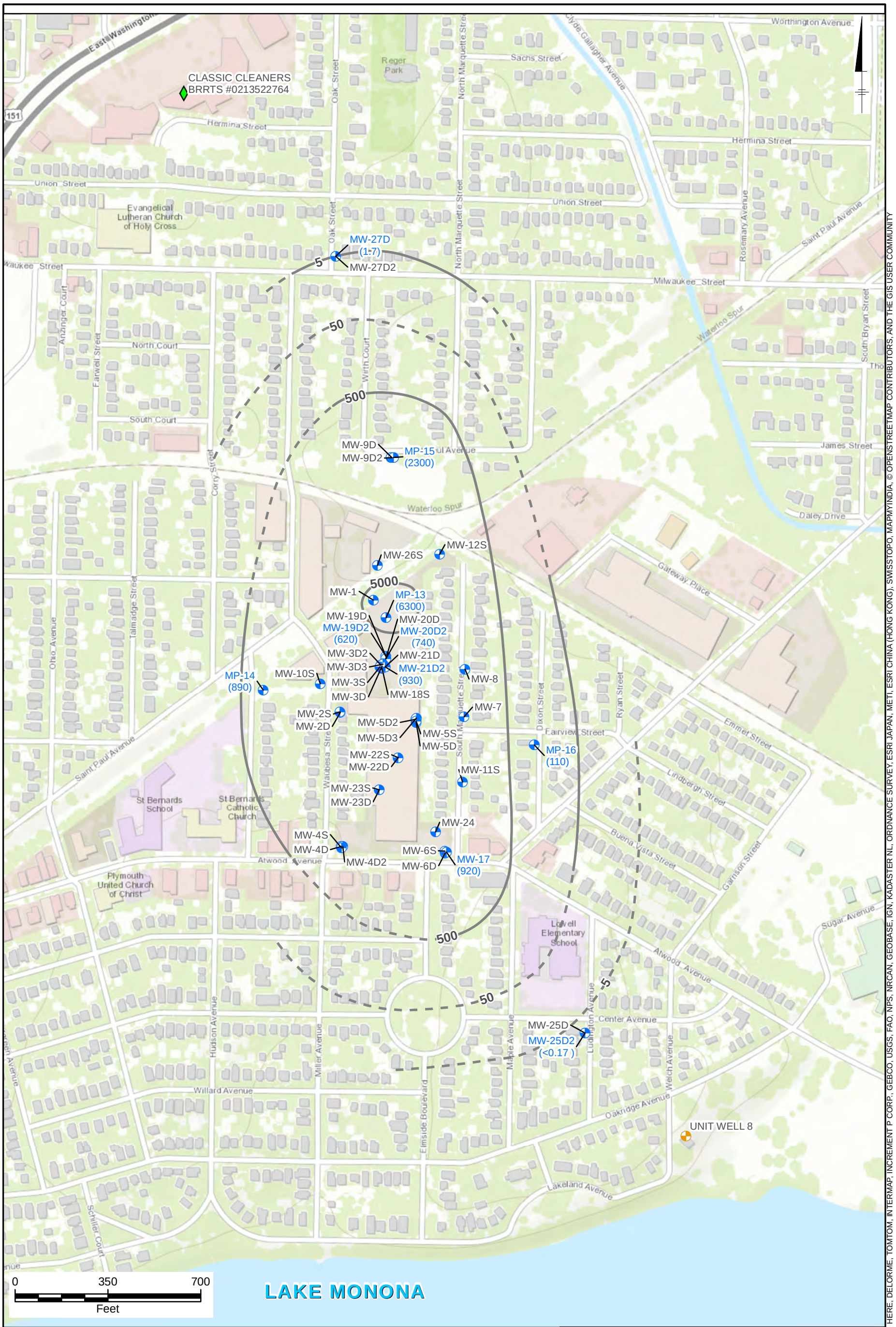
2014 ANNUAL REPORT

LOWER LONE ROCK FORMATION TETRACHLOROETHENE ISOCONCENTRATION MAP, OCTOBER 2014

ARCADIS

FIGURE 4-5

CITY: MPLS DIV/GROUP: IM/DV DB: MG LD: TS MADISON-KIPP
Z:\GISPROJECTS_ENV\MadisonKipp\ArcMap\2015-02\Fig4-5_LLR_PCE_Oct14_20150220.mxd



LEGEND

- CLOSED SITE (COMPLETED CLEANUP)
- MUNICIPAL UNIT WELL 8
- MONITORING WELL
- (6,500) TETRACHLOROETHENE CONCENTRATIONS ARE REPORTED IN MICROGRAMS PER LITER (µg/L).
- —5— TETRACHLOROETHENE ISOCONCENTRATION CONTOUR (DASHED WHERE INFERRED)
- HIGHEST CONCENTRATION FROM MULTI-PORT WELL LOCATIONS IS REPORTED IN FIGURE AND WAS USED FOR CONTOURING PURPOSES.

THE UPPER WONEWOC FORMATION IS INTERPRETTED TO BE FROM APPROXIMATELY 87 - 139 FEET BELOW LAND SURFACE OR 767 - 690 FEET ABOVE MEAN SEA LEVEL

MADISON-KIPP CORPORATION
201 WAUBESA STREET
MADISON, WISCONSIN

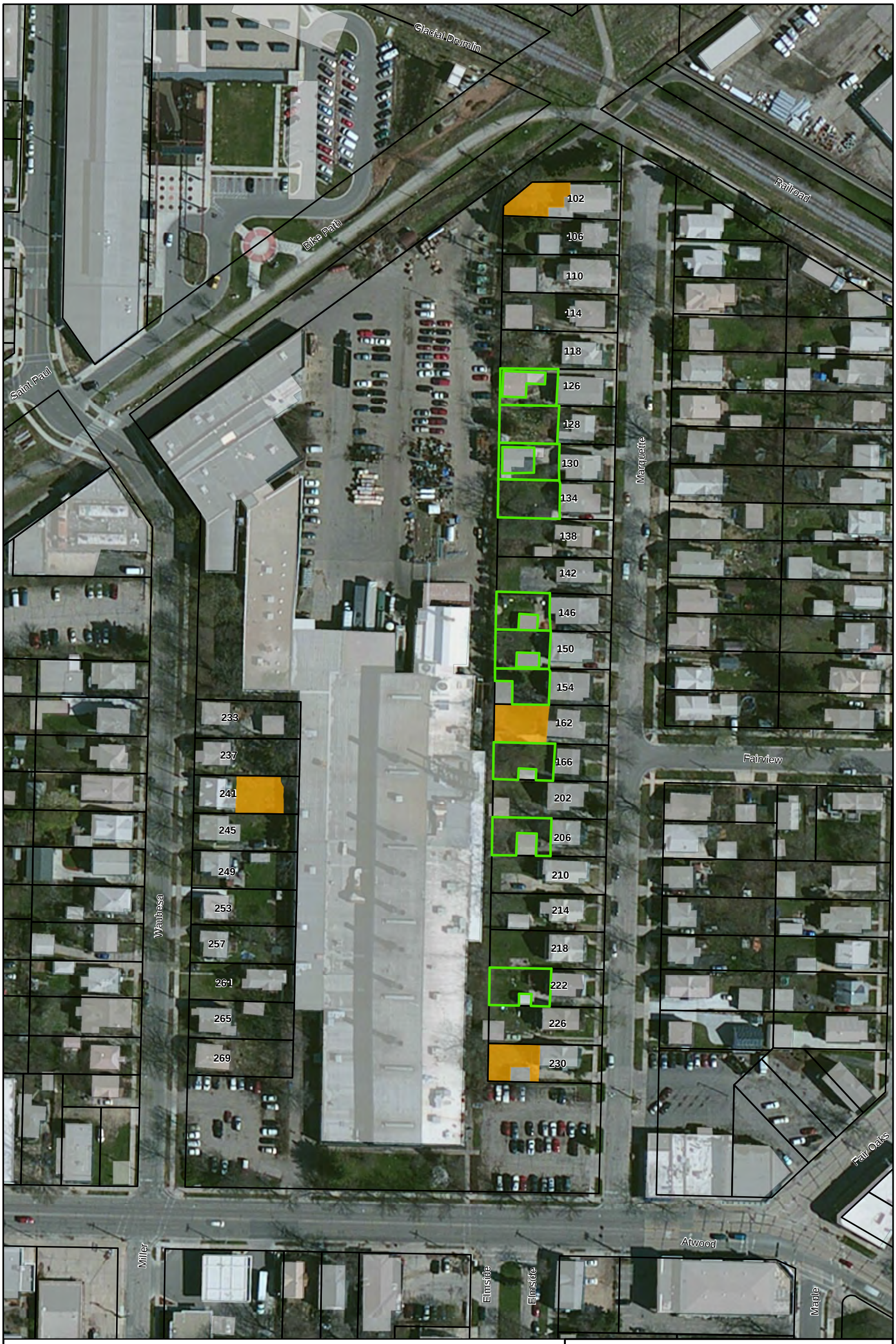
2014 ANNUAL REPORT

UPPER WONEWOC FORMATION TETRACHLOROETHENE ISOCONCENTRATION MAP, OCTOBER 2014

ARCADIS

FIGURE 4-6

CITY: MPLS DIV/GROUP: IM/DV DB: MG LD: TS MADISON-KIPP
Z:\GISPROJECTS_ENV\MadisonKipp\ArcMap\2015-03\Fig4-6_UWF_PCE_Oct14_20150320.mxd



LEGEND

- BACKYARD EXCAVATION TO 1 FT, AS PRACTICABLE
- NEW SOD ONLY
- PARCELS
- BUILDING FOOTPRINTS

0 100 200
Feet

NOTES:
1. AERIAL IMAGERY OBTAINED FROM BING IMAGERY SERVICE THROUGH ESRI ONLINE MAPPING, ACCESSED 3/20/2015

MADISON-KIPP
201 WAUBESA STREET
MADISON, WI
2014 ANNUAL REPORT

RESIDENTIAL EXCAVATION AREAS

ARCADIS

FIGURE 5-1

CITY: MPLS DIV/GROUP: IM DB: MG LD: CK
MADISON-KIPP
Path: Z:\GIS\PROJECTS_ENV\MadisonKipp\ArcMap\2015-03\Res_Excavation_20150317.mxd