

Table 1. Summary Soil Vapor Probe Analytical Results - 2009 through 2012, Madison-Kipp Corporation, Madison, Wisconsin.

Sample Name Sample Date	Calculated Screening Levels ^{1,2}		VP-1N		VP-1S		VP-2N		VP-2S	
	Deep Soil Gas	Deep Soil Gas								
	Non-Residential	Residential	09/17/09	10/26/12	09/17/09	10/26/12	09/17/09	10/26/12	09/17/09	10/26/12
VOC										
cis-1,2-Dichloroethene	NE	NE	--	0.52	--	<0.15	--	<0.93	--	<0.14
trans-1,2-Dichloroethene	65,604	1,590	--	<0.36	--	<0.15	--	<0.93	--	<0.14
1,2-Dichloroethene**	NE	NE	<20	0.52	341	<0.15	500	<0.93	332	<0.14
Tetrachloroethene	26,512	619	160	65	1,400	4.8	1,300	160	1,100	12
Trichloroethene	1,642	39	<10	0.52	260	0.15	370	<0.93	240	<0.14
Vinyl Chloride	10,954	63	--	<0.36	--	<0.15	--	<0.93	--	<0.14

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

Notes

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

- *D Limit of detection not achievable due to dilution.
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Sample Name Sample Date	VP-3		VP-3 DUP	VP-4		VP-5		VP-6		VP-102	
	03/30/12	10/26/12	10/26/12	03/30/12	10/26/12	03/30/12	10/26/12	03/30/12	10/26/12	11/25/11	10/24/12
VOC											
cis-1,2-Dichloroethene	0.6	<0.16	<0.15	<0.15	<0.15	1.1	26	28	190	1,940 *IS	45
trans-1,2-Dichloroethene	<0.17	<0.16	<0.15	<0.15	<0.15	<0.15	0.38	1.7	5.8	<400 *IS*D	<3.4
1,2-Dichloroethene**	0.6	<0.16	<0.15	<0.15	<0.15	1.1	26.38	29.7	195.8	1940	45
Tetrachloroethene	18	3.2	3.8	0.68	0.2	2.1	27	63	190	4,620 *IS	1,200
Trichloroethene	2	0.36	0.44	<0.15	<0.15	1.1	22	20	72	1,770 *IS	240
Vinyl Chloride	<0.17	<0.16	<0.15	<0.15	<0.15	<0.15	1.2	53	23	<400 *IS*D	<3.4

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Sample Name Sample Date	VP-114		VP-126		VP-202		VP-210		VP-222	
	11/25/11	10/24/12	11/25/11	10/24/12	11/25/11	10/24/12	11/25/11	10/25/12	11/25/11	10/25/12
VOC										
cis-1,2-Dichloroethene	<400 *IS*D	<0.16	<200 *D	<0.16	<0.085 *IS	<0.16	<0.085 *IS	<0.17	<20 *D	<0.49
trans-1,2-Dichloroethene	<400 *IS*D	<0.16	<200 *D	<0.16	<0.085 *IS	<0.16	<0.085 *IS	<0.17	<20 *D	<0.49
1,2-Dichloroethene**	<400	<0.16	<200	<0.16	<0.085	<0.16	<0.085	<0.17	<20	<0.49
Tetrachloroethene	2,540 *IS	10	452	1.4	5.7 *IS	9.1	3.22	3.9	77	120
Trichloroethene	<400 *IS*D	<0.16	<200 *D	<0.16	<0.085 *IS	0.58	<0.085 *IS	<0.17	<20 *D	<0.49
Vinyl Chloride	<400 *IS*D	<0.16	<200 *D	<0.16	<0.085 *IS	<0.16	<0.085 *IS	<0.17	<20 *D	<0.49

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Sample Name Sample Date	VP-237		VP-249		VP-261
	11/25/11	10/25/12	11/25/11	10/25/12	11/28/11
VOC					
cis-1,2-Dichloroethene	<20	<0.16	<0.085	<0.16	<0.085 *IS
trans-1,2-Dichloroethene	<20	<0.16	<0.085	<0.16	<0.085 *IS
1,2-Dichloroethene**	<20	<0.16	<0.085	<0.16	<0.085
Tetrachloroethene	53	63	8.44	23	<0.085 *IS
Trichloroethene	<20	<0.16	<0.085	<0.16	<0.085 *IS
Vinyl Chloride	<20	<0.16	<0.085	<0.16	<0.085 *IS

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