

**Table 1. Summary of Soil Vapor Probe Analytical Results - 2009 through 2014, Madison-Kipp Corporation, Madison, Wisconsin.**

Sample Name Sample Date	Calculated Screening Levels <sup>1,2</sup>		VP-1N				VP-1S			
	Deep Soil Gas Non-Residential	Deep Soil Gas Residential	09/17/09	10/26/12	07/15/13	1/29/14	09/17/09	10/26/12	07/15/13	1/29/14
	<b>VOC</b>									
cis-1,2-Dichloroethene	NE	NE	--	0.52	2.6	<0.14	--	<0.15	0.26	<0.14
trans-1,2-Dichloroethene	65,604	1,590	--	<0.36	<0.26	<0.14	--	<0.15	<0.16	<0.14
1,2-Dichloroethene**	NE	NE	<20	0.52	2.6	<0.14	341	<0.15	0.26	<0.14
Tetrachloroethene	26,512	619	160	65	76	<0.14	1,400	4.8	33	0.9
Trichloroethene	1,642	39	<10	0.52	1.1	<0.14	260	0.15	0.44	<0.14
Vinyl Chloride	10,954	63	--	<0.36	<0.26	<0.14	--	<0.15	<0.16	<0.14

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 1. Summary of Soil Vapor Probe Analytical Results - 2009 through 2014, Madison-Kipp Corporation, Madison, Wisconsin.**

Sample Name Sample Date	VP-2N				VP-2S				VP-3		VP-3 DUP
	09/17/09	10/26/12	07/15/13	1/29/14	09/17/09	10/26/12	07/15/13	1/29/14	03/30/12	10/26/12	10/26/12
<b>VOC</b>											
cis-1,2-Dichloroethene	--	<0.93	2.5	<0.14	--	<0.14	0.54	0.36	0.6	<0.16	<0.15
trans-1,2-Dichloroethene	--	<0.93	<0.39	<0.14	--	<0.14	<0.31	<0.14	<0.17	<0.16	<0.15
1,2-Dichloroethene**	500	<0.93	2.5	<0.14	332	<0.14	0.54	NA	0.6	<0.16	<0.15
Tetrachloroethene	1,300	160	110	<0.14	1,100	12	86	44	18	3.2	3.8
Trichloroethene	370	<0.93	1.4	<0.14	240	<0.14	0.38	0.22	2	0.36	0.44
Vinyl Chloride	--	<0.93	<0.39	<0.14	--	<0.14	<0.31	<0.14	<0.17	<0.16	<0.15

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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

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DUP Duplicate sample.

NE Not Established.

VOC Volatile Organic Compound

**Table 1. Summary of Soil Vapor Probe Analytical Results - 2009 through 2014, Madison-Kipp Corporation, Madison, Wisconsin.**

Sample Name Sample Date	VP-4		VP-5		VP-6				VP-102		
	03/30/12	10/26/12	03/30/12	10/26/12	03/30/12	10/26/12	04/29/13	1/29/14	11/25/11	10/24/12	1/29/14
<b>VOC</b>											
cis-1,2-Dichloroethene	<0.15	<0.15	1.1	26	28	190	2,100	310	1,940 *IS	45	0.56
trans-1,2-Dichloroethene	<0.15	<0.15	<0.15	0.38	1.7	5.8	82	16	<400 *IS*D	<3.4	<0.14
1,2-Dichloroethene**	<0.15	<0.15	1.1	26.38	29.7	195.8	2,182	326	1940	45	0.56
Tetrachloroethene	0.68	0.2	2.1	27	63	190	2,900	550	4,620 *IS	1,200	2
Trichloroethene	<0.15	<0.15	1.1	22	20	72	1,100	240	1,770 *IS	240	1.2
Vinyl Chloride	<0.15	<0.15	<0.15	1.2	53	23	130	28	<400 *IS*D	<3.4	<0.14

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\*\* 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.

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VOC Volatile Organic Compound

**Table 1. Summary of Soil Vapor Probe Analytical Results - 2009 through 2014, Madison-Kipp Corporation, Madison, Wisconsin.**

Sample Name Sample Date	VP-114				VP-126				VP-202			
	11/25/11	10/24/12	07/15/13	1/29/14	11/25/11	10/24/12	07/15/13	1/29/14	11/25/11	10/24/12	07/16/13	1/30/14
<b>VOC</b>												
cis-1,2-Dichloroethene	<400 *IS*D	<0.16	<0.15	<0.14	<200 *D	<0.16	<0.16	<0.14	<0.085 *IS	<0.16	<0.16	<0.14
trans-1,2-Dichloroethene	<400 *IS*D	<0.16	<0.15	<0.14	<200 *D	<0.16	<0.16	<0.14	<0.085 *IS	<0.16	<0.16	<0.14
1,2-Dichloroethene**	<400	<0.16	<0.15	<0.14	<200	<0.16	<0.16	<0.14	<0.085	<0.16	<0.16	<0.14
Tetrachloroethene	2,540 *IS	10	24	<0.14	452	1.4	4.4	<0.14	5.7 *IS	9.1	8	1.5
Trichloroethene	<400 *IS*D	<0.16	<0.15	<0.14	<200 *D	<0.16	<0.16	<0.14	<0.085 *IS	0.58	<0.16	<0.14
Vinyl Chloride	<400 *IS*D	<0.16	<0.15	<0.14	<200 *D	<0.16	<0.16	<0.14	<0.085 *IS	<0.16	<0.16	<0.14

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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.

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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

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VOC Volatile Organic Compound

**Table 1. Summary of Soil Vapor Probe Analytical Results - 2009 through 2014, Madison-Kipp Corporation, Madison, Wisconsin.**

Sample Name Sample Date	VP-210				VP-222				VP-237			
	11/25/11	10/25/12	07/16/13	1/30/14	11/25/11	10/25/12	07/16/13	1/30/14	11/25/11	10/25/12	07/17/13	1/30/14
<b>VOC</b>												
cis-1,2-Dichloroethene	<0.085 *IS	<0.17	<0.15	<0.14	<20 *D	<0.49	<0.92	<0.14	<20	<0.16	<0.16	<0.14
trans-1,2-Dichloroethene	<0.085 *IS	<0.17	<0.15	<0.14	<20 *D	<0.49	<0.92	<0.14	<20	<0.16	<0.16	<0.14
1,2-Dichloroethene**	<0.085	<0.17	<0.15	<0.14	<20	<0.49	<0.92	<0.14	<20	<0.16	<0.16	<0.14
Tetrachloroethene	3.22	3.9	3.6	<0.14	77	120	280	22	53	63	30	3.6
Trichloroethene	<0.085 *IS	<0.17	0.26	<0.14	<20 *D	<0.49	<0.92	<0.14	<20	<0.16	<0.16	<0.14
Vinyl Chloride	<0.085 *IS	<0.17	<0.15	<0.14	<20 *D	<0.49	<0.92	<0.14	<20	<0.16	<0.16	<0.14

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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.

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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

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DUP Duplicate sample.

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VOC Volatile Organic Compound

**Table 1. Summary of Soil Vapor Probe Analytical Results - 2009 through 2014, 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	1/30/14
<b>VOC</b>						
cis-1,2-Dichloroethene	<0.085	<0.16	<0.14	<0.085 *IS	<0.15	<0.13
trans-1,2-Dichloroethene	<0.085	<0.16	<0.14	<0.085 *IS	<0.15	<0.13
1,2-Dichloroethene**	<0.085	<0.16	<0.14	<0.085	<0.15	<0.13
Tetrachloroethene	8.44	23	3.3	<0.085 *IS	1.2	1.2
Trichloroethene	<0.085	<0.16	<0.14	<0.085 *IS	<0.15	<0.13
Vinyl Chloride	<0.085	<0.16	<0.14	<0.085 *IS	<0.15	<0.13

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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.

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VOC Volatile Organic Compound