

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

Sample Name Sample Date	Calculated Screening Levels ^{1,2}		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
	VOC											
cis-1,2-Dichloroethene	NE	NE	--	0.52	2.6	<0.14	< 0.17	--	<0.15	0.26	<0.14	0.19
trans-1,2-Dichloroethene	65,604	1,590	--	<0.36	<0.26	<0.14	< 0.17	--	<0.15	<0.16	<0.14	< 0.16
1,2-Dichloroethene**	NE	NE	<20	0.52	2.6	<0.14	< 0.17	341	<0.15	0.26	<0.14	0.19
Tetrachloroethene	26,512	619	160	65	76	<0.14	1.8	1,400	4.8	33	0.9	4.7
Trichloroethene	1,642	39	<10	0.52	1.1	<0.14	< 0.17	260	0.15	0.44	<0.14	0.21
Vinyl Chloride	10,954	63	--	<0.36	<0.26	<0.14	< 0.17	--	<0.15	<0.16	<0.14	< 0.16

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
VOC												
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).

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-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
VOC													
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).

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-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
VOC												
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

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-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
VOC													
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

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-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
VOC											
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

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-261			VP-261 DUP	
	11/28/11	07/17/13	1/30/14	7/23/14	7/23/14
VOC					
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

Table 1. Office Indoor Air Analytical Results, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin.

Sample Name Sample Date	Wisconsin Vapor	Calculated						
	Action Level ^{1,2}	Screening Level ³						
	Non-Residential Indoor Air	Non-Residential Sub-Slab	AA-01			CS-01	CS-02	IA-01
			12/13/2013	1/24/2014	7/18/2014	12/13/2013	12/13/2013	12/13/2013
VOCs								
cis-1,2-Dichloroethene	NE	NE	<0.03	<0.032	< 0.034	<0.035	<0.033	<0.035
trans-1,2-Dichloroethene	65	6,500	<0.15	<0.16	< 0.017	<0.17	<0.17	<0.17
Trichloroethene	1.6	160	<0.03	<0.032	< 0.034	<0.035	<0.033	<0.035
Tetrachloroethene	27	2,700	<0.03	<0.032	< 0.034	0.24	0.11	<0.035
Vinyl Chloride	11	1,100	<0.015	<0.016	< 0.017	<0.017	<0.017	<0.017

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

100 Exceeds the Wisconsin Vapor Action Level for Non-Residential Indoor Air.

100 Exceeds the Calculated Screening Level for Non-Residential Sub-Slab Vapor.

< Constituent not detected above noted laboratory detection limit.

1 Wisconsin Vapor Action Levels are the lower of the United States Environmental Protection Agency (U.S. EPA) Residential Screening Levels (RSLs) based on either a target cancer risk of 10⁻⁵ or a noncancer HQ of 1, and are presented in WDNR's *Indoor Air Vapor Action Levels for Various VOCs* (November 2013).

2 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>.

3 For large commercial/industrial buildings, the following attenuation factor was used: 0.01 for sub-slab vapor to indoor air [Section VI A 2 of WDNR (2010)].

AA Ambient Air Sample.

CS Crawlspace Sample.

IA Indoor Air Sample.

NE Not Established.

VOC Volatile organic compound.

Table 1. Office Indoor Air Analytical Results, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin.

Sample Name Sample Date	IA-02	IA-03	IA-04	IA-05		
	12/13/2013	12/13/2013	12/13/2013	12/13/2013	1/24/2014	7/18/2014
VOCs						
cis-1,2-Dichloroethene	<0.035	<0.033	0.074	0.47	0.059	0.035
trans-1,2-Dichloroethene	<0.18	<0.17	<0.17	<0.16	<0.16	< 0.17
Trichloroethene	<0.035	<0.033	0.3	3	0.28	0.26
Tetrachloroethene	<0.035	0.14	5.8	21	2.0	1.7
Vinyl Chloride	<0.018	<0.017	<0.017	<0.016	<0.016	0.024

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

- 100 Exceeds the Wisconsin Vapor Action Level for Non-Residential Indoor Air.
- 100 Exceeds the Calculated Screening Level for Non-Residential Sub-Slab Vapor.
- < Constituent not detected above noted laboratory detection limit.
- 1 Wisconsin Vapor Action Levels are the lower of the United States Environmental Protection Agency (U.S. EPA) Residential Screening Levels (RSLs) based on either a target cancer risk of 10⁻⁵ or a noncancer HQ of 1, and are presented in WDNR's *Indoor Air Vapor Action Levels for Various VOCs* (November 2013).
- 2 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>.
- 3 For large commercial/industrial buildings, the following attenuation factor was used: 0.01 for sub-slab vapor to indoor air [Section VI A 2 of WDNR (2010)].
- AA Ambient Air Sample.
- CS Crawlspace Sample.
- IA Indoor Air Sample.
- NE Not Established.
- VOC Volatile organic compound.

DNR Residential Vapor Intrusion Testing

Results for Tetrachloroethylene (PCE) Only

Address	Sample Type	Date	Date 2	Date3	Date4	Date5	Date6
		week 4/9-4/13	week 4/23-4/27	week 5/14-5/18	week 6/4-6/8	week 7/2-7/6	week 7/9-7/13
113 S. Marquette Street	Indoor		ND			0.336	
KIPP SPLIT Sample	Indoor		ND				
	Sub-slab		0.3			0.228	
KIPP SPLIT Sample	Sub-slab		ND				
123 S. Marquette Street	Indoor		0.227			0.264	
KIPP SPLIT Sample	Indoor		ND				
	Sub-slab		0.715			1.64	
KIPP SPLIT Sample	Sub-slab		0.54				
	Indoor						
146 S. Marquette Street	Indoor			ND			
	Sub-slab						
147 S. Marquette Street	Indoor	ND					
	Sub-slab	ND					
151 S. Marquette Street	Indoor		ND				
	Sub-slab		0.283				
166 S. Marquette Street	Indoor		0.17				
	KIPP SPLIT Sample		ND				
	Sub-slab						
201 S. Marquette Street	Indoor			ND		ND	
	Sub-slab			5.36		0.351	
202 S. Marquette Street	Indoor		ND			ND	
	Sub-slab		4.46			7.44	
203 S. Marquette Street	Indoor			ND		ND	
	Sub-slab			2.33		0.252	
206 S. Marquette Street	Indoor		ND			0.483	
	Sub-slab		0.465			0.678	
Duplicate	Sub-slab		0.469				
209 S. Marquette Street	Indoor	ND				ND	
	Sub-slab	0.256				0.695	
210 S. Marquette Street	Indoor				ND		
	Sub-slab				1.5		
214 S. Marquette Street	Indoor						
	Sub-slab						
218 S. Marquette Street	Indoor	ND				ND	
	Sub-slab	0.518				0.753	
222 S. Marquette Street	Indoor		ND				
	Sub-slab		0.356				
226 S. Marquette Street	Indoor						ND
	Sub-slab						0.415

All results in parts-per-billion by volume (ppbv)

ND: Not Detected

DNR Residential Vapor Intrusion Testing

Results for Tetrachloroethylene (PCE) Only

Address	Sample Type	Date	Date 2	Date3	Date4	Date5	Date6
		week 4/9-4/13	week 4/23-4/27	week 5/14-5/18	week 6/4-6/8	week 7/2-7/6	week 7/9-7/13
230 Waubesa Street	Indoor	ND			0.125		
	Sub-slab	0.155			1.27		
233 Waubesa Street	Indoor	0.307			0.376		
	Sub-slab	0.502			1.45		
234 Waubesa Street	Indoor		0.297		0.182		
	Sub-slab		0.385		0.781		
237 Waubesa Street	Indoor						
	Sub-slab						
241 Waubesa Street	Indoor	ND			ND		
	Sub-slab	2.67			4.01		
242 Waubesa Street	Indoor				ND		
	Sub-slab				0.35		
Duplicate	Sub-slab				0.208		
245 Waubesa Street	Indoor			0.524			
	Sub-slab			9.22			
Duplicate	Sub-slab			9.23			
249 Waubesa Street	Indoor		ND		5.88		
	Sub-slab		3.47		5.99		
250 Waubesa Street	Indoor		ND		ND		
	Sub-slab		0.324		0.525		
253 Waubesa Street	Indoor	0.099			ND		
	Sub-slab	4.9			5.6		
257 Waubesa Street	Indoor	0.107					
	Sub-slab	9.99					
266 Waubesa Street	Indoor			ND	1.31		
	Sub-slab			2.54	3.97		
2902 Fairview Street	Indoor	0.119				ND	
	Sub-slab	0.186				0.183	
Duplicate	Indoor					ND	
166 Dixon Street	Indoor						ND
	Sub-slab						0.11
174 Dixon Street	Indoor	ND					
	Sub-slab	ND					
194 Dixon Street	Indoor						ND
	Sub-slab						0.345
218 Dixon Street	Indoor						ND
	Sub-slab						0.147

All results in parts-per-billion by volume (ppbv)

ND: Not Detected

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	09/17/09	10/26/12	09/17/09	10/26/12	09/17/09	10/26/12	09/17/09	10/26/12
	Non-Residential	Residential								
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.
- *IS The internal standard QC limit is exceeded.
- DUP Duplicate sample
- NE Not Established
- VOC Volatile organic compound

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

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

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.

*IS The internal standard QC limit is exceeded.

DUP Duplicate sample

NE Not Established

VOC Volatile organic compound

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

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

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.
- *IS The internal standard QC limit is exceeded.
- DUP Duplicate sample
- NE Not Established
- VOC Volatile organic compound

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

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

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)].

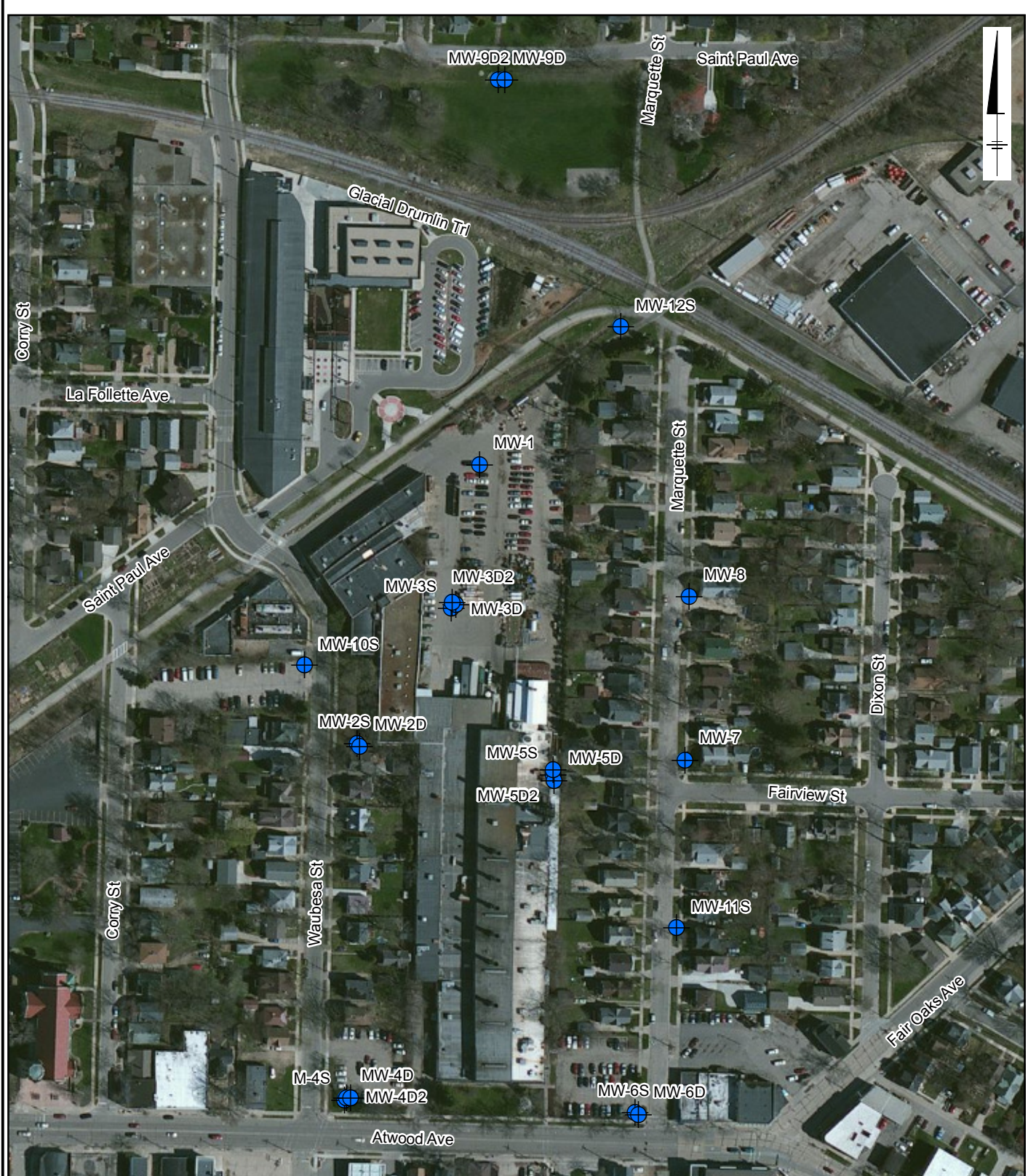
For residential, the following attenuation factor was used: 0.01 for deep soil gas to indoor air [Section VI A 2 of WDNR (2010)].

**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.
- *IS The internal standard QC limit is exceeded.
- DUP Duplicate sample
- NE Not Established
- VOC Volatile organic compound



CITY: MPLS DIV/GROUP: IM DB: MG LD: CK
 MADISON-KIPP
 Path: G:\GIS\Projects\Madison_Kipp\ArcMap\Site_Locs_20120503.mxd

LEGEND:

 MONITORING WELL

0 100 200
 Feet
 GRAPHIC SCALE

NOTE:
 AERIAL IMAGERY OBTAINED FROM BING IMAGERY SERVICE
 THROUGH ESRI ONLINE MAPPING, ACCESSED 5/3/2012.

MADISON-KIPP
 201 WAUBESA STREET
 MADISON, WI

MONITORING WELL LOCATIONS

 **ARCADIS**

FIGURE 1

Summary of Groundwater Analytical Results, April 2012, Madison-Kipp Corporation.

Sample Name	ES	PAL	MW-1	MW-2D	MW-2S	MW-3D	MW-3D2	DUP-2	MW-3S	MW-4D	MW-4D2	MW-4S
Sample Date			04/11/12	04/11/12	04/11/12	04/12/12	04/12/12	04/12/12	04/12/12	04/10/12	04/10/12	04/10/12
Monitoring Well			MW-1	MW-2D	MW-2S	MW-3D	MW-3D2	MW-3D2	MW-3S	MW-4D	MW-4D2	MW-4S
VOCs												
1,1-Dichloroethene	7	0.7	0.94 J	<0.29	<0.29	<0.29	<1.5	<1.5	<1.5	<0.29	<0.29	<0.29
1,2,4-Trimethylbenzene	480	96	<0.22	<0.22	<0.22	<0.22	<1.1	<1.1	<1.1	<0.22	<0.22	<0.22
1,3,5-Trimethylbenzene	480	96	<0.23	<0.23	<0.23	<0.23	<1.2	<1.2	<1.2	<0.23	<0.23	<0.23
Benzene	5	0.5	<0.12	<0.12	<0.12	0.39 J	<0.6	<0.6	<0.6	<0.12	<0.12	<0.12
Carbon tetrachloride	5	0.5	<0.28	<0.28	<0.28	<0.28	<1.4	<1.4	<1.4	<0.28	<0.28	<0.28
Chloroform	6	0.6	<0.25	<0.25	<0.25	0.93 J	<1.3	<1.3	3.7 J	<0.25	<0.25	<0.25
cis-1,2-Dichloroethene	70	7	38	<0.22	<0.22	350	440	440	89	<0.22	<0.22	<0.22
Ethylbenzene	700	140	<0.14	<0.14	<0.14	<0.14	<0.7	<0.7	<0.7	<0.14	<0.14	<0.14
Isopropylbenzene	--	--	<0.21	<0.21	<0.21	<0.21	<1.1	<1.1	<1.1	<0.21	<0.21	<0.21
Methyl tert-butyl ether	60	12	<0.28	<0.28	<0.28	<0.28	<1.4	<1.4	<1.4	<0.28	<0.28	<0.28
Methylene chloride	5	0.5	8.5	8.1	8.6	<0.63	<3.2	<3.2	<3.2	<0.63	<0.63	<0.63
Naphthalene	100	10	<0.24	<0.24	<0.24	<0.24	<1.2	<1.2	<1.2	<0.24	<0.24	<0.24
N-Propylbenzene	--	--	<0.19	<0.19	<0.19	<0.19	<0.95	<0.95	<0.95	<0.19	<0.19	<0.19
p-Isopropyltoluene	--	--	<0.24	<0.24	<0.24	<0.24	<1.2	<1.2	<1.2	<0.24	<0.24	<0.24
sec-Butylbenzene	--	--	<0.19	<0.19	<0.19	<0.19	<0.95	<0.95	<0.95	<0.19	<0.19	<0.19
Tetrachloroethene	5	0.5	23	610	1.2	1,100	2,600	2,600	1,600	<0.22	0.73 J	0.96 J
Toluene	800	160	<0.15	<0.15	<0.15	<0.15	<0.75	<0.75	<0.75	<0.15	0.40 J	0.20 J
trans-1,2-Dichloroethene	100	20	0.77 J	<0.27	<0.27	5.9	6.4	5.8	5.4	<0.27	<0.27	<0.27
Trichloroethene	5	0.5	24	5.4	<0.18	160	190	190	120	<0.18	<0.18	<0.18
Vinyl chloride	0.2	0.02	0.86	<0.13	<0.13	<0.13	<0.65	<0.65	<0.65	<0.13	<0.13	<0.13
Xylenes, Total	2,000	400	<0.3	<0.3	<0.3	<0.3	<1.5	<1.5	<1.5	<0.3	<0.3	<0.3

All units are presented in micrograms per liter (µg/L).

Only analytes detected in groundwater samples are presented.

100 Exceeds the Wisconsin Department of Natural Resources Preventive Action Limit (PAL).

100 Exceeds the Wisconsin Department of Natural Resources Enforcement Standard (ES).

< Not detected.

-- Standard not established

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Summary of Groundwater Analytical Results, April 2012, Madison-Kipp Corporation.

Sample Name	ES	PAL	MW-5D	MW-5D2	MW-5S	DUP-3	MW-6D	MW-6S	MW-7	MW-8	MW-9D	DUP-1
Sample Date			04/12/12	04/12/12	04/12/12	04/12/12	04/12/12	04/11/12	04/10/12	04/10/12	04/11/12	04/11/12
Monitoring Well			MW-5D	MW-5D2	MW-5S	MW-5S	MW-6D	MW-6S	MW-7	MW-8	MW-9D	MW-9D
VOCs												
1,1-Dichloroethene	7	0.7	<0.29	<0.29	<0.29	<0.29	<0.58	<0.29	<0.29	<0.29	<0.29	<0.29
1,2,4-Trimethylbenzene	480	96	<0.22	<0.22	<0.22	<0.22	19	4.8	<0.22	<0.22	<0.22	<0.22
1,3,5-Trimethylbenzene	480	96	<0.23	<0.23	<0.23	<0.23	<0.46	1.5	<0.23	<0.23	<0.23	<0.23
Benzene	5	0.5	0.29 J	<0.12	<0.12	0.40 J	1,500	4.1	<0.12	<0.12	<0.12	<0.12
Carbon tetrachloride	5	0.5	<0.28	<0.28	1.2	<0.28	<0.56	<0.28	<0.28	<0.28	<0.28	<0.28
Chloroform	6	0.6	<0.25	<0.25	0.84 J	0.88 J	3.6	<0.25	<0.25	<0.25	<0.25	<0.25
cis-1,2-Dichloroethene	70	7	26	<0.22	13	14	<0.44	<0.22	<0.22	<0.22	<0.22	<0.22
Ethylbenzene	700	140	<0.14	<0.14	<0.14	<0.14	8.7	9.8	<0.14	<0.14	<0.14	<0.14
Isopropylbenzene	--	--	<0.21	<0.21	<0.21	<0.21	23	4.1	<0.21	<0.21	<0.21	<0.21
Methyl tert-butyl ether	60	12	<0.28	<0.28	<0.28	<0.28	<0.56	<0.28	<0.28	<0.28	<0.28	<0.28
Methylene chloride	5	0.5	<0.63	<0.63	<0.63	<0.63	<1.3	8.3	<0.63	<0.63	9	<0.63
Naphthalene	100	10	<0.24	<0.24	<0.24	<0.24	110	19	<0.24	<0.24	<0.24	<0.24
N-Propylbenzene	--	--	<0.19	<0.19	<0.19	<0.19	11	1.8	<0.19	<0.19	<0.19	<0.19
p-Isopropyltoluene	--	--	<0.24	<0.24	<0.24	<0.24	2.6	<0.24	<0.24	<0.24	<0.24	<0.24
sec-Butylbenzene	--	--	<0.19	<0.19	<0.19	<0.19	2.2	0.56 J	<0.19	<0.19	<0.19	<0.19
Tetrachloroethene	5	0.5	400	47	360	370 J	20	<0.22	<0.22	<0.22	<0.22	<0.22
Toluene	800	160	0.30 J	<0.15	<0.15	<0.15	36	2.5	<0.15	<0.15	<0.15	<0.15
trans-1,2-Dichloroethene	100	20	1.3	<0.27	<0.27	<0.27	<0.54	<0.27	<0.27	<0.27	<0.27	<0.27
Trichloroethene	5	0.5	48	<0.18	9.8	10	3.9	<0.18	<0.18	<0.18	<0.18	<0.18
Vinyl chloride	0.2	0.02	<0.13	<0.13	<0.13	<0.13	<0.26	<0.13	<0.13	<0.13	<0.13	<0.13
Xylenes, Total	2,000	400	<0.3	<0.3	<0.3	<0.3	40	7.8	<0.3	<0.3	<0.3	<0.3

All units are presented in micrograms per liter (µg/L).

Only analytes detected in groundwater samples are presented.

100 Exceeds the Wisconsin Department of Natural Resources Preventive Action Limit (PAL).

100 Exceeds the Wisconsin Department of Natural Resources Enforcement Standard (ES).

< Not detected.

-- Standard not established

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Summary of Groundwater Analytical Results, April 2012, Madison-Kipp Corporation.

Sample Name	ES	PAL	MW-9D2	MW-10S	MW-11S	MW-12S	Trip Blank
Sample Date			04/11/12	04/10/12	04/12/12	04/12/12	04/10/12
Monitoring Well			MW-9D2	MW-10S	MW-11S	MW-12S	
VOCs							
1,1-Dichloroethene	7	0.7	<0.29	<0.29	<0.29	<0.29	<0.29
1,2,4-Trimethylbenzene	480	96	<0.22	0.76 J	0.55 J	1.2	<0.22
1,3,5-Trimethylbenzene	480	96	<0.23	<0.23	<0.23	<0.23	<0.23
Benzene	5	0.5	<0.12	<0.12	<0.12	<0.12	<0.12
Carbon tetrachloride	5	0.5	<0.28	<0.28	<0.28	<0.28	<0.28
Chloroform	6	0.6	<0.25	<0.25	<0.25	<0.25	<0.25
cis-1,2-Dichloroethene	70	7	11	<0.22	<0.22	<0.22	<0.22
Ethylbenzene	700	140	<0.14	0.20 J	<0.14	<0.14	<0.14
Isopropylbenzene	--	--	<0.21	<0.21	<0.21	<0.21	<0.21
Methyl tert-butyl ether	60	12	9.3	<0.28	<0.28	<0.28	<0.28
Methylene chloride	5	0.5	8.8	<0.63	<0.63	<0.63	<0.63
Naphthalene	100	10	<0.24	<0.24	<0.24	<0.24	<0.24
N-Propylbenzene	--	--	<0.19	<0.19	<0.19	<0.19	<0.19
p-Isopropyltoluene	--	--	<0.24	<0.24	<0.24	<0.24	<0.24
sec-Butylbenzene	--	--	<0.19	<0.19	<0.19	<0.19	<0.19
Tetrachloroethene	5	0.5	10	<0.22	<0.22	0.78 J	<0.22
Toluene	800	160	<0.15	0.54	0.73	0.64	<0.15
trans-1,2-Dichloroethene	100	20	<0.27	<0.27	<0.27	<0.27	<0.27
Trichloroethene	5	0.5	3.8	<0.18	<0.18	<0.18	<0.18
Vinyl chloride	0.2	0.02	<0.13	<0.13	<0.13	<0.13	<0.13
Xylenes, Total	2,000	400	<0.3	0.83 J	0.86 J	1.6	<0.3

All units are presented in micrograms per liter (µg/L).

Only analytes detected in groundwater samples are presented.

100 Exceeds the Wisconsin Department of Natural Resources Preventive Action Limit (PAL).

100 Exceeds the Wisconsin Department of Natural Resources Enforcement Standard (ES).

< Not detected.

-- Standard not established

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.



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 http://www.slh.wisc.edu

Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB WI00007

WI DATCP ID: 105-415

WSLH Sample: OW001850

RJN ENVIRONMENTAL SERVICES LLC

4631 COUNTY ROAD A

OREGON, WI 53575

Bill To

Billing ID: 7305879

Customer ID: 320225

TRACKING 4920

2601 AGRICULTURAL DRIVE

MADISON WI 53718

ID#:

Waterbody/Outfall ID:

Point/Well:

Account #: LH034

Project No:

Date Received: 11/25/2011 12:29:00

Date Reported: 12/08/2011

Sample Reason:

Field #: 237

Collection Start: 11/25/2011 11:45:00

Collection End:

Collected By:

County:

Sample Source: AIR

Sample Depth:

Sample Information:

Sample Location:

Sample Description:

Analyses and Results:

Analysis Date	Lab Comment					
12/01/2011						
Analysis Method	Result	Units	LOD	LOQ	Report Limit	
VINYL CHLORIDE	<20.	PPB V			20.	
TRANS-1,2-DICHLOROETHYLENE	<20.	PPB V			20.	
CIS-1,2-DICHLOROETHYLENE	<20.	PPB V			20.	
TRICHLOROETHYLENE	<20.	PPB V			20.	
TETRACHLOROETHYLENE	53.	PPB V			20.	

Analysis Date	Lab Comment					
12/01/2011						
Analysis Method	Result	Units	LOD	LOQ	Report Limit	
TOXIC ORGANIC COMPOUNDS IN AMBIENT AIR T015 - PREP	COMPLETE				1	



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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790

NELAP LAB ID: E37658 EPA LAB WI00007

WI DATCP ID: 105-415

WSLH Sample: OW001850

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see <http://www.slh.wisc.edu/nelap/>

List of Abbreviations:

LOD = Level of detection

LOQ = Level of quantification

ND = None detected. Results are less than the LOD

Responsible Party: Steve Geis Steve Geis, Chemist Supervisor

If there are questions about this report, please contact Steve Geis at 608-224-6269.

The results in this report apply only to the sample specifically listed above. This report is not to be reproduced except in full.



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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB WI00007

WI DATCP ID: 105-415

WSLH Sample: OW001851

RJN ENVIRONMENTAL SERVICES LLC

4631 COUNTY ROAD A

OREGON, WI 53575

Bill To

Billing ID: 7305879

Customer ID: 320225

TRACKING 4920

2601 AGRICULTURAL DRIVE

MADISON WI 53718

ID#:

Waterbody/Outfall ID:

Point/Well:

Account #: LH034

Project No:

Date Received: 11/25/2011 12:29:00

Date Reported: 12/08/2011

Sample Reason:

Field #: 249

Collection Start: 11/25/2011 11:53:00

Collection End:

Collected By:

County:

Sample Source: AIR

Sample Depth:

Sample Information:

Sample Location:

Sample Description:

Analyses and Results:

Analysis Date	Lab Comment					
11/28/2011						
Analysis Method	Result	Units	LOD	LOQ	Report Limit	
VINYL CHLORIDE	ND	PPB V	0.085	0.280		
TRANS-1,2-DICHLOROETHYLENE	ND	PPB V	0.085	0.280		
CIS-1,2-DICHLOROETHYLENE	ND	PPB V	0.085	0.280		
TRICHLOROETHYLENE	ND	PPB V	0.085	0.280		
TETRACHLOROETHYLENE	8.44	PPB V	0.085	0.280		

Analysis Date	Lab Comment					
11/28/2011						
Analysis Method	Result	Units	LOD	LOQ	Report Limit	
TOXIC ORGANIC COMPOUNDS IN AMBIENT AIR T015 - PREP	COMPLETE				1	



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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790

NELAP LAB ID: E37658 EPA LAB WI00007

WI DATCP ID: 105-415

WSLH Sample: OW001851

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see <http://www.slh.wisc.edu/nelap/>

List of Abbreviations:

LOD = Level of detection

LOQ = Level of quantification

ND = None detected. Results are less than the LOD

Responsible Party: Steve Geis Steve Geis, Chemist Supervisor

If there are questions about this report, please contact Steve Geis at 608-224-6269.

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB WI00007

WI DATCP ID: 105-415

WSLH Sample: OW001852

RJN ENV SYC

4631 COUNTY RD A

OREGON, WI 53575

Bill To

Billing ID: 7305879

Customer ID: 320225

TRACKING 4920

2601 AGRICULTURAL DRIVE

MADISON WI 53718

ID#:

Waterbody/Outfall ID:

Point/Well:

Account #: LH034

Project No:

Date Received: 11/28/2011 11:27:00

Date Reported: 12/05/2011

Sample Reason:

Field #: 261

Collection Start: 11/28/2011 10:35:00

Collection End:

Collected By:

County:

Sample Source: AIR

Sample Depth:

Sample Information:

Sample Location:

Sample Description: SOIL VAPOR

Analyses and Results:

Analysis Date	Lab Comment					
12/01/2011	THE INTERNAL STANDARD QC LIMIT IS EXCEEDED - *IS.					
Analysis Method	Result	Units	LOD	LOQ	Report Limit	
VINYL CHLORIDE	*IS ND	PPB V	0.085	0.280		
TRANS-1,2-DICHLOROETHYLENE	*IS ND	PPB V	0.085	0.280		
CIS-1,2-DICHLOROETHYLENE	*IS ND	PPB V	0.085	0.280		
TRICHLOROETHYLENE	*IS ND	PPB V	0.085	0.280		
TETRACHLOROETHYLENE	*IS ND	PPB V	0.085	0.280		

Analysis Date	Lab Comment					
12/01/2011						
Analysis Method	Result	Units	LOD	LOQ	Report Limit	
TOXIC ORGANIC COMPOUNDS IN AMBIENT AIR T015 - PREP	COMPLETE				1	



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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790

NELAP LAB ID: E37658 EPA LAB WI00007

WI DATCP ID: 105-415

WSLH Sample: OW001852

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see <http://www.slh.wisc.edu/nelap/>

List of Abbreviations:

LOD = Level of detection

LOQ = Level of quantification

ND = None detected. Results are less than the LOD

Responsible Party: Steve Geis Steve Geis, Chemist Supervisor

If there are questions about this report, please contact Steve Geis at 608-224-6269.

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB WI00007

WI DATCP ID: 105-415

WSLH Sample: OW001849

RJN ENVIRONMENTAL SERVICES LLC

4631 COUNTY ROAD A

OREGON, WI 53575

Bill To

Billing ID: 7305879

Customer ID: 320225

TRACKING 4920

2601 AGRICULTURAL DRIVE

MADISON WI 53718

ID#:

Waterbody/Outfall ID:

Point/Well:

Account #: LH034

Project No:

Date Received: 11/25/2011 12:29:00

Date Reported: 12/08/2011

Sample Reason:

Field #: 102

Collection Start: 11/25/2011 11:07:00

Collection End:

Collected By:

County:

Sample Source: AIR

Sample Depth:

Sample Information:

Sample Location:

Sample Description:

Analyses and Results:

Analysis Date	Lab Comment				
12/07/2011 12:29:36	SEE OW001849.MM1				
Analysis Method	Result	Units	LOD	LOQ	Report Limit
VINYL CHLORIDE	*IS*D <400	PPB V			20.
TRANS-1,2-DICHLOROETHYLENE	*IS*D <400	PPB V			20.
CIS-1,2-DICHLOROETHYLENE	*IS 1940	PPB V			20.
TRICHLOROETHYLENE	*IS 1770	PPB V			20.
TETRACHLOROETHYLENE	*IS 4620	PPB V			20.

OW001849.MM1 :

WISCONSIN STATE LABORATORY OF HYGIENE SAMPLE OW001849 CONTAINS THE FOLLOWING FLAGS.

THE INTERNAL STANDARD QC LIMIT IS EXCEEDED - *IS.
 LOD NOT ACHIEVABLE DUE TO DILUTION - *D.

IF YOU HAVE ANY QUESTIONS, CONTACT STEVE GEIS AT (608) 224-6269.



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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB WI00007

WI DATCP ID: 105-415

WSLH Sample: OW001849

Analysis Date	Lab Comment				
12/07/2011 12:29:36					
Analysis Method	Result	Units	LOD	LOQ	Report Limit
TOXIC ORGANIC COMPOUNDS IN AMBIENT AIR T015 - PREP	COMPLETE				1

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see <http://www.slh.wisc.edu/nelap/>

List of Abbreviations:

LOD = Level of detection

LOQ = Level of quantification

ND = None detected. Results are less than the LOD

Responsible Party: Steve Geis Steve Geis, Chemist Supervisor

If there are questions about this report, please contact Steve Geis at 608-224-6269.

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB WI00007

WI DATCP ID: 105-415

WSLH Sample: OW001848

RJN ENVIRONMENTAL SERVICES LLC

4631 COUNTY ROAD A

OREGON, WI 53575

Bill To

Billing ID: 7305879

Customer ID: 320225

TRACKING 4920

2601 AGRICULTURAL DRIVE

MADISON WI 53718

ID#:

Waterbody/Outfall ID:

Point/Well:

Account #: LH034

Project No:

Date Received: 11/25/2011 12:29:00

Date Reported: 12/08/2011

Sample Reason:

Field #: 114

Collection Start: 11/25/2011 11:00:00

Collection End:

Collected By:

County:

Sample Source: AIR

Sample Depth:

Sample Information:

Sample Location:

Sample Description:

Analyses and Results:

Analysis Date	Lab Comment				
12/06/2011	SEE OW001848.MM1				
Analysis Method	Result	Units	LOD	LOQ	Report Limit
VINYL CHLORIDE	*IS*D <400	PPB V			20.
TRANS-1,2-DICHLOROETHYLENE	*IS*D <400	PPB V			20.
CIS-1,2-DICHLOROETHYLENE	*IS*D <400	PPB V			20.
TRICHLOROETHYLENE	*IS*D <400	PPB V			20.
TETRACHLOROETHYLENE	*IS 2540	PPB V			20.

OW001848.MM1 :

WISCONSIN STATE LABORATORY OF HYGIENE SAMPLE OW001848 CONTAINS THE FOLLOWING FLAGS.

THE INTERNAL STANDARD QC LIMIT IS EXCEEDED - *IS.
 LOD NOT ACHIEVABLE DUE TO DILUTION - *D.

IF YOU HAVE ANY QUESTIONS, CONTACT STEVE GEIS AT (608) 224-6269.



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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB WI00007

WI DATCP ID: 105-415

WSLH Sample: OW001848

Analysis Date 12/06/2011	Lab Comment				
Analysis Method	Result	Units	LOD	LOQ	Report Limit
TOXIC ORGANIC COMPOUNDS IN AMBIENT AIR T015 - PREP	COMPLETE				1

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see <http://www.slh.wisc.edu/nelap/>

List of Abbreviations:

LOD = Level of detection

LOQ = Level of quantification

ND = None detected. Results are less than the LOD

Responsible Party: Steve Geis Steve Geis, Chemist Supervisor

If there are questions about this report, please contact Steve Geis at 608-224-6269.

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB WI00007

WI DATCP ID: 105-415

WSLH Sample: OW001847

RJN ENVIRONMENTAL SERVICES LLC

4631 COUNTY ROAD A

OREGON, WI 53575

Bill To

Billing ID: 7305879

Customer ID: 320225

TRACKING 4920

2601 AGRICULTURAL DRIVE

MADISON WI 53718

ID#:

Waterbody/Outfall ID:

Point/Well:

Account #: LH034

Project No:

Date Received: 11/25/2011 12:29:00

Date Reported: 12/08/2011

Sample Reason:

Field #: 126

Collection Start: 11/25/2011 10:52:00

Collection End:

Collected By:

County:

Sample Source: AIR

Sample Depth:

Sample Information:

Sample Location:

Sample Description:

Analyses and Results:

Analysis Date	Lab Comment				
12/02/2011 12:11:16	LOD NOT ACHIEVABLE DUE TO DILUTION - *D.				
Analysis Method	Result	Units	LOD	LOQ	Report Limit
VINYL CHLORIDE	*D< 200	PPB V			20.
TRANS-1,2-DICHLOROETHYLENE	*D< 200	PPB V			20.
CIS-1,2-DICHLOROETHYLENE	*D< 200	PPB V			20.
TRICHLOROETHYLENE	*D< 200	PPB V			20.
TETRACHLOROETHYLENE	452.	PPB V			20.

Analysis Date	Lab Comment				
12/02/2011 12:11:16					
Analysis Method	Result	Units	LOD	LOQ	Report Limit
TOXIC ORGANIC COMPOUNDS IN AMBIENT AIR T015 - PREP	COMPLETE				1



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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790

NELAP LAB ID: E37658 EPA LAB WI00007

WI DATCP ID: 105-415

WSLH Sample: OW001847

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see <http://www.slh.wisc.edu/nelap/>

List of Abbreviations:

LOD = Level of detection

LOQ = Level of quantification

ND = None detected. Results are less than the LOD

Responsible Party: Steve Geis Steve Geis, Chemist Supervisor

If there are questions about this report, please contact Steve Geis at 608-224-6269.

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB WI00007

WI DATCP ID: 105-415

WSLH Sample: OW001844

RJN ENVIRONMENTAL SERVICES LLC

4631 COUNTY ROAD A

OREGON, WI 53575

Bill To

Billing ID: 7305879

Customer ID: 320225

TRACKING 4920

2601 AGRICULTURAL DRIVE

MADISON WI 53718

ID#:

Waterbody/Outfall ID:

Point/Well:

Account #: LH034

Project No:

Date Received: 11/25/2011 12:29:00

Date Reported: 12/08/2011

Sample Reason:

Field #: 202

Collection Start: 11/25/2011 10:05:00

Collection End:

Collected By:

County:

Sample Source: AIR

Sample Depth:

Sample Information:

Sample Location:

Sample Description:

Analyses and Results:

Analysis Date	Lab Comment					
11/28/2011	THE INTERNAL STANDARD QC LIMIT IS EXCEEDED - *IS.					
Analysis Method	Result	Units	LOD	LOQ	Report Limit	
VINYL CHLORIDE	*IS ND	PPB V	0.085	0.280		
TRANS-1,2-DICHLOROETHYLENE	*IS ND	PPB V	0.085	0.280		
CIS-1,2-DICHLOROETHYLENE	*IS ND	PPB V	0.085	0.280		
TRICHLOROETHYLENE	*IS ND	PPB V	0.085	0.280		
TETRACHLOROETHYLENE	*IS 5.7	PPB V	0.085	0.280		

Analysis Date	Lab Comment					
11/28/2011						
Analysis Method	Result	Units	LOD	LOQ	Report Limit	
TOXIC ORGANIC COMPOUNDS IN AMBIENT AIR T015 - PREP	COMPLETE				1	



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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790

NELAP LAB ID: E37658 EPA LAB WI00007

WI DATCP ID: 105-415

WSLH Sample: OW001844

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see <http://www.slh.wisc.edu/nelap/>

List of Abbreviations:

LOD = Level of detection

LOQ = Level of quantification

ND = None detected. Results are less than the LOD

Responsible Party: *Steve Geis* Steve Geis, Chemist Supervisor

If there are questions about this report, please contact Steve Geis at 608-224-6269.

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB WI00007

WI DATCP ID: 105-415

WSLH Sample: OW001845

RJN ENVIRONMENTAL SERVICES LLC

4631 COUNTY ROAD A

OREGON, WI 53575

Bill To

Billing ID: 7305879

Customer ID: 320225

TRACKING 4920

2601 AGRICULTURAL DRIVE

MADISON WI 53718

ID#:

Waterbody/Outfall ID:

Point/Well:

Account #: LH034

Project No:

Date Received: 11/25/2011 12:29:00

Date Reported: 12/08/2011

Sample Reason:

Field #: 210

Collection Start: 11/25/2011 10:13:00

Collection End:

Collected By:

County:

Sample Source: AIR

Sample Depth:

Sample Information:

Sample Location:

Sample Description:

Analyses and Results:

Analysis Date	Lab Comment					
11/28/2011						
Analysis Method	Result	Units	LOD	LOQ	Report Limit	
VINYL CHLORIDE	ND	PPB V	0.085	0.280		
TRANS-1,2-DICHLOROETHYLENE	ND	PPB V	0.085	0.280		
CIS-1,2-DICHLOROETHYLENE	ND	PPB V	0.085	0.280		
TRICHLOROETHYLENE	ND	PPB V	0.085	0.280		
TETRACHLOROETHYLENE	3.22	PPB V	0.085	0.280		

Analysis Date	Lab Comment					
11/28/2011						
Analysis Method	Result	Units	LOD	LOQ	Report Limit	
TOXIC ORGANIC COMPOUNDS IN AMBIENT AIR T015 - PREP	COMPLETE				1	



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Laboratory Report

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Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790

NELAP LAB ID: E37658 EPA LAB WI00007

WI DATCP ID: 105-415

WSLH Sample: OW001845

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see <http://www.slh.wisc.edu/nelap/>

List of Abbreviations:

LOD = Level of detection

LOQ = Level of quantification

ND = None detected. Results are less than the LOD

Responsible Party: Steve Geis Steve Geis, Chemist Supervisor

If there are questions about this report, please contact Steve Geis at 608-224-6269.

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Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790

NELAP LAB ID: E37658

EPA LAB WI00007

WI DATCP ID: 105-415

WSLH Sample: OW001846

RJN ENVIRONMENTAL SERVICES LLC

4631 COUNTY ROAD A

OREGON, WI 53575

Bill To

Billing ID: 7305879

Customer ID: 320225

TRACKING 4920

2601 AGRICULTURAL DRIVE

MADISON WI 53718

ID#:

Waterbody/Outfall ID:

Point/Well:

Account #: LH034

Project No:

Date Received: 11/25/2011 12:29:00

Date Reported: 12/08/2011

Sample Reason:

Field #: 222

Collection Start: 11/25/2011 10:23:00

Collection End:

Collected By:

County:

Sample Source: AIR

Sample Depth:

Sample Information:

Sample Location:

Sample Description:

Analyses and Results:

Analysis Date	Lab Comment				
12/01/2011	LOD NOT ACHIEVABLE DUE TO DILUTION - *D.				
Analysis Method	Result	Units	LOD	LOQ	Report Limit
VINYL CHLORIDE	*D< 40	PPB V			20.
TRANS-1,2-DICHLOROETHYLENE	*D< 40	PPB V			20.
CIS-1,2-DICHLOROETHYLENE	*D< 40	PPB V			20.
TRICHLOROETHYLENE	*D< 40	PPB V			20.
TETRACHLOROETHYLENE	77.	PPB V			20.

Analysis Date	Lab Comment				
12/01/2011					
Analysis Method	Result	Units	LOD	LOQ	Report Limit
TOXIC ORGANIC COMPOUNDS IN AMBIENT AIR T015 - PREP	COMPLETE				1



Wisconsin State Laboratory of Hygiene
2601 Agriculture Drive, PO Box 7996
Madison, WI 53707-7996
(800)442-4618 • FAX (608)224-6213
<http://www.slh.wisc.edu>

Laboratory Report

D.F. Kurtycz, M.D., Medical Director • Charles D. Brokopp, Dr.P.H., Director

Environmental Health Division

Organic Chemistry

WDNR LAB ID: 113133790

NELAP LAB ID: E37658 EPA LAB WI00007

WI DATCP ID: 105-415

WSLH Sample: OW001846

Test results for NELAP accredited tests are certified to meet the requirements of the NELAC standards. For a list of accredited analytes see <http://www.slh.wisc.edu/nelap/>

List of Abbreviations:

LOD = Level of detection

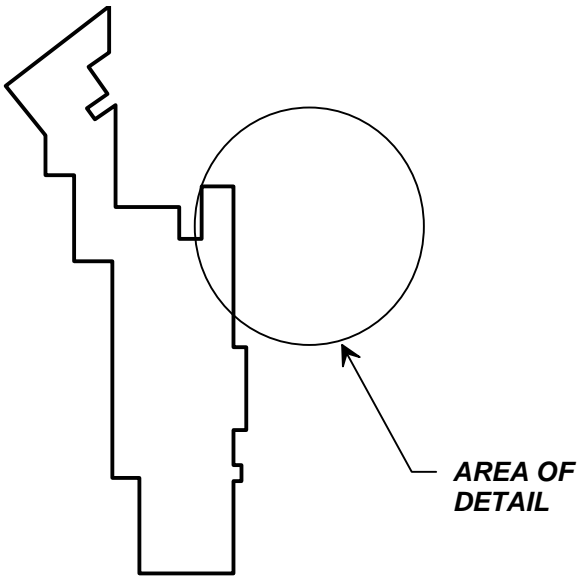
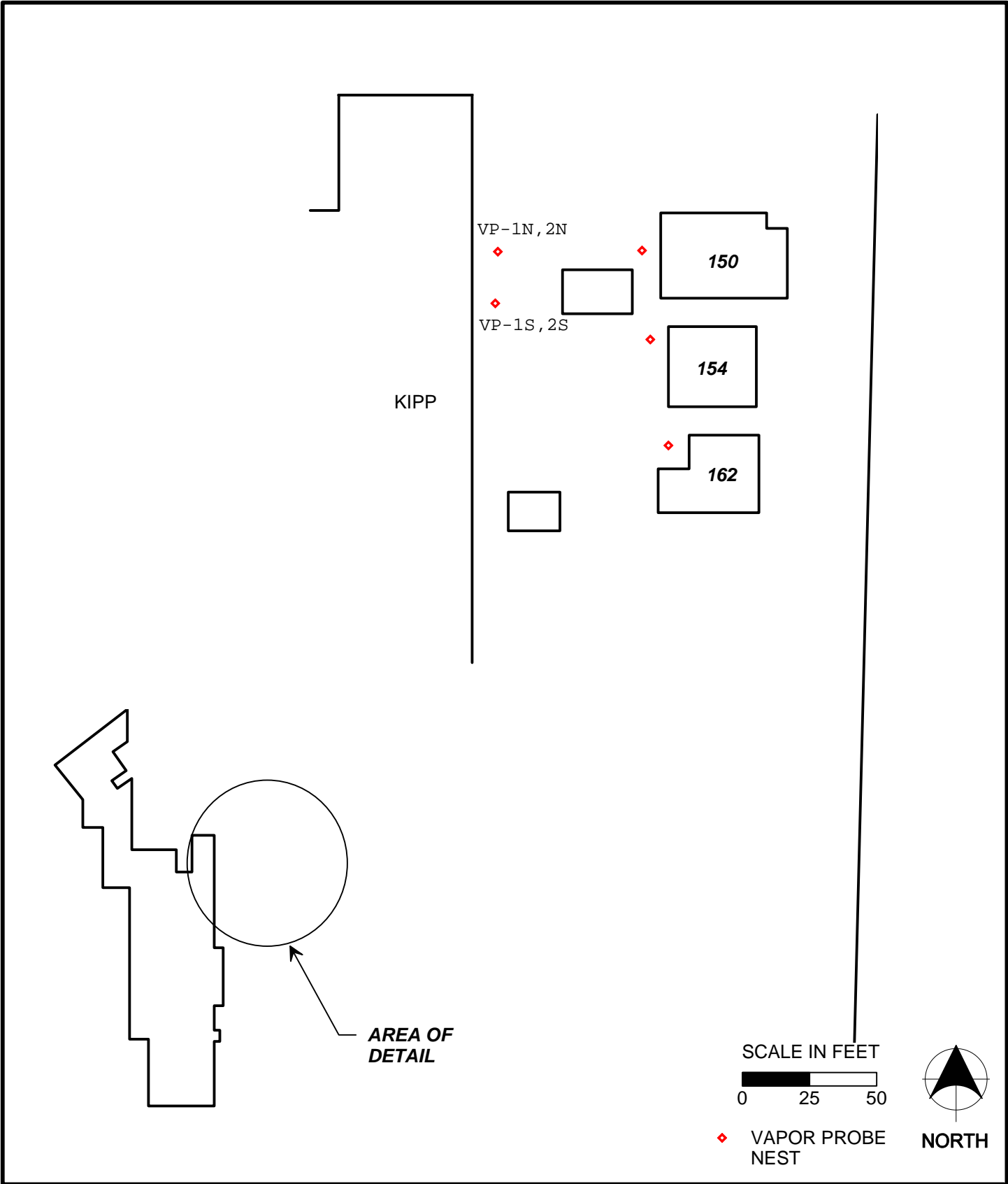
LOQ = Level of quantification

ND = None detected. Results are less than the LOD

Responsible Party: *Steve Geis* Steve Geis, Chemist Supervisor

If there are questions about this report, please contact Steve Geis at 608-224-6269.

The results in this report apply only to the sample specifically listed above. This report is not to be reproduced except in full.



4631 COUNTY ROAD A OREGON, WISCONSIN 53575 (608) 576-3001

MADISON KIPP CORPORATION
 MADISON, WISCONSIN
 VAPOR PROBE LOCATIONS

DRAWN BY	PROJ. No.	DATE
RN	09-101	26 APR 10

FIGURE

1

FILE

PROBES

TABLE 3
MADISON-KIPP CORPORATION
MADISON, WISCONSIN
SOIL VAPOR ANALYSES
Concentrations in ppb

PARAMETER	DATE	PROBE									
		VP-1N	VP-2N	VP-1S	VP-2S	150 S	150 D	154 S	154 D	162 S	162 D
1,2-Dichloroethene ¹	Feb-05	2600	550	2800	475						
	Jul-05	1050	1725	2275	275						
	Oct-05	<2500	<2500	<2500	<2500						
	Jan-06	NA	NA	NA	NA						
	Mar-06	825	<250	1025	<250						
	Oct-06	1125	675	1350	<500	<250	<250	<250	<250	<250	<250
	Dec-06	1600	<500	1050	325	<250	<250	<250	<250	<250	<250
	Apr-07	1200	<1000	<2000	<1000	<500	<500	<500	<500	<500	<500
	Aug-07	1200	640	970	390	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	Sep-07	1400	720	590	420	<0.74	<0.50	<0.50	<0.87	<0.84	<0.50
	Dec-07	620	250	NP	190	<10	<10	<10	<10	<10	<10
	Mar-08	450	110	320	100	<10	<10	<10	<10	<10	<10
	Jun-08	400	220	160	57	<10	<10	<10	<10	NP	NP
	Sep-08	1600	900	490	1040	<10	<10	NP	<10	10	<10
	Dec-08	560	370	190	32	<10	<10	<10	<10	<10	<10
	Apr-09	<50	<50	<50	<50	<50	<50	<10	<10	<10	<10
	Jun-09	440	140	200	<20	<20	<20	<20	<20	<20	<20
Sep-09	<20	500	341	332	<20	<20	<20	<20	<20	<20	
Tetrachloroethene	Feb-05	43266	16225	51800	7747						
	Jul-05	26018	31427	42243	3800						
	Oct-05	29234	16079	27772	12278						
	Jan-06	26311	11694	20464	5408						
	Mar-06	12424	1126	21926	4677						
	Oct-06	30696	23387	33619	14617	<146	<146	<146	<146	<146	<146
	Dec-06	33619	16078	39466	16078	<146	<146	<146	<146	<146	<146
	Apr-07	19002	11547	26310	5555	<146	<146	<146	<146	<146	<146
	Aug-07	27000	18000	33000	16000	11	110	1.7	69	6.4	86
	Sep-07	40000	32000	12000	22000	3.2	57	7.2	60	3.1	66
	Dec-07	1100	780	NP	800	35	26	18	21	<10	<10
	Mar-08	2700	1100	3000	1200	<10	<10	<10	<10	<10	<10
	Jun-08	1400	1400	1400	410	15	19	11	<10	NP	NP
	Sep-08	4800	4800	6600	6200	460	330	NP	520	1900	85
	Dec-08	890	1200	2200	1300	20	270	250	1100	700	10
	Apr-09	<50	200	820	<50	<50	<50	<10	<10	<10	<10
	Jun-09	1300	4600	5100	1100	<20	21	<20	20	<20	33
Sep-09	160	1300	1400	1100	18	53	<10	25	<10	56	
Trichloroethene	Feb-05	941	314	159	151						
	Jul-05	535	720	122	83						
	Oct-05	<1844	<1844	<1844	<1844						
	Jan-06	NA	NA	NA	NA						
	Mar-06	387	<184	480	<184						
	Oct-06	535	498	<738	<369	<184	<184	<184	<184	<184	<184
	Dec-06	775	<369	590	277	<184	<184	<184	<184	<184	<184
	Apr-07	<738	<369	<738	<369	<185	<185	<185	<185	<185	<185
	Aug-07	720	470	660	340	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	Sep-07	970	660	430	430	<0.74	<0.50	<0.50	<0.87	<0.84	<0.50
	Dec-07	200	93	NP	89	<10	<10	<10	<10	<10	<10
	Mar-08	120	52	130	49	<10	<10	<10	<10	<10	<10
	Jun-08	140	110	84	23	<10	<10	<10	<10	NP	NP
	Sep-08	950	850	550	850	<10	<10	NP	13	15	<10
	Dec-08	330	270	450	93	<10	<10	11	<10	<10	<10
	Apr-09	<50	<50	<50	<50	<50	<50	<10	<10	<10	<10
	Jun-09	370	130	140	<20	<20	<20	<20	<20	<20	<20
Sep-09	<10	370	260	240	<10	<10	<10	<10	<10	<10	

Notes:

Primary contaminants of concern included on table. Reference laboratory analytical reports for full list of analytes detected.

Shaded cells: Probes not installed at that time.

ND: Not detected.

NA: Not analyzed.

NP: Analysis not possible. Sample was damaged in transit.

¹ Includes cis- and trans-