

Table 2-1. Well Construction Details, 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	816.49	44	48	200	4	Bedrock	9/30/2012	Rotary & Hollow Stem Auger	Boart Longyear	6	2	PVC	Westbay Multiport Well
			797.49	793.49	67	71		4								
			783.49	779.49	81	85		4								
			743.49	739.49	121	125		4								
			729.49	725.49	135	139		4								
701.49	697.49	163	167	4												
MP-14	866.88	867.28	796.88	791.88	70	75	200	5	Bedrock	10/22/2012	Rotary & Hollow Stem Auger	Boart Longyear	6	2	PVC	Westbay Multiport Well
			766.88	761.88	100	105		5								
			731.88	726.88	135	140		5								
MP-15	855.98	855.50	696.88	688.88	170	178	200	8	Bedrock	12/11/2012	Rotary & Hollow Stem Auger	Boart Longyear	6	2	PVC	Westbay Multiport Well
			767.98	763.98	88	92		4								
			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								

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Table 2-1. Well Construction Details, 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-16	870.68	870.17	790.68	786.68	80	84		4									
			764.68	754.68	106	116	200	10	Bedrock	11/30/2012	Rotary & Hollow Stem Auger	Boart Longyear	6	2	PVC	Westbay Multiport Well	
			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	

amsl Above mean sea level.
 bls Below land surface.
 PVC Polyvinyl chloride

Table 2-2. Groundwater Elevations 2004 -2013, 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	10/03/12	14-24	861.71	861.08	11.42	849.66	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
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

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Table 2-2. Groundwater Elevations 2004 -2013, 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	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-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
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

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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	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
MW-3S	10/03/13	19 - 29	867.87	867.41	17.78	849.63	Unconsolidated
MW-3D	05/01/04	48 - 53	867.68	867.25	23.64	843.61	Upper Lone Rock
MW-3D	07/01/04	48 - 53	867.68	867.25	19.82	847.43	Upper Lone Rock
MW-3D	10/01/04	48 - 53	867.68	867.25	21.32	845.93	Upper Lone Rock
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

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Table 2-2. Groundwater Elevations 2004 -2013, 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-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-3D2	05/01/04	76 - 81	867.58	867.39	24.65	842.74	Lower Lone Rock
MW-3D2	07/01/04	76 - 81	867.58	867.39	21.03	846.36	Lower Lone Rock
MW-3D2	10/01/04	76 - 81	867.58	867.39	22.43	844.96	Lower 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
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

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Table 2-2. Groundwater Elevations 2004 -2013, 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	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-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-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
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

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Table 2-2. Groundwater Elevations 2004 -2013, 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	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-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
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-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

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Table 2-2. Groundwater Elevations 2004 -2013, 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-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-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

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Table 2-2. Groundwater Elevations 2004 -2013, 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	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-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
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-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

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Table 2-2. Groundwater Elevations 2004 -2013, 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	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
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-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-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

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Table 2-2. Groundwater Elevations 2004 -2013, 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	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
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-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

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Table 2-2. Groundwater Elevations 2004 -2013, 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	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
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-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-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-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-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-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-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

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Table 2-2. Groundwater Elevations 2004 -2013, 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-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-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
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	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	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	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	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	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

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Table 2-2. Groundwater Elevations 2004 -2013, 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	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-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	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	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	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-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	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	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	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
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

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Table 2-2. Groundwater Elevations 2004 -2013, 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	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-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	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	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	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
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-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
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-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-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-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

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Table 2-2. Groundwater Elevations 2004 -2013, 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-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-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-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-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-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-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-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-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-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-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

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Table 2-2. Groundwater Elevations 2004 -2013, 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-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-26S	10/03/13	6.8-16.8	857.51	856.61	7.15	849.46	Unconsolidated
MW-27D	12/26/13	130-140	862.96	862.65	17.25	845.40	Lower Wonewoc
MW-27D2	12/26/13	170-180	862.96	862.59	17.18	845.41	Lower Wonewoc
IW-1S	11/30/12	16 - 26	867.82	867.62	22.16	845.46	Unconsolidated
IW-1S	04/15/13	16 - 26	867.82	867.62	19.11	848.51	Unconsolidated
IW-1S	07/15/13	16 - 26	867.82	867.62	15.05	852.57	Unconsolidated
IW-2D	11/30/12	60 - 90	867.57	866.61	21.61	845.00	Lower Lone Rock
IW-2D	11/30/12	60 - 90	867.57	866.61	21.61	845.00	Lower Lone Rock
IW-2D	07/15/13	60 - 90	867.57	866.61	17.65	848.96	Lower Lone Rock
IW-2D2	11/30/12	110 - 140	867.57	866.57	22.77	843.80	Upper Wonewoc
IW-2D2	04/15/13	110 - 140	867.57	866.57	20.05	846.52	Upper Wonewoc
IW-2D2	07/15/13	110 - 140	867.57	866.57	16.68	849.89	Upper Wonewoc
amsl	Above mean sea level.						
bls	Below land surface.						
btoc	Below top of casing.						

Table 3-1. Vertical Gradients 2004-2013, 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
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

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Table 3-1. Vertical Gradients 2004-2013, 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	04/09/12	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
Average					0.021	down	
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

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Table 3-1. Vertical Gradients 2004-2013, 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	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
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
				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

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Table 3-1. Vertical Gradients 2004-2013, 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	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
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
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

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Table 3-1. Vertical Gradients 2004-2013, 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	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
Average					0.038	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
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
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

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Table 3-1. Vertical Gradients 2004-2013, 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	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
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
Average					0.085	down	
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

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Table 3-1. Vertical Gradients 2004-2013, 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	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
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
				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

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Table 3-1. Vertical Gradients 2004-2013, 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
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

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Table 3-1. Vertical Gradients 2004-2013, 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	12/01/10	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
Average					0.021	down	
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

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Table 3-1. Vertical Gradients 2004-2013, 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	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
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
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
Average					-0.001	up	

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Table 3-1. Vertical Gradients 2004-2013, 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	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
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

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Table 3-1. Vertical Gradients 2004-2013, 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
Average					0.019	down	
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
Average					0.027	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
Average					0.007	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

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Table 3-1. Vertical Gradients 2004-2013, 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	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
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
Average					0.019	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
Average					0.081	down	
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

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Table 3-1. Vertical Gradients 2004-2013, 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	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
Average					0.008	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
Average					0.080	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
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

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Table 3-1. Vertical Gradients 2004-2013, 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	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
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
Average					0.028	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
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
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
Average					0.010	down	

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Table 3-1. Vertical Gradients 2004-2013, 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-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
Average					-0.044	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
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
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
Average					0.007	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
Average					-0.0002	up	

amsl Above mean sea level.
 bls Below land surface.

Table 4-1. Off-Site Soil Analytical Results, Madison-Kipp Corporation, Madison, Wisconsin.

Boring ID Sample Date Sample Interval (feet bls)	Non-Industrial	Industrial	Soil to Groundwater Pathway RCL	MW-26S		MW-27		
	Direct Contact	Direct Contact		8/21/2013	8/21/2013	11/18/2013	11/18/2013	11/18/2013
	RCL	RCL		2-4	7-9	2-4	8-10	13-15
VOCs (mg/kg)								
VOCs	NE	NE	NE	ND	ND	ND	ND	ND
PAHs (mg/kg)								
Acenaphthylene	487	487	NE	<0.0088	<0.0091	0.0081 J	<0.0054	<0.0048
Anthracene	17,200	100,000	196.74	<0.0090	<0.0093	0.018 J	<0.0069	<0.0061
Benzo(a)Anthracene	0.148	2.11	NE	<0.0080	<0.0083	0.083	<0.0056	<0.0049
Benzo(a)Pyrene	0.0148	0.211	0.47	<0.0070	0.011 J	0.08	<0.008	<0.007
Benzo(b)fluoranthene	0.148	2.11	0.48	0.01 J	0.013 J	0.097	<0.0089	<0.0078
Benzo(g,h,i)Perylene	NE	NE	NE	<0.013	0.014 J	0.063	<0.013	<0.012
Benzo(k)Fluoranthene	1.48	21.1	NE	<0.0091	<0.0095	0.053	<0.012	<0.011
Chrysene	14.8	211	0.1451	<0.0086	<0.0090	0.085	<0.011	<0.0099
Dibenzo(a,h)Anthracene	0.0148	0.211	NE	<0.011	0.012 J	0.013 J	<0.008	<0.007
Fluoranthene	2,290	22,000	88.82	<0.016	<0.016	0.17	<0.0077	<0.0067
Indeno(1,2,3-cd)Pyrene	0.148	2.11	NE	<0.013	0.013 J	0.053	<0.011	<0.0094
Phenanthrene	115	115	NE	<0.016	<0.017	0.085	<0.0058	<0.0051
Pyrene	1,720	16,500	54.47	<0.014	<0.014	0.11	<0.0082	<0.0072
Total Detected PAHs	NE	NE	NE	0.01	0.063	0.9181	ND	ND

Only detected constituents are noted. Please refer to laboratory reports for a complete list of constituents and results.

- 100** Exceeds the WDNR's non-industrial direct contact residual contaminant level.
- 100** Exceeds the WDNR's industrial direct contact residual contaminant level.
- 100** Exceeds the WDNR's soil to groundwater pathway residual contaminant level.
- < Constituent not detected above noted laboratory detection limit.
- J Constituent concentration is an approximate value.
- bls Below land surface.
- mg/kg Milligrams per kilogram.
- NE Criteria not established.
- ND Not detected.
- PAHs Polycyclic Aromatic Hydrocarbons.
- RCL Residual contaminant level.
- VOCs Volatile Organic Compounds.
- WDNR Wisconsin Department of Natural Resources.

Table 4-2. Groundwater Vertical Aquifer Profiling Analytical Results, Madison-Kipp Corporation, Madison, Wisconsin.

Sample ID	Preventive	Enforcement	MW-25						
Sample Date	Action	Standard	4/8/2013	4/8/2013	4/9/2013	4/9/2013	4/11/2013	4/11/2013	4/12/2013
Sample Interval (feet bls)	Limit		64-70	80-90	100-110	120-130	140-150	160-170	180-190
VOCs (µg/L)									
cis-1,2-Dichloroethene	7	70	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
Methyl-Tert-Butylether	12	60	<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
Naphthalene	10	100	<0.16	<0.16	3	<0.16	<0.16	<0.16	<0.16
Tetrachloroethene	0.5	5	0.47 J	<0.17	2	3	<0.17	<0.17	<0.17
Toluene	160	800	0.29 J	2	1	3	1	1	0.43 J
Trichloroethene	0.5	5	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
Total Xylenes	400	2,000	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068

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

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

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

< Constituent not detected above noted laboratory detection limit.

bls Below land surface.

DUP Duplicate sample.

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

µg/L Micrograms per liter.

VOCs Volatile Organic Compounds

Table 4-2. Groundwater Vertical Aquifer Profiling Analytical Results, Madison-Kipp Corporation, Madison, Wisconsin.

Sample ID	MW-25 (continued)			MW-27					
	4/18/2013	4/18/2013	4/19/2013	11/19/2013	11/20/2013	11/22/2013	11/22/2013	11/22/2013	11/24/2013
Sample Interval (feet bls)	200-210	210-220	220-230	40-50	60-70	95-100	100-110	100-110 (DUP)	135-145
VOCs (µg/L)									
cis-1,2-Dichloroethene	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	13
Methyl-Tert-Butylether	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	2
Methylene Chloride	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68
Naphthalene	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Tetrachloroethene	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	40
Toluene	<0.11	<0.11	<0.11	7	1	4	2	1	1
Trichloroethene	<0.19	<0.19	<0.19	<0.19	<0.19	0.39 J	1	1	22
Total Xylenes	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068

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

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

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

< Constituent not detected above noted laboratory detection limit.

bls Below land surface.

DUP Duplicate sample.

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

µg/L Micrograms per liter.

VOCs Volatile Organic Compounds

Table 4-2. Groundwater Vertical Aquifer Profiling Analytical Results, Madison-Kipp Corporation, Madison, Wisconsin.

Sample ID	MW-27 (continued)				
	11/25/2013	11/25/2013	11/26/2013	11/26/2013	12/2/2013
Sample Interval (feet bls)	150-160	170-180	190-200	200-210	210-220
VOCs (µg/L)					
cis-1,2-Dichloroethene	8	0.47 J	<0.12	<0.12	<0.12
Methyl-Tert-Butylether	<0.24	<0.24	<0.24	<0.24	<0.24
Methylene Chloride	<0.68	<0.68	<0.68	<0.68	<0.68
Naphthalene	<0.16	<0.16	<0.16	<0.16	<0.16
Tetrachloroethene	25	3	<0.17	<0.17	<0.17
Toluene	0.39 J	0.44 J	0.27 J	<0.11	<0.11
Trichloroethene	16	1	<0.19	<0.19	<0.19
Total Xylenes	<0.068	<0.068	<0.068	<0.068	<0.068

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

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

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

< Constituent not detected above noted laboratory detection limit.

bls Below land surface.

DUP Duplicate sample.

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

µg/L Micrograms per liter.

VOCs Volatile Organic Compounds

Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	Sample Interval (feet bls)	Preventive Action Limit	Enforcement Standard	MW-1					
				14-24 4/8/2010	14-24 3/29/2011	14-24 4/11/2012	14-24 1/15/2013	14-24 4/21/2013	14-24 7/18/2013
VOCs (µg/L)									
1,1,1,2-Tetrachloroethane	7	70	<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
1,1-Dichloroethene	0.7	7	1.1	0.95	0.94 J	0.84 J	<0.31	<0.31	0.62 J
1,2,4-Trimethylbenzene	96	480	<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
1,2-Dichlorobenzene	60	600	<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
1,3,5-Trimethylbenzene	96	480	<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
Bromoform	0.44	4.4	<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
Carbon tetrachloride	0.5	5	<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
Chloromethane	3	30	<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
Dichlorodifluoromethane	200	1,000	<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
Isopropylbenzene	NE	NE	<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
Methylene Chloride	0.5	5	<1	<1	8.5	<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
n-Butylbenzene	NE	NE	<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
p-Isopropyltoluene	NE	NE	<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
Styrene	10	100	<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
Tetrachloroethene	0.5	5	32	9	23	22	10	11	18
Toluene	160	800	<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
Trichloroethene	0.5	5	33	20	24	25	23	18	23
Vinyl chloride	0.02	0.2	1.5	1.1	0.86	0.63	<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

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	Sample Interval (feet bls)	Preventive Action Limit	Enforcement Standard	MW-1						
				14-24 4/8/2010	14-24 3/29/2011	14-24 4/11/2012	14-24 1/15/2013	14-24 4/21/2013	14-24 7/18/2013	14-24 10/9/2013
PAHs (µg/L)										
1-Methylnaphthalene		NE	NE	NA	NA	NA	<1.1	NA	NA	NA
2-Methylnaphthalene		NE	NE	NA	NA	NA	<0.14	NA	NA	NA
Naphthalene		10	100	NA	NA	NA	<0.33	NA	NA	NA
Total PCBs (µg/L)										
Aroclor1016		0.03	0.03	NA	NA	NA	<0.17	NA	NA	NA
Aroclor1232		0.03	0.03	NA	NA	NA	<0.091	NA	NA	NA
Aroclor1242		0.03	0.03	NA	NA	NA	<0.13	NA	NA	NA
Total Detected PCBs		NE	NE	NA	NA	NA	ND	NA	NA	NA
Dissolved PCBs (µg/L)										
Aroclor1016		0.03	0.03	NA	NA	NA	NA	NA	NA	NA
Aroclor1232		0.03	0.03	NA	NA	NA	NA	NA	NA	NA
Aroclor1242		0.03	0.03	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs		NE	NE	NA	NA	NA	NA	NA	NA	NA
Total Metals (µg/L)										
Arsenic		1	10	NA	NA	NA	NA	NA	NA	NA
Barium		400	2,000	NA	NA	NA	NA	NA	NA	NA
Cadmium		0.5	5	NA	NA	NA	NA	NA	NA	NA
Chromium		10	100	NA	NA	NA	NA	NA	NA	NA
Iron		150	300	NA	NA	NA	NA	NA	NA	NA
Lead		1.5	15	NA	NA	NA	NA	NA	NA	NA
Manganese		60	300	NA	NA	NA	NA	NA	NA	NA

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-1								
Sample Interval (feet bls)	Preventive	Enforcement	14-24	14-24	14-24	14-24	14-24	14-24	14-24
Sample Date	Action Limit	Standard	4/8/2010	3/29/2011	4/11/2012	1/15/2013	4/21/2013	7/18/2013	10/9/2013
Total Metals (µg/L) (continued)									
Mercury	0.20	2	NA	NA	NA	NA	NA	NA	NA
Selenium	10	50	NA	NA	NA	NA	NA	NA	NA
Silver	10	50	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (µg/L)									
Arsenic	1	10	NA	NA	NA	0.73 J	NA	NA	NA
Barium	400	2,000	NA	NA	NA	230	NA	NA	NA
Cadmium	0.5	5	NA	NA	NA	0.18 J	NA	NA	NA
Chromium	10	100	NA	NA	NA	<0.64	NA	NA	NA
Iron	150	300	NA	NA	NA	320	NA	NA	NA
Lead	1.5	15	NA	NA	NA	0.27 J	NA	NA	NA
Manganese	60	300	NA	NA	NA	700	NA	NA	NA
Mercury	0.2	2	NA	NA	NA	<0.071	NA	NA	NA
Selenium	10	50	NA	NA	NA	<0.25	NA	NA	NA
Silver	10	50	NA	NA	NA	<0.069	NA	NA	NA

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

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

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

< Constituent not detected above noted laboratory detection limit.

* 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.

µg/L Micrograms per liter.

NA Not analyzed.

NE Not established.

ND Not detected.

PCBs Polychlorinated Biphenyls.

PAHs Polycyclic Aromatic Hydrocarbons.

VOCs Volatile Organic Compounds.

Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID Sample Interval (feet bls) Sample Date	MW-2S							MW-2D		
	19-29 4/8/2010	19-29 3/30/2011	19-29 4/11/2012	19-29 1/14/2013	19-29 4/20/2013	19-29 7/18/2013	19-29 10/10/2013	39-44 4/8/2010	39-44 10/1/2010	39-44 3/30/2011
VOCs (µg/L)										
1,1,1,2-Tetrachloroethane	<0.25	<0.25	<0.31	<0.25	<0.25	<0.25	<0.25	<8	<0.25	<4
1,1,2-Trichloroethane	<0.25	<0.25	<0.3	<0.28	<0.28	<0.28	<0.28	<8	<0.25	<4
1,1-Dichloroethene	<0.5	<0.5	<0.29	<0.31	<0.31	<0.31	<0.31	<16	<0.5	<8
1,2,4-Trimethylbenzene	<0.2	<0.2	<0.22	<0.14	<0.14	<0.14	<0.14	<6.4	<0.2	<3.2
1,2-Dibromoethane	<0.2	<0.2	<0.45	<0.36	<0.36	<0.36	<0.36	<6.4	<0.2	<3.2
1,2-Dichlorobenzene	<0.2	<0.2	<0.21	<0.27	<0.27	<0.27	<0.27	<6.4	<0.2	<3.2
1,2-Dichloropropane	<0.5	<0.5	<0.36	<0.2	<0.2	<0.2	<0.2	<16	<0.5	<8
1,3,5-Trimethylbenzene	<0.2	<0.2	<0.23	<0.18	<0.18	<0.18	<0.18	<6.4	<0.2	<3.2
Benzene	<0.2	<0.2	<0.12	<0.074	<0.074	<0.074	<0.074	<6.4	<0.2	<3.2
Bromoform	<0.2	<0.2	<0.45	<0.28	<0.28	<0.28	<0.28	<6.4	<0.2	<3.2
Bromomethane	<0.5	<0.5	<0.49	<0.31	<0.31	<0.31	<0.31	<16	<0.5	<8
Carbon tetrachloride	<0.8	<0.8	<0.28	<0.26	<0.26	<0.26	<0.26	<26	<0.8	<13
Chloroform	<0.2	<0.2	<0.25	<0.2	<0.2	<0.2	<0.2	<6.4	<0.2	<3.2
Chloromethane	<0.3	<0.3	<0.24	<0.18	<0.18	<0.18	<0.18	<9.6	<0.3	<4.8
cis-1,2-Dichloroethene	<0.5	<0.5	<0.22	<0.12	<0.12	<0.12	<0.12	<16	1	<8
Dichlorodifluoromethane	<0.5	<0.5	<0.26	<0.2	<0.2	<0.2	<0.2	<16	<0.5	<8
Ethylbenzene	<0.5	<0.5	<0.14	<0.13	<0.13	<0.13	<0.13	<16	<0.5	<8
Isopropylbenzene	<0.2	<0.2	<0.21	<0.14	<0.14	<0.14	<0.14	<6.4	<0.2	<3.2
Methyl tert-butyl ether	<0.5	<0.5	<0.28	<0.24	<0.24	<0.24	<0.24	<16	<0.5	<8
Methylene Chloride	<1	<1	8.6	<0.68	<0.68	<0.68	<0.68	<32	<1	<16
Naphthalene	<0.25	<0.25	<0.24	<0.16	<0.16	<0.16	<0.16	<8	<0.25	<4
n-Butylbenzene	<0.2	<0.2	<0.21	<0.13	<0.13	<0.13	<0.13	<6.4	<0.2	<3.2
N-Propylbenzene	<0.5	<0.5	<0.19	<0.13	<0.13	<0.13	<0.13	<16	<0.5	<8
p-Isopropyltoluene	<0.2	<0.2	<0.24	<0.17	<0.17	<0.17	<0.17	<6.4	<0.2	<3.2
sec-Butylbenzene	<0.25	<0.25	<0.19	<0.15	<0.15	<0.15	<0.15	<8	<0.25	<4
Styrene	<0.5	<0.5	<0.26	<0.1	<0.1	<0.1	<0.1	<16	<0.5	<8
tert-Butylbenzene	<0.2	<0.2	<0.24	<0.14	<0.14	<0.14	<0.14	<6.4	<0.2	<3.2
Tetrachloroethene	1.6	1.3	1.2	1.3	1.3	0.81 J	1.1	1,400	1,300	1,000
Toluene	<0.5	<0.5	<0.15	<0.11	<0.11	<0.11	<0.11	<16	<0.5	<8
trans-1,2-Dichloroethene	<0.5	<0.5	<0.27	<0.25	<0.25	<0.25	<0.25	<16	<0.5	<8
Trichloroethene	<0.2	<0.2	<0.18	<0.19	<0.19	<0.19	<0.19	20	16	10
Vinyl chloride	<0.2	<0.2	<0.13	<0.1	<0.1	<0.1	<0.1	<6.4	<0.2	<3.2
Xylenes, Total	<0.5	<0.5	<0.3	<0.068	<0.068	<0.068	<0.068	<16	<0.5	<8

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-2S							MW-2D		
	19-29	19-29	19-29	19-29	19-29	19-29	19-29	39-44	39-44	39-44
Sample Interval (feet bls)	4/8/2010	3/30/2011	4/11/2012	1/14/2013	4/20/2013	7/18/2013	10/10/2013	4/8/2010	10/1/2010	3/30/2011
Sample Date	4/8/2010	3/30/2011	4/11/2012	1/14/2013	4/20/2013	7/18/2013	10/10/2013	4/8/2010	10/1/2010	3/30/2011
PAHs (µg/L)										
1-Methylnaphthalene	NA	NA	NA	<1.1	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	<0.14	NA	NA	NA	NA	NA	NA
Naphthalene	NA	NA	NA	<0.33	NA	NA	NA	NA	NA	NA
Total PCBs (µg/L)										
Aroclor1016	NA	NA	NA	<0.17	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	NA	<0.091	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	NA	<0.13	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA
Dissolved PCBs (µg/L)										
Aroclor1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (µg/L)										
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-2S							MW-2D		
	19-29	19-29	19-29	19-29	19-29	19-29	19-29	39-44	39-44	39-44
Sample Interval (feet bls)	4/8/2010	3/30/2011	4/11/2012	1/14/2013	4/20/2013	7/18/2013	10/10/2013	4/8/2010	10/1/2010	3/30/2011
Sample Date	4/8/2010	3/30/2011	4/11/2012	1/14/2013	4/20/2013	7/18/2013	10/10/2013	4/8/2010	10/1/2010	3/30/2011
Total Metals (µg/L) (continued)										
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (µg/L)										
Arsenic	NA	NA	NA	0.51 J	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	41	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	<0.1	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	2.6 J	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	<0.16	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	NA	NA	NA	<0.071	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	4	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	<0.069	NA	NA	NA	NA	NA	NA

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

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

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

< Constituent not detected above noted laboratory detection limit.

* 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.

µg/L Micrograms per liter.

NA Not analyzed.

NE Not established.

ND Not detected.

PCBs Polychlorinated Biphenyls.

PAHs Polycyclic Aromatic Hydrocarbons.

VOCs Volatile Organic Compounds.

Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-2D (continued)					MW-3S				
	39-44	39-44	39-44	39-44	39-44	19-29	19-29	19-29	19-29	19-29
Sample Interval (feet bls)	4/11/2012	1/15/2013	4/20/2013	7/18/2013	10/10/2013	4/7/2010	3/29/2011	4/12/2012	11/30/2012	12/17/2012
Sample Date	4/11/2012	1/15/2013	4/20/2013	7/18/2013	10/10/2013	4/7/2010	3/29/2011	4/12/2012	11/30/2012	12/17/2012
VOCs (µg/L)										
1,1,1,2-Tetrachloroethane	<0.31	<0.5	<0.5	<0.25	<0.25	<8	<6.3	<1.6	<1.3	NA
1,1,2-Trichloroethane	<0.3	<0.56	<0.56	<0.28	<0.28	<8	<6.3	<1.5	<1.4	NA
1,1-Dichloroethene	<0.29	<0.62	<0.62	<0.31	<0.31	<16	<13	<1.5	<1.6	NA
1,2,4-Trimethylbenzene	<0.22	<0.28	<0.28	<0.14	<0.14	<6.4	<5	<1.1	<0.7	NA
1,2-Dibromoethane	<0.45	<0.72	<0.72	<0.36	<0.36	NA	NA	<2.3	<1.8	NA
1,2-Dichlorobenzene	<0.21	<0.54	<0.54	<0.27	<0.27	<6.4	<5	<1.1	<1.4	NA
1,2-Dichloropropane	<0.36	<0.4	<0.4	<0.2	<0.2	<16	<13	<1.8	<1	NA
1,3,5-Trimethylbenzene	<0.23	<0.36	<0.36	<0.18	<0.18	<6.4	<5	<1.2	<0.9	NA
Benzene	<0.12	<0.15	<0.15	<0.074	<0.074	<6.4	<5	<0.6	1.5 J	NA
Bromoform	<0.45	<0.56	<0.56	<0.28	<0.28	<6.4	<5	<2.3	<1.4	NA
Bromomethane	<0.49	<0.62	<0.62	<0.31	<0.31	<16	<13	<2.5	<1.6	NA
Carbon tetrachloride	<0.28	<0.52	<0.52	<0.26	<0.26	<26	<20	<1.4	<1.3	NA
Chloroform	<0.25	<0.4	<0.4	<0.2	<0.2	<6.4	<5	3.7 J	5	NA
Chloromethane	<0.24	<0.36	<0.36	<0.18	<0.18	<9.6	<7.5	<1.2	<0.9	NA
cis-1,2-Dichloroethene	<0.22	<0.24	<0.24	<0.12	<0.12	83	37	89	98	NA
Dichlorodifluoromethane	<0.26	<0.4	<0.4	<0.2	<0.2	<16	<13	<1.3	<1	NA
Ethylbenzene	<0.14	<0.26	<0.26	<0.13	<0.13	<16	<13	<0.7	<0.65	NA
Isopropylbenzene	<0.21	<0.28	<0.28	<0.14	<0.14	<6.4	<5	<1.1	<0.7	NA
Methyl tert-butyl ether	<0.28	<0.48	<0.48	<0.24	<0.24	<16	<13	<1.4	<1.2	NA
Methylene Chloride	8.1	<1.4	<1.4	<0.68	<0.68	<32	<25	<3.2	<3.4	NA
Naphthalene	<0.24	<0.32	<0.32	<0.16	<0.16	<8	<6.3	<1.2	<0.8	NA
n-Butylbenzene	<0.21	<0.26	<0.26	<0.13	<0.13	<6.4	<5	<1.1	<0.65	NA
N-Propylbenzene	<0.19	<0.26	<0.26	<0.13	<0.13	<16	<13	<0.95	<0.65	NA
p-Isopropyltoluene	<0.24	<0.34	<0.34	<0.17	<0.17	<6.4	<5	<1.2	<0.85	NA
sec-Butylbenzene	<0.19	<0.3	<0.3	<0.15	<0.15	<8	<6.3	<0.95	<0.75	NA
Styrene	<0.26	<0.2	<0.2	<0.1	<0.1	<16	<13	<1.3	<0.5	NA
tert-Butylbenzene	<0.24	<0.28	<0.28	<0.14	<0.14	<6.4	<5	<1.2	<0.7	NA
Tetrachloroethene	610	720	910	580	440	2,000	1,100	1,600	2,400	NA
Toluene	<0.15	<0.22	<0.22	<0.11	<0.11	<16	<13	<0.75	<0.55	NA
trans-1,2-Dichloroethene	<0.27	<0.5	<0.5	<0.25	<0.25	<16	<13	5	6	NA
Trichloroethene	5.4	5.1	6.4	4.1	3	130	66	120	160	NA
Vinyl chloride	<0.13	<0.2	<0.2	<0.1	<0.1	<6.4	<5	<0.65	<0.5	NA
Xylenes, Total	<0.3	<0.14	<0.14	<0.068	<0.068	<16	<13	<1.5	<0.34	NA

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-2D (continued)					MW-3S				
	39-44	39-44	39-44	39-44	39-44	19-29	19-29	19-29	19-29	19-29
Sample Interval (feet bls)	4/11/2012	1/15/2013	4/20/2013	7/18/2013	10/10/2013	4/7/2010	3/29/2011	4/12/2012	11/30/2012	12/17/2012
Sample Date	4/11/2012	1/15/2013	4/20/2013	7/18/2013	10/10/2013	4/7/2010	3/29/2011	4/12/2012	11/30/2012	12/17/2012
PAHs (µg/L)										
1-Methylnaphthalene	NA	<1.1	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	<0.14	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NA	<0.32	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs (µg/L)										
Aroclor1016	NA	<0.18	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	<0.096	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	<0.14	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs (µg/L)										
Aroclor1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (µg/L)										
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	0.49 J	<3.7
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	69
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2.6
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	<0.64	270
Iron	NA	NA	NA	NA	NA	NA	NA	NA	37 J	<920
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.78
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	34	800,000

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-2D (continued)					MW-3S				
	39-44	39-44	39-44	39-44	39-44	19-29	19-29	19-29	19-29	19-29
Sample Interval (feet bls)	4/11/2012	1/15/2013	4/20/2013	7/18/2013	10/10/2013	4/7/2010	3/29/2011	4/12/2012	11/30/2012	12/17/2012
Sample Date	4/11/2012	1/15/2013	4/20/2013	7/18/2013	10/10/2013	4/7/2010	3/29/2011	4/12/2012	11/30/2012	12/17/2012
Total Metals (µg/L) (continued)										
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	13
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	23 J
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.1 J
Dissolved Metals (µg/L)										
Arsenic	NA	0.30 J	NA	NA	NA	NA	NA	NA	0.45 J	NA
Barium	NA	71	NA	NA	NA	NA	NA	NA	88	NA
Cadmium	NA	<0.1	NA	NA	NA	NA	NA	NA	<0.1	NA
Chromium	NA	3.0 J	NA	NA	NA	NA	NA	NA	<0.64	NA
Iron	NA	<37	NA	NA	NA	NA	NA	NA	<37	NA
Lead	NA	<0.16	NA	NA	NA	NA	NA	NA	<0.16	NA
Manganese	NA	0.86 J	NA	NA	NA	NA	NA	NA	26	NA
Mercury	NA	<0.071	NA	NA	NA	NA	NA	NA	0.072 J	NA
Selenium	NA	5	NA	NA	NA	NA	NA	NA	0.74 J	NA
Silver	NA	<0.069	NA	NA	NA	NA	NA	NA	<0.069	NA

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

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

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

< Constituent not detected above noted laboratory detection limit.

* 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.

µg/L Micrograms per liter.

NA Not analyzed.

NE Not established.

ND Not detected.

PCBs Polychlorinated Biphenyls.

PAHs Polycyclic Aromatic Hydrocarbons.

VOCs Volatile Organic Compounds.

Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-3S (continued)						MW-3D			
	19-29	19-29	19-29	19-29	19-29	19-29	48-53	48-53	48-53	48-53
Sample Interval (feet bls)	19-29	19-29	19-29	19-29	19-29	19-29	48-53	48-53	48-53	48-53
Sample Date	1/15/2013	2/12/2013	3/12/2013	4/16/2013	7/16/2013	10/10/2013	4/7/2010	10/1/2010	3/30/2011	4/12/2012
VOCs (µg/L)										
1,1,1,2-Tetrachloroethane	<0.25	<0.25	<0.25	<0.25	<0.5	<0.5	<8	<0.25	<5	<0.31
1,1,2-Trichloroethane	<0.28	<0.28	<0.28	<0.28	<0.56	<0.56	<8	<0.25	<5	<0.3
1,1-Dichloroethene	<0.31	<0.31	<0.31	<0.31	<0.62	<0.62	<16	<0.5	<10	<0.29
1,2,4-Trimethylbenzene	<0.14	<0.14	<0.14	<0.14	<0.28	<0.28	<6.4	<0.2	<4	<0.22
1,2-Dibromoethane	<0.36	<0.36	<0.36	<0.36	<0.72	<0.72	NA	NA	NA	<0.45
1,2-Dichlorobenzene	<0.27	<0.27	<0.27	<0.27	<0.54	<0.54	<6.4	<0.2	<4	<0.21
1,2-Dichloropropane	<0.2	<0.2	<0.2	<0.2	<0.4	<0.4	<16	<0.5	<10	<0.36
1,3,5-Trimethylbenzene	<0.18	<0.18	<0.18	<0.18	<0.36	<0.36	<6.4	<0.2	<4	<0.23
Benzene	0.42 J	0.88	1	0.6	0.70 J	1	<6.4	0.31	<4	0.39 J
Bromoform	<0.28	<0.28	<0.28	<0.28	<0.56	<0.56	<6.4	<0.2	<4	<0.45
Bromomethane	<0.31	<0.31	<0.31	<0.31	<0.62	<0.62	<16	<0.5	<10	<0.49
Carbon tetrachloride	<0.26	<0.26	<0.26	<0.26	<0.52	<0.52	<26	<0.8	<16	<0.28
Chloroform	1.6	3.0	4.1	2.7	2.8	3.7	<6.4	0.78	<4	0.93 J
Chloromethane	<0.18	<0.18	<0.18	<0.18	<0.36	<0.36	<9.6	<0.3	<6	<0.24
cis-1,2-Dichloroethene	<0.12	1.6	5	<0.12	14	58	510	310	300	350
Dichlorodifluoromethane	<0.2	<0.2	<0.2	<0.2	<0.4	<0.4	<16	<0.5	<10	<0.26
Ethylbenzene	0.36 J	<0.13	<0.13	<0.13	<0.26	<0.26	<16	<0.5	<10	<0.14
Isopropylbenzene	<0.14	<0.14	<0.14	<0.14	<0.28	<0.28	<6.4	<0.2	<4	<0.21
Methyl tert-butyl ether	<0.24	<0.24	<0.24	<0.24	<0.48	<0.48	<16	<0.5	<10	<0.28
Methylene Chloride	<0.68	<0.68	<0.68	<0.68	<1.4	<1.4	<32	<1	<20	<0.63
Naphthalene	<0.16	<0.16	<0.16	<0.16	<0.32	<0.32	<8	<0.25	<5	<0.24
n-Butylbenzene	<0.13	<0.13	<0.13	<0.13	<0.26	<0.26	<6.4	<0.2	<4	<0.21
N-Propylbenzene	<0.13	<0.13	<0.13	<0.13	<0.26	<0.26	<16	<0.5	<10	<0.19
p-Isopropyltoluene	<0.17	<0.17	<0.17	<0.17	<0.34	<0.34	<6.4	<0.2	<4	<0.24
sec-Butylbenzene	<0.15	<0.15	<0.15	<0.15	<0.3	<0.3	<8	<0.25	<5	<0.19
Styrene	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<16	<0.5	<10	<0.26
tert-Butylbenzene	<0.14	<0.14	<0.14	<0.14	<0.28	<0.28	<6.4	<0.2	<4	<0.24
Tetrachloroethene	88	600	750	20	840	1,000	1,700	1,500	1,200	1,100
Toluene	0.38 J	<0.11	<0.11	<0.11	<0.22	<0.22	<16	<0.5	<10	<0.15
trans-1,2-Dichloroethene	<0.25	<0.25	<0.25	<0.25	<0.5	5	<16	7	<10	6
Trichloroethene	<0.19	6.8	16	<0.19	26	100	270	200	170	160
Vinyl chloride	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<6.4	<0.2	<4	<0.13
Xylenes, Total	2.4	<0.068	<0.068	<0.068	<0.14	<0.14	<16	<0.5	<10	<0.3

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-3S (continued)						MW-3D			
	19-29	19-29	19-29	19-29	19-29	19-29	48-53	48-53	48-53	48-53
Sample Interval (feet bls)	1/15/2013	2/12/2013	3/12/2013	4/16/2013	7/16/2013	10/10/2013	4/7/2010	10/1/2010	3/30/2011	4/12/2012
Sample Date	1/15/2013	2/12/2013	3/12/2013	4/16/2013	7/16/2013	10/10/2013	4/7/2010	10/1/2010	3/30/2011	4/12/2012
PAHs (µg/L)										
1-Methylnaphthalene	<1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	<0.14	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	<0.32	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs (µg/L)										
Aroclor1016	<0.18	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	<0.096	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	<0.14	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs (µg/L)										
Aroclor1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (µg/L)										
Arsenic	<3.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	510	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	<920	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	460,000	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-3S (continued)						MW-3D			
	19-29	19-29	19-29	19-29	19-29	19-29	48-53	48-53	48-53	48-53
Sample Interval (feet bls)	19-29	19-29	19-29	19-29	19-29	19-29	48-53	48-53	48-53	48-53
Sample Date	1/15/2013	2/12/2013	3/12/2013	4/16/2013	7/16/2013	10/10/2013	4/7/2010	10/1/2010	3/30/2011	4/12/2012
Total Metals (µg/L) (continued)										
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (µg/L)										
Arsenic	<3.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	34 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	<2.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	510	NA	NA	NA	120	NA	NA	NA	NA	NA
Iron	<920	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	<3.9	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	370,000	NA	NA	NA	5.3 B	NA	NA	NA	NA	NA
Mercury	4.1	NA	NA	NA	0.082 J	NA	NA	NA	NA	NA
Selenium	35 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	2.6 J	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

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

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

< Constituent not detected above noted laboratory detection limit.

* 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.

µg/L Micrograms per liter.

NA Not analyzed.

NE Not established.

ND Not detected.

PCBs Polychlorinated Biphenyls.

PAHs Polycyclic Aromatic Hydrocarbons.

VOCs Volatile Organic Compounds.

Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-3D (continued)							MW-3D2		
	48-53	48-53	48-53	48-53	48-53	48-53	48-53	76-81	76-81	76-81
Sample Interval (feet bls)	48-53	48-53	48-53	48-53	48-53	48-53	48-53	76-81	76-81	76-81
Sample Date	11/30/2012	1/16/2013	2/12/2013	3/13/2013	4/16/2013	7/16/2013	10/10/2013	12/31/2009	4/7/2010	7/1/2010
VOCs (µg/L)										
1,1,1,2-Tetrachloroethane	<1.3	<0.25	<0.25	<0.25	<0.25	<0.5	<0.25	<6.3	<13	<13
1,1,2-Trichloroethane	<1.4	<0.28	<0.28	<0.28	<0.28	<0.56	<0.28	<6.3	<13	<13
1,1-Dichloroethene	<1.6	<0.31	<0.31	<0.31	<0.31	<0.62	<0.31	<13	<25	<25
1,2,4-Trimethylbenzene	<0.7	<0.14	<0.14	<0.14	<0.14	<0.28	<0.14	<5	<10	<10
1,2-Dibromoethane	<1.8	<0.36	<0.36	<0.36	<0.36	<0.72	<0.36	NA	NA	NA
1,2-Dichlorobenzene	<1.4	<0.27	<0.27	<0.27	<0.27	<0.54	<0.27	<5	<10	<10
1,2-Dichloropropane	<1	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<13	<25	<25
1,3,5-Trimethylbenzene	<0.9	<0.18	<0.18	<0.18	<0.18	<0.36	<0.18	<5	<10	<10
Benzene	<0.37	0.32 J	0.29 J	<0.074	0.27 J	<0.15	0.36 J	<5	<10	<10
Bromoform	<1.4	<0.28	<0.28	<0.28	<0.28	<0.56	<0.28	<5	<10	<10
Bromomethane	<1.6	<0.31	<0.31	<0.31	<0.31	<0.62	<0.31	<13	<25	<25
Carbon tetrachloride	<1.3	<0.26	<0.26	<0.26	<0.26	<0.52	<0.26	<20	<40	<40
Chloroform	<1	0.89 J	<0.2	<0.2	<0.2	<0.4	0.85 J	<5	<10	<10
Chloromethane	<0.9	<0.18	<0.18	<0.18	<0.18	<0.36	<0.18	<7.5	<15	<15
cis-1,2-Dichloroethene	520	290	200	54	210	200	180	520	510	460
Dichlorodifluoromethane	<1	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<13	<25	<25
Ethylbenzene	<0.65	<0.13	<0.13	<0.13	<0.13	<0.26	<0.13	<13	<25	<25
Isopropylbenzene	<0.7	<0.14	<0.14	<0.14	<0.14	<0.28	<0.14	<5	<10	<10
Methyl tert-butyl ether	<1.2	<0.24	<0.24	<0.24	<0.24	<0.48	<0.24	<13	<25	<25
Methylene Chloride	<3.4	<0.68	<0.68	<0.68	<0.68	<1.4	<0.68	<25	<50	<50
Naphthalene	<0.8	<0.16	<0.16	<0.16	<0.16	<0.32	<0.16	<6.3	<13	240
n-Butylbenzene	<0.65	<0.13	<0.13	<0.13	<0.13	<0.26	<0.13	<5	<10	<10
N-Propylbenzene	<0.65	<0.13	<0.13	<0.13	<0.13	<0.26	<0.13	<13	<25	<25
p-Isopropyltoluene	<0.85	<0.17	<0.17	<0.17	<0.17	<0.34	<0.17	<5	<10	<10
sec-Butylbenzene	<0.75	<0.15	<0.15	<0.15	<0.15	<0.3	<0.15	<6.3	<13	<13
Styrene	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<13	<25	<25
tert-Butylbenzene	<0.7	<0.14	<0.14	<0.14	<0.14	<0.28	<0.14	<5	<10	<10
Tetrachloroethene	1,800	660	760	150	740	920	620	4,900	4,400	3,900
Toluene	<0.55	<0.11	<0.11	<0.11	<0.11	<0.22	<0.11	<13	<25	<25
trans-1,2-Dichloroethene	7.7	6.0	4	1.1	4.2	4.8	5.2	<13	<25	<25
Trichloroethene	250	140	130	30	120	130	100	280	240	240
Vinyl chloride	<0.5	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<5	<10	<10
Xylenes, Total	<0.34	<0.068	<0.068	<0.068	<0.068	<0.14	<0.068	<13	<25	<25

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-3D (continued)							MW-3D2		
	48-53	48-53	48-53	48-53	48-53	48-53	48-53	76-81	76-81	76-81
Sample Interval (feet bls)	11/30/2012	1/16/2013	2/12/2013	3/13/2013	4/16/2013	7/16/2013	10/10/2013	12/31/2009	4/7/2010	7/1/2010
Sample Date	11/30/2012	1/16/2013	2/12/2013	3/13/2013	4/16/2013	7/16/2013	10/10/2013	12/31/2009	4/7/2010	7/1/2010
PAHs (µg/L)										
1-Methylnaphthalene	NA	<1.1	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	<0.14	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NA	<0.33	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs (µg/L)										
Aroclor1016	NA	<0.18	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	<0.096	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	<0.14	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs (µg/L)										
Aroclor1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (µg/L)										
Arsenic	0.32 J	0.18 J	0.19 J	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	3.7 J	0.70 J	0.98 J	NA	NA	NA	NA	NA	NA	NA
Iron	400	79 J B	210	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	42	170	250 B	NA	NA	NA	NA	NA	NA	NA

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-3D (continued)							MW-3D2		
	48-53	48-53	48-53	48-53	48-53	48-53	48-53	76-81	76-81	76-81
Sample Interval (feet bls)	48-53	48-53	48-53	48-53	48-53	48-53	48-53	76-81	76-81	76-81
Sample Date	11/30/2012	1/16/2013	2/12/2013	3/13/2013	4/16/2013	7/16/2013	10/10/2013	12/31/2009	4/7/2010	7/1/2010
Total Metals (µg/L) (continued)										
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (µg/L)										
Arsenic	0.23 J	0.18 J	0.20 J	NA	NA	NA	NA	NA	NA	NA
Barium	68	66	50	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.13 J	0.15 J	0.22 J	NA	NA	NA	NA	NA	NA	NA
Chromium	2.4 J	0.77 J	<0.64	NA	NA	NA	NA	NA	NA	NA
Iron	<37	<37	<37	NA	NA	NA	NA	NA	NA	NA
Lead	<0.16	0.29 J	<0.16	NA	NA	NA	NA	NA	NA	NA
Manganese	28	170	230 B	230	350	430 B	NA	NA	NA	NA
Mercury	<0.071	NA	<0.071	NA	NA	NA	NA	NA	NA	NA
Selenium	<0.25	<0.25	<0.25	NA	NA	NA	NA	NA	NA	NA
Silver	<0.069	<0.069	<0.069	NA	NA	NA	NA	NA	NA	NA

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

- 100** Concentration exceeds the NR 140 Wis. adm. code Preventive Action Limit.
- 100** Concentration exceeds the NR 140 Wis. adm. code Enforcement Standard.
- < Constituent not detected above noted laboratory detection limit.
- * 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.
- µg/L Micrograms per liter.
- NA Not analyzed.
- NE Not established.
- ND Not detected.
- PCBs Polychlorinated Biphenyls.
- PAHs Polycyclic Aromatic Hydrocarbons.
- VOCs Volatile Organic Compounds.

Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-3D2 (continued)									
	76-81	76-81	76-81	76-81	76-81	76-81	76-81	76-81	76-81	76-81
Sample Interval (feet bls)	76-81	76-81	76-81	76-81	76-81	76-81	76-81	76-81	76-81	76-81
Sample Date	10/1/2010	3/30/2011	4/12/2012	11/30/2012	1/16/2013	2/12/2013	3/13/2013	4/16/2013	7/16/2013	10/10/2013
VOCs (µg/L)										
1,1,1,2-Tetrachloroethane	<0.25	<13	<1.6	<1.3	<0.5	<0.25	<0.25	<0.25	<0.25	<0.25
1,1,2-Trichloroethane	<0.25	<13	<1.5	<1.4	<0.56	<0.28	<0.28	<0.28	<0.28	<0.28
1,1-Dichloroethene	<0.5	<25	<1.5	<1.6	<0.62	<0.31	<0.31	<0.31	<0.31	<0.31
1,2,4-Trimethylbenzene	<0.2	<10	<1.1	<0.7	<0.28	<0.14	<0.14	<0.14	<0.14	<0.14
1,2-Dibromoethane	NA	NA	<2.3	<1.8	<0.72	<0.36	<0.36	<0.36	<0.36	<0.36
1,2-Dichlorobenzene	<0.2	<10	<1.1	<1.4	<0.54	<0.27	<0.27	<0.27	<0.27	<0.27
1,2-Dichloropropane	<0.5	<25	<1.8	<1	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2
1,3,5-Trimethylbenzene	<0.2	<10	<1.2	<0.9	<0.36	<0.18	<0.18	<0.18	<0.18	<0.18
Benzene	<0.2	<10	<0.6	<0.37	<0.15	<0.074	<0.074	<0.074	<0.074	<0.074
Bromoform	<0.2	<10	<2.3	<1.4	<0.56	<0.28	<0.28	<0.28	<0.28	<0.28
Bromomethane	<0.5	<25	<2.5	<1.6	<0.62	<0.31	<0.31	<0.31	<0.31	<0.31
Carbon tetrachloride	<0.8	<40	<1.4	<1.3	<0.52	<0.26	<0.26	<0.26	<0.26	<0.26
Chloroform	0.37	<10	<1.3	<1	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2
Chloromethane	<0.3	<15	<1.2	<0.9	<0.36	<0.18	<0.18	<0.18	<0.18	<0.18
cis-1,2-Dichloroethene	400	440	440	420	320	250	100	45	10	21
Dichlorodifluoromethane	<0.5	<25	<1.3	<1	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2
Ethylbenzene	<0.5	<25	<0.7	<0.65	<0.26	<0.13	<0.13	<0.13	<0.13	<0.13
Isopropylbenzene	<0.2	<10	<1.1	<0.7	<0.28	<0.14	<0.14	<0.14	<0.14	<0.14
Methyl tert-butyl ether	<0.5	<25	<1.4	<1.2	<0.48	<0.24	<0.24	<0.24	<0.24	<0.24
Methylene Chloride	<1	<50	<3.2	<3.4	<1.4	7.3	<0.68	<0.68	<0.68	<0.68
Naphthalene	<0.25	13	<1.2	<0.8	<0.32	<0.16	<0.16	<0.16	<0.16	<0.16
n-Butylbenzene	<0.2	<10	<1.1	<0.65	<0.26	<0.13	<0.13	<0.13	<0.13	<0.13
N-Propylbenzene	<0.5	<25	<0.95	<0.65	<0.26	<0.13	<0.13	<0.13	<0.13	<0.13
p-Isopropyltoluene	<0.2	<10	<1.2	<0.85	<0.34	<0.17	<0.17	<0.17	<0.17	<0.17
sec-Butylbenzene	<0.25	<13	<0.95	<0.75	<0.3	<0.15	<0.15	<0.15	<0.15	<0.15
Styrene	<0.5	<25	<1.3	<0.5	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1
tert-Butylbenzene	<0.2	<10	<1.2	<0.7	<0.28	<0.14	<0.14	<0.14	<0.14	<0.14
Tetrachloroethene	3,900	3,800	2,600	2,800	1,200	1,700	800	850	440	150
Toluene	<0.5	<25	<0.75	<0.55	<0.22	<0.11	<0.11	<0.11	<0.11	<0.11
trans-1,2-Dichloroethene	7	<25	6.4	5.6	4.9	3.2	0.62 J	<0.25	<0.25	0.52 J
Trichloroethene	240	230	190	190	110	120	50	24	8.7	9.8
Vinyl chloride	0.65	<10	<0.65	<0.5	<0.2	0.22 J	<0.1	<0.1	<0.1	<0.1
Xylenes, Total	<0.5	<25	<1.5	<0.34	<0.14	<0.068	<0.068	<0.068	<0.068	<0.068

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-3D2 (continued)									
Sample Interval (feet bls)	76-81	76-81	76-81	76-81	76-81	76-81	76-81	76-81	76-81	76-81
Sample Date	10/1/2010	3/30/2011	4/12/2012	11/30/2012	1/16/2013	2/12/2013	3/13/2013	4/16/2013	7/16/2013	10/10/2013
PAHs (µg/L)										
1-Methylnaphthalene	NA	NA	NA	NA	<1.1	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	<0.14	NA	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA	<0.33	NA	NA	NA	NA	NA
Total PCBs (µg/L)										
Aroclor1016	NA	NA	NA	NA	<0.17	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	NA	NA	<0.093	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	NA	NA	<0.13	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA
Dissolved PCBs (µg/L)										
Aroclor1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (µg/L)										
Arsenic	NA	NA	NA	0.21 J	0.19 J	0.19 J	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	4.1 J	4.1 J	11	NA	NA	NA	NA
Iron	NA	NA	NA	<37	<37	75 J	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	1.6 J	17	12 B	NA	NA	NA	NA

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-3D2 (continued)									
Sample Interval (feet bls)	76-81	76-81	76-81	76-81	76-81	76-81	76-81	76-81	76-81	76-81
Sample Date	10/1/2010	3/30/2011	4/12/2012	11/30/2012	1/16/2013	2/12/2013	3/13/2013	4/16/2013	7/16/2013	10/10/2013
Total Metals (µg/L) (continued)										
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (µg/L)										
Arsenic	NA	NA	NA	0.28 J	0.15 J	0.17 J	NA	NA	NA	NA
Barium	NA	NA	NA	43	42	40	NA	NA	NA	NA
Cadmium	NA	NA	NA	<0.1	0.10 J	<0.1	NA	NA	NA	NA
Chromium	NA	NA	NA	4.0 J	4.4 J	11	NA	NA	NA	NA
Iron	NA	NA	NA	<37	<37	<37	NA	NA	NA	NA
Lead	NA	NA	NA	<0.16	0.16 J	<0.16	NA	NA	NA	NA
Manganese	NA	NA	NA	3	19	12 B	NA	NA	340 B	NA
Mercury	NA	NA	NA	<0.071	NA	<0.071	NA	NA	NA	NA
Selenium	NA	NA	NA	0.39 J	0.42 J	0.57 J	NA	NA	NA	NA
Silver	NA	NA	NA	<0.069	<0.069	<0.069	NA	NA	NA	NA

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

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

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

< Constituent not detected above noted laboratory detection limit.

* 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.

µg/L Micrograms per liter.

NA Not analyzed.

NE Not established.

ND Not detected.

PCBs Polychlorinated Biphenyls.

PAHs Polycyclic Aromatic Hydrocarbons.

VOCs Volatile Organic Compounds.

Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID Sample Interval (feet bls) Sample Date	MW-3D3							MW-4S		
	214-224 7/24/2012	214-224 11/27/2012	214-224 1/18/2013	214-224 2/15/2013	214-224 3/13/2013	214-224 4/19/2013	214-224 7/16/2013	214-224 10/7/2013	35-50 4/8/2010	35-50 3/30/2011
VOCs (µg/L)										
1,1,1,2-Tetrachloroethane	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
1,1,2-Trichloroethane	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.25	<0.25
1,1-Dichloroethene	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.5	<0.5
1,2,4-Trimethylbenzene	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.2	<0.2
1,2-Dibromoethane	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.2	<0.2
1,2-Dichlorobenzene	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.2	<0.2
1,2-Dichloropropane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.5
1,3,5-Trimethylbenzene	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.2	<0.2
Benzene	<0.074	<0.074	0.30 J	<0.074	<0.074	<0.074	<0.074	<0.074	<0.2	<0.2
Bromoform	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.2	<0.2
Bromomethane	<0.31	<0.31	<0.31	<0.31 *	<0.31	<0.31	<0.31	<0.31	<0.5	<0.5
Carbon tetrachloride	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.8	<0.8
Chloroform	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chloromethane	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.3	<0.3
cis-1,2-Dichloroethene	2.2	6.8	15	7.7	6.2	4	1.2	<0.12	<0.5	<0.5
Dichlorodifluoromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.5
Ethylbenzene	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.5	<0.5
Isopropylbenzene	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.2	<0.2
Methyl tert-butyl ether	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.5	<0.5
Methylene Chloride	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<1	<1
Naphthalene	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	1.4	<0.25
n-Butylbenzene	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.2	<0.2
N-Propylbenzene	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.5	<0.5
p-Isopropyltoluene	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.2	<0.2
sec-Butylbenzene	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.25	<0.25
Styrene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5
tert-Butylbenzene	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.2	<0.2
Tetrachloroethene	6.6	1.7	1.3	0.72 J	0.95 J	0.63 J	<0.17	<0.17	1.5	1.6
Toluene	<0.11	<0.11	0.21 J	<0.11	<0.11	0.53	2.8	<0.11	<0.5	<0.5
trans-1,2-Dichloroethene	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.5	<0.5
Trichloroethene	1.1	1.1	0.40 J	<0.19	<0.19	<0.19	0.31 J	0.5	<0.2	<0.2
Vinyl chloride	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2
Xylenes, Total	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.5	<0.5

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-3D3								MW-4S	
	214-224	214-224	214-224	214-224	214-224	214-224	214-224	214-224	35-50	35-50
Sample Interval (feet bls)	7/24/2012	11/27/2012	1/18/2013	2/15/2013	3/13/2013	4/19/2013	7/16/2013	10/7/2013	4/8/2010	3/30/2011
Sample Date	7/24/2012	11/27/2012	1/18/2013	2/15/2013	3/13/2013	4/19/2013	7/16/2013	10/7/2013	4/8/2010	3/30/2011
PAHs (µg/L)										
1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs (µg/L)										
Aroclor1016	NA	NA	<0.18	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	<0.096	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	<0.14	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs (µg/L)										
Aroclor1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (µg/L)										
Arsenic	NA	0.93 J	1	1	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	0.83 J	2.2 J	1.0 J	NA	NA	NA	NA	NA	NA
Iron	NA	4,400	5,000	6,200	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	870	670	690 B	NA	NA	NA	NA	NA	NA

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-3D3								MW-4S	
	214-224	214-224	214-224	214-224	214-224	214-224	214-224	214-224	35-50	35-50
Sample Interval (feet bls)	7/24/2012	11/27/2012	1/18/2013	2/15/2013	3/13/2013	4/19/2013	7/16/2013	10/7/2013	4/8/2010	3/30/2011
Sample Date	7/24/2012	11/27/2012	1/18/2013	2/15/2013	3/13/2013	4/19/2013	7/16/2013	10/7/2013	4/8/2010	3/30/2011
Total Metals (µg/L) (continued)										
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (µg/L)										
Arsenic	NA	0.91 J	2	1	NA	NA	NA	NA	NA	NA
Barium	NA	85	81	96	NA	NA	NA	NA	NA	NA
Cadmium	NA	<0.1	<0.1	<0.1	NA	NA	NA	NA	NA	NA
Chromium	NA	<0.64	0.81 J	<0.64	NA	NA	NA	NA	NA	NA
Iron	NA	4,200	4,900	6,800	NA	NA	NA	NA	NA	NA
Lead	NA	<0.16	<0.16	0.27 J B	NA	NA	NA	NA	NA	NA
Manganese	NA	820	690	610 B	590	570	620 B	NA	NA	NA
Mercury	NA	0.17 J B	<0.071	<0.071	NA	NA	NA	NA	NA	NA
Selenium	NA	<0.25	<0.25	<0.25	NA	NA	NA	NA	NA	NA
Silver	NA	<0.069	<0.069	<0.069	NA	NA	NA	NA	NA	NA

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

- 100** Concentration exceeds the NR 140 Wis. adm. code Preventive Action Limit.
- 100** Concentration exceeds the NR 140 Wis. adm. code Enforcement Standard.
- < Constituent not detected above noted laboratory detection limit.
- * 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.
- µg/L Micrograms per liter.
- NA Not analyzed.
- NE Not established.
- ND Not detected.
- PCBs Polychlorinated Biphenyls.
- PAHs Polycyclic Aromatic Hydrocarbons.
- VOCs Volatile Organic Compounds.

Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-4S (continued)					MW-4D				
	35-50	35-50	35-50	35-50	35-50	65-70	65-70	65-70	65-70	65-70
Sample Interval (feet bls)	4/10/2012	1/15/2013	4/18/2013	7/18/2013	10/8/2013	4/8/2010	3/30/2011	4/10/2012	1/16/2013	4/18/2013
Sample Date	4/10/2012	1/15/2013	4/18/2013	7/18/2013	10/8/2013	4/8/2010	3/30/2011	4/10/2012	1/16/2013	4/18/2013
VOCs (µg/L)										
1,1,1,2-Tetrachloroethane	<0.31	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.31	<0.25	<0.25
1,1,2-Trichloroethane	<0.3	<0.28	<0.28	<0.28	<0.28	<0.25	<0.25	<0.3	<0.28	<0.28
1,1-Dichloroethene	<0.29	<0.31	<0.31	<0.31	<0.31	<0.5	<0.5	<0.29	<0.31	<0.31
1,2,4-Trimethylbenzene	<0.22	<0.14	<0.14	<0.14	<0.14	<0.2	<0.2	<0.22	<0.14	<0.14
1,2-Dibromoethane	<0.45	<0.36	<0.36	<0.36	<0.36	<0.2	<0.2	<0.45	<0.36	<0.36
1,2-Dichlorobenzene	<0.21	<0.27	<0.27	<0.27	<0.27	<0.2	<0.2	<0.21	<0.27	<0.27
1,2-Dichloropropane	<0.36	<0.2	<0.2	<0.2	<0.2	<0.5	<0.5	<0.36	<0.2	<0.2
1,3,5-Trimethylbenzene	<0.23	<0.18	<0.18	<0.18	<0.18	<0.2	<0.2	<0.23	<0.18	<0.18
Benzene	<0.12	<0.074	<0.074	<0.074	<0.074	<0.2	<0.2	<0.12	<0.074	<0.074
Bromoform	<0.45	<0.28	<0.28	<0.28	<0.28	<0.2	<0.2	<0.45	<0.28	<0.28
Bromomethane	<0.49	<0.31	<0.31	<0.31	<0.31	<0.5	<0.5	<0.49	<0.31	<0.31
Carbon tetrachloride	<0.28	<0.26	<0.26	<0.26	<0.26	<0.8	<0.8	<0.28	<0.26	<0.26
Chloroform	<0.25	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.25	<0.2	<0.2
Chloromethane	<0.24	<0.18	<0.18	<0.18	<0.18	<0.3	<0.3	<0.24	<0.18	<0.18
cis-1,2-Dichloroethene	<0.22	<0.12	<0.12	<0.12	<0.12	<0.5	<0.5	<0.22	<0.12	<0.12
Dichlorodifluoromethane	<0.26	<0.2	<0.2	<0.2	<0.2	<0.5	<0.5	<0.26	<0.2	<0.2
Ethylbenzene	<0.14	<0.13	<0.13	<0.13	<0.13	<0.5	<0.5	<0.14	<0.13	<0.13
Isopropylbenzene	<0.21	<0.14	<0.14	<0.14	<0.14	<0.2	<0.2	<0.21	<0.14	<0.14
Methyl tert-butyl ether	<0.28	<0.24	<0.24	<0.24	<0.24	<0.5	<0.5	<0.28	<0.24	<0.24
Methylene Chloride	<0.63	<0.68	<0.68	<0.68	<0.68	<1	<1	<0.63	<0.68	<0.68
Naphthalene	<0.24	<0.16	<0.16	<0.16	<0.16	<0.25	<0.25	<0.24	<0.16	<0.16
n-Butylbenzene	<0.21	<0.13	<0.13	<0.13	<0.13	<0.2	<0.2	<0.21	<0.13	<0.13
N-Propylbenzene	<0.19	<0.13	<0.13	<0.13	<0.13	<0.5	<0.5	<0.19	<0.13	<0.13
p-Isopropyltoluene	<0.24	<0.17	<0.17	<0.17	<0.17	<0.2	<0.2	<0.24	<0.17	<0.17
sec-Butylbenzene	<0.19	<0.15	<0.15	<0.15	<0.15	<0.25	<0.25	<0.19	<0.15	<0.15
Styrene	<0.26	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.26	<0.1	<0.1
tert-Butylbenzene	<0.24	<0.14	<0.14	<0.14	<0.14	<0.2	<0.2	<0.24	<0.14	<0.14
Tetrachloroethene	0.96 J	1.4	1.8	0.90 J	1.2	0.9	0.7	<0.22	<0.17	0.51 J
Toluene	0.20 J	<0.11	<0.11	0.26 J	<0.11	<0.5	<0.5	<0.15	<0.11	<0.11
trans-1,2-Dichloroethene	<0.27	<0.25	<0.25	<0.25	<0.25	<0.5	<0.5	<0.27	<0.25	<0.25
Trichloroethene	<0.18	<0.19	<0.19	<0.19	<0.19	<0.2	<0.2	<0.18	<0.19	<0.19
Vinyl chloride	<0.13	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.13	<0.1	<0.1
Xylenes, Total	<0.3	<0.068	<0.068	0.28 J	<0.068	<0.5	<0.5	<0.3	<0.068	<0.068

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-4S (continued)					MW-4D				
	35-50	35-50	35-50	35-50	35-50	65-70	65-70	65-70	65-70	65-70
Sample Interval (feet bls)	4/10/2012	1/15/2013	4/18/2013	7/18/2013	10/8/2013	4/8/2010	3/30/2011	4/10/2012	1/16/2013	4/18/2013
Sample Date	4/10/2012	1/15/2013	4/18/2013	7/18/2013	10/8/2013	4/8/2010	3/30/2011	4/10/2012	1/16/2013	4/18/2013
PAHs (µg/L)										
1-Methylnaphthalene	NA	<1.1	NA	NA	NA	NA	NA	NA	<1.1	NA
2-Methylnaphthalene	NA	<0.14	NA	NA	NA	NA	NA	NA	<0.14	NA
Naphthalene	NA	<0.33	NA	NA	NA	NA	NA	NA	<0.33	NA
Total PCBs (µg/L)										
Aroclor1016	NA	<0.17	NA	NA	NA	NA	NA	NA	<0.17	NA
Aroclor1232	NA	<0.091	NA	NA	NA	NA	NA	NA	<0.093	NA
Aroclor1242	NA	<0.13	NA	NA	NA	NA	NA	NA	<0.13	NA
Total Detected PCBs	NA	ND	NA	NA	NA	NA	NA	NA	ND	NA
Dissolved PCBs (µg/L)										
Aroclor1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (µg/L)										
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-4S (continued)					MW-4D				
	35-50	35-50	35-50	35-50	35-50	65-70	65-70	65-70	65-70	65-70
Sample Interval (feet bls)	4/10/2012	1/15/2013	4/18/2013	7/18/2013	10/8/2013	4/8/2010	3/30/2011	4/10/2012	1/16/2013	4/18/2013
Sample Date	4/10/2012	1/15/2013	4/18/2013	7/18/2013	10/8/2013	4/8/2010	3/30/2011	4/10/2012	1/16/2013	4/18/2013
Total Metals (µg/L) (continued)										
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (µg/L)										
Arsenic	NA	<0.15	NA	NA	NA	NA	NA	NA	<0.15	NA
Barium	NA	120	NA	NA	NA	NA	NA	NA	56	NA
Cadmium	NA	<0.1	NA	NA	NA	NA	NA	NA	<0.1	NA
Chromium	NA	2.8 J	NA	NA	NA	NA	NA	NA	1.9 J	NA
Iron	NA	<37	NA	NA	NA	NA	NA	NA	<37	NA
Lead	NA	<0.16	NA	NA	NA	NA	NA	NA	<0.16	NA
Manganese	NA	32	NA	NA	NA	NA	NA	NA	5.5	NA
Mercury	NA	<0.071	NA	NA	NA	NA	NA	NA	<0.071	NA
Selenium	NA	6.4	NA	NA	NA	NA	NA	NA	0.86 J	NA
Silver	NA	<0.069	NA	NA	NA	NA	NA	NA	<0.069	NA

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

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

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

< Constituent not detected above noted laboratory detection limit.

* 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.

µg/L Micrograms per liter.

NA Not analyzed.

NE Not established.

ND Not detected.

PCBs Polychlorinated Biphenyls.

PAHs Polycyclic Aromatic Hydrocarbons.

VOCs Volatile Organic Compounds.

Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID Sample Interval (feet bls) Sample Date	MW-4D (continued)		MW-4D2						MW-5S	
	65-70 7/17/2013	65-70 10/8/2013	91-96 3/30/2011	91-96 4/10/2012	91-96 1/16/2013	91-96 4/18/2013	91-96 7/18/2013	91-96 10/7/2013	34-44 4/7/2010	34-44 10/1/2010
VOCs (µg/L)										
1,1,1,2-Tetrachloroethane	<0.25	<0.25	<0.25	<0.31	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
1,1,2-Trichloroethane	<0.28	<0.28	<0.25	<0.3	<0.28	<0.28	<0.28	<0.28	<0.25	<0.25
1,1-Dichloroethene	<0.31	<0.31	<0.5	<0.29	<0.31	<0.31	<0.31	<0.31	<0.5	<0.5
1,2,4-Trimethylbenzene	<0.14	<0.14	<0.2	<0.22	<0.14	<0.14	<0.14	<0.14	<0.2	<0.2
1,2-Dibromoethane	<0.36	<0.36	<0.2	<0.45	<0.36	<0.36	<0.36	<0.36	NA	NA
1,2-Dichlorobenzene	<0.27	<0.27	<0.2	<0.21	<0.27	<0.27	<0.27	<0.27	<0.2	<0.2
1,2-Dichloropropane	<0.2	<0.2	<0.5	<0.36	<0.2	<0.2	<0.2	<0.2	<0.5	<0.5
1,3,5-Trimethylbenzene	<0.18	<0.18	<0.2	<0.23	<0.18	<0.18	<0.18	<0.18	<0.2	<0.2
Benzene	<0.074	<0.074	<0.2	<0.12	<0.074	<0.074	<0.074	<0.074	<0.2	<0.2
Bromoform	<0.28	<0.28	<0.2	<0.45	<0.28	<0.28	<0.28	<0.28	<0.2	<0.2
Bromomethane	<0.31	<0.31	<0.5	<0.49	<0.31	<0.31	<0.31	<0.31	<0.5	<0.5
Carbon tetrachloride	<0.26	<0.26	<0.8	<0.28	<0.26	<0.26	<0.26	<0.26	<0.8	<0.8
Chloroform	<0.2	<0.2	<0.2	<0.25	<0.2	<0.2	<0.2	<0.2	<0.2	0.55
Chloromethane	<0.18	<0.18	<0.3	<0.24	<0.18	<0.18	<0.18	<0.18	<0.3	<0.3
cis-1,2-Dichloroethene	<0.12	<0.12	<0.5	<0.22	<0.12	<0.12	<0.12	<0.12	1.4	10
Dichlorodifluoromethane	<0.2	<0.2	<0.5	<0.26	<0.2	<0.2	<0.2	<0.2	<0.5	<0.5
Ethylbenzene	<0.13	<0.13	<0.5	<0.14	<0.13	<0.13	<0.13	<0.13	<0.5	<0.5
Isopropylbenzene	<0.14	<0.14	<0.2	<0.21	<0.14	<0.14	<0.14	<0.14	<0.2	<0.2
Methyl tert-butyl ether	<0.24	<0.24	<0.5	<0.28	<0.24	<0.24	<0.24	<0.24	<0.5	<0.5
Methylene Chloride	<0.68	<0.68	<1	<0.63	<0.68	<0.68	<0.68	<0.68	<1	<1
Naphthalene	<0.16	<0.16	<0.25	<0.24	<0.16	<0.16	<0.16	<0.16	1.4	<0.25
n-Butylbenzene	<0.13	<0.13	<0.2	<0.21	<0.13	<0.13	<0.13	<0.13	<0.2	<0.2
N-Propylbenzene	<0.13	<0.13	<0.5	<0.19	<0.13	<0.13	<0.13	<0.13	<0.5	<0.5
p-Isopropyltoluene	<0.17	<0.17	<0.2	<0.24	<0.17	<0.17	<0.17	<0.17	<0.2	<0.2
sec-Butylbenzene	<0.15	<0.15	<0.25	<0.19	<0.15	<0.15	<0.15	<0.15	<0.25	<0.25
Styrene	<0.1	<0.1	<0.5	<0.26	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5
tert-Butylbenzene	<0.14	<0.14	<0.2	<0.24	<0.14	<0.14	<0.14	<0.14	<0.2	<0.2
Tetrachloroethene	<0.17	<0.17	1.9	0.73 J	1.2	0.92 J	1.2	0.84 J	41	670
Toluene	0.36 J	<0.11	<0.5	0.40 J	<0.11	0.45 J	0.39 J	<0.11	<0.5	<0.5
trans-1,2-Dichloroethene	<0.25	<0.25	<0.5	<0.27	<0.25	<0.25	<0.25	<0.25	<0.5	0.5
Trichloroethene	<0.19	<0.19	<0.2	<0.18	<0.19	<0.19	<0.19	<0.19	1.0	13
Vinyl chloride	<0.1	<0.1	<0.2	<0.13	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2
Xylenes, Total	<0.068	<0.068	<0.5	<0.3	<0.068	<0.068	<0.068	<0.068	<0.5	<0.5

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-4D (continued)		MW-4D2						MW-5S	
	65-70	65-70	91-96	91-96	91-96	91-96	91-96	91-96	34-44	34-44
Sample Interval (feet bls)	7/17/2013	10/8/2013	3/30/2011	4/10/2012	1/16/2013	4/18/2013	7/18/2013	10/7/2013	4/7/2010	10/1/2010
Sample Date	7/17/2013	10/8/2013	3/30/2011	4/10/2012	1/16/2013	4/18/2013	7/18/2013	10/7/2013	4/7/2010	10/1/2010
PAHs (µg/L)										
1-Methylnaphthalene	NA	NA	NA	NA	<1.1	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	<0.15	NA	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA	<0.33	NA	NA	NA	NA	NA
Total PCBs (µg/L)										
Aroclor1016	NA	NA	NA	NA	<0.16	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	NA	NA	<0.087	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	NA	NA	<0.12	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA
Dissolved PCBs (µg/L)										
Aroclor1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (µg/L)										
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-4D (continued)		MW-4D2						MW-5S	
	65-70	65-70	91-96	91-96	91-96	91-96	91-96	91-96	34-44	34-44
Sample Interval (feet bls)	7/17/2013	10/8/2013	3/30/2011	4/10/2012	1/16/2013	4/18/2013	7/18/2013	10/7/2013	4/7/2010	10/1/2010
Sample Date	7/17/2013	10/8/2013	3/30/2011	4/10/2012	1/16/2013	4/18/2013	7/18/2013	10/7/2013	4/7/2010	10/1/2010
Total Metals (µg/L) (continued)										
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (µg/L)										
Arsenic	NA	NA	NA	NA	<0.15	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	78	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	<0.1	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	2.9 J	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	<37	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	<0.16	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	24	NA	NA	NA	NA	NA
Mercury	NA	NA	NA	NA	<0.071	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	2.0 J	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	<0.069	NA	NA	NA	NA	NA

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

- 100** Concentration exceeds the NR 140 Wis. adm. code Preventive Action Limit.
- 100** Concentration exceeds the NR 140 Wis. adm. code Enforcement Standard.
- < Constituent not detected above noted laboratory detection limit.
- * 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.
- µg/L Micrograms per liter.
- NA Not analyzed.
- NE Not established.
- ND Not detected.
- PCBs Polychlorinated Biphenyls.
- PAHs Polycyclic Aromatic Hydrocarbons.
- VOCs Volatile Organic Compounds.

Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-5S (continued)							MW-5D			
	34-44	34-44	34-44	34-44	34-44	34-44	34-44	75-80	75-80	75-80	75-80
Sample Interval (feet bls)	4/12/2012	11/28/2012	1/17/2013	2/13/2013	4/19/2013	7/18/2013	10/4/2013	4/7/2010	4/12/2012	11/28/2012	1/17/2013
Sample Date	4/12/2012	11/28/2012	1/17/2013	2/13/2013	4/19/2013	7/18/2013	10/4/2013	4/7/2010	4/12/2012	11/28/2012	1/17/2013
VOCs (µg/L)											
1,1,1,2-Tetrachloroethane	<0.31	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<5	<0.31	<1.3	<0.5
1,1,2-Trichloroethane	<0.3	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<5	<0.3	<1.4	<0.56
1,1-Dichloroethene	<0.29	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<10	<0.29	<1.6	<0.62
1,2,4-Trimethylbenzene	<0.22	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<4	<0.22	<0.7	<0.28
1,2-Dibromoethane	<0.45	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	NA	<0.45	<1.8	<0.72
1,2-Dichlorobenzene	<0.21	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<4	<0.21	<1.4	<0.54
1,2-Dichloropropane	<0.36	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<10	<0.36	<1	<0.4
1,3,5-Trimethylbenzene	<0.23	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<4	<0.23	<0.9	<0.36
Benzene	<0.12	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<4	0.29 J	1.1 J	1.2
Bromoform	<0.45	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<4	<0.45	<1.4	<0.56
Bromomethane	<0.49	<0.31	0.73 J	<0.31 *	<0.31	<0.31	<0.31	<10	<0.49	<1.6	<0.62
Carbon tetrachloride	1.2	1.1	<0.26	1.4	1.1	1.3	1.3	<16	<0.28	<1.3	<0.52
Chloroform	0.84 J	0.79 J	0.79 J	<0.2	<0.2	<0.2	0.61 J	<4	<0.25	<1	1.0 J
Chloromethane	<0.24	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<6	<0.24	<0.9	<0.36
cis-1,2-Dichloroethene	13	4.2	3.8	2.7	2	2.9	2.9	48	26	93	110
Dichlorodifluoromethane	<0.26	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<10	<0.26	<1	<0.4
Ethylbenzene	<0.14	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<10	<0.14	<0.65	<0.26
Isopropylbenzene	<0.21	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<4	<0.21	<0.7	<0.28
Methyl tert-butyl ether	<0.28	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<10	<0.28	<1.2	<0.48
Methylene Chloride	<0.63	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<20	<0.63	<3.4	<1.4
Naphthalene	<0.24	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<5	<0.24	<0.8	<0.32
n-Butylbenzene	<0.21	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<4	<0.21	<0.65	<0.26
N-Propylbenzene	<0.19	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<10	<0.19	<0.65	<0.26
p-Isopropyltoluene	<0.24	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<4	<0.24	<0.85	<0.34
sec-Butylbenzene	<0.19	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<5	<0.19	<0.75	<0.3
Styrene	<0.26	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<10	<0.26	<0.5	<0.2
tert-Butylbenzene	<0.24	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<4	<0.24	<0.7	<0.28
Tetrachloroethene	360	240	260	210	130	190	170	1,100	400	2,000	1,800
Toluene	<0.15	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<10	0.30 J	<0.55	<0.22
trans-1,2-Dichloroethene	<0.27	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<10	1.3	3.9 J	3.9
Trichloroethene	10	4.7	4.4	3.8	2.8	3	2.9	100	48	190	180
Vinyl chloride	<0.13	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<4	<0.13	<0.5	<0.2
Xylenes, Total	<0.3	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<10	<0.3	<0.34	<0.14

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-5S (continued)							MW-5D			
	34-44	34-44	34-44	34-44	34-44	34-44	34-44	75-80	75-80	75-80	75-80
Sample Interval (feet bls)	4/12/2012	11/28/2012	1/17/2013	2/13/2013	4/19/2013	7/18/2013	10/4/2013	4/7/2010	4/12/2012	11/28/2012	1/17/2013
Sample Date	4/12/2012	11/28/2012	1/17/2013	2/13/2013	4/19/2013	7/18/2013	10/4/2013	4/7/2010	4/12/2012	11/28/2012	1/17/2013
PAHs (µg/L)											
1-Methylnaphthalene	NA	NA	<1.1	NA	NA	NA	NA	NA	NA	NA	<1.1
2-Methylnaphthalene	NA	NA	<0.14	NA	NA	NA	NA	NA	NA	NA	<0.14
Naphthalene	NA	NA	<0.32	NA	NA	NA	NA	NA	NA	NA	<0.32
Total PCBs (µg/L)											
Aroclor1016	NA	NA	<0.17	NA	NA	NA	NA	NA	NA	NA	<0.17
Aroclor1232	NA	NA	<0.091	NA	NA	NA	NA	NA	NA	NA	<0.094
Aroclor1242	NA	NA	<0.13	NA	NA	NA	NA	NA	NA	NA	<0.13
Total Detected PCBs	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	ND
Dissolved PCBs (µg/L)											
Aroclor1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (µg/L)											
Arsenic	NA	0.36 J	0.28 J	0.30 J	NA	NA	NA	NA	NA	0.25 J	0.15 J
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	4.3 J	3.8 J	3.5 J	NA	NA	NA	NA	NA	33	20
Iron	NA	310	75 J	150	NA	NA	NA	NA	NA	220	<37
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	48	5.3 B	14 B	NA	NA	NA	NA	NA	20	9.4 B

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-5S (continued)							MW-5D			
	34-44	34-44	34-44	34-44	34-44	34-44	34-44	75-80	75-80	75-80	75-80
Sample Interval (feet bls)	4/12/2012	11/28/2012	1/17/2013	2/13/2013	4/19/2013	7/18/2013	10/4/2013	4/7/2010	4/12/2012	11/28/2012	1/17/2013
Sample Date	4/12/2012	11/28/2012	1/17/2013	2/13/2013	4/19/2013	7/18/2013	10/4/2013	4/7/2010	4/12/2012	11/28/2012	1/17/2013
Total Metals (µg/L) (continued)											
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (µg/L)											
Arsenic	NA	0.24 J	0.26 J	0.25 J	NA	NA	NA	NA	NA	<0.15	0.15 J
Barium	NA	96	97	92	NA	NA	NA	NA	NA	24	24
Cadmium	NA	<0.1	<0.1	<0.1	NA	NA	NA	NA	NA	<0.1	<0.1
Chromium	NA	3.8 J	3.8 J	2.9 J	NA	NA	NA	NA	NA	22	21
Iron	NA	<37	<37	<37	NA	NA	NA	NA	NA	<37	<37
Lead	NA	<0.16	0.20 J	0.36 J B	NA	NA	NA	NA	NA	<0.16	<0.16
Manganese	NA	8.8	0.86 J B	6.4 B	NA	NA	NA	NA	NA	10	10 B
Mercury	NA	0.17 J B	<0.071	<0.071	NA	NA	NA	NA	NA	0.22 B	<0.071
Selenium	NA	<0.25	<0.25	<0.25	NA	NA	NA	NA	NA	<0.25	<0.25
Silver	NA	<0.069	<0.069	<0.069	NA	NA	NA	NA	NA	<0.069	<0.069

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

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

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

< Constituent not detected above noted laboratory detection limit.

* 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.

µg/L Micrograms per liter.

NA Not analyzed.

NE Not established.

ND Not detected.

PCBs Polychlorinated Biphenyls.

PAHs Polycyclic Aromatic Hydrocarbons.

VOCs Volatile Organic Compounds.

Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-5D (continued)				MW-5D2					MW-5D3
	75-80	75-80	75-80	75-80	165.8-170.8	165.8-170.8	165.8-170.8	165.8-170.8	165.8-170.8	225-235
Sample Interval (feet bls)	75-80	75-80	75-80	75-80	165.8-170.8	165.8-170.8	165.8-170.8	165.8-170.8	165.8-170.8	225-235
Sample Date	2/13/2013	4/19/2013	7/18/2013	10/4/2013	1/17/2013	2/13/2013	4/19/2013	7/18/2013	10/9/2013	11/28/2012
VOCs (µg/L)										
1,1,1,2-Tetrachloroethane	<0.5	<0.5	<1.3	<1.3	<0.25	<0.25	<0.25	<0.5	<0.25	<0.25
1,1,2-Trichloroethane	<0.56	<0.56	<1.4	<1.4	<0.28	<0.28	<0.28	<0.56	<0.28	<0.28
1,1-Dichloroethene	<0.62	<0.62	<1.6	<1.6	<0.31	<0.31	<0.31	<0.62	<0.31	<0.31
1,2,4-Trimethylbenzene	<0.28	<0.28	<0.7	<0.7	<0.14	<0.14	<0.14	<0.28	<0.14	<0.14
1,2-Dibromoethane	<0.72	<0.72	<1.8	<1.8	<0.36	<0.36	<0.36	<0.72	<0.36	<0.36
1,2-Dichlorobenzene	<0.54	<0.54	<1.4	<1.4	<0.27	<0.27	<0.27	<0.54	<0.27	<0.27
1,2-Dichloropropane	<0.4	<0.4	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.2	<0.2
1,3,5-Trimethylbenzene	<0.36	<0.36	<0.9	<0.9	<0.18	<0.18	<0.18	<0.36	<0.18	<0.18
Benzene	1	0.88 J	1.5 J	2.8	<0.074	<0.074	<0.074	<0.15	<0.074	<0.074
Bromoform	<0.56	<0.56	<1.4	<1.4	<0.28	<0.28	<0.28	<0.56	<0.28	<0.28
Bromomethane	<0.62 *	<0.62	<1.6	<1.6	<0.31	<0.31 *	<0.31	<0.62	<0.31	<0.31
Carbon tetrachloride	<0.52	<0.52	<1.3	<1.3	<0.26	<0.26	<0.26	<0.52	<0.26	<0.26
Chloroform	<0.4	<0.4	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.2	<0.2
Chloromethane	<0.36	<0.36	<0.9	<0.9	<0.18	<0.18	<0.18	<0.36	<0.18	<0.18
cis-1,2-Dichloroethene	94	100	120	140	6.6	9.2	4.7	3.6	1.5	3.1
Dichlorodifluoromethane	<0.4	<0.4	<1	<1	<0.2	<0.2	<0.2	<0.4	<0.2	<0.2
Ethylbenzene	<0.26	<0.26	<0.65	<0.65	<0.13	<0.13	<0.13	<0.26	<0.13	<0.13
Isopropylbenzene	<0.28	<0.28	<0.7	<0.7	<0.14	<0.14	<0.14	<0.28	<0.14	<0.14
Methyl tert-butyl ether	<0.48	<0.48	<1.2	<1.2	<0.24	<0.24	<0.24	<0.48	<0.24	<0.24
Methylene Chloride	<1.4	<1.4	<3.4	<3.4	<0.68	<0.68	<0.68	<1.4	5.7	<0.68
Naphthalene	<0.32	<0.32	<0.8	<0.8	<0.16	<0.16	<0.16	<0.32	<0.16	<0.16
n-Butylbenzene	<0.26	<0.26	<0.65	<0.65	<0.13	<0.13	<0.13	<0.26	<0.13	<0.13
N-Propylbenzene	<0.26	<0.26	<0.65	<0.65	<0.13	<0.13	<0.13	<0.26	<0.13	<0.13
p-Isopropyltoluene	<0.34	<0.34	<0.85	<0.85	<0.17	<0.17	<0.17	<0.34	<0.17	<0.17
sec-Butylbenzene	<0.3	<0.3	<0.75	<0.75	<0.15	<0.15	<0.15	<0.3	<0.15	<0.15
Styrene	<0.2	<0.2	<0.5	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1
tert-Butylbenzene	<0.28	<0.28	<0.7	<0.7	<0.14	<0.14	<0.14	<0.28	<0.14	<0.14
Tetrachloroethene	1,700	1,200	2,000	2,000	650	650	640	710	110	19
Toluene	<0.22	<0.22	<0.55	<0.55	0.7	0.22 J	0.35 J	2.4	0.43 J	<0.11
trans-1,2-Dichloroethene	3.1	3.4	3.8 J	2.9 J	<0.25	<0.25	<0.25	<0.5	<0.25	<0.25
Trichloroethene	180	170	160	110	9.5	8.4	7.4	8.1	6.1	2.6
Vinyl chloride	<0.2	<0.2	<0.5	<0.5	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1
Xylenes, Total	<0.14	<0.14	<0.34	<0.34	<0.068	<0.068	<0.068	<0.14	<0.068	<0.068

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-5D (continued)				MW-5D2					MW-5D3
	75-80	75-80	75-80	75-80	165.8-170.8	165.8-170.8	165.8-170.8	165.8-170.8	165.8-170.8	225-235
Sample Interval (feet bls)	2/13/2013	4/19/2013	7/18/2013	10/4/2013	1/17/2013	2/13/2013	4/19/2013	7/18/2013	10/9/2013	11/28/2012
PAHs (µg/L)										
1-Methylnaphthalene	NA	NA	NA	NA	<1.1	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	<0.15	NA	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA	<0.34	NA	NA	NA	NA	NA
Total PCBs (µg/L)										
Aroclor1016	NA	NA	NA	NA	<0.19	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	NA	NA	<0.1	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	NA	NA	<0.14	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA
Dissolved PCBs (µg/L)										
Aroclor1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (µg/L)										
Arsenic	0.18 J	NA	NA	NA	0.18 J	0.16 J	NA	NA	NA	0.61 J
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	22	NA	NA	NA	6.5	4.7 J	NA	NA	NA	1.3 J
Iron	<37	NA	NA	NA	250	89 J	NA	NA	NA	840
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	10 B	NA	NA	NA	34 B	52 B	NA	NA	NA	400

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-5D (continued)				MW-5D2					MW-5D3
	75-80	75-80	75-80	75-80	165.8-170.8	165.8-170.8	165.8-170.8	165.8-170.8	165.8-170.8	225-235
Sample Interval (feet bls)	75-80	75-80	75-80	75-80	165.8-170.8	165.8-170.8	165.8-170.8	165.8-170.8	165.8-170.8	225-235
Sample Date	2/13/2013	4/19/2013	7/18/2013	10/4/2013	1/17/2013	2/13/2013	4/19/2013	7/18/2013	10/9/2013	11/28/2012
Total Metals (µg/L) (continued)										
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (µg/L)										
Arsenic	0.22 J	NA	NA	NA	<0.15	0.16 J	NA	NA	NA	0.30 J
Barium	24	NA	NA	NA	22	23	NA	NA	NA	70
Cadmium	<0.1	NA	NA	NA	<0.1	<0.1	NA	NA	NA	<0.1
Chromium	22	NA	NA	NA	5.1	4.8 J	NA	NA	NA	1.1 J
Iron	<37	NA	NA	NA	<37	66 J	NA	NA	NA	850
Lead	0.73 B	NA	NA	NA	<0.16	0.37 J B	NA	NA	NA	<0.16
Manganese	12 B	NA	NA	NA	29 B	49 B	NA	NA	NA	430
Mercury	0.078 J	NA	NA	NA	<0.071	<0.071	NA	NA	NA	0.17 J B
Selenium	<0.25	NA	NA	NA	1.6 J	1.3 J	NA	NA	NA	<0.25
Silver	<0.069	NA	NA	NA	<0.069	<0.069	NA	NA	NA	<0.069

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

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

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

< Constituent not detected above noted laboratory detection limit.

* 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.

µg/L Micrograms per liter.

NA Not analyzed.

NE Not established.

ND Not detected.

PCBs Polychlorinated Biphenyls.

PAHs Polycyclic Aromatic Hydrocarbons.

VOCs Volatile Organic Compounds.

Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-5D3 (continued)					MW-6S				
	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 Interval (feet bls)	1/18/2013	2/13/2013	4/21/2013	7/17/2013	10/7/2013	12/31/2009	4/7/2010	7/1/2010	10/1/2010	12/28/2010
Sample Date	1/18/2013	2/13/2013	4/21/2013	7/17/2013	10/7/2013	12/31/2009	4/7/2010	7/1/2010	10/1/2010	12/28/2010
VOCs (µg/L)										
1,1,1,2-Tetrachloroethane	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
1,1,2-Trichloroethane	<0.28	<0.28	<0.28	<0.28	<0.28	<0.25	<0.25	<0.25	<0.25	<0.25
1,1-Dichloroethene	<0.31	<0.31	<0.31	<0.31	<0.31	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-Trimethylbenzene	<0.14	<0.14	<0.14	<0.14	<0.14	4.3	3.3	1.3	2.2	3.2
1,2-Dibromoethane	<0.36	<0.36	<0.36	<0.36	<0.36	<0.2	<0.2	<0.2	<0.2	<0.2
1,2-Dichlorobenzene	<0.27	<0.27	<0.27	<0.27	<0.27	<0.2	<0.2	<0.2	<0.2	<0.2
1,2-Dichloropropane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5
1,3,5-Trimethylbenzene	<0.18	<0.18	<0.18	<0.18	<0.18	0.92	7.3	0.27	4.6	0
Benzene	0.28 J	<0.074	<0.074	<0.074	<0.074	7.6	7.9	5	5.3	5
Bromoform	<0.28	<0.28	<0.28	<0.28	<0.28	<0.2	<0.2	<0.2	<0.2	<0.2
Bromomethane	<0.31	<0.31 *	<0.31	<0.31	<0.31	<0.5	<0.5	<0.5	<0.5	<0.5
Carbon tetrachloride	<0.26	<0.26	<0.26	<0.26	<0.26	<0.8	<0.8	<0.8	<0.8	<0.8
Chloroform	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chloromethane	<0.18	<0.18	<0.18	<0.18	<0.18	<0.3	<0.3	<0.3	<0.3	<0.3
cis-1,2-Dichloroethene	12	12	1.6	2.1	4.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorodifluoromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	<0.13	<0.13	<0.13	0.32 J	<0.13	23	14	6	13	15
Isopropylbenzene	<0.14	<0.14	<0.14	<0.14	<0.14	12	9.4	5.3	7.5	6.4
Methyl tert-butyl ether	<0.24	<0.24	<0.24	<0.24	<0.24	<0.5	<0.5	<0.5	<0.5	<0.5
Methylene Chloride	<0.68	<0.68	<0.68	<0.68	<0.68	<1	<1	<1	<1	<1
Naphthalene	<0.16	<0.16	<0.16	<0.16	<0.16	26	14	6.4	10	16
n-Butylbenzene	<0.13	<0.13	<0.13	<0.13	<0.13	1.6	1.6	0.92	1.2	0.86
N-Propylbenzene	<0.13	<0.13	<0.13	<0.13	<0.13	4.9	3.7	1.9	3.3	3.0
p-Isopropyltoluene	<0.17	<0.17	<0.17	<0.17	<0.17	1.7	1.6	0.7	1.1	0.8
sec-Butylbenzene	<0.15	<0.15	<0.15	<0.15	<0.15	1.9	1.8	1.5	1.5	1.0
Styrene	<0.1	<0.1	<0.1	<0.1	<0.1	0.53	0.51	<0.5	<0.5	1.1
tert-Butylbenzene	<0.14	<0.14	<0.14	<0.14	<0.14	0.27	0.31	0.22	0.24	<0.2
Tetrachloroethene	0.59 J	0.83 J	1.8	0.78 J	1.5	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	<0.11	<0.11	0.29 J	0.53	0.20 J	3.3	3.3	1.2	1.8	2
trans-1,2-Dichloroethene	<0.25	<0.25	<0.25	<0.25	<0.25	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethene	<0.19	<0.19	<0.19	<0.19	0.29 J	<0.2	<0.2	<0.2	<0.2	<0.2
Vinyl chloride	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.2	<0.2
Xylenes, Total	<0.068	<0.068	<0.068	0.68 J	<0.068	10	8.2	2.6	4.5	6.4

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-5D3 (continued)					MW-6S				
	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 Interval (feet bls)	1/18/2013	2/13/2013	4/21/2013	7/17/2013	10/7/2013	12/31/2009	4/7/2010	7/1/2010	10/1/2010	12/28/2010
Sample Date	1/18/2013	2/13/2013	4/21/2013	7/17/2013	10/7/2013	12/31/2009	4/7/2010	7/1/2010	10/1/2010	12/28/2010
PAHs (µg/L)										
1-Methylnaphthalene	<1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	<0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	<0.34	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs (µg/L)										
Aroclor1016	<0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	<0.09	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	<0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs (µg/L)										
Aroclor1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (µg/L)										
Arsenic	1.1	0.66 J	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	1.2 J	2.4 J	NA	NA	NA	NA	NA	NA	NA	NA
Iron	1,000	1,300	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	570	620 B	NA	NA	NA	NA	NA	NA	NA	NA

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-5D3 (continued)					MW-6S				
	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 Interval (feet bls)	1/18/2013	2/13/2013	4/21/2013	7/17/2013	10/7/2013	12/31/2009	4/7/2010	7/1/2010	10/1/2010	12/28/2010
Sample Date	1/18/2013	2/13/2013	4/21/2013	7/17/2013	10/7/2013	12/31/2009	4/7/2010	7/1/2010	10/1/2010	12/28/2010
Total Metals (µg/L) (continued)										
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (µg/L)										
Arsenic	0.61 J	0.63 J	NA	NA	NA	NA	NA	NA	NA	NA
Barium	68	61	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	<0.1	<0.1	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	<0.64	0.85 J	NA	NA	NA	NA	NA	NA	NA	NA
Iron	970	1,100	NA	NA	NA	NA	NA	NA	NA	NA
Lead	<0.16	0.39 J B	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	560	600 B	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	<0.071	<0.071	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	<0.25	<0.25	NA	NA	NA	NA	NA	NA	NA	NA
Silver	<0.069	<0.069	NA	NA	NA	NA	NA	NA	NA	NA

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

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

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

< Constituent not detected above noted laboratory detection limit.

* 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.

µg/L Micrograms per liter.

NA Not analyzed.

NE Not established.

ND Not detected.

PCBs Polychlorinated Biphenyls.

PAHs Polycyclic Aromatic Hydrocarbons.

VOCs Volatile Organic Compounds.

Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID Sample Interval (feet bls) Sample Date	MW-6S (continued)					MW-6D				
	31.4-41.4 4/11/2012	31.4-41.4 1/17/2013	31.4-41.4 4/20/2013	31.4-41.4 7/18/2013	31.4-41.4 10/7/2013	65.5-70.5 12/31/2009	65.5-70.5 4/7/2010	65.5-70.5 7/1/2010	65.5-70.5 10/1/2010	65.5-70.5 12/28/2010
VOCs (µg/L)										
1,1,1,2-Tetrachloroethane	<0.31	<0.25	<0.25	<0.25	<0.25	<13	<20	<13	<0.25	<2.5
1,1,2-Trichloroethane	<0.3	<0.28	<0.28	<0.28	<0.28	<13	<20	<13	<0.25	<2.5
1,1-Dichloroethene	<0.29	<0.31	<0.31	<0.31	<0.31	<25	<40	<25	<0.5	<5
1,2,4-Trimethylbenzene	4.8	12	0.92 J	<0.14	1.4	330	130	130	160	180
1,2-Dibromoethane	<0.45	<0.36	<0.36	<0.36	<0.36	15	<16	<10	11	10
1,2-Dichlorobenzene	<0.21	<0.27	<0.27	<0.27	<0.27	<10	<16	<10	<0.2	<2
1,2-Dichloropropane	<0.36	<0.2	<0.2	<0.2	<0.2	<25	<40	<25	7.2	6
1,3,5-Trimethylbenzene	1.5	3.4	<0.18	<0.18	<0.18	23	<16	<10	13	13
Benzene	4.1	9.3	1.9	0.34 J	2.6	3,900	3,200	2,900	<0.2	2,900
Bromoform	<0.45	<0.28	<0.28	<0.28	<0.28	<10	<16	<10	<0.2	<2
Bromomethane	<0.49	<0.31	<0.31	<0.31	<0.31	<25	<40	<25	<0.5	<5
Carbon tetrachloride	<0.28	<0.26	<0.26	<0.26	<0.26	<40	<64	<40	<0.8	<8
Chloroform	<0.25	<0.2	<0.2	<0.2	<0.2	<10	<16	<10	<0.2	<2
Chloromethane	<0.24	<0.18	<0.18	<0.18	<0.18	<15	<24	<15	<0.3	<3
cis-1,2-Dichloroethene	<0.22	<0.12	<0.12	<0.12	<0.12	<25	<40	<25	1.4	<5
Dichlorodifluoromethane	<0.26	<0.2	<0.2	<0.2	<0.2	<25	<40	<25	<0.5	<5
Ethylbenzene	9.8	40	0.18 J	<0.13	8	47	<40	26	39	35
Isopropylbenzene	4.1	12	<0.14	<0.14	3.2	54	43	32	45	40
Methyl tert-butyl ether	<0.28	<0.24	<0.24	<0.24	<0.24	<25	<40	<25	<0.5	<5
Methylene Chloride	8.3	<0.68	<0.68	<0.68	<0.68	<50	<80	<50	<1	<10
Naphthalene	19	43	<0.16	<0.16	3.8	380	280	370	370	360
n-Butylbenzene	<0.21	<0.13	<0.13	<0.13	<0.13	12	<16	<10	10	7.9
N-Propylbenzene	1.8	6.8	<0.13	<0.13	1.3	49	<40	27	36	31
p-Isopropyltoluene	<0.24	2.4	<0.17	<0.17	<0.17	<10	<16	<10	6.5	5.1
sec-Butylbenzene	0.56 J	1.8	<0.15	<0.15	<0.15	<13	<20	<13	4.7	4.2
Styrene	<0.26	0.64 J	<0.1	<0.1	<0.1	<25	<40	<25	3.5	12
tert-Butylbenzene	<0.24	<0.14	<0.14	<0.14	<0.14	<10	<16	<10	<0.2	<2
Tetrachloroethene	<0.22	<0.17	0.53 J	<0.17	<0.17	36	45	27	30	26
Toluene	2.5	6.3	0.8	<0.11	1.1	130	100	88	120	120
trans-1,2-Dichloroethene	<0.27	<0.25	<0.25	<0.25	<0.25	<25	<40	<25	<0.5	<5
Trichloroethene	<0.18	<0.19	<0.19	<0.19	<0.19	<10	<16	<10	4.5	4.5
Vinyl chloride	<0.13	<0.1	<0.1	<0.1	<0.1	<10	<16	<10	<0.2	<2
Xylenes, Total	7.8	25	1.8	<0.068	3.3	630	320	250	450	400

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-6S (continued)					MW-6D				
	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
Sample Interval (feet bls)	4/11/2012	1/17/2013	4/20/2013	7/18/2013	10/7/2013	12/31/2009	4/7/2010	7/1/2010	10/1/2010	12/28/2010
Sample Date	4/11/2012	1/17/2013	4/20/2013	7/18/2013	10/7/2013	12/31/2009	4/7/2010	7/1/2010	10/1/2010	12/28/2010
PAHs (µg/L)										
1-Methylnaphthalene	NA	3.3	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	1	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NA	39	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs (µg/L)										
Aroclor1016	NA	<0.17	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	<0.094	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	<0.13	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs (µg/L)										
Aroclor1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (µg/L)										
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-6S (continued)					MW-6D				
	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
Sample Interval (feet bls)	4/11/2012	1/17/2013	4/20/2013	7/18/2013	10/7/2013	12/31/2009	4/7/2010	7/1/2010	10/1/2010	12/28/2010
Sample Date	4/11/2012	1/17/2013	4/20/2013	7/18/2013	10/7/2013	12/31/2009	4/7/2010	7/1/2010	10/1/2010	12/28/2010
Total Metals (µg/L) (continued)										
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (µg/L)										
Arsenic	NA	4.3	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	250	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	<0.1	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	<0.64	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	4,100	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	<0.16	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	1,800	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	NA	<0.071	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	1.5 J	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	<0.069	NA	NA	NA	NA	NA	NA	NA	NA

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

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

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

< Constituent not detected above noted laboratory detection limit.

* 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.

µg/L Micrograms per liter.

NA Not analyzed.

NE Not established.

ND Not detected.

PCBs Polychlorinated Biphenyls.

PAHs Polycyclic Aromatic Hydrocarbons.

VOCs Volatile Organic Compounds.

Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-6D (continued)						MW-7			
	65.5-70.5	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
Sample Interval (feet bls)	65.5-70.5	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
Sample Date	3/31/2011	4/12/2012	1/16/2013	4/20/2013	7/18/2013	10/7/2013	8/26/2011	4/10/2012	1/14/2013	4/16/2013
VOCs (µg/L)										
1,1,1,2-Tetrachloroethane	<10	<0.62	<0.5	<0.5	<0.5	<0.25	<0.25	<0.31	<0.25	<0.25
1,1,2-Trichloroethane	<10	<0.6	<0.56	<0.56	<0.56	<0.28	<0.25	<0.3	<0.28	<0.28
1,1-Dichloroethene	<20	<0.58	<0.62	<0.62	<0.62	<0.31	<0.5	<0.29	<0.31	<0.31
1,2,4-Trimethylbenzene	74	19	23	11	16	41	<0.2	<0.22	<0.14	<0.14
1,2-Dibromoethane	<8	<0.9	<0.72	<0.72	<0.72	<0.36	<0.2	<0.45	<0.36	<0.36
1,2-Dichlorobenzene	<8	<0.42	<0.54	<0.54	<0.54	<0.27	<0.2	<0.21	<0.27	<0.27
1,2-Dichloropropane	<20	<0.72	<0.4	1.9 J	<0.4	<0.2	<0.5	<0.36	<0.2	<0.2
1,3,5-Trimethylbenzene	<8	<0.46	<0.36	<0.36	<0.36	0.71 J	<0.2	<0.23	<0.18	<0.18
Benzene	2,100	1,500	1,300	600	810	1,000	<0.2	<0.12	<0.074	<0.074
Bromoform	<8	<0.9	<0.56	<0.56	<0.56	<0.28	<0.2	<0.45	<0.28	<0.28
Bromomethane	<20	<0.98	<0.62	<0.62	<0.62	<0.31	<0.5	<0.49	<0.31	<0.31
Carbon tetrachloride	<32	<0.56	<0.52	<0.52	<0.52	<0.26	<0.8	<0.28	<0.26	<0.26
Chloroform	<8	3.6	<0.4	<0.4	<0.4	<0.2	<0.2	<0.25	<0.2	<0.2
Chloromethane	<12	<0.48	<0.36	<0.36	<0.36	<0.18	<0.3	<0.24	<0.18	<0.18
cis-1,2-Dichloroethene	<20	<0.44	<0.24	<0.24	<0.24	0.89 J	<0.5	<0.22	<0.12	<0.12
Dichlorodifluoromethane	<20	<0.52	<0.4	<0.4	<0.4	<0.2	<0.5	<0.26	<0.2	<0.2
Ethylbenzene	<20	8.7	7.5	3.5	7.1	8.1	<0.5	<0.14	<0.13	<0.13
Isopropylbenzene	35	23	30	16	27	29	<0.2	<0.21	<0.14	<0.14
Methyl tert-butyl ether	<20	<0.56	<0.48	<0.48	<0.48	<0.24	<0.5	<0.28	<0.24	<0.24
Methylene Chloride	<40	<1.3	<1.4	<1.4	<1.4	<0.68	<1	<0.63	<0.68	<0.68
Naphthalene	190	110	54	3.9	50	72	<0.25	<0.24	<0.16	<0.16
n-Butylbenzene	<8	<0.42	<0.26	<0.26	5	<0.13	<0.2	<0.21	<0.13	<0.13
N-Propylbenzene	21	11	13	5.4	12	14	<0.5	<0.19	<0.13	<0.13
p-Isopropyltoluene	<8	2.6	3.8	1.7 J	3.2	3.4	<0.2	<0.24	<0.17	<0.17
sec-Butylbenzene	<10	2.2	3.4	2	3.2	3.2	<0.25	<0.19	<0.15	<0.15
Styrene	<20	<0.52	<0.2	<0.2	<0.2	1	<0.5	<0.26	<0.1	<0.1
tert-Butylbenzene	<8	<0.48	<0.28	<0.28	<0.28	<0.14	<0.2	<0.24	<0.14	<0.14
Tetrachloroethene	28	20	25	22	23	17	<0.5	<0.22	<0.17	<0.17
Toluene	58	36	30	9	24	38	<0.5	<0.15	<0.11	<0.11
trans-1,2-Dichloroethene	<20	<0.54	<0.5	<0.5	<0.5	<0.25	<0.5	<0.27	<0.25	<0.25
Trichloroethene	<8	3.9	11	13	12	18	<0.2	<0.18	<0.19	<0.19
Vinyl chloride	<8	<0.26	<0.2	<0.2	<0.2	<0.1	<0.2	<0.13	<0.1	<0.1
Xylenes, Total	130	40	40	12	34	63	<0.5	<0.3	<0.068	<0.068

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-6D (continued)						MW-7			
	65.5-70.5	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
Sample Interval (feet bls)	3/31/2011	4/12/2012	1/16/2013	4/20/2013	7/18/2013	10/7/2013	8/26/2011	4/10/2012	1/14/2013	4/16/2013
Sample Date	3/31/2011	4/12/2012	1/16/2013	4/20/2013	7/18/2013	10/7/2013	8/26/2011	4/10/2012	1/14/2013	4/16/2013
PAHs (µg/L)										
1-Methylnaphthalene	NA	NA	<1.1	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	<0.15	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NA	NA	31	NA	NA	NA	NA	NA	NA	NA
Total PCBs (µg/L)										
Aroclor1016	NA	NA	<0.17	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	<0.094	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	<0.13	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs (µg/L)										
Aroclor1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (µg/L)										
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-6D (continued)						MW-7			
	65.5-70.5	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
Sample Interval (feet bls)	3/31/2011	4/12/2012	1/16/2013	4/20/2013	7/18/2013	10/7/2013	8/26/2011	4/10/2012	1/14/2013	4/16/2013
Sample Date	3/31/2011	4/12/2012	1/16/2013	4/20/2013	7/18/2013	10/7/2013	8/26/2011	4/10/2012	1/14/2013	4/16/2013
Total Metals (µg/L) (continued)										
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (µg/L)										
Arsenic	NA	NA	0.34 J	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	590	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	<0.1	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	0.71 J	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	5400 B	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	<0.16	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	1,800	NA	NA	NA	NA	NA	NA	NA
Mercury	NA	NA	<0.071	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	0.39 J	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	<0.069	NA	NA	NA	NA	NA	NA	NA

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

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

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

< Constituent not detected above noted laboratory detection limit.

* 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.

µg/L Micrograms per liter.

NA Not analyzed.

NE Not established.

ND Not detected.

PCBs Polychlorinated Biphenyls.

PAHs Polycyclic Aromatic Hydrocarbons.

VOCs Volatile Organic Compounds.

Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-7 (continued)		MW-8						MW-9D	
	24-35	24-35	24-34	24-34	24-34	24-34	24-34	24-34	44-49	44-49
Sample Interval (feet bls)	7/17/2013	10/3/2013	8/26/2011	4/10/2012	1/15/2013	4/16/2013	7/17/2013	10/3/2013	9/9/2011	4/11/2012
Sample Date	7/17/2013	10/3/2013	8/26/2011	4/10/2012	1/15/2013	4/16/2013	7/17/2013	10/3/2013	9/9/2011	4/11/2012
VOCs (µg/L)										
1,1,1,2-Tetrachloroethane	<0.25	<0.25	<0.25	<0.31	<0.25	<0.25	<0.25	<0.25	<0.25	<0.31
1,1,2-Trichloroethane	<0.28	<0.28	<0.25	<0.3	<0.28	<0.28	<0.28	<0.28	<0.25	<0.3
1,1-Dichloroethene	<0.31	<0.31	<0.5	<0.29	<0.31	<0.31	<0.31	<0.31	<0.5	<0.29
1,2,4-Trimethylbenzene	<0.14	<0.14	<0.2	<0.22	<0.14	<0.14	<0.14	<0.14	<0.2	<0.22
1,2-Dibromoethane	<0.36	<0.36	<0.2	<0.45	<0.36	<0.36	<0.36	<0.36	<0.2	<0.45
1,2-Dichlorobenzene	<0.27	<0.27	<0.2	<0.21	<0.27	<0.27	<0.27	<0.27	<0.2	<0.21
1,2-Dichloropropane	<0.2	<0.2	<0.5	<0.36	<0.2	<0.2	<0.2	<0.2	<0.5	<0.36
1,3,5-Trimethylbenzene	<0.18	<0.18	<0.2	<0.23	<0.18	<0.18	<0.18	<0.18	<0.2	<0.23
Benzene	<0.074	<0.074	<0.2	<0.12	<0.074	<0.074	<0.074	<0.074	<0.2	<0.12
Bromoform	<0.28	<0.28	<0.2	<0.45	<0.28	<0.28	<0.28	<0.28	<0.2	<0.45
Bromomethane	<0.31	<0.31	<0.5	<0.49	<0.31	<0.31	<0.31	<0.31	<0.5	<0.49
Carbon tetrachloride	<0.26	<0.26	<0.8	<0.28	<0.26	<0.26	<0.26	<0.26	<0.8	<0.28
Chloroform	<0.2	<0.2	<0.2	<0.25	<0.2	<0.2	<0.2	<0.2	<0.2	<0.25
Chloromethane	<0.18	<0.18	<0.3	<0.24	<0.18	<0.18	<0.18	<0.18	<0.3	<0.24
cis-1,2-Dichloroethene	<0.12	<0.12	<0.5	<0.22	<0.12	<0.12	<0.12	<0.12	<0.5	<0.22
Dichlorodifluoromethane	<0.2	<0.2	<0.5	<0.26	<0.2	<0.2	<0.2	<0.2	<0.5	<0.26
Ethylbenzene	<0.13	<0.13	<0.5	<0.14	<0.13	<0.13	<0.13	<0.13	<0.5	<0.14
Isopropylbenzene	<0.14	<0.14	<0.2	<0.21	<0.14	<0.14	<0.14	<0.14	<0.2	<0.21
Methyl tert-butyl ether	<0.24	<0.24	<0.5	<0.28	<0.24	<0.24	<0.24	<0.24	<0.5	<0.28
Methylene Chloride	<0.68	<0.68	<1	<0.63	<0.68	<0.68	<0.68	<0.68	<1	9
Naphthalene	<0.16	<0.16	<0.25	<0.24	<0.16	<0.16	<0.16	<0.16	<0.25	<0.24
n-Butylbenzene	<0.13	<0.13	<0.2	<0.21	<0.13	<0.13	<0.13	<0.13	<0.2	<0.21
N-Propylbenzene	<0.13	<0.13	<0.5	<0.19	<0.13	<0.13	<0.13	<0.13	<0.5	<0.19
p-Isopropyltoluene	<0.17	<0.17	<0.2	<0.24	<0.17	<0.17	<0.17	<0.17	<0.2	<0.24
sec-Butylbenzene	<0.15	<0.15	<0.25	<0.19	<0.15	<0.15	<0.15	<0.15	<0.25	<0.19
Styrene	<0.1	<0.1	<0.5	<0.26	<0.1	<0.1	<0.1	<0.1	<0.5	<0.26
tert-Butylbenzene	<0.14	<0.14	<0.2	<0.24	<0.14	<0.14	<0.14	<0.14	<0.2	<0.24
Tetrachloroethene	<0.17	<0.17	<0.5	<0.22	<0.17	<0.17	<0.17	<0.17	<0.5	<0.22
Toluene	<0.11	<0.11	<0.5	<0.15	<0.11	<0.11	<0.11	<0.11	<0.5	<0.15
trans-1,2-Dichloroethene	<0.25	<0.25	<0.5	<0.27	<0.25	<0.25	<0.25	<0.25	<0.5	<0.27
Trichloroethene	<0.19	<0.19	<0.2	<0.18	<0.19	<0.19	<0.19	<0.19	<0.2	<0.18
Vinyl chloride	<0.1	<0.1	<0.2	<0.13	<0.1	<0.1	<0.1	<0.1	<0.2	<0.13
Xylenes, Total	<0.068	<0.068	<0.5	<0.3	<0.068	<0.068	<0.068	<0.068	<0.5	<0.3

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-7 (continued)		MW-8						MW-9D	
	24-35	24-35	24-34	24-34	24-34	24-34	24-34	24-34	44-49	44-49
Sample Interval (feet bls)	7/17/2013	10/3/2013	8/26/2011	4/10/2012	1/15/2013	4/16/2013	7/17/2013	10/3/2013	9/9/2011	4/11/2012
Sample Date	7/17/2013	10/3/2013	8/26/2011	4/10/2012	1/15/2013	4/16/2013	7/17/2013	10/3/2013	9/9/2011	4/11/2012
PAHs (µg/L)										
1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs (µg/L)										
Aroclor1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs (µg/L)										
Aroclor1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (µg/L)										
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-7 (continued)		MW-8						MW-9D	
	24-35	24-35	24-34	24-34	24-34	24-34	24-34	24-34	44-49	44-49
Sample Interval (feet bls)	7/17/2013	10/3/2013	8/26/2011	4/10/2012	1/15/2013	4/16/2013	7/17/2013	10/3/2013	9/9/2011	4/11/2012
Sample Date	7/17/2013	10/3/2013	8/26/2011	4/10/2012	1/15/2013	4/16/2013	7/17/2013	10/3/2013	9/9/2011	4/11/2012
Total Metals (µg/L) (continued)										
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (µg/L)										
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

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

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

< Constituent not detected above noted laboratory detection limit.

* 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.

µg/L Micrograms per liter.

NA Not analyzed.

NE Not established.

ND Not detected.

PCBs Polychlorinated Biphenyls.

PAHs Polycyclic Aromatic Hydrocarbons.

VOCs Volatile Organic Compounds.

Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-9D (continued)				MW-9D2					
	44-49	44-49	44-49	44-49	64-69	64-69	64-69	64-69	64-69	64-69
Sample Interval (feet bls)	1/15/2013	4/18/2013	7/18/2013	10/4/2013	9/9/2011	4/11/2012	1/15/2013	4/18/2013	7/18/2013	10/4/2013
Sample Date	1/15/2013	4/18/2013	7/18/2013	10/4/2013	9/9/2011	4/11/2012	1/15/2013	4/18/2013	7/18/2013	10/4/2013
VOCs (µg/L)										
1,1,1,2-Tetrachloroethane	<0.25	<0.25	<0.25	<0.25	<0.25	<0.31	<0.25	<0.25	<0.25	<0.25
1,1,2-Trichloroethane	<0.28	<0.28	<0.28	<0.28	<0.25	<0.3	<0.28	<0.28	<0.28	<0.28
1,1-Dichloroethene	<0.31	<0.31	<0.31	<0.31	<0.5	<0.29	<0.31	<0.31	<0.31	<0.31
1,2,4-Trimethylbenzene	<0.14	<0.14	<0.14	<0.14	<0.2	<0.22	<0.14	<0.14	<0.14	<0.14
1,2-Dibromoethane	<0.36	<0.36	<0.36	<0.36	<0.2	<0.45	<0.36	<0.36	<0.36	<0.36
1,2-Dichlorobenzene	<0.27	<0.27	<0.27	<0.27	<0.2	<0.21	<0.27	<0.27	<0.27	<0.27
1,2-Dichloropropane	<0.2	<0.2	<0.2	<0.2	<0.5	<0.36	<0.2	<0.2	<0.2	<0.2
1,3,5-Trimethylbenzene	<0.18	<0.18	<0.18	<0.18	<0.2	<0.23	<0.18	<0.18	<0.18	<0.18
Benzene	<0.074	<0.074	<0.074	<0.074	<0.2	<0.12	<0.074	<0.074	<0.074	<0.074
Bromoform	<0.28	<0.28	<0.28	<0.28	<0.2	<0.45	<0.28	<0.28	<0.28	<0.28
Bromomethane	<0.31	<0.31	<0.31	<0.31	<0.5	<0.49	<0.31	<0.31	<0.31	<0.31
Carbon tetrachloride	<0.26	<0.26	<0.26	<0.26	<0.8	<0.28	<0.26	<0.26	<0.26	<0.26
Chloroform	<0.2	<0.2	<0.2	<0.2	<0.2	<0.25	<0.2	<0.2	<0.2	<0.2
Chloromethane	<0.18	<0.18	<0.18	<0.18	<0.3	<0.24	<0.18	<0.18	<0.18	<0.18
cis-1,2-Dichloroethene	<0.12	<0.12	<0.12	<0.12	12	11	14	16	16	18
Dichlorodifluoromethane	<0.2	<0.2	<0.2	<0.2	<0.5	<0.26	<0.2	<0.2	<0.2	<0.2
Ethylbenzene	<0.13	<0.13	<0.13	<0.13	<0.5	<0.14	<0.13	<0.13	<0.13	<0.13
Isopropylbenzene	<0.14	<0.14	<0.14	<0.14	<0.2	<0.21	<0.14	<0.14	<0.14	<0.14
Methyl tert-butyl ether	<0.24	<0.24	<0.24	<0.24	7.4	9.3	20	10	12	15
Methylene Chloride	<0.68	<0.68	<0.68	<0.68	<1	8.8	<0.68	<0.68	<0.68	<0.68
Naphthalene	<0.16	<0.16	<0.16	<0.16	<0.25	<0.24	<0.16	<0.16	<0.16	<0.16
n-Butylbenzene	<0.13	<0.13	<0.13	<0.13	<0.2	<0.21	<0.13	<0.13	<0.13	<0.13
N-Propylbenzene	<0.13	<0.13	<0.13	<0.13	<0.5	<0.19	<0.13	<0.13	<0.13	<0.13
p-Isopropyltoluene	<0.17	<0.17	<0.17	<0.17	<0.2	<0.24	<0.17	<0.17	<0.17	<0.17
sec-Butylbenzene	<0.15	<0.15	<0.15	<0.15	<0.25	<0.19	<0.15	<0.15	<0.15	<0.15
Styrene	<0.1	<0.1	<0.1	<0.1	<0.5	<0.26	<0.1	<0.1	<0.1	<0.1
tert-Butylbenzene	<0.14	<0.14	<0.14	<0.14	<0.2	<0.24	<0.14	<0.14	<0.14	<0.14
Tetrachloroethene	<0.17	<0.17	<0.17	<0.17	29	10	26	28	30	34
Toluene	<0.11	<0.11	<0.11	<0.11	<0.5	<0.15	<0.11	<0.11	<0.11	<0.11
trans-1,2-Dichloroethene	<0.25	<0.25	<0.25	<0.25	<0.5	<0.27	<0.25	<0.25	<0.25	<0.25
Trichloroethene	<0.19	<0.19	<0.19	<0.19	5	3.8	5.5	6	6.3	7.4
Vinyl chloride	<0.1	<0.1	<0.1	<0.1	<0.2	<0.13	<0.1	<0.1	<0.1	<0.1
Xylenes, Total	<0.068	<0.068	<0.068	<0.068	<0.5	<0.3	<0.068	<0.068	<0.068	<0.068

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-9D (continued)				MW-9D2					
	44-49	44-49	44-49	44-49	64-69	64-69	64-69	64-69	64-69	64-69
Sample Interval (feet bls)	1/15/2013	4/18/2013	7/18/2013	10/4/2013	9/9/2011	4/11/2012	1/15/2013	4/18/2013	7/18/2013	10/4/2013
Sample Date	1/15/2013	4/18/2013	7/18/2013	10/4/2013	9/9/2011	4/11/2012	1/15/2013	4/18/2013	7/18/2013	10/4/2013
PAHs (µg/L)										
1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs (µg/L)										
Aroclor1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs (µg/L)										
Aroclor1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (µg/L)										
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-9D (continued)				MW-9D2					
	44-49	44-49	44-49	44-49	64-69	64-69	64-69	64-69	64-69	64-69
Sample Interval (feet bls)	1/15/2013	4/18/2013	7/18/2013	10/4/2013	9/9/2011	4/11/2012	1/15/2013	4/18/2013	7/18/2013	10/4/2013
Sample Date	1/15/2013	4/18/2013	7/18/2013	10/4/2013	9/9/2011	4/11/2012	1/15/2013	4/18/2013	7/18/2013	10/4/2013
Total Metals (µg/L) (continued)										
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (µg/L)										
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

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

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

< Constituent not detected above noted laboratory detection limit.

* 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.

µg/L Micrograms per liter.

NA Not analyzed.

NE Not established.

ND Not detected.

PCBs Polychlorinated Biphenyls.

PAHs Polycyclic Aromatic Hydrocarbons.

VOCs Volatile Organic Compounds.

Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-10S						MW-11S				
	11-21	11-21	11-21	11-21	11-21	11-21	24-34	24-34	24-34	24-34	24-34
Sample Interval (feet bls)	4/10/2012	5/9/2012	1/15/2013	4/17/2013	7/17/2013	10/9/2013	4/12/2012	5/9/2012	1/15/2013	4/17/2013	7/18/2013
Sample Date	4/10/2012	5/9/2012	1/15/2013	4/17/2013	7/17/2013	10/9/2013	4/12/2012	5/9/2012	1/15/2013	4/17/2013	7/18/2013
VOCs (µg/L)											
1,1,1,2-Tetrachloroethane	<0.31	<0.25	<0.25	<0.25	<0.25	<0.25	<0.31	<0.25	<0.25	<0.25	<0.25
1,1,2-Trichloroethane	<0.3	<0.28	<0.28	<0.28	<0.28	<0.28	<0.3	<0.28	<0.28	<0.28	<0.28
1,1-Dichloroethene	<0.29	<0.31	<0.31	<0.31	<0.31	<0.31	<0.29	<0.31	<0.31	<0.31	<0.31
1,2,4-Trimethylbenzene	0.76 J	<0.14	<0.14	<0.14	<0.14	<0.14	0.55 J	<0.14	<0.14	<0.14	<0.14
1,2-Dibromoethane	<0.45	<0.36	<0.36	<0.36	<0.36	<0.36	<0.45	<0.36	<0.36	<0.36	<0.36
1,2-Dichlorobenzene	<0.21	<0.27	<0.27	<0.27	<0.27	<0.27	<0.21	<0.27	<0.27	<0.27	<0.27
1,2-Dichloropropane	<0.36	<0.2	<0.2	<0.2	<0.2	<0.2	<0.36	<0.2	<0.2	<0.2	<0.2
1,3,5-Trimethylbenzene	<0.23	<0.18	<0.18	<0.18	<0.18	<0.18	<0.23	<0.18	<0.18	<0.18	<0.18
Benzene	<0.12	<0.074	<0.074	<0.074	<0.074	<0.074	<0.12	<0.074	<0.074	<0.074	<0.074
Bromoform	<0.45	<0.28	<0.28	<0.28	<0.28	<0.28	<0.45	<0.28	<0.28	<0.28	<0.28
Bromomethane	<0.49	<0.31	<0.31	<0.31	<0.31	<0.31	<0.49	<0.31	<0.31	<0.31	<0.31
Carbon tetrachloride	<0.28	<0.26	<0.26	<0.26	<0.26	<0.26	<0.28	<0.26	<0.26	<0.26	<0.26
Chloroform	<0.25	<0.2	<0.2	<0.2	<0.2	<0.2	<0.25	<0.2	<0.2	<0.2	<0.2
Chloromethane	<0.24	<0.18	<0.18	<0.18	<0.18	<0.18	<0.24	<0.18	<0.18	<0.18	<0.18
cis-1,2-Dichloroethene	<0.22	<0.12	<0.12	<0.12	<0.12	<0.12	<0.22	<0.12	<0.12	<0.12	<0.12
Dichlorodifluoromethane	<0.26	<0.2	<0.2	<0.2	<0.2	<0.2	<0.26	<0.2	<0.2	<0.2	<0.2
Ethylbenzene	0.20 J	<0.13	<0.13	<0.13	<0.13	<0.13	<0.14	<0.13	<0.13	<0.13	<0.13
Isopropylbenzene	<0.21	<0.14	<0.14	<0.14	<0.14	<0.14	<0.21	<0.14	<0.14	<0.14	<0.14
Methyl tert-butyl ether	<0.28	<0.24	<0.24	<0.24	<0.24	<0.24	<0.28	<0.24	<0.24	<0.24	<0.24
Methylene Chloride	<0.63	<0.68	<0.68	<0.68	<0.68	<0.68	<0.63	<0.68	<0.68	<0.68	<0.68
Naphthalene	<0.24	<0.16	<0.16	<0.16	<0.16	<0.16	<0.24	<0.16	<0.16	<0.16	<0.16
n-Butylbenzene	<0.21	<0.13	<0.13	<0.13	<0.13	<0.13	<0.21	<0.13	<0.13	<0.13	<0.13
N-Propylbenzene	<0.19	<0.13	<0.13	<0.13	<0.13	<0.13	<0.19	<0.13	<0.13	<0.13	<0.13
p-Isopropyltoluene	<0.24	<0.17	<0.17	<0.17	<0.17	<0.17	<0.24	<0.17	<0.17	<0.17	<0.17
sec-Butylbenzene	<0.19	<0.15	<0.15	<0.15	<0.15	<0.15	<0.19	<0.15	<0.15	<0.15	<0.15
Styrene	<0.26	<0.1	<0.1	<0.1	<0.1	<0.1	<0.26	<0.1	<0.1	<0.1	<0.1
tert-Butylbenzene	<0.24	<0.14	<0.14	<0.14	<0.14	<0.14	<0.24	<0.14	<0.14	<0.14	<0.14
Tetrachloroethene	<0.22	<0.17	0.85 J	<0.17	<0.17	<0.17	<0.22	<0.17	<0.17	<0.17	<0.17
Toluene	0.54	<0.11	<0.11	<0.11	<0.11	<0.11	0.73	<0.11	<0.11	<0.11	<0.11
trans-1,2-Dichloroethene	<0.27	<0.25	<0.25	<0.25	<0.25	<0.25	<0.27	<0.25	<0.25	<0.25	<0.25
Trichloroethene	<0.18	<0.19	<0.19	<0.19	<0.19	<0.19	<0.18	<0.19	<0.19	<0.19	<0.19
Vinyl chloride	<0.13	<0.1	<0.1	<0.1	<0.1	<0.1	<0.13	<0.1	<0.1	<0.1	<0.1
Xylenes, Total	0.83 J	<0.068	<0.068	<0.068	<0.068	<0.068	0.86 J	<0.068	<0.068	<0.068	<0.068

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-10S						MW-11S				
	11-21	11-21	11-21	11-21	11-21	11-21	24-34	24-34	24-34	24-34	24-34
Sample Interval (feet bls)	4/10/2012	5/9/2012	1/15/2013	4/17/2013	7/17/2013	10/9/2013	4/12/2012	5/9/2012	1/15/2013	4/17/2013	7/18/2013
Sample Date	4/10/2012	5/9/2012	1/15/2013	4/17/2013	7/17/2013	10/9/2013	4/12/2012	5/9/2012	1/15/2013	4/17/2013	7/18/2013
PAHs (µg/L)											
1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs (µg/L)											
Aroclor1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs (µg/L)											
Aroclor1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (µg/L)											
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-10S						MW-11S					
	11-21	11-21	11-21	11-21	11-21	11-21	24-34	24-34	24-34	24-34	24-34	
Sample Interval (feet bls)	4/10/2012	5/9/2012	1/15/2013	4/17/2013	7/17/2013	10/9/2013	4/12/2012	5/9/2012	1/15/2013	4/17/2013	7/18/2013	
Sample Date	4/10/2012	5/9/2012	1/15/2013	4/17/2013	7/17/2013	10/9/2013	4/12/2012	5/9/2012	1/15/2013	4/17/2013	7/18/2013	
Total Metals (µg/L) (continued)												
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (µg/L)												
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

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

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

< Constituent not detected above noted laboratory detection limit.

* 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.

µg/L Micrograms per liter.

NA Not analyzed.

NE Not established.

ND Not detected.

PCBs Polychlorinated Biphenyls.

PAHs Polycyclic Aromatic Hydrocarbons.

VOCs Volatile Organic Compounds.

Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-11S (continued)		MW-12S				MP-13		
	24-34	3-13	3-13	3-13	3-13	3-13	44-48'	44-48'	
Sample Interval (feet bls)	10/4/2013	4/12/2012	5/9/2012	1/16/2013	4/17/2013	7/18/2013	10/4/2013	12/6/2012	1/19/2013
VOCs (µg/L)									
1,1,1,2-Tetrachloroethane	<0.25	<0.31	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
1,1,2-Trichloroethane	<0.28	<0.3	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
1,1-Dichloroethene	<0.31	<0.29	<0.31	<0.31	<0.31	<0.31	<0.31	0.92 J	1.1
1,2,4-Trimethylbenzene	<0.14	1.2	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
1,2-Dibromoethane	<0.36	<0.45	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
1,2-Dichlorobenzene	<0.27	<0.21	<0.27	0.79 J	<0.27	<0.27	<0.27	<0.27	<0.27
1,2-Dichloropropane	<0.2	<0.36	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
1,3,5-Trimethylbenzene	<0.18	<0.23	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
Benzene	<0.074	<0.12	<0.074	<0.074	<0.074	<0.074	<0.074	0.34 J	0.38 J
Bromoform	<0.28	<0.45	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Bromomethane	<0.31	<0.49	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31
Carbon tetrachloride	<0.26	<0.28	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26
Chloroform	<0.2	<0.25	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chloromethane	<0.18	<0.24	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
cis-1,2-Dichloroethene	<0.12	<0.22	<0.12	<0.12	<0.12	<0.12	<0.12	540	450
Dichlorodifluoromethane	<0.2	<0.26	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Ethylbenzene	<0.13	<0.14	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
Isopropylbenzene	<0.14	<0.21	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
Methyl tert-butyl ether	<0.24	<0.28	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24
Methylene Chloride	<0.68	<0.63	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68
Naphthalene	<0.16	<0.24	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
n-Butylbenzene	<0.13	<0.21	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
N-Propylbenzene	<0.13	<0.19	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
p-Isopropyltoluene	<0.17	<0.24	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
sec-Butylbenzene	<0.15	<0.19	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
Styrene	<0.1	<0.26	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
tert-Butylbenzene	<0.14	<0.24	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
Tetrachloroethene	<0.17	0.78 J	1.7	0.93 J	<0.17	1.3	1.5	640	760
Toluene	<0.11	0.64	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11
trans-1,2-Dichloroethene	<0.25	<0.27	<0.25	<0.25	<0.25	<0.25	<0.25	7.3	6.7
Trichloroethene	<0.19	<0.18	0.26 J	<0.19	<0.19	<0.19	<0.19	230	200
Vinyl chloride	<0.1	<0.13	<0.1	<0.1	<0.1	<0.1	<0.1	15	17
Xylenes, Total	<0.068	1.6	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-11S (continued)		MW-12S					MP-13	
	24-34	3-13	3-13	3-13	3-13	3-13	3-13	44-48'	44-48'
Sample Interval (feet bls)	10/4/2013	4/12/2012	5/9/2012	1/16/2013	4/17/2013	7/18/2013	10/4/2013	12/6/2012	1/19/2013
Sample Date	10/4/2013	4/12/2012	5/9/2012	1/16/2013	4/17/2013	7/18/2013	10/4/2013	12/6/2012	1/19/2013
PAHs (µg/L)									
1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	<1.1	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	<0.14	NA
Naphthalene	NA	NA	NA	NA	NA	NA	NA	<0.33	NA
Total PCBs (µg/L)									
Aroclor1016	NA	NA	NA	NA	NA	NA	NA	<0.16	NA
Aroclor1232	NA	NA	NA	NA	NA	NA	NA	<0.085	NA
Aroclor1242	NA	NA	NA	NA	NA	NA	NA	<0.12	NA
Total Detected PCBs	NA	NA	NA	NA	NA	NA	NA	ND	NA
Dissolved PCBs (µg/L)									
Aroclor1016	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (µg/L)									
Arsenic	NA	NA	NA	NA	NA	NA	NA	0.21 J	0.20 J
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	3.4 J	1.3 J
Iron	NA	NA	NA	NA	NA	NA	NA	1,300	360
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	340	290

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-11S (continued)			MW-12S				MP-13	
	24-34	3-13	3-13	3-13	3-13	3-13	3-13	44-48'	44-48'
Sample Interval (feet bls)	10/4/2013	4/12/2012	5/9/2012	1/16/2013	4/17/2013	7/18/2013	10/4/2013	12/6/2012	1/19/2013
Sample Date	10/4/2013	4/12/2012	5/9/2012	1/16/2013	4/17/2013	7/18/2013	10/4/2013	12/6/2012	1/19/2013
Total Metals (µg/L) (continued)									
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (µg/L)									
Arsenic	NA	NA	NA	NA	NA	NA	NA	0.16 J	0.19 J
Barium	NA	NA	NA	NA	NA	NA	NA	180	190
Cadmium	NA	NA	NA	NA	NA	NA	NA	<0.1	<0.1
Chromium	NA	NA	NA	NA	NA	NA	NA	<0.64	<0.64
Iron	NA	NA	NA	NA	NA	NA	NA	860	85 J
Lead	NA	NA	NA	NA	NA	NA	NA	0.23 J	0.39 J
Manganese	NA	NA	NA	NA	NA	NA	NA	360	280
Mercury	NA	NA	NA	NA	NA	NA	NA	<0.071	<0.071
Selenium	NA	NA	NA	NA	NA	NA	NA	0.27 J	0.29 J
Silver	NA	NA	NA	NA	NA	NA	NA	<0.069	<0.069

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

- 100** Concentration exceeds the NR 140 Wis. adm. code Preventive Action Limit.
- 100** Concentration exceeds the NR 140 Wis. adm. code Enforcement Standard.
- < Constituent not detected above noted laboratory detection limit.
- * 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.
- µg/L Micrograms per liter.
- NA Not analyzed.
- NE Not established.
- ND Not detected.
- PCBs Polychlorinated Biphenyls.
- PAHs Polycyclic Aromatic Hydrocarbons.
- VOCs Volatile Organic Compounds.

Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MP-13 (continued)										
	44-48'	44-48'	44-48'	44-48'	67-71'	67-71'	67-71'	67-71'	67-71'	67-71'	81-85'
Sample Interval (feet bls)	2/21/2013	4/17/2013	7/22/2013	10/7/2013	12/6/2012	1/19/2013	2/21/2013	4/17/2013	7/22/2013	10/7/2013	12/6/2012
Sample Date	2/21/2013	4/17/2013	7/22/2013	10/7/2013	12/6/2012	1/19/2013	2/21/2013	4/17/2013	7/22/2013	10/7/2013	12/6/2012
VOCs (µg/L)											
1,1,1,2-Tetrachloroethane	<0.25	<0.5	<0.25	<0.25	<1.3	<1.3	<1.3	<2.5	<1.3	<1.3	<2.5
1,1,2-Trichloroethane	<0.28	<0.56	<0.28	<0.28	<1.4	<1.4	<1.4	<2.8	<1.4	<1.4	<2.8
1,1-Dichloroethene	0.88 J	<0.62	0.85 J	1.1	2.8 J	3.1 J	<1.6	<3.1	<1.6	<1.6	<3.1
1,2,4-Trimethylbenzene	<0.14	<0.28	<0.14	<0.14	<0.7	<0.7	<0.7	<1.4	<0.7	<0.7	<1.4
1,2-Dibromoethane	<0.36	<0.72	<0.36	<0.36	<1.8	<1.8	<1.8	<3.6	<1.8	<1.8	<3.6
1,2-Dichlorobenzene	<0.27	<0.54	<0.27	<0.27	<1.4	<1.4	<1.4	<2.7	<1.4	<1.4	<2.7
1,2-Dichloropropane	<0.2	<0.4	<0.2	<0.2	<1	<1	<1	<2	<1	<1	<2
1,3,5-Trimethylbenzene	<0.18	<0.36	<0.18	<0.18	<0.9	<0.9	<0.9	<1.8	<0.9	<0.9	<1.8
Benzene	0.32 J	0.38 J	0.34 J	0.46 J	<0.37	1.1 J	<0.37	<0.74	<0.37	<0.37	<0.74
Bromoform	<0.28	<0.56	<0.28	<0.28	<1.4	<1.4	<1.4	<2.8	<1.4	<1.4	<2.8
Bromomethane	<0.31	<0.62	<0.31	<0.31	<1.6	<1.6	<1.6	<3.1	<1.6	<1.6	<3.1
Carbon tetrachloride	<0.26	<0.52	<0.26	<0.26	<1.3	<1.3	<1.3	<2.6	<1.3	<1.3	<2.6
Chloroform	<0.2	<0.4	<0.2	<0.2	<1	<1	<1	<2	<1	<1	<2
Chloromethane	<0.18	<0.36	<0.18	<0.18	<0.9	<0.9	<0.9	<1.8	<0.9	<0.9	<1.8
cis-1,2-Dichloroethene	460	460	430	480	3,500	3,100	2,900	3,200	2,300	1,500	1,900
Dichlorodifluoromethane	<0.2	<0.4	<0.2	<0.2	<1	<1	<1	<2	<1	<1	<2
Ethylbenzene	<0.13	<0.26	<0.13	<0.13	<0.65	<0.65	<0.65	<1.3	<0.65	<0.65	<1.3
Isopropylbenzene	<0.14	<0.28	<0.14	<0.14	<0.7	<0.7	<0.7	<1.4	<0.7	<0.7	<1.4
Methyl tert-butyl ether	<0.24	<0.48	<0.24	<0.24	<1.2	<1.2	<1.2	<2.4	<1.2	<1.2	<2.4
Methylene Chloride	<0.68	<1.4	<0.68	<0.68	<3.4	<3.4	<3.4	<6.8	<3.4	<3.4	<6.8
Naphthalene	<0.16	<0.32	<0.16	<0.16	<0.8	<0.8	<0.8	<1.6	<0.8	<0.8	<1.6
n-Butylbenzene	<0.13	<0.26	<0.13	<0.13	<0.65	<0.65	<0.65	<1.3	<0.65	<0.65	<1.3
N-Propylbenzene	<0.13	<0.26	<0.13	<0.13	<0.65	<0.65	<0.65	<1.3	<0.65	<0.65	<1.3
p-Isopropyltoluene	<0.17	<0.34	<0.17	<0.17	<0.85	<0.85	<0.85	<1.7	<0.85	<0.85	<1.7
sec-Butylbenzene	<0.15	<0.3	<0.15	<0.15	<0.75	<0.75	<0.75	<1.5	<0.75	<0.75	<1.5
Styrene	<0.1	<0.2	<0.1	<0.1	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<1
tert-Butylbenzene	<0.14	<0.28	<0.14	<0.14	<0.7	<0.7	<0.7	<1.4	<0.7	<0.7	<1.4
Tetrachloroethene	630	680	720	800	3,800	4,300	2,900	3,800	2,800	2,000	5,600
Toluene	<0.11	<0.22	<0.11	<0.11	<0.55	<0.55	<0.55	<1.1	<0.55	<0.55	<1.1
trans-1,2-Dichloroethene	6.1	6.9	6.9	8.4	60	56	48	52	37	27	29
Trichloroethene	220	230	220	290	1,100	1,000	800	940	630	510	940
Vinyl chloride	17	13	13	17	150	180	140	130	110	92	64
Xylenes, Total	<0.068	<0.14	<0.068	<0.068	<0.34	<0.34	<0.34	<0.68	<0.34	<0.34	<0.68

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MP-13 (continued)										
	44-48'	44-48'	44-48'	44-48'	67-71'	67-71'	67-71'	67-71'	67-71'	67-71'	81-85'
Sample Interval (feet bls)	2/21/2013	4/17/2013	7/22/2013	10/7/2013	12/6/2012	1/19/2013	2/21/2013	4/17/2013	7/22/2013	10/7/2013	12/6/2012
PAHs (µg/L)											
1-Methylnaphthalene	NA	NA	NA	NA	<1.1	NA	NA	NA	NA	NA	<1.1
2-Methylnaphthalene	NA	NA	NA	NA	<0.14	NA	NA	NA	NA	NA	<0.14
Naphthalene	NA	NA	NA	NA	<0.32	NA	NA	NA	NA	NA	<0.32
Total PCBs (µg/L)											
Aroclor1016	NA	NA	NA	NA	<0.16	NA	NA	NA	NA	NA	<0.15
Aroclor1232	NA	NA	NA	NA	<0.085	NA	NA	NA	NA	NA	<0.083
Aroclor1242	NA	NA	NA	NA	<0.12	NA	NA	NA	NA	NA	<0.12
Total Detected PCBs	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	ND
Dissolved PCBs (µg/L)											
Aroclor1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (µg/L)											
Arsenic	0.20 J	NA	NA	NA	0.16 J	0.17 J	<0.15	NA	NA	NA	0.17 J
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	0.85 J	NA	NA	NA	6.8	2.1 J	0.86 J	NA	NA	NA	2.0 J
Iron	390	NA	NA	NA	61 J B	<37	<37	NA	NA	NA	62 J B
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	270	NA	NA	NA	10	3.3	2.6	NA	NA	NA	14

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MP-13 (continued)										
	44-48'	44-48'	44-48'	44-48'	67-71'	67-71'	67-71'	67-71'	67-71'	67-71'	81-85'
Sample Interval (feet bls)	2/21/2013	4/17/2013	7/22/2013	10/7/2013	12/6/2012	1/19/2013	2/21/2013	4/17/2013	7/22/2013	10/7/2013	12/6/2012
Sample Date	2/21/2013	4/17/2013	7/22/2013	10/7/2013	12/6/2012	1/19/2013	2/21/2013	4/17/2013	7/22/2013	10/7/2013	12/6/2012
Total Metals (µg/L) (continued)											
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (µg/L)											
Arsenic	0.16 J	NA	NA	NA	0.20 J	0.15 J	0.16 J	NA	NA	NA	<0.15
Barium	190	NA	NA	NA	26 B	24	25	NA	NA	NA	24 B
Cadmium	0.12 J	NA	NA	NA	<0.1	<0.1	<0.1	NA	NA	NA	<0.1
Chromium	<0.64	NA	NA	NA	<0.64	<0.64	<0.64	NA	NA	NA	<0.64
Iron	78 J	NA	NA	NA	43 J B	<37	<37	NA	NA	NA	43 J B
Lead	0.43 J	NA	NA	NA	<0.16	<0.16	<0.16	NA	NA	NA	<0.16
Manganese	270	NA	NA	NA	10	3.0	2.5	NA	NA	NA	13
Mercury	<0.071	NA	NA	NA	<0.071	<0.071	<0.071	NA	NA	NA	<0.071
Selenium	0.37 J	NA	NA	NA	<0.25	0.34 J	0.34 J	NA	NA	NA	<0.25
Silver	<0.069	NA	NA	NA	<0.069	<0.069	<0.069	NA	NA	NA	<0.069

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

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

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

< Constituent not detected above noted laboratory detection limit.

* 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.

µg/L Micrograms per liter.

NA Not analyzed.

NE Not established.

ND Not detected.

PCBs Polychlorinated Biphenyls.

PAHs Polycyclic Aromatic Hydrocarbons.

VOCs Volatile Organic Compounds.

Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MP-13 (continued)														
	81-85'		81-85'		81-85'		81-85'		81-85'		102-106'	102-106'	102-106'	102-106'	102-106'
Sample Interval (feet bls)	81-85'	81-85'	81-85'	81-85'	81-85'	81-85'	81-85'	81-85'	81-85'	81-85'	102-106'	102-106'	102-106'	102-106'	102-106'
Sample Date	1/19/2013	2/21/2013	4/17/2013	7/22/2013	10/7/2013	12/4/2012	1/18/2013	2/21/2013	4/17/2013	7/22/2013					
VOCs (µg/L)															
1,1,1,2-Tetrachloroethane	4.8 J	4.5 J	<5	<2.5	<1.3	<1.3	<0.5	<0.5	<1.3	<1.3					
1,1,2-Trichloroethane	<2.8	<1.4	<5.6	<2.8	<1.4	<1.4	<0.56	<0.56	<1.4	<1.4					
1,1-Dichloroethene	<3.1	4.2 J	<6.2	<3.1	<1.6	<1.6	<0.62	<0.62	<1.6	<1.6					
1,2,4-Trimethylbenzene	<1.4	<0.7	<2.8	<1.4	<0.7	<0.7	<0.28	<0.28	<0.7	<0.7					
1,2-Dibromoethane	<3.6	<1.8	<7.2	<3.6	<1.8	<1.8	<0.72	<0.72	<1.8	<1.8					
1,2-Dichlorobenzene	<2.7	<1.4	<5.4	<2.7	<1.4	<1.4	<0.54	<0.54	<1.4	<1.4					
1,2-Dichloropropane	<2	<1	<4	<2	<1	<1	<0.4	<0.4	<1	<1					
1,3,5-Trimethylbenzene	<1.8	<0.9	<3.6	<1.8	<0.9	<0.9	<0.36	<0.36	<0.9	<0.9					
Benzene	<0.74	<0.37	<1.5	<0.74	<0.37	<0.37	<0.15	<0.15	<0.37	<0.37					
Bromoform	<2.8	<1.4	<5.6	<2.8	<1.4	<1.4	<0.56	<0.56	<1.4	<1.4					
Bromomethane	<3.1	<1.6	<6.2	<3.1	<1.6	<1.6	<0.62	<0.62	<1.6	<1.6					
Carbon tetrachloride	<2.6	<1.3	<5.2	<2.6	<1.3	<1.3	<0.52	<0.52	<1.3	<1.3					
Chloroform	<2	<1	<4	<2	<1	<1	<0.4	<0.4	<1	<1					
Chloromethane	<1.8	<0.9	<3.6	<1.8	<0.9	<0.9	<0.36	<0.36	<0.9	<0.9					
cis-1,2-Dichloroethene	1,800	2,100	2,700	1,700	1,200	1,100	690	520	720	660					
Dichlorodifluoromethane	<2	<1	<4	<2	<1	<1	<0.4	<0.4	<1	<1					
Ethylbenzene	<1.3	<0.65	<2.6	<1.3	<0.65	<0.65	<0.26	<0.26	<0.65	<0.65					
Isopropylbenzene	<1.4	<0.7	<2.8	<1.4	<0.7	<0.7	<0.28	<0.28	<0.7	<0.7					
Methyl tert-butyl ether	<2.4	<1.2	<4.8	<2.4	<1.2	<1.2	<0.48	<0.48	<1.2	<1.2					
Methylene Chloride	<6.8	<3.4	<14	<6.8	<3.4	<3.4	<1.4	<1.4	<3.4	<3.4					
Naphthalene	<1.6	<0.8	<3.2	<1.6	<0.8	<0.8	<0.32	<0.32	<0.8	<0.8					
n-Butylbenzene	<1.3	<0.65	<2.6	<1.3	<0.65	<0.65	<0.26	<0.26	<0.65	<0.65					
N-Propylbenzene	<1.3	<0.65	<2.6	<1.3	<0.65	<0.65	<0.26	<0.26	<0.65	<0.65					
p-Isopropyltoluene	<1.7	<0.85	<3.4	<1.7	<0.85	<0.85	<0.34	<0.34	<0.85	<0.85					
sec-Butylbenzene	<1.5	<0.75	<3	<1.5	<0.75	<0.75	<0.3	<0.3	<0.75	<0.75					
Styrene	<1	<0.5	<2	<1	<0.5	<0.5	<0.2	<0.2	<0.5	<0.5					
tert-Butylbenzene	<1.4	<0.7	<2.8	<1.4	<0.7	<0.7	<0.28	<0.28	<0.7	<0.7					
Tetrachloroethene	6,800	7,000	7,900	6,800	5,400	1,800	1,100	670	1,400	1,500					
Toluene	<1.1	<0.55	<2.2	<1.1	<0.55	<0.55	<0.22	<0.22	<0.55	<0.55					
trans-1,2-Dichloroethene	38	38	48	29	19	15	10	5	7	6					
Trichloroethene	1,100	1,100	1,200	900	660	440	330	270	500	450					
Vinyl chloride	120	110	99	75	48	33	23	13	20	19					
Xylenes, Total	<0.68	<0.34	<1.4	<0.68	<0.34	<0.34	<0.14	<0.14	<0.34	<0.34					

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MP-13 (continued)									
	81-85'	81-85'	81-85'	81-85'	81-85'	102-106'	102-106'	102-106'	102-106'	102-106'
Sample Interval (feet bls)	1/19/2013	2/21/2013	4/17/2013	7/22/2013	10/7/2013	12/4/2012	1/18/2013	2/21/2013	4/17/2013	7/22/2013
Sample Date	1/19/2013	2/21/2013	4/17/2013	7/22/2013	10/7/2013	12/4/2012	1/18/2013	2/21/2013	4/17/2013	7/22/2013
PAHs (µg/L)										
1-Methylnaphthalene	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	<0.13	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA	NA	<0.31	NA	NA	NA	NA
Total PCBs (µg/L)										
Aroclor1016	NA	NA	NA	NA	NA	<0.15	NA	NA	NA	NA
Aroclor1232	NA	NA	NA	NA	NA	<0.083	NA	NA	NA	NA
Aroclor1242	NA	NA	NA	NA	NA	<0.12	NA	NA	NA	NA
Total Detected PCBs	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA
Dissolved PCBs (µg/L)										
Aroclor1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (µg/L)										
Arsenic	<0.15	<0.15	NA	NA	NA	0.24 J	0.32 J	0.17 J	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	0.79 J	<0.64	NA	NA	NA	4.2 J	2.6 J	1.0 J	NA	NA
Iron	<37	<37	NA	NA	NA	46 J B	<37	<37	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	6.1	3.9	NA	NA	NA	83	100	68 V	NA	NA

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MP-13 (continued)									
	81-85'		81-85'		81-85'		102-106'		102-106'	
Sample Interval (feet bls)	1/19/2013	2/21/2013	4/17/2013	7/22/2013	10/7/2013	12/4/2012	1/18/2013	2/21/2013	4/17/2013	7/22/2013
Sample Date	1/19/2013	2/21/2013	4/17/2013	7/22/2013	10/7/2013	12/4/2012	1/18/2013	2/21/2013	4/17/2013	7/22/2013
Total Metals (µg/L) (continued)										
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (µg/L)										
Arsenic	<0.15	<0.15	NA	NA	NA	0.21 J	0.20 J	0.20 J	NA	NA
Barium	23	24	NA	NA	NA	65 B	45	38	NA	NA
Cadmium	<0.1	<0.1	NA	NA	NA	0.17 J	<0.1	<0.1	NA	NA
Chromium	<0.64	<0.64	NA	NA	NA	<0.64	<0.64	<0.64	NA	NA
Iron	<37	<37	NA	NA	NA	<37	<37	<37	NA	NA
Lead	<0.16	<0.16	NA	NA	NA	0.20 J	<0.16	1	NA	NA
Manganese	6.3	4.8	NA	NA	NA	86	97	68	NA	NA
Mercury	<0.071	<0.071	NA	NA	NA	<0.071	<0.071	<0.071	NA	NA
Selenium	<0.25	<0.25	NA	NA	NA	0.54 J	0.36 J	0.29 J	NA	NA
Silver	<0.069	<0.069	NA	NA	NA	<0.069	<0.069	<0.069	NA	NA

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

- 100** Concentration exceeds the NR 140 Wis. adm. code Preventive Action Limit.
- 100** Concentration exceeds the NR 140 Wis. adm. code Enforcement Standard.
- < Constituent not detected above noted laboratory detection limit.
- * 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.
- µg/L Micrograms per liter.
- NA Not analyzed.
- NE Not established.
- ND Not detected.
- PCBs Polychlorinated Biphenyls.
- PAHs Polycyclic Aromatic Hydrocarbons.
- VOCs Volatile Organic Compounds.

Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MP-13 (continued)									
	102-106'	121-125'	121-125'	121-125'	121-125'	121-125'	121-125'	135-139'	135-139'	135-139'
Sample Interval (feet bls)	10/7/2013	12/4/2012	1/18/2013	2/20/2013	4/17/2013	7/22/2013	10/7/2013	12/4/2012	1/17/2013	2/20/2013
Sample Date	10/7/2013	12/4/2012	1/18/2013	2/20/2013	4/17/2013	7/22/2013	10/7/2013	12/4/2012	1/17/2013	2/20/2013
VOCs (µg/L)										
1,1,1,2-Tetrachloroethane	<1.3	<0.5	<1.3	NA	<5	<2.5	1.1	<0.5	<1.3	NA
1,1,2-Trichloroethane	<1.4	<0.56	<1.4	NA	<5.6	<2.8	<0.28	<0.56	<1.4	NA
1,1-Dichloroethene	<1.6	<0.62	<1.6	NA	<6.2	<3.1	<0.31	1.5 J	<1.6	NA
1,2,4-Trimethylbenzene	<0.7	<0.28	<0.7	NA	<2.8	<1.4	<0.14	<0.28	<0.7	NA
1,2-Dibromoethane	<1.8	<0.72	<1.8	NA	<7.2	<3.6	<0.36	<0.72	<1.8	NA
1,2-Dichlorobenzene	<1.4	<0.54	<1.4	NA	<5.4	<2.7	<0.27	<0.54	<1.4	NA
1,2-Dichloropropane	<1	<0.4	<1	NA	<4	<2	<0.2	<0.4	<1	NA
1,3,5-Trimethylbenzene	<0.9	<0.36	<0.9	NA	<3.6	<1.8	<0.18	<0.36	<0.9	NA
Benzene	<0.37	<0.15	<0.37	NA	<1.5	<0.74	0.29 J	0.41 J	1.1 J	NA
Bromoform	<1.4	<0.56	<1.4	NA	<5.6	<2.8	<0.28	<0.56	<1.4	NA
Bromomethane	<1.6	<0.62	<1.6	NA	<6.2	<3.1	<0.31	<0.62	<1.6	NA
Carbon tetrachloride	<1.3	<0.52	<1.3	NA	<5.2	<2.6	<0.26	<0.52	<1.3	NA
Chloroform	<1	<0.4	<1	NA	<4	<2	<0.2	<0.4	<1	NA
Chloromethane	<0.9	<0.36	<0.9	NA	<3.6	<1.8	<0.18	<0.36	<0.9	NA
cis-1,2-Dichloroethene	600	910	1,000	NA	930	760	650	1,100	910	NA
Dichlorodifluoromethane	<1	<0.4	<1	NA	<4	<2	<0.2	<0.4	<1	NA
Ethylbenzene	<0.65	<0.26	<0.65	NA	<2.6	<1.3	<0.13	<0.26	<0.65	NA
Isopropylbenzene	<0.7	<0.28	<0.7	NA	<2.8	<1.4	<0.14	<0.28	<0.7	NA
Methyl tert-butyl ether	<1.2	<0.48	<1.2	NA	<4.8	<2.4	<0.24	<0.48	<1.2	NA
Methylene Chloride	<3.4	<1.4	<3.4	NA	<14	<6.8	<0.68	<1.4	<3.4	NA
Naphthalene	<0.8	<0.32	<0.8	NA	<3.2	<1.6	<0.16	<0.32	<0.8	NA
n-Butylbenzene	<0.65	<0.26	<0.65	NA	<2.6	<1.3	<0.13	<0.26	<0.65	NA
N-Propylbenzene	<0.65	<0.26	<0.65	NA	<2.6	<1.3	<0.13	<0.26	<0.65	NA
p-Isopropyltoluene	<0.85	<0.34	<0.85	NA	<3.4	<1.7	<0.17	<0.34	<0.85	NA
sec-Butylbenzene	<0.75	<0.3	<0.75	NA	<3	<1.5	<0.15	<0.3	<0.75	NA
Styrene	<0.5	<0.2	<0.5	NA	<2	<1	<0.1	<0.2	<0.5	NA
tert-Butylbenzene	<0.7	<0.28	<0.7	NA	<2.8	<1.4	<0.14	<0.28	<0.7	NA
Tetrachloroethene	1,900	1,500	2,600	NA	7,000	6,300	6,500	1,900	2,300	NA
Toluene	<0.55	<0.22	<0.55	NA	<2.2	<1.1	<0.11	<0.22	<0.55	NA
trans-1,2-Dichloroethene	7	12	17	NA	12 J	12	9.7	17	15	NA
Trichloroethene	490	340	460	NA	600	510	550	450	430	NA
Vinyl chloride	20	36	54	NA	13	9.3	8.1	50	42	NA
Xylenes, Total	<0.34	<0.14	<0.34	NA	<1.4	<0.68	<0.068	<0.14	<0.34	NA

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MP-13 (continued)									
Sample Interval (feet bls)	102-106'	121-125'	121-125'	121-125'	121-125'	121-125'	121-125'	135-139'	135-139'	135-139'
Sample Date	10/7/2013	12/4/2012	1/18/2013	2/20/2013	4/17/2013	7/22/2013	10/7/2013	12/4/2012	1/17/2013	2/20/2013
PAHs (µg/L)										
1-Methylnaphthalene	NA	<1.1	NA	NA	NA	NA	NA	<1	NA	NA
2-Methylnaphthalene	NA	<0.14	NA	NA	NA	NA	NA	<0.13	NA	NA
Naphthalene	NA	<0.32	NA	NA	NA	NA	NA	<0.3	NA	NA
Total PCBs (µg/L)										
Aroclor1016	NA	<0.15	NA	NA	NA	NA	NA	<0.15	NA	NA
Aroclor1232	NA	<0.084	NA	NA	NA	NA	NA	<0.083	NA	NA
Aroclor1242	NA	<0.12	NA	NA	NA	NA	NA	<0.12	NA	NA
Total Detected PCBs	NA	ND	NA	NA	NA	NA	NA	ND	NA	NA
Dissolved PCBs (µg/L)										
Aroclor1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (µg/L)										
Arsenic	NA	0.18 J	0.29 J	0.17 J	NA	NA	NA	0.15 J	<0.15	<0.15
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	12	1.4 J	1.2 J	NA	NA	NA	9.6	34	<0.64
Iron	NA	230 B	<37	<37	NA	NA	NA	86 J B	150	<37
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	63	51	41 B	NA	NA	NA	42	19	9.7 B

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MP-13 (continued)									
Sample Interval (feet bls)	102-106'	121-125'	121-125'	121-125'	121-125'	121-125'	121-125'	135-139'	135-139'	135-139'
Sample Date	10/7/2013	12/4/2012	1/18/2013	2/20/2013	4/17/2013	7/22/2013	10/7/2013	12/4/2012	1/17/2013	2/20/2013
Total Metals (µg/L) (continued)										
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (µg/L)										
Arsenic	NA	0.38 J	0.27 J	0.19 J	NA	NA	NA	<0.15	<0.15	<0.15
Barium	NA	72 B	57	52	NA	NA	NA	66 B	42	34
Cadmium	NA	<0.1	<0.1	<0.1	NA	NA	NA	<0.1	<0.1	<0.1
Chromium	NA	<0.64	<0.64	<0.64	NA	NA	NA	<0.64	<0.64	<0.64
Iron	NA	120 B	<37	<37	NA	NA	NA	43 J B	<37	<37
Lead	NA	0.23 J	0.30 J	0.29 J B	NA	NA	NA	0.58	0.86	0.63 B
Manganese	NA	67	54	41 B	NA	NA	NA	43	17	9.5 B
Mercury	NA	<0.071	<0.071	<0.071	NA	NA	NA	<0.071	NA	<0.071
Selenium	NA	0.56 J	0.43 J	0.41 J	NA	NA	NA	0.55 J	0.34 J	<0.25
Silver	NA	<0.069	<0.069	<0.069	NA	NA	NA	<0.069	<0.069	<0.069

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

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

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

< Constituent not detected above noted laboratory detection limit.

* 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.

µg/L Micrograms per liter.

NA Not analyzed.

NE Not established.

ND Not detected.

PCBs Polychlorinated Biphenyls.

PAHs Polycyclic Aromatic Hydrocarbons.

VOCs Volatile Organic Compounds.

Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MP-13 (continued)									MP-14
	135-139'	135-139'	135-139'	163-167'	163-167'	163-167'	163-167'	163-167'	163-167'	70-75'
Sample Interval (feet bls)	4/17/2013	7/22/2013	10/7/2013	12/4/2012	1/16/2013	2/20/2013	4/17/2013	7/22/2013	10/7/2013	1/21/2013
Sample Date	4/17/2013	7/22/2013	10/7/2013	12/4/2012	1/16/2013	2/20/2013	4/17/2013	7/22/2013	10/7/2013	1/21/2013
VOCs (µg/L)										
1,1,1,2-Tetrachloroethane	<2.5	<2.5	<1.3	<1.3	<0.25	NA	<0.5	<0.25	<0.25	<0.25
1,1,2-Trichloroethane	<2.8	<2.8	<1.4	<1.4	<0.28	NA	<0.56	<0.28	<0.28	<0.28
1,1-Dichloroethene	<3.1	<3.1	<1.6	<1.6	0.97 J	NA	<0.62	<0.31	<0.31	<0.31
1,2,4-Trimethylbenzene	<1.4	<1.4	<0.7	<0.7	<0.14	NA	<0.28	<0.14	<0.14	<0.14
1,2-Dibromoethane	<3.6	<3.6	<1.8	<1.8	<0.36	NA	<0.72	<0.36	<0.36	<0.36
1,2-Dichlorobenzene	<2.7	<2.7	<1.4	<1.4	<0.27	NA	<0.54	<0.27	<0.27	<0.27
1,2-Dichloropropane	<2	<2	<1	<1	<0.2	NA	<0.4	<0.2	<0.2	<0.2
1,3,5-Trimethylbenzene	<1.8	<1.8	<0.9	<0.9	<0.18	NA	<0.36	<0.18	<0.18	<0.18
Benzene	<0.74	<0.74	<0.37	<0.37	<0.074	NA	<0.15	<0.074	<0.074	<0.074
Bromoform	<2.8	<2.8	<1.4	<1.4	<0.28	NA	<0.56	<0.28	<0.28	<0.28
Bromomethane	<3.1	<3.1	<1.6	<1.6	<0.31	NA	<0.62	<0.31	<0.31	<0.31
Carbon tetrachloride	<2.6	<2.6	<1.3	<1.3	<0.26	NA	<0.52	<0.26	<0.26	<0.26
Chloroform	<2	<2	<1	<1	<0.2	NA	<0.4	<0.2	<0.2	<0.2
Chloromethane	<1.8	<1.8	<0.9	<0.9	<0.18	NA	<0.36	<0.18	<0.18	<0.18
cis-1,2-Dichloroethene	540	420	380	970	730	NA	460	200	170	<0.12
Dichlorodifluoromethane	<2	<2	<1	<1	<0.2	NA	<0.4	<0.2	<0.2	<0.2
Ethylbenzene	<1.3	<1.3	<0.65	<0.65	<0.13	NA	<0.26	<0.13	<0.13	<0.13
Isopropylbenzene	<1.4	<1.4	<0.7	<0.7	<0.14	NA	<0.28	<0.14	<0.14	<0.14
Methyl tert-butyl ether	<2.4	<2.4	<1.2	<1.2	<0.24	NA	<0.48	<0.24	<0.24	<0.24
Methylene Chloride	<6.8	<6.8	<3.4	<3.4	<0.68	NA	<1.4	<0.68	<0.68	<0.68
Naphthalene	<1.6	<1.6	<0.8	<0.8	<0.16	NA	<0.32	<0.16	<0.16	<0.16
n-Butylbenzene	<1.3	<1.3	<0.65	<0.65	<0.13	NA	<0.26	<0.13	<0.13	<0.13
N-Propylbenzene	<1.3	<1.3	<0.65	<0.65	<0.13	NA	<0.26	<0.13	<0.13	<0.13
p-Isopropyltoluene	<1.7	<1.7	<0.85	<0.85	<0.17	NA	<0.34	<0.17	<0.17	<0.17
sec-Butylbenzene	<1.5	<1.5	<0.75	<0.75	<0.15	NA	<0.3	<0.15	<0.15	<0.15
Styrene	<1	<1	<0.5	<0.5	<0.1	NA	<0.2	<0.1	<0.1	<0.1
tert-Butylbenzene	<1.4	<1.4	<0.7	<0.7	<0.14	NA	<0.28	<0.14	<0.14	<0.14
Tetrachloroethene	3,800	4,200	6,500	1,400	930	NA	840	510	680	0.71 J
Toluene	<1.1	<1.1	<0.55	<0.55	<0.11	NA	<0.22	<0.11	<0.11	<0.11
trans-1,2-Dichloroethene	8.5 J	5.4 J	<1.3	15	13	NA	8	3	3	<0.25
Trichloroethene	310	260	310	370	250	NA	200	92	96	<0.19
Vinyl chloride	11	8.1	5.8	41	27	NA	6.8	0.74	0.72	<0.1
Xylenes, Total	<0.68	<0.68	<0.34	<0.34	<0.068	NA	<0.14	<0.068	<0.068	<0.068

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MP-13 (continued)									MP-14
	135-139'	135-139'	135-139'	163-167'	163-167'	163-167'	163-167'	163-167'	163-167'	70-75'
Sample Interval (feet bls)	4/17/2013	7/22/2013	10/7/2013	12/4/2012	1/16/2013	2/20/2013	4/17/2013	7/22/2013	10/7/2013	1/21/2013
PAHs (µg/L)										
1-Methylnaphthalene	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	<0.13	NA	NA	NA	NA	NA	NA
Naphthalene	NA	NA	NA	<0.3	NA	NA	NA	NA	NA	NA
Total PCBs (µg/L)										
Aroclor1016	NA	NA	NA	<0.15	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	NA	<0.083	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	NA	<0.12	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA
Dissolved PCBs (µg/L)										
Aroclor1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (µg/L)										
Arsenic	NA	NA	NA	0.15 J	<0.15	<0.15	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	<0.64	1.2 J	<0.64	NA	NA	NA	NA
Iron	NA	NA	NA	200 B	<37	<37	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	100	66	56 B	NA	NA	NA	NA

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MP-13 (continued)									MP-14
	135-139'	135-139'	135-139'	163-167'	163-167'	163-167'	163-167'	163-167'	163-167'	70-75'
Sample Interval (feet bls)	4/17/2013	7/22/2013	10/7/2013	12/4/2012	1/16/2013	2/20/2013	4/17/2013	7/22/2013	10/7/2013	1/21/2013
Sample Date	4/17/2013	7/22/2013	10/7/2013	12/4/2012	1/16/2013	2/20/2013	4/17/2013	7/22/2013	10/7/2013	1/21/2013
Total Metals (µg/L) (continued)										
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (µg/L)										
Arsenic	NA	NA	NA	<0.15	<0.15	<0.15	NA	NA	NA	NA
Barium	NA	NA	NA	70 B	45	40	NA	NA	NA	NA
Cadmium	NA	NA	NA	<0.1	<0.1	<0.1	NA	NA	NA	NA
Chromium	NA	NA	NA	<0.64	<0.64	<0.64	NA	NA	NA	NA
Iron	NA	NA	NA	52 J B	49 J B	<37	NA	NA	NA	NA
Lead	NA	NA	NA	<0.16	<0.16	0.30 J B	NA	NA	NA	NA
Manganese	NA	NA	NA	100	66	57 B	NA	NA	NA	NA
Mercury	NA	NA	NA	<0.071	<0.071	<0.071	NA	NA	NA	NA
Selenium	NA	NA	NA	0.61 J	0.38 J	0.35 J	NA	NA	NA	NA
Silver	NA	NA	NA	<0.069	<0.069	<0.069	NA	NA	NA	NA

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

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

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

< Constituent not detected above noted laboratory detection limit.

* 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.

µg/L Micrograms per liter.

NA Not analyzed.

NE Not established.

ND Not detected.

PCBs Polychlorinated Biphenyls.

PAHs Polycyclic Aromatic Hydrocarbons.

VOCs Volatile Organic Compounds.

Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MP-14										
	70-75'	70-75'	70-75'	70-75'	100-105'	100-105'	100-105'	100-105'	100-105'	135-140'	135-140'
Sample Interval (feet bls)	4/16/2013	7/16/2013	7/22/2013	10/8/2013	1/21/2013	4/16/2013	7/16/2013	7/22/2013	10/8/2013	1/21/2013	4/16/2013
Sample Date	4/16/2013	7/16/2013	7/22/2013	10/8/2013	1/21/2013	4/16/2013	7/16/2013	7/22/2013	10/8/2013	1/21/2013	4/16/2013
VOCs (µg/L)											
1,1,1,2-Tetrachloroethane	<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	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
1,1-Dichloroethene	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31
1,2,4-Trimethylbenzene	<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	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
1,2-Dichlorobenzene	<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	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
1,3,5-Trimethylbenzene	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
Benzene	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074
Bromoform	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Bromomethane	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31
Carbon tetrachloride	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26
Chloroform	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chloromethane	<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	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	17
Dichlorodifluoromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.72 J	<0.2	<0.2	<0.2
Ethylbenzene	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
Isopropylbenzene	<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	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24
Methylene Chloride	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68
Naphthalene	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
n-Butylbenzene	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
N-Propylbenzene	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
p-Isopropyltoluene	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
sec-Butylbenzene	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
Styrene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
tert-Butylbenzene	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
Tetrachloroethene	<0.17	<0.17	<0.17	<0.17	1.5	<0.17	<0.17	<0.17	1.7	1.7	430
Toluene	<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	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
Trichloroethene	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	0.24 J	31
Vinyl chloride	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Xylenes, Total	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MP-14										
	70-75'	70-75'	70-75'	70-75'	100-105'	100-105'	100-105'	100-105'	100-105'	135-140'	135-140'
Sample Interval (feet bls)	4/16/2013	7/16/2013	7/22/2013	10/8/2013	1/21/2013	4/16/2013	7/16/2013	7/22/2013	10/8/2013	1/21/2013	4/16/2013
Sample Date	4/16/2013	7/16/2013	7/22/2013	10/8/2013	1/21/2013	4/16/2013	7/16/2013	7/22/2013	10/8/2013	1/21/2013	4/16/2013
PAHs (µg/L)											
1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs (µg/L)											
Aroclor1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs (µg/L)											
Aroclor1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (µg/L)											
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MP-14										
	70-75'	70-75'	70-75'	70-75'	100-105'	100-105'	100-105'	100-105'	100-105'	135-140'	135-140'
Sample Interval (feet bls)	70-75'	70-75'	70-75'	70-75'	100-105'	100-105'	100-105'	100-105'	100-105'	135-140'	135-140'
Sample Date	4/16/2013	7/16/2013	7/22/2013	10/8/2013	1/21/2013	4/16/2013	7/16/2013	7/22/2013	10/8/2013	1/21/2013	4/16/2013
Total Metals (µg/L) (continued)											
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (µg/L)											
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

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

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

< Constituent not detected above noted laboratory detection limit.

* 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.

µg/L Micrograms per liter.

NA Not analyzed.

NE Not established.

ND Not detected.

PCBs Polychlorinated Biphenyls.

PAHs Polycyclic Aromatic Hydrocarbons.

VOCs Volatile Organic Compounds.

Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MP-14 (continued)									MP-15		
	135-140'	135-140'	135-140'	170 - 178'	170-178'	170-178'	170-178'	170-178'	170-178'	88-92'	88-92'	88-92'
Sample Interval (feet bls)	7/16/2013	7/22/2013	10/8/2013	1/21/2013	4/16/2013	7/16/2013	7/22/2013	10/8/2013		1/22/2013	4/15/2013	7/22/2013
Sample Date												
VOCs (µg/L)												
1,1,1,2-Tetrachloroethane	<0.5	<0.25	<0.5	<0.25	<0.25	<0.5	<0.25	<0.5	<0.25	<0.25	<0.25	<0.25
1,1,2-Trichloroethane	<0.56	<0.28	<0.56	<0.28	<0.28	<0.56	<0.28	<0.56	<0.28	<0.28	2.2	<0.28
1,1-Dichloroethene	<0.62	<0.31	<0.62	<0.31	<0.31	<0.62	<0.31	<0.62	<0.31	<0.31	<0.31	<0.31
1,2,4-Trimethylbenzene	<0.28	<0.14	<0.28	<0.14	<0.14	<0.28	<0.14	<0.28	<0.14	<0.14	<0.14	<0.14
1,2-Dibromoethane	<0.72	<0.36	<0.72	<0.36	<0.36	<0.72	<0.36	<0.72	<0.36	<0.36	<0.36	<0.36
1,2-Dichlorobenzene	<0.54	<0.27	<0.54	<0.27	<0.27	<0.54	<0.27	<0.54	<0.27	<0.27	<0.27	<0.27
1,2-Dichloropropane	<0.4	<0.2	<0.4	<0.2	<0.2	<0.4	<0.2	<0.4	<0.2	<0.2	<0.2	<0.2
1,3,5-Trimethylbenzene	<0.36	<0.18	<0.36	<0.18	<0.18	<0.36	<0.18	<0.36	<0.18	<0.18	<0.18	<0.18
Benzene	<0.15	<0.074	<0.15	<0.074	<0.074	<0.15	<0.074	<0.15	<0.074	<0.074	<0.074	<0.074
Bromoform	<0.56	<0.28	<0.56	<0.28	<0.28	<0.56	<0.28	<0.56	<0.28	<0.28	<0.28	<0.28
Bromomethane	<0.62	<0.31	<0.62	<0.31	<0.31	<0.62	<0.31	<0.62	<0.31	<0.31	<0.31	<0.31
Carbon tetrachloride	<0.52	<0.26	<0.52	<0.26	<0.26	<0.52	<0.26	<0.52	<0.26	<0.26	<0.26	<0.26
Chloroform	<0.4	<0.2	<0.4	<0.2	<0.2	<0.4	<0.2	<0.4	<0.2	<0.2	<0.2	<0.2
Chloromethane	<0.36	<0.18	<0.36	<0.18	<0.18	<0.36	<0.18	<0.36	<0.18	<0.18	<0.18	<0.18
cis-1,2-Dichloroethene	27	29	27	<0.12	<0.12	22	21	22	7.5	23	14	
Dichlorodifluoromethane	<0.4	<0.2	<0.4	<0.2	<0.2	<0.4	<0.2	<0.4	<0.2	<0.2	<0.2	<0.2
Ethylbenzene	<0.26	<0.13	<0.26	<0.13	<0.13	<0.26	<0.13	<0.26	<0.13	<0.13	<0.13	<0.13
Isopropylbenzene	<0.28	<0.14	<0.28	<0.14	<0.14	<0.28	<0.14	<0.28	<0.14	<0.14	<0.14	<0.14
Methyl tert-butyl ether	<0.48	<0.24	<0.48	<0.24	<0.24	<0.48	<0.24	<0.48	2	0.84 J		<0.24
Methylene Chloride	<1.4	<0.68	<1.4	<0.68	<0.68	<1.4	<0.68	<1.4	<0.68	<0.68	<0.68	<0.68
Naphthalene	<0.32	<0.16	<0.32	<0.16	<0.16	<0.32	<0.16	<0.32	<0.16	<0.16	<0.16	<0.16
n-Butylbenzene	<0.26	<0.13	<0.26	<0.13	<0.13	<0.26	<0.13	<0.26	<0.13	<0.13	<0.13	<0.13
N-Propylbenzene	<0.26	<0.13	<0.26	<0.13	<0.13	<0.26	<0.13	<0.26	<0.13	<0.13	<0.13	<0.13
p-Isopropyltoluene	<0.34	<0.17	<0.34	<0.17	<0.17	<0.34	<0.17	<0.34	<0.17	<0.17	<0.17	<0.17
sec-Butylbenzene	<0.3	<0.15	<0.3	<0.15	<0.15	<0.3	<0.15	<0.3	<0.15	<0.15	<0.15	<0.15
Styrene	<0.2	<0.1	<0.2	<0.1	<0.1	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1
tert-Butylbenzene	<0.28	<0.14	<0.28	<0.14	<0.14	<0.28	<0.14	<0.28	<0.14	<0.14	<0.14	<0.14
Tetrachloroethene	820	920	970	1.2	9.2	520	520	640	130	160	130	
Toluene	<0.22	<0.11	<0.22	<0.11	<0.11	<0.22	<0.11	<0.22	<0.11	<0.11	<0.11	<0.11
trans-1,2-Dichloroethene	<0.5	<0.25	<0.5	<0.25	<0.25	<0.5	<0.25	<0.5	<0.25	<0.25	<0.25	<0.25
Trichloroethene	53	51	53	<0.19	0.78	42	37	37	11	15	12	
Vinyl chloride	<0.2	<0.1	0.53 J	<0.1	<0.1	<0.2	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1
Xylenes, Total	<0.14	<0.068	<0.14	<0.068	<0.068	<0.14	<0.068	<0.14	<0.068	<0.068	<0.068	<0.068

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MP-14 (continued)									MP-15		
	135-140'	135-140'	135-140'	170 - 178'	170-178'	170-178'	170-178'	170-178'	170-178'	88-92'	88-92'	88-92'
Sample Interval (feet bls)	7/16/2013	7/22/2013	10/8/2013	1/21/2013	4/16/2013	7/16/2013	7/22/2013	10/8/2013		1/22/2013	4/15/2013	7/22/2013
Sample Date												
PAHs (µg/L)												
1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs (µg/L)												
Aroclor1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs (µg/L)												
Aroclor1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (µg/L)												
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MP-14 (continued)									MP-15		
	135-140'	135-140'	135-140'	170 - 178'	170-178'	170-178'	170-178'	170-178'	170-178'	88-92'	88-92'	88-92'
Sample Interval (feet bls)	7/16/2013	7/22/2013	10/8/2013	1/21/2013	4/16/2013	7/16/2013	7/22/2013	10/8/2013		1/22/2013	4/15/2013	7/22/2013
Sample Date	7/16/2013	7/22/2013	10/8/2013	1/21/2013	4/16/2013	7/16/2013	7/22/2013	10/8/2013		1/22/2013	4/15/2013	7/22/2013
Total Metals (µg/L) (continued)												
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (µg/L)												
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

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

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

< Constituent not detected above noted laboratory detection limit.

* 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.

µg/L Micrograms per liter.

NA Not analyzed.

NE Not established.

ND Not detected.

PCBs Polychlorinated Biphenyls.

PAHs Polycyclic Aromatic Hydrocarbons.

VOCs Volatile Organic Compounds.

Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MP-15 (continued)									
	88-92'	100-105'	100-105'	100-105'	100-105'	120-125'	120-125'	120-125'	120-125'	142-146'
Sample Interval (feet bls)	10/8/2013	1/22/2013	4/15/2013	7/22/2013	10/8/2013	1/22/2013	4/15/2013	7/22/2013	10/8/2013	1/22/2013
Sample Date	10/8/2013	1/22/2013	4/15/2013	7/22/2013	10/8/2013	1/22/2013	4/15/2013	7/22/2013	10/8/2013	1/22/2013
VOCs (µg/L)										
1,1,1,2-Tetrachloroethane	<0.25	<0.25	<0.25	<0.25	<0.5	<0.5	<0.5	<1.3	<1.3	<0.25
1,1,2-Trichloroethane	<0.28	<0.28	<0.28	<0.28	<0.56	<0.56	<0.56	<1.4	<1.4	<0.28
1,1-Dichloroethene	<0.31	<0.31	<0.31	<0.31	<0.62	<0.62	<0.62	<1.6	<1.6	<0.31
1,2,4-Trimethylbenzene	<0.14	<0.14	<0.14	<0.14	<0.28	<0.28	<0.28	<0.7	<0.7	<0.14
1,2-Dibromoethane	<0.36	<0.36	<0.36	<0.36	<0.72	<0.72	<0.72	<1.8	<1.8	<0.36
1,2-Dichlorobenzene	<0.27	<0.27	<0.27	<0.27	<0.54	<0.54	<0.54	<1.4	<1.4	<0.27
1,2-Dichloropropane	<0.2	<0.2	<0.2	<0.2	<0.4	<0.4	<0.4	<1	<1	<0.2
1,3,5-Trimethylbenzene	<0.18	<0.18	<0.18	<0.18	<0.36	<0.36	<0.36	<0.9	<0.9	<0.18
Benzene	<0.074	<0.074	<0.074	<0.074	<0.15	<0.15	<0.15	<0.37	<0.37	<0.074
Bromoform	<0.28	<0.28	<0.28	<0.28	<0.56	<0.56	<0.56	<1.4	<1.4	<0.28
Bromomethane	<0.31	<0.31	<0.31	<0.31	<0.62	<0.62	<0.62	<1.6	<1.6	<0.31
Carbon tetrachloride	<0.26	<0.26	<0.26	<0.26	<0.52	<0.52	<0.52	<1.3	<1.3	<0.26
Chloroform	<0.2	<0.2	<0.2	<0.2	<0.4	<0.4	<0.4	<1	<1	<0.2
Chloromethane	<0.18	<0.18	<0.18	<0.18	<0.36	<0.36	<0.36	<0.9	<0.9	<0.18
cis-1,2-Dichloroethene	20	9.3	37	68	76	200	230	250	220	9.7
Dichlorodifluoromethane	<0.2	<0.2	<0.2	<0.2	<0.4	<0.4	<0.4	<1	<1	<0.2
Ethylbenzene	<0.13	<0.13	<0.13	<0.13	<0.26	<0.26	<0.26	<0.65	<0.65	<0.13
Isopropylbenzene	<0.14	<0.14	<0.14	<0.14	<0.28	<0.28	<0.28	<0.7	<0.7	<0.14
Methyl tert-butyl ether	3.3	2.2	1.3	<0.24	<0.48	<0.48	<0.48	<1.2	<1.2	2
Methylene Chloride	<0.68	<0.68	<0.68	<0.68	<1.4	<1.4	<1.4	<3.4	<3.4	<0.68
Naphthalene	<0.16	<0.16	<0.16	<0.16	<0.32	<0.32	<0.32	<0.8	<0.8	<0.16
n-Butylbenzene	<0.13	<0.13	<0.13	<0.13	<0.26	<0.26	<0.26	<0.65	<0.65	<0.13
N-Propylbenzene	<0.13	<0.13	<0.13	<0.13	<0.26	<0.26	<0.26	<0.65	<0.65	<0.13
p-Isopropyltoluene	<0.17	<0.17	<0.17	<0.17	<0.34	<0.34	<0.34	<0.85	<0.85	<0.17
sec-Butylbenzene	<0.15	<0.15	<0.15	<0.15	<0.3	<0.3	<0.3	<0.75	<0.75	<0.15
Styrene	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	<0.2	<0.5	<0.5	<0.1
tert-Butylbenzene	<0.14	<0.14	<0.14	<0.14	<0.28	<0.28	<0.28	<0.7	<0.7	<0.14
Tetrachloroethene	220	230	440	660	690	1,100	1,900	2,100	1,800	170
Toluene	<0.11	<0.11	<0.11	<0.11	<0.22	<0.22	<0.22	<0.55	<0.55	<0.11
trans-1,2-Dichloroethene	<0.25	<0.25	<0.25	0.51 J	<0.5	1.3 J	1.7 J	<1.3	<1.3	<0.25
Trichloroethene	19	16	41	65	72	160	210	220	190	14
Vinyl chloride	<0.1	<0.1	<0.1	<0.1	<0.2	<0.2	1	1.9 J	<0.5	<0.1
Xylenes, Total	<0.068	<0.068	<0.068	<0.068	<0.14	<0.14	<0.14	<0.34	<0.34	<0.068

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MP-15 (continued)									
	88-92'	100-105'	100-105'	100-105'	100-105'	120-125'	120-125'	120-125'	120-125'	142-146'
Sample Interval (feet bls)	10/8/2013	1/22/2013	4/15/2013	7/22/2013	10/8/2013	1/22/2013	4/15/2013	7/22/2013	10/8/2013	1/22/2013
Sample Date										
PAHs (µg/L)										
1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs (µg/L)										
Aroclor1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs (µg/L)										
Aroclor1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (µg/L)										
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MP-15 (continued)									
Sample Interval (feet bls)	88-92'	100-105'	100-105'	100-105'	100-105'	120-125'	120-125'	120-125'	120-125'	142-146'
Sample Date	10/8/2013	1/22/2013	4/15/2013	7/22/2013	10/8/2013	1/22/2013	4/15/2013	7/22/2013	10/8/2013	1/22/2013
Total Metals (µg/L) (continued)										
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (µg/L)										
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

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

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

< Constituent not detected above noted laboratory detection limit.

* 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.

µg/L Micrograms per liter.

NA Not analyzed.

NE Not established.

ND Not detected.

PCBs Polychlorinated Biphenyls.

PAHs Polycyclic Aromatic Hydrocarbons.

VOCs Volatile Organic Compounds.

Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MP-15 (continued)							MP-16		
	142-146'	142-146'	142-146'	177 - 187'	177-187'	177-187'	177-187'	80-84'	80-84'	80-84'
Sample Interval (feet bls)	4/15/2013	7/22/2013	10/8/2013	1/22/2013	4/15/2013	7/22/2013	10/8/2013	1/22/2013	4/16/2013	7/23/2013
Sample Date	4/15/2013	7/22/2013	10/8/2013	1/22/2013	4/15/2013	7/22/2013	10/8/2013	1/22/2013	4/16/2013	7/23/2013
VOCs (µg/L)										
1,1,1,2-Tetrachloroethane	<0.25	<0.25	<0.5	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
1,1,2-Trichloroethane	<0.28	<0.28	<0.56	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
1,1-Dichloroethene	<0.31	<0.31	<0.62	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31
1,2,4-Trimethylbenzene	<0.14	<0.14	<0.28	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
1,2-Dibromoethane	<0.36	<0.36	<0.72	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
1,2-Dichlorobenzene	<0.27	<0.27	<0.54	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27
1,2-Dichloropropane	<0.2	<0.2	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
1,3,5-Trimethylbenzene	<0.18	<0.18	<0.36	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
Benzene	<0.074	<0.074	<0.15	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074
Bromoform	<0.28	<0.28	<0.56	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Bromomethane	<0.31	<0.31	<0.62	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31
Carbon tetrachloride	<0.26	<0.26	<0.52	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26
Chloroform	<0.2	<0.2	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chloromethane	<0.18	<0.18	<0.36	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
cis-1,2-Dichloroethene	75	110	140	9.5	6.7	6	16	<0.12	<0.12	<0.12
Dichlorodifluoromethane	<0.2	<0.2	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2 *
Ethylbenzene	<0.13	<0.13	<0.26	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
Isopropylbenzene	<0.14	<0.14	<0.28	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
Methyl tert-butyl ether	<0.24	<0.24	<0.48	2.5	1.6	0.86 J	0.90 J	<0.24	<0.24	<0.24
Methylene Chloride	<0.68	<0.68	<1.4	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68
Naphthalene	<0.16	<0.16	<0.32	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
n-Butylbenzene	<0.13	<0.13	<0.26	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
N-Propylbenzene	<0.13	<0.13	<0.26	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
p-Isopropyltoluene	<0.17	<0.17	<0.34	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
sec-Butylbenzene	<0.15	<0.15	<0.3	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
Styrene	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
tert-Butylbenzene	<0.14	<0.14	<0.28	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
Tetrachloroethene	580	640	840	240	140	110	100	0.76 J	<0.17	<0.17
Toluene	<0.11	<0.11	<0.22	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11
trans-1,2-Dichloroethene	0.86 J	0.97 J	1.4 J	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
Trichloroethene	78	100	130	17	12	7.7	12	<0.19	<0.19	<0.19
Vinyl chloride	0.39 J	0.58	0.76 J	<0.1	<0.1	<0.1	0.34 J	<0.1	<0.1	<0.1
Xylenes, Total	<0.068	<0.068	<0.14	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MP-15 (continued)							MP-16		
	142-146'	142-146'	142-146'	177 - 187'	177-187'	177-187'	177-187'	80-84'	80-84'	80-84'
Sample Interval (feet bls)	4/15/2013	7/22/2013	10/8/2013	1/22/2013	4/15/2013	7/22/2013	10/8/2013	1/22/2013	4/16/2013	7/23/2013
Sample Date	4/15/2013	7/22/2013	10/8/2013	1/22/2013	4/15/2013	7/22/2013	10/8/2013	1/22/2013	4/16/2013	7/23/2013
PAHs (µg/L)										
1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs (µg/L)										
Aroclor1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs (µg/L)										
Aroclor1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (µg/L)										
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MP-15 (continued)							MP-16		
	142-146'	142-146'	142-146'	177 - 187'	177-187'	177-187'	177-187'	80-84'	80-84'	80-84'
Sample Interval (feet bls)	4/15/2013	7/22/2013	10/8/2013	1/22/2013	4/15/2013	7/22/2013	10/8/2013	1/22/2013	4/16/2013	7/23/2013
Sample Date	4/15/2013	7/22/2013	10/8/2013	1/22/2013	4/15/2013	7/22/2013	10/8/2013	1/22/2013	4/16/2013	7/23/2013
Total Metals (µg/L) (continued)										
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (µg/L)										
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

- 100** Concentration exceeds the NR 140 Wis. adm. code Preventive Action Limit.
- 100** Concentration exceeds the NR 140 Wis. adm. code Enforcement Standard.
- < Constituent not detected above noted laboratory detection limit.
- * 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.
- µg/L Micrograms per liter.
- NA Not analyzed.
- NE Not established.
- ND Not detected.
- PCBs Polychlorinated Biphenyls.
- PAHs Polycyclic Aromatic Hydrocarbons.
- VOCs Volatile Organic Compounds.

Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MP-16 (continued)										
	80-84'	106-116'	106-116'	106-116'	106-116'	140-144'	140-144'	140-144'	140-144'	175-179'	175-179'
Sample Interval (feet bls)	10/9/2013	1/22/2013	4/16/2013	7/23/2013	10/9/2013	1/22/2013	4/16/2013	7/23/2013	10/9/2013	1/22/2013	4/16/2013
Sample Date	10/9/2013	1/22/2013	4/16/2013	7/23/2013	10/9/2013	1/22/2013	4/16/2013	7/23/2013	10/9/2013	1/22/2013	4/16/2013
VOCs (µg/L)											
1,1,1,2-Tetrachloroethane	<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	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
1,1-Dichloroethene	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31
1,2,4-Trimethylbenzene	<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	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
1,2-Dichlorobenzene	<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	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
1,3,5-Trimethylbenzene	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
Benzene	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074
Bromoform	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Bromomethane	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31
Carbon tetrachloride	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26
Chloroform	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chloromethane	<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	<0.12	2.6	5.8	10	10	1.9	1.2	<0.12	<0.12	1.9	0.99 J
Dichlorodifluoromethane	<0.2	<0.2	<0.2	<0.2 *	<0.2	<0.2	<0.2	<0.2 *	<0.2	<0.2	<0.2
Ethylbenzene	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
Isopropylbenzene	<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	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24
Methylene Chloride	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68
Naphthalene	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
n-Butylbenzene	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
N-Propylbenzene	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
p-Isopropyltoluene	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
sec-Butylbenzene	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
Styrene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
tert-Butylbenzene	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
Tetrachloroethene	0.76 J	23	330	90	94	14	11	23	37	13	7
Toluene	<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	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
Trichloroethene	<0.19	3.8	44	12	13	2.1	2	3	6.1	2.2	1.2
Vinyl chloride	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Xylenes, Total	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068	<0.068

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MP-16 (continued)										
	80-84'	106-116'	106-116'	106-116'	106-116'	140-144'	140-144'	140-144'	140-144'	175-179'	175-179'
Sample Interval (feet bls)	10/9/2013	1/22/2013	4/16/2013	7/23/2013	10/9/2013	1/22/2013	4/16/2013	7/23/2013	10/9/2013	1/22/2013	4/16/2013
Sample Date	10/9/2013	1/22/2013	4/16/2013	7/23/2013	10/9/2013	1/22/2013	4/16/2013	7/23/2013	10/9/2013	1/22/2013	4/16/2013
PAHs (µg/L)											
1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs (µg/L)											
Aroclor1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs (µg/L)											
Aroclor1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (µg/L)											
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MP-16 (continued)										
	80-84'	106-116'	106-116'	106-116'	106-116'	140-144'	140-144'	140-144'	140-144'	175-179'	175-179'
Sample Interval (feet bls)	10/9/2013	1/22/2013	4/16/2013	7/23/2013	10/9/2013	1/22/2013	4/16/2013	7/23/2013	10/9/2013	1/22/2013	4/16/2013
Sample Date	10/9/2013	1/22/2013	4/16/2013	7/23/2013	10/9/2013	1/22/2013	4/16/2013	7/23/2013	10/9/2013	1/22/2013	4/16/2013
Total Metals (µg/L) (continued)											
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (µg/L)											
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

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

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

< Constituent not detected above noted laboratory detection limit.

* 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.

µg/L Micrograms per liter.

NA Not analyzed.

NE Not established.

ND Not detected.

PCBs Polychlorinated Biphenyls.

PAHs Polycyclic Aromatic Hydrocarbons.

VOCs Volatile Organic Compounds.

Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MP-16 (continued)		MW-17				MW-18S			
	175-179'	175-179'	160-170	160-170	160-170	160-170	20-30	20-30	20-30	20-30
Sample Interval (feet bls)	7/23/2013	10/9/2013	1/17/2013	4/20/2013	7/18/2013	10/8/2013	11/28/2012	12/17/2012	1/15/2013	2/12/2013
Sample Date	7/23/2013	10/9/2013	1/17/2013	4/20/2013	7/18/2013	10/8/2013	11/28/2012	12/17/2012	1/15/2013	2/12/2013
VOCs (µg/L)										
1,1,1,2-Tetrachloroethane	<0.25	<0.25	<0.5	<0.5	<0.25	<0.5	<1.3	NA	<0.25	<0.5
1,1,2-Trichloroethane	<0.28	<0.28	<0.56	11	<0.28	<0.56	<1.4	NA	<0.28	<0.56
1,1-Dichloroethene	<0.31	<0.31	<0.62	<0.62	<0.31	<0.62	<1.6	NA	<0.31	<0.62
1,2,4-Trimethylbenzene	<0.14	<0.14	<0.28	<0.28	<0.14	<0.28	<0.7	NA	<0.14	<0.28
1,2-Dibromoethane	<0.36	<0.36	<0.72	<0.72	<0.36	<0.72	<1.8	NA	<0.36	<0.72
1,2-Dichlorobenzene	<0.27	<0.27	<0.54	<0.54	<0.27	<0.54	<1.4	NA	<0.27	<0.54
1,2-Dichloropropane	<0.2	<0.2	<0.4	<0.4	<0.2	<0.4	<1	NA	<0.2	<0.4
1,3,5-Trimethylbenzene	<0.18	<0.18	<0.36	<0.36	<0.18	<0.36	<0.9	NA	<0.18	<0.36
Benzene	<0.074	<0.074	20	1.2	<0.074	<0.15	3.2	NA	0.46 J	1.4
Bromoform	<0.28	<0.28	<0.56	<0.56	<0.28	<0.56	<1.4	NA	<0.28	<0.56
Bromomethane	<0.31	<0.31	<0.62	<0.62	<0.31	<0.62	<1.6	NA	<0.31	<0.62
Carbon tetrachloride	<0.26	<0.26	1.2 J	<0.52	<0.26	<0.52	<1.3	NA	<0.26	<0.52
Chloroform	<0.2	<0.2	1.8 J	<0.4	0.86 J	<0.4	7.2	NA	2.3	4.5
Chloromethane	<0.18	<0.18	<0.36	<0.36	<0.18	<0.36	<0.9	NA	<0.18	<0.36
cis-1,2-Dichloroethene	<0.12	<0.12	3.5	1.7 J	1.6	<0.24	150	NA	40	77
Dichlorodifluoromethane	<0.2 *	<0.2	<0.4	<0.4	<0.2	<0.4	<1	NA	<0.2	<0.4
Ethylbenzene	<0.13	<0.13	<0.26	<0.26	<0.13	<0.26	<0.65	NA	<0.13	<0.26
Isopropylbenzene	<0.14	<0.14	<0.28	<0.28	<0.14	<0.28	<0.7	NA	<0.14	<0.28
Methyl tert-butyl ether	<0.24	<0.24	<0.48	<0.48	<0.24	<0.48	<1.2	NA	<0.24	<0.48
Methylene Chloride	<0.68	<0.68	<1.4	<1.4	<0.68	<1.4	<3.4	NA	<0.68	<1.4
Naphthalene	<0.16	<0.16	<0.32	<0.32	<0.16	<0.32	<0.8	NA	<0.16	<0.32
n-Butylbenzene	<0.13	<0.13	<0.26	<0.26	<0.13	<0.26	<0.65	NA	<0.13	<0.26
N-Propylbenzene	<0.13	<0.13	<0.26	<0.26	<0.13	<0.26	<0.65	NA	<0.13	<0.26
p-Isopropyltoluene	<0.17	<0.17	<0.34	<0.34	<0.17	<0.34	<0.85	NA	<0.17	<0.34
sec-Butylbenzene	<0.15	<0.15	<0.3	<0.3	<0.15	<0.3	<0.75	NA	<0.15	<0.3
Styrene	<0.1	<0.1	<0.2	<0.2	<0.1	<0.2	<0.5	NA	<0.1	<0.2
tert-Butylbenzene	<0.14	<0.14	<0.28	<0.28	<0.14	<0.28	<0.7	NA	<0.14	<0.28
Tetrachloroethene	2.2	3.7	1,300	790	470	800	3,300	NA	690	1,900
Toluene	<0.11	<0.11	1.8	<0.22	0.69	<0.22	1.1 J	NA	<0.11	<0.22
trans-1,2-Dichloroethene	<0.25	<0.25	1.5 J	<0.5	0.68 J	<0.5	7.4	NA	2.6	3.8
Trichloroethene	0.42 J	0.98	86	46	33	49	230	NA	59	130
Vinyl chloride	<0.1	<0.1	<0.2	<0.2	<0.1	<0.2	<0.5	NA	<0.1	<0.2
Xylenes, Total	<0.068	<0.068	3.1	<0.14	0.56 J	<0.14	<0.34	NA	<0.068	<0.14

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MP-16 (continued)		MW-17				MW-18S			
	175-179'	175-179'	160-170	160-170	160-170	160-170	20-30	20-30	20-30	20-30
Sample Interval (feet bls)	7/23/2013	10/9/2013	1/17/2013	4/20/2013	7/18/2013	10/8/2013	11/28/2012	12/17/2012	1/15/2013	2/12/2013
Sample Date	7/23/2013	10/9/2013	1/17/2013	4/20/2013	7/18/2013	10/8/2013	11/28/2012	12/17/2012	1/15/2013	2/12/2013
PAHs (µg/L)										
1-Methylnaphthalene	NA	NA	<1.1	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	<0.14	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NA	NA	0.35 J	NA	NA	NA	NA	NA	NA	NA
Total PCBs (µg/L)										
Aroclor1016	NA	NA	<0.17	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	<0.093	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	<0.13	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs (µg/L)										
Aroclor1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (µg/L)										
Arsenic	NA	NA	NA	NA	NA	NA	0.58 J	0.40 J	0.35 J	0.28 J
Barium	NA	NA	NA	NA	NA	NA	NA	240	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	0.13 J	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	<0.64	<0.64	1.3 J	<0.64
Iron	NA	NA	NA	NA	NA	NA	410	<37	55 J	<37
Lead	NA	NA	NA	NA	NA	NA	NA	<0.16	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	1,600	620	570	860 B

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MP-16 (continued)		MW-17				MW-18S			
	175-179'	175-179'	160-170	160-170	160-170	160-170	20-30	20-30	20-30	20-30
Sample Interval (feet bls)	7/23/2013	10/9/2013	1/17/2013	4/20/2013	7/18/2013	10/8/2013	11/28/2012	12/17/2012	1/15/2013	2/12/2013
Sample Date	7/23/2013	10/9/2013	1/17/2013	4/20/2013	7/18/2013	10/8/2013	11/28/2012	12/17/2012	1/15/2013	2/12/2013
Total Metals (µg/L) (continued)										
Mercury	NA	NA	NA	NA	NA	NA	NA	<0.071	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	0.58 J	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	<0.069	NA	NA
Dissolved Metals (µg/L)										
Arsenic	NA	NA	0.46 J	NA	NA	NA	0.46 J	NA	0.34 J	0.31 J
Barium	NA	NA	45	NA	NA	NA	200	NA	260	790
Cadmium	NA	NA	<0.1	NA	NA	NA	<0.1	NA	<0.1	0.36 J
Chromium	NA	NA	0.75 J	NA	NA	NA	<0.64	NA	<0.64	<0.64
Iron	NA	NA	<37	NA	NA	NA	<37	NA	<37	<37
Lead	NA	NA	<0.16	NA	NA	NA	<0.16	NA	<0.16	<0.16
Manganese	NA	NA	180	NA	NA	NA	1,600	NA	570	860 B
Mercury	NA	NA	<0.071	NA	NA	NA	<0.071	NA	<0.071	<0.071
Selenium	NA	NA	1.0 J	NA	NA	NA	0.43 J	NA	0.45 J	0.41 J
Silver	NA	NA	<0.069	NA	NA	NA	<0.069	NA	<0.069	<0.069

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

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

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

< Constituent not detected above noted laboratory detection limit.

* 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.

µg/L Micrograms per liter.

NA Not analyzed.

NE Not established.

ND Not detected.

PCBs Polychlorinated Biphenyls.

PAHs Polycyclic Aromatic Hydrocarbons.

VOCs Volatile Organic Compounds.

Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-18S (continued)				MW-19D					
	20-30	20-30	20-30	20-30	60-90	60-90	60-90	60-90	60-90	60-90
Sample Interval (feet bls)	3/12/2013	4/19/2013	7/17/2013	10/9/2013	11/29/2012	1/16/2013	2/11/2013	3/11/2013	4/18/2013	4/19/2013
Sample Date	3/12/2013	4/19/2013	7/17/2013	10/9/2013	11/29/2012	1/16/2013	2/11/2013	3/11/2013	4/18/2013	4/19/2013
VOCs (µg/L)										
1,1,1,2-Tetrachloroethane	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	NA	<1.3
1,1,2-Trichloroethane	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	NA	<1.4
1,1-Dichloroethene	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	NA	<1.6
1,2,4-Trimethylbenzene	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	NA	<0.7
1,2-Dibromoethane	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	NA	<1.8
1,2-Dichlorobenzene	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	NA	<1.4
1,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
1,3,5-Trimethylbenzene	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	NA	<0.9
Benzene	1.9 J	2.2 J	<0.37	1.3 J	<0.37	<0.37	<0.37	<0.37	NA	<0.37
Bromoform	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	NA	<1.4
Bromomethane	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6 *	<1.6	NA	<1.6
Carbon tetrachloride	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	NA	<1.3
Chloroform	7.5	6.2	<1	5.2	<1	<1	<1	<1	NA	<1
Chloromethane	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9	NA	<0.9
cis-1,2-Dichloroethene	110	99	70	78	530	170	450	420	NA	520
Dichlorodifluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	NA	<1
Ethylbenzene	<0.65	<0.65	<0.65	<0.65	<0.65	<0.65	<0.65	<0.65	NA	<0.65
Isopropylbenzene	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	NA	<0.7
Methyl tert-butyl ether	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	NA	<1.2
Methylene Chloride	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	<3.4	NA	<3.4
Naphthalene	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	NA	<0.8
n-Butylbenzene	<0.65	<0.65	<0.65	<0.65	<0.65	<0.65	<0.65	<0.65	NA	<0.65
N-Propylbenzene	<0.65	<0.65	<0.65	<0.65	<0.65	<0.65	<0.65	<0.65	NA	<0.65
p-Isopropyltoluene	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85	NA	<0.85
sec-Butylbenzene	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	NA	<0.75
Styrene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	<0.5
tert-Butylbenzene	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	NA	<0.7
Tetrachloroethene	2,600	2,600	2,900	1,800	2,400	1,700	2,700	2,100	NA	2,200
Toluene	<0.55	<0.55	<0.55	<0.55	<0.55	<0.55	<0.55	<0.55	NA	<0.55
trans-1,2-Dichloroethene	5.3	4.1 J	2.6 J	4.6 J	7.2	<1.3	4.4 J	5.1	NA	6.3
Trichloroethene	160	170	140	150	230	69	180	180	NA	200
Vinyl chloride	<0.5	<0.5	<0.5	<0.5	9.1	3.2	8	11	NA	18
Xylenes, Total	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	NA	<0.34

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-18S (continued)				MW-19D					
	20-30	20-30	20-30	20-30	60-90	60-90	60-90	60-90	60-90	60-90
Sample Interval (feet bls)	3/12/2013	4/19/2013	7/17/2013	10/9/2013	11/29/2012	1/16/2013	2/11/2013	3/11/2013	4/18/2013	4/19/2013
Sample Date	3/12/2013	4/19/2013	7/17/2013	10/9/2013	11/29/2012	1/16/2013	2/11/2013	3/11/2013	4/18/2013	4/19/2013
PAHs (µg/L)										
1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs (µg/L)										
Aroclor1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs (µg/L)										
Aroclor1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (µg/L)										
Arsenic	NA	NA	NA	NA	0.17 J	<0.15	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	<0.64	10	NA	NA	NA	NA
Iron	NA	NA	NA	NA	<37	120 B	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	24	1,100	NA	NA	NA	NA

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-18S (continued)				MW-19D					
	20-30	20-30	20-30	20-30	60-90	60-90	60-90	60-90	60-90	60-90
Sample Interval (feet bls)	20-30	20-30	20-30	20-30	60-90	60-90	60-90	60-90	60-90	60-90
Sample Date	3/12/2013	4/19/2013	7/17/2013	10/9/2013	11/29/2012	1/16/2013	2/11/2013	3/11/2013	4/18/2013	4/19/2013
Total Metals (µg/L) (continued)										
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (µg/L)										
Arsenic	NA	NA	NA	NA	0.17 J	<0.15	NA	NA	NA	NA
Barium	NA	NA	NA	NA	63	49	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	<0.1	<0.1	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	<0.64	9.6	NA	NA	NA	NA
Iron	NA	NA	NA	NA	<37	<37	NA	NA	NA	NA
Lead	NA	NA	NA	NA	<0.16	<0.16	NA	NA	NA	NA
Manganese	920	1,100	1,100	NA	26	940	NA	NA	19 B	NA
Mercury	NA	NA	NA	NA	<0.071	0.32	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	0.48 J	0.97 J	NA	NA	NA	NA
Silver	NA	NA	NA	NA	<0.069	<0.069	NA	NA	NA	NA

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

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

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

< Constituent not detected above noted laboratory detection limit.

* 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.

µg/L Micrograms per liter.

NA Not analyzed.

NE Not established.

ND Not detected.

PCBs Polychlorinated Biphenyls.

PAHs Polycyclic Aromatic Hydrocarbons.

VOCs Volatile Organic Compounds.

Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-19D (continued)		MW-19D2							
	60-90	60-90	110-140	110-140	110-140	110-140	110-140	110-140	110-140	110-140
Sample Interval (feet bls)	60-90	60-90	110-140	110-140	110-140	110-140	110-140	110-140	110-140	110-140
Sample Date	7/17/2013	10/9/2013	11/29/2012	1/17/2013	2/11/2013	3/12/2013	4/18/2013	7/17/2013	7/17/2013	10/9/2013
VOCs (µg/L)										
1,1,1,2-Tetrachloroethane	<1.3	<1.3	<0.5	<0.5	<0.5	<0.5	<1.3	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	<1.4	<1.4	<0.56	<0.56	<0.56	<0.56	<1.4	<0.56	<0.56	<0.56
1,1-Dichloroethene	<1.6	<1.6	<0.62	<0.62	<0.62	<0.62	<1.6	<0.62	<0.62	<0.62
1,2,4-Trimethylbenzene	<0.7	<0.7	<0.28	<0.28	<0.28	<0.28	<0.7	<0.28	<0.28	<0.28
1,2-Dibromoethane	<1.8	<1.8	<0.72	<0.72	<0.72	<0.72	<1.8	<0.72	<0.72	<0.72
1,2-Dichlorobenzene	<1.4	<1.4	<0.54	<0.54	<0.54	<0.54	<1.4	<0.54	<0.54	<0.54
1,2-Dichloropropane	<1	<1	<0.4	<0.4	<0.4	<0.4	<1	<0.4	<0.4	<0.4
1,3,5-Trimethylbenzene	<0.9	<0.9	<0.36	<0.36	<0.36	<0.36	<0.9	<0.36	<0.36	<0.36
Benzene	<0.37	<0.37	<0.15	<0.15	<0.15	<0.15	<0.37	<0.15	<0.15	<0.15
Bromoform	<1.4	<1.4	<0.56	<0.56	<0.56	<0.56	<1.4	<0.56	<0.56	<0.56
Bromomethane	<1.6	<1.6	<0.62	<0.62	<0.62 *	<0.62	<1.6	<0.62	<0.62	<0.62
Carbon tetrachloride	<1.3	<1.3	<0.52	<0.52	<0.52	<0.52	<1.3	<0.52	<0.52	<0.52
Chloroform	<1	<1	<0.4	<0.4	<0.4	<0.4	<1	<0.4	<0.4	<0.4
Chloromethane	<0.9	<0.9	<0.36	<0.36	<0.36	<0.36	<0.9	<0.36	<0.36	<0.36
cis-1,2-Dichloroethene	540	300	250	320	270	260	200	<0.24	98	120
Dichlorodifluoromethane	<1	<1	<0.4	<0.4	<0.4	<0.4	<1	<0.4	<0.4	<0.4
Ethylbenzene	<0.65	<0.65	<0.26	<0.26	<0.26	<0.26	<0.65	<0.26	<0.26	<0.26
Isopropylbenzene	<0.7	<0.7	<0.28	<0.28	<0.28	<0.28	<0.7	<0.28	<0.28	<0.28
Methyl tert-butyl ether	<1.2	<1.2	<0.48	<0.48	<0.48	<0.48	<1.2	<0.48	<0.48	<0.48
Methylene Chloride	<3.4	<3.4	<1.4	<1.4	<1.4	<1.4	<3.4	<1.4	<1.4	<1.4
Naphthalene	<0.8	<0.8	<0.32	<0.32	<0.32	<0.32	<0.8	<0.32	<0.32	<0.32
n-Butylbenzene	<0.65	<0.65	<0.26	<0.26	<0.26	<0.26	<0.65	<0.26	<0.26	<0.26
N-Propylbenzene	<0.65	<0.65	<0.26	<0.26	<0.26	<0.26	<0.65	<0.26	<0.26	<0.26
p-Isopropyltoluene	<0.85	<0.85	<0.34	<0.34	<0.34	<0.34	<0.85	<0.34	<0.34	<0.34
sec-Butylbenzene	<0.75	<0.75	<0.3	<0.3	<0.3	<0.3	<0.75	<0.3	<0.3	<0.3
Styrene	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2
tert-Butylbenzene	<0.7	<0.7	<0.28	<0.28	<0.28	<0.28	<0.7	<0.28	<0.28	<0.28
Tetrachloroethene	2,700	1,500	680	1,200	1,300	1,400	1,000	820	1,200	950
Toluene	<0.55	<0.55	<0.22	<0.22	<0.22	<0.22	<0.55	<0.22	<0.22	<0.22
trans-1,2-Dichloroethene	8.1	4.1 J	3.4	4.9	4.2	4.2	2.6 J	<0.5	<0.5	<0.5
Trichloroethene	240	150	110	160	150	150	130	<0.38	110	120
Vinyl chloride	20	6.6	0.93 J	<0.2	<0.2	<0.2	<0.5	<0.2	<0.2	<0.2
Xylenes, Total	<0.34	<0.34	<0.14	<0.14	<0.14	<0.14	<0.34	<0.14	<0.14	<0.14

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-19D (continued)			MW-19D2						
	60-90	60-90	110-140	110-140	110-140	110-140	110-140	110-140	110-140	110-140
Sample Interval (feet bls)	7/17/2013	10/9/2013	11/29/2012	1/17/2013	2/11/2013	3/12/2013	4/18/2013	7/17/2013	7/17/2013	10/9/2013
Sample Date	7/17/2013	10/9/2013	11/29/2012	1/17/2013	2/11/2013	3/12/2013	4/18/2013	7/17/2013	7/17/2013	10/9/2013
PAHs (µg/L)										
1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs (µg/L)										
Aroclor1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs (µg/L)										
Aroclor1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (µg/L)										
Arsenic	NA	NA	0.25 J	1.3 J	0.21 J	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	1.4 J	<3.2	<0.64	NA	NA	NA	NA	NA
Iron	NA	NA	50 J B	1,800	55 J	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	330	1,800	270 B	NA	NA	NA	NA	NA

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-19D (continued)		MW-19D2							
	60-90	60-90	110-140	110-140	110-140	110-140	110-140	110-140	110-140	110-140
Sample Interval (feet bls)	7/17/2013	10/9/2013	11/29/2012	1/17/2013	2/11/2013	3/12/2013	4/18/2013	7/17/2013	7/17/2013	10/9/2013
Sample Date	7/17/2013	10/9/2013	11/29/2012	1/17/2013	2/11/2013	3/12/2013	4/18/2013	7/17/2013	7/17/2013	10/9/2013
Total Metals (µg/L) (continued)										
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (µg/L)										
Arsenic	NA	NA	0.27 J	0.95 J	0.18 J	NA	NA	NA	NA	NA
Barium	NA	NA	130	550	88	NA	NA	NA	NA	NA
Cadmium	NA	NA	<0.1	0.58 J	0.13 J	NA	NA	NA	NA	NA
Chromium	NA	NA	1.1 J	<3.2	<0.64	NA	NA	NA	NA	NA
Iron	NA	NA	<37	<180	<37	NA	NA	NA	NA	NA
Lead	NA	NA	0.42 J	<0.78	0.21 J	NA	NA	NA	NA	NA
Manganese	12	NA	290	1,700	250 B	150	92 B	4,700	NA	NA
Mercury	NA	NA	0.12 J	NA	<0.071	NA	NA	NA	NA	NA
Selenium	NA	NA	0.75 J	2.1 J	0.46 J	NA	NA	NA	NA	NA
Silver	NA	NA	<0.069	<0.34	<0.069	NA	NA	NA	NA	NA

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

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

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

< Constituent not detected above noted laboratory detection limit.

* 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.

µg/L Micrograms per liter.

NA Not analyzed.

NE Not established.

ND Not detected.

PCBs Polychlorinated Biphenyls.

PAHs Polycyclic Aromatic Hydrocarbons.

VOCs Volatile Organic Compounds.

Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-20D							MW-20D2		
	60-90	60-90	60-90	60-90	60-90	60-90	60-90	110-140	110-140	110-140
Sample Interval (feet bls)	11/29/2012	1/16/2013	2/12/2013	3/12/2013	4/18/2013	7/17/2013	10/9/2013	11/29/2012	1/16/2013	2/12/2013
Sample Date	11/29/2012	1/16/2013	2/12/2013	3/12/2013	4/18/2013	7/17/2013	10/9/2013	11/29/2012	1/16/2013	2/12/2013
VOCs (µg/L)										
1,1,1,2-Tetrachloroethane	<1.3	<0.25	<0.25	<0.25	<1.3	<0.5	<1.3	<0.5	<0.25	<0.25
1,1,2-Trichloroethane	<1.4	<0.28	<0.28	<0.28	<1.4	<0.56	<1.4	<0.56	<0.28	<0.28
1,1-Dichloroethene	<1.6	<0.31	<0.31	<0.31	<1.6	<0.62	<1.6	<0.62	<0.31	<0.31
1,2,4-Trimethylbenzene	<0.7	<0.14	<0.14	<0.14	<0.7	<0.28	<0.7	<0.28	<0.14	<0.14
1,2-Dibromoethane	<1.8	<0.36	<0.36	<0.36	<1.8	<0.72	<1.8	<0.72	<0.36	<0.36
1,2-Dichlorobenzene	<1.4	<0.27	<0.27	<0.27	<1.4	<0.54	<1.4	<0.54	<0.27	<0.27
1,2-Dichloropropane	<1	<0.2	<0.2	<0.2	<1	<0.4	<1	<0.4	<0.2	<0.2
1,3,5-Trimethylbenzene	<0.9	<0.18	<0.18	<0.18	<0.9	<0.36	<0.9	<0.36	<0.18	<0.18
Benzene	<0.37	<0.074	<0.074	<0.074	<0.37	<0.15	<0.37	<0.15	<0.074	0.19 J
Bromoform	<1.4	<0.28	<0.28	<0.28	<1.4	<0.56	<1.4	<0.56	<0.28	<0.28
Bromomethane	<1.6	<0.31	<0.31	<0.31	<1.6	<0.62	<1.6	<0.62	<0.31	<0.31
Carbon tetrachloride	<1.3	<0.26	<0.26	<0.26	<1.3	<0.52	<1.3	<0.52	<0.26	<0.26
Chloroform	<1	<0.2	<0.2	<0.2	<1	<0.4	<1	<0.4	0.47 J	<0.2
Chloromethane	<0.9	<0.18	<0.18	<0.18	<0.9	<0.36	<0.9	<0.36	<0.18	<0.18
cis-1,2-Dichloroethene	370	0.69 J	20	39	220	180	170	330	<0.12	3
Dichlorodifluoromethane	<1	<0.2	<0.2	<0.2	<1	<0.4	<1	<0.4	<0.2	<0.2
Ethylbenzene	<0.65	<0.13	<0.13	<0.13	<0.65	<0.26	<0.65	<0.26	<0.13	<0.13
Isopropylbenzene	<0.7	<0.14	<0.14	<0.14	<0.7	<0.28	<0.7	<0.28	<0.14	<0.14
Methyl tert-butyl ether	<1.2	<0.24	<0.24	<0.24	<1.2	<0.48	<1.2	<0.48	<0.24	<0.24
Methylene Chloride	<3.4	<0.68	<0.68	<0.68	<3.4	<1.4	<3.4	<1.4	<0.68	<0.68
Naphthalene	<0.8	<0.16	<0.16	<0.16	<0.8	<0.32	<0.8	<0.32	<0.16	<0.16
n-Butylbenzene	<0.65	<0.13	<0.13	<0.13	<0.65	<0.26	<0.65	<0.26	<0.13	<0.13
N-Propylbenzene	<0.65	<0.13	<0.13	<0.13	<0.65	<0.26	<0.65	<0.26	<0.13	<0.13
p-Isopropyltoluene	<0.85	<0.17	<0.17	<0.17	<0.85	<0.34	<0.85	<0.34	<0.17	<0.17
sec-Butylbenzene	<0.75	<0.15	<0.15	<0.15	<0.75	<0.3	<0.75	<0.3	<0.15	<0.15
Styrene	<0.5	<0.1	<0.1	<0.1	<0.5	<0.2	<0.5	<0.2	<0.1	<0.1
tert-Butylbenzene	<0.7	<0.14	<0.14	<0.14	<0.7	<0.28	<0.7	<0.28	<0.14	<0.14
Tetrachloroethene	1,600	190	690	650	1,100	1,000	1,200	1,300	190	700
Toluene	<0.55	0.45 J	<0.11	<0.11	<0.55	<0.22	<0.55	<0.22	0.34 J	<0.11
trans-1,2-Dichloroethene	5	<0.25	<0.25	<0.25	<1.3	2.2	<1.3	4.3	<0.25	<0.25
Trichloroethene	170	0.54	20	29	100	100	89	150	<0.19	7.9
Vinyl chloride	3.2	<0.1	<0.1	<0.1	1.0 J	<0.2	<0.5	1.7	<0.1	<0.1
Xylenes, Total	<0.34	<0.068	<0.068	<0.068	<0.34	<0.14	<0.34	<0.14	<0.068	<0.068

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-20D							MW-20D2		
	60-90	60-90	60-90	60-90	60-90	60-90	60-90	110-140	110-140	110-140
Sample Interval (feet bls)	11/29/2012	1/16/2013	2/12/2013	3/12/2013	4/18/2013	7/17/2013	10/9/2013	11/29/2012	1/16/2013	2/12/2013
Sample Date	11/29/2012	1/16/2013	2/12/2013	3/12/2013	4/18/2013	7/17/2013	10/9/2013	11/29/2012	1/16/2013	2/12/2013
PAHs (µg/L)										
1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs (µg/L)										
Aroclor1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs (µg/L)										
Aroclor1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (µg/L)										
Arsenic	0.24 J	<0.74	NA	NA	NA	NA	NA	0.26 J	<0.74	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	<0.64	100	NA	NA	NA	NA	NA	<0.64	39	NA
Iron	<37	<180	NA	NA	NA	NA	NA	<37	<180	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	27	35,000	NA	NA	NA	NA	NA	50	140,000	NA

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-20D							MW-20D2		
	60-90	60-90	60-90	60-90	60-90	60-90	60-90	110-140	110-140	110-140
Sample Interval (feet bls)	60-90	60-90	60-90	60-90	60-90	60-90	60-90	110-140	110-140	110-140
Sample Date	11/29/2012	1/16/2013	2/12/2013	3/12/2013	4/18/2013	7/17/2013	10/9/2013	11/29/2012	1/16/2013	2/12/2013
Total Metals (µg/L) (continued)										
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (µg/L)										
Arsenic	0.18 J	<0.74	NA	NA	NA	NA	NA	0.27 J	<0.74	NA
Barium	59	25	NA	NA	NA	NA	NA	170	28	NA
Cadmium	<0.1	<0.52	NA	NA	NA	NA	NA	<0.1	<0.52	NA
Chromium	<0.64	100	NA	NA	NA	NA	NA	<0.64	42	NA
Iron	<37	<180	NA	NA	NA	NA	NA	<37	<180	NA
Lead	<0.16	4	NA	NA	NA	NA	NA	<0.16	<0.78	NA
Manganese	25	34,000	NA	NA	NA	79	NA	16	170,000	NA
Mercury	<0.071	0.65	NA	NA	NA	NA	NA	0.10 J	0.16 J	NA
Selenium	0.71 J	3.0 J	NA	NA	NA	NA	NA	1.2 J	3.8 J	NA
Silver	<0.069	<0.34	NA	NA	NA	NA	NA	<0.069	<0.34	NA

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

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

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

< Constituent not detected above noted laboratory detection limit.

* 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.

µg/L Micrograms per liter.

NA Not analyzed.

NE Not established.

ND Not detected.

PCBs Polychlorinated Biphenyls.

PAHs Polycyclic Aromatic Hydrocarbons.

VOCs Volatile Organic Compounds.

Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-20D2 (continued)				MW-21D					
	110-140	110-140	110-140	110-140	60-90	60-90	60-90	60-90	60-90	60-90
Sample Interval (feet bls)	110-140	110-140	110-140	110-140	60-90	60-90	60-90	60-90	60-90	60-90
Sample Date	3/12/2013	4/18/2013	7/17/2013	10/15/2013	11/28/2012	1/17/2013	2/14/2013	3/12/2013	4/17/2013	7/18/2013
VOCs (µg/L)										
1,1,1,2-Tetrachloroethane	<0.25	<1.3	<0.25	<0.25	<0.5	<0.25	<0.5	<0.5	<1.3	<1.3
1,1,2-Trichloroethane	<0.28	<1.4	<0.28	<0.28	<0.56	<0.28	<0.56	<0.56	<1.4	<1.4
1,1-Dichloroethene	<0.31	<1.6	<0.31	<0.31	<0.62	<0.31	<0.62	<0.62	<1.6	<1.6
1,2,4-Trimethylbenzene	<0.14	<0.7	<0.14	<0.14	<0.28	<0.14	<0.28	<0.28	<0.7	<0.7
1,2-Dibromoethane	<0.36	<1.8	<0.36	<0.36	<0.72	<0.36	<0.72	<0.72	<1.8	<1.8
1,2-Dichlorobenzene	<0.27	<1.4	<0.27	<0.27	<0.54	<0.27	<0.54	<0.54	<1.4	<1.4
1,2-Dichloropropane	<0.2	<1	<0.2	<0.2	<0.4	<0.2	<0.4	<0.4	<1	<1
1,3,5-Trimethylbenzene	<0.18	<0.9	<0.18	<0.18	<0.36	<0.18	<0.36	<0.36	<0.9	<0.9
Benzene	<0.074	<0.37	<0.074	<0.074	<0.15	<0.074	<0.15	<0.15	<0.37	<0.37
Bromoform	<0.28	<1.4	<0.28	<0.28	<0.56	<0.28	<0.56	<0.56	<1.4	<1.4
Bromomethane	<0.31	<1.6	<0.31	<0.31	<0.62	<0.31	<0.62 *	<0.62	<1.6	<1.6
Carbon tetrachloride	<0.26	<1.3	<0.26	<0.26	<0.52	<0.26	<0.52	<0.52	<1.3	<1.3
Chloroform	<0.2	<1	<0.2	<0.2	<0.4	<0.2	<0.4	<0.4	<1	<1
Chloromethane	<0.18	<0.9	<0.18	<0.18	<0.36	<0.18	<0.36	<0.36	<0.9	<0.9
cis-1,2-Dichloroethene	2.8	30	<0.12	1.4	380	85	270	310	310	370
Dichlorodifluoromethane	<0.2	<1	<0.2	<0.2	<0.4	<0.2	<0.4	<0.4	<1	<1
Ethylbenzene	<0.13	<0.65	<0.13	<0.13	<0.26	0.43 J	<0.26	<0.26	<0.65	<0.65
Isopropylbenzene	<0.14	<0.7	<0.14	<0.14	<0.28	<0.14	<0.28	<0.28	<0.7	<0.7
Methyl tert-butyl ether	<0.24	<1.2	<0.24	<0.24	<0.48	<0.24	<0.48	<0.48	<1.2	<1.2
Methylene Chloride	<0.68	<3.4	<0.68	<0.68	<1.4	<0.68	<1.4	<1.4	<3.4	<3.4
Naphthalene	<0.16	<0.8	<0.16	<0.16	<0.32	<0.16	<0.32	<0.32	<0.8	<0.8
n-Butylbenzene	<0.13	<0.65	<0.13	<0.13	<0.26	<0.13	<0.26	<0.26	<0.65	<0.65
N-Propylbenzene	<0.13	<0.65	<0.13	<0.13	<0.26	<0.13	<0.26	<0.26	<0.65	<0.65
p-Isopropyltoluene	<0.17	<0.85	<0.17	<0.17	<0.34	<0.17	<0.34	<0.34	<0.85	<0.85
sec-Butylbenzene	<0.15	<0.75	<0.15	<0.15	<0.3	<0.15	<0.3	<0.3	<0.75	<0.75
Styrene	<0.1	<0.5	<0.1	<0.1	<0.2	<0.1	<0.2	<0.2	<0.5	<0.5
tert-Butylbenzene	<0.14	<0.7	<0.14	<0.14	<0.28	<0.14	<0.28	<0.28	<0.7	<0.7
Tetrachloroethene	490	1,100	53	380	1,200	700	1,600	1,500	1,100	1,700
Toluene	<0.11	<0.55	<0.11	<0.11	<0.22	0.38 J	<0.22	<0.22	<0.55	<0.55
trans-1,2-Dichloroethene	<0.25	<1.3	<0.25	<0.25	5.1	<0.25	<0.5	2.9	<1.3	5.2
Trichloroethene	5.3	41	<0.19	4.5	180	23	130	160	140	180
Vinyl chloride	<0.1	<0.5	<0.1	<0.1	1.4	<0.1	<0.2	<0.2	<0.5	<0.5
Xylenes, Total	<0.068	<0.34	<0.068	<0.068	<0.14	2.5	<0.14	<0.14	<0.34	<0.34

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-20D2 (continued)				MW-21D					
	110-140	110-140	110-140	110-140	60-90	60-90	60-90	60-90	60-90	60-90
Sample Interval (feet bls)	3/12/2013	4/18/2013	7/17/2013	10/15/2013	11/28/2012	1/17/2013	2/14/2013	3/12/2013	4/17/2013	7/18/2013
Sample Date	3/12/2013	4/18/2013	7/17/2013	10/15/2013	11/28/2012	1/17/2013	2/14/2013	3/12/2013	4/17/2013	7/18/2013
PAHs (µg/L)										
1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs (µg/L)										
Aroclor1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs (µg/L)										
Aroclor1016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (µg/L)										
Arsenic	NA	NA	NA	NA	0.20 J	<0.74	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	<0.64	22 J	NA	NA	NA	NA
Iron	NA	NA	NA	NA	<37	<180	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	74	6,000	NA	NA	NA	NA

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-20D2 (continued)				MW-21D					
	110-140	110-140	110-140	110-140	60-90	60-90	60-90	60-90	60-90	60-90
Sample Interval (feet bls)	3/12/2013	4/18/2013	7/17/2013	10/15/2013	11/28/2012	1/17/2013	2/14/2013	3/12/2013	4/17/2013	7/18/2013
Sample Date	3/12/2013	4/18/2013	7/17/2013	10/15/2013	11/28/2012	1/17/2013	2/14/2013	3/12/2013	4/17/2013	7/18/2013
Total Metals (µg/L) (continued)										
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (µg/L)										
Arsenic	NA	NA	NA	NA	0.19 J	<0.74	NA	NA	NA	NA
Barium	NA	NA	NA	NA	75	26	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	<0.1	<0.52	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	<0.64	23 J	NA	NA	NA	NA
Iron	NA	NA	NA	NA	<37	<180	NA	NA	NA	NA
Lead	NA	NA	NA	NA	<0.16	<0.78	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	75	6,100	NA	NA	NA	4
Mercury	NA	NA	NA	NA	0.16 J B	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	<0.25	<1.3	NA	NA	NA	NA
Silver	NA	NA	NA	NA	0.12 J	<0.34	NA	NA	NA	NA

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

- 100** Concentration exceeds the NR 140 Wis. adm. code Preventive Action Limit.
- 100** Concentration exceeds the NR 140 Wis. adm. code Enforcement Standard.
- < Constituent not detected above noted laboratory detection limit.
- * 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.
- µg/L Micrograms per liter.
- NA Not analyzed.
- NE Not established.
- ND Not detected.
- PCBs Polychlorinated Biphenyls.
- PAHs Polycyclic Aromatic Hydrocarbons.
- VOCs Volatile Organic Compounds.

Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-21D (continued)			MW-21D2				
	60-90	110-170	110-170	110-170	110-170	110-170	110-170	110-170
Sample Interval (feet bls)	60-90	110-170	110-170	110-170	110-170	110-170	110-170	110-170
Sample Date	10/10/2013	11/28/2012	1/17/2013	2/14/2013	3/12/2013	4/17/2013	7/18/2013	10/15/2013
VOCs (µg/L)								
1,1,1,2-Tetrachloroethane	<1.3	<1.3	<0.25	<1.3	<1.3	<2.5	<1.3	<0.5
1,1,2-Trichloroethane	<1.4	<1.4	1.4	<1.4	<1.4	<2.8	<1.4	<0.56
1,1-Dichloroethene	<1.6	<1.6	<0.31	<1.6	<1.6	<3.1	<1.6	<0.62
1,2,4-Trimethylbenzene	<0.7	<0.7	<0.14	<0.7	<0.7	<1.4	<0.7	<0.28
1,2-Dibromoethane	<1.8	<1.8	<0.36	<1.8	<1.8	<3.6	<1.8	<0.72
1,2-Dichlorobenzene	<1.4	<1.4	<0.27	<1.4	<1.4	<2.7	<1.4	<0.54
1,2-Dichloropropane	<1	<1	<0.2	<1	<1	<2	<1	<0.4
1,3,5-Trimethylbenzene	<0.9	<0.9	<0.18	<0.9	<0.9	<1.8	<0.9	<0.36
Benzene	<0.37	<0.37	0.25 J	<0.37	<0.37	<0.74	<0.37	<0.15
Bromoform	<1.4	<1.4	<0.28	<1.4	<1.4	<2.8	<1.4	<0.56
Bromomethane	<1.6	<1.6	<0.31	<1.6 *	<1.6	<3.1	<1.6	<0.62
Carbon tetrachloride	<1.3	<1.3	<0.26	<1.3	<1.3	<2.6	<1.3	<0.52
Chloroform	<1	<1	<0.2	<1	<1	<2	<1	<0.4
Chloromethane	<0.9	<0.9	<0.18	<0.9	<0.9	<1.8	<0.9	<0.36
cis-1,2-Dichloroethene	360	300	<0.12	<0.6	<0.6	190	220	110
Dichlorodifluoromethane	<1	<1	<0.2	<1	<1	<2	<1	<0.4
Ethylbenzene	<0.65	<0.65	0.62	<0.65	<0.65	<1.3	<0.65	<0.26
Isopropylbenzene	<0.7	<0.7	<0.14	<0.7	<0.7	<1.4	<0.7	<0.28
Methyl tert-butyl ether	<1.2	<1.2	<0.24	<1.2	<1.2	<2.4	<1.2	<0.48
Methylene Chloride	<3.4	<3.4	<0.68	<3.4	<3.4	<6.8	<3.4	<1.4
Naphthalene	<0.8	<0.8	<0.16	<0.8	<0.8	<1.6	<0.8	<0.32
n-Butylbenzene	<0.65	<0.65	<0.13	<0.65	<0.65	<1.3	<0.65	<0.26
N-Propylbenzene	<0.65	<0.65	<0.13	<0.65	<0.65	<1.3	<0.65	<0.26
p-Isopropyltoluene	<0.85	<0.85	<0.17	<0.85	<0.85	<1.7	<0.85	<0.34
sec-Butylbenzene	<0.75	<0.75	<0.15	<0.75	<0.75	<1.5	<0.75	<0.3
Styrene	<0.5	<0.5	<0.1	<0.5	<0.5	<1	<0.5	<0.2
tert-Butylbenzene	<0.7	<0.7	<0.14	<0.7	<0.7	<1.4	<0.7	<0.28
Tetrachloroethene	1,600	2,600	1,200	3,900	2,200	3,500	2,500	1,500
Toluene	<0.55	<0.55	0.48 J	<0.55	<0.55	<1.1	<0.55	<0.22
trans-1,2-Dichloroethene	6	2.7 J	<0.25	<1.3	<1.3	<2.5	<1.3	<0.5
Trichloroethene	160	160	<0.19	11	14	150	210	120
Vinyl chloride	<0.5	<0.5	<0.1	<0.5	<0.5	<1	<0.5	<0.2
Xylenes, Total	<0.34	<0.34	4.3	<0.34	<0.34	<0.68	<0.34	<0.14

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-21D (continued)			MW-21D2				
	60-90	110-170	110-170	110-170	110-170	110-170	110-170	110-170
Sample Interval (feet bls)	10/10/2013	11/28/2012	1/17/2013	2/14/2013	3/12/2013	4/17/2013	7/18/2013	10/15/2013
Sample Date	10/10/2013	11/28/2012	1/17/2013	2/14/2013	3/12/2013	4/17/2013	7/18/2013	10/15/2013
PAHs (µg/L)								
1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs (µg/L)								
Aroclor1016	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs (µg/L)								
Aroclor1016	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (µg/L)								
Arsenic	NA	0.29 J	<0.74	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	6.5	40	NA	NA	NA	NA	NA
Iron	NA	460	<180	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	450	340,000	NA	NA	NA	NA	NA

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-21D (continued)			MW-21D2				
	60-90	110-170	110-170	110-170	110-170	110-170	110-170	110-170
Sample Interval (feet bls)	10/10/2013	11/28/2012	1/17/2013	2/14/2013	3/12/2013	4/17/2013	7/18/2013	10/15/2013
Sample Date	10/10/2013	11/28/2012	1/17/2013	2/14/2013	3/12/2013	4/17/2013	7/18/2013	10/15/2013
Total Metals (µg/L) (continued)								
Mercury	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (µg/L)								
Arsenic	NA	0.22 J	<0.74	NA	NA	NA	NA	NA
Barium	NA	100	37	NA	NA	NA	NA	NA
Cadmium	NA	<0.1	<0.52	NA	NA	NA	NA	NA
Chromium	NA	5.6	45	NA	NA	NA	NA	NA
Iron	NA	<37	<180	NA	NA	NA	NA	NA
Lead	NA	<0.16	<0.78	NA	NA	NA	NA	NA
Manganese	NA	410	340,000	NA	NA	NA	28	NA
Mercury	NA	0.18 J B	NA	NA	NA	NA	NA	NA
Selenium	NA	0.37 J	5.4 J	NA	NA	NA	NA	NA
Silver	NA	<0.069	<0.34	NA	NA	NA	NA	NA

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

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

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

< Constituent not detected above noted laboratory detection limit.

* 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.

µg/L Micrograms per liter.

NA Not analyzed.

NE Not established.

ND Not detected.

PCBs Polychlorinated Biphenyls.

PAHs Polycyclic Aromatic Hydrocarbons.

VOCs Volatile Organic Compounds.

Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-22S					MW-22D				
	24-35	24-35	24-35	24-35	24-35	45-50	45-50	45-50	45-50	45-50
Sample Interval (feet bls)	1/15/2013	3/7/2013	4/19/2013	7/16/2013	10/10/2013	1/15/2013	3/8/2013	4/19/2013	7/16/2013	10/10/2013
Sample Date	1/15/2013	3/7/2013	4/19/2013	7/16/2013	10/10/2013	1/15/2013	3/8/2013	4/19/2013	7/16/2013	10/10/2013
VOCs (µg/L)										
1,1,1,2-Tetrachloroethane	<0.25	NA	<0.25	<0.25	<0.25	<0.25	NA	<0.25	<0.25	<0.25
1,1,2-Trichloroethane	<0.28	NA	<0.28	<0.28	<0.28	<0.28	NA	<0.28	<0.28	<0.28
1,1-Dichloroethene	<0.31	NA	<0.31	<0.31	<0.31	<0.31	NA	<0.31	<0.31	<0.31
1,2,4-Trimethylbenzene	0.86 J	NA	<0.14	<0.14	<0.14	<0.14	NA	<0.14	<0.14	<0.14
1,2-Dibromoethane	<0.36	NA	<0.36	<0.36	<0.36	<0.36	NA	<0.36	<0.36	<0.36
1,2-Dichlorobenzene	<0.27	NA	<0.27	<0.27	<0.27	<0.27	NA	<0.27	<0.27	<0.27
1,2-Dichloropropane	<0.2	NA	<0.2	<0.2	<0.2	<0.2	NA	<0.2	<0.2	<0.2
1,3,5-Trimethylbenzene	<0.18	NA	<0.18	<0.18	<0.18	<0.18	NA	<0.18	<0.18	<0.18
Benzene	1.1	NA	<0.074	<0.074	<0.074	<0.074	NA	<0.074	<0.074	<0.074
Bromoform	<0.28	NA	<0.28	<0.28	<0.28	<0.28	NA	<0.28	<0.28	<0.28
Bromomethane	<0.31	NA	<0.31	<0.31	<0.31	<0.31	NA	<0.31	<0.31	<0.31
Carbon tetrachloride	<0.26	NA	<0.26	<0.26	<0.26	<0.26	NA	<0.26	<0.26	<0.26
Chloroform	1	NA	0.91 J	1.4	<0.2	<0.2	NA	<0.2	<0.2	<0.2
Chloromethane	<0.18	NA	<0.18	<0.18	<0.18	0.47 J	NA	<0.18	<0.18	<0.18
cis-1,2-Dichloroethene	1.8	NA	6.1	3.8	97	3.6	NA	4.9	3.7	<0.12
Dichlorodifluoromethane	<0.2	NA	<0.2	<0.2	<0.2	<0.2	NA	<0.2	<0.2	<0.2
Ethylbenzene	0.5	NA	<0.13	<0.13	<0.13	<0.13	NA	<0.13	<0.13	<0.13
Isopropylbenzene	<0.14	NA	<0.14	<0.14	<0.14	<0.14	NA	<0.14	<0.14	<0.14
Methyl tert-butyl ether	<0.24	NA	<0.24	<0.24	<0.24	<0.24	NA	<0.24	<0.24	<0.24
Methylene Chloride	<0.68	NA	<0.68	<0.68	<0.68	<0.68	NA	<0.68	<0.68	<0.68
Naphthalene	<0.16	NA	<0.16	<0.16	<0.16	<0.16	NA	<0.16	<0.16	<0.16
n-Butylbenzene	<0.13	NA	<0.13	<0.13	<0.13	<0.13	NA	<0.13	<0.13	<0.13
N-Propylbenzene	<0.13	NA	<0.13	<0.13	<0.13	<0.13	NA	<0.13	<0.13	<0.13
p-Isopropyltoluene	<0.17	NA	<0.17	<0.17	<0.17	<0.17	NA	<0.17	<0.17	<0.17
sec-Butylbenzene	<0.15	NA	<0.15	<0.15	<0.15	<0.15	NA	<0.15	<0.15	<0.15
Styrene	<0.1	NA	<0.1	<0.1	<0.1	<0.1	NA	<0.1	<0.1	<0.1
tert-Butylbenzene	<0.14	NA	<0.14	<0.14	<0.14	<0.14	NA	<0.14	<0.14	<0.14
Tetrachloroethene	180	NA	160	210	13	520	NA	450	270	190
Toluene	1.7	NA	<0.11	<0.11	<0.11	<0.11	NA	<0.11	0.37 J	<0.11
trans-1,2-Dichloroethene	<0.25	NA	<0.25	<0.25	<0.25	<0.25	NA	<0.25	<0.25	<0.25
Trichloroethene	4.8	NA	5.4	8.5	6.1	5.8	NA	5.8	5.0	4.9
Vinyl chloride	<0.1	NA	<0.1	<0.1	<0.1	<0.1	NA	<0.1	<0.1	<0.1
Xylenes, Total	1.5	NA	<0.068	<0.068	<0.068	<0.068	NA	<0.068	<0.068	<0.068

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-22S					MW-22D				
	24-35	24-35	24-35	24-35	24-35	45-50	45-50	45-50	45-50	45-50
Sample Interval (feet bls)	1/15/2013	3/7/2013	4/19/2013	7/16/2013	10/10/2013	1/15/2013	3/8/2013	4/19/2013	7/16/2013	10/10/2013
Sample Date	1/15/2013	3/7/2013	4/19/2013	7/16/2013	10/10/2013	1/15/2013	3/8/2013	4/19/2013	7/16/2013	10/10/2013
PAHs (µg/L)										
1-Methylnaphthalene	<1	NA	NA	NA	NA	<1	NA	NA	NA	NA
2-Methylnaphthalene	<0.13	NA	NA	NA	NA	<0.14	NA	NA	NA	NA
Naphthalene	0.31 J	NA	NA	NA	NA	<0.31	NA	NA	NA	NA
Total PCBs (µg/L)										
Aroclor1016	12	<0.033	4	<0.064	<0.064	2.4	<0.033	<0.064	<0.063	<0.063
Aroclor1232	<0.49	13	<0.19	<0.19	12	<0.092	2.6	<0.19	<0.19	3.3
Aroclor1242	<0.69	<0.099	<0.19	4.7	<0.19	<0.13	<0.1	<0.19	0.97	<0.19
Total Detected PCBs	12	13	4	4.7	12	2.4	2.6	ND	1.0	3.3
Dissolved PCBs (µg/L)										
Aroclor1016	NA	<0.037	<0.068	<0.065	<0.063	NA	<0.033	<0.064	<0.064	<0.065
Aroclor1232	NA	<0.11	<0.2	<0.19	<0.19	NA	<0.1	<0.19	<0.19	<0.19
Aroclor1242	NA	<0.11	<0.2	<0.19	<0.19	NA	<0.1	<0.19	<0.19	<0.19
Total Detected PCBs	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND
Total Metals (µg/L)										
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-22S					MW-22D				
	24-35	24-35	24-35	24-35	24-35	45-50	45-50	45-50	45-50	45-50
Sample Interval (feet bls)	1/15/2013	3/7/2013	4/19/2013	7/16/2013	10/10/2013	1/15/2013	3/8/2013	4/19/2013	7/16/2013	10/10/2013
Sample Date	1/15/2013	3/7/2013	4/19/2013	7/16/2013	10/10/2013	1/15/2013	3/8/2013	4/19/2013	7/16/2013	10/10/2013
Total Metals (µg/L) (continued)										
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (µg/L)										
Arsenic	1.2	NA	NA	NA	NA	0.29 J	NA	NA	NA	NA
Barium	200	NA	NA	NA	NA	130	NA	NA	NA	NA
Cadmium	<0.1	NA	NA	NA	NA	<0.1	NA	NA	NA	NA
Chromium	<0.64	NA	NA	NA	NA	1.8 J	NA	NA	NA	NA
Iron	200	NA	NA	NA	NA	66 J	NA	NA	NA	NA
Lead	0.22 J	NA	NA	NA	NA	<0.16	NA	NA	NA	NA
Manganese	1,400	NA	NA	NA	NA	510	NA	NA	NA	NA
Mercury	<0.071	NA	NA	NA	NA	<0.071	NA	NA	NA	NA
Selenium	0.34 J	NA	NA	NA	NA	<0.25	NA	NA	NA	NA
Silver	<0.069	NA	NA	NA	NA	<0.069	NA	NA	NA	NA

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

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

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

< Constituent not detected above noted laboratory detection limit.

* 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.

µg/L Micrograms per liter.

NA Not analyzed.

NE Not established.

ND Not detected.

PCBs Polychlorinated Biphenyls.

PAHs Polycyclic Aromatic Hydrocarbons.

VOCs Volatile Organic Compounds.

Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-23S						MW-23D			
	24-35	24-35	24-35	24-35	24-35	24-35	45-50	45-50	45-50	45-50
Sample Interval (feet bls)	1/15/2013	4/19/2013	7/16/2013	9/5/2013	9/5/2013	10/10/2013	1/14/2013	3/8/2013	4/19/2013	4/20/2013
Sample Date	1/15/2013	4/19/2013	7/16/2013	9/5/2013	9/5/2013	10/10/2013	1/14/2013	3/8/2013	4/19/2013	4/20/2013
VOCs (µg/L)										
1,1,1,2-Tetrachloroethane	<0.25	<0.25	<0.25	<0.25	NA	<0.25	<0.25	NA	<0.25	NA
1,1,2-Trichloroethane	<0.28	<0.28	<0.28	<0.28	NA	1.8	<0.28	NA	<0.28	NA
1,1-Dichloroethene	<0.31	<0.31	<0.31	<0.31	NA	<0.31	<0.31	NA	<0.31	NA
1,2,4-Trimethylbenzene	<0.14	<0.14	<0.14	<0.14	NA	<0.14	<0.14	NA	<0.14	NA
1,2-Dibromoethane	<0.36	<0.36	<0.36	<0.36	NA	<0.36	<0.36	NA	<0.36	NA
1,2-Dichlorobenzene	<0.27	<0.27	<0.27	<0.27	NA	<0.27	<0.27	NA	<0.27	NA
1,2-Dichloropropane	<0.2	<0.2	<0.2	<0.2	NA	<0.2	<0.2	NA	<0.2	NA
1,3,5-Trimethylbenzene	<0.18	<0.18	<0.18	<0.18	NA	<0.18	<0.18	NA	<0.18	NA
Benzene	0.73	<0.074	<0.074	<0.074	NA	<0.074	0.32 J	NA	<0.074	NA
Bromoform	<0.28	<0.28	<0.28	<0.28	NA	<0.28	<0.28	NA	<0.28	NA
Bromomethane	<0.31	<0.31	<0.31	<0.31	NA	<0.31	<0.31	NA	<0.31	NA
Carbon tetrachloride	<0.26	<0.26	<0.26	<0.26	NA	<0.26	<0.26	NA	<0.26	NA
Chloroform	<0.2	<0.2	<0.2	<0.2	NA	<0.2	<0.2	NA	<0.2	NA
Chloromethane	1.2	<0.18	<0.18	<0.18	NA	<0.18	<0.18	NA	<0.18	NA
cis-1,2-Dichloroethene	<0.12	3.7	29	27	NA	16	<0.12	NA	<0.12	NA
Dichlorodifluoromethane	<0.2	<0.2	<0.2	<0.2	NA	<0.2	<0.2	NA	<0.2	NA
Ethylbenzene	0.43 J	<0.13	<0.13	<0.13	NA	<0.13	0.20 J	NA	<0.13	NA
Isopropylbenzene	<0.14	<0.14	<0.14	<0.14	NA	<0.14	<0.14	NA	<0.14	NA
Methyl tert-butyl ether	<0.24	<0.24	<0.24	<0.24	NA	<0.24	<0.24	NA	<0.24	NA
Methylene Chloride	<0.68	<0.68	<0.68	<0.68	NA	<0.68	<0.68	NA	<0.68	NA
Naphthalene	<0.16	<0.16	<0.16	<0.16	NA	<0.16	<0.16	NA	<0.16	NA
n-Butylbenzene	<0.13	<0.13	<0.13	<0.13	NA	<0.13	<0.13	NA	<0.13	NA
N-Propylbenzene	<0.13	<0.13	<0.13	<0.13	NA	<0.13	<0.13	NA	<0.13	NA
p-Isopropyltoluene	<0.17	<0.17	<0.17	<0.17	NA	<0.17	<0.17	NA	<0.17	NA
sec-Butylbenzene	<0.15	<0.15	<0.15	<0.15	NA	<0.15	<0.15	NA	<0.15	NA
Styrene	<0.1	<0.1	<0.1	<0.1	NA	<0.1	<0.1	NA	<0.1	NA
tert-Butylbenzene	<0.14	<0.14	<0.14	<0.14	NA	<0.14	<0.14	NA	<0.14	NA
Tetrachloroethene	290	580	420	240	NA	130	100	NA	86	NA
Toluene	1.3	<0.11	<0.11	<0.11	NA	<0.11	0.6	NA	<0.11	NA
trans-1,2-Dichloroethene	<0.25	<0.25	<0.25	<0.25	NA	<0.25	<0.25	NA	<0.25	NA
Trichloroethene	0.6	1.4	20	17	NA	15	<0.19	NA	0.53	NA
Vinyl chloride	<0.1	<0.1	<0.1	<0.1	NA	<0.1	<0.1	NA	<0.1	NA
Xylenes, Total	0.95 J	<0.068	<0.068	<0.068	NA	<0.068	0.68 J	NA	<0.068	NA

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-23S						MW-23D			
	24-35	24-35	24-35	24-35	24-35	24-35	45-50	45-50	45-50	45-50
Sample Interval (feet bls)	1/15/2013	4/19/2013	7/16/2013	9/5/2013	9/5/2013	10/10/2013	1/14/2013	3/8/2013	4/19/2013	4/20/2013
Sample Date	1/15/2013	4/19/2013	7/16/2013	9/5/2013	9/5/2013	10/10/2013	1/14/2013	3/8/2013	4/19/2013	4/20/2013
PAHs (µg/L)										
1-Methylnaphthalene	<1	NA	NA	NA	NA	NA	<1.1	NA	NA	NA
2-Methylnaphthalene	<0.14	NA	NA	NA	NA	NA	<0.14	NA	NA	NA
Naphthalene	<0.31	NA	NA	NA	NA	NA	<0.33	NA	NA	NA
Total PCBs (µg/L)										
Aroclor1016	<0.19	NA	<0.063	<0.028	NA	<0.066	<0.16	<0.034	NA	<0.065
Aroclor1232	<0.11	NA	<0.19	<0.083	NA	<0.2	<0.089	<0.1	NA	<0.19
Aroclor1242	<0.15	NA	<0.19	<0.083	NA	<0.2	0.24 J	<0.1	NA	<0.19
Total Detected PCBs	ND	NA	ND	ND	NA	ND	0.24	ND	NA	ND
Dissolved PCBs (µg/L)										
Aroclor1016	NA	NA	<0.063	NA	<0.026	<0.064	NA	<0.034	NA	<0.066
Aroclor1232	NA	NA	<0.19	NA	<0.078	<0.19	NA	<0.1	NA	<0.2
Aroclor1242	NA	NA	<0.19	NA	<0.078	<0.19	NA	<0.1	NA	<0.2
Total Detected PCBs	NA	NA	ND	NA	ND	ND	NA	ND	NA	ND
Total Metals (µg/L)										
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-23S						MW-23D			
	24-35	24-35	24-35	24-35	24-35	24-35	45-50	45-50	45-50	45-50
Sample Interval (feet bls)	1/15/2013	4/19/2013	7/16/2013	9/5/2013	9/5/2013	10/10/2013	1/14/2013	3/8/2013	4/19/2013	4/20/2013
Sample Date	1/15/2013	4/19/2013	7/16/2013	9/5/2013	9/5/2013	10/10/2013	1/14/2013	3/8/2013	4/19/2013	4/20/2013
Total Metals (µg/L) (continued)										
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (µg/L)										
Arsenic	0.56 J	NA	NA	NA	NA	NA	0.35 J	NA	NA	NA
Barium	120	NA	NA	NA	NA	NA	120	NA	NA	NA
Cadmium	<0.1	NA	NA	NA	NA	NA	<0.1	NA	NA	NA
Chromium	0.90 J	NA	NA	NA	NA	NA	<0.64	NA	NA	NA
Iron	280	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	0.25 J	NA	NA	NA	NA	NA	<0.16	NA	NA	NA
Manganese	880	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	<0.071	NA	NA	NA	NA	NA	<0.071	NA	NA	NA
Selenium	0.79 J	NA	NA	NA	NA	NA	1.0 J	NA	NA	NA
Silver	<0.069	NA	NA	NA	NA	NA	<0.069	NA	NA	NA

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

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

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

< Constituent not detected above noted laboratory detection limit.

* 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.

µg/L Micrograms per liter.

NA Not analyzed.

NE Not established.

ND Not detected.

PCBs Polychlorinated Biphenyls.

PAHs Polycyclic Aromatic Hydrocarbons.

VOCs Volatile Organic Compounds.

Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-23D (continued)		MW-24			MW-25D			MW-25D2	
	45-50	45-50	30-40	30-40	30-40	120-130	120-130	120-130	160-170	160-170
Sample Interval (feet bls)	7/17/2013	10/10/2013	4/29/2013	7/19/2013	10/8/2013	5/6/2013	7/19/2013	10/9/2013	5/6/2013	7/19/2013
Sample Date	7/17/2013	10/10/2013	4/29/2013	7/19/2013	10/8/2013	5/6/2013	7/19/2013	10/9/2013	5/6/2013	7/19/2013
VOCs (µg/L)										
1,1,1,2-Tetrachloroethane	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
1,1,2-Trichloroethane	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
1,1-Dichloroethene	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31
1,2,4-Trimethylbenzene	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
1,2-Dibromoethane	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
1,2-Dichlorobenzene	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27
1,2-Dichloropropane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
1,3,5-Trimethylbenzene	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
Benzene	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074	<0.074
Bromoform	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Bromomethane	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31
Carbon tetrachloride	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26
Chloroform	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chloromethane	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
cis-1,2-Dichloroethene	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
Dichlorodifluoromethane	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Ethylbenzene	<0.13	<0.13	<0.13	0.31 J	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
Isopropylbenzene	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
Methyl tert-butyl ether	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24
Methylene Chloride	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	<0.68	5.3	<0.68	<0.68
Naphthalene	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
n-Butylbenzene	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
N-Propylbenzene	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
p-Isopropyltoluene	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
sec-Butylbenzene	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
Styrene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
tert-Butylbenzene	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
Tetrachloroethene	170	160	3.0	3.0	3.3	0.76 J	2.8	3.1	<0.17	<0.17
Toluene	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11
trans-1,2-Dichloroethene	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
Trichloroethene	0.21 J	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
Vinyl chloride	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Xylenes, Total	<0.068	<0.068	<0.068	0.37 J	<0.068	<0.068	0.36 J	<0.068	<0.068	<0.068

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-23D (continued)		MW-24			MW-25D			MW-25D2	
	45-50	45-50	30-40	30-40	30-40	120-130	120-130	120-130	160-170	160-170
Sample Interval (feet bls)	7/17/2013	10/10/2013	4/29/2013	7/19/2013	10/8/2013	5/6/2013	7/19/2013	10/9/2013	5/6/2013	7/19/2013
Sample Date	7/17/2013	10/10/2013	4/29/2013	7/19/2013	10/8/2013	5/6/2013	7/19/2013	10/9/2013	5/6/2013	7/19/2013
PAHs (µg/L)										
1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs (µg/L)										
Aroclor1016	<0.067 *	<0.064	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	<0.2	<0.19	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	<0.2	<0.19	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs (µg/L)										
Aroclor1016	<0.068 *	<0.065	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1232	<0.2	<0.19	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor1242	<0.2	<0.19	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Total Metals (µg/L)										
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-23D (continued)		MW-24			MW-25D			MW-25D2	
	45-50	45-50	30-40	30-40	30-40	120-130	120-130	120-130	160-170	160-170
Sample Interval (feet bls)	7/17/2013	10/10/2013	4/29/2013	7/19/2013	10/8/2013	5/6/2013	7/19/2013	10/9/2013	5/6/2013	7/19/2013
Sample Date	7/17/2013	10/10/2013	4/29/2013	7/19/2013	10/8/2013	5/6/2013	7/19/2013	10/9/2013	5/6/2013	7/19/2013
Total Metals (µg/L) (continued)										
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Metals (µg/L)										
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

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

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

< Constituent not detected above noted laboratory detection limit.

* 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.

µg/L Micrograms per liter.

NA Not analyzed.

NE Not established.

ND Not detected.

PCBs Polychlorinated Biphenyls.

PAHs Polycyclic Aromatic Hydrocarbons.

VOCs Volatile Organic Compounds.

Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-25D2 (continued)	MW-26S		MW-27D	MW-27D2
	160-170	6.8-16.8	6.8-16.8	130-140	170-180
Sample Interval (feet bls)	10/4/2013	8/23/2013	10/9/2013	12/26/2013	12/26/2013
Sample Date	10/4/2013	8/23/2013	10/9/2013	12/26/2013	12/26/2013
VOCs (µg/L)					
1,1,1,2-Tetrachloroethane	<0.25	<0.25	<0.25	<0.25	<0.25
1,1,2-Trichloroethane	<0.28	<0.28	<0.28	<0.28	<0.28
1,1-Dichloroethene	<0.31	<0.31	<0.31	<0.31	<0.31
1,2,4-Trimethylbenzene	<0.14	<0.14	<0.14	<0.14	<0.14
1,2-Dibromoethane	<0.36	<0.36	<0.36	<0.36	<0.36
1,2-Dichlorobenzene	<0.27	<0.27	<0.27	<0.27	<0.27
1,2-Dichloropropane	<0.2	<0.2	<0.2	<0.2	<0.2
1,3,5-Trimethylbenzene	<0.18	<0.18	<0.18	<0.18	<0.18
Benzene	<0.074	<0.074	<0.074	<0.074	<0.074
Bromoform	<0.28	<0.28	<0.28	<0.28	<0.28
Bromomethane	<0.31	<0.31	<0.31	<0.31	<0.31
Carbon tetrachloride	<0.26	<0.26	<0.26	<0.26	<0.26
Chloroform	<0.2	<0.2	<0.2	<0.2	<0.2
Chloromethane	<0.18	<0.18	<0.18	<0.18	<0.18
cis-1,2-Dichloroethene	<0.12	<0.12	<0.12	0.85 J	4
Dichlorodifluoromethane	<0.2	<0.2	<0.2	<0.2	<0.2
Ethylbenzene	<0.13	<0.13	<0.13	<0.13	<0.13
Isopropylbenzene	<0.14	<0.14	<0.14	<0.14	<0.14
Methyl tert-butyl ether	<0.24	<0.24	<0.24	<0.24	<0.24
Methylene Chloride	<0.68	<0.68	<0.68	<0.68	<0.68
Naphthalene	<0.16	<0.16	<0.16	<0.16	<0.16
n-Butylbenzene	<0.13	<0.13	<0.13	<0.13	<0.13
N-Propylbenzene	<0.13	<0.13	<0.13	<0.13	<0.13
p-Isopropyltoluene	<0.17	<0.17	<0.17	<0.17	<0.17
sec-Butylbenzene	<0.15	<0.15	<0.15	<0.15	<0.15
Styrene	<0.1	<0.1	<0.1	<0.1	<0.1
tert-Butylbenzene	<0.14	<0.14	<0.14	<0.14	<0.14
Tetrachloroethene	<0.17	1.4	<0.17	1.8	11
Toluene	<0.11	<0.11	<0.11	1	0.20 J
trans-1,2-Dichloroethene	<0.25	<0.25	<0.25	<0.25	<0.25
Trichloroethene	<0.19	<0.19	<0.19	1.3	7.2
Vinyl chloride	<0.1	<0.1	<0.1	<0.1	<0.1
Xylenes, Total	<0.068	<0.068	<0.068	<0.068	<0.068

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Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-25D2 (continued)		MW-26S		MW-27D	MW-27D2
	160-170	6.8-16.8	6.8-16.8	130-140	170-180	
Sample Interval (feet bls)	10/4/2013	8/23/2013	10/9/2013	12/26/2013	12/26/2013	
Sample Date						
PAHs (µg/L)						
1-Methylnaphthalene	NA	NA	NA	NA	NA	
2-Methylnaphthalene	NA	NA	NA	NA	NA	
Naphthalene	NA	NA	NA	NA	NA	
Total PCBs (µg/L)						
Aroclor1016	NA	NA	NA	NA	NA	
Aroclor1232	NA	NA	NA	NA	NA	
Aroclor1242	NA	NA	NA	NA	NA	
Total Detected PCBs	NA	NA	NA	NA	NA	
Dissolved PCBs (µg/L)						
Aroclor1016	NA	NA	NA	NA	NA	
Aroclor1232	NA	NA	NA	NA	NA	
Aroclor1242	NA	NA	NA	NA	NA	
Total Detected PCBs	NA	NA	NA	NA	NA	
Total Metals (µg/L)						
Arsenic	NA	NA	NA	NA	NA	
Barium	NA	NA	NA	NA	NA	
Cadmium	NA	NA	NA	NA	NA	
Chromium	NA	NA	NA	NA	NA	
Iron	NA	NA	NA	NA	NA	
Lead	NA	NA	NA	NA	NA	
Manganese	NA	NA	NA	NA	NA	

Footnotes on Page 111.

Table 4-3. Groundwater Analytical Results 2010-2013, Madison-Kipp Corporation, Madison, Wisconsin.

Well ID	MW-25D2 (continued)		MW-26S		MW-27D	MW-27D2
	160-170	6.8-16.8	6.8-16.8	130-140	170-180	
Sample Interval (feet bls)						
Sample Date	10/4/2013	8/23/2013	10/9/2013	12/26/2013	12/26/2013	
Total Metals (µg/L) (continued)						
Mercury	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA
Dissolved Metals (µg/L)						
Arsenic	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA
Mercury	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA

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

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

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

< Constituent not detected above noted laboratory detection limit.

* 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.

µg/L Micrograms per liter.

NA Not analyzed.

NE Not established.

ND Not detected.

PCBs Polychlorinated Biphenyls.

PAHs Polycyclic Aromatic Hydrocarbons.

VOCs Volatile Organic Compounds.

Table 4-4. Summary of Soil Vapor Probe Analytical Results 2009 - 2013, Madison-Kipp Corporation, Madison, Wisconsin.

Sample Name Sample Date	Calculated Screening Levels ^{1,2}		VP-1N			VP-1S			VP-2N		
	Deep Soil Gas Non-Residential	Deep Soil Gas Residential	09/17/09	10/26/12	07/15/13	09/17/09	10/26/12	07/15/13	09/17/09	10/26/12	07/15/13
	VOC										
cis-1,2-Dichloroethene	NE	NE	--	0.52	2.6	--	<0.15	0.26	--	<0.93	2.5
trans-1,2-Dichloroethene	65,604	1,590	--	<0.36	<0.26	--	<0.15	<0.16	--	<0.93	<0.39
1,2-Dichloroethene**	NE	NE	<20	0.52	2.6	341	<0.15	0.26	500	<0.93	2.5
Tetrachloroethene	26,512	619	160	65	76	1,400	4.8	33	1,300	160	110
Trichloroethene	1,642	39	<10	0.52	1.1	260	0.15	0.44	370	<0.93	1.4
Vinyl Chloride	10,954	63	--	<0.36	<0.26	--	<0.15	<0.16	--	<0.93	<0.39

All units presented in parts per billion by volume (ppbv).

1 Screening Levels were calculated in accordance with Section VI A 1 of *Addressing Vapor Intrusion at Remediation and Redevelopment Sites in Wisconsin* (WDNR, 2010), accessed at: <http://dnr.wi.gov/files/PDF/pubs/rr/RR800.pdf>

2 For non-residential, the following attenuation factor was used: 0.001 for deep soil gas to indoor air [Section VI A 3 of WDNR (2010)].
For residential, the following attenuation factor was used: 0.01 for deep soil gas to indoor air [Section VI A 2 of WDNR (2010)].

** The compound 1,2-Dichloroethene was reported in 2009. The compounds cis- and trans-1,2-Dichloroethene were reported in 2011 and 2012 and have been manually combined for comparison purposes.

Residential and non-residential criteria are provided for comparison purposes. Soil Vapor Probes VP-3 through VP-6 are compared only to deep soil gas non-residential criteria due to the location of the probes (large commercial/industrial building, greater than 5 feet below the nearest building foundation).

100 Result exceeds the Wisconsin Residential Deep Soil Gas Calculated Screening Level with a 0.01 attenuation factor
100 Result exceeds the Wisconsin Non-Residential Deep Soil Gas Calculated Screening Level with a 0.001 attenuation factor

< Constituent not detected above noted laboratory detection limit.

-- Not designated.

*D Limit of detection not achievable due to dilution.

*IS The internal standard quality control limit is exceeded.

DUP Duplicate sample.

NE Not Established.

VOC Volatile Organic Compound

Table 4-4. Summary of Soil Vapor Probe Analytical Results 2009 - 2013, Madison-Kipp Corporation, Madison, Wisconsin.

Sample Name Sample Date	VP-2S			VP-3		VP-3 DUP	VP-4		VP-5	
	09/17/09	10/26/12	07/15/13	03/30/12	10/26/12	10/26/12	03/30/12	10/26/12	03/30/12	10/26/12
VOC										
cis-1,2-Dichloroethene	--	<0.14	0.54	0.6	<0.16	<0.15	<0.15	<0.15	1.1	26
trans-1,2-Dichloroethene	--	<0.14	<0.31	<0.17	<0.16	<0.15	<0.15	<0.15	<0.15	0.38
1,2-Dichloroethene**	332	<0.14	0.54	0.6	<0.16	<0.15	<0.15	<0.15	1.1	26.38
Tetrachloroethene	1,100	12	86	18	3.2	3.8	0.68	0.2	2.1	27
Trichloroethene	240	<0.14	0.38	2	0.36	0.44	<0.15	<0.15	1.1	22
Vinyl Chloride	--	<0.14	<0.31	<0.17	<0.16	<0.15	<0.15	<0.15	<0.15	1.2

All units presented in parts per billion by volume (ppbv).

1 Screening Levels were calculated in accordance with Section VI A 1 of *Addressing Vapor Intrusion at Remediation and Redevelopment Sites in Wisconsin* (WDNR, 2010), accessed at: <http://dnr.wi.gov/files/PDF/pubs/rr/RR800.pdf>

2 For non-residential, the following attenuation factor was used: 0.001 for deep soil gas to indoor air [Section VI A 3 of WDNR (2010)].
For residential, the following attenuation factor was used: 0.01 for deep soil gas to indoor air [Section VI A 2 of WDNR (2010)].

** The compound 1,2-Dichloroethene was reported in 2009. The compounds cis- and trans-1,2-Dichloroethene were reported in 2011 and 2012 and have been manually combined for comparison purposes.

Residential and non-residential criteria are provided for comparison purposes. Soil Vapor Probes VP-3 through VP-6 are compared only to deep soil gas non-residential criteria due to the location of the probes (large commercial/industrial building, greater than 5 feet below the nearest building foundation).

100 Result exceeds the Wisconsin Residential Deep Soil Gas Calculated Screening Level with a 0.01 attenuation factor

100 Result exceeds the Wisconsin Non-Residential Deep Soil Gas Calculated Screening Level with a 0.001 attenuation factor

< Constituent not detected above noted laboratory detection limit.

-- Not designated.

*D Limit of detection not achievable due to dilution.

*IS The internal standard quality control limit is exceeded.

DUP Duplicate sample.

NE Not Established.

VOC Volatile Organic Compound

Table 4-4. Summary of Soil Vapor Probe Analytical Results 2009 - 2013, Madison-Kipp Corporation, Madison, Wisconsin.

Sample Name Sample Date	VP-6			VP-102		VP-114			VP-126		
	03/30/12	10/26/12	04/29/13	11/25/11	10/24/12	11/25/11	10/24/12	07/15/13	11/25/11	10/24/12	07/15/13
VOC											
cis-1,2-Dichloroethene	28	190	2,100	1,940 *IS	45	<400 *IS*D	<0.16	<0.15	<200 *D	<0.16	<0.16
trans-1,2-Dichloroethene	1.7	5.8	82	<400 *IS*D	<3.4	<400 *IS*D	<0.16	<0.15	<200 *D	<0.16	<0.16
1,2-Dichloroethene**	29.7	195.8	2,182	1940	45	<400	<0.16	<0.15	<200	<0.16	<0.16
Tetrachloroethene	63	190	2,900	4,620 *IS	1,200	2,540 *IS	10	24	452	1.4	4.4
Trichloroethene	20	72	1,100	1,770 *IS	240	<400 *IS*D	<0.16	<0.15	<200 *D	<0.16	<0.16
Vinyl Chloride	53	23	130	<400 *IS*D	<3.4	<400 *IS*D	<0.16	<0.15	<200 *D	<0.16	<0.16

All units presented in parts per billion by volume (ppbv).

1 Screening Levels were calculated in accordance with Section VI A 1 of *Addressing Vapor Intrusion at Remediation and Redevelopment Sites in Wisconsin* (WDNR, 2010), accessed at: <http://dnr.wi.gov/files/PDF/pubs/rr/RR800.pdf>

2 For non-residential, the following attenuation factor was used: 0.001 for deep soil gas to indoor air [Section VI A 3 of WDNR (2010)].
For residential, the following attenuation factor was used: 0.01 for deep soil gas to indoor air [Section VI A 2 of WDNR (2010)].

** The compound 1,2-Dichloroethene was reported in 2009. The compounds cis- and trans-1,2-Dichloroethene were reported in 2011 and 2012 and have been manually combined for comparison purposes.

Residential and non-residential criteria are provided for comparison purposes. Soil Vapor Probes VP-3 through VP-6 are compared only to deep soil gas non-residential criteria due to the location of the probes (large commercial/industrial building, greater than 5 feet below the nearest building foundation).

100 Result exceeds the Wisconsin Residential Deep Soil Gas Calculated Screening Level with a 0.01 attenuation factor
100 Result exceeds the Wisconsin Non-Residential Deep Soil Gas Calculated Screening Level with a 0.001 attenuation factor

< Constituent not detected above noted laboratory detection limit.

-- Not designated.

*D Limit of detection not achievable due to dilution.

*IS The internal standard quality control limit is exceeded.

DUP Duplicate sample.

NE Not Established.

VOC Volatile Organic Compound

Table 4-4. Summary of Soil Vapor Probe Analytical Results 2009 - 2013, Madison-Kipp Corporation, Madison, Wisconsin.

Sample Name Sample Date	VP-202			VP-210			VP-222			VP-237		
	11/25/11	10/24/12	07/16/13	11/25/11	10/25/12	07/16/13	11/25/11	10/25/12	07/16/13	11/25/11	10/25/12	07/17/13
VOC												
cis-1,2-Dichloroethene	<0.085 *IS	<0.16	<0.16	<0.085 *IS	<0.17	<0.15	<20 *D	<0.49	<0.92	<20	<0.16	<0.16
trans-1,2-Dichloroethene	<0.085 *IS	<0.16	<0.16	<0.085 *IS	<0.17	<0.15	<20 *D	<0.49	<0.92	<20	<0.16	<0.16
1,2-Dichloroethene**	<0.085	<0.16	<0.16	<0.085	<0.17	<0.15	<20	<0.49	<0.92	<20	<0.16	<0.16
Tetrachloroethene	5.7 *IS	9.1	8	3.22	3.9	3.6	77	120	280	53	63	30
Trichloroethene	<0.085 *IS	0.58	<0.16	<0.085 *IS	<0.17	0.26	<20 *D	<0.49	<0.92	<20	<0.16	<0.16
Vinyl Chloride	<0.085 *IS	<0.16	<0.16	<0.085 *IS	<0.17	<0.15	<20 *D	<0.49	<0.92	<20	<0.16	<0.16

All units presented in parts per billion by volume (ppbv).

1 Screening Levels were calculated in accordance with Section VI A 1 of *Addressing Vapor Intrusion at Remediation and Redevelopment Sites in Wisconsin* (WDNR, 2010), accessed at: <http://dnr.wi.gov/files/PDF/pubs/rr/RR800.pdf>

2 For non-residential, the following attenuation factor was used: 0.001 for deep soil gas to indoor air [Section VI A 3 of WDNR (2010)].
For residential, the following attenuation factor was used: 0.01 for deep soil gas to indoor air [Section VI A 2 of WDNR (2010)].

** The compound 1,2-Dichloroethene was reported in 2009. The compounds cis- and trans-1,2-Dichloroethene were reported in 2011 and 2012 and have been manually combined for comparison purposes.

Residential and non-residential criteria are provided for comparison purposes. Soil Vapor Probes VP-3 through VP-6 are compared only to deep soil gas non-residential criteria due to the location of the probes (large commercial/industrial building, greater than 5 feet below the nearest building foundation).

- 100 Result exceeds the Wisconsin Residential Deep Soil Gas Calculated Screening Level with a 0.01 attenuation factor
- 100 Result exceeds the Wisconsin Non-Residential Deep Soil Gas Calculated Screening Level with a 0.001 attenuation factor
- < Constituent not detected above noted laboratory detection limit.
- Not designated.
- *D Limit of detection not achievable due to dilution.
- *IS The internal standard quality control limit is exceeded.
- DUP Duplicate sample.
- NE Not Established.
- VOC Volatile Organic Compound

Table 4-4. Summary of Soil Vapor Probe Analytical Results 2009 - 2013, Madison-Kipp Corporation, Madison, Wisconsin.

Sample Name Sample Date	VP-249			VP-261	
	11/25/11	10/25/12	07/17/13	11/28/11	07/17/13
VOC					
cis-1,2-Dichloroethene	<0.085	<0.16	<0.14	<0.085 *IS	<0.15
trans-1,2-Dichloroethene	<0.085	<0.16	<0.14	<0.085 *IS	<0.15
1,2-Dichloroethene**	<0.085	<0.16	<0.14	<0.085	<0.15
Tetrachloroethene	8.44	23	3.3	<0.085 *IS	1.2
Trichloroethene	<0.085	<0.16	<0.14	<0.085 *IS	<0.15
Vinyl Chloride	<0.085	<0.16	<0.14	<0.085 *IS	<0.15

All units presented in parts per billion by volume (ppbv).

1 Screening Levels were calculated in accordance with Section VI A 1 of *Addressing Vapor Intrusion at Remediation and Redevelopment Sites in Wisconsin* (WDNR, 2010), accessed at: <http://dnr.wi.gov/files/PDF/pubs/rr/RR800.pdf>

2 For non-residential, the following attenuation factor was used: 0.001 for deep soil gas to indoor air [Section VI A 3 of WDNR (2010)].
For residential, the following attenuation factor was used: 0.01 for deep soil gas to indoor air [Section VI A 2 of WDNR (2010)].

** The compound 1,2-Dichloroethene was reported in 2009. The compounds cis- and trans-1,2-Dichloroethene were reported in 2011 and 2012 and have been manually combined for comparison purposes.

Residential and non-residential criteria are provided for comparison purposes. Soil Vapor Probes VP-3 through VP-6 are compared only to deep soil gas non-residential criteria due to the location of the probes (large commercial/industrial building, greater than 5 feet below the nearest building foundation).

- 100 Result exceeds the Wisconsin Residential Deep Soil Gas Calculated Screening Level with a 0.01 attenuation factor
- 100 Result exceeds the Wisconsin Non-Residential Deep Soil Gas Calculated Screening Level with a 0.001 attenuation factor
- < Constituent not detected above noted laboratory detection limit.
- Not designated.
- *D Limit of detection not achievable due to dilution.
- *IS The internal standard quality control limit is exceeded.
- DUP Duplicate sample.
- NE Not Established.
- VOC Volatile Organic Compound