

**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	7/22/14	09/17/09	10/26/12	07/15/13	1/29/14	7/22/14
	<b>VOC</b>											
cis-1,2-Dichloroethene	NE	NE	--	0.52	2.6	<0.14	< 0.17	--	<0.15	0.26	<0.14	0.19
trans-1,2-Dichloroethene	65,604	1,590	--	<0.36	<0.26	<0.14	< 0.17	--	<0.15	<0.16	<0.14	< 0.16
1,2-Dichloroethene**	NE	NE	<20	0.52	2.6	<0.14	< 0.17	341	<0.15	0.26	<0.14	0.19
Tetrachloroethene	26,512	619	160	65	76	<0.14	1.8	1,400	4.8	33	0.9	4.7
Trichloroethene	1,642	39	<10	0.52	1.1	<0.14	< 0.17	260	0.15	0.44	<0.14	0.21
Vinyl Chloride	10,954	63	--	<0.36	<0.26	<0.14	< 0.17	--	<0.15	<0.16	<0.14	< 0.16

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	
	09/17/09	10/26/12	07/15/13	1/29/14	7/22/2014	09/17/09	10/26/12	07/15/13	1/29/14	7/22/2014	03/30/12	10/26/12
<b>VOC</b>												
cis-1,2-Dichloroethene	--	<0.93	2.5	<0.14	< 0.18	--	<0.14	0.54	0.36	0.19	0.6	<0.16
trans-1,2-Dichloroethene	--	<0.93	<0.39	<0.14	< 0.18	--	<0.14	<0.31	<0.14	< 0.15	<0.17	<0.16
1,2-Dichloroethene**	500	<0.93	2.5	<0.14	< 0.18	332	<0.14	0.54	NA	0.19	0.6	<0.16
Tetrachloroethene	1,300	160	110	<0.14	1.5	1,100	12	86	44	2.0	18	3.2
Trichloroethene	370	<0.93	1.4	<0.14	< 0.18	240	<0.14	0.38	0.22	< 0.15	2	0.36
Vinyl Chloride	--	<0.93	<0.39	<0.14	< 0.18	--	<0.14	<0.31	<0.14	< 0.15	<0.17	<0.16

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

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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-3 DUP		VP-4			VP-5			VP-6				
	10/26/12	7/22/14	03/30/12	10/26/12	7/23/14	03/30/12	10/26/12	7/22/14	03/30/12	10/26/12	04/29/13	1/29/14	7/22/14
<b>VOC</b>													
cis-1,2-Dichloroethene	<0.15	0.58	<0.15	<0.15	0.27	1.1	26	2.6	28	190	2,100	310	1.0
trans-1,2-Dichloroethene	<0.15	< 0.17	<0.15	<0.15	< 0.16	<0.15	0.38	< 0.17	1.7	5.8	82	16	< 0.16
1,2-Dichloroethene**	<0.15	0.58	<0.15	<0.15	0.27	1.1	26.38	2.6	29.7	195.8	2,182	326	1.0
Tetrachloroethene	3.8	25	0.68	0.2	< 0.16	2.1	27	0.59	63	190	2,900	550	< 0.16
Trichloroethene	0.44	3.6	<0.15	<0.15	< 0.16	1.1	22	2.4	20	72	1,100	240	0.34
Vinyl Chloride	<0.15	< 0.17	<0.15	<0.15	< 0.16	<0.15	1.2	0.38	53	23	130	28	< 0.16

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

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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.
- \*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-102				VP-114					VP-126		
	11/25/11	10/24/12	1/29/14	7/23/14	11/25/11	10/24/12	07/15/13	1/29/14	7/23/14	11/25/11	10/24/12	07/15/13
<b>VOC</b>												
cis-1,2-Dichloroethene	1,940 *IS	45	0.56	< 0.16	<400 *IS*D	<0.16	<0.15	<0.14	< 0.16	<200 *D	<0.16	<0.16
trans-1,2-Dichloroethene	<400 *IS*D	<3.4	<0.14	< 0.16	<400 *IS*D	<0.16	<0.15	<0.14	< 0.16	<200 *D	<0.16	<0.16
1,2-Dichloroethene**	1940	45	0.56	< 0.16	<400	<0.16	<0.15	<0.14	< 0.16	<200	<0.16	<0.16
Tetrachloroethene	4,620 *IS	1,200	2	0.17	2,540 *IS	10	24	<0.14	2.9	452	1.4	4.4
Trichloroethene	1,770 *IS	240	1.2	< 0.16	<400 *IS*D	<0.16	<0.15	<0.14	< 0.16	<200 *D	<0.16	<0.16
Vinyl Chloride	<400 *IS*D	<3.4	<0.14	< 0.16	<400 *IS*D	<0.16	<0.15	<0.14	< 0.16	<200 *D	<0.16	<0.16

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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.
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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-126 (continued)		VP-202				VP-210					VP-222	
	1/29/14	7/23/14	11/25/11	10/24/12	07/16/13	1/30/14	11/25/11	10/25/12	07/16/13	1/30/14	7/23/2014	11/25/11	10/25/12
<b>VOC</b>													
cis-1,2-Dichloroethene	<0.14	< 0.17	<0.085 *IS	<0.16	<0.16	<0.14	<0.085 *IS	<0.17	<0.15	<0.14	< 0.17	<20 *D	<0.49
trans-1,2-Dichloroethene	<0.14	< 0.17	<0.085 *IS	<0.16	<0.16	<0.14	<0.085 *IS	<0.17	<0.15	<0.14	< 0.17	<20 *D	<0.49
1,2-Dichloroethene**	<0.14	< 0.17	<0.085	<0.16	<0.16	<0.14	<0.085	<0.17	<0.15	<0.14	< 0.17	<20	<0.49
Tetrachloroethene	<0.14	0.48	5.7 *IS	9.1	8	1.5	3.22	3.9	3.6	<0.14	5.4	77	120
Trichloroethene	<0.14	< 0.17	<0.085 *IS	0.58	<0.16	<0.14	<0.085 *IS	<0.17	0.26	<0.14	< 0.17	<20 *D	<0.49
Vinyl Chloride	<0.14	< 0.17	<0.085 *IS	<0.16	<0.16	<0.14	<0.085 *IS	<0.17	<0.15	<0.14	< 0.17	<20 *D	<0.49

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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
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- Not designated.
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Sample Name Sample Date	VP-222 (continued)			VP-237					VP-249		
	07/16/13	1/30/14	07/23/14	11/25/11	10/25/12	07/17/13	1/30/14	07/23/14	11/25/11	10/25/12	07/17/13
<b>VOC</b>											
cis-1,2-Dichloroethene	<0.92	<0.14	< 0.89	<20	<0.16	<0.16	<0.14	< 0.33	<0.085	<0.16	<0.14
trans-1,2-Dichloroethene	<0.92	<0.14	< 0.89	<20	<0.16	<0.16	<0.14	< 0.33	<0.085	<0.16	<0.14
1,2-Dichloroethene**	<0.92	<0.14	< 0.89	<20	<0.16	<0.16	<0.14	< 0.33	<0.085	<0.16	<0.14
Tetrachloroethene	280	22	150	53	63	30	3.6	59	8.44	23	3.3
Trichloroethene	<0.92	<0.14	< 0.89	<20	<0.16	<0.16	<0.14	< 0.33	<0.085	<0.16	<0.14
Vinyl Chloride	<0.92	<0.14	< 0.89	<20	<0.16	<0.16	<0.14	< 0.33	<0.085	<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.

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).

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- 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-261			VP-261 DUP	
	11/28/11	07/17/13	1/30/14	7/23/14	7/23/14
<b>VOC</b>					
cis-1,2-Dichloroethene	<0.085 *IS	<0.15	<0.13	< 0.16	< 0.16
trans-1,2-Dichloroethene	<0.085 *IS	<0.15	<0.13	< 0.16	< 0.16
1,2-Dichloroethene**	<0.085	<0.15	<0.13	< 0.16	< 0.16
Tetrachloroethene	<0.085 *IS	1.2	1.2	5.0	4.3
Trichloroethene	<0.085 *IS	<0.15	<0.13	< 0.16	< 0.16
Vinyl Chloride	<0.085 *IS	<0.15	<0.13	< 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