

Michael Schmoller
Wisconsin Department of Natural Resources
South Central Region
3911 Fish Hatchery Road
Madison WI 53711

Subject:

Off-Site Residential Polycyclic Aromatic Hydrocarbon (PAH) Results Summary,
Madison-Kipp Corporation Site, 201 Waubesa Street, Madison, Wisconsin.
BRRTS No. 02-13-558625

Dear Mr. Schmoller:

As discussed during our meeting on August 29, 2012, the off-site soil investigation activities have been completed as presented in the *Work Plan for PCB Investigation*, dated May 21, 2012 and the *Supplemental Work plan for PCB Investigation*, dated July 23, 2012. The work plans were approved by the Wisconsin Department of Natural Resources (WDNR) on May 30, 2012 and August 6, 2012, respectively. As part of the WDNR *Conditional Approval* letter dated May 30, 2012, PAHs were added to the analyte list for the soil samples. This summary addresses the results of the PAH analyses. PAHs are common background constituents in the environment. This summary also presents documentation regarding background PAH conditions and risk posed by PAHs.

Investigation Activities

As part the investigation activities, 121 shallow soil samples were collected from 32 off-site residential properties and submitted to Test America, Inc. for laboratory analysis of PAHs by Method U.S. EPA (United States Environmental Protection Agency) SW-846 8270C, polychlorinated biphenyls (PCBs) by U.S. EPA SW-846 Method 8082, VOCs by U.S. EPA SW-846 Method 8260B, RCRA metals by Methods U.S. EPA SW-846 6010/7471A, and total cyanide by U.S. EPA SW-846 Method 9014. The soil results from the investigation activities are included in Table 1.

Data Evaluation

PAHs detected in soil were compared to the WDNR Non-Industrial Direct Contact Residual Contaminant Levels (RCLs) as calculated using the U.S. EPA's Regional Screening Level web calculator. The RCL for non-industrial direct contact conservatively assumes that an adult or child is exposed to PAHs in soil via

Imagine the result

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ingestion, dermal contact, and inhalation for 350 days per year for 30 years. As previously communicated to WDNR, at most of the sample locations, one or more PAHs from 0 to 2 ft below ground surface (ft bgs) exceeded its RCL at a cancer risk level of 1×10^{-6} or a non-cancer hazard index of 1. At only a few sample locations, PAH results from 2 to 4 ft bgs also exceeded the RCLs.

As noted in our previous discussions, PAHs are associated with a wide variety of petroleum and combustion byproducts, and are common background constituents in the environment. The Wisconsin Department of Health Services' fact sheet on PAHs emphasizes their ubiquitous nature.¹ The data were evaluated more closely to determine if there is a potential on-site source contributing to the off-site residential findings. The evaluation considered typical sources of PAHs and background levels, data from nearby properties, preliminary remediation goals (PRGs) for other sites in Wisconsin, and typical levels of PAHs in the diet.

First, the data results were evaluated in comparison to background. Many studies have been conducted to evaluate the presence of PAHs in the environment. PAHs are formed from any combustion activity and are ubiquitous in the environment. Sources of PAHs to the environment include: asphalt, cigarette smoke, backyard grilling, vehicle exhaust, coal, coal tar, and agricultural and residential wood burning.² Given these widespread sources, it is not unexpected or unusual to detect PAHs in residential yards or other areas within proximity of commercial or industrial buildings. If an on-site source and transport mechanism was present, it would be expected that other site-related chemicals would also be detected on residential properties. However, while the data confirm widespread low levels of PAHs (Figures 1 and 2) in residential soil, there was no similar finding for PCBs or any other potential site-related compound. The absence of other site-related constituents suggests the PAHs are associated with sources unrelated to the site.

Numerous state agencies and other research groups have evaluated the presence and concentrations of the PAHs in the environment. Background PAH datasets from

¹ Wisconsin Department of Health Services, "Polycyclic Aromatic Hydrocarbons (PAHs)", P-44606, available at <http://www.dhs.wisconsin.gov/eh/chemfs/fs/pah.htm>

² Based on observations by RJN Environmental Services during sampling activities, burn pits and/or grills are present in the backyard of nearly every property that borders Madison-Kipp on South Marquette and Waubesa Streets.

Illinois, Massachusetts, and a subset of New England cities are provided in Table 2 and were compared to the concentrations identified in the off-site soils. As presented in Table 2, the levels of PAHs found on the residential properties are consistent with or well below the background levels reported. Of the five PAH compounds that exceed the WDNR RCLs (i.e., benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene, dibenz(ah)anthracene, and indeno(123-cd)pyrene), the **maximum** concentration of these compounds is still well below the upper background concentration results. These data strongly suggest the PAH detections are due to the urban environment and typical combustion uses of residential properties and do not indicate a wide-spread or even localized potential health risk of PAHs from Madison Kipp.

Second, data were reviewed from the Goodman site (Table 2) located adjacent to the Madison Kipp property. The review identified PAH detections at the Goodman site in excess of non-industrial direct contact RCLs. The PAH detections at the Goodman site demonstrate that these constituents are a common artifact in industrial settings. The fact that the detections near MKC are less than what was detected at the Goodman Center is further support for the conclusion that the off-site PAH detections merely represent background levels of PAHs in an urban setting.

Third, the PAH data in the residential soil at MKC were compared to cleanup or action levels expressed as PRGs for residential soil at other sites in Wisconsin.

- At the Stevens Point MGP site, U.S. EPA set the PRG for soil using a target cancer risk of 1×10^{-4} for hypothetical residential land use. This means PAHs could be left in place if the total risk did not exceed 1×10^{-4} . The PAHs in residential soils near MKC are all below a 1×10^{-4} risk level.
- For the Ashland site, U.S. EPA set the PRGs for residential soil at a risk range of 10^{-5} to 10^{-4} risk. The PAHs in residential soil near MKC are less than the PRGs for a 10^{-5} risk (ranging from 0.62 to 6.2 mg/kg), except for benzo(a)pyrene, where the maximum detected concentration near MKC was less than the PRG for a 10^{-4} risk (i.e., PRG of 6.2 mg/kg compared to 0.82 mg/kg on site).

In comparison to these risk values, the WDNR RCL for benzo(a)pyrene in residential soil is 0.015 mg/kg at a cancer risk of 1×10^{-6} . The maximum detected benzo(a)pyrene concentration in off-site soil of 0.82 mg/kg corresponds to an

estimated risk level of 5.5×10^{-5} . This value is well within the risk-based limits set at the two sites above.

Finally, it is important to note that the estimated baseline daily intake of carcinogenic PAHs in the diet is 1 to 5 micrograms (μg) for an adult male³. Based on the U.S. EPA incidental soil ingestion rate of 50 mg/day for an adult⁴, the intake of total carcinogenic PAHs from the maximum soil sample off-site (4.82 mg/kg) is 0.24 $\mu\text{g}/\text{day}$. This calculated intake from the maximum soil sample is up to 20 times lower than the intake from a typical diet.

Closing

PAHs are common industrial compounds, as indicated by their presence on properties such as Madison Kipp and the nearby Goodman Center. However, PAHs are also associated with a broad range of sources unrelated to industrial activity. Based on this information, there is insufficient evidence to establish that PAHs in residential soil are associated with the Madison Kipp property and are anything other than typical background PAHs present in an urban setting. In addition, the concentrations of PAHs present off-site are less than the risk-based levels developed for similar sites in Wisconsin. Therefore, there is no need to implement remedial measures for these constituents at off-site locations. PAHs are ubiquitous in an urban environment from many different activities, the majority of which have no relation to activities at Madison Kipp. As a result, PAHs should not be a driver for off-site remediation in relation to the Madison Kipp site.

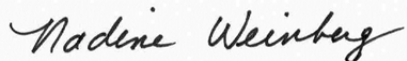
³ Menzie, CA; Potocki, BB; Santodonato, J. 1992. "Exposure to carcinogenic PAHs in the environment." *Environ. Sci. Technol.* 26(7):1278-1284.

⁴ US EPA. 2011a. "Exposure Factors Handbook: 2011 Edition." Office of Research and Development, National Center for Environmental Assessment (NCEA), EPA/600/R-090/052F, 1,466p., September.

Should you have any questions regarding the project or the data set forth herein,
please feel free to contact us at your convenience.

Sincerely,

ARCADIS U.S., Inc.



Nadine Weinberg
Principal Scientist



Jennine L. Trask, PE
Project Manager

Copies:

David Crass – Michael Best
Mark Meunier – Madison Kipp

Table 1. Summary of Off-Site Soil Analytical Results, Residential Properties, Madison-Kipp Corporation, Madison, Wisconsin.

Well/Boring	Non-Industrial	Industrial	EPA High	TSCA	102-1		
	Direct Contact RCL	Direct Contact RCL	Occupancy Cleanup Level	Disposal Limit	0-1' 4/27/12	0-1' 8/15/12	3-4' 6/20/12
VOC							
1,2,3-Trichlorobenzene	48.9	151	NE	NE	0.0365 J, B	NA	<0.022
1,2,4-Trichlorobenzene	22.1	98.7	NE	NE	0.033 J, B	NA	<0.024
1,2,4-Trimethylbenzene	89.8	219	NE	NE	<0.00918 L	NA	<0.013
1,3,5-Trimethylbenzene	182	182	NE	NE	<0.0235 L	NA	<0.013
Bromomethane	10.3	46	NE	NE	0.0509 J, B	NA	<0.043
Chloroform	0.423	2.13	NE	NE	<0.0109	NA	<0.013
cis-1,2-Dichloroethene	156	2,040	NE	NE	<0.0247	NA	<0.0077
Ethylbenzene	7.47	37	NE	NE	0.00405 J, L, B	NA	<0.0079
Hexachlorobutadiene	6.23	22.1	NE	NE	0.0284 J, L, B	NA	<0.022
Methylene Chloride	60.7	1,070	NE	NE	0.0567 J, B	NA	<0.043
Naphthalene	5.15	26	NE	NE	<0.0763	NA	<0.031
n-Butylbenzene	108	108	NE	NE	0.0139 J, L, B	NA	<0.0081
N-Propylbenzene	264	264	NE	NE	<0.00918 L	NA	<0.011
sec-Butylbenzene	145	145	NE	NE	<0.0109 L	NA	<0.0096
Tetrachloroethene	30.7	153	NE	NE	0.0226 J	NA	0.079
Toluene	818	818	NE	NE	<0.00918	NA	<0.0072
Trichloroethene	0.644	8.81	NE	NE	<0.0143	NA	<0.012
Xylenes, Total	258	258	NE	NE	0.0376 J, B	NA	<0.0043
PAH							
1-Methylnaphthalene	NE	NE	NE	NE	NA	<0.018	<0.018
2-Methylnaphthalene	229	368	NE	NE	NA	<0.048	<0.047
Acenaphthene	3,440	33,000	NE	NE	NA	0.012 J	<0.011
Acenaphthylene	487	487	NE	NE	NA	0.021 J	0.011 J
Anthracene	17,200	100,000	NE	NE	NA	0.05	0.024 J
Benzo(a)anthracene	0.148	2.11	NE	NE	NA	0.29	0.11
Benzo(a)pyrene	0.0148	0.211	NE	NE	NA	0.29	0.11
Benzo(b)fluoranthene	0.148	2.11	NE	NE	NA	0.25	0.14
Benzo(g,h,i)perylene	NE	NE	NE	NE	NA	0.2	0.08
Benzo(k)fluoranthene	1.48	21.1	NE	NE	NA	0.33	0.072
Chrysene	14.8	211	NE	NE	NA	0.33	0.11
Dibenz(a,h)anthracene	0.0148	0.211	NE	NE	NA	0.057	<0.01

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Well/Boring Sample Depth Sample Date	Non-Industrial	Industrial	EPA High	TSCA	102-1		
	Direct Contact RCL	Direct Contact RCL	Occupancy Cleanup Level	Disposal Limit	0-1' 4/27/12	0-1' 8/15/12	3-4' 6/20/12
PAH (continued)							
Fluoranthene	2,290	22,000	NE	NE	NA	0.61	0.25
Fluorene	2,290	22,000	NE	NE	NA	0.016 J	0.0088 J
Indeno(1,2,3-cd)pyrene	0.148	2.11	NE	NE	NA	0.17	0.069
Naphthalene	5.15	26	NE	NE	NA	0.0096 J	<0.007
Phenanthrene	115	115	NE	NE	NA	0.27	0.12
Pyrene	1,720	16,500	NE	NE	NA	0.53	0.18
Metal							
Arsenic	0.39	1.59	NE	NE	NA	5.6	3.5
Barium	15,300	100,000	NE	NE	NA	120	130
Cadmium	70.2	803	NE	NE	NA	0.44	0.28
Chromium	NE	NE	NE	NE	NA	15	10
Cyanide, Total	46.9	613	NE	NE	NA	<0.13	0.26 J
Lead	400	800	NE	NE	NA	76	23
Mercury	3.13	3.13	NE	NE	NA	0.27	0.14 B
Selenium	391	5,110	NE	NE	NA	0.45 J	<0.27
Silver	391	5,110	NE	NE	NA	0.11 J	0.17 J
PCBs							
Aroclor-1242	0.222	0.744	NE	NE	<0.0062	NA	<0.0061
Aroclor-1254	0.222	0.744	NE	NE	<0.00367	NA	<0.004
Aroclor-1260	0.222	0.744	NE	NE	<0.00195	NA	<0.0091
Total Detected PCBs	NE	NE	1	50	ND	NA	ND

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Table 1. Summary of Off-Site Soil Analytical Results, Residential Properties, Madison-Kipp Corporation, Madison, Wisconsin.

Well/Boring	102-2		106-1			106-2			110-1		
	0-1'	0-1'	0-1'	0-1'	3-4'	0-1'	0-1'	3-4'	0-1'	0-1'	3-4'
Sample Depth	0-1'	0-1'	0-1'	0-1'	3-4'	0-1'	0-1'	3-4'	0-1'	0-1'	3-4'
Sample Date	4/27/12	8/15/12	5/17/12	8/15/12	6/20/12	5/17/12	8/15/12	6/20/12	4/27/12	8/15/12	6/21/12
VOC											
1,2,3-Trichlorobenzene	<0.0171 M1	NA	<0.0313	NA	<0.022	<0.0304	NA	<0.021	<0.0124	NA	<0.026
1,2,4-Trichlorobenzene	<0.0171 M1	NA	<0.0313	NA	<0.024	<0.0304	NA	<0.023	<0.0124	NA	<0.028
1,2,4-Trimethylbenzene	0.027 J, L, M1, B	NA	<0.0209	NA	<0.013	0.198 J, B	NA	<0.013	0.0138 J, L, B	NA	<0.016
1,3,5-Trimethylbenzene	<0.0291 L, M1	NA	<0.0534	NA	<0.013	0.0659 J, B	NA	<0.012	<0.0212 L	NA	<0.015
Bromomethane	0.0561 J, B	NA	<0.1	NA	<0.044	<0.0975	NA	<0.041	<0.0398	NA	<0.051
Chloroform	<0.0135 M1	NA	0.0943 J, B	NA	<0.013	0.102 J, B	NA	<0.012	<0.00982	NA	<0.015
cis-1,2-Dichloroethene	0.49	NA	<0.056	NA	0.33	0.164 J	NA	0.068	<0.0222	NA	<0.0092
Ethylbenzene	0.00569 J, L, M1, B	NA	<0.00912	NA	<0.008	0.145 J, B	NA	<0.0076	0.00372 J, L, B	NA	<0.0094
Hexachlorobutadiene	<0.0142 L, M1	NA	0.0862 J, B	NA	<0.022	0.0807 J, B	NA	<0.021	<0.0103 L	NA	<0.026
Methylene Chloride	0.0682 J, B	NA	0.527 J, B	NA	<0.044	0.5 J, B	NA	<0.041	0.0531 J, B	NA	<0.051
Naphthalene	<0.0945 M1	NA	<0.173	NA	<0.032	<0.168	NA	<0.03	<0.0688	NA	<0.037
n-Butylbenzene	<0.0114 L, M1	NA	<0.0209	NA	<0.0082	0.0215 J, B	NA	<0.0078	<0.00827 L	NA	<0.0097
N-Propylbenzene	<0.0114 L, M1	NA	<0.0209	NA	<0.011	0.043 J, B	NA	<0.011	<0.00827 L	NA	<0.013
sec-Butylbenzene	<0.0135 L, M1	NA	<0.0248	NA	<0.0098	0.196 J, B	NA	<0.0093	<0.00982 L	NA	<0.012
Tetrachloroethene	2.19	NA	0.956	NA	3.6	1.78	NA	0.32	0.00957 J	NA	0.54
Toluene	<0.0114 M1	NA	<0.0209	NA	<0.0073	0.144 J	NA	<0.0069	<0.00827	NA	<0.0086
Trichloroethene	0.445	NA	0.151 J	NA	0.71	0.422 J	NA	0.084	<0.0129	NA	<0.014
Xylenes, Total	0.0213 J, M1, B	NA	<0.0287	NA	<0.0044	0.519 J, B	NA	<0.0041	0.0159 J, B	NA	<0.0051
PAH											
1-Methylnaphthalene	NA	<0.019	NA	0.086	<0.018	NA	0.026 J	<0.02	NA	<0.019	<0.018
2-Methylnaphthalene	NA	<0.05	NA	0.062 J	<0.047	NA	<0.048	<0.052	NA	<0.048	<0.047
Acenaphthene	NA	<0.012	NA	<0.011	<0.011	NA	<0.011	<0.012	NA	<0.011	<0.011
Acenaphthylene	NA	<0.0089	NA	0.012 J	<0.0083	NA	<0.0085	<0.0092	NA	<0.0086	0.011 J
Anthracene	NA	0.024 J	NA	0.041	<0.0085	NA	0.017 J	<0.0094	NA	<0.0088	0.018 J
Benzo(a)anthracene	NA	0.16	NA	0.2	<0.0076	NA	0.1	<0.0084	NA	0.027 J	0.074
Benzo(a)pyrene	NA	0.15	NA	0.19	<0.0066	NA	0.11	<0.0073	NA	0.035 J	0.074
Benzo(b)fluoranthene	NA	0.21	NA	0.29	<0.0071	NA	0.16	<0.0078	NA	0.054	0.091
Benzo(g,h,i)perylene	NA	0.12	NA	0.14	<0.012	NA	0.082	<0.014	NA	0.031 J	0.057
Benzo(k)fluoranthene	NA	0.091	NA	0.11	<0.0087	NA	0.06	<0.0096	NA	0.03 J	0.057
Chrysene	NA	0.19	NA	0.26	<0.0082	NA	0.15	<0.0091	NA	0.049	0.086
Dibenz(a,h)anthracene	NA	0.034 J	NA	0.039	<0.01	NA	0.022 J	<0.011	NA	0.01 J	0.014 J

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Well/Boring	102-2		106-1			106-2			110-1		
	0-1'	0-1'	0-1'	0-1'	3-4'	0-1'	0-1'	3-4'	0-1'	0-1'	3-4'
Sample Depth	0-1'	0-1'	0-1'	0-1'	3-4'	0-1'	0-1'	3-4'	0-1'	0-1'	3-4'
Sample Date	4/27/12	8/15/12	5/17/12	8/15/12	6/20/12	5/17/12	8/15/12	6/20/12	4/27/12	8/15/12	6/21/12
PAH (continued)											
Fluoranthene	NA	0.3	NA	0.39	<0.015	NA	0.22	<0.016	NA	0.064	0.16
Fluorene	NA	<0.0088	NA	0.016 J	<0.0083	NA	<0.0085	<0.0091	NA	<0.0085	0.011 J
Indeno(1,2,3-cd)pyrene	NA	0.096	NA	0.12	<0.012	NA	0.068	<0.014	NA	0.025 J	0.047
Naphthalene	NA	<0.0075	NA	0.039	<0.007	NA	0.013 J	<0.0077	NA	<0.0072	<0.007
Phenanthrene	NA	0.14	NA	0.31	<0.015	NA	0.14	<0.017	NA	0.022 J	0.085
Pyrene	NA	0.34	NA	0.35	<0.013	NA	0.21	<0.014	NA	0.052	0.14
Metal											
Arsenic	NA	5.4	NA	6.8	8.9	NA	8.9	8.3	NA	3.6	6.3
Barium	NA	110	NA	980	130	NA	170	110	NA	78	170
Cadmium	NA	0.98	NA	1.1	0.15 J	NA	0.75	0.14 J	NA	0.25	0.67
Chromium	NA	15	NA	19	21	NA	14	20	NA	8.5	15
Cyanide, Total	NA	<0.15	NA	<0.17	<0.15	NA	<0.12	<0.16	NA	<0.16	0.41 J
Lead	NA	91	NA	900	18	NA	88	16	NA	15	96
Mercury	NA	0.12	NA	0.17	0.047 B	NA	0.093	0.062 B	NA	0.03	0.41 B
Selenium	NA	0.38 J	NA	0.55 J	<0.29	NA	0.58 J	<0.32	NA	<0.31	0.53 J
Silver	NA	0.12 J	NA	0.28 J	<0.06	NA	0.24 J	<0.067	NA	<0.066	0.6
PCBs											
Aroclor-1242	<0.00628	NA	<0.00704	NA	<0.0062	<0.00684	NA	<0.0066	<0.00558	NA	<0.0059
Aroclor-1254	<0.00372	NA	<0.00417	NA	<0.0041	<0.00405	NA	<0.0044	<0.00331	NA	<0.0039
Aroclor-1260	<0.00198	NA	<0.00222	NA	<0.0093	<0.00215	NA	<0.0099	<0.00176	NA	0.018
Total Detected PCBs	ND	NA	ND	NA	ND	ND	NA	ND	ND	NA	0.018

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Well/Boring	110-2			114-1			114-2			118-1		
	0-1'	0-1'	3-4'	0-1'	0-1'	3-4'	0-1'	0-1'	3-4'	0-1'	0-1'	3-4'
Sample Depth	0-1'	0-1'	3-4'	0-1'	0-1'	3-4'	0-1'	0-1'	3-4'	0-1'	0-1'	3-4'
Sample Date	4/27/12	8/15/12	6/21/12	4/27/12	8/15/12	6/21/12	4/27/12	8/15/12	6/21/12	4/30/12	8/15/12	6/21/12
VOC												
1,2,3-Trichlorobenzene	<0.0143	NA	<0.02	<0.0149	NA	<0.023	<0.0178	NA	<0.023	<0.0148	NA	<0.024
1,2,4-Trichlorobenzene	<0.0143	NA	<0.022	<0.0149	NA	<0.025	<0.0178	NA	<0.025	<0.0148	NA	<0.026
1,2,4-Trimethylbenzene	0.0181 J, L, B	NA	<0.012	0.019 J, L, B	NA	<0.014	0.043 J, L, B	NA	<0.014	0.0195 J, L, B	NA	<0.014
1,3,5-Trimethylbenzene	<0.0244 L	NA	<0.012	<0.0255 L	NA	<0.013	<0.0304 L	NA	<0.014	<0.0254 L	NA	<0.014
Bromomethane	<0.0458	NA	<0.039	<0.0479	NA	<0.044	<0.057	NA	<0.046	<0.0476	NA	<0.047
Chloroform	<0.0113	NA	<0.012	<0.0118	NA	<0.013	<0.0141	NA	<0.014	<0.0117	NA	<0.014
cis-1,2-Dichloroethene	<0.0256	NA	<0.0071	<0.0267	NA	<0.008	<0.0319	NA	<0.0082	<0.0266	NA	<0.0084
Ethylbenzene	0.013 J, L, B	NA	<0.0073	<0.00435 L	NA	<0.0082	0.0104 J, L, B	NA	<0.0084	0.0162 J, L, B	NA	<0.0086
Hexachlorobutadiene	<0.0119 L	NA	<0.02	<0.0124 L	NA	<0.022 *	<0.0148 L	NA	<0.023	<0.0124 L	NA	<0.024
Methylene Chloride	0.0474 J, B	NA	<0.039	0.0515 J, B	NA	<0.044	0.0607 J, B	NA	<0.046	<0.0489	NA	<0.047
Naphthalene	<0.0791	NA	<0.029	<0.0827	NA	<0.032	<0.0985	NA	<0.033	<0.0822	NA	<0.034
n-Butylbenzene	<0.00951 L	NA	<0.0074	<0.00995 L	NA	<0.0084	0.0119 J, L, B	NA	<0.0086	<0.00989 L	NA	<0.0088
N-Propylbenzene	<0.00951 L	NA	<0.01	<0.00995 L	NA	<0.011	<0.0119 L	NA	<0.012	<0.00989 L	NA	<0.012
sec-Butylbenzene	<0.0113 L	NA	<0.0089	<0.0118 L	NA	<0.01	<0.0141 L	NA	<0.01	<0.0117 L	NA	<0.011
Tetrachloroethene	0.031 J	NA	1.5	0.0865 J	NA	0.071	0.0437 J	NA	<0.011	0.0695 J	NA	<0.011
Toluene	<0.00951	NA	<0.0066	<0.00995	NA	<0.0075	<0.0119	NA	<0.0077	<0.00989	NA	<0.0078
Trichloroethene	<0.0149	NA	<0.011	<0.0155	NA	<0.012	<0.0185	NA	<0.012	<0.0155	NA	<0.013
Xylenes, Total	<0.0131	NA	<0.0039	0.0159 J, B	NA	<0.0044	0.0259 J, B	NA	<0.0046	<0.0136	NA	<0.0047
PAH												
1-Methylnaphthalene	NA	<0.019	<0.018	NA	<0.019	<0.018	NA	<0.017	<0.018	NA	<0.018	<0.019
2-Methylnaphthalene	NA	<0.049	<0.047	NA	<0.049	<0.047	NA	<0.045	<0.048	NA	<0.048	<0.049
Acenaphthene	NA	<0.011	0.017 J	NA	<0.011	<0.011	NA	<0.01	<0.011	NA	0.013 J	<0.011
Acenaphthylene	NA	<0.0086	0.022 J	NA	<0.0087	<0.0082	NA	<0.0079	<0.0085	NA	<0.0084	<0.0087
Anthracene	NA	0.013 J	0.043	NA	0.017 J	<0.0084	NA	<0.0081	<0.0087	NA	0.046	<0.0089
Benzo(a)anthracene	NA	0.062	0.21	NA	0.082	<0.0075	NA	<0.0072	<0.0078	NA	0.32	0.013 J
Benzo(a)pyrene	NA	0.061	0.23	NA	0.089	<0.0065	NA	<0.0063	<0.0068	NA	0.3	0.011 J
Benzo(b)fluoranthene	NA	0.076	0.28	NA	0.11	0.0094 J	NA	<0.0067	<0.0072	NA	0.39	0.015 J
Benzo(g,h,i)perylene	NA	0.044	0.17	NA	0.066	<0.012	NA	<0.012	<0.013	NA	0.19	<0.013
Benzo(k)fluoranthene	NA	0.036 J	0.17	NA	0.049	<0.0085	NA	<0.0082	<0.0088	NA	0.16	<0.009
Chrysene	NA	0.07	0.23	NA	0.1	<0.0081	NA	0.0087 J	<0.0084	NA	0.39	0.012 J
Dibenz(a,h)anthracene	NA	<0.01	0.042	NA	0.018 J	<0.01	NA	<0.0096	<0.01	NA	0.057	<0.011

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Table 1. Summary of Off-Site Soil Analytical Results, Residential Properties, Madison-Kipp Corporation, Madison, Wisconsin.

Well/Boring	110-2			114-1			114-2			118-1		
	0-1'	0-1'	3-4'	0-1'	0-1'	3-4'	0-1'	0-1'	3-4'	0-1'	0-1'	3-4'
Sample Depth	0-1'	0-1'	3-4'	0-1'	0-1'	3-4'	0-1'	0-1'	3-4'	0-1'	0-1'	3-4'
Sample Date	4/27/12	8/15/12	6/21/12	4/27/12	8/15/12	6/21/12	4/27/12	8/15/12	6/21/12	4/30/12	8/15/12	6/21/12
PAH (continued)												
Fluoranthene	NA	0.12	0.49	NA	0.19	0.015 J	NA	<0.014	<0.015	NA	0.61	0.024 J
Fluorene	NA	<0.0085	0.021 J	NA	<0.0086	<0.0081	NA	<0.0078	<0.0084	NA	0.015 J	<0.0086
Indeno(1,2,3-cd)pyrene	NA	0.036 J	0.15	NA	0.051	<0.012	NA	<0.012	<0.013	NA	0.16	<0.013
Naphthalene	NA	<0.0072	0.009 J	NA	<0.0073	<0.0069	NA	<0.0066	<0.0071	NA	0.011 J	<0.0073
Phenanthrene	NA	0.058	0.21	NA	0.11	<0.015	NA	<0.014	<0.016	NA	0.26	<0.016
Pyrene	NA	0.11	0.4	NA	0.17	<0.013	NA	<0.012	<0.013	NA	0.49	0.02 J
Metal												
Arsenic	NA	4.4	7.4	NA	6.1	8.4	NA	2.2	7.5	NA	7.2	8.2
Barium	NA	120	200	NA	180	100	NA	19	110	NA	180	110
Cadmium	NA	0.25	1.2	NA	0.57	0.12 J	NA	0.42	0.13 J	NA	0.7	0.18 J
Chromium	NA	13	15	NA	16	21	NA	3	19	NA	15	19
Cyanide, Total	NA	<0.18	1.1	NA	<0.17	<0.1	NA	<0.13	<0.16	NA	<0.17	<0.14
Lead	NA	31	120	NA	72	16	NA	28	17	NA	160	30
Mercury	NA	0.034	1.2 B	NA	0.35	0.072 B	NA	<0.0053	0.037 B	NA	0.089	0.073 B
Selenium	NA	0.28 J	0.67 J	NA	0.55 J	<0.32	NA	<0.27	<0.31	NA	0.41 J	<0.3
Silver	NA	<0.06	1.8	NA	0.48 J	0.074 J	NA	<0.056	<0.066	NA	0.098 J	<0.063
PCBs												
Aroclor-1242	<0.00642	NA	<0.0059	<0.00672	NA	<0.0062	<0.00657	NA	<0.006	<0.00668	NA	<0.0062
Aroclor-1254	<0.00381	NA	<0.0039	<0.00398	NA	<0.0041	<0.00389	NA	<0.004	<0.00396	NA	<0.0041
Aroclor-1260	<0.00202	NA	0.096	<0.00211	NA	<0.0092	<0.00207	NA	<0.009	<0.0021	NA	<0.0092
Total Detected PCBs	ND	NA	0.096	ND	NA	ND	ND	NA	ND	ND	NA	ND

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Table 1. Summary of Off-Site Soil Analytical Results, Residential Properties, Madison-Kipp Corporation, Madison, Wisconsin.

Well/Boring	118-2			126-1			126-2			128-1		
	0-1'	0-1'	3-4'	0-1'	0-1'	3-4'	0-1'	0-1'	3-4'	0-1'	0-1'	3-4'
Sample Depth	0-1'	0-1'	3-4'	0-1'	0-1'	3-4'	0-1'	0-1'	3-4'	0-1'	0-1'	3-4'
Sample Date	4/30/12	8/15/12	6/21/12	4/30/12	8/15/12	6/21/12	4/30/12	8/15/12	6/21/12	4/30/12	8/15/12	6/21/12
VOC												
1,2,3-Trichlorobenzene	<0.0156	NA	<0.023	<0.0158	NA	<0.021	<0.0156	NA	<0.023	<0.0152	NA	<0.024
1,2,4-Trichlorobenzene	<0.0156	NA	<0.025	<0.0158	NA	<0.022	<0.0156	NA	<0.024	<0.0152	NA	<0.026
1,2,4-Trimethylbenzene	0.0178 J, L, B	NA	<0.014	<0.0105 L	NA	<0.013	0.0192 J, B, L	NA	<0.014	0.0174 J, L, B	NA	<0.015
1,3,5-Trimethylbenzene	<0.0267 L	NA	<0.014	<0.027 L	NA	<0.012	<0.0266 L	NA	<0.013	<0.026 L	NA	<0.014
Bromomethane	<0.0501	NA	<0.045	<0.0508	NA	<0.04	<0.0499	NA	<0.044	<0.0488	NA	<0.047
Chloroform	<0.0124	NA	<0.014	<0.0125	NA	<0.012	<0.0123	NA	<0.013	<0.012	NA	<0.014
cis-1,2-Dichloroethene	<0.028	NA	<0.0082	<0.0283	NA	<0.0073	<0.0279	NA	<0.0079	<0.0273	NA	<0.0085
Ethylbenzene	<0.00455 L	NA	<0.0084	<0.00461 L	NA	<0.0075	0.00822 J, L, B	NA	<0.0081	0.0139 J, L, B	NA	<0.0087
Hexachlorobutadiene	<0.013 L	NA	<0.023	<0.0132 L	NA	<0.021	<0.013 L	NA	<0.022 *	<0.0127 L	NA	<0.024 *
Methylene Chloride	<0.0514	NA	<0.045	<0.0521	NA	<0.04	<0.0512	NA	<0.044	<0.0501	NA	<0.047
Naphthalene	<0.0865	NA	<0.033	<0.0877	NA	<0.029	<0.0862	NA	<0.032	<0.0843	NA	<0.034
n-Butylbenzene	<0.0104 L	NA	<0.0086	<0.0105 L	NA	<0.0076	<0.0104 L	NA	<0.0083	<0.0101 L	NA	<0.0089
N-Propylbenzene	<0.0104 L	NA	<0.012	<0.0105 L	NA	<0.01	<0.0104 L	NA	<0.011	<0.0101 L	NA	<0.012
sec-Butylbenzene	<0.0124 L	NA	<0.01	<0.0125 L	NA	<0.0091	<0.0123 L	NA	<0.01	<0.012 L	NA	<0.011
Tetrachloroethene	0.102 J	NA	<0.011	0.0749 J	NA	<0.0099	0.0986 J	NA	<0.011	0.0168 J	NA	<0.012
Toluene	<0.0104	NA	<0.0077	<0.0105	NA	<0.0068	<0.0104	NA	<0.0074	0.0127 J	NA	<0.0079
Trichloroethene	<0.0163	NA	<0.012	<0.0165	NA	<0.011	<0.0162	NA	<0.012	<0.0158	NA	<0.013
Xylenes, Total	<0.0143	NA	<0.0046	0.0167 J, B	NA	<0.0041	0.0178 J, B	NA	<0.0044	<0.0139	NA	<0.0047
PAH												
1-Methylnaphthalene	NA	<0.019	<0.019	NA	0.033 J	<0.02	NA	<0.019	<0.019	NA	<0.018	<0.02
2-Methylnaphthalene	NA	<0.049	<0.049	NA	<0.048	<0.053	NA	<0.048	<0.05	NA	<0.048	<0.052
Acenaphthene	NA	<0.011	<0.011	NA	<0.011	<0.012	NA	<0.011	<0.011	NA	<0.011	<0.012
Acenaphthylene	NA	<0.0087	<0.0086	NA	<0.0085	<0.0094	NA	<0.0086	<0.0088	NA	<0.0084	<0.0091
Anthracene	NA	0.016 J	0.012 J	NA	0.022 J	<0.0096	NA	0.019 J	<0.009	NA	0.018 J	<0.0093
Benzo(a)anthracene	NA	0.096	0.013 J	NA	0.13	<0.0085	NA	0.098	<0.008	NA	0.11	<0.0083
Benzo(a)pyrene	NA	0.1	0.0084 J	NA	0.12	<0.0074	NA	0.11	<0.007	NA	0.11	<0.0072
Benzo(b)fluoranthene	NA	0.13	0.0093 J	NA	0.18	<0.0079	NA	0.15	<0.0074	NA	0.13	<0.0077
Benzo(g,h,i)perylene	NA	0.08	<0.013	NA	0.085	<0.014	NA	0.077	<0.013	NA	0.077	<0.013
Benzo(k)fluoranthene	NA	0.07	<0.0089	NA	0.06	<0.0097	NA	0.061	<0.0091	NA	0.087	<0.0095
Chrysene	NA	0.12	0.0096 J	NA	0.15	<0.0092	NA	0.14	<0.0086	NA	0.13	<0.009
Dibenz(a,h)anthracene	NA	0.024 J	<0.01	NA	0.022 J	<0.011	NA	0.021 J	<0.011	NA	<0.01	<0.011

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Table 1. Summary of Off-Site Soil Analytical Results, Residential Properties, Madison-Kipp Corporation, Madison, Wisconsin.

Well/Boring	118-2			126-1			126-2			128-1		
	0-1'	0-1'	3-4'	0-1'	0-1'	3-4'	0-1'	0-1'	3-4'	0-1'	0-1'	3-4'
Sample Depth	0-1'	0-1'	3-4'	0-1'	0-1'	3-4'	0-1'	0-1'	3-4'	0-1'	0-1'	3-4'
Sample Date	4/30/12	8/15/12	6/21/12	4/30/12	8/15/12	6/21/12	4/30/12	8/15/12	6/21/12	4/30/12	8/15/12	6/21/12
PAH (continued)												
Fluoranthene	NA	0.18	0.031 J	NA	0.29	<0.017	NA	0.23	<0.016	NA	0.2	<0.016
Fluorene	NA	<0.0086	<0.0085	NA	0.0085 J	<0.0093	NA	<0.0085	<0.0087	NA	<0.0083	<0.009
Indeno(1,2,3-cd)pyrene	NA	0.064	<0.013	NA	0.074	<0.014	NA	0.064	<0.013	NA	0.069	<0.013
Naphthalene	NA	<0.0073	<0.0072	NA	0.02 J	<0.0079	NA	<0.0072	0.013 J	NA	<0.0071	<0.0077
Phenanthrene	NA	0.096	0.032 J	NA	0.14	<0.017	NA	0.12	<0.016	NA	0.08	<0.017
Pyrene	NA	0.22	0.021 J	NA	0.22	<0.015	NA	0.21	<0.014	NA	0.17	<0.014
Metal												
Arsenic	NA	6.9	7.5	NA	5.3	8.2	NA	6.2	8	NA	5.3	7.6
Barium	NA	200	81	NA	140	89	NA	170	110	NA	180	93
Cadmium	NA	5	0.12 J	NA	0.54	0.10 J	NA	0.7	0.13 J	NA	0.48	0.10 J
Chromium	NA	15	18	NA	15	20	NA	14	19	NA	17	19
Cyanide, Total	NA	<0.16	<0.11	NA	<0.17	<0.19	NA	<0.15	0.13 J	NA	<0.18	0.23 J
Lead	NA	170	16	NA	74	14	NA	97	15	NA	62	13
Mercury	NA	0.11	0.054 B	NA	0.057	0.057 B	NA	0.04	0.078 B	NA	0.052	0.03 B
Selenium	NA	0.52 J	<0.3	NA	<0.32	<0.34	NA	0.48 J	<0.31	NA	0.41 J	<0.32
Silver	NA	0.18 J	<0.063	NA	<0.067	<0.071	NA	<0.066	<0.066	NA	<0.067	<0.066
PCBs												
Aroclor-1242	<0.00702	NA	<0.0061	<0.00712	NA	<0.0068	<0.007	NA	<0.0063	<0.00684	NA	<0.0063
Aroclor-1254	<0.00416	NA	<0.004	<0.00422	NA	<0.0045	<0.00415	NA	<0.0041	<0.00406	NA	<0.0042
Aroclor-1260	<0.00221	NA	<0.0091	<0.00224	NA	<0.01	<0.0022	NA	<0.0094	<0.00215	NA	<0.0095
Total Detected PCBs	ND	NA	ND	ND	NA	ND	ND	NA	ND	ND	NA	ND

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Table 1. Summary of Off-Site Soil Analytical Results, Residential Properties, Madison-Kipp Corporation, Madison, Wisconsin.

Well/Boring	128-2			130-1			134-1			134-2		
	0-1'	0-1'	3-4'	0-1'	0-1'	3-4'	0-1'	0-1'	3-4'	0-1'	0-1'	3-4'
Sample Depth	4/30/12	8/15/12	6/21/12	4/30/12	8/15/12	6/22/12	4/30/12	8/15/12	6/22/12	4/30/12	8/15/12	6/22/12
Sample Date												
VOC												
1,2,3-Trichlorobenzene	<0.0157	NA	<0.019	<0.0159	NA	<0.021	<0.0162	NA	<0.025	<0.0152	NA	<0.023
1,2,4-Trichlorobenzene	<0.0157	NA	<0.021	<0.0159	NA	<0.022	<0.0162	NA	<0.027	<0.0152	NA	<0.025
1,2,4-Trimethylbenzene	0.0184 J, B, L	NA	<0.012	<0.0106 L	NA	<0.012	0.0162 J, B, L	NA	<0.015	0.0118 J, B, L	NA	<0.014
1,3,5-Trimethylbenzene	<0.0267 L	NA	<0.011	<0.0271 L	NA	<0.012	<0.0277 L	NA	<0.015	<0.026 L	NA	<0.014
Bromomethane	<0.0502	NA	<0.037	<0.0509	NA	<0.04	<0.052	NA	<0.048	<0.0488	NA	<0.045
Chloroform	<0.0124	NA	<0.011	<0.0126	NA	<0.012	<0.0128	NA	<0.014	<0.012	NA	<0.014
cis-1,2-Dichloroethene	<0.0281	NA	<0.0068	<0.0284	NA	<0.0073	<0.029	NA	<0.0087	<0.0272	NA	<0.0081
Ethylbenzene	0.00525 J, L, B	NA	<0.0069	<0.00463 L	NA	<0.0074	<0.00472 L	NA	<0.0089	<0.00444 L	NA	<0.0083
Hexachlorobutadiene	<0.013 L	NA	<0.019 *	<0.0132 L	NA	<0.02 *	<0.0135 L	NA	<0.024 *	<0.0127 L	NA	<0.023 *
Methylene Chloride	0.0558 J, B	NA	<0.038	<0.0522	NA	<0.04	<0.0533	NA	<0.048	<0.0501	NA	<0.045
Naphthalene	<0.0868	NA	<0.027	<0.088	NA	<0.029	<0.0897	NA	<0.035	<0.0843	NA	<0.033
n-Butylbenzene	<0.0104 L	NA	<0.0071	<0.0106 L	NA	<0.0076	<0.0108 L	NA	<0.0091	<0.0101 L	NA	<0.0085
N-Propylbenzene	<0.0104 L	NA	<0.0096	<0.0106 L	NA	<0.01	<0.0108 L	NA	<0.012	<0.0101 L	NA	<0.012
sec-Butylbenzene	<0.0124 L	NA	<0.0085	<0.0126 L	NA	<0.0091	0.0148 J, L	NA	<0.011	<0.012 L	NA	<0.01
Tetrachloroethene	<0.0104	NA	<0.0092	0.0524 J	NA	<0.0099	0.0528 J	NA	<0.012	0.0912 J	NA	<0.011
Toluene	<0.0104	NA	<0.0063	<0.0106	NA	<0.0068	<0.0108	NA	<0.0081	<0.0101	NA	<0.0076
Trichloroethene	<0.0163	NA	<0.01	<0.0165	NA	<0.011	<0.0169	NA	<0.013	<0.0158	NA	<0.012
Xylenes, Total	0.0151 J, B	NA	<0.0038	0.0147 J, B	NA	<0.004	<0.0148	NA	<0.0048	0.0147 J, B	NA	<0.0045
PAH												
1-Methylnaphthalene	NA	<0.018	<0.019	NA	<0.02	<0.02	NA	<0.02	<0.02	NA	<0.019	<0.019
2-Methylnaphthalene	NA	<0.048	<0.048	NA	<0.053	<0.052	NA	<0.051	<0.052	NA	<0.05	<0.05
Acenaphthene	NA	<0.011	<0.011	NA	<0.012	<0.012	NA	<0.012	<0.012	NA	<0.011	<0.011
Acenaphthylene	NA	<0.0084	<0.0086	NA	<0.0094	<0.0091	NA	<0.0091	<0.0093	NA	0.011 J	<0.0088
Anthracene	NA	0.017 J	<0.0088	NA	<0.0096	<0.0093	NA	0.021 J	<0.0095	NA	0.03 J	<0.009
Benzo(a)anthracene	NA	0.084	<0.0078	NA	0.047	0.016 J	NA	0.11	<0.0085	NA	0.087	<0.008
Benzo(a)pyrene	NA	0.08	<0.0068	NA	0.05	0.014 J	NA	0.12	<0.0074	NA	0.087	<0.007
Benzo(b)fluoranthene	NA	0.12	<0.0072	NA	0.066	0.018 J	NA	0.16	<0.0078	NA	0.11	<0.0074
Benzo(g,h,i)perylene	NA	0.058	<0.013	NA	0.04 J	<0.013	NA	0.085	<0.014	NA	0.069	<0.013
Benzo(k)fluoranthene	NA	0.053	<0.0089	NA	0.031 J	0.013 J	NA	0.061	<0.0096	NA	0.061	<0.0091
Chrysene	NA	0.1	<0.0084	NA	0.056	0.017 J	NA	0.14	<0.0091	NA	0.11	<0.0086
Dibenz(a,h)anthracene	NA	0.015 J	<0.01	NA	<0.011	<0.011	NA	0.022 J	<0.011	NA	0.017 J	<0.011

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Table 1. Summary of Off-Site Soil Analytical Results, Residential Properties, Madison-Kipp Corporation, Madison, Wisconsin.

Well/Boring	128-2			130-1			134-1			134-2		
	0-1' 4/30/12	0-1' 8/15/12	3-4' 6/21/12	0-1' 4/30/12	0-1' 8/15/12	3-4' 6/22/12	0-1' 4/30/12	0-1' 8/15/12	3-4' 6/22/12	0-1' 4/30/12	0-1' 8/15/12	3-4' 6/22/12
PAH (continued)												
Fluoranthene	NA	0.18	<0.015	NA	0.092	0.041	NA	0.26	<0.017	NA	0.2	<0.016
Fluorene	NA	<0.0083	<0.0085	NA	<0.0093	<0.009	NA	<0.009	<0.0092	NA	0.0094 J	<0.0087
Indeno(1,2,3-cd)pyrene	NA	0.052	<0.013	NA	0.032 J	<0.013	NA	0.072	<0.014	NA	0.055	<0.013
Naphthalene	NA	<0.0071	<0.0072	NA	<0.0079	<0.0077	NA	<0.0076	<0.0078	NA	<0.0074	<0.0074
Phenanthrene	NA	0.088	<0.016	NA	0.034 J	<0.017	NA	0.11	<0.017	NA	0.092	<0.016
Pyrene	NA	0.14	<0.013	NA	0.082	0.027 J	NA	0.19	<0.015	NA	0.15	<0.014
Metal												
Arsenic	NA	5.7	7.4	NA	6	8.1	NA	10	8.3	NA	5.7	7.4
Barium	NA	200	120	NA	130	120	NA	200	120	NA	220	100 V
Cadmium	NA	0.88	0.24	NA	0.47	0.14 J	NA	0.54	0.12 J	NA	0.49	0.12 J
Chromium	NA	15	18	NA	14	18	NA	13	20	NA	12	17 V
Cyanide, Total	NA	<0.18	1.6	NA	<0.2	<0.2	NA	<0.15	0.25 J B	NA	<0.19	<0.19
Lead	NA	140	53	NA	49	15	NA	100	16	NA	92	14
Mercury	NA	0.084	0.067 B	NA	0.22	0.041 B	NA	0.034	0.041 B	NA	0.076	0.038 B
Selenium	NA	0.33 J	<0.3	NA	<0.32	<0.3	NA	0.46 J	<0.34	NA	0.43 J	<0.3
Silver	NA	<0.068	<0.062	NA	0.22 J	<0.064	NA	0.070 J	<0.071	NA	0.11 J	<0.062
PCBs												
Aroclor-1242	<0.00705	NA	<0.0062	<0.00714	NA	<0.0067	<0.00729	NA	<0.0069	<0.00684	NA	<0.0063
Aroclor-1254	<0.00418	NA	<0.0041	<0.00423	NA	<0.0044	<0.00432	NA	<0.0046	<0.00406	NA	<0.0042
Aroclor-1260	<0.00222	NA	<0.0093	<0.00225	NA	<0.0099	<0.00229	NA	<0.01	<0.00215	NA	<0.0095
Total Detected PCBs	ND	NA	ND	ND	NA	ND	ND	NA	ND	ND	NA	ND

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Table 1. Summary of Off-Site Soil Analytical Results, Residential Properties, Madison-Kipp Corporation, Madison, Wisconsin.

Well/Boring	138-1		138-2		142-1			142-2			146-1	
	0-1'	3-4'	0-1'	3-4'	0-1'	0-1'	3-4'	0-1'	0-1'	3-4'	0-1'	3-4'
Sample Depth	7/20/12	7/20/12	7/20/12	7/20/12	4/30/12	8/15/12	6/22/12	4/30/12	8/15/12	6/22/12	6/25/12	6/25/12
Sample Date	7/20/12	7/20/12	7/20/12	7/20/12	4/30/12	8/15/12	6/22/12	4/30/12	8/15/12	6/22/12	6/25/12	6/25/12
VOC												
1,2,3-Trichlorobenzene	<0.02	<0.02	<0.021	<0.018	<0.0153	NA	<0.023	<0.0151	NA	<0.022	<0.019	<0.02
1,2,4-Trichlorobenzene	<0.021	<0.022	<0.023	<0.019	<0.0153	NA	<0.024	<0.0151	NA	<0.023	<0.021	<0.022
1,2,4-Trimethylbenzene	<0.012	<0.012	<0.013	<0.011	0.0147 J, B, L	NA	<0.014	0.0147 J, B, L	NA	<0.013	<0.012	<0.012
1,3,5-Trimethylbenzene	<0.012	<0.012	<0.012	<0.01	<0.0262 L	NA	<0.013	<0.0258 L	NA	<0.013	<0.011	<0.012
Bromomethane	<0.038	<0.039	<0.041	<0.034	<0.0491	NA	<0.044	<0.0485	NA	<0.042	<0.037	<0.039
Chloroform	<0.012	<0.012	<0.012	<0.01	<0.0121	NA	<0.013	<0.012	NA	<0.013	<0.011 *	<0.012 *
cis-1,2-Dichloroethene	<0.0069	<0.007	<0.0074	<0.0062	<0.0274	NA	<0.0079	<0.0271	NA	<0.0076	<0.0067	<0.0071
Ethylbenzene	<0.0071	<0.0072	<0.0076	<0.0063	<0.00447 L	NA	<0.0081	<0.00441 L	NA	<0.0078	<0.0069	<0.0073
Hexachlorobutadiene	<0.019	<0.02	<0.021	<0.017	<0.0128 L	NA	<0.022	<0.0126 L	NA	<0.021	<0.019	<0.02
Methylene Chloride	<0.038	<0.039	<0.041	<0.034	0.0603 J, B	NA	<0.044	<0.0497	NA	<0.042	<0.037	<0.039
Naphthalene	<0.028	<0.028	<0.03	<0.025	<0.0849	NA	<0.032	<0.0837	NA	<0.031	0.089 J	<0.029
n-Butylbenzene	<0.0073	<0.0074	<0.0078	<0.0065	<0.0102 L	NA	<0.0083	<0.0101 L	NA	<0.008	<0.007	<0.0074
N-Propylbenzene	<0.0099	<0.01	<0.011	<0.0088	<0.0102 L	NA	<0.011	<0.0101 L	NA	<0.011	<0.0096	<0.01
sec-Butylbenzene	<0.0087	<0.0088	<0.0093	<0.0077	0.0126 J, L	NA	<0.0099	<0.012 L	NA	<0.0096	<0.0084	<0.0089
Tetrachloroethene	<0.0094	<0.0096	<0.01	<0.0084	0.0372 J	NA	0.044 J	0.0922 J	NA	0.039 J	<0.0091	<0.0096
Toluene	<0.0065	<0.0066	<0.0069	<0.0058	<0.0102	NA	<0.0074	<0.0101	NA	<0.0071	<0.0063	<0.0066
Trichloroethene	<0.01	<0.011	<0.011	<0.0093	<0.016	NA	<0.012	<0.0157	NA	<0.012	<0.01	<0.011
Xylenes, Total	<0.0039	<0.0039	<0.0041	<0.0034	<0.014	NA	<0.0044	0.0175 J, B	NA	<0.0042	<0.0037	<0.0039
PAH												
1-Methylnaphthalene	<0.018	<0.019	<0.02	<0.017	NA	<0.018	<0.018	NA	<0.019	<0.019	<0.019	<0.019
2-Methylnaphthalene	<0.048	<0.049	<0.052	<0.045	NA	<0.048	<0.048	NA	<0.05	<0.049	<0.049	<0.049
Acenaphthene	<0.011	<0.011	<0.012	<0.01	NA	<0.011	<0.011	NA	<0.011	<0.011	<0.011	<0.011
Acenaphthylene	<0.0085	<0.0087	<0.0092	<0.0079	NA	<0.0084	<0.0085	NA	<0.0088	<0.0086	<0.0087	<0.0086
Anthracene	<0.0087	<0.0089	0.014 J	<0.0081	NA	0.026 J	<0.0087	NA	0.02 J	<0.0088	<0.0089	<0.0088
Benzo(a)anthracene	0.048	<0.008	0.077	<0.0072	NA	0.13	0.0093 J	NA	0.1	0.023 J	0.013 J	<0.0079
Benzo(a)pyrene	0.052	<0.0069	0.076	<0.0063	NA	0.17	<0.0067	NA	0.12	0.02 J	0.014 J	<0.0069
Benzo(b)fluoranthene	0.068	<0.0074	0.093	<0.0067	NA	0.19	0.0077 J	NA	0.15	0.031 J	0.017 J	<0.0073
Benzo(g,h,i)perylene	0.042	<0.013	0.075	<0.012	NA	0.35	<0.012	NA	0.1	0.016 J	0.015 J	<0.013
Benzo(k)fluoranthene	0.031 J	<0.0091	0.052	<0.0082	NA	0.076	<0.0088	NA	0.091	0.012 J	0.0092 J	<0.009
Chrysene	0.058	<0.0086	0.083	<0.0078	NA	0.17	<0.0083	NA	0.15	0.027 J	0.015 J	<0.0085
Dibenz(a,h)anthracene	0.01 J	<0.011	0.024 J	<0.0096	NA	0.14	<0.01	NA	0.026 J	<0.01	<0.011	<0.011

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Table 1. Summary of Off-Site Soil Analytical Results, Residential Properties, Madison-Kipp Corporation, Madison, Wisconsin.

Well/Boring	138-1		138-2		142-1			142-2			146-1	
	0-1'	3-4'	0-1'	3-4'	0-1'	0-1'	3-4'	0-1'	0-1'	3-4'	0-1'	3-4'
Sample Depth	0-1'	3-4'	0-1'	3-4'	0-1'	0-1'	3-4'	0-1'	0-1'	3-4'	0-1'	3-4'
Sample Date	7/20/12	7/20/12	7/20/12	7/20/12	4/30/12	8/15/12	6/22/12	4/30/12	8/15/12	6/22/12	6/25/12	6/25/12
PAH (continued)												
Fluoranthene	0.098	<0.016	0.16	<0.014	NA	0.28	0.018 J	NA	0.23	0.053	0.023 J	<0.015
Fluorene	<0.0084	<0.0086	<0.0091	<0.0078	NA	0.011 J	<0.0084	NA	0.0092 J	<0.0085	<0.0086	<0.0086
Indeno(1,2,3-cd)pyrene	0.036 J	<0.013	0.063	<0.012	NA	0.18	<0.012	NA	0.071	<0.013	<0.013	<0.013
Naphthalene	<0.0071	<0.0073	<0.0077	<0.0066	NA	0.0079 J	<0.0071	NA	<0.0074	<0.0072	<0.0073	<0.0072
Phenanthrene	0.045	<0.016	0.079	<0.014	NA	0.15	<0.015	NA	0.12	0.022 J	<0.016	<0.016
Pyrene	0.075	<0.014	0.12	<0.012	NA	0.24	<0.013	NA	0.2	0.035 J	0.021 J	<0.014
Metal												
Arsenic	6.4	8.2	6.3	3.8	NA	7.8	8	NA	8.1	7.1	5.8	9.2
Barium	190	100	200	98	NA	310	110	NA	230	110	120	130
Cadmium	0.46	0.15 J	0.91	0.15 J	NA	0.81	0.15 J	NA	0.99	0.18 J	0.28	0.25
Chromium	13	21	17	20	NA	16	19	NA	17	17	15	19
Cyanide, Total	0.25 J	<0.14	0.26 J	<0.14	NA	0.49	<0.19	NA	0.39 J	<0.19	0.30 J	<0.19
Lead	47	16	110	10	NA	280	24	NA	470	44	24	18
Mercury	0.071	0.038	0.081	0.029	NA	0.067	0.061 B	NA	0.11	0.035 B	0.043	0.043
Selenium	0.82 J	0.53 J	0.92 J	0.30 J	NA	0.83 J	<0.32	NA	0.64 J	<0.3	0.45 J	0.69 J
Silver	0.083 J	<0.066	0.10 J	<0.062	NA	0.083 J	<0.067	NA	0.19 J	<0.062	<0.061	<0.069
PCBs												
Aroclor-1242	<0.006	<0.0062	<0.0066	<0.0057	<0.00689	NA	<0.0063	<0.0068	NA	<0.0062	<0.0062	<0.0061
Aroclor-1254	0.03	0.007 J	0.072	0.005 J	<0.00408	NA	0.0097 J	<0.00403	NA	0.016 J	<0.0041	<0.004
Aroclor-1260	<0.009	<0.0093	<0.0099	<0.0085	<0.00217	NA	<0.0094	<0.00214	NA	<0.0093	<0.0092	<0.0092
Total Detected PCBs	0.03	0.007	0.072	0.005	ND	NA	0.0097	ND	NA	0.016	ND	ND

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Table 1. Summary of Off-Site Soil Analytical Results, Residential Properties, Madison-Kipp Corporation, Madison, Wisconsin.

Well/Boring	146-2		150-1		150-2		154-1		162-1	162-2		166-1	
	0-1'	3-4'	0-1'	3-4'	0-1'	3-4'	0-1'	3-4'	0-1'	0-1'	3-4'	0-1'	3-4'
Sample Depth	0-1'	3-4'	0-1'	3-4'	0-1'	3-4'	0-1'	3-4'	0-1'	0-1'	3-4'	0-1'	3-4'
Sample Date	6/25/12	6/25/12	6/25/12	6/25/12	6/25/12	6/25/12	6/25/12	6/25/12	6/26/12	6/26/12	6/26/12	6/26/12	6/26/12
VOC													
1,2,3-Trichlorobenzene	<0.02	<0.02	<0.02	<0.031	<0.023	<0.023	<0.023	<0.023	<0.033	<0.023	<0.023	<0.021	<0.022
1,2,4-Trichlorobenzene	<0.021	<0.022	<0.022	<0.033	<0.025	<0.025	<0.025	<0.025	<0.036	<0.025	<0.025	<0.022	<0.024
1,2,4-Trimethylbenzene	<0.012	<0.012	<0.012	<0.019	<0.014	<0.014	<0.014	<0.014	<0.02	<0.014	<0.014	<0.012	<0.014
1,3,5-Trimethylbenzene	<0.012	<0.012	<0.012	<0.018	<0.014	<0.014	<0.014	<0.013	<0.019	<0.014	<0.014	<0.012	<0.013
Bromomethane	<0.039	<0.039	<0.04	<0.06	<0.045	<0.045	<0.046	<0.045	<0.064	<0.046	<0.045	<0.04	<0.044
Chloroform	<0.012 *	<0.012 *	<0.012 *	<0.018 *	<0.014 *	<0.013 *	<0.014 *	<0.013 *	<0.019 *	<0.014 *	<0.014 *	<0.012 *	<0.013 *
cis-1,2-Dichloroethene	<0.007	<0.0071	<0.0071	<0.011	<0.0082	<0.0081	<0.0082	<0.0081	<0.012	<0.0082	<0.0081	<0.0073	<0.0079
Ethylbenzene	<0.0071	<0.0072	<0.0073	<0.011	<0.0084	<0.0083	<0.0084	<0.0083	<0.012	<0.0084	<0.0083	<0.0075	<0.0081
Hexachlorobutadiene	<0.02	<0.02	<0.02	<0.03	<0.023	<0.023	<0.023	<0.023	<0.033	<0.023	<0.023	<0.02	<0.022
Methylene Chloride	<0.039	<0.039	<0.04	<0.06	<0.045	<0.045	<0.046	<0.045	<0.064	<0.046	<0.045	<0.04	<0.044
Naphthalene	<0.028	<0.028	<0.029	<0.043	<0.033	<0.032	<0.033	<0.032	<0.047	<0.033	<0.033	<0.029	<0.032
n-Butylbenzene	<0.0073	<0.0074	<0.0075	<0.011	<0.0086	<0.0085	<0.0086	<0.0084	<0.012	<0.0086	<0.0085	<0.0076	<0.0083
N-Propylbenzene	<0.0099	<0.01	<0.01	<0.015	<0.012	<0.011	<0.012	<0.011	<0.016	<0.012	<0.012	<0.01	<0.011
sec-Butylbenzene	<0.0087	<0.0088	<0.0089	<0.014	<0.01	<0.01	<0.01	<0.01	<0.015	<0.01	<0.01	<0.0091	<0.0099
Tetrachloroethene	0.83	<0.0096	0.45	0.064 J	0.24	0.096	0.53	0.076	<0.016	<0.011	<0.011	<0.0099	<0.011
Toluene	<0.0065	<0.0066	<0.0067	<0.01	<0.0076	<0.0076	<0.0077	<0.0075	<0.011	<0.0077	<0.0076	<0.0068	<0.0074
Trichloroethene	<0.011	<0.011	<0.011	<0.016	<0.012	<0.012	<0.012	<0.012	<0.018	<0.012	<0.012	<0.011	<0.012
Xylenes, Total	<0.0039	<0.0039	<0.004	<0.006	<0.0045	<0.0045	<0.0046	<0.0045	<0.0064	<0.0046	<0.0045	<0.004	<0.0044
PAH													
1-Methylnaphthalene	<0.018	<0.018	<0.017	<0.019	<0.017	<0.019	<0.018	<0.019	<0.023	<0.018	<0.018	<0.017	<0.019
2-Methylnaphthalene	<0.047	<0.048	<0.045	<0.049	<0.044	<0.05	<0.048	<0.05	<0.061	<0.047	<0.048	<0.045	<0.048
Acenaphthene	<0.011	<0.011	0.012 J	<0.011	<0.01	<0.012	<0.011	<0.011	<0.014	<0.011	<0.011	<0.01	<0.011
Acenaphthylene	<0.0083	<0.0085	0.0083 J	<0.0086	<0.0079	<0.0089	0.075	<0.0088	<0.011	<0.0083	<0.0085	<0.008	<0.0086
Anthracene	<0.0084	<0.0087	0.028 J	<0.0088	<0.008	<0.0091	0.033 J	0.013 J	<0.011	<0.0085	<0.0087	0.019 J	<0.0088
Benzo(a)anthracene	0.031 J	<0.0078	0.11	0.011 J	0.022 J	<0.0081	0.13	0.018 J	0.041 J	0.021 J	<0.0077	0.071	<0.0078
Benzo(a)pyrene	0.031 J	<0.0068	0.11	0.026 J	0.021 J	<0.007	0.18	0.017 J	0.041 J	0.021 J	<0.0067	0.067	<0.0068
Benzo(b)fluoranthene	0.045	<0.0072	0.15	0.054	0.032 J	<0.0075	0.21	0.022 J	0.052	0.033 J	<0.0072	0.1	<0.0072
Benzo(g,h,i)perylene	0.032 J	<0.013	0.074	0.076	0.017 J	<0.013	0.15	0.013 J	0.035 J	0.018 J	<0.012	0.051	<0.013
Benzo(k)fluoranthene	0.017 J	<0.0089	0.058	0.017 J	0.014 J	<0.0092	0.065	0.0095 J	0.027 J	0.014 J	<0.0088	0.058	<0.0089
Chrysene	0.039	<0.0084	0.12	0.035 J	0.027 J	<0.0087	0.16	0.018 J	0.047	0.028 J	<0.0083	0.083	<0.0084
Dibenz(a,h)anthracene	0.011 J	<0.01	0.022 J	0.02 J	<0.0095	<0.011	0.038	<0.011	<0.013	<0.01	<0.01	0.018 J	<0.01

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Table 1. Summary of Off-Site Soil Analytical Results, Residential Properties, Madison-Kipp Corporation, Madison, Wisconsin.

Well/Boring	146-2		150-1		150-2		154-1		162-1	162-2		166-1	
	0-1'	3-4'	0-1'	3-4'	0-1'	3-4'	0-1'	3-4'	0-1'	0-1'	3-4'	0-1'	3-4'
Sample Depth	0-1'	3-4'	0-1'	3-4'	0-1'	3-4'	0-1'	3-4'	0-1'	0-1'	3-4'	0-1'	3-4'
Sample Date	6/25/12	6/25/12	6/25/12	6/25/12	6/25/12	6/25/12	6/25/12	6/25/12	6/26/12	6/26/12	6/26/12	6/26/12	6/26/12
PAH (continued)													
Fluoranthene	0.056	<0.015	0.24	0.016 J	0.042	<0.016	0.2	0.034 J	0.09	0.047	<0.015	0.15	<0.015
Fluorene	<0.0082	<0.0084	0.011 J	<0.0085	<0.0078	<0.0088	0.014 J	<0.0087	<0.011	<0.0082	<0.0084	<0.0079	<0.0085
Indeno(1,2,3-cd)pyrene	0.026 J	<0.013	0.064	0.042	0.016 J	<0.013	0.11	<0.013	0.027 J	0.015 J	<0.012	0.043	<0.013
Naphthalene	<0.0069	<0.0072	0.0072 J	<0.0072	<0.0066	<0.0074	0.0088 J	<0.0074	<0.0091	<0.007	<0.0071	<0.0067	<0.0072
Phenanthrene	0.035 J	<0.016	0.14	<0.016	0.024 J	<0.016	0.1	<0.016	0.052	0.029 J	<0.015	0.11	<0.016
Pyrene	0.052	<0.013	0.2	0.02 J	0.036	<0.014	0.21	0.024 J	0.084	0.038	<0.013	0.13	<0.013
Metal													
Arsenic	5.7	8.7	6.8	8.9	6	10	8.5	9.2	8.8	8.7	9.5	5.3	9.5
Barium	170	110	200	130	190	120	180	110	130	120	120	160	120
Cadmium	0.51	0.14 J	1	0.25	0.66	0.15 J	0.84	0.21	0.28	0.26	0.18 J	0.55	0.17 J
Chromium	14	19	18	19	12	22	22	19	18	19	19	12	19
Cyanide, Total	0.19 J	<0.14	0.19 J	<0.16	0.18 J	<0.15	<0.15	<0.16	<0.2	<0.11	<0.13	<0.16	<0.14
Lead	64	15	140	26	300	15	82	15	36	43	20	30	14
Mercury	0.21	0.057	0.19	0.059	0.065	0.042	0.085	0.091	0.064	0.049	0.064	0.06	0.059
Selenium	0.70 J	0.66 J	0.95 J	0.53 J	1.2	0.60 J	0.96 J	0.61 J	0.94 J	0.67 J	0.73 J	0.85 J	0.58 J
Silver	0.32 J	<0.063	0.28 J	<0.066	0.13 J	<0.07	2	<0.064	<0.085	<0.059	<0.068	<0.062	<0.067
PCBs													
Aroclor-1242	<0.0057	<0.0062	0.094	<0.0063	0.02	<0.0063	<0.0062	<0.0062	<0.0078	<0.006	<0.006	<0.0057	<0.006
Aroclor-1254	0.11	<0.0041	0.079	<0.0041	0.036	<0.0041	0.019	<0.0041	<0.0051	<0.0039	<0.004	<0.0037	<0.004
Aroclor-1260	<0.0085	<0.0093	<0.009	<0.0094	<0.0086	<0.0093	<0.0092	<0.0092	<0.012	<0.009	<0.009	<0.0085	<0.009
Total Detected PCBs	0.11	ND	0.173	ND	0.056	ND	0.019	ND	ND	ND	ND	ND	ND

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Table 1. Summary of Off-Site Soil Analytical Results, Residential Properties, Madison-Kipp Corporation, Madison, Wisconsin.

Well/Boring	166-2		202-1		202-2		206-1		206-2		210-1	
Sample Depth	0-1'	0-1'	3-4'	0-1'	3-4'	0-1'	3-3.7	0-1'	3-4'	0-1'	3-4'	
Sample Date	6/26/12	6/26/12	6/26/12	6/26/12	6/26/12	8/22/2012	8/22/2012	8/22/2012	8/22/2012	8/17/2012	8/17/2012	
VOC												
1,2,3-Trichlorobenzene	<0.023	<0.021	<0.026	<0.021	<0.02	<0.023	<0.02	<0.02	<0.019	<0.026	<0.023	
1,2,4-Trichlorobenzene	<0.025	<0.022	<0.028	<0.022	<0.022	<0.024	<0.021	<0.021	<0.021	<0.028	<0.024	
1,2,4-Trimethylbenzene	<0.014	<0.012	<0.016	<0.012	<0.012	<0.014	<0.012	<0.012	<0.012	<0.016	<0.014	
1,3,5-Trimethylbenzene	<0.014	<0.012	<0.015	<0.012	<0.012	<0.013	<0.012	<0.012	<0.011	<0.015	<0.013	
Bromomethane	<0.045	<0.04	<0.051	<0.04	<0.04	<0.044	<0.039	<0.039	<0.038	<0.051	<0.044	
Chloroform	<0.014 *	<0.012 *	<0.015 *	<0.012	<0.012	<0.013	<0.012	<0.012	<0.011	<0.015	<0.013	
cis-1,2-Dichloroethene	<0.0081	<0.0073	<0.0092	<0.0072	<0.0072	<0.008	<0.007	<0.007	<0.0068	<0.0092	<0.0079	
Ethylbenzene	<0.0083	<0.0074	0.027	<0.0074	0.015	<0.0082	<0.0071	<0.0071	<0.007	<0.0094	<0.0081	
Hexachlorobutadiene	<0.023	<0.02	<0.026	<0.02	<0.02	<0.022	<0.02	<0.02	<0.019	<0.026	<0.022	
Methylene Chloride	<0.045	<0.04	<0.051	<0.04	<0.04	<0.044	<0.039	<0.039	<0.038	<0.051	<0.044	
Naphthalene	<0.033	<0.029	<0.037	<0.029	<0.029	<0.032	<0.028	<0.028	<0.027	<0.037	<0.032	
n-Butylbenzene	<0.0085	<0.0076	<0.0097	<0.0076	<0.0075	<0.0084	<0.0073	<0.0073	<0.0071	<0.0097	<0.0083	
N-Propylbenzene	<0.012	<0.01	<0.013	<0.01	<0.01	<0.011	<0.0099	<0.0099	<0.0097	<0.013	<0.011	
sec-Butylbenzene	<0.01	<0.0091	<0.012	<0.0091	<0.009	<0.01	<0.0087	<0.0087	<0.0085	<0.012	<0.0099	
Tetrachloroethene	<0.011	<0.0099	<0.013	0.065	<0.0098	<0.011	<0.0094	<0.0094	<0.0092	<0.013	<0.011	
Toluene	<0.0076	<0.0068	<0.0086	<0.0068	<0.0067	<0.0074	<0.0065	<0.0065	<0.0064	<0.0086	<0.0074	
Trichloroethene	<0.012	<0.011	<0.014	<0.011	<0.011	<0.012	<0.011	<0.011	<0.01	<0.014	<0.012	
Xylenes, Total	<0.0045	0.037	0.092	0.036	0.059	<0.0044	<0.0039	<0.0039	<0.0038	<0.0051	<0.0044	
PAH												
1-Methylnaphthalene	<0.018	<0.017	<0.019	<0.019	0.03 J	0.019 J	<0.018	<0.018	<0.017	<0.019	<0.019	
2-Methylnaphthalene	<0.048	<0.045	<0.049	<0.048	<0.05	<0.045	<0.048	<0.048	<0.045	<0.048	<0.049	
Acenaphthene	<0.011	0.021 J	<0.011	<0.011	0.1	0.048	<0.011	0.012 J	<0.01	0.022 J	<0.011	
Acenaphthylene	<0.0085	0.018 J	<0.0087	<0.0086	0.12	<0.0079	<0.0085	<0.0085	<0.008	<0.0086	<0.0087	
Anthracene	0.012 J	0.059	<0.0089	<0.0088	0.27	0.2	<0.0087	0.038	<0.0082	0.061	<0.0089	
Benzo(a)anthracene	0.043	0.26	<0.008	<0.0078	0.79	0.32	<0.0077	0.092	<0.0073	0.23	0.0096 J	
Benzo(a)pyrene	0.041	0.26	<0.0069	<0.0068	0.82	0.28	<0.0067	0.12	<0.0063	0.15	0.013 J	
Benzo(b)fluoranthene	0.056	0.34	<0.0074	0.008 J	1.1	0.31	<0.0072	0.13	<0.0068	0.17	<0.0074	
Benzo(g,h,i)perylene	0.034 J	0.19	<0.013	<0.013	0.58	0.13	<0.012	0.078	<0.012	0.11	<0.013	
Benzo(k)fluoranthene	0.023 J	0.19	<0.0091	<0.0089	0.48	0.15	<0.0088	0.086	<0.0083	0.14	<0.009	
Chrysene	0.052	0.29	<0.0086	<0.0084	0.96	0.37	<0.0083	0.16	<0.0079	0.23	<0.0086	
Dibenz(a,h)anthracene	0.01 J	0.053	<0.011	<0.01	0.17	0.073	<0.01	0.033 J	<0.0097	0.05	<0.011	

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Table 1. Summary of Off-Site Soil Analytical Results, Residential Properties, Madison-Kipp Corporation, Madison, Wisconsin.

Well/Boring	166-2		202-1		202-2		206-1		206-2		210-1	
	0-1'	0-1'	3-4'	0-1'	3-4'	0-1'	3-3.7	0-1'	3-4'	0-1'	3-4'	
Sample Depth												
Sample Date	6/26/12	6/26/12	6/26/12	6/26/12	6/26/12	8/22/2012	8/22/2012	8/22/2012	8/22/2012	8/17/2012	8/17/2012	
PAH (continued)												
Fluoranthene	0.087	0.61	<0.016	<0.015	2	0.69	<0.015	0.24	<0.014	0.46	0.017 J	
Fluorene	<0.0084	0.021 J	<0.0087	<0.0085	0.13	0.06	<0.0084	0.016 J	<0.0079	0.03 J	<0.0086	
Indeno(1,2,3-cd)pyrene	0.025 J	0.17	<0.013	<0.013	0.5	0.12	<0.012	0.056	<0.012	0.09	<0.013	
Naphthalene	<0.0071	0.0091 J	<0.0073	<0.0072	0.04	0.064	<0.0071	0.011 J	<0.0067	0.01 J	<0.0073	
Phenanthrene	0.068	0.3	<0.016	<0.016	1.3	0.61	<0.015	0.19	<0.015	0.37	<0.016	
Pyrene	0.079	0.47	<0.014	<0.013	1.5	0.6	<0.013	0.24	<0.013	0.42	0.014 J	
Metal												
Arsenic	8.9	8.9	10	7.3	9.4	4.6	7.9	9.9	5	8	8.6	
Barium	220	220	130	220	110	190	110	230	97	180	120	
Cadmium	0.36	1.5	0.24	1.1	0.21	0.77	0.071 J	0.83	0.061 J	0.7	0.20 J	
Chromium	18	17	20	14	20	17	21	17	16	15	19	
Cyanide, Total	<0.18	0.23 J	<0.16	0.20 J	<0.18	0.27 J B	0.21 J B	0.26 J B	0.24 J B	<0.18	<0.16	
Lead	58	250	34	390	35	91 B	15 B	140 B	11 B	100	18	
Mercury	0.068	0.23	0.079	0.089	0.054	0.099	0.035	0.13	0.023	0.069 B	0.038 B	
Selenium	0.84 J	0.91 J	0.51 J	0.64 J	0.49 J	0.56 J	0.89 J	0.66 J	0.72 J	0.98 J	1.0 J	
Silver	<0.064	0.37 J	<0.066	<0.063	<0.064	0.15 J	<0.062	0.37 J	<0.066	0.20 J	<0.065	
PCBs												
Aroclor-1242	<0.0061	<0.006	<0.0063	<0.0062	<0.0064	<0.0058	<0.0062	<0.006	<0.0058	<0.0062	<0.0062	
Aroclor-1254	<0.004	<0.0039	<0.0041	<0.0041	<0.0042	<0.0038	<0.0041	0.024	<0.0038	<0.004	<0.0041	
Aroclor-1260	<0.0092	<0.0089	<0.0094	<0.0093	<0.0095	<0.0087	<0.0092	<0.009	<0.0087	<0.0092	<0.0093	
Total Detected PCBs	ND	ND	ND	ND	ND	ND	ND	0.024	ND	ND	ND	

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Table 1. Summary of Off-Site Soil Analytical Results, Residential Properties, Madison-Kipp Corporation, Madison, Wisconsin.

Well/Boring	210-2		214-1		214-2		218-1		218-2		222-1	
	0-1'	1.5-2'	0-1'	3-4'	0-1'	3-4'	0-1'	3-4'	0-1'	3-4'	0-1'	3-4'
Sample Depth	8/17/2012	8/17/2012	8/17/2012	8/17/2012	8/17/2012	8/17/2012	8/17/2012	8/17/2012	8/17/2012	8/17/2012	8/17/2012	8/17/2012
VOC												
1,2,3-Trichlorobenzene	<0.019	<0.024	<0.025	<0.037	<0.025	<0.026	<0.02	<0.023	<0.021	<0.021	<0.02	<0.047
1,2,4-Trichlorobenzene	<0.021	<0.025	<0.028	<0.04	<0.027	<0.028	<0.022	<0.025	<0.023	<0.023	<0.021	<0.05
1,2,4-Trimethylbenzene	<0.012	<0.014	<0.015	<0.022	<0.015	<0.016	<0.012	<0.014	<0.013	<0.013	<0.012	<0.028
1,3,5-Trimethylbenzene	<0.011	<0.014	<0.015	<0.022	<0.014	<0.015	<0.012	<0.014	<0.013	<0.012	<0.012	<0.027
Bromomethane	<0.038	<0.046	<0.05	<0.073	<0.048	<0.051	<0.039	<0.045	<0.041	<0.041	<0.039	<0.091
Chloroform	<0.011	<0.014	<0.015	<0.022	<0.014	<0.015	<0.012	<0.014	<0.012	<0.012	<0.012	<0.027
cis-1,2-Dichloroethene	<0.0068	<0.0083	<0.009	<0.013	<0.0086	<0.0091	<0.007	<0.0082	<0.0075	<0.0073	<0.007	<0.016
Ethylbenzene	<0.007	<0.0085	<0.0092	<0.013	<0.0088	<0.0093	<0.0072	<0.0083	<0.0077	<0.0075	<0.0071	<0.017
Hexachlorobutadiene	<0.019	<0.023	<0.025	<0.037	<0.024	<0.026	<0.02	<0.023	<0.021	<0.021	<0.02	<0.046
Methylene Chloride	<0.038	<0.046	<0.05	<0.073	<0.048	<0.051	<0.039	<0.045	<0.042	<0.041	<0.039	<0.091
Naphthalene	<0.027	<0.033	<0.036	<0.053	<0.035	<0.037	<0.028	<0.033	<0.03	<0.03	<0.028	<0.066
n-Butylbenzene	<0.0072	<0.0087	<0.0094	<0.014	<0.0091	<0.0096	<0.0074	<0.0085	<0.0078	<0.0077	<0.0073	<0.017
N-Propylbenzene	<0.0097	<0.012	<0.013	<0.019	<0.012	<0.013	<0.01	<0.012	<0.011	<0.01	<0.0099	<0.023
sec-Butylbenzene	<0.0085	<0.01	<0.011	<0.016	<0.011	<0.011	<0.0088	<0.01	<0.0094	<0.0092	<0.0087	<0.021
Tetrachloroethene	0.038 J	<0.011	<0.012	<0.018	<0.012	<0.012	<0.0095	<0.011	<0.01	<0.01	<0.0095	<0.022
Toluene	<0.0064	<0.0077	<0.0084	0.017 J	<0.0081	0.012 J	<0.0066	<0.0076	<0.007	<0.0069	<0.0065	<0.015
Trichloroethene	<0.01	<0.013	<0.014	<0.02	<0.013	<0.014	<0.011	<0.012	<0.011	<0.011	<0.011	<0.025
Xylenes, Total	<0.0038	<0.0046	<0.005	<0.0073	<0.0048	<0.0051	<0.0039	<0.0045	<0.0042	<0.0041	<0.0039	<0.0091
PAH												
1-Methylnaphthalene	0.022 J	<0.018	0.02 J	<0.019	<0.019	<0.019	<0.019	<0.019	<0.018	<0.019	0.019 J	<0.019
2-Methylnaphthalene	<0.047	<0.048	<0.051	<0.051	<0.049	<0.05	<0.05	<0.049	<0.048	<0.051	<0.047	<0.05
Acenaphthene	0.028 J	<0.011	0.03 J	<0.012	<0.011	<0.012	<0.012	<0.011	0.012 J	<0.012	0.022 J	<0.012
Acenaphthylene	0.01 J	<0.0085	0.0091 J	<0.0089	<0.0087	<0.0089	<0.0089	<0.0086	<0.0085	<0.009	<0.0082	<0.0088
Anthracene	0.073	<0.0087	0.082	<0.0092	0.013 J	<0.0091	0.023 J	<0.0088	0.034 J	<0.0092	0.039 *	<0.0091 *
Benzo(a)anthracene	0.2	0.032 J	0.29	<0.0082	0.048	<0.0081	0.08	0.011 J	0.15	<0.0082	0.12 *	<0.0081 *
Benzo(a)pyrene	0.16	0.029 J	0.2	0.01 J	0.04	0.0081 J	0.061	0.015 J	0.11	<0.0071	0.1	<0.007
Benzo(b)fluoranthene	0.27	0.036 J	0.23	0.0096 J	0.039	<0.0075	0.066	0.015 J	0.14	<0.0076	0.11	<0.0075
Benzo(g,h,i)perylene	0.1	0.017 J	0.15	<0.013	0.022 J	<0.013	0.042	<0.013	0.086	<0.013	0.069	<0.013
Benzo(k)fluoranthene	0.26	0.015 J	0.15	<0.0093	0.034 J	<0.0093	0.054	<0.009	0.083	<0.0093	0.084	<0.0092
Chrysene	0.23	0.038	0.28	<0.0088	0.046	<0.0088	0.079	0.011 J	0.16	<0.0088	0.12	<0.0087
Dibenz(a,h)anthracene	0.04	0.01 J	0.067	<0.011	<0.011	<0.011	0.02 J	<0.01	0.035 J	<0.011	0.014 J	<0.011

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Table 1. Summary of Off-Site Soil Analytical Results, Residential Properties, Madison-Kipp Corporation, Madison, Wisconsin.

Well/Boring	210-2		214-1		214-2		218-1		218-2		222-1	
	0-1'	1.5-2	0-1'	3-4'	0-1'	3-4'	0-1'	3-4'	0-1'	3-4'	0-1'	3-4'
Sample Depth	8/17/2012	8/17/2012	8/17/2012	8/17/2012	8/17/2012	8/17/2012	8/17/2012	8/17/2012	8/17/2012	8/17/2012	8/17/2012	8/17/2012
PAH (continued)												
Fluoranthene	0.49	0.063	0.58	<0.016	0.084	<0.016	0.16	0.018 J	0.28	<0.016	0.25	<0.016
Fluorene	0.045	<0.0084	0.044	0.0089 J	<0.0086	0.012 J	0.012 J	<0.0085	0.017 J	<0.0089	0.027 J	<0.0087
Indeno(1,2,3-cd)pyrene	0.079	0.015 J	0.11	<0.013	0.016 J	<0.013	0.033 J	<0.013	0.068	<0.013	0.056	<0.013
Naphthalene	0.027 J	<0.0071	0.016 J	<0.0075	<0.0073	<0.0075	<0.0074	<0.0072	0.0093 J	<0.0075	0.026 J	<0.0074
Phenanthrene	0.52	0.046	0.45	<0.016	0.093	<0.016	0.13	<0.016	0.23	<0.016	0.22	<0.016
Pyrene	0.46	0.06	0.5	<0.014	0.094	<0.014	0.15	0.017 J	0.3	<0.014	0.19	<0.014
Metal												
Arsenic	13	7.5	6.3	9.3	5.7	8.9	6.4	8.3	8.6	8.8	4.9	9.3
Barium	180	180	180	120	140	100	170	130	230	120	110	110
Cadmium	0.55	0.44	0.91	0.17 J	0.3	0.12 J	0.35	0.24	1.4	0.22	0.28	0.16 J
Chromium	17	14	17	22	15	20	15	19	27	20	13	21
Cyanide, Total	<0.18	<0.18	<0.17	<0.17	<0.18	<0.17	<0.17	<0.17	<0.15	<0.17	<0.18	<0.17
Lead	110	63	170	44	40	16	66	15	290	30	23	15
Mercury	0.079 B	0.065 B	0.19 B	0.063 B	0.039 B	0.034 B	0.2 B	0.047 B	0.17 B	0.074 B	0.031	0.058
Selenium	0.83 J	0.99 J	1.5	0.48 J	0.50 J	0.55 J	0.84 J	0.77 J	0.82 J	0.84 J	0.80 J	0.78 J
Silver	0.082 J	0.073 J	0.19 J	<0.07	<0.064	<0.065	0.092 J	<0.068	0.31 J	<0.062	<0.06	<0.067
PCBs												
Aroclor-1242	<0.0061	<0.0063	<0.0067	<0.0062	<0.0061	<0.0064	<0.0064	<0.0065	<0.0062	<0.0063	<0.0059	<0.0064
Aroclor-1254	<0.004	<0.0042	<0.0044	<0.0041	<0.004	<0.0042	<0.0042	<0.0043	<0.004	<0.0042	<0.0039	<0.0042
Aroclor-1260	<0.0091	<0.0095	<0.01	<0.0093	<0.0091	<0.0095	<0.0095	<0.0097	<0.0092	<0.0094	<0.0088	<0.0095
Total Detected PCBs	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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Table 1. Summary of Off-Site Soil Analytical Results, Residential Properties, Madison-Kipp Corporation, Madison, Wisconsin.

Well/Boring	222-2		226-1		226-2		230-1		230-2		233-1	
	0-1'	3-4'	0-1'	3-4'	0-1'	3-4'	0-2'	3-4'	0-1'	3-4'	0-1'	3-4'
Sample Depth	8/17/2012	8/17/2012	8/22/2012	8/22/2012	8/22/2012	8/22/2012	8/17/2012	8/17/2012	8/17/2012	8/17/2012	6/26/12	6/26/12
VOC												
1,2,3-Trichlorobenzene	<0.051	<0.021	<0.019	<0.02	<0.019	<0.02	<0.046	<0.047	<0.046	<0.042	<0.023	<0.021
1,2,4-Trichlorobenzene	<0.055	<0.022	<0.021	<0.022	<0.021	<0.022	<0.05	<0.05	<0.05	<0.046	<0.025	<0.023
1,2,4-Trimethylbenzene	<0.03	<0.013	<0.012	<0.012	<0.012	<0.012	<0.028	<0.028	<0.028	<0.025	<0.014	<0.013
1,3,5-Trimethylbenzene	<0.03	<0.012	<0.011	<0.012	<0.011	<0.012	<0.027	<0.027	<0.027	<0.025	<0.014	<0.012
Bromomethane	<0.098	<0.04	<0.037	<0.04	<0.038	<0.039	<0.09	<0.091	<0.09	<0.082	<0.046	<0.041
Chloroform	<0.03	<0.012	<0.011	<0.012	<0.011	<0.012	<0.027	<0.027	<0.027	<0.025	<0.014	<0.012
cis-1,2-Dichloroethene	<0.018	<0.0073	<0.0067	<0.0071	<0.0068	<0.0071	<0.016	<0.016	<0.016	<0.015	<0.0082	<0.0074
Ethylbenzene	<0.018	<0.0075	<0.0069	<0.0073	<0.007	<0.0073	<0.017	<0.017	<0.017	<0.015	<0.0084	0.013 J
Hexachlorobutadiene	<0.05	<0.021	<0.019	<0.02	<0.019	<0.02	<0.046	<0.046	<0.046	<0.042	<0.023	<0.021
Methylene Chloride	<0.099	<0.04	<0.037	<0.04	<0.038	<0.04	<0.09	<0.091	<0.09	<0.082	<0.046	<0.041
Naphthalene	<0.071	<0.029	<0.027	<0.029	<0.027	<0.029	<0.065	<0.066	<0.065	<0.059	<0.033	0.083 J
n-Butylbenzene	<0.019	<0.0076	<0.007	<0.0075	<0.0072	<0.0075	<0.017	<0.017	<0.017	<0.016	<0.0086	<0.0078
N-Propylbenzene	<0.025	<0.01	<0.0095	<0.01	<0.0097	<0.01	<0.023	<0.023	<0.023	<0.021	<0.012	<0.011
sec-Butylbenzene	<0.022	<0.0091	<0.0084	<0.0089	<0.0085	<0.0089	<0.02	<0.021	<0.02	<0.019	<0.01	<0.0093
Tetrachloroethene	<0.024	<0.0099	<0.0091	<0.0097	<0.0093	<0.0097	<0.022	<0.022	0.095 J	<0.02	0.14	<0.01
Toluene	<0.017	<0.0068	<0.0063	<0.0067	<0.0064	<0.0067	<0.015	<0.015	<0.015	<0.014	<0.0077	<0.0069
Trichloroethene	<0.027	<0.011	<0.01	<0.011	<0.01	<0.011	<0.024	<0.025	<0.025	<0.022	<0.012	<0.011
Xylenes, Total	<0.0099	<0.0041	<0.0037	<0.004	<0.0038	<0.004	<0.009	<0.0091	<0.009	<0.0082	<0.0046	0.041 B
PAH												
1-Methylnaphthalene	<0.018	<0.019	<0.018	<0.019	0.018 J	<0.019	<0.019	<0.019	<0.018	<0.019	<0.02	<0.019
2-Methylnaphthalene	<0.047	<0.049	<0.047	<0.049	<0.046	<0.049	<0.049	<0.049	<0.048	<0.049	<0.051	<0.05
Acenaphthene	0.012 J	<0.011	0.012 J	<0.011	<0.011	<0.011	0.057	<0.011	0.031 J	<0.011	0.021 J	<0.011
Acenaphthylene	<0.0084	<0.0087	<0.0084	<0.0086	0.018 J	<0.0087	0.033 J	<0.0086	<0.0084	<0.0086	0.046	<0.0088
Anthracene	0.026 J *	<0.0089 *	0.028 J	<0.0088	0.024 J	<0.0089	0.2 *	<0.0088 *	0.061 *	<0.0088 *	0.12	<0.009
Benzo(a)anthracene	0.13 *	0.0082 J *	0.13	<0.0079	0.13	<0.0079	0.59 *	0.019 J *	0.16 *	<0.0078 *	0.5	<0.008
Benzo(a)pyrene	0.13	0.0076 J	0.16	<0.0069	0.19	<0.0069	0.53	0.021 J	0.15	<0.0068	0.46	<0.007
Benzo(b)fluoranthene	0.16	0.0096 J	0.15	<0.0073	0.18	<0.0073	0.56	0.017 J	0.18	<0.0073	0.58	<0.0074
Benzo(g,h,i)perylene	0.1	<0.013	0.081	<0.013	0.11	<0.013	0.33	0.017 J	0.1	<0.013	0.32	<0.013
Benzo(k)fluoranthene	0.081	<0.009	0.11	<0.009	0.14	<0.009	0.33	0.014 J	0.099	<0.0089	0.29	<0.0091
Chrysene	0.15	<0.0085	0.17	<0.0085	0.2	<0.0085	0.57	0.019 J	0.17	<0.0084	0.52	<0.0087
Dibenz(a,h)anthracene	0.032 J	<0.011	0.02 J	<0.011	0.044	<0.011	0.12	<0.01	0.031 J	<0.01	0.099	<0.011

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Table 1. Summary of Off-Site Soil Analytical Results, Residential Properties, Madison-Kipp Corporation, Madison, Wisconsin.

Well/Boring	222-2		226-1		226-2		230-1		230-2		233-1	
	0-1'	3-4'	0-1'	3-4'	0-1'	3-4'	0-2'	3-4'	0-1'	3-4'	0-1'	3-4'
Sample Depth	0-1'	3-4'	0-1'	3-4'	0-1'	3-4'	0-2'	3-4'	0-1'	3-4'	0-1'	3-4'
Sample Date	8/17/2012	8/17/2012	8/22/2012	8/22/2012	8/22/2012	8/22/2012	8/17/2012	8/17/2012	8/17/2012	8/17/2012	6/26/12	6/26/12
PAH (continued)												
Fluoranthene	0.27	0.018 J	0.29	<0.015	0.24	<0.015	1.3	0.029 J	0.33	<0.015	1.3	<0.016
Fluorene	0.016 J	<0.0086	0.014 J	<0.0085	0.012 J	<0.0086	0.11	<0.0085	0.027 J	<0.0085	0.027 J	<0.0087
Indeno(1,2,3-cd)pyrene	0.078	<0.013	0.066	<0.013	0.087	<0.013	0.29	0.013 J	0.091	<0.013	0.27	<0.013
Naphthalene	0.0076 J	<0.0073	0.009 J	<0.0072	0.012 J	<0.0073	0.014 J	<0.0072	0.0096 J	<0.0072	0.01 J	<0.0074
Phenanthrene	0.17	<0.016	0.17	<0.016	0.13	<0.016	0.76	<0.016	0.23	<0.016	0.53	<0.016
Pyrene	0.21	<0.014	0.23	<0.014	0.25	<0.014	0.92	0.026 J	0.28	<0.014	0.87	<0.014
Metal												
Arsenic	5.7	9.1	7.3	8.4	8.6	8.6	5.8	8.6	6.8	9	12	9
Barium	180	110	250	130	190	130	200	120	190	130	200	110
Cadmium	0.49	0.17 J	0.72	0.058 J	0.55	<0.055	0.39	0.15 J	0.43	0.57	0.95	0.16 J
Chromium	13	20	17	21	18	23	14	20	20	21	17	21
Cyanide, Total	<0.16	<0.16	0.24 J B	0.23 J B	0.20 J B	0.21 J B	<0.16	<0.15	<0.16	<0.17	0.23 J	<0.14
Lead	44	17	170 B	16 B	180 B	18 B	78	17	96	45	140	20
Mercury	0.076	0.054	0.33	0.033	0.091	0.02	0.14	0.058	0.13	0.071	0.2	0.024
Selenium	1.1	0.98 J	0.69 J	0.76 J	1.2	0.89 J	0.86 J	0.55 J	0.90 J	1.1	0.97 J	0.44 J
Silver	0.090 J	<0.066	0.56	<0.062	0.12 J	<0.067	0.099 J	<0.063	0.097 J	<0.069	0.32 J	<0.07
PCBs												
Aroclor-1242	<0.0057	<0.0061	<0.006	<0.0062	<0.006	<0.0063	<0.0062	<0.006	<0.0062	<0.0061	<0.0065	<0.0063
Aroclor-1254	<0.0038	<0.004	<0.0039	<0.0041	<0.0039	<0.0041	<0.0041	<0.004	<0.0041	<0.004	0.047	<0.0042
Aroclor-1260	<0.0086	<0.0091	<0.0089	<0.0093	0.021	<0.0094	<0.0093	<0.009	<0.0093	<0.0091	<0.0097	<0.0095
Total Detected PCBs	ND	ND	ND	ND	0.021	ND	ND	ND	ND	ND	0.047	ND

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Table 1. Summary of Off-Site Soil Analytical Results, Residential Properties, Madison-Kipp Corporation, Madison, Wisconsin.

Well/Boring	233-2		241-1		241-2		245-1		245-2		249-1	
	0-1'	3-4'	0-1'	3-4'	0-1'	3-4'	0-1'	3-4'	0-1'	3-4'	0-1'	3-4'
Sample Depth	6/25/12	6/25/12	6/26/12	6/26/12	6/26/12	6/26/12	7/20/12	7/20/12	7/20/12	7/20/12	6/26/12	6/26/12
Sample Date												
VOC												
1,2,3-Trichlorobenzene	<0.028	<0.023	<0.021	<0.021	<0.023	<0.021	<0.02	<0.02	<0.021	<0.02	<0.022	<0.019
1,2,4-Trichlorobenzene	<0.03	<0.025	<0.022	<0.022	<0.025	<0.022	<0.022	<0.022	<0.023	<0.022	<0.023	<0.02
1,2,4-Trimethylbenzene	<0.017	<0.014	<0.012	<0.012	<0.014	<0.012	<0.012	<0.012	<0.013	<0.012	<0.013	<0.011
1,3,5-Trimethylbenzene	<0.017	<0.014	<0.012	<0.012	<0.014	<0.012	<0.012	<0.012	<0.012	<0.012	<0.013	<0.011
Bromomethane	<0.055	<0.046	<0.04	<0.04	<0.045	<0.04	<0.04	<0.04	<0.041	<0.04	<0.042	<0.037
Chloroform	<0.016	<0.014	<0.012	<0.012	<0.014	<0.012	<0.012	<0.012	<0.012	<0.012	<0.013	<0.011
cis-1,2-Dichloroethene	<0.0099	<0.0082	<0.0073	<0.0072	<0.0081	<0.0073	<0.0072	<0.0072	<0.0074	<0.0071	<0.0076	<0.0066
Ethylbenzene	<0.01	<0.0084	<0.0075	<0.0074	<0.0083	<0.0074	<0.0073	<0.0074	<0.0076	<0.0073	<0.0078	<0.0068
Hexachlorobutadiene	<0.028	<0.023	<0.02	<0.02	<0.023	<0.02	<0.02	<0.02	<0.021	<0.02	<0.021	<0.019
Methylene Chloride	<0.055	<0.046	<0.04	<0.04	<0.045	<0.04	<0.04	<0.04	<0.041	<0.04	<0.042	<0.037
Naphthalene	<0.04	<0.033	0.065 J	<0.029	<0.033	<0.029	<0.029	<0.029	<0.03	<0.029	<0.031	<0.027
n-Butylbenzene	<0.01	<0.0086	<0.0076	<0.0076	<0.0085	<0.0076	<0.0075	<0.0075	<0.0078	<0.0075	<0.008	<0.007
N-Propylbenzene	<0.014	<0.012	<0.01	<0.01	<0.012	<0.01	<0.01	<0.01	<0.011	<0.01	<0.011	<0.0094
sec-Butylbenzene	<0.012	<0.01	<0.0091	<0.009	<0.01	<0.0091	<0.009	<0.009	<0.0093	<0.0089	<0.0095	<0.0083
Tetrachloroethene	0.14	<0.011	0.067	<0.0098	<0.011	<0.0099	<0.0097	<0.0098	<0.01	<0.0097	<0.01	<0.009
Toluene	<0.0092	<0.0077	<0.0068	<0.0067	<0.0076	<0.0068	<0.0067	<0.0067	<0.0069	<0.0067	<0.0071	<0.0062
Trichloroethene	<0.015	<0.012	<0.011	<0.011	<0.012	<0.011	<0.011	<0.011	0.022 J	<0.011	<0.012	<0.01
Xylenes, Total	<0.0055	<0.0046	<0.004	<0.004	<0.0045	<0.004	<0.004	<0.004	<0.0041	<0.004	<0.0042	<0.0037
PAH												
1-Methylnaphthalene	<0.02	<0.019	0.063	<0.019	<0.017	<0.018	<0.019	<0.018	<0.019	<0.019	<0.017	<0.017
2-Methylnaphthalene	<0.052	<0.05	0.054 J	<0.051	<0.045	<0.047	<0.049	<0.048	<0.049	<0.049	<0.044	<0.046
Acenaphthene	<0.012	<0.011	0.11	<0.012	0.014 J	<0.011	<0.011	<0.011	<0.011	<0.011	0.018 J	<0.011
Acenaphthylene	0.012 J	<0.0088	0.012 J	<0.009	0.017 J	<0.0083	<0.0087	<0.0085	<0.0087	<0.0088	<0.0078	<0.0081
Anthracene	0.03 J	<0.009	0.25	<0.0092	0.045	<0.0085	0.023 J	<0.0087	0.036 J	<0.009	0.037	<0.0083
Benzo(a)anthracene	0.11	0.0087 J	0.63	<0.0082	0.22	<0.0076	0.096	<0.0077	0.14	<0.008	0.14	<0.0074
Benzo(a)pyrene	0.11	0.0082 J	0.59	<0.0071	0.22	<0.0066	0.094	<0.0067	0.14	<0.0069	0.13	<0.0064
Benzo(b)fluoranthene	0.12	0.011 J	0.71	<0.0076	0.3	<0.007	0.12	<0.0072	0.19	<0.0074	0.16	<0.0068
Benzo(g,h,i)perylene	0.093	<0.013	0.41	<0.013	0.18	<0.012	0.096	<0.012	0.12	<0.013	0.096	<0.012
Benzo(k)fluoranthene	0.092	<0.0091	0.38	<0.0093	0.14	<0.0086	0.05	<0.0088	0.072	<0.0091	0.082	<0.0084
Chrysene	0.12	0.011 J	0.62	<0.0088	0.24	<0.0082	0.1	<0.0083	0.16	<0.0086	0.15	<0.008
Dibenz(a,h)anthracene	0.025 J	<0.011	0.13	<0.011	0.061	<0.01	0.029 J	<0.01	0.046	<0.011	0.026 J	<0.0098

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Table 1. Summary of Off-Site Soil Analytical Results, Residential Properties, Madison-Kipp Corporation, Madison, Wisconsin.

Well/Boring	233-2		241-1		241-2		245-1		245-2		249-1	
	0-1'	3-4'	0-1'	3-4'	0-1'	3-4'	0-1'	3-4'	0-1'	3-4'	0-1'	3-4'
Sample Depth	6/25/12	6/25/12	6/26/12	6/26/12	6/26/12	6/26/12	7/20/12	7/20/12	7/20/12	7/20/12	6/26/12	6/26/12
Sample Date												
PAH (continued)												
Fluoranthene	0.26	0.023 J	1.4	<0.016	0.44	<0.015	0.19	<0.015	0.29	<0.016	0.26	<0.014
Fluorene	0.012 J	<0.0087	0.13	<0.0089	0.017 J	<0.0082	0.01 J	<0.0084	0.013 J	<0.0087	0.015 J	<0.008
Indeno(1,2,3-cd)pyrene	0.074	<0.013	0.36	<0.013	0.14	<0.012	0.073	<0.012	0.1	<0.013	0.086	<0.012
Naphthalene	<0.0077	<0.0074	0.078	<0.0075	0.01 J	<0.007	<0.0073	<0.0071	<0.0073	<0.0073	<0.0066	<0.0068
Phenanthrene	0.12	<0.016	1	<0.016	0.25	<0.015	0.092	<0.015	0.18	<0.016	0.24	<0.015
Pyrene	0.19	0.018 J	1.1	<0.014	0.38	<0.013	0.15	<0.013	0.23	<0.014	0.28	<0.013
Metal												
Arsenic	8.3	8.2	6.8	9.5	7.8	8.2	7.2	4.4	8	7.3	12	5.6
Barium	280	110	160	130	160	97	150	54	160	110	150	54
Cadmium	0.43	0.17 J	0.44	0.24	0.89	0.16 J	0.5	0.19 J	0.53	0.14 J	0.53	0.13 J
Chromium	15	18	19	21	19	17	16	12	15	20	13	12
Cyanide, Total	0.26 J	<0.18	<0.14	0.32 J	0.21 J	<0.15	0.33 J	0.24 J	0.44 J	0.18 J	0.21 J	<0.17
Lead	92	13	73	15	83	13	56	7.8	88	12	59	10
Mercury	0.077	0.037	0.031	0.13	0.066	0.032	0.04	0.019	0.072	0.038	0.11	0.018
Selenium	0.72 J	0.30 J	0.49 J	0.78 J	0.60 J	0.60 J	0.70 J	<0.32	0.81 J	<0.32	0.85 J	0.44 J
Silver	0.078 J	<0.061	<0.062	<0.065	0.12 J	<0.061	<0.064	<0.067	<0.065	<0.068	0.068 J	<0.063
PCBs												
Aroclor-1242	<0.0068	<0.0063	<0.0058	<0.0064	<0.0058	<0.006	<0.0063	<0.0062	<0.0063	<0.0062	<0.0058	<0.0057
Aroclor-1254	0.022	<0.0042	0.063	<0.0042	0.094	<0.0039	0.054	<0.0041	0.14	0.014 J	0.036	<0.0037
Aroclor-1260	<0.01	<0.0095	<0.0087	<0.0096	<0.0086	<0.0089	<0.0095	<0.0093	<0.0094	<0.0093	<0.0086	<0.0085
Total Detected PCBs	0.022	ND	0.063	ND	0.094	ND	0.054	ND	0.14	0.014	0.036	ND

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Table 1. Summary of Off-Site Soil Analytical Results, Residential Properties, Madison-Kipp Corporation, Madison, Wisconsin.

Well/Boring	249-2		253-1		253-2		257-1		257-2		261-1	
	0-1'	3-4'	0-1'	3-4'	0-1'	3-4'	0-1'	3-4'	0-1'	3-4'	0-1'	3-4'
Sample Depth	6/26/12	6/26/12	6/26/12	6/26/12	6/26/12	6/26/12	6/26/12	6/26/12	6/26/12	6/26/12	8/22/2012	8/22/2012
VOC												
1,2,3-Trichlorobenzene	<0.025	<0.019	<0.024	<0.019	<0.021	<0.023	<0.02	<0.019	<0.026	<0.026	<0.019	<0.021
1,2,4-Trichlorobenzene	<0.027	<0.021	<0.026	<0.021	<0.022	<0.025	<0.022	<0.021	<0.028	<0.029	<0.02	<0.022
1,2,4-Trimethylbenzene	<0.015	<0.012	<0.015	<0.012	<0.012	<0.014	<0.012	<0.011	<0.015	<0.016	<0.011	<0.012
1,3,5-Trimethylbenzene	<0.015	<0.011	<0.014	<0.011	<0.012	<0.014	<0.012	<0.011	<0.015	<0.016	<0.011	<0.012
Bromomethane	<0.048	<0.038	<0.047	<0.038	<0.04	<0.045	<0.039	<0.037	<0.05	<0.052	<0.036	<0.04
Chloroform	<0.014	<0.011	<0.014	<0.011	<0.012	<0.014	<0.012	<0.011	<0.015	<0.015	<0.011	<0.012
cis-1,2-Dichloroethene	<0.0087	<0.0068	<0.0085	<0.0068	<0.0073	<0.0082	<0.0071	<0.0067	<0.009	<0.0093	<0.0066	<0.0072
Ethylbenzene	<0.0089	<0.0069	<0.0087	<0.0069	<0.0074	<0.0084	<0.0073	<0.0068	<0.0092	0.015 J	0.012 J	<0.0074
Hexachlorobutadiene	<0.024	<0.019	<0.024	<0.019	<0.02	<0.023	<0.02	<0.019	<0.025	<0.026	<0.018	<0.02
Methylene Chloride	<0.048	<0.038	<0.047	<0.038	<0.04	<0.045	<0.039	<0.037	<0.05	<0.052	<0.036	<0.04
Naphthalene	<0.035	<0.027	<0.034	<0.027	<0.029	<0.033	<0.029 *	<0.027 *	<0.036 *	<0.037 *	<0.026	<0.029
n-Butylbenzene	<0.0091	<0.0071	<0.009	<0.0071	<0.0076	<0.0086	<0.0075	<0.007	<0.0095	<0.0098	<0.0069	<0.0076
N-Propylbenzene	<0.012	<0.0096	<0.012	<0.0096	<0.01	<0.012	<0.01	<0.0095	<0.013	<0.013	<0.0093	<0.01
sec-Butylbenzene	<0.011	<0.0085	<0.011	<0.0085	<0.0091	<0.01	<0.0089	<0.0084	<0.011	<0.012	<0.0082	<0.0091
Tetrachloroethene	<0.012	<0.0092	0.17	<0.0092	0.1	<0.011	0.052 J	<0.0091	0.051 J	<0.013	<0.0089	<0.0098
Toluene	<0.0081	<0.0063	<0.008	<0.0063	<0.0068	<0.0076	<0.0067	<0.0062	<0.0084	<0.0087	0.014	<0.0068
Trichloroethene	<0.013	<0.01	<0.013	<0.01	<0.011	<0.012	<0.011	<0.01	<0.014	<0.014	<0.0099	<0.011
Xylenes, Total	<0.0048	<0.0038	<0.0047	<0.0038	<0.004	<0.0045	0.024 J	<0.0037	<0.005	0.045	0.026 J	<0.004
PAH												
1-Methylnaphthalene	<0.018	<0.018	<0.019	<0.019	<0.018	<0.019	<0.017	<0.02	<0.017	<0.018	<0.018	<0.019
2-Methylnaphthalene	<0.046	<0.047	<0.048	<0.05	<0.046	<0.05	<0.044	<0.051	<0.044	<0.047	<0.046	<0.05
Acenaphthene	0.063	<0.011	<0.011	<0.012	<0.011	<0.012	0.011 J	<0.012	<0.01	<0.011	<0.011	<0.011
Acenaphthylene	0.014 J	<0.0083	<0.0086	<0.0089	<0.0081	<0.0088	0.028 J	<0.009	0.011 J	<0.0082	<0.0082	<0.0088
Anthracene	0.16	<0.0085	0.023 J	<0.0091	0.019 J	<0.0091	0.047	<0.0092	0.027 J	<0.0084	0.016 J	<0.009
Benzo(a)anthracene	0.55	<0.0076	0.12	<0.0081	0.089	<0.0081	0.29	<0.0082	0.16	0.009 J	0.054	<0.008
Benzo(a)pyrene	0.5	<0.0066	0.12	<0.007	0.11	<0.007	0.31	0.0081 J	0.16	0.0082 J	0.076	<0.007
Benzo(b)fluoranthene	0.6	<0.0071	0.15	0.017 J	0.12	<0.0075	0.41	<0.0076	0.21	0.011 J	0.081	<0.0075
Benzo(g,h,i)perylene	0.34	<0.012	0.089	<0.013	0.08	<0.013	0.26	<0.013	0.12	<0.012	0.042	<0.013
Benzo(k)fluoranthene	0.33	<0.0087	0.082	<0.0092	0.08	<0.0092	0.17	<0.0094	0.097	<0.0085	0.06	<0.0092
Chrysene	0.58	<0.0082	0.14	0.012 J	0.12	<0.0087	0.34	<0.0089	0.19	<0.0081	0.09	<0.0087
Dibenz(a,h)anthracene	0.11	<0.01	0.025 J	<0.011	0.035	<0.011	0.078	<0.011	0.033 J	<0.01	0.014 J	<0.011

Footnotes on Page 27.

Table 1. Summary of Off-Site Soil Analytical Results, Residential Properties, Madison-Kipp Corporation, Madison, Wisconsin.

Well/Boring	249-2		253-1		253-2		257-1		257-2		261-1	
	0-1'	3-4'	0-1'	3-4'	0-1'	3-4'	0-1'	3-4'	0-1'	3-4'	0-1'	3-4'
Sample Depth	0-1'	3-4'	0-1'	3-4'	0-1'	3-4'	0-1'	3-4'	0-1'	3-4'	0-1'	3-4'
Sample Date	6/26/12	6/26/12	6/26/12	6/26/12	6/26/12	6/26/12	6/26/12	6/26/12	6/26/12	6/26/12	8/22/2012	8/22/2012
PAH (continued)												
Fluoranthene	1.3	<0.015	0.21	0.022 J	0.17	<0.016	0.57	<0.016	0.3	<0.015	0.13	<0.016
Fluorene	0.051	<0.0083	0.011 J	<0.0088	<0.0081	<0.0088	0.013 J	<0.0089	0.01 J	<0.0081	<0.0081	<0.0087
Indeno(1,2,3-cd)pyrene	0.31	<0.012	0.08	<0.013	0.069	<0.013	0.19	<0.013	0.1	<0.012	0.024 J	<0.013
Naphthalene	0.01 J	<0.007	<0.0072	<0.0074	<0.0068	<0.0074	0.019 J	<0.0076	<0.0066	<0.0069	<0.0069	<0.0074
Phenanthrene	0.85	<0.015	0.16	<0.016	0.098	<0.016	0.28	<0.016	0.17	<0.015	0.07	<0.016
Pyrene	1.1	<0.013	0.22	0.027 J	0.18	<0.014	0.55	<0.014	0.28	<0.013	0.13	<0.014
Metal												
Arsenic	10	6.1	6.7	7.1	6	9.1	6.8	8.3	9.5	8.3	5.6	8.6
Barium	150	76	170	150	200	110	160 V	130	210	130	120	120
Cadmium	0.42	0.14 J	0.57	0.22	0.52	0.17 J	0.79	0.16 J	0.8	0.18 J	0.81	0.064 J
Chromium	14	16	14	18	15	21	14 V	20	18	19	51	22
Cyanide, Total	0.16 J	<0.15	0.23 J	<0.16	0.20 J	<0.14	<0.15	<0.14	0.30 J	0.12 J	0.27 J B	0.22 J B
Lead	69	7.5	67	18	170	15	220	19	160	18	260 B	32 B
Mercury	0.074	0.019	0.056	0.031	0.058	0.019	0.48	0.025	0.12	0.033	0.19	0.064
Selenium	0.56 J	<0.32	0.60 J	0.69 J	0.56 J	0.77 J	<0.27	<0.31	<0.27	<0.31	0.59 J	1.0 J
Silver	<0.063	<0.067	0.093 J	<0.061	<0.061	<0.069	0.092 J	<0.065	0.15 J	<0.065	0.36 J	<0.065
PCBs												
Aroclor-1242	<0.0056	<0.006	<0.006	<0.0065	<0.0058	<0.0063	<0.0057	<0.0064	<0.0056	<0.0063	<0.0057	<0.0063
Aroclor-1254	<0.0037	<0.0039	0.046	<0.0042	<0.0038	<0.0041	<0.0038	<0.0042	<0.0037	<0.0041	<0.0038	<0.0041
Aroclor-1260	<0.0083	<0.009	<0.009	<0.0096	<0.0087	<0.0094	<0.0085	<0.0096	<0.0084	<0.0094	<0.0086	<0.0093
Total Detected PCBs	ND	ND	0.046	ND	ND	ND	ND	ND	ND	ND	ND	ND

Footnotes on Page 27.

Table 1. Summary of Off-Site Soil Analytical Results, Residential Properties, Madison-Kipp Corporation, Madison, Wisconsin.

Well/Boring	261-2		265-1		265-2	
	0-1'	3-3.8'	0-1'	3-4'	0-1'	3-4'
Sample Depth	8/22/2012	8/22/2012	6/26/12	6/26/12	6/26/12	6/26/12
Sample Date						
VOC						
1,2,3-Trichlorobenzene	<0.02	<0.021	<0.026	0.048 J	<0.023	<0.019
1,2,4-Trichlorobenzene	<0.021	<0.022	<0.028	<0.025	<0.024	<0.02
1,2,4-Trimethylbenzene	<0.012	<0.012	<0.016	<0.014	<0.014	<0.011
1,3,5-Trimethylbenzene	<0.012	<0.012	<0.015	<0.014	<0.013	<0.011
Bromomethane	<0.038	<0.04	<0.051	<0.045	<0.044	<0.037
Chloroform	<0.012	<0.012	<0.015	<0.013	<0.013	<0.011
cis-1,2-Dichloroethene	<0.0069	<0.0073	<0.0091	<0.0081	<0.0079	<0.0066
Ethylbenzene	<0.0071	<0.0074	<0.0094	<0.0083	<0.0081	<0.0068
Hexachlorobutadiene	<0.019	<0.02	<0.026	<0.023	<0.022	<0.019
Methylene Chloride	<0.038	<0.04	<0.051	<0.045	<0.044	<0.037
Naphthalene	<0.028	<0.029	0.86	<0.033 *	<0.032 *	<0.027 *
n-Butylbenzene	<0.0072	<0.0076	<0.0096	<0.0085	<0.0083	<0.007
N-Propylbenzene	<0.0098	<0.01	<0.013	<0.012	<0.011	<0.0095
sec-Butylbenzene	<0.0086	<0.0091	<0.011	<0.01	<0.0099	<0.0083
Tetrachloroethene	<0.0094	<0.0099	0.086	<0.011	0.065	<0.009
Toluene	<0.0065	<0.0068	<0.0085	<0.0076	<0.0074	<0.0062
Trichloroethene	<0.01	<0.011	<0.014	<0.012	<0.012	<0.01
Xylenes, Total	<0.0038	<0.004	<0.0051	0.038	<0.0044	<0.0037
PAH						
1-Methylnaphthalene	<0.018	<0.019	<0.018	<0.018	<0.017	<0.018
2-Methylnaphthalene	<0.048	<0.049	<0.046	<0.048	<0.044	<0.047
Acenaphthene	<0.011	<0.011	0.016 J	<0.011	<0.01	<0.011
Acenaphthylene	<0.0085	<0.0087	0.013 J	<0.0085	<0.0078	<0.0084
Anthracene	0.012 J	<0.0089	0.039	<0.0087	0.009 J	<0.0086
Benzo(a)anthracene	0.042	<0.0079	0.21	<0.0077	0.05	<0.0076
Benzo(a)pyrene	0.054	<0.0069	0.23	<0.0067	0.058	<0.0066
Benzo(b)fluoranthene	0.056	<0.0073	0.32	<0.0071	0.07	<0.0071
Benzo(g,h,i)perylene	0.036 J	<0.013	0.15	<0.012	0.04	<0.012
Benzo(k)fluoranthene	0.038	<0.009	0.13	<0.0088	0.037	<0.0087
Chrysene	0.066	<0.0085	0.27	<0.0083	0.059	<0.0082
Dibenz(a,h)anthracene	<0.01	<0.011	0.068	<0.01	0.016 J	<0.01

Footnotes on Page 27.

Table 1. Summary of Off-Site Soil Analytical Results, Residential Properties, Madison-Kipp Corporation, Madison, Wisconsin.

Well/Boring	261-2		265-1		265-2	
	0-1'	3-3.8'	0-1'	3-4'	0-1'	3-4'
Sample Depth	8/22/2012	8/22/2012	6/26/12	6/26/12	6/26/12	6/26/12
PAH (continued)						
Fluoranthene	0.097	<0.015	0.41	<0.015	0.083	<0.015
Fluorene	<0.0084	<0.0086	0.017 J	<0.0084	<0.0077	<0.0083
Indeno(1,2,3-cd)pyrene	0.03 J	<0.013	0.14	<0.012	0.039	<0.012
Naphthalene	0.015 J	<0.0073	0.0097 J	<0.0071	<0.0065	<0.007
Phenanthrene	0.068	<0.016	0.2	<0.015	0.037	<0.015
Pyrene	0.093	<0.014	0.4	<0.013	0.098	<0.013
Metal						
Arsenic	6.6	9	5.8	8.2	4.6	9
Barium	180	130	200	110	200	120
Cadmium	1.4	0.19 J	0.73	0.15 J	0.59	0.17 J
Chromium	15	22	15	19	13	20
Cyanide, Total	0.23 J B	0.26 J B	0.26 J	<0.16	0.29 J	<0.15
Lead	660 B	90 B	210	16	110	15
Mercury	0.085	0.041	0.084	0.044	0.078 B	0.041
Selenium	0.60 J	0.94 J	1	<0.31	0.90 J	0.60 J
Silver	0.11 J	<0.063	0.13 J	<0.065	0.11 J	<0.064
PCBs						
Aroclor-1242	<0.0059	<0.0064	<0.0056	<0.0058	<0.0058	<0.0061
Aroclor-1254	<0.0039	<0.0042	<0.0036	<0.0038	<0.0038	<0.004
Aroclor-1260	<0.0089	<0.0095	<0.0083	<0.0087	<0.0086	<0.0091
Total Detected PCBs	ND	ND	ND	ND	ND	ND

Footnotes on Page 27.

Table 1. Summary of Off-Site Soil Analytical Results, Residential Properties, Madison-Kipp Corporation, Madison, Wisconsin.

Only detected constituents are noted. Constituent concentrations are reported as milligrams per kilogram (mg/kg).

100	Exceeds the WDNR's non-industrial direct contact residual contaminant level.
100	Exceeds the WDNR's industrial direct contact residual contaminant level.
*	Laboratory Control Spike or Laboratory Control Spike Duplicate exceeds the control limits.
<	Constituent not detected above noted laboratory detection limit.
J	Constituent concentration is an approximate value.
B	Compound was found in the blank and sample.
EPA	United States Environmental Protection Agency
L	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the control limits. Analyte not detected, data not impacted.
M1	The MS and/or MSD were outside control limits.
NA	Not analyzed.
NE	Criteria not established.
ND	Total PCBs less than the laboratory detection limit.
PAH	Polycyclic Aromatic Hydrocarbons.
PCBs	Polychlorinated biphenyls.
RCL	Residual contaminant level.
TSCA	Toxic Substance Control Act.
VOCs	Volatile organic compounds.

Table 2. Chemical Specific Background Data for PAHs, Madison-Kipp Corporation, Madison, Wisconsin.

PAHs	Background Study									Soil Analytical Results				
	Bradley, Magee, Allen (1994) (a)			MADEP (1992) (b)		Illinois TACO (2007) (d)			NJDEP&E (1993) (e)		Goodwin Community Center (f)		Madison Kipp (2012)	
	Min (mg/kg)	Max (mg/kg)	Mean (mg/kg)	Concentration in "natural" soil (mg/kg)	Concentration in soil with fill (mg/kg) (c)	Chicago (mg/kg)	Metro Areas (mg/kg)	Non-Metro Areas (mg/kg)	Min (mg/kg)	Max (mg/kg)	Min (mg/kg)	Max (mg/kg)	Min (mg/kg)	Max (mg/kg)
1-Methylnaphthalene	--	--	--	--	--	--	--	--	--	--	0.06	<6.9	0.03	0.063
2-Methylnaphthalene	0.017	0.64	0.15	--	--	--	0.14	0.29	--	--	0.072	<6.9	0.054	0.054
Acenaphthene	0.024	0.34	0.2	0.5	2	0.09	0.13	0.04	--	--	0.0065 Q	55	0.011	0.11
Acenaphthylene	0.018	1.1	0.17	0.5	1	0.03	0.07	0.04	--	--	0.0077 Q	<5.8	0.0083	0.12
Anthracene	0.029	5.7	0.35	1	4	0.25	0.4	0.14	--	--	0.039	8.8 P	0.009	0.27
Benzo(a)anthracene	0.048	15	1.32	2	9	1.1	1.8	0.72	--	--	0.056	24	0.0087	0.79
Benzo(a)pyrene	0.04	13	1.32	2	7	1.3	2.1	0.98	--	--	0.055	28	0.0081	0.82
Benzo(b)fluoranthene	0.049	12	1.44	2	8	1.5	2.1	0.7	--	--	0.057	31	0.0077	1.1
Benzo(g,h,i)perylene	0.20	5.9	0.89	1	3	0.68	1.7	0.84	--	--	0.049	27	0.013	0.58
Benzo(k)fluoranthene	0.043	25	1.68	1	4	0.99	1.7	0.63	--	--	0.051	13	0.0092	0.48
Chrysene	0.038	21	1.84	2	7	1.2	2.7	1.1	1.21	3.93	0.071	37 P	0.0096	0.96
Dibenz(a,h)anthracene	0.02	2.9	0.39	0.5	1	0.2	0.42	0.15	--	--	0.013	<3.5	0.01	0.17
Fluoranthene	0.11	39	3.05	4	10	2.7	4.1	1.8	0.22	4.27	0.15	88 P	0.015	2
Fluorene	0.022	3.3	0.21	1	2	0.1	0.18	0.04	--	--	0.0064 Q	8.7 P	0.0088	0.13
Indeno(1,2,3-cd)pyrene	0.093	6.0	0.99	1	3	0.86	1.6	0.51	--	--	0.027	16	0.015	0.5
Naphthalene	0.018	0.66	0.13	0.5	1	0.04	0.2	0.17	--	--	0.03	<13	0.0072	0.078
Phenanthrene	0.071	36	1.84	3	20	1.3	2.5	0.99	0.49	3.63	0.19	50	0.022	1.3
Pyrene	0.082	11	2.4	4	20	1.9	3.0	1.2	1.43	1.43	0.11	88	0.018	1.5

- (a) Bradley, L.J.N., Magee, B.H., Allen, S.L. Background Levels of Polycyclic Aromatic Hydrocarbons (PAH) and Selected Metals in New England Urban Soils. *Journal of Soil Contamination*. 1994.
 - (b) Background Levels of Polycyclic Aromatic Hydrocarbons and Metals in Soil. Massachusetts Department of Environmental Protection (MADEP). 1992.
 - (c) Soil containing coal ash or wood ash.
 - (d) Illinois Environmental Protection Agency Tiered Approach to Corrective Action Objectives (TACO). In consultation with the Electric Power Research Institute (EPRI). 2007.
 - (e) A Summary of Selected Soil Constituents and Contaminants at Background Locations in New Jersey. New Jersey Department of Environmental Protection & Energy (NJDEP&E) Site Remediation Program and Division of Science and Research. 1993.
 - (f) Goodwin Community Center Soil PAH study. Madison, Wisconsin. 2007. Depth of soil range between 0 and 2.0 feet.
- mg/kg Milligrams per kilogram.
P Concentration of analyte differs more than 40% between primary and confirmation analysis.
PAHs Polycyclic aromatic hydrocarbons.
Q The analyte has been detected between the limit of detection (LOD) and the limit of quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within the range.



● SOIL SAMPLE LOCATION

▭ PARCELS

▭ BUILDING FOOTPRINTS

EPA UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

VOCs VOLATILE ORGANIC COMPOUNDS

PAHs POLYCYCLIC AROMATIC HYDROCARBONS

PCBs POLYCHLORINATED BIPHENYLS

WDNR WISCONSIN DEPARTMENT OF NATURAL RESOURCES

RCL RESIDENTIAL CONTAMINANT LEVEL

ND COMPOUNDS NOT DETECTED ABOVE LABORATORY DETECTION LIMITS

NE COMPOUNDS DETECTED BELOW THE WDNR'S NON-INDUSTRIAL DIRECT RCL (FOR VOCs & PAHs) OR BELOW THE EPA'S HIGH OCCUPANCY CLEANUP LEVEL (FOR PCBs)

E ONE OR MORE COMPOUNDS DETECTED ABOVE THE WDNR'S NON-INDUSTRIAL DIRECT CONTACT RCLs (FOR VOCs AND PAHs) OR ABOVE THE EPA'S HIGH OCCUPANCY CLEANUP LEVEL (FOR PCBs)

NA NOT ANALYZED

0 75 150
Feet

NOTES:
 1. LOCATION OF RESIDENTIAL SAMPLES ARE APPROXIMATE
 2. AERIAL IMAGERY OBTAINED FROM BING IMAGERY SERVICE THROUGH ESRI ONLINE MAPPING, ACCESSED 8/27/12

MADISON-KIPP
 201 WAUBESA STREET
 MADISON, WI

SUMMARY OF OFFSITE SOIL ANALYTICAL RESULTS (0 to 2 ft)

ARCADIS | **RJN Environmental Services, LLC**

RJN Environmental Services, LLC
 SURFACE WATER STUDIES
 GROUNDWATER STUDIES
 SITE INVESTIGATIONS

FIGURE 1



●	SOIL SAMPLE LOCATION
▭	PARCELS
▭	BUILDING FOOTPRINTS
EPA	UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
VOCs	VOLATILE ORGANIC COMPOUNDS
PAHs	POLYCYCLIC AROMATIC HYDROCARBONS
PCBs	POLYCHLORINATED BIPHENYLS
WDNR	WISCONSIN DEPARTMENT OF NATURAL RESOURCES
RCL	RESIDENTIAL CONTAMINANT LEVEL
ND	COMPOUNDS NOT DETECTED ABOVE LABORATORY DETECTION LIMITS
NE	COMPOUNDS DETECTED BELOW THE WDNR'S NON-INDUSTRIAL DIRECT RCL (FOR VOCs & PAHs) OR BELOW THE EPA'S HIGH OCCUPANCY CLEANUP LEVEL (FOR PCBs)
E	ONE OR MORE COMPOUNDS DETECTED ABOVE THE WDNR'S NON-INDUSTRIAL DIRECT CONTACT RCLs (FOR VOCs AND PAHs) OR ABOVE THE EPA'S HIGH OCCUPANCY CLEANUP LEVEL (FOR PCBs)
NA	NOT ANALYZED

0 75 150

Feet

NOTES:
1. LOCATION OF RESIDENTIAL SAMPLES ARE APPROXIMATE
2. AERIAL IMAGERY OBTAINED FROM BING IMAGERY SERVICE THROUGH ESRI ONLINE MAPPING, ACCESSED 8/27/12

MADISON-KIPP
201 WAUBESA STREET
MADISON, WI

SUMMARY OF OFFSITE SOIL ANALYTICAL RESULTS (2 to 4 ft)

RJN Environmental Services, LLC
SURFACE WATER STUDIES
GROUNDWATER STUDIES
SITE INVESTIGATIONS

FIGURE 2