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August 26, 2019

Mr. Michael Schmoller
Wisconsin Department of Natural Resources
South Central Region
3911 Fish Hatchery Road
Fitchburg, WI 53711

Subject: Operations, Monitoring, and Maintenance Semi-annual Report – January 1, 2019 – June 30, 2019, Groundwater and Soil Vapor Extraction Treatment Systems & Rain Garden
Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin
Facility ID #113125320, WDNR BRRTS #02-13-558625 and #02-13-562649

Dear Mr. Schmoller:

TRC, on behalf of Madison-Kipp Corp. (MKC), is reporting on the operation, monitoring, and maintenance (OM&M) of the groundwater and soil vapor extraction treatment systems at MKC's facility at 201 Waubesa Street, Madison, Wisconsin (Site). Wisconsin Department of Natural Resources (WDNR) Form 4400-194 was completed per the requirements of NR 724.13(3). In addition, an update on work completed for the City of Madison's Rain Garden is included in this report. A comprehensive summary and discussion of the site will be included in the 2019 Annual Report which will be submitted in early 2020.

Groundwater Extraction and Treatment System OM&M

MKC is operating a Groundwater Extraction and Treatment System (GETS) for extraction and treatment of tetrachloroethene (PCE)-impacted groundwater.

GETS System Operation

Approximately 8,752,402 gallons of groundwater were treated between January 1, 2019 and June 30, 2019. A GETS operation summary log for this reporting period is included in Table 1. During this reporting period approximately 130 pounds of VOCs were removed. A trend plot depicting the cumulative VOCs removed over time since the start-up of the GETS system is included in Trend Plot A.1 of Attachment 1. In addition, the trend plot showing PCE concentration verses time for the groundwater extraction well (GWE-1) is include in Trend Plot A.2 of Attachment 1. Additional system operation information is noted in the attached Remediation Site Operation, Maintenance, Monitoring, and Optimization Report Form 4400-194 in Attachment 2.

GETS Monthly Discharge Monitoring Reports

MKC/TRC electronically submits monthly (long report) and quarterly (short report) Discharge Monitoring Reports (DMRs) through the WDNR Web Access Management System (WAMS) which is a requirement for the system operation and discharge permit (Wisconsin Pollution Discharge Elimination System Permit number WI-0046566-6). For performance monitoring and permit compliance, TRC collects samples of the extracted groundwater (GETS influent) and treated groundwater (GETS effluent) on a quarterly basis, and after scheduled cleaning events. Table 2 provides the influent and effluent laboratory analytical results for this reporting period.

The DMR long reports are submitted monthly and includes documented daily flow and potassium permanganate neutralization. Total suspended solids are also analyzed for in the influent and effluent if system cleaning is completed during that month. The DMR short reports are submitted on a quarterly basis following influent and effluent system monitoring for volatile organic compounds (VOCs) and select polycyclic aromatic hydrocarbons (PAHs). The DMRs for January through June 2019 were submitted electronically and a copy of the last submittal from the June 2019 monitoring event is included in Attachment 3. Laboratory analytical reports from the quarterly sampling events are included in Attachment 4.

GETS Monthly Vapor Sampling

The GETS produces gases which are treated with granular activated carbon (GAC) for removal of vapor-phase VOCs. The GAC influent and GAC effluent gas are sampled on a semi-annual basis for performance and compliance monitoring, and were sampled June 7, 2019 during this reporting period. An analytical summary table with influent and effluent results are included in Table 3 for this reporting period and the laboratory analytical reports are included in Attachment 4. An emission rate was calculated based on the effluent analytical results and system flow rate; and results were compared to NR 445 and NR 406. No regulatory standards for effluent emissions from the system were exceeded. Tables 4 through 8 include a summary of the emission rates for total VOCs, PCE, trichloroethene (TCE), cis-1,2, dichloroethene (cis-1,2-DCE), and vinyl chloride (VC) for this reporting period.

The influent gas (pre-carbon treatment on June 7, 2019) was also analyzed for comparison purposes and the gas concentrations were below the established NR 445 and NR 406 regulatory standards as well. A summary of these calculations are included in Table 9 through 13.

Soil Vapor Extraction System OM&M

The SVE system has been shut down since October 2018. Soil gas has been monitored during the SVE shut down, and the final proposed round of soil gas monitoring will be completed in July 2019.

Additional system operation information is noted in the attached Remediation Site Operation, Maintenance, Monitoring, and Optimization Report Form 4400-194 in Attachment 2.

Site Groundwater Monitoring

Water level gauging and groundwater sampling at the Site for the first half of the 2019 calendar year was conducted as summarized in Table 14.

Monitoring Well Network and Sampling Program

The Site contains 39 monitoring wells, 4 multi-port wells, and one extraction well (GWE-1). The wells are installed in unconsolidated units and/or bedrock and their locations are shown on Figure 2. The Site's near-surface geology consists of two unconsolidated units consisting of fill material and glacially-derived deposits, which overlie three bedrock formations (Lone Rock, Wonewoc, and Eau Claire).

Groundwater Flow Conditions

Water levels at 40 Site monitoring wells and 20 multi-port well intervals were gauged on April 8, 2019. The groundwater elevations are summarized in Table 15, and overall water elevations were higher in April 2019 than observed in April 2018. A water table map and potentiometric surface maps for the site will be included in the 2019 Annual Report.

Groundwater Sampling Results

Groundwater samples from the monitoring wells and associated quality control samples were analyzed for VOCs, geochemical field parameters, and/or PCBs. The results from the groundwater sampling to date are included in Attachment 5. Table 16 shows results from the two latest sampling events and the laboratory analytical report for April 2019 monitoring event is included in Attachment 6. A time versus concentration plot for the monitoring well with the highest tetrachloroethene concentrations is included in Trend Plot A.3 in Attachment 1. A more extensive round of groundwater monitoring is planned for October 2019 as listed in Table 14.

Rain Garden Semi-annual Sampling

TRC completed the first semi-annual round of sediment sampling as recommended in the December 4, 2018, Rain Garden – 2018 Sediment Monitoring (BRRTS #02-13-562649) letter. A sediment sample was collected from manhole MH-1A and from the Outfall point into the rain garden on May 30, 2019 and analyzed for PCBs using EPA Method 8082. In accordance with Section D Part 2 of the April 2, 2019, U.S. Environmental Protection Agency TSCA PCB Coordinated Approval, one water sample was collected from the outfall area on May 30, 2019 and analyzed for PCBs. Figure 4 shows the location of the sample points, Table 17 includes a summary of the sediment samples collected to date, and Attachment 7 includes the laboratory analytical report for the sediment and water samples collected.

- Based on the semi-annual sediment sample results, the material within MH-1A contains low concentrations of PCBs, below the NR 720 industrial direct contact residual contaminant levels (RCLs). The sediment observed within MH-1A was primarily coarse grain material with some fines and organics.
- Sediment accumulation within the Outfall pipe was minimal and generally consisted of only fine grain material with some organics. Results from the semi-annual monitoring show that sediment containing PCBs continues to discharge from the Outfall, but at concentrations below the NR 720 industrial direct contact RCLs.
- No PCB aroclors analyzed were detected above the laboratory method detection limits for the water sample collected from the outfall point.

Conclusions/Recommendations

The OM&M activities for the GETS were completed as required at the Site during this reporting period. The system operated continuously throughout this reporting period, with the exception of routine maintenance and repairs.

Site groundwater monitoring was completed in April 2019. A more extensive round of groundwater monitoring is planned for October 2019. Water table, potentiometric surface, and isoconcentration maps and a discussion on groundwater quality will be included in the 2019 Annual Report.

After the soil gas monitoring event in July 2019 is complete and results are reviewed, a meeting to discuss the future operations of the SVE system will be held with the WDNR, MKC, and TRC.

Based on the results of the January through June 2019 OM&M, the following work is planned for the remainder of the 2019 calendar year:

- GETS operation;
- SVE evaluation;
- Compliance monitoring;
- Groundwater monitoring (October 2019);
- Soil-Gas monitoring (July 2019);
- Annual report preparation; and
- The second semi-annual sampling of the rain garden will be completed between July and December 2019.

If you have any questions or comments related to this report, please contact Andrew Stehn (608-826-3665) or Katherine Vater (608-826-3663) of TRC.

Sincerely,

TRC

Andrew Stehn, P.E.
Senior Project Engineer

Katherine Vater, P.E.
Project Manger

cc: Mark Sheppard – MKC (electronic)
Regional PCB Coordinator – U.S. EPA (electronic)

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Table 1: Summary of Groundwater Extraction System Operation and Mass Removal - January - June 2019
Madison Kipp Corporation
201 Waubesa Street
Madison, Wisconsin

Date		Groundwater Discharged This Period (gal)	Cumulative Groundwater Discharged (gal)[1]	Average Discharge Flow Rate[2],[5] (gpd)	Average Discharge Flow Rate[2],[5],[6] (gpm)	Influent Sample Results[3] VOCs (µg/L)	Effluent Sample Results[3] VOCs (µg/L)	Cumulative VOCs Removed[1],[4] (pounds)	Comments
1/3/2019	1/3/2019 13:57	1,158,159	64,824,449	57,560	40	NS	NS	980	
1/7/2019	1/7/2019 12:50	227,648	65,052,097	57,582	40	NS	NS	980	
2/13/2019	2/13/2019 12:49	813,680	65,865,777	21,992	15	NS	NS	990	GETs shutdown for valve and pipe repair/maintenance.
2/14/2019	2/14/2019 7:48	37,786	65,903,563	47,772	33	NS	NS	990	
2/27/2019	2/27/2019 11:25	756,663	66,660,226	57,538	40	NS	NS	1000	
3/1/2019	3/1/2019 13:29	119,783	66,780,009	57,419	40	NS	NS	1010	
3/6/2019	3/6/2019 14:28	289,985	67,069,994	57,526	40	1790	17.7	1010	
3/12/2019	3/12/2019 11:00	334,355	67,404,349	57,100	40	NS	NS	1010	
3/20/2019	3/20/2019 9:20	456,275	67,860,624	57,534	40	NS	NS	1020	
3/28/2019	3/28/2019 10:10	277,973	68,138,597	34,596	24	NS	NS	1030	
4/2/2019	4/2/2019 11:10	289,969	68,428,566	57,515	40	NS	NS	1030	
4/3/2019	4/3/2019 13:17	62,621	68,491,187	57,546	40	NS	NS	1030	
4/5/2019	4/5/2019 10:54	20,323	68,511,510	10,692	7	NS	NS	1030	GETS shutdown due to chemical pump fault.
4/8/2019	4/8/2019 14:05	180,048	68,691,558	57,475	40	NS	NS	1030	
4/9/2019	4/9/2019 11:15	50,780	68,742,338	57,577	40	NS	NS	1030	
4/11/2019	4/11/2019 10:36	113,573	68,855,911	57,566	40	NS	NS	1040	
4/23/2019	4/23/2019 14:57	700,618	69,556,529	57,516	40	NS	NS	1050	
4/24/2019	4/24/2019 8:25	41,856	69,598,385	57,512	40	NS	NS	1050	
4/30/2019	4/30/2019 10:19	349,585	69,947,970	57,505	40	NS	NS	1050	
5/1/2019	5/1/2019 13:59	65,762	70,013,732	57,047	40	NS	NS	1050	
5/6/2019	5/6/2019 10:07	278,232	70,291,964	57,499	40	NS	NS	1060	
5/21/2019	5/21/2019 10:15	867,698	71,159,662	57,825	40	NS	NS	1070	
5/30/2019	5/30/2019 14:26	522,680	71,682,342	56,972	40	NS	NS	1080	
6/4/2019	6/4/2019 10:56	279,092	71,961,434	57,495	40	NS	NS	1080	
6/6/2019	6/6/2019 11:06	115,337	72,076,771	57,469	40	NS	NS	1080	
6/7/2019	6/7/2019 11:27	3,855	72,080,626	3,800	3	1863.2	13.9	1080	GETS shutdown for scheduled cleaning
6/12/2019	6/12/2019 10:21	284,778	72,365,404	57,483	40	NS	NS	1090	
6/20/2019	6/20/2019 10:13	459,570	72,824,974	57,486	40	NS	NS	1100	
6/27/2019	6/27/2019 10:12	400,597	73,225,571	57,234	40	NS	NS	1100	

Notes:

-- = Field reading recorded is not consistent with previous collected data and not used for calculations or system issues did not allow a reading to be obtained.

VOCs = Volatile Organic Compounds

GETS - Groundwater Extraction and Treatment System

Updated By: B. Wachholz 7/9/2019

Checked By: A. Coxhead 7/16/2019

Footnotes:

1. The total gallons treated and VOCs removed by the GETS prior to 2019 are included in the 2018 Annual Report and reports referenced therein (TRC, March 2019).
2. The average discharge flow rate calculations noted take into account system down time and are based on volume of groundwater extracted and time elapsed between monitoring events.
3. Analytical laboratory reports for sampling completed between January and June 2019 are included in Attachment 4 of the January to June 2019 Semi-annual Report (TRC, August 2019).
4. Compliance sampling starting in 2019 is completed on a quarterly basis, prior to 2019 sampling was completed on a monthly basis. For weeks where samples were not collected the previously obtained sampling data was used for cumulative VOCs calculations.
5. The extraction and transfer pumps for the GETS contain variable speed frequency drives that fluctuate based on liquid levels in the equalization and mixing tank along with the air stripper liquid level. At times the flow will fluctuate and readings collected over a few days time may reflect bias results for the overall system operation.
6. The soil vapor extraction system was temporarily shutdown on October 25, 2018 for evaluation purposes. Based on the shutdown, the GETS operation flow rate was adjusted to 40 GPM.

Table 2: GETS WPDES Compliance Sample Results - January - June 2019
Madison-Kipp Corporation Site
201 Waubesa Street, Madison, Wisconsin

Parameter[3]	Permit Discharge Limits	Unit	Location Sample Date			
			Influent 3/6/2019	Effluent 3/6/2019	Influent 6/7/2019	Effluent 6/7/2019
Miscellaneous						
Total Suspended Solids	40	mg/L	--	--	<1.9	<1.9
VOCs						
1,1,1-Trichloroethane	50	µg/L	<0.76	<0.38	<0.38	<0.38
1,1,2,2-Tetrachloroethane	50	µg/L	<0.80	<0.40	<0.40	<0.40
1,1,2-Trichloroethane	50	µg/L	<0.70	<0.35	<0.35	<0.35
1,1-Dichloroethene	50	µg/L	<0.78	<0.39	<0.39	<0.39
1,2-Dichloroethane	180	µg/L	<0.78	<0.39	<0.39	<0.39
Benzene	50	µg/L	<0.29	<0.15	0.21 J	<0.15
Bromodichloromethane	120	µg/L	<0.74	<0.37	<0.37	<0.37
Bromoform	120	µg/L	<0.89	<0.45	<0.45	<0.45
Bromomethane	NE	µg/L	<1.3	<0.65	<0.65	<0.65
Carbon Tetrachloride	150	µg/L	<0.77	<0.38	<0.38	<0.38
cis-1,2-Dichloroethene	NE	µg/L	--	--	--	--
Chloromethane	NE	µg/L	<0.64	<0.32	<0.32	<0.32
Ethylbenzene	NE	µg/L	<0.37	<0.18	<0.18	<0.18
Tetrachloroethene	50	µg/L	1600	14	1600	11
Toluene	NE	µg/L	<0.30	<0.15	<0.15	0.16 J
Total Xylenes	NE	µg/L	<0.80	<0.40	<0.40	<0.40
trans-1,2-Dichloroethene	NE	µg/L	--	--	--	--
Trichloroethene	50	µg/L	190	3.7	260	2.7
Vinyl chloride	10	µg/L	<0.41	<0.20	3.0	<0.20
Total BTEX[1]	750	µg/L	<0.80	<0.40	0.21 J	0.16 J
Total VOCs (includes BTEX)	NE	µg/L	1790	17.7	1863.2	13.9
PAHs						
Benzo(a)anthracene	NE	µg/L	<0.024	<0.024	<0.026 H	<0.026 H
Benzo(a)pyrene	0.1	µg/L	<0.024	<0.024	<0.026 H	<0.026 H
Benzo(b)fluoranthene	NE	µg/L	<0.024	<0.024	<0.026 H	<0.026 H
Benzo(g,h,i)perylene	NE	µg/L	<0.048	<0.049	<0.052 H	<0.051 H
Benzo(k)fluoranthene	NE	µg/L	<0.048	<0.049	<0.052 H	<0.051 H
Chrysene	NE	µg/L	<0.048	<0.049	<0.052 H	<0.051 H
Dibenzo(a,h)anthracene	NE	µg/L	<0.024	<0.024	<0.026 H	<0.026 H
Fluoranthene	NE	µg/L	<0.048	<0.049	<0.052 H	<0.051 H
Indeno(1,2,3-cd)pyrene	NE	µg/L	<0.024	<0.024	<0.026 H	<0.026 H
Naphthalene	70	µg/L	<0.048	<0.049	<0.052 H	0.095 J H B
Phenanthrene	NE	µg/L	<0.048	<0.049	0.14 H B	0.19 H B
Pyrene	NE	µg/L	<0.048	<0.049	<0.052 H	<0.051 H
PAHs Group of 10 Total[2]	0.1	µg/L	<0.048	<0.049	0.00014	0.00019

Notes:

Updated by: B. Wachholz 6/24/2019

Checked by: A. Coxhead 7/16/2019

< = Less than

µg/L = Micrograms per liter

mg/L = Milligrams per liter

B = Compound was found in the blank and in the sample.

J = Estimated value. Analyte detected at a level less than the reporting limit and greater than or equal to the detection limit.

H = Sample was prepped or analyzed beyond the specified holding time.

F1 = MS and/or MSD Recovery is outside acceptance limits.

* = ISTD response or retention time outside of acceptable limits.

ND = Not Detected

NE = Not Established

-- = Not analyzed

PAHs = Polynuclear Aromatic Hydrocarbons

VOCs = Volatile Organic Compounds

TSS = Total Suspended Solids

Footnotes:

(1) Total BTEX is the sum of the benzene, toluene, ethylbenzene and xylene concentrations. If all compounds were below their corresponding laboratory detection limits, then the highest detection limit of the BTEX compounds was noted.

(2) PAH group of 10 (Polynuclear Aromatic Hydrocarbons) include the sum of the following individual compounds: benzo(a)anthracene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene, and pyrene. If all compounds were below their corresponding laboratory detection limits, then the highest detection limit of the PAH group compounds was noted.

(3) Following WDNR approval, compliance monitoring parameters and frequency were adjusted in 2019. VOCs and PAHs are monitored on a quarterly basis and TSS is monitored on a periodic basis based on system cleaning.

Table 3: Combined SVE and GETS Gas Analytical Data - January 2016 - June 2019
Madison-Kipp Corporation
201 Waubesa Street
Madison, Wisconsin

Sample Date	1/18/2016		2/8/2016		3/7/2016		4/6/2016		5/4/2016		6/7/2016		7/20/2016		8/8/2016		9/9/2016		10/10/2016		11/7/2016		12/7/2016	
Sample Location	**Influent**	**Effluent**	**Influent**	**Effluent**	**Influent**	**Effluent**	**Influent**	**Effluent**	**Influent**	**Effluent**	**Influent**	**Effluent**	**Influent**	**Effluent**	**Influent**	**Effluent**	**Influent**	**Effluent**	**Influent**	**Effluent**	**Influent**	**Effluent**	**Influent**	**Effluent**
Vinyl Chloride	<7.2	**1.9**	<3.7	<2.2	<2.2	**2.2**	<16	**3.4**	<14	<2.0	<16	<2.2	<20	<7.8	<16	<3.3	<7.2	<5.2	<2.7	<1.3	<12	<2.4	<5.7	<2.0
1,1-Dichloroethene	<7.2	<1.6	<3.7	<2.2	<2.2	<1.3	<16	**1.8**	<14	<2.0	<16	<2.2	<20	<7.8	<16	<3.3	<7.2	<5.2	<2.7	<1.3	<12	<2.4	<5.7	<2.0
cis-1,2-Dichloroethene	**640**	**220**	**220**	**130**	**150**	**460**	**480**	**360**	**530**	**430**	**440**	**450**	**530**	**1900**	**600**	**1100**	**350**	**1300**	**230**	**160**	**570**	**710**	**640**	**500**
Benzene	<7.2	**1.8**	<3.7	<2.2	<2.2	<1.3	<16	<1.3	<14	<2.0	<16	<2.2	<20	<7.8	<16	<3.3	<7.2	<5.2	<2.7	<1.3	<12	<2.4	<5.7	<2.0
Trichloroethene	**370**	**20**	**130**	**23**	**78**	**13**	**400**	**15**	**340**	**16**	**400**	**17**	**440**	**48**	**550**	**39**	**390**	**32**	**130**	**35**	**470**	**110**	**460**	**130**
Toluene	<7.2	<1.6	**25**	<2.2	<2.2	<1.3	<16	**3**	<14	<2.0	<16	**18**	<20	<7.8	<16	<3.3	<7.2	<5.2	<2.7	**4.0**	**13**	**6.5**	<5.7	**3.5**
Tetrachloroethene	**2400**	**340**	**1100**	**340**	**690**	**140**	**4100**	**200**	**3100**	**180**	**3700**	**180**	**3500**	**130**	**3900**	**160**	**2000**	**140**	**1000**	**350**	**3100**	**150**	**1800**	**230**
Ethyl Benzene	<7.2	<1.6	<3.7	<2.2	<2.2	<1.3	<16	**15**	<14	<2.0	<16	<2.2	<20	<7.8	<16	<3.3	<7.2	<5.2	<2.7	<1.3	<12	<2.4	<5.7	<2.0
m,p-Xylene	<7.2	<1.6	<3.7	<2.2	<2.2	<1.3	**28**	**72**	<14	**2.2**	<16	**2.4**	<20	<7.8	<16	<3.3	<7.2	<5.2	<2.7	**1.8**	<12	**6.8**	<5.7	**2.0 J**
o-Xylene	<7.2	<1.6	<3.7	<2.2	<2.2	<1.3	<16	**32**	<14	<2.0	<16	<2.2	<20	<7.8	<16	<3.3	<7.2	<5.2	<2.7	<1.3	<12	<2.4	<5.7	<2.0
1,3,5-Trimethylbenzene	<7.2	<1.6	<3.7	<2.2	**8.9**	<1.3	<16	**3.8**	<14	<2.0	<16	<2.2	<20	<7.8	<16	<3.3	<7.2	<5.2	<2.7	<1.3	<12	<2.4	<5.7	<2.0
1,2,4-Trimethylbenzene	<7.2	<1.6	<3.7	<2.2	**42**	**7.8**	<16	**9.1**	<14	<2.0	<16	<2.2	<20	<7.8	<16	<3.3	<7.2	<5.2	<2.7	<1.3	<12	<2.4	<5.7	<2.0

Notes:

All concentrations in this table are reported in ppbv unless otherwise noted.

All samples were analyzed using Method TO-15 and the analytes shown in the table are from the VOC analyte list. Only analytes that were detected in at least one sample are shown in the table. A complete list of constituents analyzed are included in the laboratory analytical reports.

< = Constituent not detected above noted laboratory method detection limit.

The SVE system was shut down in October 2018 for evaluation purposes. Results summarized between November 2018 and June 2019 are representative of the GETS gas concentrations only.

Bold = Constituent detected above laboratory detection limit.

SVE = soil vapor extraction

GETS = groundwater extraction and treatment system

ppbv = parts per billon by volume

VOCs = volatile organic compounds

Table 3: Combined SVE and GETS Gas Analytical Data - January 2016 - June 2019
Madison-Kipp Corporation
201 Waubesa Street
Madison, Wisconsin

Sample Date	1/17/2017		2/8/2017		3/7/2017		4/6/2017		5/5/2017		6/7/2017		7/11/2017		8/7/2017		9/14/2017		10/5/2017		11/30/2017		12/8/2017	
Sample Location	**Influent**	**Effluent**	**Influent**	**Effluent**	**Influent**	**Effluent**	**Influent**	**Effluent**	**Influent**	**Effluent**	**Influent**	**Effluent**	**Influent**	**Effluent**	**Influent**	**Effluent**	**Influent**	**Effluent**	**Influent**	**Effluent**	**Influent**	**Effluent**	**Influent**	**Effluent**
Vinyl Chloride	<11	**3.8**	<23	**2.8**	<6.0	**3.3**	<8.4	**2.9**	<2.5	<2.4	<13	**3.0**	<10	**2.9**	<12	**4.5**	<15	**5.3**	<4.7	**6.8**	**7.0**	**3.9**	**10**	**8.5**
1,1-Dichloroethene	<11	<1.7	<23	<1.1	<6.0	<1.6	<8.4	<1.2	<2.5	<2.4	<13	<1.6	<10	<2.7	<12	<4.2	<15	<4.6	<4.7	<2.6	<5.4	<1.2	<6.4	<2.6
cis-1,2-Dichloroethene	**1100**	**670**	**1100**	**460**	**700**	**510**	**680**	**500**	**260**	**420**	**610**	**240**	**870**	**770**	**730**	**470**	**440**	**450**	**280**	**720**	**430**	**110**	**720**	**270**
Benzene	<11	<1.7	<23	<1.1	<6.0	<1.6	<8.4	<1.2	<2.5	<2.4	<13	<1.6	<10	<2.7	<12	<4.2	<15	<4.6	<4.7	<2.6	<5.4	<1.2	<6.4	<2.6
Trichloroethene	**880**	**300**	**1000**	**340**	**440**	**210**	**420**	**410**	**240**	**400**	**520**	**200**	**530**	**430**	**570**	**700**	**490**	**1500**	**270**	**1000**	**380**	**360**	**540**	**750**
Toluene	<11	**14**	<23	**3.9**	<6.0	**8.8**	<8.4	**6.6**	**4.5**	**5.9**	<13	<1.6	<10	<2.7	<12	<4.2	<15	<4.6	<4.7	<2.6	**17**	<1.2	<6.4	<2.6
Tetrachloroethene	**3200**	**210**	**5300**	**300**	**1400**	**280**	**2200**	**140**	**810**	**230**	**2500**	**240**	**2300**	**280**	**2700**	**260**	**2900**	**230**	**1300**	**200**	**1600**	**360**	**2400**	**730**
Ethyl Benzene	<11	<1.7	<23	<1.1	<6.0	<1.6	<8.4	<1.2	<2.5	<2.4	<13	<1.6	<10	<2.7	<12	<4.2	<15	<4.6	<4.7	<2.6	<5.4	<1.2	<6.4	<2.6
m,p-Xylene	<11	**2.4**	<23	**2.2**	<6.0	**4.2**	<8.4	**2.2**	<2.5	<2.4	<13	<1.6	<10	<2.7	<12	<4.2	<15	<4.6	<4.7	<2.6	<5.4	<1.2	<6.4	<2.6
o-Xylene	<11	<1.7	<23	<1.1	<6.0	<1.6	<8.4	<1.2	<2.5	<2.4	<13	<1.6	<10	<2.7	<12	<4.2	<15	<4.6	<4.7	<2.6	<5.4	<1.2	<6.4	<2.6
1,3,5-Trimethylbenzene	<11	<1.7	<23	<1.1	<6.0	<1.6	<8.4	<1.2	<2.5	<2.4	<13	<1.6	<10	<2.7	<12	<4.2	<15	<4.6	<4.7	<2.6	<5.4	<1.2	<6.4	<2.6
1,2,4-Trimethylbenzene	<11	<1.7	<23	<1.1	<6.0	<1.6	<8.4	<1.2	<2.5	<2.4	<13	<1.6	<10	<2.7	<12	<4.2	<15	<4.6	<4.7	<2.6	<5.4	<1.2	<6.4	<2.6

Notes:

All concentrations in this table are reported in ppbv unless otherwise noted.

All samples were analyzed using Method TO-15 and the analytes shown in the table are from the VOC analyte list. Only analytes that were detected in at least one sample are shown in the table. A complete list of constituents analyzed are included in the laboratory analytical reports.

< = Constituent not detected above noted laboratory method detection limit.

The SVE system was shut down in October 2018 for evaluation purposes. Results summarized between November 2018 and June 2019 are representative of the GETS gas concentrations only.

Bold = Constituent detected above laboratory detection limit.

SVE = Soil vapor extraction

GETS = Groundwater extraction and treatment system

ppbv = parts per billon by volume

VOCs = Volatile Organic Compounds

Table 3: Combined SVE and GETS Gas Analytical Data - January 2016 - June 2019
Madison-Kipp Corporation
201 Waubesa Street
Madison, Wisconsin

Sample Date	1/8/2018		2/6/2018		3/8/2018		4/3/2018		5/8/2018		6/6/2018		7/9/2018		8/20/2018		9/4/2018		10/8/2018		11/5/2018		12/10/2018		6/7/2019	
Sample Location	**Influent**	**Effluent**	**Influent**	**Effluent**	**Influent**	**Effluent**	**Influent**	**Effluent**	**Influent**	**Effluent**	**Influent**	**Effluent**	**Influent**	**Effluent**	**Influent**	**Effluent**	**Influent**	**Effluent**	**Influent**	**Effluent**	**Influent**	**Effluent**	**Influent**	**Effluent**	**Influent**	**Effluent**
Vinyl Chloride	**23**	**20**	**10**	**11**	**10**	**4.3**	**8.8**	**9.2**	**7.2**	**7.5**	**8.4**	**8.1**	**8.5**	**8.6**	**7.3**	<2.6	**12**	<3.4	**14**	**11**	**17**	**15**	**12**	**12**	**16**	**9.7**
1,1-Dichloroethene	<6.2	<6.7	<2.7	<1.2	<4.8	<1.2	<6.5	<2.8	<2.8	<3.1	<3.4	<1.4	<6.8	<2.8	<4.1	<2.6	<3.3	<3.4	<8.3	<3.1	<5.5	<3.1	<9.4	<5.1	<6.6	<1.2
cis-1,2-Dichloroethene	**700**	**740**	**600**	**240**	**780**	**200**	**670**	**430**	**600**	**1100**	**590**	**170**	**630**	**350**	**860**	**450**	**1200**	**850**	**650**	**360**	**920**	**430**	**910**	**530**	**1500**	**420**
Benzene	<6.2	<6.7	<2.7	**1.7**	<4.8	**2.4**	<6.5	<2.8	<2.8	<3.1	<3.4	**1.5**	<6.8	<2.8	<4.1	<2.6	<3.3	**4.5**	<8.3	<3.1	<5.5	<3.1	<9.4	<5.1	<6.6	<1.2
Trichloroethene	**440**	**440**	**370**	**74**	**440**	**66**	**470**	**120**	**400**	**240**	**330**	**220**	**500**	**360**	**340**	**290**	**530**	**740**	**420**	**320**	**540**	**250**	**610**	**220**	**660**	**75**
Toluene	<6.2	<6.7	<2.7	<1.2	<4.8	**1.9**	<6.5	<2.8	<2.8	<3.1	<3.4	<1.4	<6.8	<2.8	<4.1	<2.6	<3.3	<3.4	<8.3	<3.1	<5.5	<3.1	<9.4	<5.1	<6.6	**1.4**
Tetrachloroethene	**1400**	**1600**	**860**	**440**	**1100**	**220**	**1700**	**610**	**1100**	**820**	**990**	**500**	**1600**	**640**	**520**	**380**	**880**	**1400**	**1300**	**880**	**1400**	**680**	**3500**	**1600**	**1700**	**200**
Ethyl Benzene	<6.2	<6.7	<2.7	<1.2	<4.8	<1.2	<6.5	<2.8	<2.8	<3.1	<3.4	<1.4	<6.8	<2.8	<4.1	<2.6	<3.3	<3.4	<8.3	<3.1	<5.5	<3.1	<9.4	<5.1	<6.6	<1.2
m,p-Xylene	<6.2	<6.7	<2.7	<1.2	<4.8	<1.2	<6.5	<2.8	<2.8	<3.1	<3.4	**1.4**	<6.8	<2.8	<4.1	<2.6	<3.3	<3.4	<8.3	<3.1	<5.5	<3.1	<9.4	<5.1	<6.6	<1.2
o-Xylene	<6.2	<6.7	<2.7	<1.2	<4.8	<1.2	<6.5	<2.8	<2.8	<3.1	<3.4	<1.4	<6.8	<2.8	<4.1	<2.6	<3.3	<3.4	<8.3	<3.1	<5.5	<3.1	<9.4	<5.1	<6.6	<1.2
1,3,5-Trimethylbenzene	<6.2	<6.7	<2.7	<1.2	<4.8	<1.2	<6.5	<2.8	<2.8	<3.1	<3.4	<1.4	<6.8	<2.8	<4.1	<2.6	<3.3	<3.4	<8.3	<3.1	<5.5	<3.1	<9.4	<5.1	<6.6	<1.2
1,2,4-Trimethylbenzene	<6.2	<6.7	<2.7	<1.2	<4.8	**1.3**	<6.5	<2.8	<2.8	<3.1	<3.4	<1.4	<6.8	<2.8	<4.1	<2.6	<3.3	<3.4	<8.3	<3.1	<5.5	<3.1	<9.4	<5.1	<6.6	<1.2

Notes:

Updated by: B. Wachholz 7/9/2019
Checked by: A. Coxhead 7/16/2019

All concentrations in this table are reported in ppbv unless otherwise noted.
All samples were analyzed using Method TO-15 and the analytes shown in the table are from the VOC analyte list. Only analytes that were detected in at least one sample are shown in the table. A complete list of constituents analyzed are included in the laboratory analytical reports.
< = Constituent not detected above noted laboratory method detection limit.
The SVE system was shut down in October 2018 for evaluation purposes. Results summarized between November 2018 and June 2019 are representative of the GETS gas concentrations only.
Bold = Constituent detected above laboratory detection limit.
SVE = Soil vapor extraction
GETS = Groundwater extraction and treatment system
ppbv = parts per billon by volume
VOCs = Volatile Organic Compounds

Table 4: Estimate of GAC Effluent Emissions - Total Volatile Organic Compounds
Madison-Kipp Corporation
201 Waubesa Street
Madison, Wisconsin

Date[3]	Total VOC Concentration[1][2] µg/m^3	System Flow Rate[4] CFM	Emission Rate[5] lb/hr
1/18/2016	3500	389.4	5.2E-03
2/8/2016	3300	362.2	4.5E-03
3/7/2016	3100	364.1	4.2E-03
4/6/2016	3700	363.8	5.0E-03
5/4/2016	3300	361.0	4.5E-03
6/7/2016	3500	354.9	4.7E-03
7/20/2016	9900	359.6	1.3E-02
8/8/2016	6400	354.1	8.5E-03
9/9/2016	7100	346.9	9.2E-03
10/10/2016	3500	361.1	4.7E-03
11/7/2016	4900	357.8	6.5E-03
12/7/2016	4600	366.9	6.3E-03
1/17/2017	6000	376.7	8.4E-03
2/8/2017	5800	375.3	8.2E-03
3/7/2017	5400	355.8	7.2E-03
4/6/2017	5400	352.6	7.1E-03
5/5/2017	5800	353.8	7.7E-03
6/7/2017	3900	358.1	5.3E-03
7/11/2017	7700	346.0	9.9E-03
8/7/2017	8100	355.8	1.1E-02
9/14/2017	12200	368.0	1.7E-02
10/5/2017	10300	367.5	1.4E-02
11/30/2017	5000	375.2	7.1E-03
12/8/2017	10600	384.0	1.5E-02
1/8/2018	17400	390.1	2.5E-02
2/6/2018	4600	395.0	6.8E-03
3/8/2018	2900	381.9	4.1E-03
4/3/2018	7000	367.9	9.6E-03
5/8/2018	11700	349.6	1.5E-02
6/6/2018	5500	347.8	7.2E-03
7/9/2018	8300	345.2	1.1E-02
8/20/2018	6400	352.2	8.5E-03
9/4/2018	17200	336.8	2.2E-02
10/8/2018	9700	355.9	1.3E-02
11/5/2018	3300	194.6	2.4E-03
12/10/2018	15200	230.1	1.3E-02
6/7/2019	3700	188.5	2.6E-03
		Average Emission Rate[6] =	**9.0E-03**
		NR 406 Emission Threshold =	**5.7**

Notes:

Updated by: B. Wachholz 7/9/2019
Checked by: A. Coxhead 7/16/2019

VOCs = volatile organic compounds
SVE = soil vapor extraction
GETS = groundwater extraction and treatment system.
CFM = cubic feet per minute
µg/m^3 = micrograms per cubic meters
lb/hr = pounds per hour

Footnotes:

1. The total VOC concentration noted between January 2016 and October 2018, represents results from the effluent sample collected post treatment of the SVE and GETS operations. In October 2018, the SVE system was shutdown for evaluation and the total VOC concentration reported following is representative of the effluent results from only the GETS operation. Samples were analyzed using EPA Method TO-15.
2. Total VOC concentrations noted were calculated based on analytes reported above and below the method reporting limit. For detected analytes, the reported concentrations were used. For all other analytes detected below the method reporting limit, half of the reporting limit was used.
3. The sampling frequency was adjusted in 2019 from monthly to semi-annually.
4. Between July 2015 and October 2018 the system flow rate represented the combined air flow rate from both the GETS and SVE system and was measured using flow meter FIT-201 which measures total flow from the activated carbon system. The SVE was shutdown for evaluation in October 2018 and remained off through June 2019.
5. Emission rates were calculated based on the product of the total VOC concentration and the system flow rate at the time of monitoring.
6. Average Emission Rate is an average based on samples collected between January 2016 and June 2019.

Table 5: Estimate of GAC Effluent Gas Emissions for Tetrachloroethene
Madison-Kipp Corporation
201 Waubesa Street
Madison, Wisconsin

Date[3]	Total PCE Concentration[1][2] µg/m^3	System Flow Rate[4] CFM	Emission Rate[5] lb/hr
1/18/2016	2300	389.4	3.4E-03
2/8/2016	2300	362.2	3.1E-03
3/7/2016	980	364.1	1.3E-03
4/6/2016	1400	363.8	1.9E-03
5/4/2016	1200	361.0	1.6E-03
6/7/2016	1200	354.9	1.6E-03
7/20/2016	890	359.6	1.2E-03
8/8/2016	1100	354.1	1.5E-03
9/9/2016	950	346.9	1.2E-03
10/10/2016	2400	361.1	3.2E-03
11/7/2016	1000	357.8	1.3E-03
12/7/2016	1500	366.9	2.1E-03
1/17/2017	1400	376.7	2.0E-03
2/8/2017	2000	375.3	2.8E-03
3/7/2017	1900	355.8	2.5E-03
4/6/2017	930	352.6	1.2E-03
5/5/2017	1600	353.8	2.1E-03
6/7/2017	1600	358.1	2.1E-03
7/11/2017	1900	346.0	2.5E-03
8/7/2017	1800	355.8	2.4E-03
9/14/2017	1600	368.0	2.2E-03
10/5/2017	1400	367.5	1.9E-03
11/30/2017	2400	375.2	3.4E-03
12/8/2017	5000	384.0	7.2E-03
1/8/2018	11000	390.1	1.6E-02
2/6/2018	3000	395.0	4.4E-03
3/8/2018	1500	381.9	2.1E-03
4/3/2018	4100	367.9	5.6E-03
5/8/2018	5500	349.6	7.2E-03
6/6/2018	3400	347.8	4.4E-03
7/9/2018	4400	345.2	5.7E-03
8/20/2018	2600	352.2	3.4E-03
9/4/2018	9200	336.8	1.2E-02
10/8/2018	6000	355.9	8.0E-03
11/5/2018	4600	194.6	3.4E-03
12/10/2018	11000	230.1	9.5E-03
6/7/2019	1400	188.5	9.9E-04
		Average Emission Rate[6] =	**4.9E-03**
		NR 445 Emission Threshold =	**35.4**

Notes:

Updated by: B. Wachholz 7/9/2019
Checked by: A. Coxhead 7/16/2019

PCE = tetrachloroethene
SVE = soil vapor extraction
GETS = groundwater extraction and treatment system.
CFM = cubic feet per minute
µg/m^3 = micrograms per cubic meters
lb/hr = pounds per hour

Footnotes:

1. The PCE concentration noted between January 2016 and October 2018, represents results from the effluent sample collected post treatment of the SVE and GETS operations. In October 2018, the SVE system was shutdown for evaluation and the PCE concentration reported following is representative of the effluent results from only the GETS operation. Samples were analyzed using EPA Method TO-15.
2. The PCE concentration reported in the effluent sample was used for emission calculations. If the concentration was reported below the method reporting limit, half of the reporting limit was used for calculations.
3. The sampling frequency was adjusted in 2019 from monthly to semi-annually.
4. Between July 2015 and October 2018, the system flow rate represented the combined air flow rate from both the GETS and SVE system and was measured using flow meter FIT-201 which measures total flow from the activated carbon system. The SVE was shutdown for evaluation in October 2018 and remained off through June 2019.
5. Emission rates were calculated based on the product of the PCE concentration and the system flow rate at the time of monitoring.
6. Average Emission Rate is an average based on samples collected between January 2016 and June 2019.

Table 6: Estimate of GAC Effluent Gas Emissions for Trichloroethene
Madison-Kipp Corporation
201 Waubesa Street
Madison, Wisconsin

Date[3]	TCE Concentration[1][2] µg/m^3	System Flow Rate[4] CFM	Emission Rate[5] lb/hr
1/18/2016	110	389.4	1.6E-04
2/8/2016	120	362.2	1.6E-04
3/7/2016	71	364.1	9.7E-05
4/6/2016	81	363.8	1.1E-04
5/4/2016	85	361.0	1.1E-04
6/7/2016	91	354.9	1.2E-04
7/20/2016	260	359.6	3.5E-04
8/8/2016	210	354.1	2.8E-04
9/9/2016	170	346.9	2.2E-04
10/10/2016	190	361.1	2.6E-04
11/7/2016	600	357.8	8.0E-04
12/7/2016	700	366.9	9.6E-04
1/17/2017	1600	376.7	2.3E-03
2/8/2017	1800	375.3	2.5E-03
3/7/2017	1200	355.8	1.6E-03
4/6/2017	2200	352.6	2.9E-03
5/5/2017	2100	353.8	2.8E-03
6/7/2017	1100	358.1	1.5E-03
7/11/2017	2300	346.0	3.0E-03
8/7/2017	3700	355.8	4.9E-03
9/14/2017	8000	368.0	1.1E-02
10/5/2017	5500	367.5	7.6E-03
11/30/2017	2000	375.2	2.8E-03
12/8/2017	4000	384.0	5.8E-03
1/8/2018	2300	390.1	3.4E-03
2/6/2018	400	395.0	5.9E-04
3/8/2018	350	381.9	5.0E-04
4/3/2018	660	367.9	9.1E-04
5/8/2018	1300	349.6	1.7E-03
6/6/2018	1200	347.8	1.6E-03
7/9/2018	2000	345.2	2.6E-03
8/20/2018	1600	352.2	2.1E-03
9/4/2018	4000	336.8	5.0E-03
10/8/2018	1700	355.9	2.3E-03
11/5/2018	1300	194.6	9.5E-04
12/10/2018	1200	230.1	1.0E-03
6/7/2019	400	188.5	2.8E-04
		Average Emission Rate[6] =	**2.8E-03**
		NR 445 Emission Threshold =	**56.1**

Notes:

Updated by: B. Wachholz 7/9/2019

Checked by: A. Coxhead 7/16/2019

TCE = trichloroethene

SVE = soil vapor extraction

GETS = groundwater extraction and treatment system.

CFM = cubic feet per minute

µg/m^3 = micrograms per cubic meters

lb/hr = pounds per hour

Footnotes:

1. The TCE concentration noted between January 2016 and October 2018, represents results from the effluent sample collected post treatment of the SVE and GETS operations. In October 2018, the SVE system was shutdown for evaluation and the TCE concentration reported following is representative of the effluent results from only the GETS operation. Samples were analyzed using EPA Method TO-15.
2. The TCE concentration reported in the effluent sample was used for emission calculations. If the concentration was reported below the method reporting limit, half of the reporting limit was used for calculations.
3. The sampling frequency was adjusted in 2019 from monthly to semi-annually.
4. Between July 2015 and October 2018, the system flow rate represented the combined air flow rate from both the GETS and SVE system and was measured using flow meter FIT-201 which measures total flow from the activated carbon system. The SVE was shutdown for evaluation in October 2018 and remained off through June 2019.
5. Emission rates were calculated based on the product of the TCE concentration and the system flow rate at the time of monitoring.
6. Average Emission Rate is an average based on samples collected between January 2016 and June 2019.

Table 7: Estimate of GAC Effluent Gas Emissions for cis-1,2-Dichloroethene
Madison-Kipp Corporation
201 Waubesa Street
Madison, Wisconsin

Date[3]	cis-1,2-DCE Concentration[1][2] µg/m^3	System Flow Rate[4] CFM	Emission Rate[5] lb/hr
1/18/2016	860	389.4	1.3E-03
2/8/2016	530	362.2	7.2E-04
3/7/2016	1800	364.1	2.5E-03
4/6/2016	1400	363.8	1.9E-03
5/4/2016	1700	361.0	2.3E-03
6/7/2016	1800	354.9	2.4E-03
7/20/2016	7400	359.6	1.0E-02
8/8/2016	4500	354.1	6.0E-03
9/9/2016	5100	346.9	6.6E-03
10/10/2016	620	361.1	8.4E-04
11/7/2016	2800	357.8	3.8E-03
12/7/2016	2000	366.9	2.7E-03
1/17/2017	2600	376.7	3.7E-03
2/8/2017	1800	375.3	2.5E-03
3/7/2017	2000	355.8	2.7E-03
4/6/2017	2000	352.6	2.6E-03
5/5/2017	1700	353.8	2.3E-03
6/7/2017	960	358.1	1.3E-03
7/11/2017	3000	346.0	3.9E-03
8/7/2017	1900	355.8	2.5E-03
9/14/2017	1800	368.0	2.5E-03
10/5/2017	2900	367.5	4.0E-03
11/30/2017	420	375.2	5.9E-04
12/8/2017	1100	384.0	1.6E-03
1/8/2018	2900	390.1	4.2E-03
2/6/2018	950	395.0	1.4E-03
3/8/2018	780	381.9	1.1E-03
4/3/2018	1700	367.9	2.3E-03
5/8/2018	4300	349.6	5.6E-03
6/6/2018	680	347.8	8.9E-04
7/9/2018	1400	345.2	1.8E-03
8/20/2018	1800	352.2	2.4E-03
9/4/2018	3400	336.8	4.3E-03
10/8/2018	1400	355.9	1.9E-03
11/5/2018	1700	194.6	1.2E-03
12/10/2018	2100	230.1	1.8E-03
6/7/2019	1700	188.5	1.2E-03
		Average Emission Rate[6] =	**2.7E-03**
		NR 445 Emission Threshold =	**166**

Notes:

Updated by: B. Wachholz 7/9/2019

Checked by: A. Coxhead 7/16/2019

cis-1,2-DCE = cis-1,2-dichloroethene

SVE = soil vapor extraction

GETS = Groundwater extraction and treatment system.

CFM = cubic feet per minute

µg/m^3 = micrograms per cubic meters

lb/hr = pounds per hour

Footnotes:

1. The cis-1,2-DCE concentration noted between January 2016 and October 2018, represents results from the effluent sample collected post treatment of the SVE and GETS operations. In October 2018, the SVE system was shutdown for evaluation and the cis-1,2-DCE concentration reported following is representative of the effluent results from only the GETS operation. Samples were analyzed using EPA Method TO-15.
2. The cis-1,2-DCE concentration reported in the effluent sample was used for emission calculations. If the concentration was reported below the method reporting limit, half of the reporting limit was used for calculations.
3. The sampling frequency was adjusted in 2019 from monthly to semi-annually.
4. Between July 2015 and October 2018, the system flow rate represented the combined air flow rate from both the GETS and SVE system and was measured using flow meter FIT-201 which measures total flow from the activated carbon system. The SVE was shutdown for evaluation in October 2018 and remained off through June 2019.
5. Emission rates were calculated based on the product of the cis-1,2-DCE concentration and the system flow rate at the time of monitoring.
6. Average Emission Rate is an average based on samples collected between January 2016 and June 2019.

Table 8: Estimate of GAC Effluent Gas Emissions for Vinyl Chloride
Madison-Kipp Corporation
201 Waubesa Street
Madison, Wisconsin

Date[3]	Vinyl Chloride Concentration[1][2] µg/m^3	System Flow Rate[4] CFM	Emission Rate[5] lb/hr	Emission Rate[5] lb/yr
1/18/2016	5.0	389.4	7.3E-06	6.4E-02
2/8/2016	2.9	362.2	3.9E-06	3.4E-02
3/7/2016	5.7	364.1	7.8E-06	6.8E-02
4/6/2016	8.8	363.8	1.2E-05	1.1E-01
5/4/2016	2.6	361	3.5E-06	3.1E-02
6/7/2016	2.85	354.9	3.79E-06	3.32E-02
7/20/2016	10.0	359.6	1.35E-05	1.18E-01
8/8/2016	4.20	354.1	5.57E-06	4.88E-02
9/9/2016	6.50	346.9	8.45E-06	7.40E-02
10/10/2016	1.65	361.1	2.23E-06	1.95E-02
11/7/2016	3.05	357.8	4.09E-06	3.58E-02
12/7/2016	2.6	366.9	3.57E-06	3.13E-02
1/17/2017	9.8	376.7	1.38E-05	1.21E-01
2/8/2017	7.2	375.3	1.01E-05	8.87E-02
3/7/2017	8.4	355.8	1.12E-05	9.81E-02
4/6/2017	7.3	352.6	9.64E-06	8.45E-02
5/5/2017	3.1	353.8	4.11E-06	3.60E-02
6/7/2017	7.6	358.1	1.02E-05	8.93E-02
7/11/2017	7.5	346.0	9.72E-06	8.51E-02
8/7/2017	11	355.8	1.47E-05	1.28E-01
9/14/2017	13	368.0	1.79E-05	1.57E-01
10/5/2017	17	367.5	2.34E-05	2.05E-01
11/30/2017	10	375.2	1.41E-05	1.23E-01
12/8/2017	22	384.0	3.16E-05	2.77E-01
1/8/2018	51	390.1	7.45E-05	6.53E-01
2/6/2018	28	395.0	4.14E-05	3.63E-01
3/8/2018	11	381.9	1.57E-05	1.38E-01
4/3/2018	24	367.9	3.31E-05	2.90E-01
5/8/2018	19	349.6	2.49E-05	2.18E-01
6/6/2018	21	347.8	2.74E-05	2.40E-01
7/9/2018	22	345.2	2.84E-05	2.49E-01
8/20/2018	3.3	352.2	4.35E-06	3.81E-02
9/4/2018	4.3	336.8	5.42E-06	4.75E-02
10/8/2018	29	355.9	3.87E-05	3.39E-01
11/5/2018	38	194.6	2.77E-05	2.43E-01
12/10/2018	29	230.1	2.50E-05	2.19E-01
6/7/2019	25	188.5	1.77E-05	1.55E-01
			Average Emission Rate[6] =	**9.2E-02**
			NR 445 Emission Threshold =	**830**

Notes:

Updated by: B. Wachholz 7/9/2019

Checked by: A. Coxhead 7/16/2019

VC = vinyl chloride

SVE = soil vapor extraction

GETS = groundwater extraction and treatment system.

CFM = cubic feet per minute

µg/m^3 = micrograms per cubic meters

lb/hr = pounds per hour

lb/yr = pounds per year

Footnotes:

1. The VC concentration noted between January 2016 and October 2018, represents results from the effluent sample collected post treatment of the SVE and GETS operations. In October 2018, the SVE system was shutdown for evaluation and the VC concentration reported following is representative of the effluent results from only the GETS operation. Samples were analyzed using EPA Method TO-15.
2. The VC concentration reported in the effluent sample was used for emission calculations. If the concentration was reported below the method reporting limit, half of the reporting limit was used for calculations.
3. The sampling frequency was adjusted in 2019 from monthly to semi-annually.
4. Between July 2015 and October 2018, the system flow rate represented the combined air flow rate from both the GETS and SVE system and was measured using flow meter FIT-201 which measures total flow from the activated carbon system. The SVE was shutdown for evaluation in October 2018 and remained off through June 2019.
5. Emission rates were calculated based on the product of the VC concentration and the system flow rate at the time of monitoring.
6. Average Emission Rate is an average based on samples collected between January 2016 and June 2019.

Table 9: Estimate of GAC Influent Gas Rate - Total Volatile Organic Compounds
Madison-Kipp Corporation
201 Waubesa Street
Madison, Wisconsin

Date[3]	Total VOC Concentration[1][2] µg/m^3	System Flow Rate[4] CFM	Gas Rate[5] lb/hr
1/18/2016	21700	389.4	3.2E-02
2/8/2016	9600	362.2	1.3E-02
3/7/2016	6300	364.1	8.6E-03
4/6/2016	34800	363.8	4.7E-02
5/4/2016	27300	361.0	3.7E-02
6/7/2016	31700	354.9	4.2E-02
7/20/2016	32000	359.6	4.3E-02
8/8/2016	34200	354.1	4.5E-02
9/9/2016	17700	346.9	2.3E-02
10/10/2016	9100	361.1	1.2E-02
11/7/2016	27900	357.8	3.7E-02
12/7/2016	18000	366.9	2.5E-02
1/17/2017	33100	376.7	4.7E-02
2/8/2017	50300	375.3	7.1E-02
3/7/2017	15400	355.8	2.1E-02
4/6/2017	21400	352.6	2.8E-02
5/5/2017	8200	353.8	1.1E-02
6/7/2017	24400	358.1	3.3E-02
7/11/2017	24000	346.0	3.1E-02
8/7/2017	26100	355.8	3.5E-02
9/14/2017	27000	368.0	3.7E-02
10/5/2017	12400	367.5	1.7E-02
11/30/2017	15800	375.2	2.2E-02
12/8/2017	22900	384.0	3.3E-02
1/8/2018	16100	390.1	2.4E-02
2/6/2018	10800	395.0	1.6E-02
3/8/2018	13800	381.9	2.0E-02
4/3/2018	17300	367.9	2.4E-02
5/8/2018	12700	349.6	1.7E-02
6/6/2018	11400	347.8	1.5E-02
7/9/2018	17400	345.2	2.2E-02
8/20/2018	9500	352.2	1.3E-02
9/4/2018	14000	336.8	1.8E-02
10/8/2018	15200	355.9	2.0E-02
11/5/2018	16800	194.6	1.2E-02
12/10/2018	32500	230.1	2.8E-02
6/7/2019	22700	188.5	1.6E-02
		Average Emission Rate[6] =	**2.7E-02**
		NR 406 Emission Threshold =	**5.7**

Notes:

VOCs = volatile organic compounds

SVE = soil vapor extraction

GETS = groundwater extraction and treatment system

CFM = cubic feet per minute

µg/m^3 = micrograms per cubic meters

lb/hr = pounds per hour

Updated by: B. Wachholz 7/9/2019

Checked by: A. Coxhead 7/16/2019

Footnotes:

1. The total VOC concentration noted between January 2016 and October 2018, represents results from the influent sample collected pre-treatment of the SVE and GETS operations. In October 2018, the SVE system was shutdown for evaluation and the total VOC concentration reported following is representative of the influent results from only the GETS operation. Samples were analyzed using EPA Method TO-15.
2. Total VOC concentrations noted were calculated based on analytes reported above and below the method reporting limit. For detected analytes, the reported concentrations were used. For all other analytes detected below the method reporting limit, half of the reporting limit was used.
3. The sampling frequency was adjusted in 2019 from monthly to semi-annually.
4. Between July 2015 and October 2018, the system flow rate represented the combined air flow rate from both the GETS and SVE system and was measured using flow meter FIT-201 which measures total flow from the activated carbon system. The SVE was shutdown for evaluation in October 2018 and remained off through June 2019.
5. Influent gas rates were calculated based on the product of the reported analytical concentration and the system flow rate during each monitoring event.
6. Average Emission Rate is an average based on samples collected between January 2016 and June 2019.

Table 10: Estimate of GAC Influent Gas Rate for Tetrachloroethene
Madison-Kipp Corporation
201 Waubesa Street
Madison, Wisconsin

Date[3]	Total PCE Concentration[1][2] µg/m^3	System Flow Rate[4] CFM	Gas Rate[5] lb/hr
1/18/2016	16000	389.4	2.3E-02
2/8/2016	7300	362.2	9.9E-03
3/7/2016	4700	364.1	6.4E-03
4/6/2016	28000	363.8	3.8E-02
5/4/2016	21000	361.0	2.8E-02
6/7/2016	25000	354.9	3.3E-02
7/20/2016	24000	359.6	3.2E-02
8/8/2016	26000	354.1	3.4E-02
9/9/2016	13000	346.9	1.7E-02
10/10/2016	7000	361.1	9.5E-03
11/7/2016	21000	357.8	2.8E-02
12/7/2016	12000	366.9	1.6E-02
1/17/2017	22000	376.7	3.1E-02
2/8/2017	36000	375.3	5.1E-02
3/7/2017	9300	355.8	1.2E-02
4/6/2017	15000	352.6	2.0E-02
5/5/2017	5500	353.8	7.3E-03
6/7/2017	17000	358.1	2.3E-02
7/11/2017	16000	346.0	2.1E-02
8/7/2017	18000	355.8	2.4E-02
9/14/2017	20000	368.0	2.8E-02
10/5/2017	9100	367.5	1.3E-02
11/30/2017	11000	375.2	1.5E-02
12/8/2017	16000	384.0	2.3E-02
1/8/2018	9800	390.1	1.4E-02
2/6/2018	5900	395.0	8.7E-03
3/8/2018	7400	381.9	1.1E-02
4/3/2018	11000	367.9	1.5E-02
5/8/2018	7600	349.6	1.0E-02
6/6/2018	6700	347.8	8.7E-03
7/9/2018	11000	345.2	1.4E-02
8/20/2018	3600	352.2	4.7E-03
9/4/2018	6000	336.8	7.6E-03
10/8/2018	8900	355.9	1.2E-02
11/5/2018	9300	194.6	6.8E-03
12/10/2018	24000	230.1	2.1E-02
6/7/2019	12000	188.5	8.5E-03
		Average Emission Rate[6] =	**1.9E-02**
		NR 445 Emission Threshold =	**35.4**

Notes:

Updated by: B. Wachholz 7/9/2019
Checked by: A. Coxhead 7/16/2019

PCE = Tetrachloroethene
SVE = soil vapor extraction
GETS = groundwater extraction and treatment system
CFM = cubic feet per minute
µg/m^3 = micrograms per cubic meters
lb/hr = pounds per hour

Footnotes:

1. The PCE concentration noted between January 2016 and October 2018, represents results from the influent sample collected pre-treatment of the SVE and GETS operations. In October 2018, the SVE system was shutdown for evaluation and the PCE concentration reported following is representative of the influent results from only the GETS operation. Samples were analyzed using EPA Method TO-15.
2. The PCE concentration reported in the influent sample was used for emission calculations. If the concentration was reported below the method reporting limit, half of the reporting limit was used for calculations.
3. The sampling frequency was adjusted in 2019 from monthly to semi-annually.
4. Between July 2015 and October 2018, the system flow rate represented the combined air flow rate from both the GETS and SVE system and was measured using flow meter FIT-201 which measures total flow from the activated carbon system. The SVE was shutdown for evaluation in October 2018 and remained off through June 2019.
5. Influent gas rates were calculated based on the product of the reported analytical concentration and the system flow rate during each monitoring event.
6. Average Emission Rate is an average based on samples collected between January 2016 and June 2019.

Table 11: Estimate of GAC Influent Gas Rate for Trichloroethene
Madison-Kipp Corporation
201 Waubesa Street
Madison, Wisconsin

Date[3]	TCE Concentration[1][2] µg/m^3	System Flow Rate[4] CFM	Gas Rate[5] lb/hr
1/18/2016	2000	389.4	2.9E-03
2/8/2016	710	362.2	9.6E-04
3/7/2016	420	364.1	5.7E-04
4/6/2016	2200	363.8	3.0E-03
5/4/2016	1800	361.0	2.4E-03
6/7/2016	2200	354.9	2.9E-03
7/20/2016	2400	359.6	3.2E-03
8/8/2016	3000	354.1	4.0E-03
9/9/2016	2100	346.9	2.7E-03
10/10/2016	720	361.1	9.7E-04
11/7/2016	2500	357.8	3.4E-03
12/7/2016	2400	366.9	3.3E-03
1/17/2017	4700	376.7	6.6E-03
2/8/2017	5700	375.3	8.0E-03
3/7/2017	2300	355.8	3.1E-03
4/6/2017	2300	352.6	3.0E-03
5/5/2017	1300	353.8	1.7E-03
6/7/2017	2800	358.1	3.8E-03
7/11/2017	2800	346.0	3.6E-03
8/7/2017	3100	355.8	4.1E-03
9/14/2017	2600	368.0	3.6E-03
10/5/2017	1400	367.5	1.9E-03
11/30/2017	2100	375.2	3.0E-03
12/8/2017	2900	384.0	4.2E-03
1/8/2018	2400	390.1	3.5E-03
2/6/2018	2000	395.0	3.0E-03
3/8/2018	2400	381.9	3.4E-03
4/3/2018	2500	367.9	3.4E-03
5/8/2018	2200	349.6	2.9E-03
6/6/2018	1800	347.8	2.3E-03
7/9/2018	2700	345.2	3.5E-03
8/20/2018	1800	352.2	2.4E-03
9/4/2018	2800	336.8	3.5E-03
10/8/2018	2200	355.9	2.9E-03
11/5/2018	2900	194.6	2.1E-03
12/10/2018	3300	230.1	2.8E-03
6/7/2019	3500	188.5	2.5E-03
		Average Emission Rate[6] =	**3.1E-03**
		NR 445 Emission Threshold =	**56.1**

Notes:

Updated by: B. Wachholz 7/9/2019
Checked by: A. Coxhead 7/16/2019

TCE = Trichloroethene
SVE = soil vapor extraction
GETS = groundwater extraction and treatment system
CFM = cubic feet per minute
µg/m^3 = micrograms per cubic meters
lb/hr = pounds per hour

Footnotes:

1. The TCE concentration noted between January 2016 and October 2018, represents results from the influent sample collected pre-treatment of the SVE and GETS operations. In October 2018, the SVE system was shutdown for evaluation and the TCE concentration reported following is representative of the influent results from only the GETS operation. Samples were analyzed using EPA Method TO-15.
2. The TCE concentration reported in the influent sample was used for emission calculations. If the concentration was reported below the method reporting limit, half of the reporting limit was used for calculations.
3. The sampling frequency was adjusted in 2019 from monthly to semi-annually.
4. Between July 2015 and October 2018, the system flow rate represented the combined air flow rate from both the GETS and SVE system and was measured using flow meter FIT-201 which measures total flow from the activated carbon system. The SVE was shutdown for evaluation in October 2018 and remained off through June 2019.
5. Influent gas rates were calculated based on the product of the reported analytical concentration and the system flow rate during each monitoring event.
6. Average Emission Rate is an average based on samples collected between January 2016 and June 2019.

Table 12: Estimate of GAC Influent Gas Rate for cis-1,2-Dichloroethene
Madison-Kipp Corporation
201 Waubesa Street
Madison, Wisconsin

Date[3]	cis-1,2-DCE Concentration[1][2] µg/m^3	System Flow Rate[4] CFM	Gas Rate[5] lb/hr
1/18/2016	2500	389.4	3.6E-03
2/8/2016	880	362.2	1.2E-03
3/7/2016	610	364.1	8.3E-04
4/6/2016	1900	363.8	2.6E-03
5/4/2016	2100	361.0	2.8E-03
6/7/2016	1800	354.9	2.4E-03
7/20/2016	2100	359.6	2.8E-03
8/8/2016	2400	354.1	3.2E-03
9/9/2016	1400	346.9	1.8E-03
10/10/2016	910	361.1	1.2E-03
11/7/2016	2300	357.8	3.1E-03
12/7/2016	2600	366.9	3.6E-03
1/17/2016	4500	376.7	6.3E-03
2/8/2017	4600	375.3	6.5E-03
3/7/2017	2800	355.8	3.7E-03
4/6/2017	2700	352.6	3.6E-03
5/5/2017	1000	353.8	1.3E-03
6/7/2017	2400	358.1	3.2E-03
7/11/2017	3400	346.0	4.4E-03
8/7/2017	2900	355.8	3.9E-03
9/14/2017	1700	368.0	2.3E-03
10/5/2017	1100	367.5	1.5E-03
11/30/2017	1700	375.2	2.4E-03
12/8/2017	2900	384.0	4.2E-03
1/8/2018	2800	390.1	4.1E-03
2/6/2018	2400	395.0	3.6E-03
3/8/2018	3100	381.9	4.4E-03
4/3/2018	2700	367.9	3.7E-03
5/8/2018	2400	349.6	3.1E-03
6/6/2018	2300	347.8	3.0E-03
7/9/2018	2500	345.2	3.2E-03
8/20/2018	3400	352.2	4.5E-03
9/4/2018	4600	336.8	5.8E-03
10/8/2018	2600	355.9	3.5E-03
11/5/2018	3600	194.6	2.6E-03
12/10/2018	3600	230.1	3.1E-03
6/7/2019	6000	188.5	4.2E-03
		Average Emission Rate[6] =	**2.7E-03**
		NR 445 Emission Threshold =	**166**

Notes:

Updated by: B. Wachholz 7/9/2019
Checked by: A. Coxhead 7/16/2019

cis-1,2-DCE = cis-1,2-dichloroethene
SVE = soil vapor extraction
GETS = groundwater extraction and treatment system
CFM = cubic feet per minute
µg/m^3 = micrograms per cubic meters
lb/hr = pounds per hour

Footnotes:

1. The cis-1,2-DCE concentration noted between January 2016 and October 2018, represents results from the influent sample collected pre-treatment of the SVE and GETS operations. In October 2018, the SVE system was shutdown for evaluation and the cis-1,2-DCE concentration reported following is representative of the influent results from only the GETS operation. Samples were analyzed using EPA Method TO-15.
2. The cis-1,2-DCE concentration reported in the influent sample was used for emission calculations. If the concentration was reported below the method reporting limit, half of the reporting limit was used for calculations.
3. The sampling frequency was adjusted in 2019 from monthly to semi-annually.
4. Between July 2015 and October 2018, the system flow rate represented the combined air flow rate from both the GETS and SVE system and was measured using flow meter FIT-201 which measures total flow from the activated carbon system. The SVE was shutdown for evaluation in October 2018 and remained off through June 2019.
5. Influent gas rates were calculated based on the product of the reported analytical concentration and the system flow rate during each monitoring event.
6. Average Emission Rate is an average based on samples collected between January 2016 and June 2019.

Table 13: Estimate of GAC Influent Gas Rate for Vinyl Chloride
Madison-Kipp Corporation
201 Waubesa Street
Madison, Wisconsin

Date	Vinyl Chloride Concentration[1][2] µg/m^3	System Flow Rate[3] CFM	Gas Rate[4] lb/hr	Gas Rate[4] lb/yr
1/18/2016	9.0	389.4	1.3E-05	1.1E-01
2/8/2016	4.7	362.2	6.4E-06	5.6E-02
3/7/2016	2.8	364.1	3.8E-06	3.3E-02
4/6/2016	20.0	363.8	2.7E-05	2.4E-01
5/4/2016	18.0	361	2.4E-05	2.1E-01
6/7/2016	20.5	354.9	2.7E-05	2.39E-01
7/20/2016	26.0	359.6	3.5E-05	3.07E-01
8/8/2016	20.5	354.1	2.7E-05	2.38E-01
9/9/2016	9.0	346.9	1.2E-05	1.02E-01
10/10/2016	3.4	361.1	4.6E-06	4.03E-02
11/7/2016	15.5	357.8	2.1E-05	1.82E-01
12/7/2016	7.0	366.9	9.6E-06	8.43E-02
1/17/2016	14.0	376.7	2.0E-05	1.73E-01
2/8/2017	30.0	375.3	4.2E-05	3.69E-01
3/7/2017	7.5	355.8	1.0E-05	8.76E-02
4/6/2017	10.5	352.6	1.4E-05	1.21E-01
5/5/2017	3.2	353.8	4.2E-06	3.71E-02
6/7/2017	16.5	358.1	2.2E-05	1.94E-01
7/11/2017	13.0	346.0	1.7E-05	1.48E-01
8/7/2017	16.0	355.8	2.1E-05	1.87E-01
9/14/2017	19.5	368.0	2.7E-05	2.35E-01
10/5/2017	6.0	367.5	8.3E-06	7.24E-02
11/30/2017	18.0	375.2	2.5E-05	2.22E-01
12/8/2017	26.0	384.0	3.7E-05	3.28E-01
1/8/2018	58.0	390.1	8.5E-05	7.42E-01
2/6/2018	26.0	395.0	3.8E-05	3.37E-01
3/8/2018	26.0	381.9	3.7E-05	3.26E-01
4/3/2018	22	367.9	3.0E-05	2.66E-01
5/8/2018	18	349.6	2.4E-05	2.06E-01
6/6/2018	21	347.8	2.7E-05	2.40E-01
7/9/2018	22	345.2	2.8E-05	2.49E-01
8/20/2018	19	352.2	2.5E-05	2.20E-01
9/4/2018	32	336.8	4.0E-05	3.54E-01
10/8/2018	37	355.9	4.9E-05	4.32E-01
11/5/2018	44	194.6	3.2E-05	2.81E-01
12/10/2018	31	230.1	2.7E-05	2.34E-01
6/7/2019	41	188.5	2.9E-05	2.54E-01
			Average Emission Rate[5] =	**1.4E-01**
			NR 445 Emission Threshold =	**830**

Notes:

Updated by: B. Wachholz 7/9/2019
Checked by: A. Coxhead 7/16/2019

VC = vinyl chloride
SVE = soil vapor extraction
GETS = groundwater extraction and treatment system
CFM = cubic feet per minute
µg/m^3 = micrograms per cubic meters
lb/hr = pounds per hour
lb/yr = pounds per year

Footnotes:

1. The VC concentration noted between January 2016 and October 2018, represents results from the influent sample collected pre-treatment of the SVE and GETS operations. In October 2018, the SVE system was shutdown for evaluation and the VC concentration reported following is representative of the influent results from only the GETS operation. Samples were analyzed using EPA Method TO-15.
2. The VC concentration reported in the influent sample was used for emission calculations. If the concentration was reported below the method reporting limit, half of the reporting limit was used for calculations.
3. The sampling frequency was adjusted in 2019 from monthly to semi-annually.
4. Between July 2015 and October 2018, the system flow rate represented the combined air flow rate from both the GETS and SVE system and was measured using flow meter FIT-201 which measures total flow from the activated carbon system. The SVE was shutdown for evaluation in October 2018 and remained off through June 2019.
5. Influent gas rates were calculated based on the product of the reported analytical concentration and the system flow rate during each monitoring event.
6. Average Emission Rate is an average based on samples collected between January 2016 and June 2019.

Table 14: Groundwater Monitoring Plan - 2019
Madison-Kipp Corporation
201 Waubesa Street
Madison, Wisconsin

Well/ Point ID	Bedrock Unit	Screened Interval (ft bgs)	April & October Gauging	April VOC Sampling	April PCB Sampling	October VOC Sampling	October PCB Sampling	Pump Type
GWE-1*	Lone Rock/ Wonewoc	55-175	x	x		x		NA
MW-1	Unconsolidated	14-24	x			x		Peristaltic
MW-2S	Unconsolidated	19-29	x					NA
MW-2D	Upper Lone Rock	39-44	x	x		x		Peristaltic
MW-3S	Unconsolidated	19-29	x			x		Peristaltic
MW-3D	Upper Lone Rock	48-53	x	x	x	x	x	Peristaltic
MW-3D2	Lower Lone Rock	76-81	x	x		x		Peristaltic
MW-3D3	Lower Wonewoc	214-224	x			x		GeoSub
MW-4S	Unconsolidated/ Upper Lone Rock	35-50	x		x		x	NA
MW-4D	Lower Lone Rock	65-70	x		x		x	NA
MW-4D2	Lower Lone Rock	91-96	x	x		x		Bladder
MW-5S	Upper Lone Rock	34-44	x		x	x	x	Peristaltic
MW-5D	Lower Lone Rock	75-80	x	x		x		Peristaltic
MW-5D2	Lower Wonewoc	166-171	x	x		x		Bladder
MW-5D3	Lower Wonewoc	225-235	x	x		x		GeoSub
MW-6S	Unconsolidated/ Upper Lone Rock	32-42	x		x	x	x	Bladder
MW-6D	Lower Lone Rock	66-71	x	x		x		Bladder
MW-7	Unconsolidated	25-35	x					NA
MW-8	Unconsolidated	24-34	x					NA
MW-9D	Upper Lone Rock	44-49	x			x		Peristaltic
MW-9D2	Lower Lone Rock	64-69	x	x		x		Peristaltic
MW-10S	Unconsolidated	11-21	x					NA
MW-11S	Unconsolidated	24-34	x		x		x	NA
MW-12S	Unconsolidated	3-13	x					NA
MW-17	Lower Wonewoc	160-170	x	x		x		Bladder
MW-18S	Unconsolidated	20-30	x					NA
MW-21D2	Upper/Lower Wonewoc	110-170	Well abandoned on October 24, 2018					
MW-22S	Unconsolidated	25-35	Well Abandoned on January 16, 2018					
MW-22D	Upper Lone Rock	45-50	Well Abandoned on January 16, 2018					
MW-23S	Unconsolidated	25-35	Well Abandoned on January 16, 2018					
MW-23D	Upper Lone Rock	45-50	Well Abandoned on January 16, 2018					
MW-24	Upper Lone Rock	30-40	x		x		x	NA
MW-25D	Upper Wonewoc	120-130	x			x		Bladder
MW-25D2	Upper Wonewoc	160-170	x	x		x		Bladder
MW-26S	Unconsolidated	6.8-16.8	x					NA
MW-27D	Upper Wonewoc	130-140	x	x		x		Bladder
MW-27D2	Lower Wonewoc	170-180	x			x		Bladder
MW-28	Unconsolidated	28-38	x		x	x	x	Peristaltic
MW-29S	Unconsolidated	24-34	x		x		x	Peristaltic
MW-29D	Upper Lone Rock	45-50	x		x		x	Bladder
MP-13 Port 1	Lower Wonewoc	163-167	x			x		Westbay
MP-13 Port 2	Upper Wonewoc	135-139	x			x		Westbay
MP-13 Port 3	Upper Wonewoc	121-125	x			x		Westbay
MP-13 Port 4	Upper Wonewoc	102-106	x			x		Westbay
MP-13 Port 5	Lower Lone Rock	81-85	x			x		Westbay
MP-13 Port 6	Lower Lone Rock	67-71	x			x		Westbay
MP-13 Port 7	Upper Lone Rock	44-48	x			x		Westbay
MP-14 Port 1	Lower Wonewoc	170-178	x			x		Westbay
MP-14 Port 2	Upper Wonewoc	135-140	x	x		x		Westbay
MP-14 Port 3	Upper Wonewoc	100-105	x			x		Westbay
MP-14 Port 4	Lower Lone Rock	70-75	x					NA

Table 14: Groundwater Monitoring Plan - 2019
Madison-Kipp Corporation
201 Waubesa Street
Madison, Wisconsin

Well/ Point ID	Bedrock Unit	Screened Interval (ft bgs)	April & October Gauging	April VOC Sampling	April PCB Sampling	October VOC Sampling	October PCB Sampling	Pump Type
MP-15 Port 1	Lower Wonewoc	177-187	x			x		Westbay
MP-15 Port 2	Lower Wonewoc	142-146	x			x		Westbay
MP-15 Port 3	Upper Wonewoc	120-125	x			x		Westbay
MP-15 Port 4	Upper Wonewoc	100-105	x			x		Westbay
MP-15 Port 5	Upper Wonewoc	88-92	x			x		Westbay
MP-16 Port 1	Lower Wonewoc	175-179	x			x		Westbay
MP-16 Port 2	Upper Wonewoc	140-144	x	x		x		Westbay
MP-16 Port 3	Upper Wonewoc	106-116	x			x		Westbay
MP-16 Port 4	Lower Lone Rock	80-84	x					NA
	Total Sample Points:		**55**	**15**	**10**	**40**	**10**	

Notes:

* = The GWE-1 influent sample results from the month of the sampling event will be used.

Update By: B. Wachholz 7/10/2019
Checked By: A. Stehn 7/25/2019

Table 15: Summary of Groundwater Elevations - April 8, 2019
Madison Kipp Corporation
201 Waubesa Street
Madison, Wisconsin

Well/Boring	Lithology	Screen Interval (feet bls)	Ground Elevation (feet amsl)	Top of Casing Elevation (feet amsl)	Date	Depth to Water (feet btoc)	Groundwater Elevation (feet amsl)
MW-01	Unconsolidated	14-24	861.71	861.08	4/8/2019	10.24	850.84
MW-02D	Upper Lone Rock	39-44	866.50	868.74	4/8/2019	18.75	849.99
MW-02S	Unconsolidated	19-29	866.34	868.94	4/8/2019	18.24	850.70
MW-03D	Upper Lone Rock	48-53	867.68	867.25	4/8/2019	18.70	848.55
MW-03D2	Lower Lone Rock	76-81	867.58	867.39	4/8/2019	20.30	847.09
MW-03D3	Lower Wonewoc/Upper Eau Claire	214-224	867.61	867.35	4/8/2019	21.71	845.64
MW-03S	Unconsolidated	19-29	867.87	867.41	4/8/2019	17.26	850.15
MW-04D	Lower Lone Rock	65-70	881.18	880.38	4/8/2019	30.20	850.18
MW-04D2	Lower Lone Rock	91-96	880.36	880.20	4/8/2019	30.48	849.72
MW-04S	Unconsolidated/ Upper Lone Rock	35-50	880.81	880.31	4/8/2019	27.81	852.50
MW-05D	Lower Lone Rock	75-80	872.58	872.10	4/8/2019	23.07	849.03
MW-05D2	Lower Wonewoc	165.8-170.8	872.59	872.20	4/8/2019	26.34	845.86
MW-05D3	Lower Wonewoc/Upper Eau Claire	225-235	872.34	871.89	4/8/2019	26.02	845.87
MW-05S	Upper Lone Rock	34-44	872.56	872.14	4/8/2019	22.32	849.82
MW-06D	Lower Lone Rock	65.5-70.5	877.11	876.69	4/8/2019	27.19	849.50
MW-06S	Unconsolidated/ Upper Lone Rock	31.4-41.4	877.20	876.69	4/8/2019	26.14	850.55
MW-07	Unconsolidated	25-35	870.91	870.42	4/8/2019	20.24	850.18
MW-08	Unconsolidated	24-34	867.69	866.78	4/8/2019	16.69	850.09
MW-09D	Upper Lone Rock	44-49	855.80	855.47	4/8/2019	7.53	847.94
MW-09D2	Lower Lone Rock	64-69	855.89	855.48	4/8/2019	7.71	847.77
MW-10S	Unconsolidated	11-21	864.88	864.42	4/8/2019	13.67	850.75
MW-11S	Unconsolidated	24-34	874.10	873.47	4/8/2019	23.56	849.91
MW-12S	Unconsolidated	3-13	859.78	859.41	4/8/2019	6.65	852.76
MW-17	Upper Wonewoc	160-170	877.26	876.65	4/8/2019	30.69	845.96
MW-18S	Unconsolidated	20-30	867.89	867.24	4/8/2019	16.93	850.31
MW-19D	Lower Lone Rock	60-90	867.44	866.75	4/8/2019	19.55	847.20
MW-19D2	Upper Wonewoc	110-140	867.44	866.71	4/8/2019	21.46	845.25
MW-20D	Lower Lone Rock	60-90	867.36	866.96	4/8/2019	19.25	847.71
MW-20D2	Lower Lone Rock	110-140	867.36	867.04	4/8/2019	21.70	845.34
MW-21D	Lower Lone Rock	60-90	867.77	867.49	4/8/2019	19.43	848.06
MW-21D2	Upper Wonewoc	110-170	867.77	867.46	Abandoned		
MW-24	Upper Lone Rock	30-40	876.66	876.41	4/8/2019	26.19	850.22

Table 15: Summary of Groundwater Elevations - April 8, 2019
Madison Kipp Corporation
201 Waubesa Street
Madison, Wisconsin

Well/Boring	Lithology	Screen Interval (feet bls)	Ground Elevation (feet amsl)	Top of Casing Elevation (feet amsl)	Date	Depth to Water (feet btoc)	Groundwater Elevation (feet amsl)
MW-25D	Upper Wonewoc	120-130	886.97	886.69	4/8/2019	40.69	846.00
MW-25D2	Upper Wonewoc	160-170	886.97	886.68	4/8/2019	41.02	845.66
MW-26S	Unconsolidated	6.85-16.85	857.51	856.61	4/8/2019	5.81	850.80
MW-27D	Lower Wonewoc	130-140	862.96	862.65	4/8/2019	15.87	846.78
MW-27D2	Lower Wonewoc	170-180	862.96	862.59	4/8/2019	15.87	846.72
MW-28	Lower Lone Rock	28-38	874.30	874.05	4/8/2019	23.82	850.23
MW-29D	Upper Lone Rock	45-50	875.86	877.61	4/8/2019	27.92	849.69
MW-29S	Unconsolidated	24-34	875.97	877.80	4/8/2019	24.20	853.60
MP-13	Upper Lone Rock	44-48	864.49	863.99	4/8/2019	14.94	849.05
MP-13	Lower Lone Rock	67-71	864.49	863.99	4/8/2019	16.78	847.21
MP-13	Lower Lone Rock	81-85	864.49	863.99	4/8/2019	17.36	846.63
MP-13	Upper Wonewoc	102-106	864.49	863.99	4/8/2019	18.24	845.75
MP-13	Upper Wonewoc	121-125	864.49	863.99	4/8/2019	18.28	845.71
MP-13	Lower Wonewoc	135-139	864.49	863.99	4/8/2019	18.35	845.64
MP-13	Lower Wonewoc	163-167	864.49	863.99	4/8/2019	18.23	845.76
MP-14	Lower Lone Rock	70-75	866.88	867.28	4/8/2019	16.21	851.07
MP-14	Upper Wonewoc	100-105	866.88	867.28	4/8/2019	19.46	847.82
MP-14	Lower Wonewoc	135-140	866.88	867.28	4/8/2019	19.97	847.31
MP-14	Lower Wonewoc	170-178	866.88	867.28	4/8/2019	20.31	846.97
MP-15	Upper Wonewoc	88-92	855.98	855.50	4/8/2019	8.42	847.08
MP-15	Upper Wonewoc	100-105	855.98	855.50	4/8/2019	8.41	847.09
MP-15	Lower Wonewoc	120-125	855.98	855.50	4/8/2019	8.45	847.05
MP-15	Lower Wonewoc	142-146	855.98	855.50	4/8/2019	8.64	846.86
MP-15	Lower Wonewoc	177-187	855.98	855.50	4/8/2019	8.73	846.77
MP-16	Lower Lone Rock	80-84	870.68	870.17	4/8/2019	21.15	849.02
MP-16	Upper Wonewoc	106-116	870.68	870.17	4/8/2019	23.49	846.68
MP-16	Lower Wonewoc	140-144	870.68	870.17	4/8/2019	23.72	846.45
MP-16	Lower Wonewoc	175-179	870.68	870.17	4/8/2019	24.09	846.08

Created By: A. Stehn 7/25/2019
Checked By: W. Braga 7/25/2019

Table 16: Groundwater Analytical Results Summary for October 2018 and April 2019
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MW-1	MW-2S	MW-2D	MW-2D[3]	MW-2D	MW-3S	MW-3D	MW-3D	MW-3D[3]	MW-3D2	MW-3D2[3]	MW-3D2	MW-3D3	MW-4S	MW-4S	MW-4D	MW-4D	MW-4D[3]	MW-4D2	MW-4D2
Screen Interval (feet bgs)	Preventive	Enforcement	14 - 24 ft	19 - 29 ft	39 - 44 ft	39 - 44 ft	39 - 44 ft	19 - 29 ft	48 - 53 ft	48 - 53 ft	48 - 53 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	214 - 224 ft	35 - 50 ft	35 - 50 ft	65 - 70 ft	65 - 70 ft	65 - 70 ft	91 - 96 ft	91 - 96 ft
Sample Date	Action Limit	Standard	10/16/2018	10/16/2018	10/16/2018	10/16/2018	04/12/2019	10/12/2018	10/12/2018	04/09/2019	04/09/2019	10/12/2018	10/12/2018	04/09/2019	10/12/2018	10/11/2018	04/11/2019	10/11/2018	04/11/2019	04/11/2019	10/11/2018	04/11/2019
VOCs																						
1,1,1,2-Tetrachloroethane	7	70	< 0.11	NA	< 0.11	< 0.11	< 0.27	< 5.5	< 0.11	< 0.54	< 1.1	< 0.11	< 5.5	< 0.54	< 0.11	NA	NA	NA	NA	NA	< 0.11	< 0.27
1,1,1-Trichloroethane	40	200	< 0.10	NA	< 0.10	< 0.10	< 0.24	< 5.0	< 0.10	< 0.49	< 0.98	< 0.10	< 5.0	< 0.49	< 0.10	NA	NA	NA	NA	NA	< 0.10	< 0.24
1,1,2-Trichloroethane	0.5	5	< 0.10	NA	< 0.10	< 0.10	< 0.55	< 5.0	< 0.10	< 1.1	< 2.2	< 0.10	< 5.0	< 1.1	< 0.10	NA	NA	NA	NA	NA	< 0.10	< 0.55
1,1-Dichloroethene	0.7	7	< 0.14	NA	< 0.14	< 0.14	< 0.24	< 7.0	< 0.14	< 0.49	< 0.98	< 0.14	< 7.0	< 0.49	< 0.14	NA	NA	NA	NA	NA	< 0.14	< 0.24
1,2,4-Trimethylbenzene	96	480	< 0.060	NA	< 0.060	< 0.060	< 0.84	< 3.0	< 0.060	< 1.7	< 3.4	< 0.060	< 3.0	< 1.7	< 0.060 J-	NA	NA	NA	NA	NA	< 0.060	< 0.84
1,2-Dibromoethane	0.005	0.05	< 0.13	NA	< 0.13	< 0.13	< 0.83	< 6.5	< 0.13	< 1.7	< 3.3	< 0.13	< 6.5	< 1.7	< 0.13	NA	NA	NA	NA	NA	< 0.13	< 0.83
1,2-Dichlorobenzene	60	600	< 0.076	NA	< 0.076	< 0.076	< 0.71	< 3.8	< 0.076	< 1.4	< 2.8	< 0.076	< 3.8	< 1.4	< 0.076	NA	NA	NA	NA	NA	< 0.076	< 0.71
1,2-Dichloropropane	0.5	5	< 0.10	NA	< 0.10	< 0.10	< 0.28	< 5.0	< 0.10	< 0.57	< 1.1	< 0.10	< 5.0	< 0.57	< 0.10	NA	NA	NA	NA	NA	< 0.10	< 0.28
1,2,3-Trichlorobenzene	NE	NE	< 0.045	NA	< 0.045	< 0.045	< 0.63	< 2.3	< 0.045	< 1.3	< 2.5	< 0.045	< 2.3	< 1.3	< 0.045	NA	NA	NA	NA	NA	< 0.045	< 0.63
1,2,4-Trichlorobenzene	14	70	< 0.077	NA	< 0.077	< 0.077	< 0.95	< 3.9	< 0.077	< 1.9	< 3.8	< 0.077	< 3.9	< 1.9	< 0.077	NA	NA	NA	NA	NA	< 0.077	< 0.95
1,3,5-Trimethylbenzene	96	480	< 0.075 J-	NA	< 0.075	< 0.075	< 0.87	< 3.8	< 0.075	< 1.7	< 3.5	< 0.075	< 3.8	< 1.7	< 0.075 J-	NA	NA	NA	NA	NA	< 0.075	< 0.87
2-Butanone	800	4000	< 3.0 J	NA	< 3.0	< 3.0	< 2.9	< 150	< 3.0	< 5.9	< 11.7	< 3.0	< 150	< 5.9	< 3.0	NA	NA	NA	NA	NA	< 3.0	< 2.9
2-Hexanone	NE	NE	< 0.95 J	NA	< 0.95	< 0.95	< 2.5	< 48	< 0.95	< 4.9	< 9.8	< 0.95	< 48	< 4.9	< 0.95	NA	NA	NA	NA	NA	< 0.95	< 2.5
4-Methyl-2-pentanone	50	500	< 0.77 J	NA	< 0.77	< 0.77	< 1.5	< 39	< 0.77	< 3.1	< 6.1	< 0.77	< 39	< 3.1	< 0.77	NA	NA	NA	NA	NA	< 0.77	< 1.5
Acetone	1800	9000	< 3.4 J	NA	< 3.4	< 3.4	< 2.7	< 170	< 3.4	< 5.5	< 11.0	< 3.4	< 170	< 5.5	< 3.4	NA	NA	NA	NA	NA	< 3.4	< 2.7
Benzene	0.5	5	< 0.089	NA	< 0.089	< 0.089	< 0.25	< 4.5	0.15 J	< 0.49	< 0.99	< 0.089	< 4.5	< 0.49	< 0.089	NA	NA	NA	NA	NA	< 0.089	< 0.25
Bromodichloromethane	0.06	0.6	< 0.077	NA	< 0.077	< 0.077	< 0.36	< 3.9	< 0.077	< 0.73	< 1.5	< 0.077	< 3.9	< 0.73	< 0.077	NA	NA	NA	NA	NA	< 0.077	< 0.36
Bromoform	0.44	4.4	< 0.088	NA	< 0.088	< 0.088	< 4.0	< 4.4	< 0.088	< 7.9	< 15.9	< 0.088	< 4.4	< 7.9	< 0.088	NA	NA	NA	NA	NA	< 0.088	< 4.0
Bromomethane	1	10	< 0.59	NA	< 0.59	< 0.59	< 0.97	< 30	< 0.59	< 1.9	< 3.9	< 0.59	< 30	< 1.9	< 0.59	NA	NA	NA	NA	NA	< 1.1 U	< 0.97
Carbon disulfide	200	1000	< 0.053	NA	< 0.053	< 0.053	< 0.37	< 2.7	< 0.053	< 0.75	< 1.5	< 0.053	< 2.7	< 0.75	< 0.053	NA	NA	NA	NA	NA	< 0.053	< 0.37
Carbon tetrachloride	0.5	5	< 0.038	NA	< 0.038	< 0.038	< 0.17	< 1.9	< 0.038	< 0.33	< 0.66	< 0.038	< 1.9	< 0.33	< 0.038	NA	NA	NA	NA	NA	< 0.038	< 0.17
Chloroform	0.6	6	< 0.062	NA	< 0.062	< 0.062	< 1.3	< 3.1	< 0.31 U	< 2.5	< 5.1	< 0.18 U	< 3.1	< 2.5	< 0.062	NA	NA	NA	NA	NA	< 0.062	< 1.3
Chloromethane	3	30	< 0.25 U	NA	< 0.31 U	< 0.25 U	< 2.2	< 17 U	< 0.35 U	< 4.4	< 8.8	< 0.41 U	< 17 U	< 4.4	< 0.35 U	NA	NA	NA	NA	NA	< 0.67 U	< 2.2
cis-1,2-Dichloroethene	7	70	4.0	NA	< 0.11	< 0.11	< 0.27	***21 J***	***39***	***52.9***	***43.4***	***30***	***27***	***22.6***	< 0.11	NA	NA	NA	NA	NA	< 0.11	< 0.27
Dichlorodifluoromethane	200	1000	< 0.11	NA	< 0.11	< 0.11	< 0.50	< 5.5	< 0.11	< 1.0	< 2.0	1.0	< 5.5	1.0 J	< 0.11	NA	NA	NA	NA	NA	< 0.11	< 0.50
Ethylbenzene	140	700	< 0.054	NA	< 0.054	< 0.054	< 0.22	< 2.7	< 0.054	< 0.44	< 0.87	< 0.054	< 2.7	< 0.44	< 0.054	NA	NA	NA	NA	NA	< 0.054	< 0.22
Isopropylbenzene	NE	NE	< 0.081 J-	NA	< 0.081	< 0.081	< 0.39	< 4.1	< 0.081	< 0.79	< 1.6	< 0.081	< 4.1	< 0.79	< 0.081	NA	NA	NA	NA	NA	< 0.081	< 0.39
m,p-Xylene	400	2000	< 0.057	NA	< 0.057	< 0.057	< 0.47	< 2.9	< 0.057	< 0.93	< 1.9	< 0.057	< 2.9	< 0.93	< 0.057	NA	NA	NA	NA	NA	< 0.057	< 0.47
Methyl tert-butyl ether	12	60	< 0.14	NA	< 0.14	< 0.14	< 1.2	< 7.0	< 0.14	< 2.5	< 5.0	< 0.14	< 7.0	< 2.5	< 0.14	NA	NA	NA	NA	NA	< 0.14	< 1.2
Methylene chloride	0.5	5	< 0.14	NA	< 0.27 U	< 0.27 U	< 0.58	< 7.0	< 0.25 U	< 1.2	< 2.3	< 0.21 U	< 7.0	< 1.2	< 0.24 U	NA	NA	NA	NA	NA	< 0.35 U	< 0.58
Naphthalene	10	100	< 0.088	NA	< 0.088	< 0.088	< 1.2	< 4.4	< 0.088	< 2.4	< 4.7	< 0.088	< 4.4	< 2.4	< 0.088	NA	NA	NA	NA	NA	< 0.088	< 1.2
n-Butylbenzene	NE	NE	< 0.14	NA	< 0.14	< 0.14	< 0.71	< 7.0	< 0.14	< 1.4	< 2.8	< 0.14	< 7.0	< 1.4	< 0.14	NA	NA	NA	NA	NA	< 0.14	< 0.71
n-Hexane	120	600	< 0.21	NA	< 0.21	< 0.21	< 1.7	< 11	< 0.21	< 3.4	< 6.8	< 0.21	< 11	< 3.4	< 0.21	NA	NA	NA	NA	NA	< 0.21	< 1.7
n-Propylbenzene	NE	NE	< 0.10	NA	< 0.10	< 0.10	< 0.81	< 5.0	< 0.10	< 1.6	< 3.2	< 0.10	< 5.0	< 1.6	< 0.10	NA	NA	NA	NA	NA	< 0.10	< 0.81
o-Xylene	400	2000	< 0.058	NA	< 0.058	< 0.058	< 0.26	< 2.9	< 0.058	< 0.52	< 1.0	< 0.058	< 2.9	< 0.52	< 0.058	NA	NA	NA	NA	NA	< 0.058	< 0.26
p-Isopropyltoluene	NE	NE	< 0.085 J-	NA	< 0.085	< 0.085	< 0.80	< 4.3	< 0.085	< 1.6	< 3.2	< 0.085	< 4.3	< 1.6	< 0.085 J-	NA	NA	NA	NA	NA	< 0.085	< 0.80
sec-Butylbenzene	NE	NE	< 0.13	NA	< 0.13	< 0.13	< 0.85	< 6.5	< 0.13	< 1.7	< 3.4	< 0.13	< 6.5	< 1.7	< 0.13	NA	NA	NA	NA	NA	< 0.13	< 0.85
Styrene	10	100	< 0.065	NA	< 0.065	< 0.065	< 0.47	< 3.3	< 0.065	< 0.93	< 1.9	< 0.065	< 3.3	< 0.93	< 0.065	NA	NA	NA	NA	NA	< 0.065	< 0.47
tert-Butylbenzene	NE	NE	< 0.12	NA	< 0.12	< 0.12	< 0.30	< 6.0	< 0.12	< 0.61	< 1.2	< 0.12	< 6.0	< 0.61	< 0.12	NA	NA	NA	NA	NA	< 0.12	< 0.30
Tetrachloroethene	0.5	5	***3.8***	NA	***20***	***18***	***17.1***	***1100***	***260***	***333***	***263***	***490***	***480***	***300***	***0.5***	NA	NA	NA	NA	NA	0.24 J	***1.1 J***
Toluene	160	800	< 0.053	NA	< 0.053	< 0.053	< 0.17	< 2.7	0.060 J	< 0.34	< 0.69	< 0.053	< 2.7	< 0.34	< 0.053	NA	NA	NA	NA	NA	< 0.053	< 0.17
trans-1,2-Dichloroethene	20	100	0.13 J	NA	< 0.11	< 0.11	< 1.1	< 5.5	0.90	< 2.2	< 4.4	0.48 J	< 5.5	< 2.2	< 0.11	NA	NA	NA	NA	NA	< 0.11	< 1.1
Trichloroethene	0.5	5	***2.2***	NA	< 0.062	< 0.062	< 0.26	***73***	***32***	***41***	***34***	***39***	***38***	***19.8***	< 0.062	NA	NA	NA	NA	NA	< 0.062	< 0.26
Trichlorofluoromethane	698	3490	< 0.13	NA	< 0.13	< 0.13	< 0.21	< 6.5	< 0.13	< 0.43	< 0.86	< 0.13	< 6.5	< 0.43	< 0.13	NA	NA	NA	NA	NA	< 0.13	< 0.21
Vinyl chloride	0.02	0.2	< 0.16	NA	< 0.16	< 0.16	< 0.17	< 8.0	< 0.16	< 0.35	< 0.70	< 0.16	< 8.0	< 0.35	< 0.16	NA	NA	NA	NA	NA	< 0.16	< 0.17
Xylenes, Total	400	2000	< 0.12	NA	< 0.12	< 0.12	< 1.5	< 5.8	< 0.12	< 3.0	< 6.0	< 0.12	< 5.8	< 3.0	< 0.12	NA	NA	NA	NA	NA	< 0.12	< 1.5
Total PCBs																						
Aroclor-1016	0.003	0.03	NA	< 0.0072	< 0.0072	< 0.0072	NA	NA	< 0.0072	< 0.0072	< 0.0072	NA	NA	NA	NA	< 0.0072	< 0.0072	< 0.0072	< 0.0072	< 0.0072	NA	NA
Aroclor-1232	0.003	0.03	NA	< 0.0042	< 0.0042	< 0.0042	NA	NA	< 0.0042	< 0.0042	< 0.0042	NA	NA	NA	NA	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	NA	NA
Aroclor-1242	0.003	0.03	NA	< 0.013	< 0.013	< 0.013	NA	NA	< 0.013	< 0.013	< 0.013	NA	NA	NA	NA	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	NA	NA
Aroclor-1248	0.003	0.03	NA	< 0.011	< 0.011	< 0.011	NA	NA	< 0.011	< 0.011	< 0.011	NA	NA	NA	NA	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	NA	NA
Total Detected PCBs	0.003	0.03	NA	ND	ND	ND	NA	NA	ND	ND	ND	NA	NA	NA	NA	ND	ND	ND	ND	ND	NA	NA
Dissolved PCBs																						
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																						
Total Dissolved Solids (mg/L)	NE	NE	NA	376	1220	1220	NA	NA	1090	2060	2020	NA	NA	NA	NA	1750	2260	600	894	820	NA	NA
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	< 1.4	< 1.4	< 1.4	NA	NA	9.0	4.4	4.6	NA	NA	NA	NA	< 2.0	1.6 J	< 2.0	1.4 J	< 0.95	NA	NA

Notes on Page 5.

Table 16: Groundwater Analytical Results Summary for October 2018 and April 2019
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MW-5S	MW-5S	MW-5D	MW-5D	MW-5D2	MW-5D2	MW-5D3	MW-5D3	MW-6S	MW-6S[3]	MW-6S	MW-6D	MW-6D	MW-6D[3]	MW-9D	MW-9D2	MW-9D2[3]	MW-9D2
Screen Interval (feet bgs)	Preventive	Enforcement	34 - 44 ft	34 - 44 ft	75 - 80 ft	75 - 80 ft	165.8 - 170.8 ft	165.8 - 170.8 ft	225 - 235 ft	225 - 235 ft	31.4 - 41.4 ft	31.4 - 41.4 ft	31.4 - 41.4 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	44 - 49 ft	64 - 69 ft	64 - 69 ft	64 - 69 ft
Sample Date	Action Limit	Standard	10/12/2018	04/10/2019	10/12/2018	04/08/2019	10/12/2018	04/10/2019	10/11/2018	04/10/2019	10/15/2018	10/15/2018	04/12/2019	10/15/2018	04/11/2019	04/11/2019	10/11/2018	10/11/2018	10/11/2018	04/09/2019
VOCs																				
1,1,1,2-Tetrachloroethane	7	70	< 0.22	NA	< 0.55	< 5.4	< 5.5	< 5.4	< 0.11	< 0.27	< 0.11	< 0.11	NA	< 5.5	< 6.7	< 6.7	< 0.11	< 0.11	< 0.22	< 0.54
1,1,1-Trichloroethane	40	200	< 0.20	NA	< 0.50	< 4.9	< 5.0	< 4.9	< 0.10	< 0.24	< 0.10	< 0.10	NA	< 5.0	< 6.1	< 6.1	< 0.10	< 0.10	< 0.20	< 0.49
1,1,2-Trichloroethane	0.5	5	< 0.20	NA	< 0.50	< 11.0	< 5.0	< 11.0	< 0.10	< 0.55	< 0.10	< 0.10	NA	< 5.0	< 13.8	< 13.8	< 0.10	< 0.10	< 0.20	< 1.1
1,1-Dichloroethene	0.7	7	< 0.28	NA	< 0.70	< 4.9	< 7.0	< 4.9	< 0.14	< 0.24	< 0.14	< 0.14	NA	< 7.0	< 6.1	< 6.1	< 0.14	< 0.14	< 0.28	< 0.49
1,2,4-Trimethylbenzene	96	480	< 0.12	NA	< 0.30	< 16.8	< 3.0	< 16.8	< 0.060	< 0.84	< 0.060	< 0.060	NA	90	57.0 J	56.3 J	< 0.060	< 0.060	< 0.12	< 1.7
1,2-Dibromoethane	0.005	0.05	< 0.26	NA	< 0.65	< 16.6	< 6.5	< 16.6	< 0.13	< 0.83	< 0.13	< 0.13	NA	< 6.5	< 20.7	< 20.7	< 0.13	< 0.13	< 0.26	< 1.7
1,2-Dichlorobenzene	60	600	< 0.15	NA	< 0.38	< 14.1	< 3.8	< 14.1	< 0.076	< 0.71	< 0.076	< 0.076	NA	< 3.8	< 17.6	< 17.6	< 0.076	< 0.076	< 0.15	< 1.4
1,2-Dichloropropane	0.5	5	< 0.20	NA	< 0.50	< 5.7	< 5.0	< 5.7	< 0.10	< 0.28	< 0.10	< 0.10	NA	< 5.0	< 7.1	< 7.1	< 0.10	< 0.10	< 0.20	< 0.57
1,2,3-Trichlorobenzene	NE	NE	< 0.090	NA	< 0.23	< 12.5	< 2.3	< 12.5	< 0.045	< 0.63	< 0.045	< 0.045	NA	< 2.3	< 15.6	< 15.6	< 0.045	< 0.045	< 0.090	< 1.3
1,2,4-Trichlorobenzene	14	70	< 0.15	NA	< 0.39	< 19.0	< 3.9	< 19.0	< 0.077	< 0.95	< 0.077	< 0.077	NA	< 3.9	< 23.8	< 23.8	< 0.077	< 0.077	< 0.15	< 1.9
1,3,5-Trimethylbenzene	96	480	< 0.15	NA	< 0.38	< 17.5	< 3.8	< 17.5	< 0.075	< 0.87	< 0.075	< 0.075	NA	< 3.8	< 21.8	< 21.8	< 0.075	< 0.075	< 0.15	< 1.7
2-Butanone	800	4000	< 6.0	NA	< 15	< 58.7	< 150	< 58.7	< 3.0	< 2.9	< 3.0	< 3.0	NA	< 150 J	< 73.4	< 73.4	< 3.0	< 3.0	< 6.0	< 5.9
2-Hexanone	NE	NE	< 1.9	NA	< 4.8	< 49.1	< 48	< 49.1	< 0.95	< 2.5	< 0.95	< 0.95	NA	< 48	< 61.4	< 61.4	< 0.95	< 0.95	< 1.9	< 4.9
4-Methyl-2-pentanone	50	500	< 1.5	NA	< 3.9	< 30.6	< 39	< 30.6	< 0.77	< 1.5	< 0.77	< 0.77	NA	< 39	< 38.3	< 38.3	< 0.77	< 0.77	< 1.5	< 3.1
Acetone	1800	9000	< 6.8	NA	< 17	< 54.8	< 170	< 54.8	< 4.6 U	< 2.7	< 3.4	< 13 U	NA	< 170	119 J	197 J	< 10 U	< 6.7 U	< 6.8	< 5.5
Benzene	0.5	5	< 0.18	NA	< 0.45	< 4.9	< 4.5	< 4.9	< 0.089	< 0.25	0.10 J	< 0.089	NA	***1500***	***1210***	***1280***	< 0.089	0.14 J	< 0.18	< 0.49
Bromodichloromethane	0.06	0.6	< 0.15	NA	< 0.39	< 7.3	< 3.9	< 7.3	< 0.077	< 0.36	< 0.077	< 0.077	NA	< 3.9	< 9.1	< 9.1	< 0.077	< 0.077	< 0.15	< 0.73
Bromoform	0.44	4.4	< 0.18	NA	< 0.44	< 79.4	< 4.4	< 79.4	< 0.088	< 4.0	< 0.088	< 0.088	NA	< 4.4	< 99.3	< 99.3	< 0.088	< 0.088	< 0.18	< 7.9
Bromomethane	1	10	< 1.2	NA	< 3.0	< 19.4	< 30	< 19.4	< 0.59	< 0.97	< 0.59	< 0.59	NA	< 30	< 24.3	< 24.3	< 0.59	< 0.59	< 1.2	< 1.9
Carbon disulfide	200	1000	< 0.11	NA	< 0.27	< 7.5	< 2.7	< 7.5	< 0.053	< 0.37	< 0.053	< 0.053	NA	< 2.7	< 9.4	< 9.4	< 0.053	< 0.053	< 0.11	< 0.75
Carbon tetrachloride	0.5	5	< 0.076	NA	< 0.19	< 3.3	< 1.9	< 3.3	< 0.038	< 0.17	< 0.038	< 0.038	NA	< 1.9	< 4.1	< 4.1	< 0.038	< 0.038	< 0.076	< 0.33
Chloroform	0.6	6	< 0.12	NA	< 0.31	< 25.5	< 3.1	< 25.5	< 0.062	< 1.3	< 0.062	< 0.062	NA	< 3.1	< 31.8	< 31.8	< 0.062	< 0.062	< 0.12	< 2.5
Chloromethane	3	30	< 0.76 U	NA	< 1.7 U	< 43.8	< 15 U	< 43.8	< 0.56 U	< 2.2	< 0.50 U	< 0.50 U	NA	< 14 U	< 54.7	< 54.7	< 0.57 U	< 0.58 U	< 0.32	< 4.4
cis-1,2-Dichloroethene	7	70	< 0.22	NA	***12***	***149***	***10 J***	***15.0 J***	< 0.11	< 0.27	< 0.11	< 0.11	NA	***8.5 J***	< 6.8	< 6.8	< 0.11	***53***	***54***	***64.1***
Dichlorodifluoromethane	200	1000	< 0.22	NA	< 0.55	< 10	< 5.5	< 10	< 0.11	< 0.50	< 0.11	< 0.11	NA	< 5.5	< 12.5	< 12.5	0.13 J	0.62	0.78 J	< 1.0
Ethylbenzene	140	700	< 0.11	NA	< 0.27	< 4.4	< 2.7	< 4.4	< 0.054	< 0.22	< 0.054	< 0.054	NA	34	32.0	38.1	< 0.054	< 0.054	< 0.11	< 0.44
Isopropylbenzene	NE	NE	< 0.16	NA	< 0.41	< 7.9	< 4.1	< 7.9	< 0.081	< 0.39	< 0.081	< 0.081	NA	17 J	15.3 J	16.8 J	< 0.081	< 0.081	< 0.16	< 0.79
m,p-Xylene	400	2000	< 0.11	NA	< 0.29	< 9.3	< 2.9	< 9.3	< 0.057	< 0.47	< 0.057	< 0.057	NA	53	44.2 J	43.4 J	< 0.057	< 0.057	< 0.11	< 0.93
Methyl tert-butyl ether	12	60	< 0.28	NA	< 0.70	< 24.9	< 7.0	< 24.9	< 0.14	< 1.2	< 0.14	< 0.14	NA	< 7.0 J	< 31.1	< 31.1	< 0.14	***54***	***54***	***30***
Methylene chloride	0.5	5	< 0.38 U	NA	< 0.70	< 11.6	< 7.0	< 11.6	< 0.29 U	< 0.58	< 0.29 U	< 0.35 U	NA	< 7.0 J+	< 14.5	< 14.5	< 0.56 U	< 0.29 U	< 0.28	< 1.2
Naphthalene	10	100	< 0.18	NA	< 0.44	< 23.5	< 4.4	< 23.5	< 0.088	< 1.2	< 0.088	< 0.088	NA	< 41 U	< 29.4	< 29.4	< 0.13 U	< 0.088	< 0.18	< 2.4
n-Butylbenzene	NE	NE	< 0.28	NA	< 0.70	< 14.2	< 7.0	< 14.2	< 0.14	< 0.71	< 0.14	< 0.14	NA	< 7.0	< 17.7	< 17.7	< 0.14	< 0.14	< 0.28	< 1.4
n-Hexane	120	600	< 0.42	NA	< 1.1	< 34.2	< 11	< 34.2	< 0.21	< 1.7	< 0.21	< 0.21	NA	< 11	< 42.7	< 42.7	< 0.21	< 0.21	< 0.42	< 3.4
n-Propylbenzene	NE	NE	< 0.20	NA	< 0.50	< 16.2	< 5.0	< 16.2	< 0.10	< 0.81	< 0.10	< 0.10	NA	16 J	< 20.3	< 20.3	< 0.10	< 0.10	< 0.20	< 1.6
o-Xylene	400	2000	< 0.12	NA	< 0.29	< 5.2	< 2.9	< 5.2	< 0.058	< 0.26	< 0.058	< 0.058	NA	3.0 J	< 6.5	< 6.5	< 0.058	< 0.058	< 0.12	< 0.52
p-Isopropyltoluene	NE	NE	< 0.17	NA	< 0.43	< 16.0	< 4.3	< 16.0	< 0.085	< 0.80	< 0.085	< 0.085	NA	< 4.3	< 20.0	< 20.0	< 0.085	< 0.085	< 0.17	< 1.6
sec-Butylbenzene	NE	NE	< 0.26	NA	< 0.65	< 17.0	< 6.5	< 17.0	< 0.13	< 0.85	< 0.13	< 0.13	NA	< 6.5	< 21.2	< 21.2	< 0.13	< 0.13	< 0.26	< 1.7
Styrene	10	100	< 0.13	NA	< 0.33	< 9.3	< 3.3	< 9.3	< 0.065	< 0.47	< 0.065	< 0.065	NA	< 3.3	< 11.6	< 11.6	< 0.065	< 0.065	< 0.13	< 0.93
tert-Butylbenzene	NE	NE	< 0.24	NA	< 0.60	< 6.1	< 6.0	< 6.1	< 0.12	< 0.30	< 0.12	< 0.12	NA	< 6.0	< 7.6	< 7.6	< 0.12	< 0.12	< 0.24	< 0.61
Tetrachloroethene	0.5	5	***55***	NA	***150***	***2170***	***1900***	***2150***	< 0.081	< 0.33	0.10 J	< 0.081	NA	< 4.1	< 8.2	< 8.2	< 0.081	***74***	***78***	***98.5***
Toluene	160	800	< 0.11	NA	< 0.27	< 3.4	< 2.7	< 3.4	< 0.053	< 0.17	< 0.053	0.070 J	NA	92	95.5 J	93.1 J	0.060 J	< 0.053	< 0.11	< 0.34
trans-1,2-Dichloroethene	20	100	< 0.22	NA	< 0.55	< 21.8	< 5.5	< 21.8	< 0.11	< 1.1	< 0.11	< 0.11	NA	< 5.5	< 27.3	< 27.3	< 0.11	0.90	0.96 J	< 2.2
Trichloroethene	0.5	5	0.22 J	NA	***7.8***	***72.3***	***25 J***	***26.7***	< 0.062	< 0.26	< 0.062	< 0.062	NA	***20 J***	***14.4 J***	***18.3 J***	< 0.062	***19***	***21***	***25.8***
Trichlorofluoromethane	698	3490	< 0.26	NA	< 0.65	< 4.3	< 6.5	< 4.3	< 0.13	< 0.21	< 0.13	< 0.13	NA	< 6.5	< 5.4	< 5.4	0.61	< 0.13	< 0.26	< 0.43
Vinyl chloride	0.02	0.2	< 0.32	NA	< 0.80	< 3.5	< 8.0	< 3.5	< 0.16	< 0.17	< 0.16	< 0.16	NA	< 8.0	< 4.4	< 4.4	< 0.16	***1.4 J+***	***2.0 J+***	***1.7 J***
Xylenes, Total	400	2000	< 0.23	NA	< 0.58	< 30.0	< 5.8	< 30.0	< 0.12	< 1.5	< 0.12	< 0.12	NA	56 J	44.2 J	43.4 J	< 0.12	< 0.12	< 0.23	< 3.0
Total PCBs																				
Aroclor-1016	0.003	0.03	< 0.0072	< 0.0072	< 0.0072	NA	NA	NA	NA	NA	< 0.0072	< 0.0072	< 0.0072	< 0.0072	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	< 0.0042	< 0.0042	< 0.0042	NA	NA	NA	NA	NA	< 0.0042	< 0.0042	< 0.0042	< 0.0042	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	< 0.013	< 0.013	< 0.013	NA	NA	NA	NA	NA	< 0.013	< 0.013	< 0.013	< 0.013	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	< 0.011	< 0.011	< 0.011	NA	NA	NA	NA	NA	< 0.011	< 0.011	< 0.011	< 0.011	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	ND	ND	ND	NA	NA	NA	NA	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
Dissolved PCBs																				
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																				
Total Dissolved Solids (mg/L)	NE	NE	784	1060	708	NA	NA	NA	NA	NA	3940	3940	4400	1000	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS) (mg/L)	NE	NE	< 2.0	2.4	< 2.0	NA	NA	NA	NA	NA	1.0	1.2	1.8 J	13.4	NA	NA	NA	NA	NA	NA

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Table 16: Groundwater Analytical Results Summary for October 2018 and April 2019
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MW-11S	MW-11S	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-14	MP-14	MP-14 (135-140)	MP-14	MP-15	MP-15	MP-15	MP-15	MP-15	MP-16
Screen Interval (feet bgs)	Preventive	Enforcement	24 - 34 ft	24 - 34 ft	44 - 48 ft	67 - 71 ft	81 - 85 ft	102 - 106 ft	121 - 125 ft	135 - 139 ft	163 - 167 ft	100 - 105 ft	135 - 140 ft	135 - 140 ft	170 - 178 ft	88 - 92 ft	100 - 105 ft	120 - 125 ft	142 - 146 ft	177 - 187 ft	106 - 116 ft
Sample Date	Action Limit	Standard	10/16/2018	04/09/2019	10/09/2018	10/09/2018	10/09/2018	10/09/2018	10/09/2018	10/09/2018	10/09/2018	10/09/2018	10/09/2018	04/08/2019	10/09/2018	10/09/2018	10/09/2018	10/09/2018	10/09/2018	10/09/2018	10/08/2018
VOCs																					
1,1,1,2-Tetrachloroethane	7	70	NA	NA	< 0.11	< 0.11	< 5.5	< 5.5	< 5.5	< 5.5	< 0.22	< 0.11	< 1.1	< 1.1	< 5.5	< 0.11	< 5.5	< 5.5	< 5.5	< 0.11	< 0.11
1,1,1-Trichloroethane	40	200	NA	NA	< 0.10	< 0.10	< 5.0	< 5.0	< 5.0	< 5.0	< 0.20	< 0.10	< 1.0	< 0.98	< 5.0	< 0.10	< 5.0	< 5.0	< 5.0	< 0.10	< 0.10
1,1,2-Trichloroethane	0.5	5	NA	NA	< 0.10	< 0.10	< 5.0	< 5.0	< 5.0	< 5.0	< 0.20	< 0.10	< 1.0	< 2.2	< 5.0	< 0.10	< 5.0	< 5.0	< 5.0	< 0.10	< 0.10
1,1-Dichloroethene	0.7	7	NA	NA	< 0.14	< 0.14	< 7.0	< 7.0	< 7.0	< 7.0	< 0.28	< 0.14	< 1.4	< 0.98	< 7.0	< 0.14	< 7.0	< 7.0	< 7.0	< 0.14	< 0.14
1,2,4-Trimethylbenzene	96	480	NA	NA	< 0.060	< 0.060	< 3.0	< 3.0	< 3.0	< 3.0	< 0.12	< 0.060	< 0.60	< 3.4	< 3.0	< 0.060	< 3.0	< 3.0	< 3.0	< 0.060	< 0.060
1,2-Dibromoethane	0.005	0.05	NA	NA	< 0.13	< 0.13	< 6.5	< 6.5	< 6.5	< 6.5	< 0.26	< 0.13	< 1.3	< 3.3	< 6.5	< 0.13	< 6.5	< 6.5	< 6.5	< 0.13	< 0.13
1,2-Dichlorobenzene	60	600	NA	NA	< 0.076	< 0.076	< 3.8	< 3.8	< 3.8	< 3.8	< 0.15	< 0.076	< 0.76	< 2.8	< 3.8	< 0.076	< 3.8	< 3.8	< 3.8	< 0.076	< 0.076
1,2-Dichloropropane	0.5	5	NA	NA	< 0.10	< 0.10	< 5.0	< 5.0	< 5.0	< 5.0	< 0.20	< 0.10	< 1.0	< 1.1	< 5.0	< 0.10	< 5.0	< 5.0	< 5.0	< 0.10	< 0.10
1,2,3-Trichlorobenzene	NE	NE	NA	NA	< 0.045	< 0.045	< 2.3	< 2.3	< 2.3	< 2.3	< 0.090	< 0.045	< 0.45	< 2.5	< 2.3	< 0.045	< 2.3	< 2.3	< 2.3	< 0.045	< 0.045
1,2,4-Trichlorobenzene	14	70	NA	NA	< 0.077	< 0.077	< 3.9	< 3.9	< 3.9	< 3.9	< 0.15	< 0.077	< 0.77	< 3.8	< 3.9	< 0.077	< 3.9	< 3.9	< 3.9	< 0.077	< 0.077
1,3,5-Trimethylbenzene	96	480	NA	NA	< 0.075	< 0.075	< 3.8	< 3.8	< 3.8	< 3.8	< 0.15	< 0.075	< 0.75	< 3.5	< 3.8	< 0.075	< 3.8	< 3.8	< 3.8	< 0.075	< 0.075
2-Butanone	800	4000	NA	NA	< 3.0	< 3.0	< 150	< 150	< 150	< 150	< 6.0	< 3.0	< 30	< 11.7	< 150	< 3.0	< 150	< 150	< 150	< 3.0	< 3.0
2-Hexanone	NE	NE	NA	NA	< 0.95	< 0.95	< 48	< 48	< 48	< 48	< 1.9	< 0.95	< 9.5	< 9.8	< 48	< 0.95	< 48	< 48	< 48	< 0.95	< 0.95
4-Methyl-2-pentanone	50	500	NA	NA	< 0.77	< 0.77	< 39	< 39	< 39	< 39	< 1.5	< 0.77	< 7.7	< 6.1	< 39	< 0.77	< 39	< 39	< 39	< 0.77	< 0.77
Acetone	1800	9000	NA	NA	< 4.7 U	< 3.4	< 170	< 260 U	< 180 U	< 280 U	< 6.8	< 3.4	< 34	< 11.0	< 170	< 3.4	< 170	< 170	< 170	< 5.4 U	< 3.6 U
Benzene	0.5	5	NA	NA	0.090 J	< 0.089	< 4.5	< 4.5	< 4.5	< 4.5	< 0.18	< 0.089	< 0.89	< 0.99	< 4.5	< 0.089	< 4.5	< 4.5	< 4.5	< 0.089	< 0.089
Bromodichloromethane	0.06	0.6	NA	NA	< 0.077	< 0.077	< 3.9	< 3.9	< 3.9	< 3.9	< 0.15	< 0.077	< 0.77	< 1.5	< 3.9	< 0.077	< 3.9	< 3.9	< 3.9	< 0.077	< 0.077
Bromoform	0.44	4.4	NA	NA	< 0.088	< 0.088	< 4.4	< 4.4	< 4.4	< 4.4	< 0.18	< 0.088	< 0.88	< 15.9	< 4.4	< 0.088	< 4.4	< 4.4	< 4.4	< 0.088	< 0.088
Bromomethane	1	10	NA	NA	< 0.59	< 0.59	< 30	***46 J+***	< 30	***56 J+***	< 1.2	< 0.59	< 5.9	< 3.9	< 30	< 0.59	< 30	< 30	< 30	< 0.59	< 0.59
Carbon disulfide	200	1000	NA	NA	< 0.053	< 0.053	< 2.7	< 2.7	< 2.7	< 2.7	< 0.11	< 0.053	< 0.53	< 1.5	< 2.7	< 0.053	< 2.7	< 2.7	< 2.7	0.080 J	< 0.053
Carbon tetrachloride	0.5	5	NA	NA	< 0.038	< 0.038	< 1.9	< 1.9	< 1.9	< 1.9	< 0.076	< 0.038	< 0.38	< 0.66	< 1.9	< 0.038	< 1.9	< 1.9	< 1.9	< 0.038	< 0.038
Chloroform	0.6	6	NA	NA	< 0.46 U	< 0.65 U	< 3.1	< 3.1	< 3.1	< 3.1	< 0.12	< 0.062	< 0.62	< 5.1	< 3.1	< 0.062	< 3.1	< 3.1	< 3.1	< 0.062	< 0.062
Chloromethane	3	30	NA	NA	< 0.16	< 0.16	< 8.0	< 14 U	< 13 U	< 13 U	< 0.32	< 0.60 U	< 3.3 U	< 8.8	< 8.0	< 0.29 U	< 17 U	< 8.0	< 14 U	< 0.66 U	< 0.65 U
cis-1,2-Dichloroethene	7	70	NA	NA	***26***	***14***	***240***	***580***	***67***	***150***	5.8	< 0.11	***17***	***15.6***	***34***	***12***	***69***	***85***	***160***	0.50	5.1
Dichlorodifluoromethane	200	1000	NA	NA	< 0.11	< 0.11	< 5.5	< 5.5	< 5.5	< 5.5	< 0.22	< 0.11	< 1.1	< 2.0	< 5.5	0.16 J	< 5.5	< 5.5	< 5.5	< 0.11	< 0.11
Ethylbenzene	140	700	NA	NA	< 0.054	< 0.054	< 2.7	< 2.7	< 2.7	< 2.7	< 0.11	< 0.054	< 0.54	< 0.87	< 2.7	< 0.054	< 2.7	< 2.7	< 2.7	< 0.054	< 0.054
Isopropylbenzene	NE	NE	NA	NA	< 0.081	< 0.081	< 4.1	< 4.1	< 4.1	< 4.1	< 0.16	< 0.081	< 0.81	< 1.6	< 4.1	< 0.081	< 4.1	< 4.1	< 4.1	< 0.081	< 0.081
m,p-Xylene	400	2000	NA	NA	< 0.057	< 0.057	< 2.9	< 2.9	< 2.9	< 2.9	< 0.11	< 0.057	< 0.57	< 1.9	< 2.9	< 0.057	< 2.9	< 2.9	< 2.9	< 0.057	< 0.057
Methyl tert-butyl ether	12	60	NA	NA	< 0.14	< 0.14	< 7.0	< 7.0	< 7.0	< 7.0	< 0.28	< 0.14	< 1.4	< 5.0	< 7.0	< 0.14	< 7.0	< 7.0	< 7.0	< 0.14	< 0.14
Methylene chloride	0.5	5	NA	NA	< 0.43 U	< 0.51 U	< 7.0	< 7.0	< 7.0	< 7.0	< 0.28	< 0.44 U	< 1.4	< 2.3	< 7.0	< 0.23 U	< 7.0	< 7.0	< 7.0	< 0.29 U	< 0.24 U
Naphthalene	10	100	NA	NA	< 0.088	< 0.088	< 4.4	< 4.4	< 4.4	< 4.4	< 0.18	< 0.20 U	< 0.88	< 4.7	< 4.4	< 0.088	< 4.4	< 4.4	< 4.4	< 0.15 U	< 0.088
n-Butylbenzene	NE	NE	NA	NA	< 0.14	< 0.14	< 7.0	< 7.0	< 7.0	< 7.0	< 0.28	< 0.14	< 1.4	< 2.8	< 7.0	< 0.14	< 7.0	< 7.0	< 7.0	< 0.14	< 0.14
n-Hexane	120	600	NA	NA	< 0.21	< 0.21	< 11	< 11	< 11	< 11	< 0.42	< 0.21	< 2.1	< 6.8	< 11	< 0.21	< 11	< 11	< 11	< 0.21	< 0.21
n-Propylbenzene	NE	NE	NA	NA	< 0.10	< 0.10	< 5.0	< 5.0	< 5.0	< 5.0	< 0.20	< 0.10	< 1.0	< 3.2	< 5.0	< 0.10	< 5.0	< 5.0	< 5.0	< 0.10	< 0.10
o-Xylene	400	2000	NA	NA	< 0.058	< 0.058	< 2.9	< 2.9	< 2.9	< 2.9	< 0.12	< 0.058	< 0.58	< 1.0	< 2.9	< 0.058	< 2.9	< 2.9	< 2.9	< 0.058	< 0.058
p-Isopropyltoluene	NE	NE	NA	NA	< 0.085	< 0.085	< 4.3	< 4.3	< 4.3	< 4.3	< 0.17	< 0.085	< 0.85	< 3.2	< 4.3	< 0.085	< 4.3	< 4.3	< 4.3	< 0.085	< 0.085
sec-Butylbenzene	NE	NE	NA	NA	< 0.13	< 0.13	< 6.5	< 6.5	< 6.5	< 6.5	< 0.26	< 0.13	< 1.3	< 3.4	< 6.5	< 0.13	< 6.5	< 6.5	< 6.5	< 0.13	< 0.13
Styrene	10	100	NA	NA	< 0.065	< 0.065	< 3.3	< 3.3	< 3.3	< 3.3	< 0.13	< 0.065	< 0.65	< 1.9	< 3.3	< 0.065	< 3.3	< 3.3	< 3.3	< 0.065	< 0.065
tert-Butylbenzene	NE	NE	NA	NA	< 0.12	< 0.12	< 6.0	< 6.0	< 6.0	< 6.0	< 0.24	< 0.12	< 1.2	< 1.2	< 6.0	< 0.12	< 6.0	< 6.0	< 6.0	< 0.12	< 0.12
Tetrachloroethene	0.5	5	NA	NA	***140***	***45***	***890***	***1200***	***1000***	***3800***	***60***	0.47 J	***370***	***408***	***920***	***120***	***990***	***1700***	***1900***	***8.5***	***53***
Toluene	160	800	NA	NA	< 0.053	0.090 J	< 2.7	< 2.7	< 2.7	< 2.7	< 0.11	0.060 J	< 0.53	< 0.69	< 2.7	< 0.053	< 2.7	< 2.7	< 2.7	< 0.053	< 0.053
trans-1,2-Dichloroethene	20	100	NA	NA	0.39 J	0.26 J	< 5.5	11 J	< 5.5	< 5.5	< 0.22	< 0.11	< 1.1	< 4.4	< 5.5	< 0.11	< 5.5	< 5.5	< 5.5	< 0.11	< 0.11
Trichloroethene	0.5	5	NA	NA	***45***	***8.8***	***150***	***290***	***110***	***250***	***4.9***	< 0.062	***29***	***31***	***64***	***10***	***80***	***110***	***160***	***0.89***	***6.6***
Trichlorofluoromethane	698	3490	NA	NA	< 0.13	< 0.13	< 6.5	< 6.5	< 6.5	< 6.5	< 0.26	< 0.13	< 1.3	< 0.86	< 6.5	< 0.13	< 6.5	< 6.5	< 6.5	< 0.13	< 0.13
Vinyl chloride	0.02	0.2	NA	NA	***0.47 J+***	***0.37 J+***	***15 J+***	***9.0 J+***	< 8.0	< 8.0	< 0.32	< 0.16	< 1.6	< 0.70	< 8.0	***0.19 J+***	< 8.0	< 8.0	< 8.0	< 0.16	< 0.16
Xylenes, Total	400	2000	NA	NA	< 0.12	< 0.12	< 5.8	< 5.8	< 5.8	< 5.8	< 0.23	< 0.12	< 1.2	< 6.0	< 5.8	< 0.12	< 5.8	< 5.8	< 5.8	< 0.12	< 0.12
Total PCBs																					
Aroclor-1016	0.003	0.03	< 0.0072	< 0.0072	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	< 0.0042	< 0.0042	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	< 0.013	< 0.013	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	< 0.011	< 0.011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																					
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																					
Total Dissolved Solids (mg/L)	NE	NE	1810	1460	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS) (mg/L)	NE	NE	< 1.4	1.4 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 16: Groundwater Analytical Results Summary for October 2018 and April 2019
Madison-Kipp Corporation
Madison, Wisconsin

Well ID			MP-16	MP-16 (140-144)	MP-16	MW-17	MW-17	MW-24	MW-24	MW-25D	MW-25D[3]	MW-25D2	MW-25D2	MW-27D	MW-27D	MW-27D2	MW-28	MW-28	MW-29S	MW-29S	MW-29D	MW-29D
Screen Interval (feet bgs)	Preventive	Enforcement	140 - 144 ft	140 - 144 ft	175 - 179 ft	160 - 170 ft	160 - 170 ft	30 - 40 ft	30 - 40 ft	120 - 130 ft	120 - 130 ft	160 - 170 ft	160 - 170 ft	130 - 140 ft	130 - 140 ft	170 - 180 ft	28 - 38 ft	28 - 38 ft	24 - 34 ft	24.6 - 34.4 ft	45 - 50 ft	45.2 - 50.2 ft
Sample Date	Action Limit	Standard	10/08/2018	04/08/2019	10/08/2018	10/15/2018	04/11/2019	10/15/2018	04/09/2019	10/10/2018	10/10/2018	10/10/2018	04/10/2019	10/10/2018	04/10/2019	10/10/2018	10/17/2018	04/12/2019	10/16/2018	04/12/2019	10/16/2018	04/12/2019
VOCs																						
1,1,1,2-Tetrachloroethane	7	70	< 0.11	< 0.27	< 0.11	< 5.5	< 2.7	NA	NA	< 0.11	< 0.11	< 0.11	< 0.27	< 0.11	< 0.27	< 0.11	< 1.1	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	40	200	< 0.10	< 0.24	< 0.10	< 5.0	< 2.4	NA	NA	< 0.10	< 0.10	< 0.10	< 0.24	< 0.10	< 0.24	< 0.10	< 1.0	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	0.5	5	< 0.10	< 0.55	< 0.10	< 5.0	< 5.5	NA	NA	< 0.10	< 0.10	< 0.10	< 0.55	< 0.10	< 0.55	< 0.10	< 1.0	NA	NA	NA	NA	NA
1,1-Dichloroethene	0.7	7	< 0.14	< 0.24	< 0.14	< 7.0	< 2.4	NA	NA	< 0.14	< 0.14	< 0.14	< 0.24	< 0.14	< 0.24	< 0.14	< 1.4	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	96	480	< 0.060	< 0.84	< 0.060	< 3.0	< 8.4	NA	NA	< 0.060	< 0.060	< 0.060	< 0.84	< 0.060 J-	< 0.84	< 0.060 J-	< 0.60	NA	NA	NA	NA	NA
1,2-Dibromoethane	0.005	0.05	< 0.13	< 0.83	< 0.13	< 6.5	< 8.3	NA	NA	< 0.13	< 0.13	< 0.13	< 0.83	< 0.13	< 0.83	< 0.13	< 1.3	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	60	600	< 0.076	< 0.71	< 0.076	< 3.8	< 7.1	NA	NA	< 0.076	< 0.076	< 0.076	< 0.71	< 0.076	< 0.71	< 0.076	< 0.76	NA	NA	NA	NA	NA
1,2-Dichloropropane	0.5	5	< 0.10	< 0.28	< 0.10	< 5.0	< 2.8	NA	NA	< 0.10	< 0.10	< 0.10	< 0.28	< 0.10	< 0.28	< 0.10	< 1.0	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	NE	NE	< 0.045	< 0.63	< 0.045	< 2.3	< 6.3	NA	NA	< 0.045	< 0.045	< 0.045	< 0.63	< 0.045	< 0.63	< 0.045	< 0.45	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	14	70	< 0.077	< 0.95	< 0.077	< 3.9	< 9.5	NA	NA	< 0.077	< 0.077	< 0.077	< 0.95	< 0.077	< 0.95	< 0.077	< 0.77	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	96	480	< 0.075	< 0.87	< 0.075	< 3.8	< 8.7	NA	NA	< 0.075	< 0.075	< 0.075	< 0.87	< 0.075	< 0.87	< 0.075 J-	< 0.75	NA	NA	NA	NA	NA
2-Butanone	800	4000	< 3.0	< 2.9	< 3.0	< 150	< 29.4	NA	NA	< 3.0	< 3.0	< 3.0	< 2.9	< 3.0	< 2.9	< 3.0	< 30	NA	NA	NA	NA	NA
2-Hexanone	NE	NE	< 0.95	< 2.5	< 0.95	< 48	< 24.6	NA	NA	< 0.95	< 0.95	< 0.95	< 2.5	< 0.95	< 2.5	< 0.95	< 9.5	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	50	500	< 0.77	< 1.5	< 0.77	< 39	< 15.3	NA	NA	< 0.77	< 0.77	< 0.77	< 1.5	< 0.77	< 1.5	< 0.77	< 7.7	NA	NA	NA	NA	NA
Acetone	1800	9000	< 5.5 U	< 2.7	< 3.8 U	< 170	< 27.4	NA	NA	< 3.7 U	< 3.4	< 4.9 U	< 2.7	< 3.8 U	< 2.7	< 3.4	< 34	NA	NA	NA	NA	NA
Benzene	0.5	5	< 0.089	< 0.25	< 0.089	< 4.5	< 2.5	NA	NA	< 0.089	< 0.089	< 0.089	< 0.25	< 0.089	< 0.25	< 0.089	< 0.89	NA	NA	NA	NA	NA
Bromodichloromethane	0.06	0.6	< 0.077	< 0.36	< 0.077	< 3.9	< 3.6	NA	NA	< 0.077	< 0.077	< 0.077	< 0.36	< 0.077	< 0.36	< 0.077	< 0.77	NA	NA	NA	NA	NA
Bromoform	0.44	4.4	< 0.088	< 4.0	< 0.088	< 4.4	< 39.7	NA	NA	< 0.088	< 0.088	< 0.088	< 4.0	< 0.088	< 4.0	< 0.088	< 0.88	NA	NA	NA	NA	NA
Bromomethane	1	10	< 0.59	< 0.97	< 0.59	< 30	< 9.7	NA	NA	< 0.72 U	< 0.59	< 0.59	< 0.97	< 0.59	< 0.97	< 0.59	< 5.9	NA	NA	NA	NA	NA
Carbon disulfide	200	1000	< 0.053	< 0.37	0.11 J	< 2.7	< 3.7	NA	NA	< 0.053	< 0.053	< 0.053	< 0.37	< 0.053	< 0.37	< 0.053	< 0.53	NA	NA	NA	NA	NA
Carbon tetrachloride	0.5	5	< 0.038	< 0.17	< 0.038	< 1.9	< 1.7	NA	NA	< 0.038	< 0.038	< 0.038	< 0.17	< 0.038	< 0.17	< 0.038	< 0.38	NA	NA	NA	NA	NA
Chloroform	0.6	6	< 0.062	< 1.3	< 0.062	< 7.0 U	< 12.7	NA	NA	< 0.062	< 0.062	< 0.062	< 1.3	< 0.062	< 1.3	< 0.062	< 0.62	NA	NA	NA	NA	NA
Chloromethane	3	30	< 0.59 U	< 2.2	< 0.61 U	< 19 U	< 21.9	NA	NA	< 0.65 U	< 0.16	< 0.57 U	< 2.2	< 0.57 U	< 2.2	< 0.16	< 3.0 U	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	7	70	2.0	2.4	< 0.11	< 5.5	5.5 J	NA	NA	< 0.11	< 0.11	< 0.11	< 0.27	0.20 J	1.1	***13***	< 1.1	NA	NA	NA	NA	NA
Dichlorodifluoromethane	200	1000	< 0.11	< 0.50	< 0.11	< 5.5	< 5.0	NA	NA	< 0.11	< 0.11	< 0.11	< 0.50	< 0.11	< 0.50	< 0.11	< 1.1	NA	NA	NA	NA	NA
Ethylbenzene	140	700	< 0.054	< 0.22	< 0.054	< 2.7	< 2.2	NA	NA	< 0.054	< 0.054	< 0.054	< 0.22	< 0.054	< 0.22	< 0.054	< 0.54	NA	NA	NA	NA	NA
Isopropylbenzene	NE	NE	< 0.081	< 0.39	< 0.081	< 4.1	< 3.9	NA	NA	< 0.081	< 0.081	< 0.081	< 0.39	< 0.081	< 0.39	< 0.081	< 0.81	NA	NA	NA	NA	NA
m,p-Xylene	400	2000	< 0.057	< 0.47	< 0.057	< 2.9	< 4.7	NA	NA	< 0.057	< 0.057	< 0.057	< 0.47	< 0.057	< 0.47	< 0.057	< 0.57	NA	NA	NA	NA	NA
Methyl tert-butyl ether	12	60	< 0.14	< 1.2	< 0.14	< 7.0	< 12.5	NA	NA	< 0.14	< 0.14	< 0.14	< 1.2	< 0.14	< 1.2	< 0.14	< 1.4	NA	NA	NA	NA	NA
Methylene chloride	0.5	5	< 0.25 U	< 0.58	< 0.15 U	< 7.0	< 5.8	NA	NA	< 0.54 U	< 0.42 U	< 0.31 U	< 0.58	< 0.36 U	< 0.58	< 0.33 U	< 1.4	NA	NA	NA	NA	NA
Naphthalene	10	100	< 0.088	< 1.2	< 0.088	< 4.4	< 11.8	NA	NA	< 0.13 U	< 0.088	< 0.088	< 1.2	< 0.088	< 1.2	< 0.088	< 0.88	NA	NA	NA	NA	NA
n-Butylbenzene	NE	NE	< 0.14	< 0.71	< 0.14	< 7.0	< 7.1	NA	NA	< 0.14	< 0.14	< 0.14	< 0.71	< 0.14	< 0.71	< 0.14	< 1.4	NA	NA	NA	NA	NA
n-Hexane	120	600	< 0.21	< 1.7	< 0.21	< 11	< 17.1	NA	NA	< 0.21	< 0.21	< 0.21	< 1.7	< 0.21	< 1.7	< 0.21	< 2.1	NA	NA	NA	NA	NA
n-Propylbenzene	NE	NE	< 0.10	< 0.81	< 0.10	< 5.0	< 8.1	NA	NA	< 0.10	< 0.10	< 0.10	< 0.81	< 0.10	< 0.81	< 0.10	< 1.0	NA	NA	NA	NA	NA
o-Xylene	400	2000	< 0.058	< 0.26	< 0.058	< 2.9	< 2.6	NA	NA	< 0.058	< 0.058	< 0.058	< 0.26	< 0.058	< 0.26	< 0.058	< 0.58	NA	NA	NA	NA	NA
p-Isopropyltoluene	NE	NE	< 0.085	< 0.80	< 0.085	< 4.3	< 8.0	NA	NA	< 0.085	< 0.085	< 0.085	< 0.80	< 0.085	< 0.80	< 0.085	< 0.85	NA	NA	NA	NA	NA
sec-Butylbenzene	NE	NE	< 0.13	< 0.85	< 0.13	< 6.5	< 8.5	NA	NA	< 0.13	< 0.13	< 0.13	< 0.85	< 0.13	< 0.85	< 0.13	< 1.3	NA	NA	NA	NA	NA
Styrene	10	100	< 0.065	< 0.47	< 0.065	< 3.3	< 4.7	NA	NA	< 0.065	< 0.065	< 0.065	< 0.47	< 0.065 J-	< 0.47	< 0.065 J-	< 0.65	NA	NA	NA	NA	NA
tert-Butylbenzene	NE	NE	< 0.12	< 0.30	< 0.12	< 6.0	< 3.0	NA	NA	< 0.12	< 0.12	< 0.12	< 0.30	< 0.12	< 0.30	< 0.12	< 1.2	NA	NA	NA	NA	NA
Tetrachloroethene	0.5	5	***28***	***37.8***	***2.5***	***880***	***831***	NA	NA	0.33 J	0.36 J	< 0.081	< 0.33	0.27 J	***2.7***	***26 J-***	***420***	NA	NA	NA	NA	NA
Toluene	160	800	< 0.053	< 0.17	< 0.053	< 2.7	< 1.7	NA	NA	< 0.053	< 0.053	< 0.053	< 0.17	< 0.053	< 0.17	0.060 J	< 0.53	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	20	100	< 0.11	< 1.1	< 0.11	< 5.5	< 10.9	NA	NA	< 0.11	< 0.11	< 0.11	< 1.1	< 0.11	< 1.1	0.29 J	< 1.1	NA	NA	NA	NA	NA
Trichloroethene	0.5	5	***6.1***	***7.9***	0.40 J	***63***	***67.6***	NA	NA	< 0.062	< 0.062	< 0.062	< 0.26	***0.61***	***1.7***	***22 J-***	< 0.62	NA	NA	NA	NA	NA
Trichlorofluoromethane	698	3490	< 0.13	< 0.21	< 0.13	< 6.5	< 2.1	NA	NA	< 0.13	< 0.13	< 0.13	< 0.21	< 0.13	< 0.21	< 0.13	< 1.3	NA	NA	NA	NA	NA
Vinyl chloride	0.02	0.2	< 0.16	< 0.17	< 0.16	< 8.0	< 1.7	NA	NA	< 0.16	< 0.16	< 0.16	< 0.17	< 0.16	< 0.17	< 0.16	< 1.6	NA	NA	NA	NA	NA
Xylenes, Total	400	2000	< 0.12	< 1.5	< 0.12	< 5.8	< 15.0	NA	NA	< 0.12	< 0.12	< 0.12	< 1.5	< 0.12	< 1.5	< 0.12	< 1.2	NA	NA	NA	NA	NA
Total PCBs																						
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	< 0.0072	< 0.0072	NA	NA	NA	NA	NA	NA	NA	< 0.0072	< 0.0072	< 0.0072	< 0.0072	< 0.0072	< 0.0072
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	< 0.0042	< 0.0042	NA	NA	NA	NA	NA	NA	NA	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042	< 0.0042
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	< 0.013	< 0.013	NA	NA	NA	NA	NA	NA	NA	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	< 0.011	< 0.011	NA	NA	NA	NA	NA	NA	NA	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011	< 0.011
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Dissolved PCBs																						
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																						
Total Dissolved Solids (mg/L)	NE	NE	NA	NA	NA	NA	NA	2120	2170	NA	NA	NA	NA	NA	NA	NA	1570	1310	740	762	746	780
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	1.8	3.2	NA	NA	NA	NA	NA	NA	NA	< 1.4	1.4 J	< 1.4	< 0.95	< 1.4	< 0.95

Notes on Page 5.

Table 16: Groundwater Analytical Results Summary for October 2018 and April 2019
Madison-Kipp Corporation
Madison, Wisconsin

Updated By: P. Popp 5/13/2019
Checked By: L. Auner 5/14/2019

Footnotes:
1 - Indicates that the sample was quenched prior to analysis.
2 - Indicates that the sample was not quenched prior to analysis.
3 - Indicates the result of a field duplicate.

General Notes:
All concentrations noted in this table are reported in micrograms per liter (µg/L) unless otherwise noted.
Analytes shown in the table are from VOC and PCB analyte lists. Only analytes that were detected in at least one sample are shown in the table. A complete list of constituents analyzed are included in the laboratory analytical reports.

100 = NR 140 Wis. Adm. Code Preventive Action Limit Exceedance
100 = NR 140 Wis. Adm. Code Enforcement Standard Exceedance
< = Constituent not detected above noted laboratory method detection limit.
* = Data is suspect and not used in evaluation. (Note from historical data through 2015, provided by Arcadis)
B = Compound was found in the blank and sample.
bgs = Below Ground Surface.
cn = Laboratory Contaminant.
E = Estimated concentration, exceeds instrumental calibration range.
ID = Identification.
J = Estimated concentration above the adjusted method detection limit and below the reporting limit or because of non-compliant laboratory quality check.
J- = Results may be biased low because of non-compliant laboratory quality check.
J+ = Results may be biased high because of non-compliant laboratory quality check.
U = Results determined to be non-detect at the concentration limit because of blank contamination.
NA = Not Analyzed.
ND = Not Detected.
NE = Not Established.
PCBs = Polychlorinated biphenyls.
VOCs = Volatile Organic Compounds.

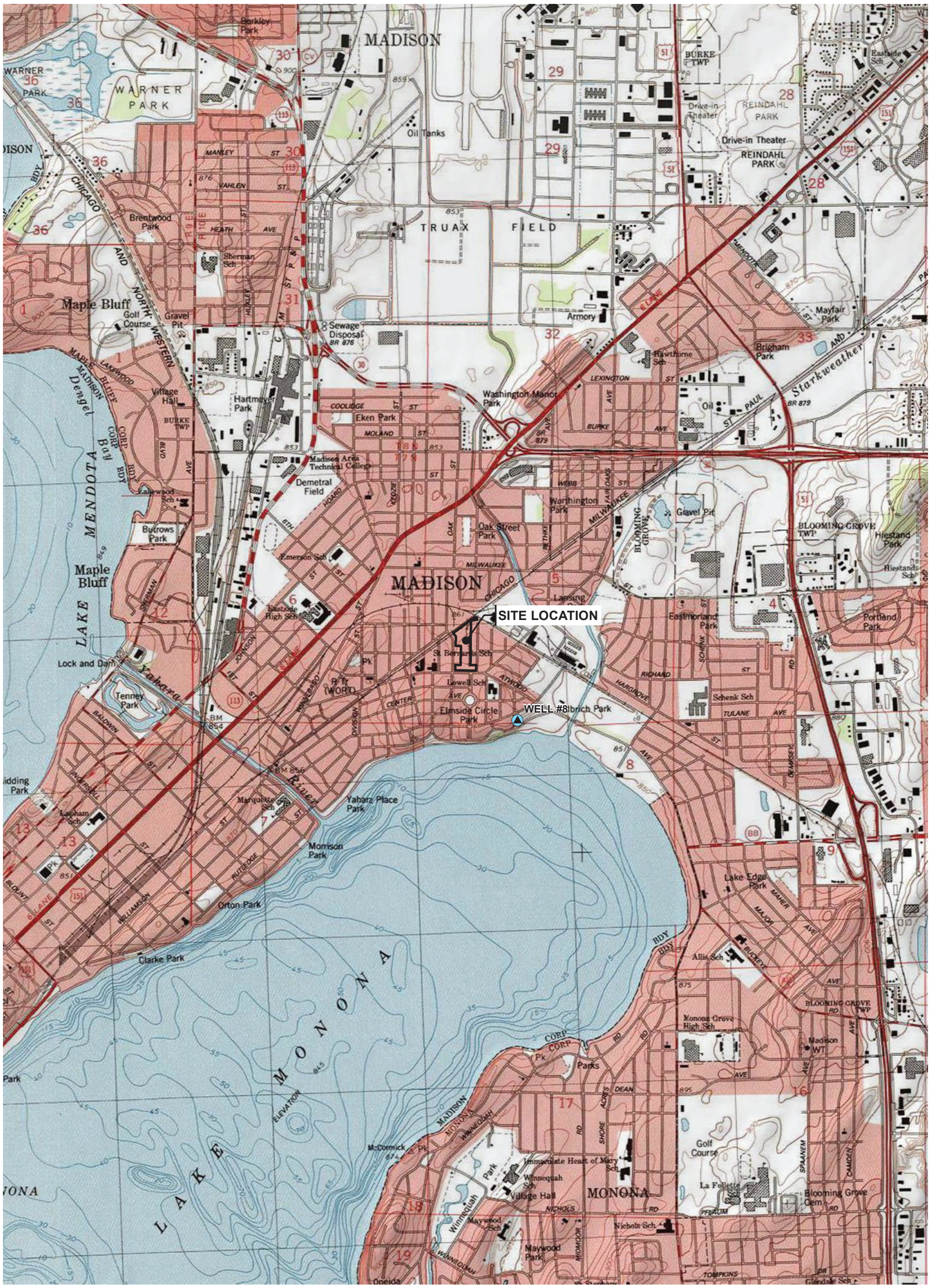
Table 17: Storm Sewer System Sediment Sampling Analytical Results Summary
Madison-Kipp Corporation
201 Waubesa Street, Madison, Wisconsin

Parameter	Unit[2]	NR 720 RCL	MH-1A										OUTFALL SAMPLE						
		Industrial Direct Contact[1]	Storm Sewer	MH-1A(3)-Basin	MH-1A 9/22/17	MH-1A (10/6/17)	MH-1A (10/17/17)	MH-1A-022118	MH-1A-051018	MH-1A-082318	MH-1A 100818	MH-1A (5/30/2019)	Pipe	Outfall (6/30)	Outfall 9/22/17	Outfall Pipe-051018	Outfall-082318	Outfall 100818	Outfall (5/30/2019)
Sample Date	--	--	12/28/2016	6/30/2017	9/22/2017	10/6/2017	10/17/2017	2/21/2018	5/10/2018	8/23/2018	10/8/2018	5/30/2019	12/19/2016	6/30/2017	9/22/2017	5/10/2018	8/23/2018	10/8/2018	5/30/2019
Matrix	--	--	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
PCB-1016	mg/kg	28	<0.011	<0.0092	<0.0089	<0.0097	<0.010	<0.0094	<0.0083	<0.0053	<0.0058	<0.0058	<0.0095	<0.0086	<0.011	<0.0099	<0.0061	<0.0067	<0.0080
PCB-1221	mg/kg	0.883	<0.0059	<0.0051	<0.0049	<0.0054	<0.0057	<0.0052	<0.0046	<0.0076	<0.0084	<0.0083	<0.0053	<0.0048	<0.0061	<0.0055	<0.0088	<0.0096	<0.011
PCB-1232	mg/kg	0.792	<0.0040	<0.0035	<0.0034	<0.0037	<0.0039	<0.0036	<0.0031	<0.0050	<0.0056	<0.0055	<0.0036	<0.0032	<0.0042	<0.0038	<0.0059	<0.0064	<0.0076
PCB-1242	mg/kg	0.972	<0.0063	<0.0055	<0.0053	<0.0058	<0.0061	<0.0056	<0.0049	<0.010	<0.011	<0.011	<0.0057	<0.0051	<0.0066	<0.0059	<0.012	<0.013	<0.016
PCB-1248	mg/kg	0.975	***3.6***	***2.2***	0.11	0.23	0.71	0.33	0.15	0.14	0.16	0.24	***9.2***	***5.0***	***4.0***	***1.9***	0.32	0.57	0.43
PCB-1254	mg/kg	0.988	<0.0063	<0.0055	<0.0053	<0.0058	<0.0061	<0.0056	<0.0049	<0.0084	<0.0093	<0.0092	<0.0057	<0.0051	<0.0066	<0.0059	<0.0097	<0.011	<0.013
PCB-1260	mg/kg	1	<0.0034	<0.003	<0.0029	<0.0031	<0.0033	<0.0031	<0.0027	<0.0081	<0.0090	<0.0089	0.37	<0.0028	<0.0036	<0.0032	<0.0095	<0.010	<0.012
Total PCBs	mg/kg	0.967	***3.6***	***2.2***	0.11	0.23	0.71	0.33	0.15	0.14	0.16	0.24	***9.6***	***5.0***	***4.0***	***1.9***	0.32	0.57	0.43

Notes:
< = Less than
mg/kg = Milligrams per kilogram
µg/L = Micrograms per liter
RCL = residual contaminant level
PCBs = Polychlorinated Biphenyls
Bold and Italics = WDNR Industrial Direct Contact Limit Exceedance

Updated by: A. Stehn 7/26/2019
Checked by: B. Wachholz 7/26/2019

Footnotes:
(1) The total PCBs and specific aroclors are compared to the WDNR industrial direct contact residual contaminant levels (June 2018).
(2) Samples are reported in mg/kg unless otherwise noted.



LEGEND

BASE MAP FROM USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE SERIES, "USA TOPO MAPS" WEB BASEMAP SERVICE LAYER.

SITE PROPERTY BOUNDARY

MUNICIPAL SUPPLY WELL

0 2,000 4,000 FEET

1 " = 2,000 '
1:24,000

TRC
708 Heartland Trail
Suite 3000
Madison, WI 53717
Phone: 608.826.3600

PROJECT:

MADISON-KIPP CORPORATION
201 WAUBESA STREET
MADISON, WISCONSIN

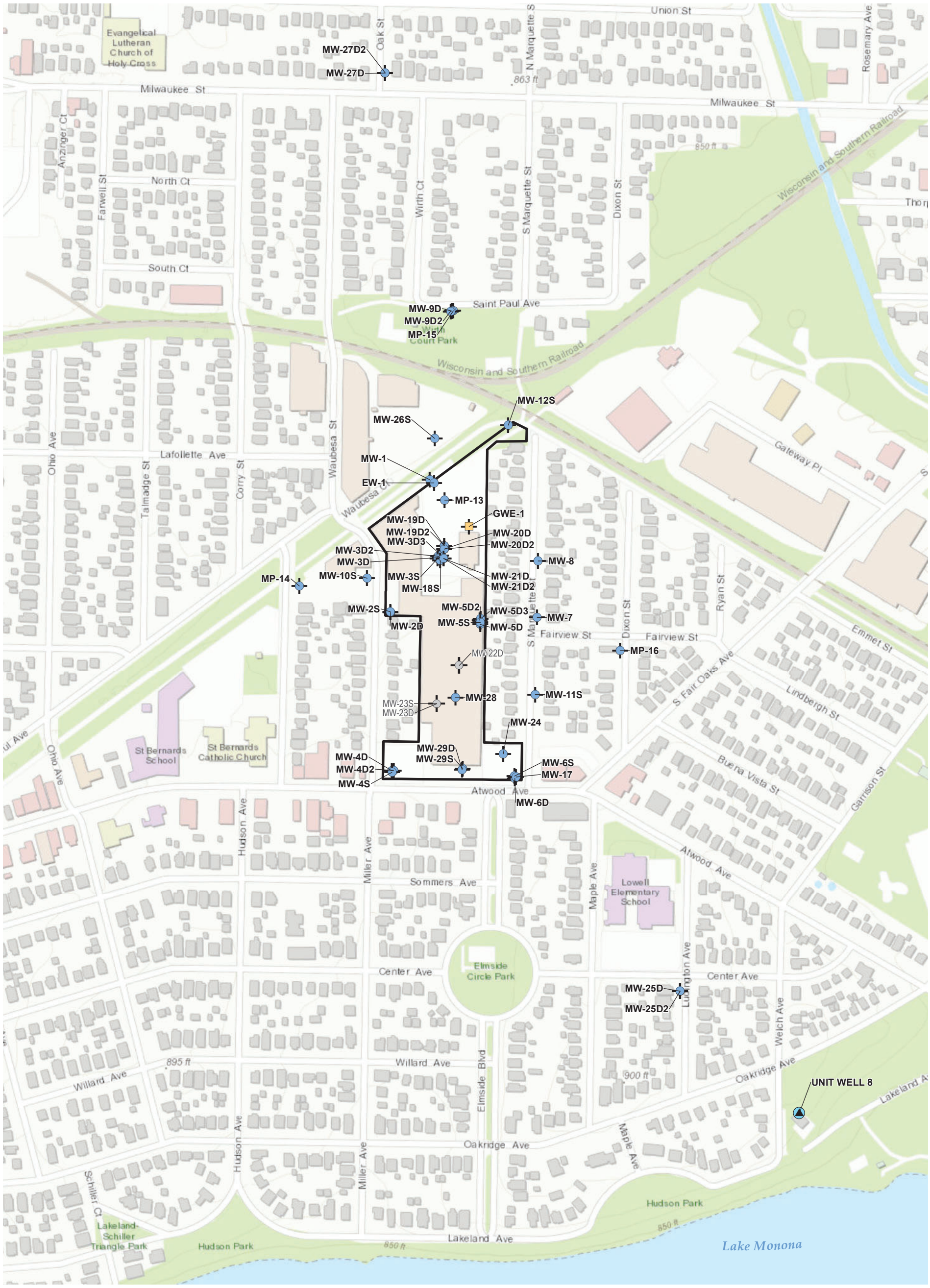
TITLE:

SITE LOCATION MAP

DRAWN BY:	S. MAJOR
CHECKED BY:	A. STEHN
APPROVED BY:	K. VATER
DATE:	AUGUST 2019
PROJ. NO.:	323372
FILE:	323372-2019S2-001.mxd

FIGURE 1

Plot Date: 8/23/2019, 09:04:30 AM by SMAJOR -- LAYOUT: ANSI B (11"x17")
Path: S:\1-PROJECTS\MadisonKIPPCorp\MadisonWI\Madison_Archive\2019_323372\323372-2019S2-002.mxd
Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US)
Map Rotation: 0
TRC - GIS



LEGEND

- SITE PROPERTY BOUNDARY
- GROUNDWATER EXTRACTION WELL
- MONITORING WELL
- MUNICIPAL SUPPLY WELL
- ABANDONED MONITORING WELL

BASE MAP FROM ESRI, "WORLD TOPOGRAPHIC MAP" WEB BASEMAP SERVICE LAYER.

0 300 600 FEET

1 " = 300 '
1:3,600

N

TRC
708 Heartland Trail
Suite 3000
Madison, WI 53717
Phone: 608.826.3600

PROJECT:
MADISON-KIPP CORPORATION
201 WAUBESA STREET
MADISON, WISCONSIN

TITLE:
WELL LOCATIONS MAP

DRAWN BY:	S.MAJOR
CHECKED BY:	A. STEHN
APPROVED BY:	K. VATER
DATE:	AUGUST 2019
PROJ. NO.:	323372
FILE:	323372-2019S2-002.mxd

FIGURE 2

Plot Date: 8/23/2019, 09:07:23 AM by SMAJOR -- LAYOUT: ANSI B (11"x17")
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Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US)
Map Rotation: 0
TRC - GIS

LEGEND

- SITE PROPERTY BOUNDARY
- SOIL EXTRACTION WELL
- VAPOR MONITORING POINT
- VAPOR MONITORING POINT (PROPOSED 2018 SAMPLING)
- VAPOR MONITORING POINT (LOST)

NOTES

1. BASE MAP IMAGERY FROM ESRI/DIGITAL GLOBE, 2018.
2. PARCEL INFORMATION FROM WISCONSIN STATE CARTOGRAPHER'S OFFICE, 2018

0 100 200 FEET

1 " = 100 '

1:1,200

N

TRC
708 Heartland Trail
Suite 3000
Madison, WI 53717
Phone: 608.826.3600

PROJECT:

MADISON-KIPP CORPORATION
201 WAUBESA STREET
MADISON, WISCONSIN

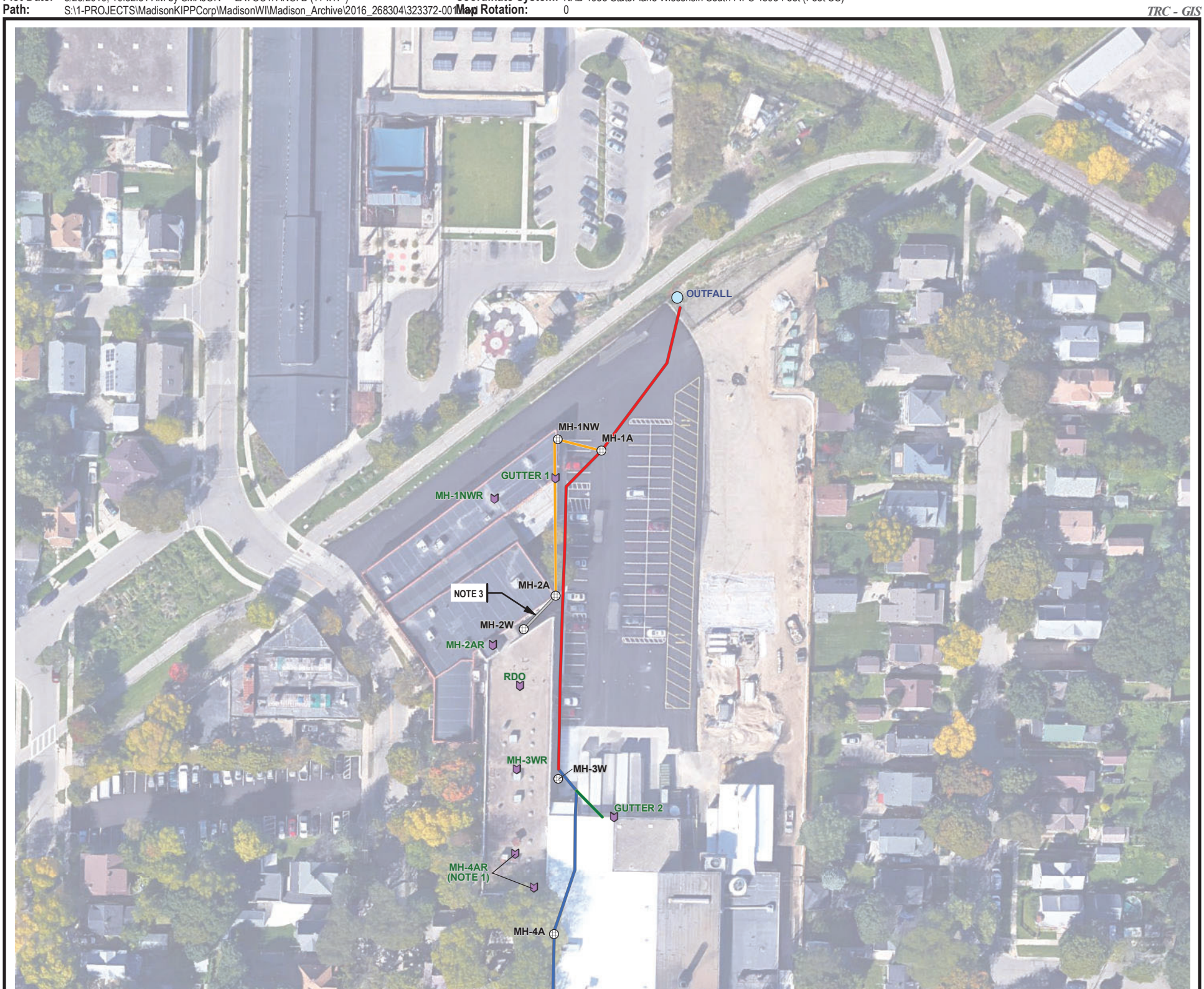
TITLE:

SOIL VAPOR EXTRACTION WELL AND VAPOR MONITORING POINT LOCATION MAP

DRAWN BY:	S. MAJOR
CHECKED BY:	A. STEHN
APPROVED BY:	K. VATER
DATE:	AUGUST 2019
PROJ. NO.:	323372
FILE:	323372-2019S2-003.mxd

FIGURE 3

Plot Date: 8/23/2019, 10:32:31 AM by SMAJOR -- LAYOUT: ANSI B (11"x17")
Path: S:\1-PROJECTS\MadisonKIPPCorp\MadisonWI\Madison_Archive\2016_268304\323372-001.mxd
Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US)
Map Rotation: 0
TRC - GIS



NOTES

1. MH-4AR REPRESENTS TWO COLLECTION POINTS THAT MERGE INTO ONE DISCHARGE POINT.
2. MH-5AH REPRESENTS A DISCHARGE PIPE LOCATED IN MANHOLE MH-5A, BOTH ABANDONED IN 2017.
3. MH-2W AND THE SECTION OF PIPE BETWEEN MH-2W AND MH-2A WERE ABANDONED IN 2017.
4. BASEMAP FROM GOOGLE EARTH PRO & PARTNERS, 2014.

LEGEND

- SITE PROPERTY BOUNDARY
- ROOF DRAIN INLET
- MANHOLE/CATCH BASIN
- OUTFALL
- S-1 PIPE SECTION
- S-2 PIPE SECTION
- S-3 PIPE SECTION
- S-3-ABANDONED (NOTE 3)
- S-4 PIPE SECTION

0 100 200 FEET

1 " = 100 '
1:1,200

N

TRC
708 Heartland Trail
Suite 3000
Madison, WI 53717
Phone: 608.826.3600

PROJECT:
MADISON-KIPP CORPORATION
201 WAUBESA STREET
MADISON, WISCONSIN

TITLE:
RAIN GARDEN SITE MAP AND STORM SEWER INFRASTRUCTURE

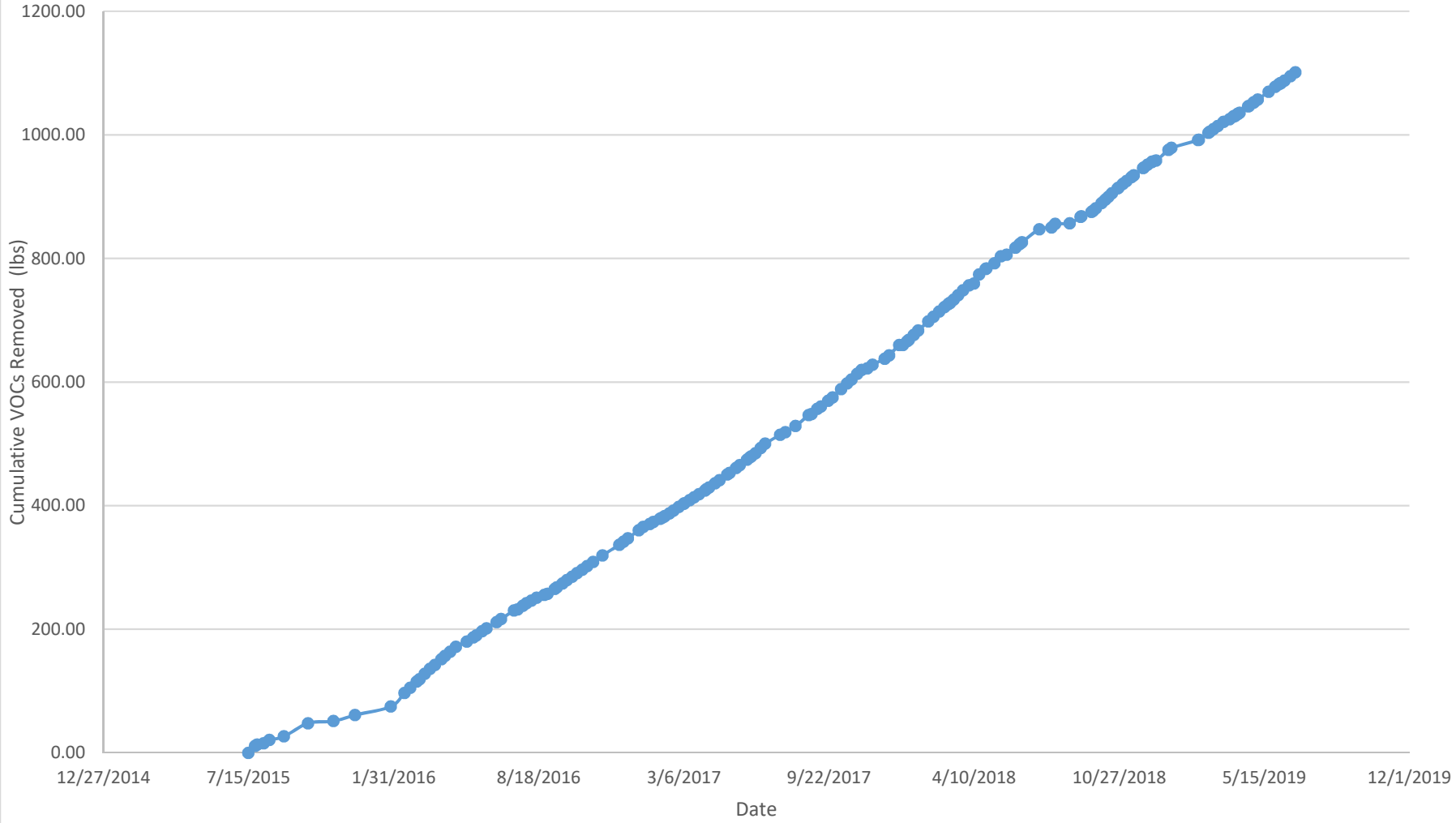
DRAWN BY:	S. MAJOR
CHECKED BY:	A. STEHN
APPROVED BY:	K. VATER
DATE:	AUGUST 2019
PROJ. NO.:	323372
FILE:	323372-001.mxd

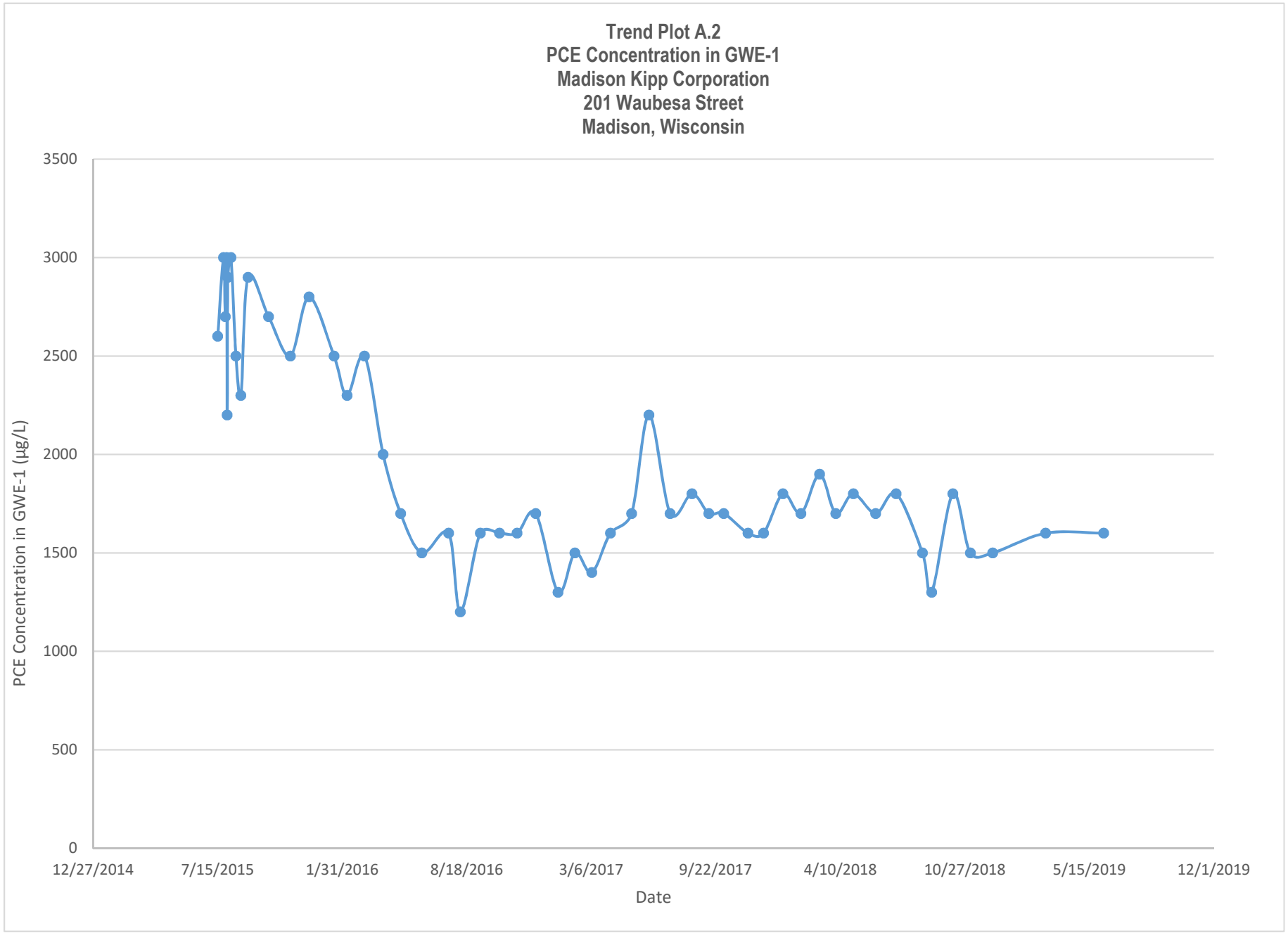
FIGURE 4

Attachment 1

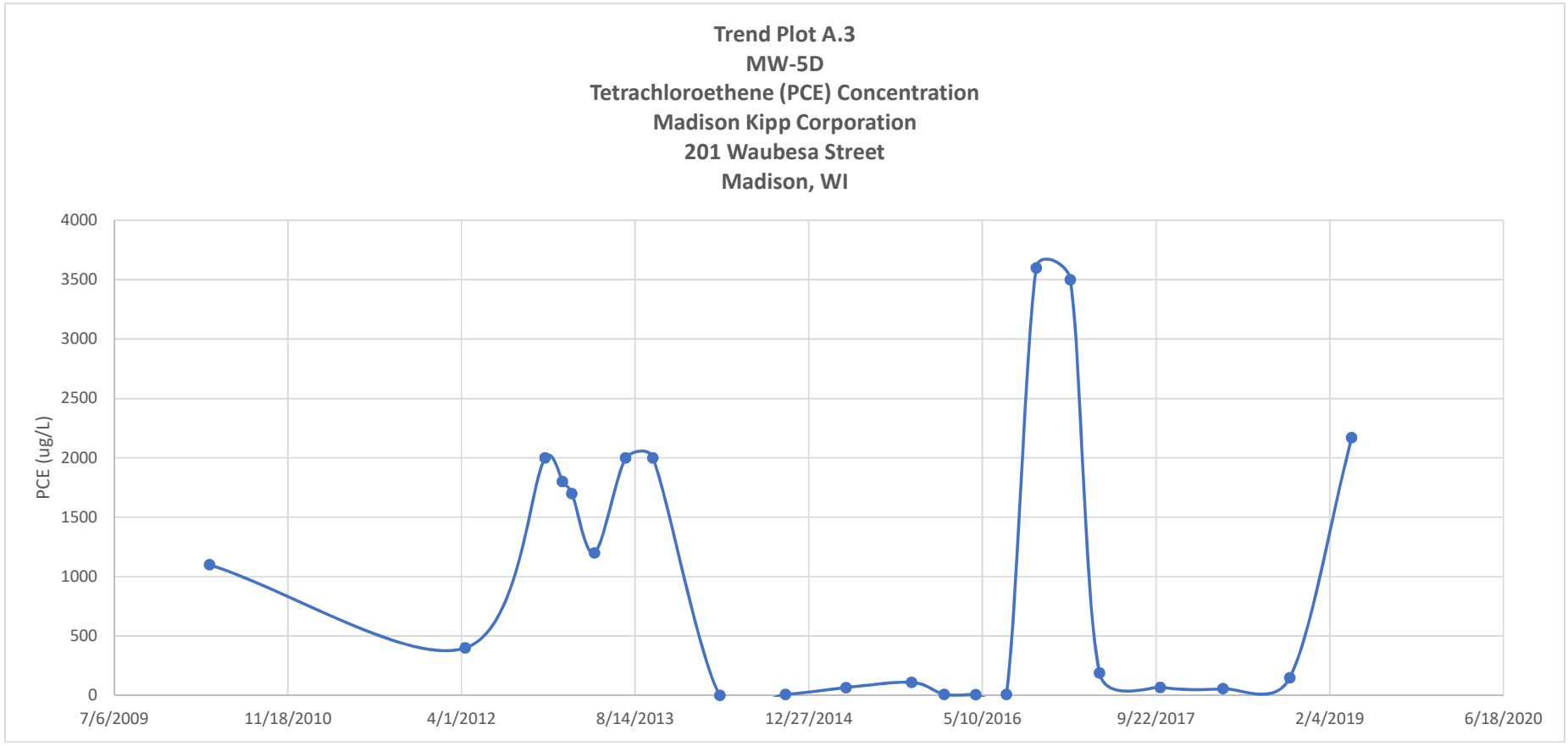
Trend Plots

Trend Plot A.1
Groundwater Extraction System Operation
Cumulative Volatile Organic Compounds (VOCs) Removed
Madison Kipp Corporation
201 Waubesa Street
Madison, Wisconsin





P:_Vision\Madison-Kipp\323372_2019\(4) Phase 00004 - Bi-Annual Reporting\S1\Tables\T2_A2


Trend Plot A.3
MW-5D
Tetrachloroethene (PCE) Concentration
Madison Kipp Corporation
201 Waubesa Street
Madison, WI
PCE (ug/L)
4000
3500
3000
2500
2000
1500
1000
500
0
7/6/2009
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020

Attachment 2

Remediation Site Operation, Maintenance, Monitoring, and Optimization Report Form 4400-194

State of Wisconsin
Department of Natural Resources
PO Box 7921, Madison WI 53707-7921
dnr.wi.gov

Remediation Site Operation, Maintenance, Monitoring & Optimization Report

GENERAL INSTRUCTIONS, PURPOSE AND APPLICABILITY OF THIS FORM: Completion of this form is required under s. NR 724.13(3), Wis. Adm. Code. A narrative report or letter containing the equivalent information required in this form may be submitted in lieu of the actual form. Failure to submit this form as required is a violation of s. NR 724.13(3), Wis. Adm. Code, and is subject to the penalties in s. 292.99, Wis. Stats. This form must be submitted every six months for soil or groundwater remediation projects that report operation and maintenance progress in accordance with s. NR 724.13(3), Wis. Adm. Code.

Note: Long-term monitoring results submitted in accordance with s. NR 724.17(3), Wis. Adm. Code are required to be submitted within 10 business days of receiving sampling results and are not required to be submitted using this form. However, portions of this form require monitoring data summary information that may be based on information previously submitted in accordance with s. NR 724.17(3), Wis. Adm. Code.

Note: Responsible parties should check with the State Project Manager assigned to the site to determine if this form is required to be submitted at sites responded to under the Federal Comprehensive Environmental Response and Compensation Act (commonly known as Superfund) or an equivalent State lead Superfund response.

Note: Responsible parties should check with the State Project Manager assigned to the site to determine if any of the information required in this form may be omitted or changed and obtain prior written approval for any omissions or changes.

Submittal of this form is not a substitute for reporting required by Department programs such as Waste Water or Air Management. Personally identifiable information on this form is not intended to be used for any other purpose than tracking progress of the remediation by the Bureau for Remediation and Redevelopment.

Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records Law (ss. 19.31-19.39, Wis. Stats.). Unless otherwise noted, all citations refer to Wisconsin Administrative Code.

Note: There is a separate semi-annual report required under s. NR 700.11(1), Wis. Adm. Code. Reporting under that provision is through an internet-based form:

http://dnr.wi.gov/topic/Brownfields/documents/regs/NR700progreport.pdf

Section GI - General Site Information

A. General Information

1. Site name

Madison-Kipp Corporation

2. Reporting period from:	To:	Days in period:
01/01/2019	06/30/2019	181

3. Regulatory agency (enter DNR, DATCP and/or other)	4. BRRTS ID No. (2 digit program-2 digit county-6 digit site specific)
DNR	02-13-558625

5. Site location

Region	County	Address
South Central Region	Dane	201 Waubesa Street

Municipality name ◉ City ○ Town ○ Village	Township	Range ◉E ○W	Section	¼	¼ ¼
Madison	07 N	10	5	SW	NW

6. Responsible party	7. Consultant
Name: Tony Koblinski	☐ Select if the following information has changed since the last submittal
Mailing address: 201 Waubesa Street, Madison, WI 53704	Company name: TRC
Phone number: (608) 242-5244	Mailing address: 708 Heartland Trail, Suite 3000, Madison, WI 53717
	Phone number: (608) 826-3665

8. Contaminants

VOCs, Metals, PCBs

9. Soil types (USCS or USDA)

CL, SP, GP

10. Hydraulic conductivity(cm/sec):	11. Average linear velocity of groundwater (ft/yr)
0.08 - 13.2	0.5 - 12.9

12. If soil is treated ex situ, is the treatment location off site? ○ Yes ◉ No

If yes, give location: Region	County

Municipality name ○ City ○ Town ○ Village	Township	Range ○E ○W	Section	¼	¼ ¼
	N				

B. Remediation Method

Only submit sections that apply to an individual site. Check all that apply:

- ☒ Groundwater extraction (submit a completed Section GW-1).
- ☐ Free product recovery (submit a completed Section GW-1).
- ☐ In situ air sparging (submit a completed Section GW-2).
- ☐ Groundwater natural attenuation (submit a completed Section GW-3).
- ☐ Other groundwater remediation method (submit a completed Section GW-4).
- ☒ Soil venting (including soil vapor extraction building venting and bioventing submit a completed Section IS-1).
- ☐ Soil natural attenuation (submit a completed Section IS-2).
- ☐ Other in situ soil remediation method (submit a completed Section IS-3).
- ☐ Biopiles (submit a completed Section ES-1).
- ☐ Landspreading/thinspreading of petroleum contaminated soil (submit a completed Section ES-2).
- ☐ Other ex situ remediation method (submit a completed Section ES-3).
- ☐ Site is a landfill (submit a completed Section LF-1).

C. General Effectiveness Evaluation for All Active Systems

If the remediation is active (not natural attentuation), complete this subsection.

1. Is the system operating at design rates and specifications? ○ Yes ◉ No

   If the answer is no, explain whether or not modifications are necessary to achieve the goal that was previously established in design.

   SVE was shutdown in October 2018 to evaluate if continued operation was necessary due to low VOC concentrations in soil gas.

2. Are modifications to the system warranted to improve effectiveness ○ Yes ◉ No

   If yes, explain:

3. Is natural attenuation an effective low cost option at this time? ○ Yes ◉ No
4. Is closure sampling warranted at this time? ○ Yes ◉ No
5. Are there any modifications that can be made to the remediation to improve cost effectiveness? ◉ Yes ○ No

   If yes, explain:

   The onsite soil vapor extraction system is being evaluated for potential permanent shut down.

D. Economic and Cost Data to Date

1. Total investigation cost: Cost Not Included
2. Implementation costs (design, capital and installation costs, excluding investigation costs):
3. Total costs during the previous reporting period:
4. Total costs during this reporting period:
5. Total anticipated costs for the next reporting period:
6. Are any unusual or one-time costs listed in the reporting periods covered by D.3., D.4. or D.5. above? ○ Yes ○ No

   If yes, explain:

7. If closure is anticipated within 12 months, estimated costs for project closeout:

E. Name(s), Signature(s) and Date of Person(s) Submitting Form

Legibly print name, date and sign. Only persons qualified to submit reports under ch. NR 712 Wis. Adm. Code are to sign this form for sites with any ongoing active remediation, monitoring or an investigation. Other persons may sign this form for sites with no response activities during the six month reporting period.

Registered Professional Engineers:

I hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Print name	Title
Katherine Vater	Project Manager
Signature: Katherine Vater	Date: 8/22/19

Hydrogeologists:

I hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03(1), Wis. Adm. Code, and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Print name	Title
Signature	Date

Scientists:

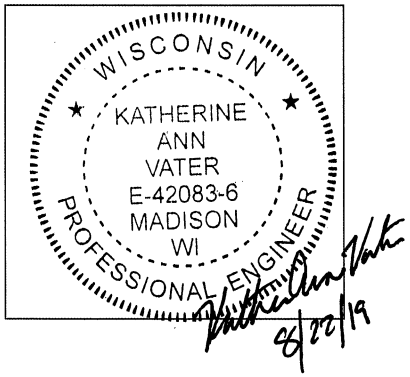
I hereby certify that I am a scientist as that term is defined in s. NR 712.03(3), Wis. Adm. Code, and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

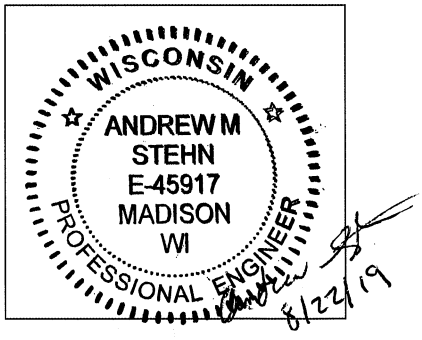
Print name	Title
Signature	Date

Other Persons:

Print name	Title
Andrew Stehn	Project Engineer
Signature: Andrew Stehn	Date: 8/22/19

Professional Seal(s), if applicable:





Section GW-1, Groundwater Pump and Treat Systems and Free Product Recovery Systems

A. Groundwater Extraction System Operation:

1. Total number of groundwater extraction wells or trenches available: 1 and the number in use during period: 1

2. Number of days of operation (only list the number of days the system actually operated, if unknown explain:
149 days

3. System utilization in percent (days of operation divided by reporting time period multiplied by 100). If < 80%, explain:
82%

4. Quantity of groundwater extracted during this time period: 8,752,402 gallons

5. Average groundwater extraction rate: 40 gpm

6. Quantity of dissolved phase contaminants removed during this time period in pounds: 131 lbs

B. Free Product Recovery System Operation

1. Is free product (nonaqueous phase liquid) being recovered at this site? ◯ Yes ◉ No
If yes, explain:

2. Quantity of free product extracted during this time period (enter none if none): _____ gallons

3. Average free product extraction rate: _____ gpm

C. System Effectiveness Evaluation

1. Is a contaminated groundwater plume fully contained in the capture zone? ◯ Yes ◉ No
If no, explain:
The groundwater extraction and treatment system was designed to facilitate the removal of volatile organic compound (VOC) mass in addition to providing hydraulic containment of VOCs in groundwater in order to minimize off-site VOC migration.

2. If free product is present, is the free product fully contained in capture zone? ◯ Yes ◯ No
If no, explain:

3. If free product is present in any wells at the site, but free product was not recovered during reporting period, explain:

4. If free product is not present, determine the single contaminant that requires the greatest percent reduction to achieve ch. NR 140 ES and PAL. Perform this calculation for all contaminants that were present at the site that have ch. NR 140 standards. Use the highest contaminant concentration measured in any sampling points during reporting period. If free product is present, write "FREE PRODUCT" in C.4.a.

a. Contaminant: Tetrachloroethene

b. Percent reduction necessary to reach ch. NR 140 ES and PAL: 99 %

c. Maximum contaminant concentration level in any monitoring well of that contaminant: 2,170 µg/L

d. Maximum contaminant concentration level in any extraction well of that contaminant: 1,600 µg/L

e. If the maximum concentration in a monitoring well is more that one order of magnitude above the concentration measured in an extraction well, explain why the extracted groundwater contamination levels are significantly less than the levels at other locations within the aquifer.
Not Applicable

D. Additional Attachments

Attach the following to this form:

- Most recent report to the DNR Wastewater Program, if applicable. Attachment 3
- Groundwater contour map with capture zone indicated. Figures included in 2018 Annual Report and updated Figures will be provided in 2019 Annual Report
- Groundwater contaminant distribution map (may be combined with contour map).
- Graph of cumulative contaminant removal, if both free product recovery and ground water extraction are used, provide separate graphs.
- Time versus groundwater contaminant concentration graphs for the contaminant listed in C.4.a. (above), as follows:
  - -- Graph of contaminant concentrations versus time for each extraction well in use during the period. Attachment 1;Graph A.2
  - -- Graph of contaminant concentrations versus time for the monitoring well with the greatest level of contamination.
- Groundwater contaminant chemistry table. Table 16 and Attachment 5 Attachment 1 ;Graph A.3
- Groundwater elevations table. Table 15
- System operational data table. Table 1

Section GW-2, In Situ Air Sparging Systems

N/A

A. In Situ Air Sparging System Operation

1. Number of air injection wells at the site and the number actually in use during the period:
2. Number of days of operation (only list the number of days the system actually operated, if unknown explain):
3. System utilization in percent (days of operation divided by reporting time period multiplied by 100). If < 80%, explain:

B. System Effectiveness Evaluation

1. If free product is not present, determine the single contaminant that requires the greatest percent reduction to achieve ch. NR 140 ES and PAL. Perform this calculation for all contaminants that were present at the site that have ch. NR 140 standards. Use the highest contaminant concentration measured in any sampling points during reporting period. If free product is present, write "FREE PRODUCT" in B.1.a.

   a. Contaminant:

   b. Percent reduction necessary to reach ch. NR 140 ES and PAL: %

   c. Maximum contaminant concentration level in any monitoring well: µg/L

2. Is there any evidence that air is short circuiting through natural or man-made pathways? ◯ Yes ◯ No
   If yes, explain:

3. Is the size of the plume: ◯ Increasing ◯ Stabalized ◯ Decreasing ?
   If increasing, explain:

C. Additional Attachments

Attach the following to this form:

- Groundwater contour map.
- Groundwater contaminant distribution map (may be combined with contour map).
- When contaminants are aerobically biodegradable, attach a dissolved oxygen in groundwater map (dissolved oxygen may be combined with the contaminant data on a single map).
- Site map with all air injection wells and groundwater monitoring points.
- Graph of contaminant concentrations versus time for the contaminant listed in B.1.a. (above) for the monitoring point with the greatest level of contamination.
- Groundwater contaminant chemistry table.
- Groundwater elevations table.
- System operational data table.

Section GW-3, Natural Attenuation (Passive Bioremediation) in Groundwater N/A

A. Effectiveness Evaluation

1. If free product is not present, determine the single contaminant that requires the greatest percent reduction to achieve ch. NR 140 ES and PAL. Perform this calculation for all contaminants that were present at the site that have ch. NR 140 standards. Use the highest contaminant concentration measured in any sampling points during reporting period. If free product is present, write "FREE PRODUCT" in A.1.a

   a. Contaminant: _____

   b. Percent reduction necessary to reach ch. NR 140 ES and PAL: _____ %

   c. Maximum contaminant concentration level in any monitoring well of that contaminant: _____ µg/L

2. Aquifer parameters:

   a. Hydraulic conductivity: _____ cm/sec

   b. Groundwater average linear velocity: _____ ft/yr

3. Is there a downgradient monitoring well that meets ch. NR 140 standards? ◯ Yes ◯ No

4. Based on water chemistry results, is the plume: ◯ Expanding ◯ Stabalized ◯ Contracting ?

5. If the answer in 4. (above) is "expanding," is natural attenuation still the best option? ◯ Yes ◯ No

   If yes, explain:

6. Biodegradation parameters:

   a. Upgradient (or other site specific background) DO level: _____ µg/L

   b. DO levels in the part of the plume that is most heavily contaminated _____ µg/L

7. Is site closure a viable option within 12 months from the date of this form? ◯ Yes ◯ No

8. Are there any modifications that can improve cost effectiveness? ◯ Yes ◯ No

   If yes, explain:

9. Have groundwater table fluctuations changed the contaminant level trends over time? ◯ Yes ◯ No

   If yes, explain:

10. Has the direction of groundwater flow changed during the reporting period? ◯ Yes ◯ No

    If yes, approximate change in degrees: _____

B. Additional Attachments

Attach the following:

- Groundwater contour map.
- Groundwater contaminant distribution map (may be combined with contour map).
- When contaminants are aerobically biodegradable, attach a dissolved oxygen in groundwater map (dissolved oxygen may be combined with the contaminant data on a single map).
- Graph of contaminant concentrations versus time for the contaminant listed in A.1.a. (above) for the monitoring point with the greatest level of contamination.
  Note: This is the minimum required graph; however, it is recommended that multiple time versus contamination concentration graphs as described in the instructions on page 24 for Natural Attenuation of Groundwater be submitted.
- Graph of contaminant concentrations versus distance.
- Groundwater contaminant chemistry table.
- Groundwater biological parameters.
- Groundwater elevations table.

Section GW-4, Other Groundwater Remediation Methods

N/A

A. Effectiveness Evaluation

1. If free product is not present, determine the single contaminant that requires the greatest percent reduction to achieve ch. NR 140 ES and PAL. Perform this calculation for all contaminants that were present at the site that have ch. NR 140 standards. Use the highest contaminant concentration measured in any sampling points during reporting period. If free product is present, write "FREE PRODUCT" in A.1.a.

   a. Contaminant: _____

   b. Percent reduction necessary: _____ %

   c. Maximum contaminant concentration level in any monitoring well: _____ µg/L

2. Is the size of the plume: ◯ Increasing ◯ Stabalized ◯ Decreasing ?

3. Describe the method used to remediate groundwater at the site:

4. List any additional information required by the DNR for this method for this site:

B. Additional Attachments

Attach the following:

- Groundwater contour map.
- Groundwater contaminant distribution map (may be combined with contour map).
- When contaminants are aerobically biodegradable, attach a dissolved oxygen in groundwater map (dissolved oxygen may be combined with the contaminant data on a single map).
- Graph of contaminant concentrations versus time for the contaminant listed in A.1.a. (above) for the monitoring point with the greatest level of contamination.
- Groundwater contaminant chemistry table.
- Groundwater elevations table.
- Any other attachments required by the DNR for this remediation method.

Section IS-1, Soil Venting (Including Soil Vapor Extraction, Building Venting and Bioventing)

A. Soil Venting Operation

Note: This form is not required for building vapor mitigation systems that are installed proactively to protect building occupants/users and are not considered part of ongoing active soil remediation.

1. Number of air extraction wells available and number of wells actually in use during the period: 9 available, 0 used during this period
2. Number of days of operation (only list the number of days the system actually operated, if unknown explain):
   0 days
3. System utilization in percent (days of operation divided by reporting time period multiplied by 100). If < 80%, explain:
   0% because SVE system was shut down in October 2018 for evaluation purposes as approved by WDNR
4. Average depth to groundwater: 19.74 gpm

B. Building Basement/Subslab Venting System Operation

1. Number of venting points available and number of points actually in use during the period:
2. Number of days of operation (only list the number of days the system actually operated, if unknown explain):
3. System utilization in percent (days of operation divided by reporting time period multiplied by 100). If < 80%, explain:

C. Effectiveness Evaluation

1. Average contaminant removal rate for the entire system: N/A see pounds per day
2. Average contaminant removal rate per well or venting point: Section A.3 pounds per day
3. If the average contaminant removal rate is less than one pound per day for the entire system, or if the average contaminant removal rate per well is less than one tenth of a pound per day, evaluate the following:
   a. If contaminants are aerobically biodegradable and confirmation borings have not been drilled in the past year:
      i. Oxygen levels in extracted air: percent
      ii. Methane levels in extracted air (ppm_V) If over 10 ppm_V, explain:
      iii. If methane is not present above 10 ppm_V and if oxygen is greater than 20 percent in extracted air, you should either:
      - Drill confirmation borings during the next reporting period, if the entire site should be considered for closure.
      - Or, perform an in situ respirometry test in a zone of high contamination. Do not perform the test in an air extraction well, use a gas probe or water table well. If a zero order rate of decay based on oxygen depletion is less than 2 mg/kg per day, then you should drill confirmation borings, if the entire site should be considered for closure. If the rate of decay is between 2 and 10 mg/kg, operate for one more reporting period before evaluating further. If the zero order rate of decay is greater than 10 mg/kg total hydrocarbons, continue operating the system in a manner than maximizes aerobic biodegradation.
   b. If contaminants are not aerobically biodegradable and confirmation borings have not been recently drilled during the past year, you should drill confirmation borings during the next reporting period if the entire site should be considered for closure.
   c. If soil borings were drilled during the past year and soil contamination remains above acceptable levels, explain if the system effectiveness can be increased and/or if other options need to be considered to achieve cleanup criteria.

D. Additional Attachments

Attach the following to this form:

- Well and soil sample location map indicating all air extraction wells. If forced air injection wells are also in use, identify those wells. Figure 3
- If water table monitoring wells are present at the site, a map of well locations. Figure 2
- Time versus vapor phase contaminant concentration graph. Not Applicable. SVE was not operated during this reporting period, see Section A.3
- Time versus cumulative contaminant removal graph.
- Groundwater elevations table, if water table wells are present at the site; also list screen lengths and elevations. Table 16
- Table of soil contaminant chemistry data. N/A
- Soil gas data, if gas probes are used to monitor subsurface conditions in locations other than where air is extracted.
- System operational data table. N/A

Soil gas sampling will be completed in July 2019 and is not included in this report.

Section IS-2, Natural Attenuation (Passive Bioremediation) in Soil

N/A

A. Effectiveness Evaluation

1. Soil gas information in the soil that is most contaminated from a permanently installed gas probe(s) or water table monitoring well(s).
   a. Hydrocarbon levels: _____ ppm, with an FID
   b. Oxygen levels: _____ percent
   c. Carbon dioxide levels(specify ppm or percent): _____
   d. Methane levels: _____ ppm
2. Soil gas information in background (uncontaminated soil) from permanently installed gas probe(s)or water table monitoring well(s):
   a. Hydrocarbon levels: _____ ppm, with an FID
   b. Oxygen levels: _____ percent
   c. Carbon dioxide levels(specify ppm or percent): _____
   d. Methane levels: _____ ppm
3. List the results of the single boring that had the highest levels of soil contamination during the last round of soil sampling, and the date those samples were collected. Since soil borings are only drilled periodically, list the most recent data even if the data is prior to this reporting period. Since this data is used to assess progress based on the most recent soil sampling event, do not list data from prior sampling events.
   a. Total hydrocarbons (Specify if GRO and/or DRO): _____ µg/kg
   b. Specific compounds (µg/kg):
      i. Benzene: _____ µg/kg
      ii. 1,2 Dichloroethane: _____ µg/kg
      iii. Ethylbenzene: _____ µg/kg
      iv. Toluene: _____ µg/kg
      v. Total xylenes: _____ µg/kg
4. Is there any evidence that contaminants are leaching into groundwater? ◯ Yes ◯ No
   If the answer is yes and if groundwater quality is not being monitored, explain:
5. Is site closure a viable option within 12 months from the date of this form? ◯ Yes ◯ No
6. Are there any modifications that can be made to the remediation to improve cost effectiveness? ◯ Yes ◯ No
   If yes, explain:

B. Additional Attachments

Attach the following to this form:

- Well and soil sample location map.
- Cross sections showing the water table, soil sampling locations, screened intervals for gas probes or water table wells, geologic contacts, and any former excavation boundaries.
- Graphs of contaminant concentrations, oxygen, carbon dioxide and methane levels over time.
- Groundwater elevations table, if water table wells are present at the site.
- Table of soil contaminant chemistry.
- Table of soil gas readings.

Section IS-3, Other In Situ Soil Remediation Methods

N/A

A. Effectiveness Evaluation

1. Describe the method used to remediate soil at the site:

2. List all information required by the DNR for this remediation method for this site:

B. Additional Attachments

Attach the following to this form:

- Any other attachments required by the DNR for this remediation method.

Section ES-1, Ex Situ Soil Treatment Using Biopiles

N/A

A. Effectiveness Evaluation

1. Volume of soil in the biopile (if multiple biopiles, list number of piles and total volume):

2. Monitoring used to assess progress and verify optimal conditions for biodegradation.

   a. Vapor phase measurements of gases (average of all readings from most recent sampling event):

      i. VOCs by FID: _____ ppm

      ii. Oxygen: _____ percent

      iii. Carbon dioxide: _____ percent

      iv. Methane: _____ ppm

   b. Soil temperature: _____ °F

   c. Soil moisture sensors, if used: _____ percent

3. Treatment amendments added to the soil during construction:

   a. Artificial nutrients, excluding manure.

      i. Types and total pounds added:

      ii. Nitrogen and phosphorous content of the added amendment: _____ percent

   b. Manure: _____ total pounds

   c. Natural organic materials (straw, wood chips, etc.)(type and total pounds):

4. Forced air biopiles only answer the following:

   a. Total air flow rate of the ventilation system: _____ scfm

   b. Average contaminant removal rate: _____ pounds per day

   c. Average biodegradation rate based on oxygen utilization: _____ pounds per day

5. If soil samples have been taken to monitor progress, list results. Only list the most recent results. If none collected enter NA.

   a. Total hydrocarbons. Specify if GRO and/or DRO: _____ µg/kg

   b. Specific compounds (µg/kg):

      i. Benzene: _____ µg/kg

      ii. 1,2 Dichloroethane: _____ µg/kg

      iii. Ethylbenzene: _____ µg/kg

      iv. Toluene: _____ µg/kg

      v. Total xylenes: _____ µg/kg

B. Additional Attachments

Attach the following to this form:

- Figure showing the construction details of the biopile and any sampling locations within the biopile.
- Table of soil contaminant chemistry data.
- Table of operational data.

Section ES-2, Ex Situ Soil Treatment Using Landspreading/Thinspreading

N/A

A. Effectiveness Evaluation

1. Method used: ◯ landspreading ◯ thinspreading

Note: For purposes of this form, "landspreading" is the placement of contaminated soil on native topsoil, incorporation of that soil into the native soil and planting crops or other plants on it. The term "thinspreading" refers to placing contaminated soil on an impervious base for aeration.

2. Was any progress monitoring using field screening on soil conducted during this reporting period? ◯ Yes ◯ No

3. If the answer to A.2. (above) is yes:

i. List monitoring method:

ii. List monitoring results:

4. Is there any evidence of soil erosion at the landspreading/thinspreading location? ◯ Yes ◯ No

5. Spreading thickness: _____ inches

6. Type of crop planted (if thinspreading with no crop planted, so state):

7. Confirmation sampling date: _____ Anticipated confirmation sampling date: _____

8. Most recent soil sample results, if soil samples for laboratory analysis have been collected to monitor progress. Only list the highest result of the most recent sampling round. If no samples have been collected, enter NA.

a. Total hydrocarbons. Specify if GRO and/or DRO: _____ µg/kg

b. Specific compounds (µg/kg):

i. Benzene: _____ µg/kg

ii. 1,2 Dichloroethane: _____ µg/kg

iii. Ethylbenzene: _____ µg/kg

iv. Toluene: _____ µg/kg

v. Total xylenes: _____ µg/kg

B. Additional Attachments

Attach the following to this form:

- Map of the landspreading/thinspreading area. If soil samples have been collected, specify locations of samples and dates of sampling.
- Table of soil contaminant chemistry data.
- Table of any field screening results with dates of sample collection.

Section ES-3, Landfills N/A

Note: Reporting forms or reporting requirements in a Department approved Operation and Maintenance Plan for a landfill may take the place of this form.

Specific Inspection Items	Potential Problem Areas	Status	Notes
Perimeter Security Fencing	Broken or missing wood slats, torn chain link fabric, barbed wire, other - list		
Entrance Gate and Locking Mechanism	Lock broken/missing, mechanism inoperative.		
Monitoring Wells and Wellhead Covers	Signs of tampering, casing damaged, lock missing.		
Final Cover Vegetation	Bare spots, stressed vegetation, deep rooted vegetation.		
Final Cover Slope (explain below)	Gullies, lack of vegetation, subsidence, ponding.		
Evidence of Burrowing Animals	Damage to final cover, evidence of waste.		
Stormwater Drainage Channels	Gullies, erosion, debris, culvert blocked.		
Passive Landfill Gas Venting System	Damaged or blocked vent risers, stressed vegetation.		
Active Landfill Gas Extraction System	Damaged or blocked piping, cleanouts, other blower flare, knockouts, etc.		
Leachate Collection System	Pumps, connection piping, collection system piping, extraction wells, collection tanks, tanker truck loading system or sanitary sewer discharge piping.		
Access Road Cover Mowing; Tall Vegetation Removal	Ponding, rutting, erosion, cracked or damaged pavement. Mowing and tall vegetation removal done to specified vegetation.		

Summary of Deficiencies and/or Corrective Actions:

B. Additional Attachments N/A

Attach the following to this form:

- Any photographs documenting problems and maintenance activities.
- Maps, drawings showing site features requiring maintenance.
- Records for leachate pumping/discharge/hauling.
- Records for active gas extraction volumes.

Section INS- 1, Section by Section Instructions and Information

Specific Section by Section Instructions for This Form. The site name and reporting period is listed on every page. Then if the pages are inadvertently separated, that information can be used to determine which pages form the report.

General Site Information

-- A.1. List the name as it appears on the DNR tracking system. If the person filling out the form does not know what the name on the tracking system is, use the name that the DNR used in the most recent correspondence.

-- A.2. The reporting period should be either from January 1 to June 30 or July 1 to December 31 for active systems. For passive systems, use a calendar year basis. If however the report covers a newly installed system, list the actual startup date instead of January 1 or July 1. For new passive systems, use the first date that monitoring data is available as the date of startup.

-- A.3. Enter all regulatory agencies that regulate the site.

-- A.4. This form is a DNR form. For that reason, list the DNR site number. If there are other agencies regulating the site, listing identification numbers for other agencies is also recommended, but not mandatory, unless specified by those other agencies.

-- A.5. If the information listed for the site location is not sufficient information for a person to use to drive to a site (example: no street address in a rural area), also include a map that is sufficient for a person to use to drive to the site. A U.S. G.S. topographic map that shows the site location may be used.

-- A.8. List the contaminants that have at one time exceeded the PALs or Table Values in ch. NR 720. If GRO and/or DRO exceed the ch. NR 720 standards, also list GRO and/or DRO. Do not list other contaminants that have never exceeded state standards at the site. If more room is necessary, write "SEE ATTACHED SHEETS" and list all contaminants on a separate sheet.

-- A.9. List the predominant soil types that are contaminated. If there is both contaminated soil and groundwater at the site, list soil types both above and below the water table. If only some soil is contaminated, do not list the soil types that are uncontaminated. If the site soils meet soil cleanup criteria, but groundwater is contaminated, so state that. Specify if the USCS or USDA system is used for soil descriptions. This line specifies soil because the vast majority of contaminated sites do not have contaminated bedrock. If bedrock is contaminated, also list that bedrock type.

-- A.10. If the groundwater meets ch. NR 140 standards, enter "NA - NO NR 140 EXCEEDANCES". Otherwise, list the estimated hydraulic conductivity and the method used to estimate it (bail-down tests, calculations based on grain size, pumping test, etc.) If the hydraulic conductivity has not been determined, state when the tests are to be conducted. When a number of test results are available, list the range of results and the geometric mean. If however some results have a low level of accuracy and some results have a high level of accuracy, you should only list the most accurate results. See the Section on aquifer testing in the *Guidance on Design, Installation and Operation of Ground Water Extraction and Product Recovery Systems* for more information.

-- A.11. If the groundwater meets ch. NR 140 standards, enter "NA - NO NR 140 EXCEEDANCES". Otherwise, enter groundwater average linear velocity as a function of hydraulic conductivity, effective porosity and the groundwater gradient. You should use the geometric mean from A.11. (above) and the most representative value for the gradient at the site. Estimate the effective porosity based on soil types and geologic origin of the soil. If there are reasons to believe that the average liner velocity estimate is less than the actual rate at the site, so state that reason. Secondary porosity effects, flow through submerged utility trenches, widespread contaminant distribution in low permeability soils, etc., are reasons to assume that the actual migration rate is much greater than the predicted average linear velocity. In such cases, you should explain the reasoning for doubting the predicted average linear velocity.

-- A.12. If the information listed for the soil treatment location is not sufficient information for a person to use to drive to a site, also include a map that is sufficient for a person to use to drive to the site. A U.S.G.S. topographic map or a plat map that shows the site location may be used.

-- B. Check all methods used at a site. For example, if groundwater extraction, free product recovery and soil venting are used, check all three methods and submit the additional pages for those methods. If dual-phase or bioslurping are used, these methods extract both air and groundwater, check boxes for and attach additional pages for both soil venting and pump and treat.

-- C. Remediation systems that use any form of enhancement are considered "active" and sites where there are no enhancements of any kind are considered "passive" forms of remediation. For purposes of these forms, natural attenuation (also called naturally occurring bioremediation) is "passive" and all other remediation methods are "active" methods.

-- C.1. Design flow rates refers to flow rates such as gallons per minute extracted by a ground water extraction system, standard cubic feet per minute extracted by a soil venting system, standard cubic feet per minute injected by an in situ air sparging system, etc. If the actual flow rate is within 80 percent of the rate predicted in the design, consider that as meeting the design specification.

-- D. The cost data in this section is used by DNR staff to evaluate whether or not the selected remedy is the most cost effective remedy and whether or not system modifications may be warranted to improve efficiency and/or cost effectiveness. Responsible parties and consultants are encouraged to submit cost information so that DNR staff may assist responsible parties and consultants accomplish environmental cleanups in the most cost effective manner.

Total costs for past costs are all costs to date. This information is for all costs that were incurred to investigate and/or remediate the site. These costs include but are not limited to: consulting labor and supplies, laboratory testing, transportation, equipment, etc. If the consultant does not pass all costs through the consulting firm, the consultant will need to contact their client for other non-consulting costs to determine total costs. Exceptions include costs for attorney fees, accounting, claim assistance in preparing claims to state reimbursement funds, or other indirect expenses that are not essential to remediating the site.

-- D.2. The initial implementation costs are all costs that are incurred to start implementing a remedy at a site. Costs for the investigation however are excluded because those costs are incurred prior to remedy selection. Since costs for treatability and/or pilot testing are used to procure data for remedial design and are specific to different remediation methods, these costs should be included in implementation costs and not investigation costs. Startup or shakedown costs are also considered implementation costs and should not be considered operation and maintenance costs.

-- D.3. Costs for implementation or investigation should not be repeated here or they will be double counted.

-- D.4. Costs for implementation or investigation should not be repeated here or they will be double counted.

-- D.5. Costs for implementation or investigation should not be repeated here or they will be double counted.

-- D.6. Examples of one-time or unusual costs include the following:
- Replacing a burned out motor on a pump.
- Replacement of a well that was destroyed by a snowplow.
- Confirmation sampling to determine if the site meets closeout criteria. This type of cost is considered an unusual cost because this type of sampling is not conducted during most reporting periods.

-- D.7. This estimate of costs is for all costs to close out a site minus the salvage value of any remediation equipment. Pertinent costs include items such as well abandonment, equipment removal from the site, consulting costs associated with these items, etc. Do not include any costs that will not be paid by a state reimbursement fund, such as repaving.

Section GW-1, Groundwater Extraction and Product Recovery

-- A.1. List two numbers, the total number of extraction wells at the site and the number that were in actual use during the period. If all wells were in use, state that on the form.

-- A.2. The number of days of operation are the number of days that the system was actually operated. If the system was shut down for reasons such as: repairs were necessary, piping froze, shut down to provide time for subsurface conditions to equilibrate before sampling, etc., do not list those days as being in operation.

-- A.3. System utilization is a measure of the amount of time that the system operated relative to the amount of time that it could have operated.

-- A.5. The average is for the entire site, not per well or trench. For purposes of determining the average ground water extraction rate, calculate the average based on the total volume of groundwater extracted divided by the time of the reporting period. For example, if the system operated at 10 gallons per minute for one month, the amount of water extracted would be approximately 432,000 gallons. If the reporting period was six months long, then the time period is approximately 260,000 minutes. Therefore, the average flow rate over six months is 432,000 divided by 260,000 minutes for an average flow rate of 1.67 gallons per minute (gpm).

-- A.6. Calculate the total dissolved contaminants removed in pounds. If the estimate is a sum of BTEX and not based on a total hydrocarbon test (GRO and/or DRO), so state that on the form.

-- B.3. The average should be based on the entire site over the entire reporting period. See instructions above for A.5. List the free product recovery rate as gallons per day (gpd), not gallons per minute (gpm).

-- C.1. To answer this question, a thorough evaluation of water levels and chemical analyses in all monitoring points at the site is necessary.

-- C.2. If the capture zone has not been determined mathematically, it will need to be determined to answer this question. See the *Guidance on Design, Installation and Operation of Ground Water Extraction and Product Recovery Systems* for and any recent update or errata sheets for more information on plume capture.

-- C.4. When free product is present, line C.4.a. should state "FREE PRODUCT" and lines C.4.b. through C.4.d. are left blank. Otherwise, complete the following calculations.
There typically are several compounds at most contaminated sites that exceed the standards in ch. NR 140. The purpose of this question is to focus on the single contaminant that requires the most treatment to achieve groundwater quality standards on a percent reduction basis. For example, the most recent round of sampling at an example site demonstrated the highest levels of contaminants were 1,000 µg/L benzene and 1,000 µg/L toluene in the most heavily contaminated monitoring well. The ES and PAL for benzene is 5 µg/L and 0.5 µg/L (respectively) and for toluene the ES and PAL is 343 µg/L and 68.6 µg/L (ES and PAL data as of August 1995). Therefore the percent reduction to meet the ES and PAL for benzene is 99.5 and 99.95 percent and for toluene it is 65.7 and 93.14 percent. For that reason, the single contaminant that is most critical to reaching state groundwater standards is benzene. Therefore benzene is entered on line a. In this example, 99.5 and 99.95 percent is entered on line b. In this example, 1,000 µg/L is entered on line c. In this example, benzene is the driving factor, therefore enter the maximum benzene level in the single most heavily contaminated extraction well during the most recent sampling period on line d.

-- D. See the generic discussion at the end of the instructions (below) for figures, graphs and tables, starting on page INS-2.

Section GW-2, In Situ Air Sparging

-- B.1. See instructions for Section GW-1, Item C.4.

-- C. See the generic discussion at the end of the instructions (below) for figures, graphs and tables, starting on page INS-2.

Section GW-3, Natural Attenuation in Groundwater

-- A.1. See instructions for Section GW-1, Item C.4.

-- A.2.a. List the estimated hydraulic conductivity that was listed on line A.11 in Section GI-1.

-- A.2.b. List the groundwater average linear velocity that was listed on line A.12 in Section GI-1.

-- A.3. Assess the monitoring well network to determine if there is a down gradient well that has not been impacted by the contaminants. Consider the possibility of a submerged (or diving) plume in that assessment. If all evidence indicates that the plume does not extend to the farthest "clean" downgradient well, indicate "YES" on the form. Otherwise indicate "NO" on the form. If there are not plans to install such a well, explain.

-- A.4. Based on the contaminant distribution, evaluate whether or not the plume is expanding, stabilized, or contracting. When making this determination, consider the contaminant that requires the greatest percent reduction to achieve ch. NR 140 standards.

-- A.5. If the plume is expanding and a justification is necessary, add additional sheets justifying why natural attenuation is still the appropriate remedy. If it is not, further describe in the explanation the plans to use a different remedy.

-- A.6.a. Enter the upgradient dissolved oxygen (DO) level(s). If however there are contaminants measured in the upgradient well, it is not a true background measurement. In that case enter "UNKNOWN" on the form.

-- A.6.b. Enter the range of DO values measured in wells within the plume.

-- B. See the generic discussion at the end of the instructions (below) for figures, graphs and tables, starting on page INS-2.

Section GW-4, Other Groundwater Remediation Methods

-- A.1. See instructions for Section GW-1, Item C.4.
-- A.2. Self explanatory.
-- A.3-4. Enter the information specified by the DNR for this method at this site.

Section IS-1, Soil Venting (Including both Soil Vapor Extraction and Bioventing)

-- B.3. This subsection is used as a trigger for determining if the system requires an evaluation for future activities, such as improvements, converting the site to monitoring for natural attenuation, closure, etc. If an in situ respiration test must be performed, see Hinchee, R.E. and Ong, S.K. 1992. A Rapid In Situ Respiration Test for Measuring Aerobic Biodegradation Rates of Hydrocarbons in Soil. *Journal of the Air and Waste Management Association.* Volume 42, Number 10. Pages 1305 to 1312 for general procedures. For a discussion of methane monitoring, see the instructions for Section IS-2, item A.1.d., below. If the contaminant extraction rate in B.3. is greater than the trigger levels, leave lines B.3.a.i. and B.3.a.ii. blank.

-- C. See the generic discussion at the end of the instructions (below) for figures, graphs and tables, starting on page INS-2.

Section IS-2, Natural Attenuation in Soil

-- A.1. This data is used to assess subsurface conditions based on soil gas data. Whenever possible, a permanently installed gas probe should be used. If at all possible, the gas probe should be located in the part of the site that is most heavily contaminated, since that is the part of the site that is likely to take the longest amount of time to meet ch. NR 720 standards. Water table wells that have screen exposed above the water table are also good measuring points. When installing permanent gas probes, you should install the screen deep enough that a true measure of the most heavily contaminated soil is possible, but install the screen shallow enough to assure that it is not submerged by groundwater table fluctuations. In some situations where the depth of contamination is variable, consideration should be given to using nested gas probes instead of only using probes at a single depth. Measuring points that should not be used include temporary gas probes because these points are less repeatable from one monitoring event to the next. Also, if there has been an active soil venting system in use at the site, the air extraction wells should not be used because these wells are in locations that have had much more aggressive treatment than the rest of the site.

-- A.1.a. A flame ionization detector (FID) is specified instead of a photo ionization detector (PID) because PIDs often read inaccurately in moist oxygen deficient/carbon dioxide rich atmospheres. Also, PIDs do not detect some petroleum compounds.

-- A.1.d. Methane readings are used to measure for anaerobic conditions. When the original product that is lost is a refined petroleum product (not crude oil), there should not be any methane within the product. Methane however may be produced under very anaerobic conditions. Any method may be used for measuring methane provided that the detection limit is less than a few ppm_V. One convenient method is to use an FID that is equipped with a granular activated carbon filter to filter out non-methane components. Some instrument manufacturers make these filters available as options. In some cases an FID will flame out due to an oxygen deficiency. Some instrument manufacturers offer a dilution device as an accessory that is designed to prevent flameouts and also raises the upper limit of measurement to 10,000 ppm_V or higher. If the meter "pegs" at 10,000 ppm_V (or one percent), enter ">10,000 ppm_V."

-- A.2. The background monitoring point is predominantly used to measure natural oxygen and carbon dioxide levels in soil over time. For this reason, the background monitoring point should be reasonably close to the site, but not so close that the conditions are no longer representative. Considerable variations over time can occur, this background point should be measured during every sample event. Considerations for determining if a background point is representative include:
- If an on-site background point has minor levels of VOCs in it due to gas phase diffusion, that is acceptable, but if the levels are high, it may not be representative of true background conditions.
- Background oxygen and carbon dioxide levels vary with soil type and natural organic carbon content. For this reason, if at all possible, the soil types should be identical within the screened interval of all gas probes.
- The same depths should be used for all gas probes to allow comparison from one location to the next. If the depth to water varies greatly across the site, a certain amount of confusion in the data is likely. In this case, use professional judgement to provide the best data possible at a reasonable cost.

-- A.3. Enter this data for petroleum fuel sites. For other sites, provide the data that is most appropriate for the situation.

-- B. Cross sections are self explanatory, see the generic discussion at the end of the instructions (below) for other attachments.

Section IS-3, Other In Situ Soil Treatment Methods

-- A.2. Enter the information specified by the DNR for this method at this site.

Section ES-1, Ex Situ Soil Treatment Using Biopiles

-- A.3.a. The term "artificial nutrients" essentially means agricultural fertilizers or any other fertilizer products.

-- A.3.a.i. The types of fertilizers that are added should be listed here by chemical names, not by vendor trade names.

-- A.3.a.ii. List nitrogen content as N, list phosphorous content as phosphoric acid (P_2O_5). Note: Fertilizer ratings are based not on actual content of N, P and K, but on nitrogen (as N), phosphorous (as P_2O_5) and potassium (as K_2O).

-- A.4.c. See example calculations at the end of this set of instructions.

-- A.5. Enter this data for petroleum fuel sites. For other sites, provide the data that is most appropriate for the situation.

-- B. The figure is self explanatory. See the generic discussion at the end of the instructions (below) for instructions for the tables.

Section ES-2, Ex Situ Soil Treatment Using Landspreading/Thinspreading

-- B. A map to scale of the landspreading location including and landmarks or benchmarks. When samples have been collected, the distances to any landmarks or benchmarks should be indicated.

Section ES-3, Other Ex Situ Soil Treatment Methods

-- A.2. Enter the information specified by the DNR for this method at this site.

Section INS- 2, Figures, Graphs and Tables

When figures and graphs are specified, they should at a minimum contain the following information, or an explanation as to why the information is not necessary.

Maps. All maps should include the applicable information specified in s. NR 724.11(6), Wis. Adm. Code. In most cases, all information can be combined into a single map. There are times that a single map will have so much data that it is essentially unreadable. The consultant should use professional judgement when determining if a single map or multiple maps best portray the information necessary.

- Groundwater Contour Map Guidelines.

  -- List groundwater elevations for each measuring point on the map.
  -- Use the most recent data available.
  -- For water table maps, do not use data from deeper piezometers. If piezometer data is shown, use a different symbol for the piezometers than used for water table wells.
  -- If any wells are dry, indicate that on the map.
  -- If free product is present at site, shade the area where free product is estimated to be present.
  -- If groundwater is extracted with a pump and treat system, also denote plume capture zone.
  -- If in situ air sparging or soil venting is in use, specify on the map if the system was operating or shut down during the water level measurements. See the Subsection on water table maps in the *Guidance on Design, Installation and Operation of Ground Water Extraction and Product Recovery Systems* for more information on this topic.

- Groundwater Contaminant Distribution Map Guidelines.

  -- Only contaminants that exceed the ch. NR 140 ES or PAL should be shown on the map. When contaminants are above the PAL or ES at some data points and below the PAL or ES at other data points, list the data for all locations to portray which areas of the site meet ch. NR 140 groundwater quality standards.
  -- If a well is not sampled due to the presence of free product indicate "FREE PRODUCT" at those data points.
  -- If more than five contaminants exceed ch. NR 140 ES, only the five contaminants that require the greatest percent reduction to achieve ch. NR 140 ES or PAL should be shown on the map.
  -- Drawing isoconcentration lines is optional, unless specified for the site on a site specific basis.
  -- If the contamination has crossed the property line, that property line should be clearly denoted on the map.
  -- If in situ air sparging is used, water samples from ch. NR 141 type monitoring wells may not represent aquifer water quality as a whole. For that reason, groundwater data should be obtained from driven probes with no filter pack. If there are no driven probes and conventional ch. NR 141 monitoring wells are used, shut down the air injection system at least two weeks prior to collecting groundwater samples. See the *Guidance on Design, Installation and Operation of In Situ Air Sparging Systems* and the August 1995 update sheets for more information on this topic.

- Dissolved Oxygen Map Guidelines.

  -- Dissolved oxygen data may be shown on the contaminant concentration graphs or on a separate graph.
  -- Dissolved oxygen maps are optional for ground water extraction and product recovery systems.
  -- When in situ air sparging is used, monitoring points may not represent aquifer water quality as a whole. For that reason, groundwater data should be obtained from driven probes with no filter pack. If there are no driven probes and conventional ch. NR 141 monitoring wells are used, shut down the air injection system at least two weeks prior to collecting groundwater samples for DO. See the *Guidance on Design, Installation and Operation of In Situ Air Sparging Systems* and the August 1995 update sheets for more information on this topic.

- Well and Soil Sample Location Map Guidelines. Well and sample location maps for all methods should clearly indicate the location(s) of the release or the area where soil contamination historically has been highest. Also, if part of the contamination has been excavated, the pit boundaries.

  The recommended documentation for each remedial method is as follows:

  -- Groundwater Extraction and Product Recovery - separate well location maps should not be provided, instead the wells should be indicated on the groundwater contour and contaminant distribution maps.
  -- In Situ Air Sparging - the map should indicate all air injection wells, soil venting extraction wells, and all groundwater monitoring points.

Maps (Continued).

-- Natural Attenuation in Groundwater - separate well location maps should not be provided, instead the wells should be indicated on the groundwater contour maps.
-- Soil Venting - indicate all air extraction wells. If any gas probes are used to assess subsurface conditions in either contaminated zones or background locations, also indicate those data points with a different symbol. If soil samples have been collected recently to track progress, indicate those locations with the date of sampling noted on the map.
-- Natural Attenuation in Soil - show all monitoring points. Indicate which data points are background measuring points. If soil samples have been collected recently to track progress, indicate those locations with the date of sampling noted on the map. If the site was previously treated by soil venting, the locations of former air extraction wells should also be shown since these are areas where aggressive treatment has been applied. Also show area(s) of paved and unpaved ground surface. If pavement is significantly broken to allow significant water infiltration and air diffusion, map that area as broken pavement.

Graphs. All graphs that show time versus contaminant concentration or cumulative contaminant removal should be based on total time, not only operation time. All graphs that denote cumulative removal should use pounds of contaminant removed. Graphs should accurately show the time period(s) when the system was not operating. Plot time on the X axis, concentration or cumulative removal data on the Y axis.

• Time Versus Cumulative Removal. The recommended documentation for each remedial method is as follows:

-- Groundwater Extraction and Product Recovery - separate graphs should be used for free product recovery and dissolved phase recovery. A single graph for each phase is adequate, per well graphs are only necessary when specified by the Department on a site specific basis.
-- In Situ Air Sparging - no graph is necessary (removal data is shown on the graphs for the soil venting system).
-- Natural Attenuation in Groundwater - no graph is necessary.
-- Soil Venting - provide a graph of cumulative removal for total VOCs for the total system.
-- Natural Attenuation in Soil - no graph is necessary.
-- Ex Situ Soil Treatment Using Biopiles - Provide two graphs, one showing cumulative removal of total VOCs and a second graph showing total contaminant biodegradation over time.
-- Ex Situ Soil Treatment Using Landspreading/Thinspreading - no graphs are needed.

• Time Versus Contamination Concentration Graphs. Create graphs with contamination level on the y axis (semilog scale) and time on the x axis (linear scale). If free product is present, time versus contamination concentration graphs are not necessary.

The recommended documentation for each remedial method is as follows:

-- Groundwater Extraction and Product Recovery - graph the contaminant level over time for the groundwater that is extracted by the extraction system. List all compounds that exceed ch. NR 140 ES or PAL. If over five contaminants exceed ch. NR 140 ES or PAL, only list the five contaminants that exceed ch. NR 140 standards by the greatest percent.
-- In Situ Air Sparging - provide a graph for the single monitoring well that is most heavily contaminated. If over five contaminants exceed ch. NR 140 ES or PAL, only list the five contaminants that exceed ch. NR 140 standards by the greatest percent.
-- Natural Attenuation in Groundwater - provide a graph for all monitoring wells that contain any compounds that exceed ch. NR 140 standards. If over five contaminants exceed ch. NR 140 ES or PAL, only list the five contaminants that exceed ch. NR 140 standards by the greatest percent.
-- Soil Venting - provide a graph of contaminant concentration over time for the entire system for total VOCs. If any gas probes are used to assess subsurface conditions in either contaminated zones, also provide a graph with the data from the most heavily contaminated gas probe.
-- Natural Attenuation in Soil - provide a graph of contaminant concentration over time for total vapor phase VOCs as measured with an FID, oxygen, carbon dioxide and methane in an gas probe.
-- Ex Situ Soil Treatment Using Biopiles - no graph is necessary.
-- Ex Situ Soil Treatment Using Landspreading/Thinspreading - no graphs are needed.

Graphs (Continued).

- Graph of Contaminant Concentrations Versus Distance. If free product is present, a graph of contaminant concentrations versus distance is not necessary.

  The recommended documentation for each remedial method is as follows:

  -- Groundwater Extraction and Product Recovery - no graph is necessary.
  -- In Situ Air Sparging and Natural Attenuation in Groundwater - plot a graph with distance (on the x axis, linear scale) and contaminant concentrations (y axis, log scale) from the upgradient measurement point to the farthest downgradient data point along the centerline of the plume. List the same contaminants as shown on the Time Versus Contaminant Concentration Graphs. Clearly show the source area on the graph. If free product has been present, label the data points that previously contained free product. For in situ air sparging, see comments above about samples collected from conventional monitoring wells with filter packs versus driven probes.

Tables. Whenever possible, data over the life of the project should be listed.

The recommended documentation for each type of table is as follows:

- Groundwater Contaminant Chemistry Data.

  List:
  -- Contamination levels for all contaminants that exceed ch. NR 140 standards.
  -- Dissolved oxygen levels if applicable.
  -- Other biological parameters, if applicable (nitrogen, phosphorous, manganese, sulphate, iron, dissolved methane, redox potential, pH, microbial population size, etc.). See instructions for page GW-3 for more information on these parameters. Also, list the dates the samples were collected and the standard methods used to analyze the samples.

- Groundwater Biological Parameters.

  For natural attenuation in groundwater only, these measurements should be listed (if known) to provide information on biodegradation. This table is not necessary for free product extraction, groundwater extraction or in situ air sparging.

  Provide a table that includes any results of tests conducted for dissolved oxygen, nitrate, manganese, iron, sulphate, methane, redox potential, heterotrophic and/or hydrocarbon degrading microorganism populations. Identify on the table if the monitoring locations are upgradient, side gradient, downgradient, or within the plume, dates of sampling, and the analytical methods used for those parameters. Include all data for the life of the project. Since some of these tests are only conducted once, or periodically - enter "NS" in the table for not sampled for any parameters that were not sampled during a particular round of sampling.

  When asked to list the standard methods, list the method if a standard method exists. There are however some tests (for example dissolved methane) where there are no official standard laboratory or field methods. In this case the laboratory will have to create their own standard procedures. In these cases list the name of the laboratory and that laboratory's name for that test.

  Specific considerations for each parameter are as follows:

  -- Dissolved oxygen (mg/L). The most efficient mechanism for natural or enhanced biodegradation of petroleum compounds is aerobic biodegradation.
  -- Nitrate (mg/L as N). Nitrate (NO_3^{-1}) is a potential electron acceptor for denitrification and also serves as a nutrient for heterotrophic microbial populations to enhance aerobic biodegradation. Decreasing nitrate levels from background wells to wells within the plume are an indication of either aerobic or anaerobic biodegradation.
  -- Manganese as Mn^{+2} (mg/L). Manganese as Mn^{+4} is converted to soluble manganese as Mn^{+2} under anaerobic biodegradation. For this reason, total manganese analysis is not appropriate, only soluble manganese as Mn^{+2}. When the levels of soluble manganese are higher in wells within the plume than in background wells, that is an indication of anaerobic biodegradation.
  -- Iron as Fe^{+2} (mg/L). Iron as Fe^{+3} is converted to soluble iron as Fe^{+2} under anaerobic biodegradation. For this reason, total iron analysis is not appropriate, only soluble iron as Fe^{+2}. When the levels of soluble iron are higher in wells within the plume than in background wells, that is an indication of anaerobic biodegradation.

Tables (Continued).

-- Dissolved sulphate (SO_4^{-2}, mg/L). Sulphate (SO_4^{-2}) is a potential electron acceptor. Decreasing sulphate levels from background wells to wells within the plume are an indication of anaerobic biodegradation.
-- Dissolved methane (mg/L). Methane is produced under anaerobic conditions. Since background methane levels can usually be assumed to be zero, in most cases only measurements within the plume are used. Exceptions are when the natural soils have very high levels of TOC (for example peat), background methane levels are also warranted. When the contaminant is crude oil instead of a refined petroleum product, methane measurements may however cause erratic results. Significant amounts of methane may be created when other electron acceptors (NO_3^{-1}, Mn^{+4}, Fe^{+3} and SO_4^{-2}) are exhausted. For this reason, significant levels of methane are indicative of very very anaerobic conditions.
-- Redox potential (millivolts, include + or - sign). Redox potential is another measure of the level of aerobic/anaerobic conditions, however it is a much more sensitive measurement than DO at very low levels of DO.
-- Heterotrophic and hydrocarbon degrading microorganism populations (CFU/mL). Heterotrophic and specific hydrocarbon degrader population sizes should be listed for both background locations and locations within the plume, if there is information available. There is disagreement by many of the experts within the field as to the merits of sampling for this parameter. Refer to other DNR guidance documents on natural attenuation (or passive bioremediation) for more information on this topic.

• Soil Gas Data.

The recommended documentation for each remedial method is as follows:

-- When natural attenuation in soil is used, provide a graph of all soil gas readings over time for every data point.
-- When soil venting is used, if a gas probe is used to assess subsurface conditions over time in a location where air is not extracted, provide that data in a table.

• System Operational Data.

The recommended documentation for each remedial method is as follows:

-- Groundwater Extraction and Product Recovery:

◦ Well by well flow rates in gpm for each extraction well. If a well is off line, list flow rate as "ZERO." Clearly denote on the table periods of system shutdown.

-- In Situ Air Sparging:

◦ Air pressure and injection flow rates in scfm for each well. If a well is off line, list flow rate as "ZERO." Clearly denote on the table periods of system shutdown.

-- Natural Attenuation in Groundwater - no table needed.

-- Soil Venting:

◦ Vacuum readings and extraction rates in scfm for each well. If a well is off line, list flow rate as "ZERO." Clearly denote on the table periods of system shutdown.
◦ Air concentrations in ppm_V or in mg/L for total VOCs.
◦ Total system contaminants removed in pounds and the pounds per day removal rate.

-- Natural Attenuation in Soil - no table needed.

Tables (Continued).

-- Ex Situ Soil Treatment Using Biopiles:

- If forced air ventilation is used:
  - System extraction rates in scfm.
  - Air concentrations in ppm_V for total VOCs.
  - Total system contaminants removed in pounds and the pounds per day removal rate.
  - Temperature.
- If passive ventilation is used, a table of temperatures.

-- Ex Situ Soil Treatment Using Landspreading/Thinspreading - no table is needed.

Acronyms and Abbreviations:

CFU/mL	colony forming units per milliliter
cm/sec	centimeters per second
DATCP	Department of Agriculture, Trade and Consumer Protection
DCOM	Department of Commerce
DNR	Department of Natural Resources
DO	Dissolved Oxygen
DRO	Diesel Range Organics
ES	Enforcement Standards in NR 140
FID	Flame Ionization Detector
ft/yr	feet per year
gpd	gallons per day
gpm	gallons per minute
GRO	Gasoline Rage Organics
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
NR	prefix for rules established by the DNR
P.E.	Registered Professional Engineer
P.G.	Registered Professional Geologist
PAL	Preventative Action Limit in NR 140
PECFA	the state sponsored cleanup fund for certain petroleum contaminated sites
ppm_V	parts per million by volume (vapor phase only)
scfm	standard cubic feet per minute
TOC	Total Organic Carbon
USCS	Unified Soil Classification System
USDA	United States Department of Agriculture
µg/kg	micrograms per kilogram
µg/mL	micrograms per milliliter
VOC	Volatile Organic Compounds
Y/N	Yes or No

Section INS-3, Example Calculations for Determining the Biodegradation Rate on Forced Air Biopiles

Important Note: This page uses a nonproportional font and characters that are unique to WordPerfect. If the user received this document electronically, this page may need to be converted to a different font for the formulas to print correctly. The original font used for this page was prestige elite with 16.67 characters per inch.

Assumptions:

- The measurements at the stack are as follows:
  - -- Average flow rate is 20 scfm.
  - -- Average oxygen level extracted from biopile is 14.0 percent by volume.
  - -- Average carbon dioxide level extracted from biopile is 3.5 percent by volume or 35,000 ppm_V.
- Atmospheric air contains 21 percent oxygen by volume and 400 ppm_V (or 0.04 percent) carbon dioxide. (Note: On each site visit, the consultant should check atmospheric air to assure that the instrument is spanned correctly.)
- Atmospheric air weight 0.0763 pounds per cubic foot at standard temperature and pressure (Gibbs, 1971).
- Average molecular weight of air is 28.97 (Gibbs, 1971) which is rounded off to 29, molecular weight of O_2 is 32, molecular weight of CO_2 is 44.
- For every pound of contaminants biodegraded, 3.3 pounds of oxygen is utilized and up to 3.2 pounds of carbon dioxide is generated.
  - -- The stoichiometry of aerobic benzene biodegradation can be described as follows:

    $C_6H_6 + 7.5\ O_2$ -- -- --> $6\ CO_2 + 3\ H_2O$

    Based on this, benzene biodegradation requires that 3.07 pounds of oxygen are utilized to fully oxidize one pound of benzene, assuming no electron acceptors other than oxygen are used. Assuming no biomass is produced and no geochemical reactions consume carbon dioxide, 3.38 pounds of carbon dioxide is generated from one pound of benzene.
  - -- The stoichiometry of aerobic hexane biodegradation can be described as follows:

    $C_6H_{14} + 9.5\ O_2$ -- -- --> $6\ CO_2 + 7\ H_2O$

    Based on the above assumptions, hexane biodegradation requires 3.52 pounds of oxygen and generates up to 3.06 pounds of carbon dioxide.

  Other hydrocarbons also require a similar ratio of oxygen for aerobic biodegradation. For purposes of this guidance it is assumed that a pound of petroleum contamination requires 3.3 pounds of oxygen and generates up to 3.2 pounds of carbon dioxide and 1.1 pounds of water in the biodegradation reaction.

Calculations:

Oxygen utilization rate:

$$(0.21 - 0.14) * \frac{32}{29} * 0.0763 \frac{\text{pounds}}{\text{ft}^3} * 20 \frac{\text{ft}^3}{\text{min}} * 60 \frac{\text{min}}{\text{hour}} = 7.07 \frac{\text{pounds}}{\text{hour}}$$

Carbon dioxide production rate:

$$(0.035 - 0.0004) * \frac{44}{29} * 0.0763 \frac{\text{pounds}}{\text{ft}^3} * 20 \frac{\text{ft}^3}{\text{min}} * 60 \frac{\text{min}}{\text{hour}} = 4.81 \frac{\text{pounds}}{\text{hour}}$$

Calculations (Continued):

Biodegradation rate based on oxygen:

7.07 / 3.3 = 2.1 pounds per hour

Biodegradation rate based on carbon dioxide:

4.81 / 3.2 = 1.5 pounds per hour

Since the biodegradation rate is based on oxygen utilization and/or carbon dioxide generation, it is a measure of the overall biodegradation rate of all carbon sources, including natural organic carbon and any organic materials that were added. For this reason, the biodegradation rate is not specific to hydrocarbons and it is likely that the measured biodegradation rate will overestimate the rate of contaminant reduction.

Commonly the measured biodegradation rate based on carbon dioxide generation is less than the rate estimated with oxygen. Because of geochemical interferences and biomass formation, estimates based on carbon dioxide measurements are often low. If however the biodegradation rate estimate based on carbon dioxide is significantly greater than the estimate based on oxygen, it is likely that there is a measurement or calculation error. In this way, the carbon dioxide measurements can be used to double check the oxygen measurements and calculations.

Attachment 3

June 2019 WPDES DMR Submittal

Wastewater Discharge Monitoring Short Report

For DNR Use Only

Facility Name : MADISON KIPP CORPORATION
Contact Address : 708 Heartland Trail, Suite 3000
Madison, WI 53717
Facility Contact : Andrew Stehn, Project Engineer
Phone Number : 608-826-3665
Reporting Period : 04/01/2019 - 06/30/2019
Form Due Date : 07/21/2019
Permit Number : **0046566**

Date Received:	
DOC:	424164
FIN:	7960
FID:	113125320
Region:	South Central Region
Permit Drafter:	Trevor J Moen
Reviewer:	Christopher A Dietrich
Office:	Milwaukee

Sample Point	Parameter #	Parameter	Date Sample	Sample Type	Sample Results	Units	Limit Type	Limit	LOD	LOQ	QC Exceed?	Lab Certification
001	40	Benzene	06/07/2019	GRAB	<0.15	ug/L	Monthly Avg	50(0)	0.15	0.50	N	999580010
001	54	BETX, Total	06/07/2019	GRAB	0.16	ug/L	Monthly Avg	750(0)			N	999580010
001	393	PAHs	06/07/2019	GRAB	0.00019	ug/L	Monthly Avg	0.10(0)			N	998020430
001	44	Benzo(a)pyrene	06/07/2019	GRAB	<0.026	ug/L	Monthly Avg	0.10(0)	0.026	0.051	N	998020430
001	307	Naphthalene	06/07/2019	GRAB	0.095	ug/L	Monthly Avg	70(0)	0.051	0.10	N	998020430
001	80	Bromoform	06/07/2019	GRAB	<0.45	ug/L	Monthly Avg	120(0)	0.45	1.0	N	999580010
001	93	Carbon tetrachloride	06/07/2019	GRAB	<0.38	ug/L		*****	0.38	1.0	N	999580010
001	118	Chloroform	06/07/2019	GRAB	<0.37	ug/L	Monthly Avg	120(0)	0.37	2.0	N	999580010
001	174	Dichlorobromo- methane (bromo-	06/07/2019	GRAB	<0.37	ug/L	Monthly Avg	120(0)	0.37	1.0	N	999580010
001	570	1,2-Dichloro- ethane	06/07/2019	GRAB	<0.39	ug/L	Monthly Avg	180(0)	0.39	1.0	N	999580010
001	558	1,1-Dichloro- ethylene	06/07/2019	GRAB	<0.39	ug/L	Monthly Avg	50(0)	0.39	1.0	N	999580010
001	82	Methyl bromide	06/07/2019	GRAB	<0.65	ug/L	Monthly Avg	120(0)	0.65	3.0	N	999580010
001	120	Chloromethane	06/07/2019	GRAB	<0.32	ug/L	Monthly Avg	120(0)	0.32	1.0	N	999580010
001	565	1,1,2,2-Tetrachloro- ethane	06/07/2019	GRAB	<0.40	ug/L	Monthly Avg	50(0)	0.40	1.0	N	999580010
001	490	Tetrachloroethylene	06/07/2019	GRAB	11	ug/L	Monthly Avg	50(0)	0.37	1.0	N	999580010
001	563	1,1,2-Trichloro- ethane	06/07/2019	GRAB	<0.35	ug/L	Monthly Avg	50(0)	0.35	1.0	N	999580010
001	561	1,1,1-Trichloro- ethane	06/07/2019	GRAB	<0.38	ug/L	Monthly Avg	50(0)	0.38	1.0	N	999580010
001	508	Trichloro- ethylene	06/07/2019	GRAB	2.7	ug/L	Monthly Avg	50(0)	0.16	0.50	N	999580010
001	517	Vinyl chloride	06/07/2019	GRAB	<0.20	ug/L	Monthly Avg	10(0)	0.20	1.0	N	999580010

Wastewater Discharge Monitoring Short Report

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

Potassium Permanganate: Absent (Parameter visually monitored by TRC for neutralization and photo documentation can be provided upon request).

Toluene was the only reported BTEX parameter.

Phenanthrene was the only reported Group 10 PAH parameter and the noted concentration was calculated using the Toxicity Equivalent Factor as outlined in Appendix C of the WPDES permit.

The GETS was shut down for cleaning and maintenance between June 6 and 7, 2019. Total suspended solids were analyzed following the cleaning process and results are noted in the June 2019 Long Report.

Laboratory Quality Control Comments

The concentration of Toluene was reported less than the laboratory reporting limit but greater than or equal to the laboratory method detection limit and the concentration is an approximate value.

The concentration of Naphthalene was reported less than the laboratory reporting limit but greater than or equal to the laboratory method detection limit and the concentration is an approximate value. This compound was also reported in the method blank sample.

Due to a laboratory error, the Group 10 PAHs, Naphthalene, and Benzo(a)pyrene were prepped and analyzed outside of the sample hold time. This was discussed with Alan Hopfensperger (WDNR) on 6/24/2019, and no additional sampling was requested or required. Phenanthrene was reported in the method blank sample.

Submitted by astehn on 07/21/2019 1:14:27 PM

Wastewater Discharge Monitoring Long Report

For DNR Use Only

Facility Name: MADISON KIPP CORPORATION
Contact Address: 708 Heartland Trail, Suite 3000
Madison, WI 53717
Facility Contact: Andrew Stehn, Project Engineer
Phone Number: 608-826-3665
Reporting Period: 06/01/2019 - 06/30/2019
Form Due Date: 07/21/2019
Permit Number: 0046566

Date Received:	
DOC:	423566
FIN:	7960
FID:	113125320
Region:	South Central Region
Permit Drafter:	Trevor J Moen
Reviewer:	Christopher A Dietrich
Office:	Milwaukee

	Sample Point	001	001	001
	Description	Surface Water Discharge	Surface Water Discharge	Surface Water Discharge
	Parameter	211	918	457
	Description	Flow Rate	Potassium Permanganate	Suspended Solids, Total
	Units	gpd	mg/L	mg/L
	Sample Type	ESTIMATED	GRAB	GRAB
	Frequency	DAILY	MONTHLY	PER OCCURNCE
Sample Results	Day 1	57600		
	2	57600		
	3	57600		
	4	57600		
	5	57600		
	6	28240		
	7	32327		<1.9
	8	57600		
	9	57600		
	10	57600		
	11	57600		
	12	57600		
	13	57600		
	14	57600		
	15	57600		
	16	57600		
	17	57600		
	18	57600		
	19	57600		
	20	57600		
	21	57600		
	22	57600		
	23	57600		
	24	57600		
	25	57600		
	26	57600		
	27	57600		
	28	57600		
	29	57600		
	30	57600		
	31			

	Sample Point	001	001	001
	Description	Surface Water Discharge	Surface Water Discharge	Surface Water Discharge
	Parameter	211	918	457
	Description	Flow Rate	Potassium Permanganate	Suspended Solids, Total
	Units	gpd	mg/L	mg/L
Summary Values	**Monthly Avg**	55778.9		0
	Daily Max	57600		<1.9
	Daily Min	28240		<1.9
Limit(s) in Effect	**Daily Max**			40 / 0
QA/QC Information	**LOD**			1.9
	LOQ			5
	QC Exceedance	N	N	N
	Lab Certification			999580010

Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.)

General Remarks

Potassium Permanganate: Absent (Parameter visually monitored by TRC for neutralization and photo documentation can be provided upon request.

The GETS air stripper was cleaned during the month of June and a TSS sample was collected following the system restart of the system.

The GETS was shutdown between June 6 and June 7, 2019 for cleaning and maintenance.

Laboratory Quality Control Comments

Submitted by astehn on 07/21/2019 1:11:53 PM

Attachment 4

Quarterly GETS Influent and Effluent Groundwater and Vapor Laboratory Analytical Results

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-159634-1
Client Project/Site: MadisonKipp - GETS 2019

For:
TRC Environmental Corporation.
708 Heartland Trail
Suite 3000
Madison, Wisconsin 53717

Attn: Andrew Stehn

Sandie Fredrick

Authorized for release by:
3/13/2019 12:35:04 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 500-159634-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-159634-1

Comments
No additional comments.

Receipt
The samples were received on 3/7/2019 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was -0.9º C.

GC/MS VOA
The following sample was diluted to bring the concentration of target analytes within the calibration range: Influent (500-159634-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 625 SIM: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 490-580007 and analytical batch 490-580268.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: MadisonKipp - GETS 2019

TestAmerica Job ID: 500-159634-1

Client Sample ID: Influent — Lab Sample ID: 500-159634-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	190		1.0	0.33	ug/L	2		624	Total/NA
Tetrachloroethene - DL	1600		20	7.4	ug/L	20		624	Total/NA

Client Sample ID: Effluent — Lab Sample ID: 500-159634-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	14		1.0	0.37	ug/L	1		624	Total/NA
Trichloroethene	3.7		0.50	0.16	ug/L	1		624	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 500-159634-3

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: TRC Environmental Corporation.
Project/Site: MadisonKipp - GETS 2019

TestAmerica Job ID: 500-159634-1

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL CHI
625 SIM	Semivolatile Organic Compounds GC/MS (SIM)	40CFR136A	TAL NSH
625	Liquid-Liquid Extraction	40CFR136A	TAL NSH

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Sample Summary

Client: TRC Environmental Corporation.
Project/Site: MadisonKipp - GETS 2019

TestAmerica Job ID: 500-159634-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-159634-1	Influent	Water	03/06/19 15:00	03/07/19 09:30
500-159634-2	Effluent	Water	03/06/19 14:45	03/07/19 09:30
500-159634-3	Trip Blank	Water	03/06/19 00:00	03/07/19 09:30

Client Sample ID: Influent

Date Collected: 03/06/19 15:00
Date Received: 03/07/19 09:30

Lab Sample ID: 500-159634-1

Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.29		1.0	0.29	ug/L			03/09/19 01:38	2
Bromoform	<0.89		2.0	0.89	ug/L			03/09/19 01:38	2
Carbon tetrachloride	<0.77		2.0	0.77	ug/L			03/09/19 01:38	2
Chloroform	<0.74		4.0	0.74	ug/L			03/09/19 01:38	2
Chloromethane	<0.64		2.0	0.64	ug/L			03/09/19 01:38	2
Dichlorobromomethane	<0.74		2.0	0.74	ug/L			03/09/19 01:38	2
1,2-Dichloroethane	<0.78		2.0	0.78	ug/L			03/09/19 01:38	2
1,1-Dichloroethene	<0.78		2.0	0.78	ug/L			03/09/19 01:38	2
Ethylbenzene	<0.37		1.0	0.37	ug/L			03/09/19 01:38	2
Methyl bromide	<1.3		6.0	1.3	ug/L			03/09/19 01:38	2
1,1,2,2-Tetrachloroethane	<0.80		2.0	0.80	ug/L			03/09/19 01:38	2
Toluene	<0.30		1.0	0.30	ug/L			03/09/19 01:38	2
1,1,1-Trichloroethane	<0.76		2.0	0.76	ug/L			03/09/19 01:38	2
1,1,2-Trichloroethane	<0.70		2.0	0.70	ug/L			03/09/19 01:38	2
Trichloroethene	**190**		1.0	0.33	ug/L			03/09/19 01:38	2
Vinyl chloride	<0.41		2.0	0.41	ug/L			03/09/19 01:38	2
Xylenes, Total	<0.80		2.0	0.80	ug/L			03/09/19 01:38	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*71 - 120*		*03/09/19 01:38*	*2*
1,2-Dichloroethane-d4 (Surr)	*109*		*71 - 127*		*03/09/19 01:38*	*2*
Toluene-d8 (Surr)	*90*		*75 - 120*		*03/09/19 01:38*	*2*

Method: 624 - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**1600**		20	7.4	ug/L			03/09/19 02:03	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*71 - 120*		*03/09/19 02:03*	*20*
1,2-Dichloroethane-d4 (Surr)	*102*		*71 - 127*		*03/09/19 02:03*	*20*
Toluene-d8 (Surr)	*90*		*75 - 120*		*03/09/19 02:03*	*20*

Method: 625 SIM - Semivolatile Organic Compounds GC/MS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	<0.024		0.048	0.024	ug/L		03/11/19 09:56	03/12/19 21:11	1
Benzo[a]pyrene	<0.024		0.048	0.024	ug/L		03/11/19 09:56	03/12/19 21:11	1
Benzo[b]fluoranthene	<0.024		0.048	0.024	ug/L		03/11/19 09:56	03/12/19 21:11	1
Benzo[g,h,i]perylene	<0.048		0.096	0.048	ug/L		03/11/19 09:56	03/12/19 21:11	1
Benzo[k]fluoranthene	<0.048		0.096	0.048	ug/L		03/11/19 09:56	03/12/19 21:11	1
Chrysene	<0.048		0.096	0.048	ug/L		03/11/19 09:56	03/12/19 21:11	1
Dibenz(a,h)anthracene	<0.024		0.048	0.024	ug/L		03/11/19 09:56	03/12/19 21:11	1
Fluoranthene	<0.048		0.096	0.048	ug/L		03/11/19 09:56	03/12/19 21:11	1
Indeno[1,2,3-cd]pyrene	<0.024		0.048	0.024	ug/L		03/11/19 09:56	03/12/19 21:11	1
Naphthalene	<0.048		0.096	0.048	ug/L		03/11/19 09:56	03/12/19 21:11	1
Phenanthrene	<0.048		0.096	0.048	ug/L		03/11/19 09:56	03/12/19 21:11	1
Pyrene	<0.048		0.096	0.048	ug/L		03/11/19 09:56	03/12/19 21:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*56*		*27 - 120*	*03/11/19 09:56*	*03/12/19 21:11*	*1*
Terphenyl-d14	*90*		*13 - 120*	*03/11/19 09:56*	*03/12/19 21:11*	*1*

Client Sample ID: Influent

Date Collected: 03/06/19 15:00
Date Received: 03/07/19 09:30

Lab Sample ID: 500-159634-1
Matrix: Water

Method: 625 SIM - Semivolatile Organic Compounds GC/MS (SIM) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	*84*		*10 - 120*	*03/11/19 09:56*	*03/12/19 21:11*	*1*

Client Sample ID: Effluent

Date Collected: 03/06/19 14:45
Date Received: 03/07/19 09:30

Lab Sample ID: 500-159634-2
Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			03/09/19 02:29	1
Bromoform	<0.45		1.0	0.45	ug/L			03/09/19 02:29	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			03/09/19 02:29	1
Chloroform	<0.37		2.0	0.37	ug/L			03/09/19 02:29	1
Chloromethane	<0.32		1.0	0.32	ug/L			03/09/19 02:29	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			03/09/19 02:29	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			03/09/19 02:29	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			03/09/19 02:29	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			03/09/19 02:29	1
Methyl bromide	<0.65		3.0	0.65	ug/L			03/09/19 02:29	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			03/09/19 02:29	1
Tetrachloroethene	**14**		1.0	0.37	ug/L			03/09/19 02:29	1
Toluene	<0.15		0.50	0.15	ug/L			03/09/19 02:29	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			03/09/19 02:29	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			03/09/19 02:29	1
Trichloroethene	**3.7**		0.50	0.16	ug/L			03/09/19 02:29	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			03/09/19 02:29	1
Xylenes, Total	<0.40		1.0	0.40	ug/L			03/09/19 02:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*92*		*71 - 120*		*03/09/19 02:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*71 - 127*		*03/09/19 02:29*	*1*
Toluene-d8 (Surr)	*89*		*75 - 120*		*03/09/19 02:29*	*1*

Method: 625 SIM - Semivolatile Organic Compounds GC/MS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	<0.024		0.049	0.024	ug/L		03/11/19 09:56	03/12/19 21:31	1
Benzo[a]pyrene	<0.024		0.049	0.024	ug/L		03/11/19 09:56	03/12/19 21:31	1
Benzo[b]fluoranthene	<0.024		0.049	0.024	ug/L		03/11/19 09:56	03/12/19 21:31	1
Benzo[g,h,i]perylene	<0.049		0.098	0.049	ug/L		03/11/19 09:56	03/12/19 21:31	1
Benzo[k]fluoranthene	<0.049		0.098	0.049	ug/L		03/11/19 09:56	03/12/19 21:31	1
Chrysene	<0.049		0.098	0.049	ug/L		03/11/19 09:56	03/12/19 21:31	1
Dibenz(a,h)anthracene	<0.024		0.049	0.024	ug/L		03/11/19 09:56	03/12/19 21:31	1
Fluoranthene	<0.049		0.098	0.049	ug/L		03/11/19 09:56	03/12/19 21:31	1
Indeno[1,2,3-cd]pyrene	<0.024		0.049	0.024	ug/L		03/11/19 09:56	03/12/19 21:31	1
Naphthalene	<0.049		0.098	0.049	ug/L		03/11/19 09:56	03/12/19 21:31	1
Phenanthrene	<0.049		0.098	0.049	ug/L		03/11/19 09:56	03/12/19 21:31	1
Pyrene	<0.049		0.098	0.049	ug/L		03/11/19 09:56	03/12/19 21:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	*43*		*27 - 120*	*03/11/19 09:56*	*03/12/19 21:31*	*1*
Terphenyl-d14	*69*		*13 - 120*	*03/11/19 09:56*	*03/12/19 21:31*	*1*

Client Sample ID: Effluent

Lab Sample ID: 500-159634-2

Date Collected: 03/06/19 14:45

Matrix: Water

Date Received: 03/07/19 09:30

Method: 625 SIM - Semivolatile Organic Compounds GC/MS (SIM) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	*62*		*10 - 120*	*03/11/19 09:56*	*03/12/19 21:31*	*1*

Client Sample ID: Trip Blank

Lab Sample ID: 500-159634-3

Date Collected: 03/06/19 00:00

Matrix: Water

Date Received: 03/07/19 09:30

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			03/08/19 22:35	1
Bromoform	<0.45		1.0	0.45	ug/L			03/08/19 22:35	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			03/08/19 22:35	1
Chloroform	<0.37		2.0	0.37	ug/L			03/08/19 22:35	1
Chloromethane	<0.32		1.0	0.32	ug/L			03/08/19 22:35	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			03/08/19 22:35	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			03/08/19 22:35	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			03/08/19 22:35	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			03/08/19 22:35	1
Methyl bromide	<0.65		3.0	0.65	ug/L			03/08/19 22:35	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			03/08/19 22:35	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			03/08/19 22:35	1
Toluene	<0.15		0.50	0.15	ug/L			03/08/19 22:35	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			03/08/19 22:35	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			03/08/19 22:35	1
Trichloroethene	<0.16		0.50	0.16	ug/L			03/08/19 22:35	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			03/08/19 22:35	1
Xylenes, Total	<0.40		1.0	0.40	ug/L			03/08/19 22:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*90*		*71 - 120*		*03/08/19 22:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*71 - 127*		*03/08/19 22:35*	*1*
Toluene-d8 (Surr)	*91*		*75 - 120*		*03/08/19 22:35*	*1*

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: MadisonKipp - GETS 2019

TestAmerica Job ID: 500-159634-1

GC/MS VOA

Analysis Batch: 475305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-159634-1	Influent	Total/NA	Water	624	
500-159634-1 - DL	Influent	Total/NA	Water	624	
500-159634-2	Effluent	Total/NA	Water	624	
500-159634-3	Trip Blank	Total/NA	Water	624	
MB 500-475305/28	Method Blank	Total/NA	Water	624	
LCS 500-475305/26	Lab Control Sample	Total/NA	Water	624	

GC/MS Semi VOA

Prep Batch: 580007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-159634-1	Influent	Total/NA	Water	625	
500-159634-2	Effluent	Total/NA	Water	625	
MB 490-580007/1-A	Method Blank	Total/NA	Water	625	
LCS 490-580007/2-A	Lab Control Sample	Total/NA	Water	625	

Analysis Batch: 580268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-159634-1	Influent	Total/NA	Water	625 SIM	580007
500-159634-2	Effluent	Total/NA	Water	625 SIM	580007
MB 490-580007/1-A	Method Blank	Total/NA	Water	625 SIM	580007
LCS 490-580007/2-A	Lab Control Sample	Total/NA	Water	625 SIM	580007

Surrogate Summary

Client: TRC Environmental Corporation.
Project/Site: MadisonKipp - GETS 2019

TestAmerica Job ID: 500-159634-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DCA	TOL
Lab Sample ID	Client Sample ID	(71-120)	(71-127)	(75-120)
500-159634-1	Influent	90	109	90
500-159634-1 - DL	Influent	90	102	90
500-159634-2	Effluent	92	106	89
500-159634-3	Trip Blank	90	104	91
LCS 500-475305/26	Lab Control Sample	94	106	90
MB 500-475305/28	Method Blank	89	107	90

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 625 SIM - Semivolatile Organic Compounds GC/MS (SIM)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		NBZ	TPHL	FBP
Lab Sample ID	Client Sample ID	(27-120)	(13-120)	(10-120)
500-159634-1	Influent	56	90	84
500-159634-2	Effluent	43	69	62
LCS 490-580007/2-A	Lab Control Sample	69	97	91
MB 490-580007/1-A	Method Blank	66	93	93

Surrogate Legend

NBZ = Nitrobenzene-d5
TPHL = Terphenyl-d14
FBP = 2-Fluorobiphenyl (Surr)

Method: 624 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-475305/28
Matrix: Water
Analysis Batch: 475305

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			03/08/19 22:09	1
Bromoform	<0.45		1.0	0.45	ug/L			03/08/19 22:09	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			03/08/19 22:09	1
Chloroform	<0.37		2.0	0.37	ug/L			03/08/19 22:09	1
Chloromethane	<0.32		1.0	0.32	ug/L			03/08/19 22:09	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			03/08/19 22:09	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			03/08/19 22:09	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			03/08/19 22:09	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			03/08/19 22:09	1
Methyl bromide	<0.65		3.0	0.65	ug/L			03/08/19 22:09	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			03/08/19 22:09	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			03/08/19 22:09	1
Toluene	<0.15		0.50	0.15	ug/L			03/08/19 22:09	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			03/08/19 22:09	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			03/08/19 22:09	1
Trichloroethene	<0.16		0.50	0.16	ug/L			03/08/19 22:09	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			03/08/19 22:09	1
Xylenes, Total	<0.40		1.0	0.40	ug/L			03/08/19 22:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*71 - 120*		*03/08/19 22:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*71 - 127*		*03/08/19 22:09*	*1*
Toluene-d8 (Surr)	*90*		*75 - 120*		*03/08/19 22:09*	*1*

Lab Sample ID: LCS 500-475305/26
Matrix: Water
Analysis Batch: 475305

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	52.3		ug/L		105	37 - 151
Bromoform	50.0	59.5		ug/L		119	45 - 169
Carbon tetrachloride	50.0	53.5		ug/L		107	70 - 140
Chloroform	50.0	51.8		ug/L		104	51 - 138
Chloromethane	50.0	41.0		ug/L		82	10 - 273
Dichlorobromomethane	50.0	56.2		ug/L		112	35 - 155
1,2-Dichloroethane	50.0	54.8		ug/L		110	49 - 155
1,1-Dichloroethene	50.0	50.9		ug/L		102	10 - 234
Ethylbenzene	50.0	48.2		ug/L		96	37 - 162
Methyl bromide	50.0	50.5		ug/L		101	10 - 242
m&p-Xylene	50.0	45.1		ug/L		90	
o-Xylene	50.0	45.6		ug/L		91	
1,1,2,2-Tetrachloroethane	50.0	50.1		ug/L		100	46 - 157
Tetrachloroethene	50.0	47.9		ug/L		96	64 - 148
Toluene	50.0	45.6		ug/L		91	47 - 150
1,1,1-Trichloroethane	50.0	51.3		ug/L		103	52 - 162
1,1,2-Trichloroethane	50.0	49.6		ug/L		99	52 - 150
Trichloroethene	50.0	53.3		ug/L		107	71 - 157
Vinyl chloride	50.0	39.5		ug/L		79	10 - 251

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*94*		*71 - 120*
1,2-Dichloroethane-d4 (Surr)	*106*		*71 - 127*
Toluene-d8 (Surr)	*90*		*75 - 120*

Method: 625 SIM - Semivolatile Organic Compounds GC/MS (SIM)

Lab Sample ID: MB 490-580007/1-A
Matrix: Water
Analysis Batch: 580268

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 580007

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	<0.025		0.050	0.025	ug/L		03/11/19 09:55	03/12/19 17:47	1
Benzo[a]pyrene	<0.025		0.050	0.025	ug/L		03/11/19 09:55	03/12/19 17:47	1
Benzo[b]fluoranthene	<0.025		0.050	0.025	ug/L		03/11/19 09:55	03/12/19 17:47	1
Benzo[g,h,i]perylene	<0.050		0.10	0.050	ug/L		03/11/19 09:55	03/12/19 17:47	1
Benzo[k]fluoranthene	<0.050		0.10	0.050	ug/L		03/11/19 09:55	03/12/19 17:47	1
Chrysene	<0.050		0.10	0.050	ug/L		03/11/19 09:55	03/12/19 17:47	1
Dibenz(a,h)anthracene	<0.025		0.050	0.025	ug/L		03/11/19 09:55	03/12/19 17:47	1
Fluoranthene	<0.050		0.10	0.050	ug/L		03/11/19 09:55	03/12/19 17:47	1
Indeno[1,2,3-cd]pyrene	<0.025		0.050	0.025	ug/L		03/11/19 09:55	03/12/19 17:47	1
Naphthalene	<0.050		0.10	0.050	ug/L		03/11/19 09:55	03/12/19 17:47	1
Phenanthrene	<0.050		0.10	0.050	ug/L		03/11/19 09:55	03/12/19 17:47	1
Pyrene	<0.050		0.10	0.050	ug/L		03/11/19 09:55	03/12/19 17:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	*66*		*27 - 120*	*03/11/19 09:55*	*03/12/19 17:47*	*1*
Terphenyl-d14	*93*		*13 - 120*	*03/11/19 09:55*	*03/12/19 17:47*	*1*
2-Fluorobiphenyl (Surr)	*93*		*10 - 120*	*03/11/19 09:55*	*03/12/19 17:47*	*1*

Lab Sample ID: LCS 490-580007/2-A
Matrix: Water
Analysis Batch: 580268

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 580007

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]anthracene	8.00	7.49		ug/L		94	33 - 143
Benzo[a]pyrene	8.00	7.54		ug/L		94	17 - 163
Benzo[b]fluoranthene	8.00	7.34		ug/L		92	24 - 159
Benzo[g,h,i]perylene	8.00	6.78		ug/L		85	10 - 219
Benzo[k]fluoranthene	8.00	7.99		ug/L		100	11 - 162
Chrysene	8.00	7.45		ug/L		93	17 - 168
Dibenz(a,h)anthracene	8.00	6.32		ug/L		79	10 - 227
Fluoranthene	8.00	7.72		ug/L		96	26 - 137
Indeno[1,2,3-cd]pyrene	8.00	7.28		ug/L		91	10 - 171
Naphthalene	8.00	7.37		ug/L		92	21 - 133
Phenanthrene	8.00	7.61		ug/L		95	54 - 120
Pyrene	8.00	6.66		ug/L		83	52 - 115

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5	*69*		*27 - 120*
Terphenyl-d14	*97*		*13 - 120*
2-Fluorobiphenyl (Surr)	*91*		*10 - 120*

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: MadisonKipp - GETS 2019

TestAmerica Job ID: 500-159634-1

Client Sample ID: Influent

Lab Sample ID: 500-159634-1

Date Collected: 03/06/19 15:00

Matrix: Water

Date Received: 03/07/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		2	475305	03/09/19 01:38	JDD	TAL CHI
Total/NA	Analysis	624	DL	20	475305	03/09/19 02:03	JDD	TAL CHI
Total/NA	Prep	625			580007	03/11/19 09:56	MCO	TAL NSH
Total/NA	Analysis	625 SIM		1	580268	03/12/19 21:11	KJP	TAL NSH

Client Sample ID: Effluent

Lab Sample ID: 500-159634-2

Date Collected: 03/06/19 14:45

Matrix: Water

Date Received: 03/07/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	475305	03/09/19 02:29	JDD	TAL CHI
Total/NA	Prep	625			580007	03/11/19 09:56	MCO	TAL NSH
Total/NA	Analysis	625 SIM		1	580268	03/12/19 21:31	KJP	TAL NSH

Client Sample ID: Trip Blank

Lab Sample ID: 500-159634-3

Date Collected: 03/06/19 00:00

Matrix: Water

Date Received: 03/07/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	475305	03/08/19 22:35	JDD	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Accreditation/Certification Summary

Client: TRC Environmental Corporation.
Project/Site: MadisonKipp - GETS 2019

TestAmerica Job ID: 500-159634-1

Laboratory: TestAmerica Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	999580010	08-31-19

Laboratory: TestAmerica Nashville

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	998020430	08-31-19

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

Lab Job #: 500-159634

Chain of Custody Number:

Page 1 of 1

Temperature °C of Cooler: -0.9

(optional) Report To		(optional) Bill To	
Contact:	Andrew Stehn	Contact:	
Company:	TRC	Company:	Same as reporting
Address:	708 Heartland Trail Suite 3000	Address:	
Address:	Madison, WI 53717	Address:	
Phone:	608-826-3665	Phone:	
Fax:	608-826-3941	Fax:	
E-Mail:	astehn@trcsolutions.com	PO#/Reference#	132938

Client	TRC/MKC	Client Project #	323372
Project Name	MKC GETS		
Project Location/State	WI	Lab Project #	
Sampler	Ben Wachholz	Lab PM	

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: VOCs (see attached table)	Parameter: PAHs (see attached table)	Comments
1		Influent	3/6/19	15:00	5	W	1	X	X	
2		Effluent	3/6/19	14:45	5	W	1	X	X	
3		Trip Blank	3/6/19	-	1	W	1	X	X	

500-159634 COC

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days X 5 Days ___ 7 Days ___ 10 Days ___ 15 Days _____ Other
Requested Due Date _____

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [ ] Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Ben Wachholz	TRC	3/6/19	17:15	Mint Sang	TRANE	03/07/19	0930
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped Fedex
Hand Delivered

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TAL-4124-500 (1209)

500159634

Madison-Kipp Corporation GETS Sampling Parameters
March/September 2019

VOCs

Parameter	Method
Bromoform	624
Carbon Tetrachloride	624
Chloroform	624
Dichlorobromomethane	624
1,2-Dichloroethane	624
1,1-Dichloroethylene	624
Methyl Bromide	624
Chlormethane	624
1,1,2,2-Tetrachloroethane	624
Tetrachloroethene	624
1,1,2-Trichloroethane	624
1,1,1-Trichloroethane	624
Trichloroethylene	624
Vinyl Chloride	624

PAHs

Parameter	Method
Benzo(a)pyrene	625 SIM
Naphthalene	625 SIM
Benzo(a)anthracene	625 SIM
Benzo(b)fluoranthene	625 SIM
Benzo(g,h,i)perylene	625 SIM
Benzo(k)fluoranthene	625 SIM
Chrysene	625 SIM
Dibenzo(a,h)anthracene	625 SIM
Fluoranthene	625 SIM
Indeno(1,2,3-cd)pyrene	625 SIM
Phenanthrene	625 SIM
Pyrene	625 SIM

BTEX

Parameter	Method
Benzene	624
Toluene	624
Ethylbenzene	624
Xylenes	624

ORIGIN ID:PHDA (330) 966-8677
ANDREW STEHN
TRC ENVIRONMENTAL CORPORATION.
708 HEARTLAND TRAIL
SUITE 3000
MADISON, WI 53717
UNITED STATES US

SHIP DATE: 28FEB19
ACTWGT: 10.00 LB MAN
CAD: 0562065/CAFE3211

TO SAMPLE RECEIVING
TESTAMERICA CHICAGO
2417 BOND STREET

UNIVERSITY PARK IL 604843101
(708) 534-5200
REF: S500-70187

RMA:

FedEx Express

FedEx
TRK# 0221 4782 2879 6311

THU - 07 MAR 10:30A
PRIORITY OVERNIGHT

79 JOTA

60484
IL-US ORD

Part # 156287-486 RRDE EXP 11/19

*2639446 03/06 565J1/46D3/23AD

500-159634 Wayt

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

500-159634 Chain of Custody

Cooler Received/Opened On 3/9/2019 @ 0915

Time Samples Removed From Cooler 11:00 Time Samples Placed In Storage 12:36 (2 Hour Window)

1. Tracking # 8682 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 17960353 pH Strip Lot _____ Chlorine Strip Lot _____

2. Temperature of rep. sample or temp blank when opened: 2.3 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: (Front)

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) 2d

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

● ⬅ Larger than this.

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) 2d

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) 2d

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) 2d

I certify that I attached a label with the unique LIMS number to each container (intial) 2d

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#_____

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 8/23/17

TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

500-159634

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie	COC No: 500-118733.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sandie.fredrick@testamericainc.com / Wisconsin	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - Wisconsin	Job #: 500-159634-1
Address: 2960 Foster Creighton Drive, ,	Due Date Requested: 3/13/2019		
City: Nashville	TAT Requested (days):		
State, Zip: TN, 37204			
Phone: 615-726-0177(Tel) 615-726-3404(Fax)	PO #:		
Email:	WO #:		
Project Name: MadisonKipp - GETS 2019	Project #: 50014136		
Site:	SSOW#:		

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	625_SIM/625_Prep_LVI (MOD) Single compound	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Influent (500-159634-1)	3/6/19	15:00 Central		Water			X	2	
Effluent (500-159634-2)	3/6/19	14:45 Central		Water			X	2	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For _____ Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by:	03/08/19 1610	TAL CHI		09:15 03/09/19	TA CHI
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 03/09/19	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 2.3	

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: TRC Environmental Corporation.

Job Number: 500-159634-1

Login Number: 159634
List Number: 1
Creator: Sanchez, Ariel M

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	-0.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-164755-1
Client Project/Site: MadisonKipp - GETS 2019 - 323372

For:
TRC Environmental Corporation.
708 Heartland Trail
Suite 3000
Madison, Wisconsin 53717

Attn: Andrew Stehn

Sandie Fredrick

Authorized for release by:
6/24/2019 1:30:35 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

LINKS

Review your project results through TotalAccess

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Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 500-164755-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-164755-1

Comments
No additional comments.

Receipt
The samples were received on 6/8/2019 9:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.1° C.

GC/MS VOA
The following sample was diluted to bring the concentration of target analytes within the calibration range: Influent (500-164755-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 625 SIM: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 490-602014 and analytical batch 490-602110.

Method(s) 625 SIM: The following samples were prepped outside of prep holding time due to analyst error: Influent (500-164755-1) and Effluent (500-164755-2).

Method(s) 625 SIM: Phenanthrene was detected above the reporting limit (RL) in the method blank associated with preparation batch 490-602014 and analytical batch 490-602110 as well as in the following samples: Influent (500-164755-1) and Effluent (500-164755-2). All affected samples were re-extracted and re-analyzed outside of holding time. The original set of data has been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: TRC Environmental Corporation.
Job ID: 500-164755-1
Project/Site: MadisonKipp - GETS 2019 - 323372

Client Sample ID: Influent
Lab Sample ID: 500-164755-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.21	J	0.50	0.15	ug/L	1		624	Total/NA
Chloroform	0.50	J	2.0	0.37	ug/L	1		624	Total/NA
Vinyl chloride	3.0		1.0	0.20	ug/L	1		624	Total/NA
Tetrachloroethene - DL	1600		10	3.7	ug/L	10		624	Total/NA
Trichloroethene - DL	260		5.0	1.6	ug/L	10		624	Total/NA
Phenanthrene	0.14	H B	0.10	0.052	ug/L	1		625 SIM	Total/NA

Client Sample ID: Effluent
Lab Sample ID: 500-164755-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	11		1.0	0.37	ug/L	1		624	Total/NA
Toluene	0.16	J	0.50	0.15	ug/L	1		624	Total/NA
Trichloroethene	2.7		0.50	0.16	ug/L	1		624	Total/NA
Naphthalene	0.095	J H B	0.10	0.051	ug/L	1		625 SIM	Total/NA
Phenanthrene	0.19	H B	0.10	0.051	ug/L	1		625 SIM	Total/NA

Client Sample ID: Trip Blank
Lab Sample ID: 500-164755-3

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: TRC Environmental Corporation.
Project/Site: MadisonKipp - GETS 2019 - 323372

Job ID: 500-164755-1

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL CHI
625 SIM	Semivolatile Organic Compounds GC/MS (SIM)	40CFR136A	TAL NSH
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL CHI
625	Liquid-Liquid Extraction	40CFR136A	TAL NSH

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200
TAL NSH = Eurofins TestAmerica, Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Sample Summary

Client: TRC Environmental Corporation.
Job ID: 500-164755-1
Project/Site: MadisonKipp - GETS 2019 - 323372

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-164755-1	Influent	Water	06/07/19 11:30	06/08/19 09:40	
500-164755-2	Effluent	Water	06/07/19 11:25	06/08/19 09:40	
500-164755-3	Trip Blank	Water	06/07/19 00:00	06/08/19 09:40	

Client Sample ID: Influent

Date Collected: 06/07/19 11:30
Date Received: 06/08/19 09:40

Lab Sample ID: 500-164755-1

Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.21**	**J**	0.50	0.15	ug/L			06/17/19 12:50	1
Bromoform	<0.45		1.0	0.45	ug/L			06/17/19 12:50	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			06/17/19 12:50	1
Chloroform	**0.50**	**J**	2.0	0.37	ug/L			06/17/19 12:50	1
Chloromethane	<0.32		1.0	0.32	ug/L			06/17/19 12:50	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			06/17/19 12:50	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			06/17/19 12:50	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			06/17/19 12:50	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			06/17/19 12:50	1
Methyl bromide	<0.65		3.0	0.65	ug/L			06/17/19 12:50	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			06/17/19 12:50	1
Toluene	<0.15		0.50	0.15	ug/L			06/17/19 12:50	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			06/17/19 12:50	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			06/17/19 12:50	1
Vinyl chloride	**3.0**		1.0	0.20	ug/L			06/17/19 12:50	1
Xylenes, Total	<0.40		1.0	0.40	ug/L			06/17/19 12:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*71 - 120*		*06/17/19 12:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*71 - 127*		*06/17/19 12:50*	*1*
Toluene-d8 (Surr)	*100*		*75 - 120*		*06/17/19 12:50*	*1*

Method: 624 - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**1600**		10	3.7	ug/L			06/17/19 13:15	10
Trichloroethene	**260**		5.0	1.6	ug/L			06/17/19 13:15	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*71 - 120*		*06/17/19 13:15*	*10*
1,2-Dichloroethane-d4 (Surr)	*94*		*71 - 127*		*06/17/19 13:15*	*10*
Toluene-d8 (Surr)	*101*		*75 - 120*		*06/17/19 13:15*	*10*

Method: 625 SIM - Semivolatile Organic Compounds GC/MS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	<0.026	H	0.052	0.026	ug/L		06/17/19 16:43	06/18/19 21:49	1
Benzo[a]pyrene	<0.026	H	0.052	0.026	ug/L		06/17/19 16:43	06/18/19 21:49	1
Benzo[b]fluoranthene	<0.026	H	0.052	0.026	ug/L		06/17/19 16:43	06/18/19 21:49	1
Benzo[g,h,i]perylene	<0.052	H	0.10	0.052	ug/L		06/17/19 16:43	06/18/19 21:49	1
Benzo[k]fluoranthene	<0.052	H	0.10	0.052	ug/L		06/17/19 16:43	06/18/19 21:49	1
Chrysene	<0.052	H	0.10	0.052	ug/L		06/17/19 16:43	06/18/19 21:49	1
Dibenz(a,h)anthracene	<0.026	H	0.052	0.026	ug/L		06/17/19 16:43	06/18/19 21:49	1
Fluoranthene	<0.052	H	0.10	0.052	ug/L		06/17/19 16:43	06/18/19 21:49	1
Indeno[1,2,3-cd]pyrene	<0.026	H	0.052	0.026	ug/L		06/17/19 16:43	06/18/19 21:49	1
Naphthalene	<0.052	H	0.10	0.052	ug/L		06/17/19 16:43	06/18/19 21:49	1
Phenanthrene	**0.14**	**H B**	0.10	0.052	ug/L		06/17/19 16:43	06/18/19 21:49	1
Pyrene	<0.052	H	0.10	0.052	ug/L		06/17/19 16:43	06/18/19 21:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*82*		*27 - 120*	*06/17/19 16:43*	*06/18/19 21:49*	*1*
Terphenyl-d14	*106*		*13 - 120*	*06/17/19 16:43*	*06/18/19 21:49*	*1*
2-Fluorobiphenyl (Surr)	*78*		*10 - 120*	*06/17/19 16:43*	*06/18/19 21:49*	*1*

Client Sample ID: Influent
Lab Sample ID: 500-164755-1
Date Collected: 06/07/19 11:30
Matrix: Water
Date Received: 06/08/19 09:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			06/12/19 15:46	1

Client Sample ID: Effluent
Lab Sample ID: 500-164755-2
Date Collected: 06/07/19 11:25
Matrix: Water
Date Received: 06/08/19 09:40

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			06/17/19 13:41	1
Bromoform	<0.45		1.0	0.45	ug/L			06/17/19 13:41	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			06/17/19 13:41	1
Chloroform	<0.37		2.0	0.37	ug/L			06/17/19 13:41	1
Chloromethane	<0.32		1.0	0.32	ug/L			06/17/19 13:41	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			06/17/19 13:41	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			06/17/19 13:41	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			06/17/19 13:41	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			06/17/19 13:41	1
Methyl bromide	<0.65		3.0	0.65	ug/L			06/17/19 13:41	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			06/17/19 13:41	1
Tetrachloroethene	**11**		1.0	0.37	ug/L			06/17/19 13:41	1
Toluene	**0.16**	**J**	0.50	0.15	ug/L			06/17/19 13:41	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			06/17/19 13:41	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			06/17/19 13:41	1
Trichloroethene	**2.7**		0.50	0.16	ug/L			06/17/19 13:41	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			06/17/19 13:41	1
Xylenes, Total	<0.40		1.0	0.40	ug/L			06/17/19 13:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*71 - 120*		*06/17/19 13:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*71 - 127*		*06/17/19 13:41*	*1*
Toluene-d8 (Surr)	*101*		*75 - 120*		*06/17/19 13:41*	*1*

Method: 625 SIM - Semivolatile Organic Compounds GC/MS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	<0.026	H	0.051	0.026	ug/L		06/17/19 16:43	06/18/19 22:10	1
Benzo[a]pyrene	<0.026	H	0.051	0.026	ug/L		06/17/19 16:43	06/18/19 22:10	1
Benzo[b]fluoranthene	<0.026	H	0.051	0.026	ug/L		06/17/19 16:43	06/18/19 22:10	1
Benzo[g,h,i]perylene	<0.051	H	0.10	0.051	ug/L		06/17/19 16:43	06/18/19 22:10	1
Benzo[k]fluoranthene	<0.051	H	0.10	0.051	ug/L		06/17/19 16:43	06/18/19 22:10	1
Chrysene	<0.051	H	0.10	0.051	ug/L		06/17/19 16:43	06/18/19 22:10	1
Dibenz(a,h)anthracene	<0.026	H	0.051	0.026	ug/L		06/17/19 16:43	06/18/19 22:10	1
Fluoranthene	<0.051	H	0.10	0.051	ug/L		06/17/19 16:43	06/18/19 22:10	1
Indeno[1,2,3-cd]pyrene	<0.026	H	0.051	0.026	ug/L		06/17/19 16:43	06/18/19 22:10	1
Naphthalene	**0.095**	**J H B**	0.10	0.051	ug/L		06/17/19 16:43	06/18/19 22:10	1
Phenanthrene	**0.19**	**H B**	0.10	0.051	ug/L		06/17/19 16:43	06/18/19 22:10	1
Pyrene	<0.051	H	0.10	0.051	ug/L		06/17/19 16:43	06/18/19 22:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*83*		*27 - 120*	*06/17/19 16:43*	*06/18/19 22:10*	*1*
Terphenyl-d14	*105*		*13 - 120*	*06/17/19 16:43*	*06/18/19 22:10*	*1*
2-Fluorobiphenyl (Surr)	*79*		*10 - 120*	*06/17/19 16:43*	*06/18/19 22:10*	*1*

Client Sample ID: Effluent — Lab Sample ID: 500-164755-2

Date Collected: 06/07/19 11:25 — **Matrix: Water**
Date Received: 06/08/19 09:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			06/12/19 15:47	1

Client Sample ID: Trip Blank — Lab Sample ID: 500-164755-3

Date Collected: 06/07/19 00:00 — **Matrix: Water**
Date Received: 06/08/19 09:40

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			06/17/19 11:33	1
Bromoform	<0.45		1.0	0.45	ug/L			06/17/19 11:33	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			06/17/19 11:33	1
Chloroform	<0.37		2.0	0.37	ug/L			06/17/19 11:33	1
Chloromethane	<0.32		1.0	0.32	ug/L			06/17/19 11:33	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			06/17/19 11:33	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			06/17/19 11:33	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			06/17/19 11:33	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			06/17/19 11:33	1
Methyl bromide	<0.65		3.0	0.65	ug/L			06/17/19 11:33	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			06/17/19 11:33	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			06/17/19 11:33	1
Toluene	<0.15		0.50	0.15	ug/L			06/17/19 11:33	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			06/17/19 11:33	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			06/17/19 11:33	1
Trichloroethene	<0.16		0.50	0.16	ug/L			06/17/19 11:33	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			06/17/19 11:33	1
Xylenes, Total	<0.40		1.0	0.40	ug/L			06/17/19 11:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*71 - 120*		*06/17/19 11:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*71 - 127*		*06/17/19 11:33*	*1*
Toluene-d8 (Surr)	*100*		*75 - 120*		*06/17/19 11:33*	*1*

Definitions/Glossary

Client: TRC Environmental Corporation. Job ID: 500-164755-1
Project/Site: MadisonKipp - GETS 2019 - 323372

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: MadisonKipp - GETS 2019 - 323372

Job ID: 500-164755-1

GC/MS VOA

Analysis Batch: 490548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-164755-1	Influent	Total/NA	Water	624	
500-164755-1 - DL	Influent	Total/NA	Water	624	
500-164755-2	Effluent	Total/NA	Water	624	
500-164755-3	Trip Blank	Total/NA	Water	624	
MB 500-490548/6	Method Blank	Total/NA	Water	624	
LCS 500-490548/4	Lab Control Sample	Total/NA	Water	624	

GC/MS Semi VOA

Prep Batch: 602014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-164755-1	Influent	Total/NA	Water	625	
500-164755-2	Effluent	Total/NA	Water	625	
MB 490-602014/1-A	Method Blank	Total/NA	Water	625	
LCS 490-602014/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 490-602014/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 602110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-164755-1	Influent	Total/NA	Water	625 SIM	602014
500-164755-2	Effluent	Total/NA	Water	625 SIM	602014
MB 490-602014/1-A	Method Blank	Total/NA	Water	625 SIM	602014
LCS 490-602014/2-A	Lab Control Sample	Total/NA	Water	625 SIM	602014
LCSD 490-602014/3-A	Lab Control Sample Dup	Total/NA	Water	625 SIM	602014

General Chemistry

Analysis Batch: 489966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-164755-1	Influent	Total/NA	Water	SM 2540D	
500-164755-2	Effluent	Total/NA	Water	SM 2540D	
MB 500-489966/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-489966/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Surrogate Summary

Client: TRC Environmental Corporation.
Project/Site: MadisonKipp - GETS 2019 - 323372

Job ID: 500-164755-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DCA	TOL
Lab Sample ID	Client Sample ID	(71-120)	(71-127)	(75-120)
500-164755-1	Influent	98	94	100
500-164755-1 - DL	Influent	101	94	101
500-164755-2	Effluent	100	96	101
500-164755-3	Trip Blank	100	96	100
LCS 500-490548/4	Lab Control Sample	101	92	101
MB 500-490548/6	Method Blank	100	95	101

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 625 SIM - Semivolatile Organic Compounds GC/MS (SIM)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		NBZ	TPHL	FBP
Lab Sample ID	Client Sample ID	(27-120)	(13-120)	(10-120)
500-164755-1	Influent	82	106	78
500-164755-2	Effluent	83	105	79
LCS 490-602014/2-A	Lab Control Sample	83	93	83
LCSD 490-602014/3-A	Lab Control Sample Dup	85	95	85
MB 490-602014/1-A	Method Blank	81	96	81

Surrogate Legend

NBZ = Nitrobenzene-d5
TPHL = Terphenyl-d14
FBP = 2-Fluorobiphenyl (Surr)

Method: 624 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-490548/6
Matrix: Water
Analysis Batch: 490548

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			06/17/19 11:07	1
Bromoform	<0.45		1.0	0.45	ug/L			06/17/19 11:07	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			06/17/19 11:07	1
Chloroform	<0.37		2.0	0.37	ug/L			06/17/19 11:07	1
Chloromethane	<0.32		1.0	0.32	ug/L			06/17/19 11:07	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			06/17/19 11:07	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			06/17/19 11:07	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			06/17/19 11:07	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			06/17/19 11:07	1
Methyl bromide	<0.65		3.0	0.65	ug/L			06/17/19 11:07	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			06/17/19 11:07	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			06/17/19 11:07	1
Toluene	<0.15		0.50	0.15	ug/L			06/17/19 11:07	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			06/17/19 11:07	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			06/17/19 11:07	1
Trichloroethene	<0.16		0.50	0.16	ug/L			06/17/19 11:07	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			06/17/19 11:07	1
Xylenes, Total	<0.40		1.0	0.40	ug/L			06/17/19 11:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*71 - 120*		*06/17/19 11:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*71 - 127*		*06/17/19 11:07*	*1*
Toluene-d8 (Surr)	*101*		*75 - 120*		*06/17/19 11:07*	*1*

Lab Sample ID: LCS 500-490548/4
Matrix: Water
Analysis Batch: 490548

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	48.1		ug/L		96	37 - 151
Bromoform	50.0	43.0		ug/L		86	45 - 169
Carbon tetrachloride	50.0	51.7		ug/L		103	70 - 140
Chloroform	50.0	47.5		ug/L		95	51 - 138
Chloromethane	50.0	48.8		ug/L		98	10 - 273
Dichlorobromomethane	50.0	46.5		ug/L		93	35 - 155
1,2-Dichloroethane	50.0	46.0		ug/L		92	49 - 155
1,1-Dichloroethene	50.0	51.3		ug/L		103	10 - 234
Ethylbenzene	50.0	49.4		ug/L		99	37 - 162
Methyl bromide	50.0	49.5		ug/L		99	10 - 242
m&p-Xylene	50.0	46.4		ug/L		93	
o-Xylene	50.0	46.7		ug/L		93	
1,1,2,2-Tetrachloroethane	50.0	44.3		ug/L		89	46 - 157
Tetrachloroethene	50.0	51.7		ug/L		103	64 - 148
Toluene	50.0	46.9		ug/L		94	47 - 150
1,1,1-Trichloroethane	50.0	51.0		ug/L		102	52 - 162
1,1,2-Trichloroethane	50.0	44.7		ug/L		89	52 - 150
Trichloroethene	50.0	49.5		ug/L		99	71 - 157
Vinyl chloride	50.0	50.6		ug/L		101	10 - 251

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-490548/4
Matrix: Water
Analysis Batch: 490548

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*101*		*71 - 120*
1,2-Dichloroethane-d4 (Surr)	*92*		*71 - 127*
Toluene-d8 (Surr)	*101*		*75 - 120*

Method: 625 SIM - Semivolatile Organic Compounds GC/MS (SIM)

Lab Sample ID: MB 490-602014/1-A
Matrix: Water
Analysis Batch: 602110

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 602014

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	<0.025		0.050	0.025	ug/L		06/17/19 16:43	06/18/19 12:14	1
Benzo[a]pyrene	<0.025		0.050	0.025	ug/L		06/17/19 16:43	06/18/19 12:14	1
Benzo[b]fluoranthene	<0.025		0.050	0.025	ug/L		06/17/19 16:43	06/18/19 12:14	1
Benzo[g,h,i]perylene	<0.050		0.10	0.050	ug/L		06/17/19 16:43	06/18/19 12:14	1
Benzo[k]fluoranthene	<0.050		0.10	0.050	ug/L		06/17/19 16:43	06/18/19 12:14	1
Chrysene	<0.050		0.10	0.050	ug/L		06/17/19 16:43	06/18/19 12:14	1
Dibenz(a,h)anthracene	<0.025		0.050	0.025	ug/L		06/17/19 16:43	06/18/19 12:14	1
Fluoranthene	0.0560	J	0.10	0.050	ug/L		06/17/19 16:43	06/18/19 12:14	1
Indeno[1,2,3-cd]pyrene	<0.025		0.050	0.025	ug/L		06/17/19 16:43	06/18/19 12:14	1
Naphthalene	0.0567	J	0.10	0.050	ug/L		06/17/19 16:43	06/18/19 12:14	1
Phenanthrene	0.376		0.10	0.050	ug/L		06/17/19 16:43	06/18/19 12:14	1
Pyrene	<0.050		0.10	0.050	ug/L		06/17/19 16:43	06/18/19 12:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	*81*		*27 - 120*	*06/17/19 16:43*	*06/18/19 12:14*	*1*
Terphenyl-d14	*96*		*13 - 120*	*06/17/19 16:43*	*06/18/19 12:14*	*1*
2-Fluorobiphenyl (Surr)	*81*		*10 - 120*	*06/17/19 16:43*	*06/18/19 12:14*	*1*

Lab Sample ID: LCS 490-602014/2-A
Matrix: Water
Analysis Batch: 602110

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 602014

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]anthracene	8.00	7.14		ug/L		89	33 - 143
Benzo[a]pyrene	8.00	7.50		ug/L		94	17 - 163
Benzo[b]fluoranthene	8.00	7.41		ug/L		93	24 - 159
Benzo[g,h,i]perylene	8.00	7.64		ug/L		95	10 - 219
Benzo[k]fluoranthene	8.00	7.74		ug/L		97	11 - 162
Chrysene	8.00	7.36		ug/L		92	17 - 168
Dibenz(a,h)anthracene	8.00	7.56		ug/L		95	10 - 227
Fluoranthene	8.00	7.24		ug/L		90	26 - 137
Indeno[1,2,3-cd]pyrene	8.00	7.54		ug/L		94	10 - 171
Naphthalene	8.00	6.38		ug/L		80	21 - 133
Phenanthrene	8.00	7.13		ug/L		89	54 - 120
Pyrene	8.00	7.05		ug/L		88	52 - 115

Method: 625 SIM - Semivolatile Organic Compounds GC/MS (SIM) (Continued)

Lab Sample ID: LCS 490-602014/2-A
Matrix: Water
Analysis Batch: 602110

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 602014

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5	*83*		*27 - 120*
Terphenyl-d14	*93*		*13 - 120*
2-Fluorobiphenyl (Surr)	*83*		*10 - 120*

Lab Sample ID: LCSD 490-602014/3-A
Matrix: Water
Analysis Batch: 602110

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 602014

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[a]anthracene			8.00	7.28		ug/L		91	33 - 143	2	30
Benzo[a]pyrene			8.00	7.69		ug/L		96	17 - 163	2	30
Benzo[b]fluoranthene			8.00	7.52		ug/L		94	24 - 159	1	30
Benzo[g,h,i]perylene			8.00	7.87		ug/L		98	10 - 219	3	30
Benzo[k]fluoranthene			8.00	8.04		ug/L		100	11 - 162	4	30
Chrysene			8.00	7.54		ug/L		94	17 - 168	2	30
Dibenz(a,h)anthracene			8.00	7.77		ug/L		97	10 - 227	3	30
Fluoranthene			8.00	7.50		ug/L		94	26 - 137	4	30
Indeno[1,2,3-cd]pyrene			8.00	7.79		ug/L		97	10 - 171	3	30
Naphthalene			8.00	6.43		ug/L		80	21 - 133	1	30
Phenanthrene			8.00	7.47		ug/L		93	54 - 120	5	30
Pyrene			8.00	7.15		ug/L		89	52 - 115	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5	*85*		*27 - 120*
Terphenyl-d14	*95*		*13 - 120*
2-Fluorobiphenyl (Surr)	*85*		*10 - 120*

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 500-489966/1
Matrix: Water
Analysis Batch: 489966

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			06/12/19 15:35	1

Lab Sample ID: LCS 500-489966/2
Matrix: Water
Analysis Batch: 489966

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Suspended Solids			200	191		mg/L		95	80 - 120		

Lab Chronicle

Client: TRC Environmental Corporation.
Job ID: 500-164755-1
Project/Site: MadisonKipp - GETS 2019 - 323372

Client Sample ID: Influent
Lab Sample ID: 500-164755-1
Date Collected: 06/07/19 11:30
Matrix: Water
Date Received: 06/08/19 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	490548	06/17/19 12:50	MAN	TAL CHI
Total/NA	Analysis	624	DL	10	490548	06/17/19 13:15	MAN	TAL CHI
Total/NA	Prep	625			602014	06/17/19 16:43	KWS	TAL NSH
Total/NA	Analysis	625 SIM		1	602110	06/18/19 21:49	T1C	TAL NSH
Total/NA	Analysis	SM 2540D		1	489966		SMO	TAL CHI
						(Start) 06/12/19 15:46		
						(End) 06/12/19 15:47		

Client Sample ID: Effluent
Lab Sample ID: 500-164755-2
Date Collected: 06/07/19 11:25
Matrix: Water
Date Received: 06/08/19 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	490548	06/17/19 13:41	MAN	TAL CHI
Total/NA	Prep	625			602014	06/17/19 16:43	KWS	TAL NSH
Total/NA	Analysis	625 SIM		1	602110	06/18/19 22:10	T1C	TAL NSH
Total/NA	Analysis	SM 2540D		1	489966		SMO	TAL CHI
						(Start) 06/12/19 15:47		
						(End) 06/12/19 15:48		

Client Sample ID: Trip Blank
Lab Sample ID: 500-164755-3
Date Collected: 06/07/19 00:00
Matrix: Water
Date Received: 06/08/19 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	490548	06/17/19 11:33	MAN	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL NSH = Eurofins TestAmerica, Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Accreditation/Certification Summary

Client: TRC Environmental Corporation. Job ID: 500-164755-1
Project/Site: MadisonKipp - GETS 2019 - 323372

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	999580010	08-31-19 *

Laboratory: Eurofins TestAmerica, Nashville

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	998020430	08-31-19

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica

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2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

Lab Job #: 500-164755

Chain of Custody Number:

Page _____ of _____

Temperature °C of Cooler: 5.1

Report To (optional)	Bill To (optional)
Contact: ANDREW STEHN	Contact: ANDREW STEHN
Company: TRC	Company:
Address:	Address:
Address:	Address:
Phone: 608-807-8112	Phone:
Fax:	Fax:
E-Mail:	PO#/Reference# 132938

Client: TRC/MKC	Client Project #: 33			Preservative	1	8	8										
Project Name: MKC				Parameter	VOCs	PAHs	TSS										
Project Location/State: MADISON / WI	Lab Project #: 323372 Ph. 2 TASK 2																
Sampler: Steve Sellwood	Lab PM: Sandie Fredrick																
Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix											
1		INFLUENT	6/7/19	11:30	6	W	X	X	X								
2		Effluent	6/7/19	11:25	6	W	X	X	X								
3		Trip Blank			1	W	X										

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Comments

500-164755 COC

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days X 10 Days ___ 15 Days _____ Other
Requested Due Date _____

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [ ] Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
	TRC	06/07/19	14:00	FED EX			
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
					THAL	06/08/19	0940
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped FEDEX Saturday
Hand Delivered

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

6/24/2019

Bottle Order Information

Bottle Order: MadisonKipp - GETS 2019
Bottle Order #: 32909
Request From Client: 2/27/2019
Date Order Posted: 2/27/2019 12:17:41PM
Order Status: In Process
Prepared By: Sandie Fredrick
Deliver By Date: ***6/1/2019 11:59:00PM***
Lab Project Number: 50014136

Order Completion Information

Creator: Sandie Fredrick
Filled by:
Sent Date:
Sent Via:
Tracking #:

Sets	Bottles/Set	Qty	Bottle Type Description	Preservative	Method	Matrix	Sample Type	Comments	Lot #
2	3	6	Voa Vial 40ml - Hydrochloric Acid	Hydrochloric Acid		Water	Normal	VOC	
2	2	4	Amber Glass 250ml - unpreserved	None		Water	Normal	PAHSIM	
2	1	2	Plastic 500ml - unpreserved	None		Water	Normal	TSS	
1	1	1	Voa Vial 40ml - Hydrochloric Acid	Hydrochloric Acid		Water	Trip Blank	VOC - TB	

Notes to Field Staff:

Scan QR code for field sampler instructions

Health and Safety Notes:

Preservative	Comment
Hydrochloric Acid	CAUTION! CONTAINS 1:1 HYDROCHLORIC ACID. Avoid skin and eye contact. If contact is made, FLUSH IMMEDIATELY with water.

Relinquished By	Company	Date	Time	Received By	Company	Seal #:
		06/18/19	0940		TAL-LE	Seal #:
						Seal #:
Relinquished By	Company	Date	Time	Received By	Company	Seal #:
						Seal #:
						Seal #:

Please notify your PM immediately if an error is found in shipment.

Go to http://www.testamericainc.com/customer-support/specialized-instructions-for-field-samplers/ for field sampler instructions.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Part # 159469-434 RIT2 EXP 10/18

ORIGIN ID:PHDA (330) 916-9677
ANDREW STEHN
TRC ENVIRONMENTAL CORPORATION.
708 HEARTLAND TRAIL
SUITE 3000
MADISON, WI 53717
UNITED STATES US

SHIP DATE: 31MAY19
ACTWGT: 10.00 LB MAN
CAD: 0562057/CAFE3211

TO SAMPLE RECEIVING
TESTAMERICA CHICAGO
2417 BOND STREET

UNIVERSITY PARK IL 604843101
(708) 534-5200
REF: S480-131025

RMA:

FedEx Express

FedEx
TRK# 0221 4422 3447 5066

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO JOTA

60484
IL-US ORD

Part # 156297-435 BRDE2 EXP 05/20

500-164755 Wayb

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
901192

6/24/2019

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

500-164755 Chain of Custody

Cooler Received/Opened On 06-11-2019 @ 08:45

Time Samples Removed From Cooler _____ Time Samples Placed In Storage _____ (2 Hour Window)

1. Tracking # 3789 (last 4 digits, FedEx) Courier: _FedEx_
   IR Gun ID 14740456 pH Strip Lot N/A Chlorine Strip Lot N/A
2. Temperature of rep. sample or temp blank when opened: 1.0 *Degrees Celsius*
3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA
4. Were custody seals on outside of cooler? YES...NO...NA
   If yes, how many and where: 1 (front)
5. Were the seals intact, signed, and dated correctly? YES...NO...NA
6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) KH

7. Were custody seals on containers: YES NO and Intact YES...NO...NA
   Were these signed and dated correctly? YES...NO...NA
8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None
9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None
10. Did all containers arrive in good condition (unbroken)? YES...NO...NA
11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA
12. Did all container labels and tags agree with custody papers? YES...NO...NA
13a. Were VOA vials received? YES...NO...NA
   b. Was there any observable headspace present in any VOA vial? YES...NO...NA

● ⬅ Larger than this.

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (intial) KH

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA
   b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA
16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) KH

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA
18. Did you sign the custody papers in the appropriate place? YES...NO...NA
19. Were correct containers used for the analysis requested? YES...NO...NA
20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) KH

I certify that I attached a label with the unique LIMS number to each container (intial) KH

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#_____

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 8/23/17

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie	COC No: 500-122050.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sandie.fredrick@testa... Wisconsin	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - Wisconsin	Job #: 500-164755-1
Address: 2960 Foster Creighton Drive, ,	Due Date Requested: 6/14/2019		
City: Nashville	TAT Requested (days):		
State, Zip: TN, 37204			
Phone: 615-726-0177(Tel) 615-726-3404(Fax)	PO #:		
Email:	WO #:		
Project Name: MadisonKipp - GETS 2019 - 323372	Project #: 50014136		
Site:	SSOW#:		

Analysis Requested

Loc: 500
164755

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	625_SIM/625_Prep_LVI (MOD) Single compound	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Influent (500-164755-1)	6/7/19	11:30 Central		Water			X	2	
Effluent (500-164755-2)	6/7/19	11:25 Central		Water			X	2	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by:	Date/Time: 6/10/19 1500	Company TA	Received by:	Date/Time: 06-11-2019 08:45	Company TAWAS	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 2.0			

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: TRC Environmental Corporation. Job Number: 500-164755-1

Login Number: 164755 **List Source: Eurofins TestAmerica, Chicago**
List Number: 1
Creator: Fioravanti, Ariel M

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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6/24/2019
Mr. Andrew Stehn
TRC Corporation (RMT)
708 Heartland Trail
Suite 3000
Madison WI 53717

Project Name: MKC OM+M
Project #: 323372 Ph2 Tsk 2
Workorder #: 1906191

Dear Mr. Andrew Stehn

The following report includes the data for the above referenced project for sample(s) received on 6/11/2019 at Air Toxics Ltd.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Ausha Scott

Project Manager

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WORK ORDER #: 1906191

Work Order Summary

CLIENT:	Mr. Andrew Stehn TRC Corporation (RMT) 708 Heartland Trail Suite 3000 Madison, WI 53717	**BILL TO:**	Accounts Payable/Windsor TRC Companies, Inc. 21 Griffin Rd North Windsor, CT 06095
PHONE:	608-826-3665	**P.O. #**	132939
FAX:	608-826-3941	**PROJECT #**	323372 Ph2 Tsk 2 MKC OM+M
DATE RECEIVED:	06/11/2019	**CONTACT:**	Ausha Scott
DATE COMPLETED:	06/24/2019		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	EFFLUENT	TO-15	4.1 "Hg	15.8 psi
02A	INFLUENT	TO-15	6.9 "Hg	14.9 psi
03A	Lab Blank	TO-15	NA	NA
04A	CCV	TO-15	NA	NA
05A	LCS	TO-15	NA	NA
05AA	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 06/24/19

Technical Director

Certification numbers: AZ Licensure AZ0775, FL NELAP - E8 , LA NELAP - 02089, NH NELAP - 209218, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-18-13, UT NELAP CA009332018-10, VA NELAP - 9505, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005-011, Effective date: 10/18/2018, Expiration date: 10/17/2019.
Eurofins Air Toxics LLC. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics LLC.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
EPA Method TO-15
TRC Corporation (RMT)
Workorder# 1906191

Two 1 Liter Summa Canister samples were received on June 11, 2019. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Dilution was performed on sample INFLUENT due to the presence of high level target species.

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

M - Reported value may be biased due to apparent matrix interferences.

CN - See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: EFFLUENT

Lab ID#: 1906191-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.2	9.7	3.1	25
cis-1,2-Dichloroethene	1.2	420	4.8	1700
Trichloroethene	1.2	75	6.4	400
Toluene	1.2	1.4	4.5	5.4
Tetrachloroethene	1.2	200	8.1	1400

Client Sample ID: INFLUENT

Lab ID#: 1906191-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	6.6	16	17	41
cis-1,2-Dichloroethene	6.6	1500	26	6000
Trichloroethene	6.6	660	35	3500
Tetrachloroethene	6.6	1700	44	12000

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Client Sample ID: EFFLUENT

Lab ID#: 1906191-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p061220**	**Date of Collection:**	**6/7/19 12:00:00 PM**
Dil. Factor:	**2.40**	**Date of Analysis:**	**6/13/19 12:31 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.9	Not Detected
Freon 114	1.2	Not Detected	8.4	Not Detected
Chloromethane	12	Not Detected	25	Not Detected
Vinyl Chloride	1.2	9.7	3.1	25
Bromomethane	12	Not Detected	47	Not Detected
Chloroethane	4.8	Not Detected	13	Not Detected
Freon 11	1.2	Not Detected	6.7	Not Detected
Freon 113	1.2	Not Detected	9.2	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Methylene Chloride	12	Not Detected	42	Not Detected
Methyl tert-butyl ether	4.8	Not Detected	17	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.8	Not Detected
cis-1,2-Dichloroethene	1.2	420	4.8	1700
Chloroform	1.2	Not Detected	5.8	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.6	Not Detected
Benzene	1.2	Not Detected	3.8	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.8	Not Detected
Trichloroethene	1.2	75	6.4	400
1,2-Dichloropropane	1.2	Not Detected	5.5	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
Toluene	1.2	1.4	4.5	5.4
trans-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Tetrachloroethene	1.2	200	8.1	1400
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.2	Not Detected
Chlorobenzene	1.2	Not Detected	5.5	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	Not Detected	5.2	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected
Styrene	1.2	Not Detected	5.1	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.2	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.2	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	36	Not Detected
Hexachlorobutadiene	4.8	Not Detected	51	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: EFFLUENT

Lab ID#: 1906191-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p061220**	**Date of Collection: 6/7/19 12:00:00 PM**	
Dil. Factor:	**2.40**	**Date of Analysis: 6/13/19 12:31 AM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	92	70-130

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Client Sample ID: INFLUENT

Lab ID#: 1906191-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p061221**	**Date of Collection:**	**6/7/19 11:51:00 AM**
Dil. Factor:	**13.1**	**Date of Analysis:**	**6/13/19 12:57 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	6.6	Not Detected	32	Not Detected
Freon 114	6.6	Not Detected	46	Not Detected
Chloromethane	66	Not Detected	140	Not Detected
Vinyl Chloride	6.6	16	17	41
Bromomethane	66	Not Detected	250	Not Detected
Chloroethane	26	Not Detected	69	Not Detected
Freon 11	6.6	Not Detected	37	Not Detected
Freon 113	6.6	Not Detected	50	Not Detected
1,1-Dichloroethene	6.6	Not Detected	26	Not Detected
Methylene Chloride	66	Not Detected	230	Not Detected
Methyl tert-butyl ether	26	Not Detected	94	Not Detected
1,1-Dichloroethane	6.6	Not Detected	26	Not Detected
cis-1,2-Dichloroethene	6.6	1500	26	6000
Chloroform	6.6	Not Detected	32	Not Detected
1,1,1-Trichloroethane	6.6	Not Detected	36	Not Detected
Carbon Tetrachloride	6.6	Not Detected	41	Not Detected
Benzene	6.6	Not Detected	21	Not Detected
1,2-Dichloroethane	6.6	Not Detected	26	Not Detected
Trichloroethene	6.6	660	35	3500
1,2-Dichloropropane	6.6	Not Detected	30	Not Detected
cis-1,3-Dichloropropene	6.6	Not Detected	30	Not Detected
Toluene	6.6	Not Detected	25	Not Detected
trans-1,3-Dichloropropene	6.6	Not Detected	30	Not Detected
1,1,2-Trichloroethane	6.6	Not Detected	36	Not Detected
Tetrachloroethene	6.6	1700	44	12000
1,2-Dibromoethane (EDB)	6.6	Not Detected	50	Not Detected
Chlorobenzene	6.6	Not Detected	30	Not Detected
Ethyl Benzene	6.6	Not Detected	28	Not Detected
m,p-Xylene	6.6	Not Detected	28	Not Detected
o-Xylene	6.6	Not Detected	28	Not Detected
Styrene	6.6	Not Detected	28	Not Detected
1,1,2,2-Tetrachloroethane	6.6	Not Detected	45	Not Detected
1,3,5-Trimethylbenzene	6.6	Not Detected	32	Not Detected
1,2,4-Trimethylbenzene	6.6	Not Detected	32	Not Detected
1,3-Dichlorobenzene	6.6	Not Detected	39	Not Detected
1,4-Dichlorobenzene	6.6	Not Detected	39	Not Detected
alpha-Chlorotoluene	6.6	Not Detected	34	Not Detected
1,2-Dichlorobenzene	6.6	Not Detected	39	Not Detected
1,2,4-Trichlorobenzene	26	Not Detected	190	Not Detected
Hexachlorobutadiene	26	Not Detected	280	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: INFLUENT

Lab ID#: 1906191-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p061221**	**Date of Collection: 6/7/19 11:51:00 AM**	
Dil. Factor:	**13.1**	**Date of Analysis: 6/13/19 12:57 AM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	87	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1906191-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p061206**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/12/19 02:04 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	2.0	Not Detected	7.2	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: Lab Blank

Lab ID#: 1906191-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p061206**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/12/19 02:04 PM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	92	70-130

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Client Sample ID: CCV

Lab ID#: 1906191-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p061202**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/12/19 11:44 AM**	

Compound	%Recovery
Freon 12	99
Freon 114	98
Chloromethane	70
Vinyl Chloride	116
Bromomethane	104
Chloroethane	106
Freon 11	100
Freon 113	90
1,1-Dichloroethene	101
Methylene Chloride	110
Methyl tert-butyl ether	105
1,1-Dichloroethane	103
cis-1,2-Dichloroethene	104
Chloroform	101
1,1,1-Trichloroethane	98
Carbon Tetrachloride	100
Benzene	104
1,2-Dichloroethane	103
Trichloroethene	99
1,2-Dichloropropane	105
cis-1,3-Dichloropropene	104
Toluene	102
trans-1,3-Dichloropropene	105
1,1,2-Trichloroethane	100
Tetrachloroethene	97
1,2-Dibromoethane (EDB)	102
Chlorobenzene	99
Ethyl Benzene	104
m,p-Xylene	108
o-Xylene	107
Styrene	100
1,1,2,2-Tetrachloroethane	102
1,3,5-Trimethylbenzene	105
1,2,4-Trimethylbenzene	107
1,3-Dichlorobenzene	98
1,4-Dichlorobenzene	100
alpha-Chlorotoluene	96
1,2-Dichlorobenzene	98
1,2,4-Trichlorobenzene	99
Hexachlorobutadiene	99

Container Type: NA - Not Applicable

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Client Sample ID: CCV

Lab ID#: 1906191-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p061202**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/12/19 11:44 AM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: LCS

Lab ID#: 1906191-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p061203**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/12/19 12:09 PM**	

Compound	%Recovery	Method Limits
Freon 12	107	70-130
Freon 114	106	70-130
Chloromethane	127	70-130
Vinyl Chloride	124	70-130
Bromomethane	118	70-130
Chloroethane	111	70-130
Freon 11	108	70-130
Freon 113	94	70-130
1,1-Dichloroethene	104	70-130
Methylene Chloride	115	70-130
Methyl tert-butyl ether	105	70-130
1,1-Dichloroethane	106	70-130
cis-1,2-Dichloroethene	118	70-130
Chloroform	105	70-130
1,1,1-Trichloroethane	103	70-130
Carbon Tetrachloride	105	70-130
Benzene	105	70-130
1,2-Dichloroethane	100	70-130
Trichloroethene	99	70-130
1,2-Dichloropropane	107	70-130
cis-1,3-Dichloropropene	100	70-130
Toluene	103	70-130
trans-1,3-Dichloropropene	109	70-130
1,1,2-Trichloroethane	102	70-130
Tetrachloroethene	98	70-130
1,2-Dibromoethane (EDB)	104	70-130
Chlorobenzene	101	70-130
Ethyl Benzene	107	70-130
m,p-Xylene	111	70-130
o-Xylene	115	70-130
Styrene	116	70-130
1,1,2,2-Tetrachloroethane	107	70-130
1,3,5-Trimethylbenzene	114	70-130
1,2,4-Trimethylbenzene	116	70-130
1,3-Dichlorobenzene	102	70-130
1,4-Dichlorobenzene	105	70-130
alpha-Chlorotoluene	111	70-130
1,2-Dichlorobenzene	103	70-130
1,2,4-Trichlorobenzene	108	70-130
Hexachlorobutadiene	108	70-130

Container Type: NA - Not Applicable

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Client Sample ID: LCS

Lab ID#: 1906191-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p061203**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/12/19 12:09 PM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	106	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: LCSD

Lab ID#: 1906191-05AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p061204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/12/19 12:34 PM**	

Compound	%Recovery	Method Limits
Freon 12	106	70-130
Freon 114	105	70-130
Chloromethane	124	70-130
Vinyl Chloride	110	70-130
Bromomethane	118	70-130
Chloroethane	112	70-130
Freon 11	108	70-130
Freon 113	93	70-130
1,1-Dichloroethene	104	70-130
Methylene Chloride	112	70-130
Methyl tert-butyl ether	105	70-130
1,1-Dichloroethane	105	70-130
cis-1,2-Dichloroethene	116	70-130
Chloroform	104	70-130
1,1,1-Trichloroethane	102	70-130
Carbon Tetrachloride	103	70-130
Benzene	104	70-130
1,2-Dichloroethane	100	70-130
Trichloroethene	98	70-130
1,2-Dichloropropane	106	70-130
cis-1,3-Dichloropropene	99	70-130
Toluene	102	70-130
trans-1,3-Dichloropropene	107	70-130
1,1,2-Trichloroethane	101	70-130
Tetrachloroethene	98	70-130
1,2-Dibromoethane (EDB)	104	70-130
Chlorobenzene	101	70-130
Ethyl Benzene	106	70-130
m,p-Xylene	110	70-130
o-Xylene	114	70-130
Styrene	115	70-130
1,1,2,2-Tetrachloroethane	106	70-130
1,3,5-Trimethylbenzene	109	70-130
1,2,4-Trimethylbenzene	114	70-130
1,3-Dichlorobenzene	102	70-130
1,4-Dichlorobenzene	105	70-130
alpha-Chlorotoluene	110	70-130
1,2-Dichlorobenzene	104	70-130
1,2,4-Trichlorobenzene	109	70-130
Hexachlorobutadiene	106	70-130

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 1906191-05AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p061204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/12/19 12:34 PM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	106	70-130
4-Bromofluorobenzene	97	70-130

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Analysis Request /Canister Chain of Custody

For Laboratory Use Only

PID: _____ Workorder #: 1906191

180 Blue Ravine Rd. Suite B, Folsom, CA 95630
Phone (800) 985-5955; Fax (916) 351-8279

Client: MKC / TRC P.O. 132939
Project Name: MKC OM+M
Project Manager: ~~Ant~~ Kent Vetter Project # 37-3372
Sampler: ANDREW STEHN Ph2 Tsk 2
Site Name: MADISON WIPP CORP.

Special Instructions/Notes:
DO NOT ANALYZE CAN # IL2323 9 BAD CONNECTION

Turnaround Time (Rush surcharges may apply)
Standard X Rush _____(specify)

Lab ID	Field Sample Identification(Location)	Can #	Flow Controller #	Start Sampling Information		Stop Sampling Information		Canister Vacuum/Pressure		Lab Use Only		Requested Analyses			
				Date	Time	Date	Time	Initial (in Hg)	Final (in Hg)	Receipt	Final (psig) Gas: N_2 / He	TO-15			
~~01A~~	~~EFFLUENT~~	IL2323	40-373	6/7/19	~~[illegible]~~	6/7/19		~~-28~~	~~-6.5~~			~~X~~			
01A	EFFLUENT	IL2543	01-1045	6/7/19	12:00	6/7/19	-	-26	-4			X			
02A	Influent	IL2692	41-957	6/7/19	11:51	6/7/19	-	-29	-7			X			

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
[signature] /TRC	6/7/19	14:00	FED EX		
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
			[signature] FAT	06/11/19	1013
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
			[signature]		

Lab Use Only

Shipper Name: FEDEX Custody Seals Intact? Yes No None

Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples. D.O.T Hotline (800) 467-4922

Attachment 5

Historical Groundwater Summary Table

Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1	MW-1
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	14 - 24 ft	14 - 24 ft	14 - 24 ft	14 - 24 ft	14 - 24 ft	14 - 24 ft	14 - 24 ft	14 - 24 ft	14 - 24 ft	14 - 24 ft	14 - 24 ft	14 - 24 ft	14 - 24 ft	14 - 24 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	04/08/2010	03/29/2011	04/11/2012	01/15/2013	04/21/2013	07/18/2013	10/09/2013	04/22/2014	10/23/2014	04/14/2015	10/21/2015	10/13/2016	10/04/2017	10/16/2018
VOCs																
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.25	< 0.31	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.46	< 0.11	< 0.11	< 0.11
1,1,1-Trichloroethane	40	200	< 0.5	< 0.5	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.38	< 0.10	< 0.1	< 0.10
1,1,2-Trichloroethane	0.5	5	< 0.25	< 0.25	< 0.3	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.35	< 0.10	< 0.1	< 0.10
1,1-Dichloroethene	0.7	7	***1.1***	***0.95***	***0.94 J***	***0.84 J***	< 0.31	< 0.31	0.62 J	< 0.31	< 0.31	< 0.31	< 0.39	< 0.14	< 0.14	< 0.14
1,2,4-Trimethylbenzene	96	480	< 0.2	< 0.2	< 0.22	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.36	< 0.060	< 0.06	< 0.060
1,2-Dibromoethane	0.005	0.05	< 0.2	< 0.2	< 0.45	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.39	< 0.13	< 0.13	< 0.13
1,2-Dichlorobenzene	60	600	< 0.2	< 0.2	< 0.21	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.33	< 0.076	< 0.076	< 0.076
1,2-Dichloropropane	0.5	5	< 0.5	< 0.5	< 0.36	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.43	< 0.10	< 0.1	< 0.10
1,2,3-Trichlorobenzene	NE	NE	< 0.25	< 0.25	< 0.36	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.045	< 0.045	< 0.045
1,2,4-Trichlorobenzene	14	70	< 0.25	< 0.25	< 0.22	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.34	< 0.077	< 0.077	< 0.077
1,3,5-Trimethylbenzene	96	480	< 0.2	< 0.2	< 0.23	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.25	< 0.075	< 0.075	< 0.075 J-
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.0	< 3	< 3.0 J
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.95	< 0.95	< 0.95 J
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.77	< 0.77	< 0.77 J
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.4	7.5 BJ	< 3.4 J
Benzene	0.5	5	< 0.2	< 0.2	< 0.12	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.15	< 0.089	< 0.089	< 0.089
Bromodichloromethane	0.06	0.6	< 0.2	< 0.2	< 0.23	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.37	< 0.077	< 0.077	< 0.077
Bromoform	0.44	4.4	< 0.2	< 0.2	< 0.45	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.48	< 0.088	< 0.088	< 0.088
Bromomethane	1	10	< 0.5	< 0.5	< 0.49	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.80	< 0.59	< 0.59	< 0.59
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.053	< 0.053	< 0.053
Carbon tetrachloride	0.5	5	< 0.8	< 0.8	< 0.28	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.38	< 0.038	< 0.038	< 0.038
Chloroform	0.6	6	< 0.2	< 0.2	< 0.25	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.37	< 0.062	< 0.062	< 0.062
Chloromethane	3	30	< 0.3	< 0.3	< 0.24	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.32	0.75 BJ	2.2	< 0.25 U
cis-1,2-Dichloroethene	7	70	***51***	***58***	***38***	***41***	***23***	***25***	***27***	***25***	***22***	***20***	***8***	3.6	2.8	4.0
Dichlorodifluoromethane	200	1000	< 0.5	< 0.5	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.54	< 0.11	< 0.11	< 0.11
Ethylbenzene	140	700	< 0.5	< 0.5	< 0.14	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.18	< 0.054	< 0.054	< 0.054
Isopropylbenzene	NE	NE	< 0.2	< 0.2	< 0.21	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.39	< 0.081	< 0.081	< 0.081 J-
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.057	< 0.057	< 0.057
Methyl tert-butyl ether	12	60	< 0.5	< 0.5	< 0.28	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.39	< 0.14	< 0.14	< 0.14
Methylene chloride	0.5	5	< 1	< 1	***8.5***	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 1.6	< 0.14	< 0.14	< 0.14
Naphthalene	10	100	< 0.25	< 0.25	< 0.24	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.34	< 0.088	< 0.088	< 0.088
n-Butylbenzene	NE	NE	< 0.2	< 0.2	< 0.21	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.39	< 0.14	< 0.14	< 0.14
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	< 0.21	< 0.21
n-Propylbenzene	NE	NE	< 0.5	< 0.5	< 0.19	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.41	< 0.10	< 0.1	< 0.10
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.058	< 0.058	< 0.058
p-Isopropyltoluene	NE	NE	< 0.2	< 0.2	< 0.24	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.36	< 0.085	< 0.085	< 0.085 J-
sec-Butylbenzene	NE	NE	< 0.25	< 0.25	< 0.19	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.40	< 0.13	< 0.13	< 0.13
Styrene	10	100	< 0.5	< 0.5	< 0.26	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.39	< 0.065	0.07 BJ	< 0.065
tert-Butylbenzene	NE	NE	< 0.2	< 0.2	< 0.24	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.40	< 0.12	< 0.12	< 0.12
Tetrachloroethene	0.5	5	***32***	***9***	***23***	***22***	***10***	***11***	***18***	***19***	***16***	***16***	***4.4***	***5.5***	***4***	***3.8***
Toluene	160	800	< 0.5	< 0.5	< 0.15	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.15	< 0.053	< 0.053	< 0.053
trans-1,2-Dichloroethene	20	100	0.97	0.93	0.77 J	0.78 J	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.35	0.22 J	0.16 J	0.13 J
Trichloroethene	0.5	5	***33***	***20***	***24***	***25***	***23***	***18***	***23***	***28***	***19***	***21***	***6.2***	***3.8***	***2***	***2.2***
Trichlorofluoromethane	698	3490	< 2	< 2	< 0.22	< 0.19	< 0.19	< 0.19	< 0.19	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 0.5	< 0.13
Vinyl chloride	0.02	0.2	***1.5***	***1.1***	***0.86***	***0.63***	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.20	< 0.16	< 0.16	< 0.16
Xylenes, Total	400	2000	< 0.5	< 0.5	< 0.3	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.22	< 0.058	< 0.12	< 0.12
Total PCBs																
Aroclor-1016	0.003	0.03	NA	NA	NA	< 0.17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	< 0.091	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	< 0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	< 0.11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																
Total Dissolved Solids (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-2S	MW-2S	MW-2S	MW-2S	MW-2S	MW-2S	MW-2S	MW-2S	MW-2S	MW-2S
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	04/08/2010	03/30/2011	04/11/2012	01/14/2013	04/20/2013	07/18/2013	10/10/2013	04/17/2014	10/16/2014	10/16/2018
VOCs												
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.25	< 0.31	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	NA
1,1,1-Trichloroethane	40	200	< 0.5	< 0.5	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	NA
1,1,2-Trichloroethane	0.5	5	< 0.25	< 0.25	< 0.3	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	NA
1,1-Dichloroethene	0.7	7	< 0.5	< 0.5	< 0.29	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	NA
1,2,4-Trimethylbenzene	96	480	< 0.2	< 0.2	< 0.22	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	NA
1,2-Dibromoethane	0.005	0.05	< 0.2	< 0.2	< 0.45	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	NA
1,2-Dichlorobenzene	60	600	< 0.2	< 0.2	< 0.21	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	NA
1,2-Dichloropropane	0.5	5	< 0.5	< 0.5	< 0.36	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	NA
1,2,3-Trichlorobenzene	NE	NE	< 0.25	< 0.25	< 0.36	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	NA
1,2,4-Trichlorobenzene	14	70	< 0.25	< 0.25	< 0.22	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	NA
1,3,5-Trimethylbenzene	96	480	< 0.2	< 0.2	< 0.23	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	NA
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	0.5	5	< 0.2	< 0.2	< 0.12	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	NA
Bromodichloromethane	0.06	0.6	< 0.2	< 0.2	< 0.23	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	NA
Bromoform	0.44	4.4	< 0.2	< 0.2	< 0.45	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	NA
Bromomethane	1	10	< 0.5	< 0.5	< 0.49	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	NA
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.5	5	< 0.8	< 0.8	< 0.28	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	NA
Chloroform	0.6	6	< 0.2	< 0.2	< 0.25	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	NA
Chloromethane	3	30	< 0.3	< 0.3	< 0.24	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	NA
cis-1,2-Dichloroethene	7	70	< 0.5	< 0.5	< 0.22	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	NA
Dichlorodifluoromethane	200	1000	< 0.5	< 0.5	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	NA
Ethylbenzene	140	700	< 0.5	< 0.5	< 0.14	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	NA
Isopropylbenzene	NE	NE	< 0.2	< 0.2	< 0.21	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	NA
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	12	60	< 0.5	< 0.5	< 0.28	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	NA
Methylene chloride	0.5	5	< 1	< 1	***8.6***	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	NA
Naphthalene	10	100	< 0.25	< 0.25	< 0.24	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	NA
n-Butylbenzene	NE	NE	< 0.2	< 0.2	< 0.21	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	NA
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	NE	NE	< 0.5	< 0.5	< 0.19	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	NA
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	NE	NE	< 0.2	< 0.2	< 0.24	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	NA
sec-Butylbenzene	NE	NE	< 0.25	< 0.25	< 0.19	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	NA
Styrene	10	100	< 0.5	< 0.5	< 0.26	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	NA
tert-Butylbenzene	NE	NE	< 0.2	< 0.2	< 0.24	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	NA
Tetrachloroethene	0.5	5	***1.6***	***1.3***	***1.2***	***1.3***	***1.3***	***0.81 J***	***1.1***	***1.3***	***1***	NA
Toluene	160	800	< 0.5	< 0.5	< 0.15	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	NA
trans-1,2-Dichloroethene	20	100	< 0.5	< 0.5	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	NA
Trichloroethene	0.5	5	< 0.2	< 0.2	< 0.18	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	NA
Trichlorofluoromethane	698	3490	< 2	< 2	< 0.22	< 0.19	< 0.19	< 0.19	< 0.19	< 1.0	< 1.0	NA
Vinyl chloride	0.02	0.2	< 0.2	< 0.2	< 0.13	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	NA
Xylenes, Total	400	2000	< 0.5	< 0.5	< 0.3	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	NA
Total PCBs												
Aroclor-1016	0.003	0.03	NA	NA	NA	< 0.17	NA	NA	NA	NA	NA	< 0.0072
Aroclor-1232	0.003	0.03	NA	NA	NA	< 0.091	NA	NA	NA	NA	NA	< 0.0042
Aroclor-1242	0.003	0.03	NA	NA	NA	< 0.13	NA	NA	NA	NA	NA	< 0.013
Aroclor-1248	0.003	0.03	NA	NA	NA	< 0.11	NA	NA	NA	NA	NA	< 0.011
Total Detected PCBs	0.003	0.03	NA	NA	NA	ND	NA	NA	NA	NA	NA	ND
Dissolved PCBs												
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids												
Total Dissolved Solids (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	376
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.4

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Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-2D	MW-2D	MW-2D	MW-2D	MW-2D	MW-2D	MW-2D	MW-2D	MW-2D	MW-2D	MW-2D	MW-2D	MW-2D	MW-2D	MW-2D	MW-2D	MW-2D	MW-2D	MW-2D	MW-2D	MW-2D[3]	MW-2D
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	39 - 44 ft	39 - 44 ft	39 - 44 ft	39 - 44 ft	39 - 44 ft	39 - 44 ft	39 - 44 ft	39 - 44 ft	39 - 44 ft	39 - 44 ft	39 - 44 ft	39 - 44 ft	39 - 44 ft	39 - 44 ft	39 - 44 ft	39 - 44 ft	39 - 44 ft	39 - 44 ft	39 - 44 ft	39 - 44 ft	39 - 44 ft	39 - 44 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	04/08/2010	10/01/2010	03/30/2011	04/11/2012	01/15/2013	04/20/2013	07/18/2013	10/10/2013	04/17/2014	10/16/2014	04/14/2015	10/21/2015	01/25/2016	04/21/2016	07/19/2016	10/13/2016	1/19/2017	04/12/2017	10/04/2017	04/05/2018	10/16/2018	10/16/2018	04/12/2019
VOCs																									
1,1,1,2-Tetrachloroethane	7	70	< 8	< 0.25	< 4	< 0.31	< 0.5	< 0.5	< 0.25	< 0.25	< 0.25	< 0.50	< 0.25	< 0.46	< 0.55	< 1.1	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.27
1,1,1-Trichloroethane	40	200	< 16	< 0.5	< 8	< 0.26	< 0.4	< 0.4	< 0.2	< 0.2	< 0.20	< 0.40	< 0.20	< 0.38	< 0.50	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	< 0.10	< 0.10	< 0.10	< 0.24
1,1,2-Trichloroethane	0.5	5	< 8	< 0.25	< 4	< 0.3	< 0.56	< 0.56	< 0.28	< 0.28	< 0.28	< 0.56	< 0.28	< 0.35	< 0.50	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	< 0.10	< 0.10	< 0.10	< 0.55
1,1-Dichloroethene	0.7	7	< 16	< 0.5	< 8	< 0.29	< 0.62	< 0.62	< 0.31	< 0.31	< 0.31	< 0.62	< 0.31	< 0.39	< 0.70	< 1.4	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.24
1,2,4-Trimethylbenzene	96	480	< 6.4	< 0.2	< 3.2	< 0.22	< 0.28	< 0.28	< 0.14	< 0.14	< 0.14	< 0.28	< 0.14	< 0.36	< 0.30	< 0.60	< 0.060	< 0.060	< 0.060	< 0.060	< 0.06	< 0.060	< 0.060	< 0.060	< 0.84
1,2-Dibromoethane	0.005	0.05	< 6.4	< 0.2	< 3.2	< 0.45	< 0.72	< 0.72	< 0.36	< 0.36	< 0.36	< 0.72	< 0.36	< 0.39	< 0.65	< 1.3	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.83
1,2-Dichlorobenzene	60	600	< 6.4	< 0.2	< 3.2	< 0.21	< 0.54	< 0.54	< 0.27	< 0.27	< 0.27	< 0.54	< 0.27	< 0.33	0.45 J	< 0.76	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.71
1,2-Dichloropropane	0.5	5	< 16	< 0.5	< 8	< 0.36	< 0.4	< 0.4	< 0.2	< 0.2	< 0.20	< 0.40	< 0.20	< 0.43	< 0.50	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	< 0.10	< 0.10	< 0.10	< 0.28
1,2,3-Trichlorobenzene	NE	NE	< 8	< 0.25	< 4	< 0.36	< 0.48	< 0.48	< 0.24	< 0.24	< 0.24	< 0.48	< 0.24	< 0.46	< 0.23	< 0.45	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	0.050 J	< 0.045	< 0.045	< 0.63
1,2,4-Trichlorobenzene	14	70	< 8	< 0.25	< 4	< 0.22	< 0.62	< 0.62	< 0.31	< 0.31	< 0.31	< 0.62	< 0.31	< 0.34	0.85 J	< 0.77	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.95
1,3,5-Trimethylbenzene	96	480	< 6.4	< 0.2	< 3.2	< 0.23	< 0.36	< 0.36	< 0.18	< 0.18	< 0.18	< 0.36	< 0.18	< 0.25	< 0.38	< 0.75	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.87
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 15	< 30	< 3.0	< 3.0	< 3.0	< 3.0	< 3	< 3.0	< 3.0	< 3.0	< 2.9
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4.8	< 9.5	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 2.5
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.9	< 7.7	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 1.5
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 17	< 34	< 3.4	< 3.4	< 3.4	15 BJ	< 3.4	< 3.4	< 3.4	< 3.4	< 2.7
Benzene	0.5	5	< 6.4	< 0.2	< 3.2	< 0.12	< 0.15	< 0.15	< 0.074	< 0.074	< 0.074	< 0.15	< 0.074	< 0.15	< 0.45	< 0.89	< 0.089	< 0.089	< 0.089	< 0.089	< 0.089	< 0.089	< 0.089	< 0.089	< 0.25
Bromodichloromethane	0.06	0.6	< 6.4	< 0.2	< 3.2	< 0.23	< 0.34	< 0.34	< 0.17	< 0.17	< 0.17	< 0.34	< 0.17	< 0.37	< 0.39	< 0.77	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.36
Bromoform	0.44	4.4	< 6.4	< 0.2	< 3.2	< 0.45	< 0.56	< 0.56	< 0.28	< 0.28	< 0.28	< 0.56	< 0.28	< 0.48	< 0.44	< 0.88	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 4.0
Bromomethane	1	10	< 16	< 0.5	< 8	< 0.49	< 0.62	< 0.62	< 0.31	< 0.31	< 0.31	< 0.62	< 0.31	< 0.80	< 3.0	< 5.9	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.97
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.27	< 0.53	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.37
Carbon tetrachloride	0.5	5	< 26	< 0.8	< 13	< 0.28	< 0.52	< 0.52	< 0.26	< 0.26	< 0.26	< 0.52	< 0.26	< 0.38	< 0.19	< 0.38	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.17
Chloroform	0.6	6	< 6.4	< 0.2	< 3.2	< 0.25	< 0.4	< 0.4	< 0.2	< 0.2	< 0.20	< 0.40	< 0.20	< 0.37	< 0.31	< 0.62	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 1.3
Chloromethane	3	30	< 9.6	< 0.3	< 4.8	< 0.24	< 0.36	< 0.36	< 0.18	< 0.18	< 0.18	< 0.36	< 0.18	< 0.32	< 0.80	< 1.6	0.20 J	0.81 BJ	0.33 BJ	0.30 J+	1.4 J	0.28 J+	< 0.31 U	< 0.25 U	< 2.2
cis-1,2-Dichloroethene	7	70	< 16	0.67	< 8	< 0.22	< 0.24	< 0.24	< 0.12	< 0.12	< 0.12	< 0.24	< 0.12	< 0.41	< 0.55	< 1.1	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.27
Dichlorodifluoromethane	200	1000	< 16	< 0.5	< 8	< 0.26	< 0.4	< 0.4	< 0.2	< 0.2	< 0.20	< 0.40	< 0.20	< 0.54	< 0.55	< 1.1	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	0.15 J+	< 0.11	< 0.11	< 0.50
Ethylbenzene	140	700	< 16	< 0.5	< 8	< 0.14	< 0.26	< 0.26	< 0.13	< 0.13	< 0.13	< 0.26	< 0.13	< 0.18	< 0.27	< 0.54	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.22
Isopropylbenzene	NE	NE	< 6.4	< 0.2	< 3.2	< 0.21	< 0.28	< 0.28	< 0.14	< 0.14	< 0.14	< 0.28	< 0.14	< 0.39	< 0.41	< 0.81	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.39
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.29	< 0.57	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.47
Methyl tert-butyl ether	12	60	< 16	< 0.5	< 8	< 0.28	< 0.48	< 0.48	< 0.24	< 0.24	< 0.24	< 0.48	< 0.24	< 0.39	< 0.70	< 1.4	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 1.2
Methylene chloride	0.5	5	< 32	< 1	< 16	***8.1***	< 1.4	< 1.4	< 0.68	< 0.68	< 0.68	< 1.4	< 0.68	< 1.6	< 0.70	< 1.4	< 0.14	< 0.14	***0.82 BJ***	< 0.14	< 0.14	< 0.14	< 0.27 U	< 0.27 U	< 0.58
Naphthalene	10	100	< 8	< 0.25	< 4	< 0.24	< 0.32	< 0.32	< 0.16	< 0.16	< 0.16	< 0.32	< 0.16	< 0.34	< 0.44	< 0.88	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	0.33 J	< 0.088	< 0.088	< 1.2
n-Butylbenzene	NE	NE	< 6.4	< 0.2	< 3.2	< 0.21	< 0.26	< 0.26	< 0.13	< 0.13	< 0.13	< 0.26	< 0.13	< 0.39	< 0.70	< 1.4	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.71
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.1	< 2.1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 1.7
n-Propylbenzene	NE	NE	< 16	< 0.5	< 8	< 0.19	< 0.26	< 0.26	< 0.13	< 0.13	< 0.13	< 0.26	< 0.13	< 0.41	< 0.50	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	< 0.10	< 0.10	< 0.10	< 0.81
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.29	< 0.58	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.26
p-Isopropyltoluene	NE	NE	< 6.4	< 0.2	< 3.2	< 0.24	< 0.34	< 0.34	< 0.17	< 0.17	< 0.17	< 0.34	< 0.17	< 0.36	< 0.43	< 0.85	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.80
sec-Butylbenzene	NE	NE	< 8	< 0.25	< 4	< 0.19	< 0.3	< 0.3	< 0.15	< 0.15	< 0.15	< 0.30	< 0.15	< 0.40	< 0.65	< 1.3	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.85
Styrene	10	100	< 16	< 0.5	< 8	< 0.26	< 0.2	< 0.2	< 0.1	< 0.1	< 0.10	< 0.20	< 0.10	< 0.39	< 0.33	< 0.65	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.47
tert-Butylbenzene	NE	NE	< 6.4	< 0.2	< 3.2	< 0.24	< 0.28	< 0.28	< 0.14	< 0.14	< 0.14	< 0.28	< 0.14	< 0.40	< 0.60	< 1.2	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.30
Tetrachloroethene	0.5	5	***1400***	***1300***	***1000***	***610***	***720***	***910***	***580***	***440***	***450***	***540***	***250***	***210***	***85***	***290***	***81***	***28***	***22***	***19***	***38***	***29***	***20***	***18***	***17.1***
Toluene	160	800	< 16	< 0.5	< 8	< 0.15	< 0.22	< 0.22	< 0.11	< 0.11	< 0.11	< 0.22	< 0.11	< 0.15	0.30 J	< 0.53	< 0.053	0.090 J	0.090 BJ	< 0.053	< 0.053	0.060 J	< 0.053	< 0.053	< 0.17
trans-1,2-Dichloroethene	20	100	< 16	< 0.5	< 8	< 0.27	< 0.5	< 0.5	< 0.25	< 0.25	< 0.25	< 0.50	< 0.25	< 0.35	< 0.55	< 1.1	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 1.1
Trichloroethene	0.5	5	***20***	***16***	***9.8***	***5.4***	***5.1***	***6.4***	***4.1***	***3***	***2.5***	***2.1***	***1.2***	***0.73***	***0.60 J***	< 0.62	0.24 J	0.10 J	0.12 BJ	0.12 J	0.09 J	< 0.062	< 0.062	< 0.062	< 0.26
Trichlorofluoromethane	698	3490	< 64	< 2	< 32	< 0.22	< 0.38	< 0.38	< 0.19	< 0.19	< 1.0	< 2.0	< 1.0	< 1.0	< 2.5	< 5.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.5	< 0.5	< 0.13	< 0.13	< 0.21
Vinyl chloride	0.02	0.2	< 6.4	< 0.2	< 3.2	< 0.13	< 0.2	< 0.2	< 0.1	< 0.1	< 0.10	< 0.20	< 0.10	< 0.20	< 0.80	< 1.6	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.17
Xylenes, Total	400	2000	< 16	< 0.5	< 8	< 0.3	< 0.14	< 0.14	< 0.068	< 0.068	< 0.068	< 0.14	< 0.068	< 0.22	< 0.29	< 0.58	< 0.058	< 0.058	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 1.5
Total PCBs																									
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	< 0.18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0072	< 0.0072	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	< 0.096	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0042	< 0.0042	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	< 0.14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.013	< 0.013	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	< 0.11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.011	< 0.011	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	NA
Dissolved PCBs																									
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																									
Total Dissolved Solids (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1220	1220	NA
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.4	< 1.4	NA

Notes on Page 56.

Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-3S	MW-3S	MW-3S	MW-3S	MW-3S	MW-3S	MW-3S	MW-3S	MW-3S	MW-3S	MW-3S	MW-3S	MW-3S	MW-3S[1]	MW-3S[1,3]	MW-3S	MW-3S[1]	MW-3S[1]	MW-3S	MW-3S	MW-3S[1]	MW-3S	MW-3S	MW-3S	MW-3S	MW-3S
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	04/07/2010	03/29/2011	04/12/2012	11/30/2012	12/18/2012	12/19/2012	12/28/2012	01/03/2013	01/15/2013	01/15/2013	01/31/2013	02/12/2013	02/12/2013	02/12/2013	02/12/2013	02/28/2013	03/12/2013	04/16/2013	07/16/2013	10/10/2013	04/16/2014	10/22/2014	04/13/2015	10/21/2015	10/13/2016	10/05/2017	10/12/2018
VOCs																												
1,1,1,2-Tetrachloroethane	7	70	< 8	< 6.3	< 1.6	< 1.3	NA	NA	NA	NA	NA	< 0.25	NA	NA	NA	< 0.25	< 0.25	NA	< 0.25	< 0.25	< 0.5	< 0.5	< 1.3	< 0.25	< 1.3	< 0.92	< 2.2	< 2.8	< 5.5
1,1,1-Trichloroethane	40	200	< 16	< 13	< 1.3	< 1	NA	NA	NA	NA	NA	< 0.2	NA	NA	NA	< 0.2	< 0.2	NA	< 0.2	< 0.2	< 0.4	< 0.4	< 1.0	< 0.20	< 1.0	< 0.76	< 2.0	< 2.5	< 5.0
1,1,2-Trichloroethane	0.5	5	< 8	< 6.3	< 1.5	< 1.4	NA	NA	NA	NA	NA	< 0.28	NA	NA	NA	< 0.28	< 0.28	NA	< 0.28	< 0.28	< 0.56	< 0.56	< 1.4	< 0.28	< 1.4	< 0.70	< 2.0	< 2.5	< 5.0
1,1-Dichloroethene	0.7	7	< 16	< 13	< 1.5	< 1.6	NA	NA	NA	NA	NA	< 0.31	NA	NA	NA	< 0.31	< 0.31	NA	< 0.31	< 0.31	< 0.62	< 0.62	< 1.6	< 0.31	< 1.6	< 0.78	< 2.8	< 3.5	< 7.0
1,2,4-Trimethylbenzene	96	480	< 6.4	< 5	< 1.1	< 0.7	NA	NA	NA	NA	NA	< 0.14	NA	NA	NA	< 0.14	< 0.14	NA	< 0.14	< 0.14	< 0.28	< 0.28	< 0.70	< 0.14	< 0.70	< 0.72	< 1.2	< 1.5	< 3.0
1,2-Dibromoethane	0.005	0.05	< 6.4	< 5	< 2.3	< 1.8	NA	NA	NA	NA	NA	< 0.36	NA	NA	NA	< 0.36	< 0.36	NA	< 0.36	< 0.36	< 0.72	< 0.72	< 1.8	< 0.36	< 1.8	< 0.77	< 2.6	< 3.3	< 6.5
1,2-Dichlorobenzene	60	600	< 6.4	< 5	< 1.1	< 1.4	NA	NA	NA	NA	NA	< 0.27	NA	NA	NA	< 0.27	< 0.27	NA	< 0.27	< 0.27	< 0.54	< 0.54	< 1.4	< 0.27	< 1.4	< 0.67	< 1.5	< 1.9	< 3.8
1,2-Dichloropropane	0.5	5	< 16	< 13	< 1.8	< 1	NA	NA	NA	NA	NA	< 0.2	NA	NA	NA	< 0.2	< 0.2	NA	< 0.2	< 0.2	< 0.4	< 0.4	< 1.0	< 0.20	< 1.0	< 0.86	< 2.0	< 2.5	< 5.0
1,2,3-Trichlorobenzene	NE	NE	< 8	< 6.3	< 1.8	< 1.2	NA	NA	NA	NA	NA	< 0.24	NA	NA	NA	< 0.24	< 0.24	NA	< 0.24	< 0.24	< 0.48	< 0.48	< 1.2	< 0.24	< 1.2	< 0.92	< 0.90	< 1.1	< 2.3
1,2,4-Trichlorobenzene	14	70	< 8	< 6.3	< 1.1	< 1.6	NA	NA	NA	NA	NA	< 0.31	NA	NA	NA	< 0.31	< 0.31	NA	< 0.31	< 0.31	< 0.62	< 0.62	< 1.6	< 0.31	< 1.6	< 0.68	< 1.5	< 1.9	< 3.9
1,3,5-Trimethylbenzene	96	480	< 6.4	< 5	< 1.2	< 0.9	NA	NA	NA	NA	NA	< 0.18	NA	NA	NA	< 0.18	< 0.18	NA	< 0.18	< 0.18	< 0.36	< 0.36	< 0.90	< 0.18	< 0.90	< 0.51	< 1.5	< 1.9	< 3.8
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 60	< 75	< 150
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 19	< 24	< 48
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 15	< 19	< 39
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 68	< 85	< 170
Benzene	0.5	5	< 6.4	< 5	< 0.6	***1.5 J***	NA	NA	NA	NA	NA	0.42 J	NA	NA	NA	***0.88***	***0.9***	NA	***1***	***0.6***	***0.70 J***	***1***	< 0.37	***0.67***	< 0.37	< 0.29	< 1.8	< 2.2	< 4.5
Bromodichloromethane	0.06	0.6	< 6.4	< 5	< 1.2	< 0.85	NA	NA	NA	NA	NA	< 0.17	NA	NA	NA	< 0.17	< 0.17	NA	< 0.17	< 0.17	< 0.34	< 0.34	< 0.85	< 0.17	< 0.85	< 0.74	< 1.5	< 1.9	< 3.9
Bromoform	0.44	4.4	< 6.4	< 5	< 2.3	< 1.4	NA	NA	NA	NA	NA	< 0.28	NA	NA	NA	< 0.28	< 0.28	NA	< 0.28	< 0.28	< 0.56	< 0.56	< 1.4	< 0.28	< 1.4	< 0.97	< 1.8	< 2.2	< 4.4
Bromomethane	1	10	< 16	< 13	< 2.5	< 1.6	NA	NA	NA	NA	NA	< 0.31	NA	NA	NA	< 0.31	< 0.31	NA	< 0.31	< 0.31	< 0.62	< 0.62	< 1.6	< 0.31	< 1.6	< 1.6	< 12	< 15	< 30
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.1	< 1.3	< 2.7
Carbon tetrachloride	0.5	5	< 26	< 20	< 1.4	< 1.3	NA	NA	NA	NA	NA	< 0.26	NA	NA	NA	< 0.26	< 0.26	NA	< 0.26	< 0.26	< 0.52	< 0.52	< 1.3	< 0.26	< 1.3	< 0.77	< 0.76	< 0.95	< 1.9
Chloroform	0.6	6	< 6.4	< 5	***3.7 J***	***5***	NA	NA	NA	NA	NA	***1.6***	NA	NA	NA	***3***	***3.2***	NA	***4.1***	***2.7***	***2.8***	***3.7***	***3.4 J***	***2.4***	< 1.0	***3***	< 1.2	< 1.6	< 3.1
Chloromethane	3	30	< 9.6	< 7.5	< 1.2	< 0.9	NA	NA	NA	NA	NA	< 0.18	NA	NA	NA	< 0.18	< 0.18	NA	< 0.18	< 0.18	< 0.36	< 0.36	< 0.90	< 0.18	< 0.90	< 0.64	***11 BJ***	< 4	< 17 U
cis-1,2-Dichloroethene	7	70	***83***	***37***	***89***	***98***	NA	NA	NA	NA	NA	< 0.12	NA	NA	NA	1.6	1.8	NA	5.0	< 0.12	***14***	***58***	< 0.60	***35***	***54***	***36***	***29***	***20***	***21 J***
Dichlorodifluoromethane	200	1000	< 16	< 13	< 1.3	< 1	NA	NA	NA	NA	NA	< 0.2	NA	NA	NA	< 0.2	< 0.2	NA	< 0.2	< 0.2	< 0.4	< 0.4	< 1.0	< 0.20	< 1.0	< 1.1	< 2.2	< 2.8	< 5.5
Ethylbenzene	140	700	< 16	< 13	< 0.7	< 0.65	NA	NA	NA	NA	NA	0.36 J	NA	NA	NA	< 0.13	< 0.13	NA	< 0.13	< 0.13	< 0.26	< 0.26	< 0.65	< 0.13	< 0.65	< 0.37	< 1.1	< 1.4	< 2.7
Isopropylbenzene	NE	NE	< 6.4	< 5	< 1.1	< 0.7	NA	NA	NA	NA	NA	< 0.14	NA	NA	NA	< 0.14	< 0.14	NA	< 0.14	< 0.14	< 0.28	< 0.28	< 0.70	< 0.14	< 0.70	< 0.77	< 1.6	< 2	< 4.1
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.1	< 1.4	< 2.9
Methyl tert-butyl ether	12	60	< 16	< 13	< 1.4	< 1.2	NA	NA	NA	NA	NA	< 0.24	NA	NA	NA	< 0.24	< 0.24	NA	< 0.24	< 0.24	< 0.48	< 0.48	< 1.2	< 0.24	< 1.2	< 0.79	< 2.8	< 3.5	< 7.0
Methylene chloride	0.5	5	< 32	< 25	< 3.2	< 3.4	NA	NA	NA	NA	NA	< 0.68	NA	NA	NA	< 0.68	< 0.68	NA	< 0.68	< 0.68	< 1.4	< 1.4	< 3.4	< 0.68	< 3.4	***17***	< 2.8	< 3.5	< 7.0
Naphthalene	10	100	< 8	< 6.3	< 1.2	< 0.8	NA	NA	NA	NA	NA	< 0.16	NA	NA	NA	< 0.16	< 0.16	NA	< 0.16	< 0.16	< 0.32	< 0.32	< 0.80	< 0.16	< 0.80	< 0.67	< 1.8	< 2.2	< 4.4
n-Butylbenzene	NE	NE	< 6.4	< 5	< 1.1	< 0.65	NA	NA	NA	NA	NA	< 0.13	NA	NA	NA	< 0.13	< 0.13	NA	< 0.13	< 0.13	< 0.26	< 0.26	< 0.65	< 0.13	< 0.65	< 0.78	< 2.8	< 3.5	< 7.0
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4.2	< 5.3	< 11
n-Propylbenzene	NE	NE	< 16	< 13	< 0.95	< 0.65	NA	NA	NA	NA	NA	< 0.13	NA	NA	NA	< 0.13	< 0.13	NA	< 0.13	< 0.13	< 0.26	< 0.26	< 0.65	< 0.13	< 0.65	< 0.83	< 2.0	< 2.5	< 5.0
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.2	< 1.5	< 2.9
p-Isopropyltoluene	NE	NE	< 6.4	< 5	< 1.2	< 0.85	NA	NA	NA	NA	NA	< 0.17	NA	NA	NA	< 0.17	< 0.17	NA	< 0.17	< 0.17	< 0.34	< 0.34	< 0.85	< 0.17	< 0.85	< 0.72	< 1.7	< 2.1	< 4.3
sec-Butylbenzene	NE	NE	< 8	< 6.3	< 0.95	< 0.75	NA	NA	NA	NA	NA	< 0.15	NA	NA	NA	< 0.15	< 0.15	NA	< 0.15	< 0.15	< 0.3	< 0.3	< 0.75	< 0.15	< 0.75	< 0.80	< 2.6	< 3.3	< 6.5
Styrene	10	100	< 16	< 13	< 1.3	< 0.5	NA	NA	NA	NA	NA	< 0.1	NA	NA	NA	< 0.1	< 0.1	NA	< 0.1	< 0.1	< 0.2	< 0.2	< 0.50	< 0.10	< 0.50	< 0.77	< 1.3	< 1.6	< 3.3
tert-Butylbenzene	NE	NE	< 6.4	< 5	< 1.2	< 0.7	NA	NA	NA	NA	NA	< 0.14	NA	NA	NA	< 0.14	< 0.14	NA	< 0.14	< 0.14	< 0.28	< 0.28	< 0.70	< 0.14	< 0.70	< 0.80	< 2.4	< 3	< 6.0
Tetrachloroethene	0.5	5	***2000***	***1100***	***1600***	***2400***	NA	NA	NA	NA	***88***	NA	NA	NA	***600***	***600***	NA	***750***	***20***	***840***	***1000***	***630***	***770***	***1300***	***1300***	***860***	***690 B***	***1100***
Toluene	160	800	< 16	< 13	< 0.75	< 0.55	NA	NA	NA	NA	NA	0.38 J	NA	NA	NA	< 0.11	< 0.11	NA	< 0.11	< 0.11	< 0.22	< 0.22	< 0.55	< 0.11	< 0.55	< 0.30	< 1.1	< 1.3	< 2.7
trans-1,2-Dichloroethene	20	100	< 16	< 13	5.4	6.0	NA	NA	NA	NA	NA	< 0.25	NA	NA	NA	< 0.25	< 0.25	NA	< 0.25	< 0.25	< 0.5	4.9	< 1.3	2.7	< 1.3	3.1	3.4 J	< 2.8	< 5.5
Trichloroethene	0.5	5	***130***	***66***	***120***	***160***	NA	NA	NA	NA	NA	< 0.19	NA	NA	***6.8***	***6.7***	NA	***16***	< 0.19	***26***	***100***	***6.9***	***82***	***120***	***90***	***86***	***65***	***73***
Trichlorofluoromethane	698	3490	< 64	< 50	< 1.1	< 0.95	NA	NA	NA	NA	NA	< 0.19	NA	NA	NA	< 0.19	< 0.19	NA	< 0.19	< 0.19	< 0.38	< 0.38	< 5.0	< 1.0	< 5.0	< 2.0	< 10	< 13	< 6.5
Vinyl chloride	0.02	0.2	< 6.4	< 5	< 0.65	< 0.5	NA	NA	NA	NA	NA	< 0.1	NA	NA	NA	< 0.1	< 0.1	NA	< 0.1	< 0.1	< 0.2	< 0.2	< 0.50	< 0.10	< 0.50	< 0.41	< 3.2	< 4	< 8.0
Xylenes, Total	400	2000	< 16	< 13	< 1.5	< 0.34	NA	NA	NA	NA	NA	2.4	NA	NA	NA	< 0.068	< 0.068	NA	< 0.068	< 0.068	< 0.14	< 0.14	< 0.34	< 0.068	< 0.34	< 0.44	< 1.2	< 2.9	< 5.8
Total PCBs																												
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.096	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																												
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																												
Total Dissolved Solids (mg/L)	NE	NE	NA	NA	NA	2500	12000	7100	3400	3800	2700	3400	4700	8600	8200	NA	NA	13000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-3D	MW-3D	MW-3D	MW-3D	MW-3D	MW-3D	MW-3D	MW-3D	MW-3D	MW-3D	MW-3D	MW-3D	MW-3D	MW-3D	MW-3D
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	48 - 53 ft	48 - 53 ft	48 - 53 ft	48 - 53 ft	48 - 53 ft	48 - 53 ft	48 - 53 ft	48 - 53 ft	48 - 53 ft	48 - 53 ft	48 - 53 ft	48 - 53 ft	48 - 53 ft	48 - 53 ft	48 - 53 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	04/07/2010	10/01/2010	03/30/2011	04/12/2012	11/30/2012	12/19/2012	12/28/2012	01/03/2013	01/16/2013	01/31/2013	02/12/2013	02/12/2013	02/28/2013	03/13/2013	04/16/2013
VOCs																	
1,1,1,2-Tetrachloroethane	7	70	< 8	< 0.25	< 5	< 0.31	< 1.3	NA	NA	NA	< 0.25	NA	NA	< 0.25	NA	< 0.25	< 0.25
1,1,1-Trichloroethane	40	200	< 16	< 0.5	< 10	< 0.26	< 1	NA	NA	NA	< 0.2	NA	NA	< 0.2	NA	< 0.2	< 0.2
1,1,2-Trichloroethane	0.5	5	< 8	< 0.25	< 5	< 0.3	< 1.4	NA	NA	NA	< 0.28	NA	NA	< 0.28	NA	< 0.28	< 0.28
1,1-Dichloroethene	0.7	7	< 16	< 0.5	< 10	< 0.29	< 1.6	NA	NA	NA	< 0.31	NA	NA	< 0.31	NA	< 0.31	< 0.31
1,2,4-Trimethylbenzene	96	480	< 6.4	< 0.2	< 4	< 0.22	< 0.7	NA	NA	NA	< 0.14	NA	NA	< 0.14	NA	< 0.14	< 0.14
1,2-Dibromoethane	0.005	0.05	< 6.4	< 0.2	< 4	< 0.45	< 1.8	NA	NA	NA	< 0.36	NA	NA	< 0.36	NA	< 0.36	< 0.36
1,2-Dichlorobenzene	60	600	< 6.4	< 0.2	< 4	< 0.21	< 1.4	NA	NA	NA	< 0.27	NA	NA	< 0.27	NA	< 0.27	< 0.27
1,2-Dichloropropane	0.5	5	< 16	< 0.5	< 10	< 0.36	< 1	NA	NA	NA	< 0.2	NA	NA	< 0.2	NA	< 0.2	< 0.2
1,2,3-Trichlorobenzene	NE	NE	< 8	< 0.25	< 5	< 0.36	< 1.2	NA	NA	NA	< 0.24	NA	NA	< 0.24	NA	< 0.24	< 0.24
1,2,4-Trichlorobenzene	14	70	< 8	< 0.25	< 5	< 0.22	< 1.6	NA	NA	NA	< 0.31	NA	NA	< 0.31	NA	< 0.31	< 0.31
1,3,5-Trimethylbenzene	96	480	< 6.4	< 0.2	< 4	< 0.23	< 0.9	NA	NA	NA	< 0.18	NA	NA	< 0.18	NA	< 0.18	< 0.18
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	0.5	5	< 6.4	0.31	< 4	0.39 J	< 0.37	NA	NA	NA	0.32 J	NA	NA	0.29 J	NA	< 0.074	0.27 J
Bromodichloromethane	0.06	0.6	< 6.4	< 0.2	< 4	< 0.23	< 0.85	NA	NA	NA	< 0.17	NA	NA	< 0.17	NA	< 0.17	< 0.17
Bromoform	0.44	4.4	< 6.4	< 0.2	< 4	< 0.45	< 1.4	NA	NA	NA	< 0.28	NA	NA	< 0.28	NA	< 0.28	< 0.28
Bromomethane	1	10	< 16	< 0.5	< 10	< 0.49	< 1.6	NA	NA	NA	< 0.31	NA	NA	< 0.31	NA	< 0.31	< 0.31
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.5	5	< 26	< 0.8	< 16	< 0.28	< 1.3	NA	NA	NA	< 0.26	NA	NA	< 0.26	NA	< 0.26	< 0.26
Chloroform	0.6	6	< 6.4	***0.78***	< 4	***0.93 J***	< 1	NA	NA	NA	***0.89 J***	NA	NA	< 0.2	NA	< 0.2	< 0.2
Chloromethane	3	30	< 9.6	< 0.3	< 6	< 0.24	< 0.9	NA	NA	NA	< 0.18	NA	NA	< 0.18	NA	< 0.18	< 0.18
cis-1,2-Dichloroethene	7	70	***510***	***310***	***300***	***350***	***520***	NA	NA	NA	***290***	NA	NA	***200***	NA	***54***	***210***
Dichlorodifluoromethane	200	1000	< 16	< 0.5	< 10	< 0.26	< 1	NA	NA	NA	< 0.2	NA	NA	< 0.2	NA	< 0.2	< 0.2
Ethylbenzene	140	700	< 16	< 0.5	< 10	< 0.14	< 0.65	NA	NA	NA	< 0.13	NA	NA	< 0.13	NA	< 0.13	< 0.13
Isopropylbenzene	NE	NE	< 6.4	< 0.2	< 4	< 0.21	< 0.7	NA	NA	NA	< 0.14	NA	NA	< 0.14	NA	< 0.14	< 0.14
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	12	60	< 16	< 0.5	< 10	< 0.28	< 1.2	NA	NA	NA	< 0.24	NA	NA	< 0.24	NA	< 0.24	< 0.24
Methylene chloride	0.5	5	< 32	< 1	< 20	< 0.63	< 3.4	NA	NA	NA	< 0.68	NA	NA	< 0.68	NA	< 0.68	< 0.68
Naphthalene	10	100	< 8	< 0.25	< 5	< 0.24	< 0.8	NA	NA	NA	< 0.16	NA	NA	< 0.16	NA	< 0.16	< 0.16
n-Butylbenzene	NE	NE	< 6.4	< 0.2	< 4	< 0.21	< 0.65	NA	NA	NA	< 0.13	NA	NA	< 0.13	NA	< 0.13	< 0.13
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	NE	NE	< 16	< 0.5	< 10	< 0.19	< 0.65	NA	NA	NA	< 0.13	NA	NA	< 0.13	NA	< 0.13	< 0.13
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	NE	NE	< 6.4	< 0.2	< 4	< 0.24	< 0.85	NA	NA	NA	< 0.17	NA	NA	< 0.17	NA	< 0.17	< 0.17
sec-Butylbenzene	NE	NE	< 8	< 0.25	< 5	< 0.19	< 0.75	NA	NA	NA	< 0.15	NA	NA	< 0.15	NA	< 0.15	< 0.15
Styrene	10	100	< 16	< 0.5	< 10	< 0.26	< 0.5	NA	NA	NA	< 0.1	NA	NA	< 0.1	NA	< 0.1	< 0.1
tert-Butylbenzene	NE	NE	< 6.4	< 0.2	< 4	< 0.24	< 0.7	NA	NA	NA	< 0.14	NA	NA	< 0.14	NA	< 0.14	< 0.14
Tetrachloroethene	0.5	5	***1700***	***1500***	***1200***	***1100***	***1800***	NA	NA	NA	***660***	NA	NA	***760***	NA	***150***	***740***
Toluene	160	800	< 16	< 0.5	< 10	< 0.15	< 0.55	NA	NA	NA	< 0.11	NA	NA	< 0.11	NA	< 0.11	< 0.11
trans-1,2-Dichloroethene	20	100	< 16	6.6	< 10	5.9	7.7	NA	NA	NA	6.0	NA	NA	4.0	NA	1.1	4.2
Trichloroethene	0.5	5	***270***	***200***	***170***	***160***	***250***	NA	NA	NA	***140***	NA	NA	***130***	NA	***30***	***120***
Trichlorofluoromethane	698	3490	< 64	< 2	< 40	< 0.22	< 0.95	NA	NA	NA	< 0.19	NA	NA	< 0.19	NA	< 0.19	< 0.19
Vinyl chloride	0.02	0.2	< 6.4	< 0.2	< 4	< 0.13	< 0.5	NA	NA	NA	< 0.1	NA	NA	< 0.1	NA	< 0.1	< 0.1
Xylenes, Total	400	2000	< 16	< 0.5	< 10	< 0.3	< 0.34	NA	NA	NA	< 0.068	NA	NA	< 0.068	NA	< 0.068	< 0.068
Total PCBs																	
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	< 0.18	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	< 0.096	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	< 0.14	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	< 0.11	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA
Dissolved PCBs																	
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																	
Total Dissolved Solids (mg/L)	NE	NE	NA	NA	NA	NA	1700	2100	2400	2200	2000	480	4400	4200	5200	NA	NA
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-3D	MW-3D	MW-3D	MW-3D	MW-3D	MW-3D	MW-3D	MW-3D	MW-3D[3]	MW-3D	MW-3D	MW-3D	MW-3D	MW-3D	MW-3D	MW-3D[3]	MW-3D	MW-3D	MW-3D[3]
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	48 - 53 ft	48 - 53 ft	48 - 53 ft	48 - 53 ft	48 - 53 ft	48 - 53 ft	48 - 53 ft	48 - 53 ft	48 - 53 ft	48 - 53 ft	48 - 53 ft	48 - 53 ft	48 - 53 ft	48 - 53 ft	48 - 53 ft	48 - 53 ft	48 - 53 ft	48 - 53 ft	48 - 53 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	07/16/2013	10/10/2013	04/18/2014	10/16/2014	04/14/2015	10/21/2015	01/25/2016	04/22/2016	04/22/2016	07/20/2016	10/13/2016	1/19/2017	04/12/2017	10/05/2017	04/06/2018	04/06/2018	10/12/2018	04/09/2019	04/09/2019
VOCs																					
1,1,1,2-Tetrachloroethane	7	70	< 0.5	< 0.25	< 0.50	< 0.50	< 0.25	< 0.46	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 1.1	< 0.11	< 0.54	< 1.1
1,1,1-Trichloroethane	40	200	< 0.4	< 0.2	< 0.40	< 0.40	< 0.20	< 0.38	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	< 0.10	< 1.0	< 0.10	< 0.49	< 0.98
1,1,2-Trichloroethane	0.5	5	< 0.56	< 0.28	< 0.56	< 0.56	< 0.28	< 0.35	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	< 0.10	< 1.0	< 0.10	< 1.1	< 2.2
1,1-Dichloroethene	0.7	7	< 0.62	< 0.31	< 0.62	< 0.62	< 0.31	< 0.39	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 1.4	< 0.14	< 0.49	< 0.98
1,2,4-Trimethylbenzene	96	480	< 0.28	< 0.14	< 0.28	< 0.28	< 0.14	< 0.36	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.06	< 0.060	< 0.60	< 0.060	< 1.7	< 3.4
1,2-Dibromoethane	0.005	0.05	< 0.72	< 0.36	< 0.72	< 0.72	< 0.36	< 0.39	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 1.3	< 0.13	< 1.7	< 3.3
1,2-Dichlorobenzene	60	600	< 0.54	< 0.27	< 0.54	< 0.54	< 0.27	< 0.33	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.76	< 0.076	< 1.4	< 2.8
1,2-Dichloropropane	0.5	5	< 0.4	< 0.2	< 0.40	< 0.40	< 0.20	< 0.43	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	< 0.10	< 1.0	< 0.10	< 0.57	< 1.1
1,2,3-Trichlorobenzene	NE	NE	< 0.48	< 0.24	< 0.48	< 0.48	< 0.24	< 0.46	< 0.045	< 0.045	< 0.045	0.18 BJ	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.45	< 0.045	< 1.3	< 2.5
1,2,4-Trichlorobenzene	14	70	< 0.62	< 0.31	< 0.62	< 0.62	< 0.31	< 0.34	< 0.077	< 0.077	< 0.077	0.16 BJ	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.77	< 0.077	< 1.9	< 3.8
1,3,5-Trimethylbenzene	96	480	< 0.36	< 0.18	< 0.36	< 0.36	< 0.18	< 0.25	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.75	< 0.075	< 1.7	< 3.5
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	< 3.0	4.0 J	5.7 J	< 3.0	< 3.0	< 3.0	< 3.0	< 3	< 3.0	< 30	< 3.0	< 5.9	< 11.7
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 9.5	< 0.95	< 4.9	< 9.8
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 7.7	< 0.77	< 3.1	< 6.1
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	< 3.4	14 J	15 J	< 3.4	12 J	33	18 BJ	40	7.5 J+	42 J+	< 3.4	< 5.5	< 11.0
Benzene	0.5	5	< 0.15	0.36 J	< 0.15	***0.55 J***	0.40 J	< 0.15	< 0.089	< 0.089	< 0.089	< 0.089	< 0.089	0.36 BJ	0.34 J	0.38 J	0.21 J	< 0.89	0.15 J	< 0.49	< 0.99
Bromodichloromethane	0.06	0.6	< 0.34	< 0.17	< 0.34	< 0.34	< 0.17	< 0.37	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.77	< 0.077	< 0.73	< 1.5
Bromoform	0.44	4.4	< 0.56	< 0.28	< 0.56	< 0.56	< 0.28	< 0.48	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.88	< 0.088	< 7.9	< 15.9
Bromomethane	1	10	< 0.62	< 0.31	< 0.62	< 0.62	< 0.31	< 0.80	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 5.9	< 0.59	< 1.9	< 3.9
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	< 0.053	< 0.053	0.18 J	0.44 J	0.38 J	0.39 J	0.14 J	< 0.053	< 0.053	< 0.53	< 0.053	< 0.75	< 1.5
Carbon tetrachloride	0.5	5	< 0.52	< 0.26	< 0.52	< 0.52	< 0.26	< 0.38	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.38	< 0.038	< 0.33	< 0.66
Chloroform	0.6	6	< 0.4	***0.85 J***	< 0.40	< 0.40	***0.88 J***	***0.90 J***	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	0.19 BJ	< 0.062	0.43 J	0.39 J	***0.90 J***	< 0.31 U	< 2.5	< 5.1
Chloromethane	3	30	< 0.36	< 0.18	< 0.36	< 0.36	< 0.18	< 0.32	< 0.16	< 0.16	< 0.16	< 0.16	0.31 BJ	0.30 BJ	0.18 J+	2.1	< 0.16	< 1.6	< 0.35 U	< 4.4	< 8.8
cis-1,2-Dichloroethene	7	70	***200***	***180***	***170***	***170***	***82***	***48***	0.87	0.77	0.69	***13***	3.6	***7.3***	***10***	1.7	***44***	***43***	***39***	***52.9***	***43.4***
Dichlorodifluoromethane	200	1000	< 0.4	< 0.2	< 0.40	< 0.40	< 0.20	< 0.54	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 1.1	< 0.11	< 1.0	< 2.0
Ethylbenzene	140	700	< 0.26	< 0.13	< 0.26	< 0.26	< 0.13	< 0.18	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.54	< 0.054	< 0.44	< 0.87
Isopropylbenzene	NE	NE	< 0.28	< 0.14	< 0.28	< 0.28	< 0.14	< 0.39	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	0.11 J	0.12 J	< 0.81	< 0.081	< 0.79	< 1.6
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	0.060 J	< 0.57	< 0.057	< 0.93	< 1.9
Methyl tert-butyl ether	12	60	< 0.48	< 0.24	< 0.48	< 0.48	< 0.24	< 0.39	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 1.4	< 0.14	< 2.5	< 5.0
Methylene chloride	0.5	5	< 1.4	< 0.68	< 1.4	< 1.4	< 0.68	< 1.6	0.33 J	< 0.14	< 0.14	< 0.14	0.31 J	0.45 BJ	< 0.14	< 0.14	< 0.14	***1.5 J+***	< 0.25 U	< 1.2	< 2.3
Naphthalene	10	100	< 0.32	< 0.16	< 0.32	< 0.32	< 0.16	< 0.34	< 0.088	< 0.088	< 0.088	0.31 BJ	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.88	< 0.088	< 2.4	< 4.7
n-Butylbenzene	NE	NE	< 0.26	< 0.13	< 0.26	< 0.26	< 0.13	< 0.39	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 1.4	< 0.14	< 1.4	< 2.8
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	0.21 J	< 0.21	< 0.21	< 2.1	< 0.21	< 3.4	< 6.8
n-Propylbenzene	NE	NE	< 0.26	< 0.13	< 0.26	< 0.26	< 0.13	< 0.41	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	< 0.10	< 1.0	< 0.10	< 1.6	< 3.2
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.58	< 0.058	< 0.52	< 1.0
p-Isopropyltoluene	NE	NE	< 0.34	< 0.17	< 0.34	< 0.34	< 0.17	< 0.36	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.85	< 0.085	< 1.6	< 3.2
sec-Butylbenzene	NE	NE	< 0.3	< 0.15	< 0.30	< 0.30	< 0.15	< 0.40	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 1.3	< 0.13	< 1.7	< 3.4
Styrene	10	100	< 0.2	< 0.1	< 0.20	< 0.20	< 0.10	< 0.39	< 0.065	< 0.065	< 0.065	0.15 J	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.65	< 0.065	< 0.93	< 1.9
tert-Butylbenzene	NE	NE	< 0.28	< 0.14	< 0.28	< 0.28	< 0.14	< 0.40	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 1.2	< 0.12	< 0.61	< 1.2
Tetrachloroethene	0.5	5	***920***	***620***	***730***	***1100***	***850***	***140***	***3.5***	***2.3***	***1.8***	***4.1***	***13***	***5.4 B***	0.43 BJ	***13 B***	***310***	***330***	***260***	***333***	***263***
Toluene	160	800	< 0.22	< 0.11	< 0.22	< 0.22	< 0.11	< 0.15	0.12 J	< 0.053	< 0.053	0.11 J	< 0.053	0.44 BJ	0.10 J	< 0.053	0.10 J	< 0.53	0.060 J	< 0.34	< 0.69
trans-1,2-Dichloroethene	20	100	4.8	5.2	6.4	9.3	4.3	3.1	< 0.11	< 0.11	< 0.11	0.17 J	< 0.11	< 0.11	< 0.11	< 0.11	3.4 J	4.3 J+	0.90	< 2.2	< 4.4
Trichloroethene	0.5	5	***130***	***100***	***130***	***170***	***92***	***51***	***0.86***	***0.63***	***0.5***	***2.2***	***3.9***	***11***	***4.4***	***2***	***43***	***40***	***32***	***41***	***34***
Trichlorofluoromethane	698	3490	< 0.38	< 0.19	< 2.0	< 2.0	< 1.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.5	< 0.5	< 5	< 0.13	< 0.43	< 0.86
Vinyl chloride	0.02	0.2	< 0.2	< 0.1	< 0.20	< 0.20	< 0.10	< 0.20	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	***0.56***	< 1.6	< 0.16	< 0.35	< 0.70
Xylenes, Total	400	2000	< 0.14	< 0.068	< 0.14	< 0.14	< 0.068	< 0.22	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.12	< 0.12	< 0.12	< 0.12	< 1.2	< 0.12	< 3.0	< 6.0
Total PCBs																					
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0072	< 0.0072	< 0.0072
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0042	< 0.0042	< 0.0042
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.013	< 0.013	< 0.013
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.011	< 0.011	< 0.011
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND
Dissolved PCBs																					
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																					
Total Dissolved Solids (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1090	2060	2020
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.0	4.4	4.6

Notes on Page 56.

Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-3D2	MW-3D2	MW-3D2	MW-3D2	MW-3D2	MW-3D2	MW-3D2[3]	MW-3D2	MW-3D2[3]	MW-3D2	MW-3D2	MW-3D2	MW-3D2	MW-3D2[3]	MW-3D2	MW-3D2	MW-3D2	MW-3D2[1]	MW-3D2[1]	MW-3D2[3]	MW-3D2
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	12/31/2009	04/07/2010	07/01/2010	10/01/2010	03/30/2011	04/12/2012	04/12/2012	11/30/2012	11/30/2012	12/19/2012	12/28/2012	01/03/2013	01/16/2013	01/16/2013	01/31/2013	02/12/2013	02/12/2013	02/28/2013	03/13/2013	04/16/2013	04/16/2013	07/16/2013
VOCs																							
1,1,1,2-Tetrachloroethane	7	70	< 6.3	< 13	< 13	< 0.25	< 13	< 1.6	< 1.6	< 1.3	< 1.3	NA	NA	NA	< 0.5	< 0.5	NA	< 0.25	< 0.5	NA	< 0.25	< 0.25	< 0.5	< 0.25
1,1,1-Trichloroethane	40	200	< 13	< 25	< 25	< 0.5	< 25	< 1.3	< 1.3	< 1	< 1	NA	NA	NA	< 0.4	< 0.4	NA	< 0.2	< 0.4	NA	< 0.2	< 0.2	< 0.4	< 0.2
1,1,2-Trichloroethane	0.5	5	< 6.3	< 13	< 13	< 0.25	< 13	< 1.5	< 1.5	< 1.4	< 1.4	NA	NA	NA	< 0.56	< 0.56	NA	< 0.28	< 0.56	NA	< 0.28	< 0.28	< 0.56	< 0.28
1,1-Dichloroethene	0.7	7	< 13	< 25	< 25	< 0.5	< 25	< 1.5	< 1.5	< 1.6	< 1.6	NA	NA	NA	< 0.62	< 0.62	NA	< 0.31	< 0.62	NA	< 0.31	< 0.31	< 0.62	< 0.31
1,2,4-Trimethylbenzene	96	480	< 5	< 10	< 10	< 0.2	< 10	< 1.1	< 1.1	< 0.7	< 0.7	NA	NA	NA	< 0.28	< 0.28	NA	< 0.14	< 0.28	NA	< 0.14	< 0.14	< 0.28	< 0.14
1,2-Dibromoethane	0.005	0.05	< 5	< 10	< 10	< 0.2	< 10	< 2.3	< 2.3	< 1.8	< 1.8	NA	NA	NA	< 0.72	< 0.72	NA	< 0.36	< 0.72	NA	< 0.36	< 0.36	< 0.72	< 0.36
1,2-Dichlorobenzene	60	600	< 5	< 10	< 10	< 0.2	< 10	< 1.1	< 1.1	< 1.4	< 1.4	NA	NA	NA	< 0.54	< 0.54	NA	< 0.27	< 0.54	NA	< 0.27	< 0.27	< 0.54	< 0.27
1,2-Dichloropropane	0.5	5	< 13	< 25	< 25	< 0.5	< 25	< 1.8	< 1.8	< 1	< 1	NA	NA	NA	< 0.4	< 0.4	NA	< 0.2	< 0.4	NA	< 0.2	< 0.2	< 0.4	< 0.2
1,2,3-Trichlorobenzene	NE	NE	< 6.3	< 13	< 13	< 0.25	< 13	< 1.8	< 1.8	< 1.2	< 1.2	NA	NA	NA	< 0.48	< 0.48	NA	< 0.24	< 0.48	NA	< 0.24	< 0.24	< 0.48	< 0.24
1,2,4-Trichlorobenzene	14	70	< 6.3	< 13	< 13	< 0.25	< 13	< 1.1	< 1.1	< 1.6	< 1.6	NA	NA	NA	< 0.62	< 0.62	NA	< 0.31	< 0.62	NA	< 0.31	< 0.31	< 0.62	< 0.31
1,3,5-Trimethylbenzene	96	480	< 5	< 10	< 10	< 0.2	< 10	< 1.2	< 1.2	< 0.9	< 0.9	NA	NA	NA	< 0.36	< 0.36	NA	< 0.18	< 0.36	NA	< 0.18	< 0.18	< 0.36	< 0.18
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	0.5	5	< 5	< 10	< 10	< 0.2	< 10	< 0.6	< 0.6	< 0.37	< 0.37	NA	NA	NA	< 0.15	< 0.15	NA	< 0.074	< 0.15	NA	< 0.074	< 0.074	< 0.15	< 0.074
Bromodichloromethane	0.06	0.6	< 5	< 10	< 10	< 0.2	< 10	< 1.2	< 1.2	< 0.85	< 0.85	NA	NA	NA	< 0.34	< 0.34	NA	< 0.17	< 0.34	NA	< 0.17	< 0.17	< 0.34	< 0.17
Bromoform	0.44	4.4	< 5	< 10	< 10	< 0.2	< 10	< 2.3	< 2.3	< 1.4	< 1.4	NA	NA	NA	< 0.56	< 0.56	NA	< 0.28	< 0.56	NA	< 0.28	< 0.28	< 0.56	< 0.28
Bromomethane	1	10	< 13	< 25	< 25	< 0.5	< 25	< 2.5	< 2.5	< 1.6	< 1.6	NA	NA	NA	< 0.62	< 0.62	NA	< 0.31	< 0.62	NA	< 0.31	< 0.31	< 0.62	< 0.31
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.5	5	< 20	< 40	< 40	< 0.8	< 40	< 1.4	< 1.4	< 1.3	< 1.3	NA	NA	NA	< 0.52	< 0.52	NA	< 0.26	< 0.52	NA	< 0.26	< 0.26	< 0.52	< 0.26
Chloroform	0.6	6	< 5	< 10	< 10	0.37	< 10	< 1.3	< 1.3	< 1	< 1	NA	NA	NA	< 0.4	< 0.4	NA	< 0.2	< 0.4	NA	< 0.2	< 0.2	< 0.4	< 0.2
Chloromethane	3	30	< 7.5	< 15	< 15	< 0.3	< 15	< 1.2	< 1.2	< 0.9	< 0.9	NA	NA	NA	< 0.36	< 0.36	NA	< 0.18	< 0.36	NA	< 0.18	< 0.18	< 0.36	< 0.18
cis-1,2-Dichloroethene	7	70	***520***	***510***	***460***	***400***	***440***	***440***	***440***	***420***	***400***	NA	NA	NA	***320***	***300***	NA	***250***	***260***	NA	***100***	***45***	< 0.24	***10***
Dichlorodifluoromethane	200	1000	< 13	< 25	< 25	< 0.5	< 25	< 1.3	< 1.3	< 1	< 1	NA	NA	NA	< 0.4	< 0.4	NA	< 0.2	< 0.4	NA	< 0.2	< 0.2	< 0.4	< 0.2
Ethylbenzene	140	700	< 13	< 25	< 25	< 0.5	< 25	< 0.7	< 0.7	< 0.65	< 0.65	NA	NA	NA	< 0.26	< 0.26	NA	< 0.13	< 0.26	NA	< 0.13	< 0.13	< 0.26	< 0.13
Isopropylbenzene	NE	NE	< 5	< 10	< 10	< 0.2	< 10	< 1.1	< 1.1	< 0.7	< 0.7	NA	NA	NA	< 0.28	< 0.28	NA	< 0.14	< 0.28	NA	< 0.14	< 0.14	< 0.28	< 0.14
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	12	60	< 13	< 25	< 25	< 0.5	< 25	< 1.4	< 1.4	< 1.2	< 1.2	NA	NA	NA	< 0.48	< 0.48	NA	< 0.24	< 0.48	NA	< 0.24	< 0.24	< 0.48	< 0.24
Methylene chloride	0.5	5	< 25	< 50	< 50	< 1	< 50	< 3.2	< 3.2	< 3.4	< 3.4	NA	NA	NA	< 1.4	< 1.4	NA	***7.3***	< 1.4	NA	< 0.68	< 0.68	< 1.4	< 0.68
Naphthalene	10	100	< 6.3	< 13	***240***	< 0.25	***13***	< 1.2	< 1.2	< 0.8	< 0.8	NA	NA	NA	< 0.32	< 0.32	NA	< 0.16	< 0.32	NA	< 0.16	< 0.16	< 0.32	< 0.16
n-Butylbenzene	NE	NE	< 5	< 10	< 10	< 0.2	< 10	< 1.1	< 1.1	< 0.65	< 0.65	NA	NA	NA	< 0.26	< 0.26	NA	< 0.13	< 0.26	NA	< 0.13	< 0.13	< 0.26	< 0.13
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	NE	NE	< 13	< 25	< 25	< 0.5	< 25	< 0.95	< 0.95	< 0.65	< 0.65	NA	NA	NA	< 0.26	< 0.26	NA	< 0.13	< 0.26	NA	< 0.13	< 0.13	< 0.26	< 0.13
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	NE	NE	< 5	< 10	< 10	< 0.2	< 10	< 1.2	< 1.2	< 0.85	< 0.85	NA	NA	NA	< 0.34	< 0.34	NA	< 0.17	< 0.34	NA	< 0.17	< 0.17	< 0.34	< 0.17
sec-Butylbenzene	NE	NE	< 6.3	< 13	< 13	< 0.25	< 13	< 0.95	< 0.95	< 0.75	< 0.75	NA	NA	NA	< 0.3	< 0.3	NA	< 0.15	< 0.3	NA	< 0.15	< 0.15	< 0.3	< 0.15
Styrene	10	100	< 13	< 25	< 25	< 0.5	< 25	< 1.3	< 1.3	< 0.5	< 0.5	NA	NA	NA	< 0.2	< 0.2	NA	< 0.1	< 0.2	NA	< 0.1	< 0.1	< 0.2	< 0.1
tert-Butylbenzene	NE	NE	< 5	< 10	< 10	< 0.2	< 10	< 1.2	< 1.2	< 0.7	< 0.7	NA	NA	NA	< 0.28	< 0.28	NA	< 0.14	< 0.28	NA	< 0.14	< 0.14	< 0.28	< 0.14
Tetrachloroethene	0.5	5	***4900***	***4400***	***3900***	***3900***	***3800***	***2600***	***2600***	***2800***	***2800***	NA	NA	NA	***1200***	***1100***	NA	***1700***	***1700***	NA	***800***	***850***	***710***	***440***
Toluene	160	800	< 13	< 25	< 25	< 0.5	< 25	< 0.75	< 0.75	< 0.55	< 0.55	NA	NA	NA	< 0.22	< 0.22	NA	< 0.11	< 0.22	NA	< 0.11	< 0.11	< 0.22	< 0.11
trans-1,2-Dichloroethene	20	100	< 13	< 25	< 25	7.0	< 25	6.4	5.8	5.6	5.6	NA	NA	NA	4.9	4.5	NA	3.2	3.5	NA	0.62 J	< 0.25	< 0.5	< 0.25
Trichloroethene	0.5	5	***280***	***240***	***240***	***240***	***230***	***190***	***190***	***190***	***180***	NA	NA	NA	***110***	***120***	NA	***120***	***120***	NA	***50***	***24***	< 0.38	***8.7***
Trichlorofluoromethane	698	3490	< 43	< 100	< 100	< 2	< 100	< 1.1	< 1.1	< 0.95	< 0.95	NA	NA	NA	< 0.38	< 0.38	NA	< 0.19	< 0.38	NA	< 0.19	< 0.19	< 0.38	< 0.19
Vinyl chloride	0.02	0.2	< 5	< 10	< 10	***0.65***	< 10	< 0.65	< 0.65	< 0.5	< 0.5	NA	NA	NA	< 0.2	< 0.2	NA	***0.22 J***	< 0.2	NA	< 0.1	< 0.1	< 0.2	< 0.1
Xylenes, Total	400	2000	< 13	< 25	< 25	< 0.5	< 25	< 1.5	< 1.5	< 0.34	< 0.34	NA	NA	NA	< 0.14	< 0.14	NA	< 0.068	< 0.14	NA	< 0.068	< 0.068	< 0.14	< 0.068
Total PCBs																								
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.17	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.093	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.11	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																								
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																								
Total Dissolved Solids (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	730	730	1300	1800	1500	1000	NA	870	720	NA	1300	NA	NA	NA	NA
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-3D2[3]	MW-3D2	MW-3D2[3]	MW-3D2	MW-3D2[3]	MW-3D2	MW-3D2[3]	MW-3D2	MW-3D2[3]	MW-3D2	MW-3D2[3]	MW-3D2	MW-3D2	MW-3D2	MW-3D2[3]	MW-3D2	MW-3D2[3]	MW-3D2	MW-3D2	MW-3D2	MW-3D2	MW-3D2	MW-3D2[3]	MW-3D2
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	07/16/2013	10/10/2013	10/10/2013	04/16/2014	04/16/2014	10/23/2014	10/23/2014	04/14/2015	04/14/2015	10/22/2015	10/22/2015	01/25/2016	01/25/2016	04/22/2016	07/20/2016	07/20/2016	10/13/2016	10/13/2016	1/19/2017	04/12/2017	10/05/2017	04/06/2018	10/12/2018	10/12/2018	04/09/2019
VOCs																										
1,1,1,2-Tetrachloroethane	7	70	< 0.5	< 0.25	< 0.25	< 1.3	< 1.3	< 0.50	< 0.50	< 1.3	< 1.3	< 4.6	< 4.6	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 5.5	< 0.54
1,1,1-Trichloroethane	40	200	< 0.4	< 0.2	< 0.2	< 1.0	< 1.0	< 0.40	< 0.40	< 1.0	< 1.0	< 3.8	< 3.8	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	< 0.10	< 0.10	< 5.0	< 0.49
1,1,2-Trichloroethane	0.5	5	< 0.56	< 0.28	< 0.28	< 1.4	< 1.4	< 0.56	< 0.56	< 1.4	< 1.4	< 3.5	< 3.5	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	< 0.10	< 0.10	< 5.0	< 1.1
1,1-Dichloroethene	0.7	7	< 0.62	< 0.31	< 0.31	< 1.6	< 1.6	< 0.62	< 0.62	< 1.6	< 1.6	< 3.9	< 3.9	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	0.26 J	< 0.14	< 7.0	< 0.49
1,2,4-Trimethylbenzene	96	480	< 0.28	< 0.14	< 0.14	< 0.70	< 0.70	< 0.28	< 0.28	< 0.70	< 0.70	< 3.6	< 3.6	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.06	< 0.060	< 0.060	< 3.0	< 1.7
1,2-Dibromoethane	0.005	0.05	< 0.72	< 0.36	< 0.36	< 1.8	< 1.8	< 0.72	< 0.72	< 1.8	< 1.8	< 3.9	< 3.9	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 6.5	< 1.7
1,2-Dichlorobenzene	60	600	< 0.54	< 0.27	< 0.27	< 1.4	< 1.4	< 0.54	< 0.54	< 1.4	< 1.4	< 3.3	< 3.3	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 3.8	< 1.4
1,2-Dichloropropane	0.5	5	< 0.4	< 0.2	< 0.2	< 1.0	< 1.0	< 0.40	< 0.40	< 1.0	< 1.0	< 4.3	< 4.3	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	< 0.10	< 0.10	< 5.0	< 0.57
1,2,3-Trichlorobenzene	NE	NE	< 0.48	< 0.24	< 0.24	< 1.2	< 1.2	< 0.48	< 0.48	< 1.2	< 1.2	< 4.6	< 4.6	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 2.3	< 1.3
1,2,4-Trichlorobenzene	14	70	< 0.62	< 0.31	< 0.31	< 1.6	< 1.6	< 0.62	< 0.62	< 1.6	< 1.6	< 3.4	< 3.4	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 3.9	< 1.9
1,3,5-Trimethylbenzene	96	480	< 0.36	< 0.18	< 0.18	< 0.90	< 0.90	< 0.36	< 0.36	< 0.90	< 0.90	< 2.5	< 2.5	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 3.8	< 1.7
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3	< 3.0	< 3.0	< 150	< 5.9
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 48	< 4.9
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	2.0 J	< 0.77	< 0.77	< 0.77	< 0.77	< 39	< 3.1
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	14 BJ	25	< 3.4	< 3.4	< 170	< 5.5
Benzene	0.5	5	< 0.15	< 0.074	< 0.074	< 0.37	< 0.37	< 0.15	< 0.15	< 0.37	< 0.37	< 1.5	< 1.5	< 0.089	< 0.089	< 0.089	< 0.089	< 0.089	< 0.089	< 0.089	< 0.089	< 0.089	< 0.089	< 0.089	< 0.089	< 4.5	< 0.49
Bromodichloromethane	0.06	0.6	< 0.34	< 0.17	< 0.17	< 0.85	< 0.85	< 0.34	< 0.34	< 0.85	< 0.85	< 3.7	< 3.7	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 3.9	< 0.73
Bromoform	0.44	4.4	< 0.56	< 0.28	< 0.28	< 1.4	< 1.4	< 0.56	< 0.56	< 1.4	< 1.4	< 4.8	< 4.8	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 4.4	< 7.9
Bromomethane	1	10	< 0.62	< 0.31	< 0.31	< 1.6	< 1.6	< 0.62	< 0.62	< 1.6	< 1.6	< 8.0	< 8.0	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 30	< 1.9
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.053	< 0.053	< 0.053	< 0.053	0.14 J	0.35 J	< 0.053	0.22 J	< 0.053	< 0.053	< 0.053	< 0.053	< 2.7	< 0.75
Carbon tetrachloride	0.5	5	< 0.52	< 0.26	< 0.26	< 1.3	< 1.3	< 0.52	< 0.52	< 1.3	< 1.3	< 3.8	< 3.8	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 1.9	< 0.33
Chloroform	0.6	6	< 0.4	< 0.2	< 0.2	< 1.0	< 1.0	< 0.40	< 0.40	< 1.0	< 1.0	< 3.7	< 3.7	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	0.19 J	< 0.18 U	< 3.1	< 2.5
Chloromethane	3	30	< 0.36	< 0.18	< 0.18	< 0.90	< 0.90	< 0.36	< 0.36	< 0.90	< 0.90	< 3.2	< 3.2	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	0.75 BJ	0.63 J	0.52 BJ	< 0.16	***5.1***	< 0.16	< 0.41 U	< 17 U	< 4.4
cis-1,2-Dichloroethene	7	70	***11***	***21***	***20***	***210***	***220***	***230***	***240***	***270***	***230***	***230***	***220***	2.5	2.5	0.84	3.0	3.6	***15***	***17***	***30***	2.1	***34***	***33***	***30***	***27***	***22.6***
Dichlorodifluoromethane	200	1000	< 0.4	< 0.2	< 0.2	< 1.0	< 1.0	< 0.40	< 0.40	< 1.0	< 1.0	< 5.4	< 5.4	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	1.0	1.0	< 5.5	1.0 J
Ethylbenzene	140	700	< 0.26	< 0.13	< 0.13	< 0.65	< 0.65	< 0.26	< 0.26	< 0.65	< 0.65	< 1.8	< 1.8	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 2.7	< 0.44
Isopropylbenzene	NE	NE	< 0.28	< 0.14	< 0.14	< 0.70	< 0.70	< 0.28	< 0.28	< 0.70	< 0.70	< 3.9	< 3.9	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 4.1	< 0.79
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	0.080 J	< 0.057	< 2.9	< 0.93
Methyl tert-butyl ether	12	60	< 0.48	< 0.24	< 0.24	< 1.2	< 1.2	< 0.48	< 0.48	< 1.2	< 1.2	< 3.9	< 3.9	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 7.0	< 2.5
Methylene chloride	0.5	5	< 1.4	< 0.68	< 0.68	< 3.4	< 3.4	< 1.4	< 1.4	< 3.4	< 3.4	< 16	< 16	0.31 J	0.19 J	< 0.14	< 0.14	< 0.14	< 0.14	***0.68 BJ***	< 0.14	< 0.14	< 0.14	< 0.21 U	< 7.0	< 1.2
Naphthalene	10	100	< 0.32	< 0.16	< 0.16	< 0.80	< 0.80	< 0.32	< 0.32	< 0.80	< 0.80	< 3.4	< 3.4	< 0.088	< 0.088	< 0.088	0.11 BJ	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	0.09 BJ	< 0.088	< 0.088	< 4.4	< 2.4
n-Butylbenzene	NE	NE	< 0.26	< 0.13	< 0.13	< 0.65	< 0.65	< 0.26	< 0.26	< 0.65	< 0.65	< 3.9	< 3.9	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 7.0	< 1.4
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 11	< 3.4
n-Propylbenzene	NE	NE	< 0.26	< 0.13	< 0.13	< 0.65	< 0.65	< 0.26	< 0.26	< 0.65	< 0.65	< 4.1	< 4.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	< 0.10	< 0.10	< 5.0	< 1.6
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 2.9	< 0.52
p-Isopropyltoluene	NE	NE	< 0.34	< 0.17	< 0.17	< 0.85	< 0.85	< 0.34	< 0.34	< 0.85	< 0.85	< 3.6	< 3.6	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 4.3	< 1.6
sec-Butylbenzene	NE	NE	< 0.3	< 0.15	< 0.15	< 0.75	< 0.75	< 0.30	< 0.30	< 0.75	< 0.75	< 4.0	< 4.0	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 6.5	< 1.7
Styrene	10	100	< 0.2	< 0.1	< 0.1	< 0.50	< 0.50	< 0.20	< 0.20	< 0.50	< 0.50	< 3.9	< 3.9	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 3.3	< 0.93
tert-Butylbenzene	NE	NE	< 0.28	< 0.14	< 0.14	< 0.70	< 0.70	< 0.28	< 0.28	< 0.70	< 0.70	< 4.0	< 4.0	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 6.0	< 0.61
Tetrachloroethene	0.5	5	***840***	***150***	***150***	***1800***	***1700***	***1700***	***1700***	***1800***	***1800***	***2200***	***2200***	***12***	***13***	***7.4***	***18***	***19***	***20***	***18***	***14***	***2.3 B***	***0.92 B***	***610***	***490***	***480***	***300***
Toluene	160	800	< 0.22	< 0.11	< 0.11	< 0.55	< 0.55	< 0.22	< 0.22	< 0.55	< 0.55	< 1.5	< 1.5	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	0.11 BJ	< 0.053	< 0.053	0.080 J	< 0.053	< 2.7	< 0.34
trans-1,2-Dichloroethene	20	100	< 0.5	0.52 J	< 0.25	3.1 J	3.9 J	3.0	3.3	4.6 J	< 1.3	< 3.5	< 3.5	< 0.11	0.11 J	< 0.11	0.13 J	0.13 J	0.22 J	0.17 J	0.22 J	< 0.11	0.28 J	0.68	0.48 J	< 5.5	< 2.2
Trichloroethene	0.5	5	***12***	***9.8***	***9.9***	***120***	***130***	***140***	***140***	***160***	***140***	***130***	***130***	***2.4***	***2.5***	***0.84***	***2.4***	***2.7***	***6.7***	***7.2***	***19***	***4.4***	***0.8***	***86***	***39***	***38***	***19.8***
Trichlorofluoromethane	698	3490	< 0.38	< 0.19	< 0.19	< 5.0	< 5.0	< 2.0	< 2.0	< 5.0	< 5.0	< 10	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.5	< 0.5	< 0.13	< 6.5	< 0.43
Vinyl chloride	0.02	0.2	< 0.2	< 0.1	< 0.1	< 0.50	< 0.50	< 0.20	< 0.20	< 0.50	< 0.50	< 2.0	< 2.0	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	***0.17 J***	< 0.16	< 0.16	< 0.16	***0.30 J***	< 0.16	< 8.0	< 0.35
Xylenes, Total	400	2000	< 0.14	< 0.068	< 0.068	< 0.34	< 0.34	< 0.14	< 0.14	< 0.34	< 0.34	< 2.2	< 2.2	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 5.8	< 3.0
Total PCBs																											
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																											
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																											
Total Dissolved Solids (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-3D3	MW-3D3[3]	MW-3D3	MW-3D3	MW-3D3	MW-3D3	MW-3D3	MW-3D3	MW-3D3	MW-3D3	MW-3D3	MW-3D3	MW-3D3	MW-3D3	MW-3D3	MW-3D3	MW-3D3	MW-3D3	MW-3D3	MW-3D3
SCREEN INTERVAL (feet bgs)	PREVENTIVE ACTION LIMIT	ENFORCEMENT STANDARD	214 - 224 ft	214 - 224 ft	214 - 224 ft	214 - 224 ft	214 - 224 ft	214 - 224 ft	214 - 224 ft	214 - 224 ft	214 - 224 ft	214 - 224 ft	214 - 224 ft	214 - 224 ft	214 - 224 ft	214 - 224 ft	214 - 224 ft	214 - 224 ft	214 - 224 ft	214 - 224 ft	214 - 224 ft	214 - 224 ft
SAMPLE DATE			07/24/2012	07/24/2012	11/27/2012	12/19/2012	12/31/2012	01/03/2013	01/18/2013	01/31/2013	02/15/2013	02/27/2013	03/13/2013	04/19/2013	07/16/2013	10/07/2013	04/16/2014	10/16/2014	04/13/2015	10/19/2015	10/13/2016	10/05/2017	10/12/2018
VOCs																						
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.25	< 0.25	NA	NA	NA	< 0.25	NA	< 0.25	NA	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.46	< 0.11	< 0.11	< 0.11
1,1,1-Trichloroethane	40	200	< 0.2	< 0.2	< 0.2	NA	NA	NA	< 0.2	NA	< 0.2	NA	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.38	< 0.10	< 0.1	< 0.10
1,1,2-Trichloroethane	0.5	5	< 0.28	< 0.28	< 0.28	NA	NA	NA	< 0.28	NA	< 0.28	NA	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.35	< 0.10	< 0.1	< 0.10
1,1-Dichloroethene	0.7	7	< 0.31	< 0.31	< 0.31	NA	NA	NA	< 0.31	NA	< 0.31	NA	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.39	< 0.14	< 0.14	< 0.14
1,2,4-Trimethylbenzene	96	480	< 0.14	< 0.14	< 0.14	NA	NA	NA	< 0.14	NA	< 0.14	NA	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.36	< 0.060	< 0.06	< 0.060 J-
1,2-Dibromoethane	0.005	0.05	< 0.36	< 0.36	< 0.36	NA	NA	NA	< 0.36	NA	< 0.36	NA	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.39	< 0.13	< 0.13	< 0.13
1,2-Dichlorobenzene	60	600	< 0.27	< 0.27	< 0.27	NA	NA	NA	< 0.27	NA	< 0.27	NA	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.33	< 0.076	< 0.076	< 0.076
1,2-Dichloropropane	0.5	5	< 0.2	< 0.2	< 0.2	NA	NA	NA	< 0.2	NA	< 0.2	NA	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.43	< 0.10	< 0.1	< 0.10
1,2,3-Trichlorobenzene	NE	NE	< 0.24	< 0.24	< 0.24	NA	NA	NA	< 0.24	NA	< 0.24	NA	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.045	< 0.045	< 0.045
1,2,4-Trichlorobenzene	14	70	< 0.31	< 0.31	< 0.31	NA	NA	NA	< 0.31	NA	< 0.31	NA	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.34	< 0.077	< 0.077	< 0.077
1,3,5-Trimethylbenzene	96	480	< 0.18	< 0.18	< 0.18	NA	NA	NA	< 0.18	NA	< 0.18	NA	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.25	< 0.075	< 0.075	< 0.075 J-
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.0	< 3	< 3.0
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.95	< 0.95	< 0.95
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.77	< 0.77	< 0.77
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.4	< 3.4	< 3.4
Benzene	0.5	5	< 0.074	< 0.074	< 0.074	NA	NA	NA	0.30 J	NA	< 0.074	NA	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.15	< 0.089	< 0.089	< 0.089
Bromodichloromethane	0.06	0.6	< 0.17	< 0.17	< 0.17	NA	NA	NA	< 0.17	NA	< 0.17	NA	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.37	< 0.077	< 0.077	< 0.077
Bromoform	0.44	4.4	< 0.28	< 0.28	< 0.28	NA	NA	NA	< 0.28	NA	< 0.28	NA	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.48	< 0.088	< 0.088	< 0.088
Bromomethane	1	10	< 0.31	< 0.31	< 0.31	NA	NA	NA	< 0.31	NA	< 0.31 *	NA	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.80	< 0.59	< 0.59	< 0.59
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.053	< 0.053	< 0.053
Carbon tetrachloride	0.5	5	< 0.26	< 0.26	< 0.26	NA	NA	NA	< 0.26	NA	< 0.26	NA	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.38	< 0.038	< 0.038	< 0.038
Chloroform	0.6	6	< 0.2	< 0.2	< 0.2	NA	NA	NA	< 0.2	NA	< 0.2	NA	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.37	< 0.062	< 0.062	< 0.062
Chloromethane	3	30	< 0.18	< 0.18	< 0.18	NA	NA	NA	< 0.18	NA	< 0.18	NA	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.32	0.79 BJ	0.58 J	< 0.35 U
cis-1,2-Dichloroethene	7	70	2.2	2.2	6.8	NA	NA	NA	***15***	NA	***7.7***	NA	6.2	4.0	1.2	< 0.12	< 0.12	< 0.12	< 0.12	< 0.41	< 0.11	< 0.11	< 0.11
Dichlorodifluoromethane	200	1000	< 0.2	< 0.2	< 0.2	NA	NA	NA	< 0.2	NA	< 0.2	NA	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.54	< 0.11	< 0.11	< 0.11
Ethylbenzene	140	700	< 0.13	< 0.13	< 0.13	NA	NA	NA	< 0.13	NA	< 0.13	NA	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.18	< 0.054	< 0.054	< 0.054
Isopropylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	NA	NA	NA	< 0.14	NA	< 0.14	NA	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.39	< 0.081	< 0.081	< 0.081
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.057	< 0.057	< 0.057
Methyl tert-butyl ether	12	60	< 0.24	< 0.24	< 0.24	NA	NA	NA	< 0.24	NA	< 0.24	NA	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.39	< 0.14	< 0.14	< 0.14
Methylene chloride	0.5	5	< 0.68	< 0.68	< 0.68	NA	NA	NA	< 0.68	NA	< 0.68	NA	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 1.6	< 0.14	< 0.14	< 0.24 U
Naphthalene	10	100	< 0.16	< 0.16	< 0.16	NA	NA	NA	< 0.16	NA	< 0.16	NA	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.34	< 0.088	0.1 BJ	< 0.088
n-Butylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	NA	NA	NA	< 0.13	NA	< 0.13	NA	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.39	< 0.14	< 0.14	< 0.14
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	< 0.21	< 0.21
n-Propylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	NA	NA	NA	< 0.13	NA	< 0.13	NA	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.41	< 0.10	< 0.1	< 0.10
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.058	< 0.058	< 0.058
p-Isopropyltoluene	NE	NE	< 0.17	< 0.17	< 0.17	NA	NA	NA	< 0.17	NA	< 0.17	NA	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.36	< 0.085	< 0.085	< 0.085 J-
sec-Butylbenzene	NE	NE	< 0.15	< 0.15	< 0.15	NA	NA	NA	< 0.15	NA	< 0.15	NA	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.40	< 0.13	< 0.13	< 0.13
Styrene	10	100	< 0.1	< 0.1	< 0.1	NA	NA	NA	< 0.1	NA	< 0.1	NA	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.39	< 0.065	< 0.065	< 0.065
tert-Butylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	NA	NA	NA	< 0.14	NA	< 0.14	NA	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.40	< 0.12	< 0.12	< 0.12
Tetrachloroethene	0.5	5	***6.6***	***6.6***	***1.7***	NA	NA	NA	***1.3***	NA	***0.72 J***	NA	***0.95 J***	***0.63 J***	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.37	0.49 J	0.15 BJ	***0.5***
Toluene	160	800	< 0.11	< 0.11	< 0.11	NA	NA	NA	0.21 J	NA	< 0.11	NA	< 0.11	0.53	2.8	< 0.11	< 0.11	< 0.11	< 0.11	< 0.15	0.10 J	0.07 J	< 0.053
trans-1,2-Dichloroethene	20	100	< 0.25	< 0.25	< 0.25	NA	NA	NA	< 0.25	NA	< 0.25	NA	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.35	< 0.11	< 0.11	< 0.11
Trichloroethene	0.5	5	***1.1***	***1.2***	***1.1***	NA	NA	NA	0.40 J	NA	< 0.19	NA	< 0.19	< 0.19	0.31 J	***0.5***	< 0.19	< 0.19	< 0.19	< 0.16	< 0.062	< 0.062	< 0.062
Trichlorofluoromethane	698	3490	< 0.19	< 0.19	< 0.19	NA	NA	NA	< 0.19	NA	< 0.19	NA	< 0.19	< 0.19	< 0.19	< 0.19	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 0.5	< 0.13
Vinyl chloride	0.02	0.2	< 0.1	< 0.1	< 0.1	NA	NA	NA	< 0.1	NA	< 0.1	NA	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.20	< 0.16	< 0.16	< 0.16
Xylenes, Total	400	2000	< 0.068	< 0.068	< 0.068	NA	NA	NA	< 0.068	NA	< 0.068	NA	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.22	< 0.058	< 0.12	< 0.12
Total PCBs																							
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	< 0.18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	< 0.096	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	< 0.14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	< 0.11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																							
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																							
Total Dissolved Solids (mg/L)	NE	NE	NA	NA	410	350	360	320	300	340	380	670	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes on Page 56.

Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-4S	MW-4S[3]	MW-4S	MW-4S	MW-4S	MW-4S	MW-4S	MW-4S	MW-4S	MW-4S	MW-4S	MW-4S	MW-4S[3]	MW-4S	MW-4S
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	35 - 50 ft	35 - 50 ft	35 - 50 ft	35 - 50 ft	35 - 50 ft	35 - 50 ft	35 - 50 ft	35 - 50 ft	35 - 50 ft	35 - 50 ft	35 - 50 ft	35 - 50 ft	35 - 50 ft	35 - 50 ft	35 - 50 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	04/08/2010	04/08/2010	03/30/2011	04/10/2012	01/15/2013	04/18/2013	07/18/2013	10/08/2013	04/17/2014	10/17/2014	10/05/2017	04/04/2018	04/04/2018	10/11/2018	04/11/2019
VOCs																	
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.25	< 0.25	< 0.31	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	40	200	< 0.5	< 0.5	< 0.5	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	0.5	5	< 0.25	< 0.25	< 0.25	< 0.3	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	NA	NA	NA	NA	NA
1,1-Dichloroethene	0.7	7	< 0.5	< 0.5	< 0.5	< 0.29	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	96	480	< 0.2	< 0.2	< 0.2	< 0.22	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	NA	NA	NA	NA	NA
1,2-Dibromoethane	0.005	0.05	< 0.2	< 0.2	< 0.2	< 0.45	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	60	600	< 0.2	< 0.2	< 0.2	< 0.21	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	NA	NA	NA	NA	NA
1,2-Dichloropropane	0.5	5	< 0.5	< 0.5	< 0.5	< 0.36	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	NE	NE	< 0.25	< 0.25	< 0.25	< 0.36	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	14	70	< 0.25	< 0.25	< 0.25	< 0.22	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	96	480	< 0.2	< 0.2	< 0.2	< 0.23	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	NA	NA	NA	NA	NA
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	0.5	5	< 0.2	< 0.2	< 0.2	< 0.12	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	NA	NA	NA	NA	NA
Bromodichloromethane	0.06	0.6	< 0.2	< 0.2	< 0.2	< 0.23	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	NA	NA	NA	NA	NA
Bromoform	0.44	4.4	< 0.2	< 0.2	< 0.2	< 0.45	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	NA	NA	NA	NA	NA
Bromomethane	1	10	< 0.5	< 0.5	< 0.5	< 0.49	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31 *	NA	NA	NA	NA	NA
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.5	5	< 0.8	< 0.8	< 0.8	< 0.28	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	NA	NA	NA	NA	NA
Chloroform	0.6	6	< 0.2	< 0.2	< 0.2	< 0.25	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	NA	NA	NA	NA	NA
Chloromethane	3	30	< 0.3	< 0.3	< 0.3	< 0.24	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	7	70	< 0.5	< 0.5	< 0.5	< 0.22	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	NA	NA	NA	NA	NA
Dichlorodifluoromethane	200	1000	< 0.5	< 0.5	< 0.5	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	NA	NA	NA	NA	NA
Ethylbenzene	140	700	< 0.5	< 0.5	< 0.5	< 0.14	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	NA	NA	NA	NA	NA
Isopropylbenzene	NE	NE	< 0.2	< 0.2	< 0.2	< 0.21	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	NA	NA	NA	NA	NA
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	12	60	< 0.5	< 0.5	< 0.5	< 0.28	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24 *	NA	NA	NA	NA	NA
Methylene chloride	0.5	5	< 1	< 1	< 1	< 0.63	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	NA	NA	NA	NA	NA
Naphthalene	10	100	1.4	1.4	< 0.25	< 0.24	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	NA	NA	NA	NA	NA
n-Butylbenzene	NE	NE	< 0.2	< 0.2	< 0.2	< 0.21	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	NA	NA	NA	NA	NA
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	NE	NE	< 0.5	< 0.5	< 0.5	< 0.19	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	NA	NA	NA	NA	NA
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	NE	NE	< 0.2	< 0.2	< 0.2	< 0.24	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	NA	NA	NA	NA	NA
sec-Butylbenzene	NE	NE	< 0.25	< 0.25	< 0.25	< 0.19	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	NA	NA	NA	NA	NA
Styrene	10	100	< 0.5	< 0.5	< 0.5	< 0.26	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	NA	NA	NA	NA	NA
tert-Butylbenzene	NE	NE	< 0.2	< 0.2	< 0.2	< 0.24	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	NA	NA	NA	NA	NA
Tetrachloroethene	0.5	5	***1.5***	***1.7***	***1.6***	***0.96 J***	***1.4***	***1.8***	***0.90 J***	***1.2***	***1.9***	***1.4***	NA	NA	NA	NA	NA
Toluene	160	800	< 0.5	< 0.5	< 0.5	0.20 J	< 0.11	< 0.11	0.26 J	< 0.11	< 0.11	< 0.11	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	20	100	< 0.5	< 0.5	< 0.5	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	NA	NA	NA	NA	NA
Trichloroethene	0.5	5	< 0.2	< 0.2	< 0.2	< 0.18	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	NA	NA	NA	NA	NA
Trichlorofluoromethane	698	3490	< 2	< 2	< 2	< 0.22	< 0.19	< 0.19	< 0.19	< 0.19	< 1.0	< 1.0	NA	NA	NA	NA	NA
Vinyl chloride	0.02	0.2	< 0.2	< 0.2	< 0.2	< 0.13	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	NA	NA	NA	NA	NA
Xylenes, Total	400	2000	< 0.5	< 0.5	< 0.5	< 0.3	< 0.068	< 0.068	0.28 J	< 0.068	< 0.068	< 0.068	NA	NA	NA	NA	NA
Total PCBs																	
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	< 0.17	NA	NA	NA	NA	NA	< 0.035	< 0.035	< 0.035	< 0.0072	< 0.0072
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	< 0.091	NA	NA	NA	NA	NA	< 0.037	< 0.037	< 0.037	< 0.0042	< 0.0042
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	< 0.13	NA	NA	NA	NA	NA	< 0.038	< 0.038	< 0.038	< 0.013	< 0.013
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	< 0.11	NA	NA	NA	NA	NA	< 0.02	< 0.020	< 0.020	< 0.011	< 0.011
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
Dissolved PCBs																	
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																	
Total Dissolved Solids (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3750	2960	2910	1750	2260
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.95	< 0.95	1.0 J	< 2.0	1.6 J

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Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-4D	MW-4D	MW-4D	MW-4D	MW-4D	MW-4D	MW-4D	MW-4D	MW-4D	MW-4D	MW-4D	MW-4D	MW-4D	MW-4D[3]
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	65 - 70 ft	65 - 70 ft	65 - 70 ft	65 - 70 ft	65 - 70 ft	65 - 70 ft	65 - 70 ft	65 - 70 ft	65 - 70 ft	65 - 70 ft	65 - 70 ft	65 - 70 ft	65 - 70 ft	65 - 70 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	04/08/2010	03/30/2011	04/10/2012	01/16/2013	04/18/2013	07/17/2013	10/08/2013	04/17/2014	10/17/2014	10/12/2017	04/04/2018	10/11/2018	04/11/2019	04/11/2019
VOCs																
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.25	< 0.31	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	40	200	< 0.5	< 0.5	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	0.5	5	< 0.25	< 0.25	< 0.3	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	NA	NA	NA	NA	NA
1,1-Dichloroethene	0.7	7	< 0.5	< 0.5	< 0.29	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	96	480	< 0.2	< 0.2	< 0.22	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	NA	NA	NA	NA	NA
1,2-Dibromoethane	0.005	0.05	< 0.2	< 0.2	< 0.45	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	60	600	< 0.2	< 0.2	< 0.21	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	NA	NA	NA	NA	NA
1,2-Dichloropropane	0.5	5	< 0.5	< 0.5	< 0.36	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	NE	NE	< 0.25	< 0.25	< 0.36	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	14	70	< 0.25	< 0.25	< 0.22	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	96	480	< 0.2	< 0.2	< 0.23	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	NA	NA	NA	NA	NA
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	0.5	5	< 0.2	< 0.2	< 0.12	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	NA	NA	NA	NA	NA
Bromodichloromethane	0.06	0.6	< 0.2	< 0.2	< 0.23	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	NA	NA	NA	NA	NA
Bromoform	0.44	4.4	< 0.2	< 0.2	< 0.45	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	NA	NA	NA	NA	NA
Bromomethane	1	10	< 0.5	< 0.5	< 0.49	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31 *	NA	NA	NA	NA	NA
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.5	5	< 0.8	< 0.8	< 0.28	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	NA	NA	NA	NA	NA
Chloroform	0.6	6	< 0.2	< 0.2	< 0.25	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	NA	NA	NA	NA	NA
Chloromethane	3	30	< 0.3	< 0.3	< 0.24	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	7	70	< 0.5	< 0.5	< 0.22	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	NA	NA	NA	NA	NA
Dichlorodifluoromethane	200	1000	< 0.5	< 0.5	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	NA	NA	NA	NA	NA
Ethylbenzene	140	700	< 0.5	< 0.5	< 0.14	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	NA	NA	NA	NA	NA
Isopropylbenzene	NE	NE	< 0.2	< 0.2	< 0.21	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	NA	NA	NA	NA	NA
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	12	60	< 0.5	< 0.5	< 0.28	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24 *	NA	NA	NA	NA	NA
Methylene chloride	0.5	5	< 1	< 1	< 0.63	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	NA	NA	NA	NA	NA
Naphthalene	10	100	< 0.25	< 0.25	< 0.24	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	NA	NA	NA	NA	NA
n-Butylbenzene	NE	NE	< 0.2	< 0.2	< 0.21	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	NA	NA	NA	NA	NA
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	NE	NE	< 0.5	< 0.5	< 0.19	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	NA	NA	NA	NA	NA
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	NE	NE	< 0.2	< 0.2	< 0.24	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	NA	NA	NA	NA	NA
sec-Butylbenzene	NE	NE	< 0.25	< 0.25	< 0.19	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	NA	NA	NA	NA	NA
Styrene	10	100	< 0.5	< 0.5	< 0.26	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	NA	NA	NA	NA	NA
tert-Butylbenzene	NE	NE	< 0.2	< 0.2	< 0.24	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	NA	NA	NA	NA	NA
Tetrachloroethene	0.5	5	***0.9***	***0.7***	< 0.22	< 0.17	***0.51 J***	< 0.17	< 0.17	***0.58 J***	< 0.17	NA	NA	NA	NA	NA
Toluene	160	800	< 0.5	< 0.5	< 0.15	< 0.11	< 0.11	0.36 J	< 0.11	< 0.11	< 0.11	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	20	100	< 0.5	< 0.5	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	NA	NA	NA	NA	NA
Trichloroethene	0.5	5	< 0.2	< 0.2	< 0.18	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	NA	NA	NA	NA	NA
Trichlorofluoromethane	698	3490	< 2	< 2	< 0.22	< 0.19	< 0.19	< 0.19	< 0.19	< 1.0	< 1.0	NA	NA	NA	NA	NA
Vinyl chloride	0.02	0.2	< 0.2	< 0.2	< 0.13	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	NA	NA	NA	NA	NA
Xylenes, Total	400	2000	< 0.5	< 0.5	< 0.3	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	NA	NA	NA	NA	NA
Total PCBs																
Aroclor-1016	0.003	0.03	NA	NA	NA	< 0.17	NA	NA	NA	NA	NA	< 0.035	< 0.035	< 0.0072	< 0.0072	< 0.0072
Aroclor-1232	0.003	0.03	NA	NA	NA	< 0.093	NA	NA	NA	NA	NA	< 0.037	< 0.037	< 0.0042	< 0.0042	< 0.0042
Aroclor-1242	0.003	0.03	NA	NA	NA	< 0.13	NA	NA	NA	NA	NA	< 0.038	< 0.038	< 0.013	< 0.013	< 0.013
Aroclor-1248	0.003	0.03	NA	NA	NA	< 0.11	NA	NA	NA	NA	NA	< 0.02	< 0.020	< 0.011	< 0.011	< 0.011
Total Detected PCBs	0.003	0.03	NA	NA	NA	ND	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
Dissolved PCBs																
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																
Total Dissolved Solids (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	672	714	600	894	820
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.6	1.2 J	< 2.0	1.4 J	< 0.95

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Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-4D2	MW-4D2	MW-4D2	MW-4D2	MW-4D2	MW-4D2	MW-4D2	MW-4D2	MW-4D2	MW-4D2	MW-4D2	MW-4D2	MW-4D2[3]	MW-4D2	MW-4D2	MW-4D2	MW-4D2	MW-4D2	MW-4D2	MW-4D2
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	91 - 96 ft	91 - 96 ft	91 - 96 ft	91 - 96 ft	91 - 96 ft	91 - 96 ft	91 - 96 ft	91 - 96 ft	91 - 96 ft	91 - 96 ft	91 - 96 ft	91 - 96 ft	91 - 96 ft	91 - 96 ft	91 - 96 ft	91 - 96 ft	91 - 96 ft	91 - 96 ft	91 - 96 ft	91 - 96 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	03/30/2011	04/10/2012	01/16/2013	04/18/2013	07/18/2013	10/07/2013	04/17/2014	10/17/2014	10/21/2015	01/22/2016	04/20/2016	07/19/2016	07/19/2016	10/12/2016	1/19/2017	04/11/2017	10/05/2017	04/04/2018	10/11/2018	04/11/2019
VOCs																						
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.31	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.46	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.27
1,1,1-Trichloroethane	40	200	< 0.5	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.38	< 0.10	0.13 J	0.17 J	0.18 J	0.27 J	0.24 J	0.30 J	< 0.1	0.38 J	< 0.10	< 0.24
1,1,2-Trichloroethane	0.5	5	< 0.25	< 0.3	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.35	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	< 0.10	< 0.10	< 0.55
1,1-Dichloroethene	0.7	7	< 0.5	< 0.29	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.39	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	0.17 J	< 0.14	< 0.24
1,2,4-Trimethylbenzene	96	480	< 0.2	< 0.22	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.36	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.06	< 0.060	< 0.060	< 0.84
1,2-Dibromoethane	0.005	0.05	< 0.2	< 0.45	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.39	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.83
1,2-Dichlorobenzene	60	600	< 0.2	< 0.21	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.33	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.71
1,2-Dichloropropane	0.5	5	< 0.5	< 0.36	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.43	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	< 0.10	< 0.10	< 0.28
1,2,3-Trichlorobenzene	NE	NE	< 0.25	< 0.36	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.63
1,2,4-Trichlorobenzene	14	70	< 0.25	< 0.22	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.34	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.95
1,3,5-Trimethylbenzene	96	480	< 0.2	< 0.23	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.25	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.87
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3	< 3.0	< 3.0	< 2.9
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 2.5
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 1.5
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 2.7
Benzene	0.5	5	< 0.2	< 0.12	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.15	< 0.089	< 0.089	< 0.089	< 0.089	0.34 J	< 0.089	< 0.089	< 0.089	< 0.089	< 0.089	< 0.25
Bromodichloromethane	0.06	0.6	< 0.2	< 0.23	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.37	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.36
Bromoform	0.44	4.4	< 0.2	< 0.45	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.48	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 4.0
Bromomethane	1	10	< 0.5	< 0.49	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31 *	< 0.80	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 1.1 U	< 0.97
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.37
Carbon tetrachloride	0.5	5	< 0.8	< 0.28	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.38	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.17
Chloroform	0.6	6	< 0.2	< 0.25	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.37	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 1.3
Chloromethane	3	30	< 0.3	< 0.24	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.32	< 0.16	< 0.16	0.20 J	0.18 J	0.52 BJ	0.26 BJ	< 0.16	0.93 J	< 0.16	< 0.67 U	< 2.2
cis-1,2-Dichloroethene	7	70	< 0.5	< 0.22	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.41	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.27
Dichlorodifluoromethane	200	1000	< 0.5	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.54	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.50
Ethylbenzene	140	700	< 0.5	< 0.14	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	0.40 J	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.22
Isopropylbenzene	NE	NE	< 0.2	< 0.21	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.39	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.39
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.47
Methyl tert-butyl ether	12	60	< 0.5	< 0.28	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24 *	< 0.39	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 1.2
Methylene chloride	0.5	5	< 1	< 0.63	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 1.6	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.35 U	< 0.58
Naphthalene	10	100	< 0.25	< 0.24	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.34	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	0.13 BJ	< 0.088	< 0.088	< 0.088	< 1.2
n-Butylbenzene	NE	NE	< 0.2	< 0.21	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.39	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.71
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 1.7
n-Propylbenzene	NE	NE	< 0.5	< 0.19	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.41	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	< 0.10	< 0.10	< 0.81
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.26
p-Isopropyltoluene	NE	NE	< 0.2	< 0.24	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.36	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.80
sec-Butylbenzene	NE	NE	< 0.25	< 0.19	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.40	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.85
Styrene	10	100	< 0.5	< 0.26	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.39	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.47
tert-Butylbenzene	NE	NE	< 0.2	< 0.24	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.40	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.30
Tetrachloroethene	0.5	5	***1.9***	***0.73 J***	***1.2***	***0.92 J***	***1.2***	***0.84 J***	***1.5***	***1***	0.48 J	***0.8***	***0.76***	0.45 J	***0.55***	***0.65***	0.38 BJ	0.46 BJ	***0.61 B***	0.31 J	0.24 J	***1.1 J***
Toluene	160	800	< 0.5	0.40 J	< 0.11	0.45 J	0.39 J	< 0.11	< 0.11	< 0.11	< 0.15	< 0.053	< 0.053	< 0.053	< 0.053	0.13 J	0.11 BJ	< 0.053	< 0.053	0.10 J	< 0.053	< 0.17
trans-1,2-Dichloroethene	20	100	< 0.5	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.35	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 1.1
Trichloroethene	0.5	5	< 0.2	< 0.18	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.16	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.26
Trichlorofluoromethane	698	3490	< 2	< 0.22	< 0.19	< 0.19	< 0.19	< 0.19	< 1.0	< 1.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.5	< 0.5	< 0.13	< 0.21
Vinyl chloride	0.02	0.2	< 0.2	< 0.13	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.20	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.17
Xylenes, Total	400	2000	< 0.5	< 0.3	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	1.8	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 1.5
Total PCBs																						
Aroclor-1016	0.003	0.03	NA	NA	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	< 0.087	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	< 0.12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	< 0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																						
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																						
Total Dissolved Solids (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes on Page 56.

Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-5S	MW-5S	MW-5S	MW-5S[3]	MW-5S	MW-5S	MW-5S	MW-5S	MW-5S	MW-5S	MW-5S	MW-5S	MW-5S	MW-5S	MW-5S	MW-5S	MW-5S
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	34 - 44 ft	34 - 44 ft	34 - 44 ft	34 - 44 ft	34 - 44 ft	34 - 44 ft	34 - 44 ft	34 - 44 ft	34 - 44 ft	34 - 44 ft	34 - 44 ft	34 - 44 ft	34 - 44 ft	34 - 44 ft	34 - 44 ft	34 - 44 ft	34 - 44 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	04/07/2010	10/01/2010	04/12/2012	04/12/2012	11/28/2012	01/17/2013	02/13/2013	04/19/2013	07/18/2013	10/04/2013	04/15/2014	10/21/2014	04/13/2015	10/21/2015	10/12/2016	10/04/2017	10/12/2018	04/10/2019
VOCs																				
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.25	< 0.31	< 0.31	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.46	< 0.22	< 0.11	< 0.22	NA
1,1,1-Trichloroethane	40	200	< 0.5	< 0.5	< 0.26	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.38	< 0.20	< 0.1	< 0.20	NA
1,1,2-Trichloroethane	0.5	5	< 0.25	< 0.25	< 0.3	< 0.3	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.35	< 0.20	< 0.1	< 0.20	NA
1,1-Dichloroethene	0.7	7	< 0.5	< 0.5	< 0.29	< 0.29	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.39	< 0.28	< 0.14	< 0.28	NA
1,2,4-Trimethylbenzene	96	480	< 0.2	< 0.2	< 0.22	< 0.22	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.36	< 0.12	< 0.06	< 0.12	NA
1,2-Dibromoethane	0.005	0.05	< 0.2	< 0.2	< 0.45	< 0.45	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.39	< 0.26	< 0.13	< 0.26	NA
1,2-Dichlorobenzene	60	600	< 0.2	< 0.2	< 0.21	< 0.21	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.33	< 0.15	< 0.076	< 0.15	NA
1,2-Dichloropropane	0.5	5	< 0.5	< 0.5	< 0.36	< 0.36	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.43	< 0.20	< 0.1	< 0.20	NA
1,2,3-Trichlorobenzene	NE	NE	< 0.25	< 0.25	< 0.36	< 0.36	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.090	< 0.045	< 0.090	NA
1,2,4-Trichlorobenzene	14	70	< 0.25	< 0.25	< 0.22	< 0.22	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.34	< 0.15	< 0.077	< 0.15	NA
1,3,5-Trimethylbenzene	96	480	< 0.2	< 0.2	< 0.23	< 0.23	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.25	< 0.15	< 0.075	< 0.15	NA
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 6.0	< 3	< 6.0	NA
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.9	< 0.95	< 1.9	NA
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.5	< 0.77	< 1.5	NA
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 6.8	3.5 J	< 6.8	NA
Benzene	0.5	5	< 0.2	< 0.2	< 0.12	0.40 J	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.15	< 0.18	< 0.089	< 0.18	NA
Bromodichloromethane	0.06	0.6	< 0.2	< 0.2	< 0.23	< 0.23	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.37	< 0.15	< 0.077	< 0.15	NA
Bromoform	0.44	4.4	< 0.2	< 0.2	< 0.45	< 0.45	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.48	< 0.18	< 0.088	< 0.18	NA
Bromomethane	1	10	< 0.5	< 0.5	< 0.49	< 0.49	< 0.31	0.73 J	< 0.31 *	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.80	< 1.2	< 0.59	< 1.2	NA
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.11	< 0.053	< 0.11	NA
Carbon tetrachloride	0.5	5	< 0.8	< 0.8	***1.2***	< 0.28	***1.1***	< 0.26	***1.4***	***1.1***	***1.3***	***1.3***	< 0.26	***0.79 J***	< 0.26	***1***	< 0.076	***0.81***	< 0.076	NA
Chloroform	0.6	6	< 0.2	0.55	***0.84 J***	***0.88 J***	***0.79 J***	***0.79 J***	< 0.2	< 0.2	< 0.2	***0.61 J***	< 0.20	< 0.20	< 0.20	< 0.37	< 0.12	< 0.062	< 0.12	NA
Chloromethane	3	30	< 0.3	< 0.3	< 0.24	< 0.24	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.32	1.2 BJ	1.3 J	< 0.76 U	NA
cis-1,2-Dichloroethene	7	70	1.4	***10***	***13***	***14***	4.2	3.8	2.7	2.0	2.9	2.9	< 0.12	< 0.12	< 0.12	< 0.41	< 0.22	< 0.11	< 0.22	NA
Dichlorodifluoromethane	200	1000	< 0.5	< 0.5	< 0.26	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.54	< 0.22	< 0.11	< 0.22	NA
Ethylbenzene	140	700	< 0.5	< 0.5	< 0.14	< 0.14	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.18	< 0.11	< 0.054	< 0.11	NA
Isopropylbenzene	NE	NE	< 0.2	< 0.2	< 0.21	< 0.21	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.39	< 0.16	< 0.081	< 0.16	NA
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.11	0.06 BJ	< 0.11	NA
Methyl tert-butyl ether	12	60	< 0.5	< 0.5	< 0.28	< 0.28	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.39	< 0.28	< 0.14	< 0.28	NA
Methylene chloride	0.5	5	< 1	< 1	< 0.63	< 0.63	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 1.6	< 0.28	< 0.14	< 0.38 U	NA
Naphthalene	10	100	1.4	< 0.25	< 0.24	< 0.24	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.34	< 0.18	< 0.088	< 0.18	NA
n-Butylbenzene	NE	NE	< 0.2	< 0.2	< 0.21	< 0.21	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.39	< 0.28	< 0.14	< 0.28	NA
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.42	< 0.21	< 0.42	NA
n-Propylbenzene	NE	NE	< 0.5	< 0.5	< 0.19	< 0.19	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.41	< 0.20	< 0.1	< 0.20	NA
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.12	< 0.058	< 0.12	NA
p-Isopropyltoluene	NE	NE	< 0.2	< 0.2	< 0.24	< 0.24	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.36	< 0.17	< 0.085	< 0.17	NA
sec-Butylbenzene	NE	NE	< 0.25	< 0.25	< 0.19	< 0.19	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.40	< 0.26	< 0.13	< 0.26	NA
Styrene	10	100	< 0.5	< 0.5	< 0.26	< 0.26	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.39	< 0.13	< 0.065	< 0.13	NA
tert-Butylbenzene	NE	NE	< 0.2	< 0.2	< 0.24	< 0.24	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.40	< 0.24	< 0.12	< 0.24	NA
Tetrachloroethene	0.5	5	***41***	***670***	***360***	***370***	***240***	***260***	***210***	***130***	***190***	***170***	***47***	***75***	***100***	***110***	***58***	***46***	***55***	NA
Toluene	160	800	< 0.5	< 0.5	< 0.15	< 0.15	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.15	0.22 J	< 0.053	< 0.11	NA
trans-1,2-Dichloroethene	20	100	< 0.5	0.50	< 0.27	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.35	< 0.22	< 0.11	< 0.22	NA
Trichloroethene	0.5	5	***1***	***13***	***9.8***	***10***	***4.7***	***4.4***	***3.8***	***2.8***	***3***	***2.9***	< 0.19	***1.2***	***0.99***	***0.79***	< 0.12	0.15 J	0.22 J	NA
Trichlorofluoromethane	698	3490	< 2	< 2	< 0.22	< 0.22	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.5	< 0.26	NA
Vinyl chloride	0.02	0.2	< 0.2	< 0.2	< 0.13	< 0.13	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.20	< 0.32	< 0.16	< 0.32	NA
Xylenes, Total	400	2000	< 0.5	< 0.5	< 0.3	< 0.3	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.22	< 0.12	< 0.12	< 0.23	NA
Total PCBs																				
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	< 0.17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0072	< 0.0072
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	< 0.091	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0042	< 0.0042
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	< 0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.013	< 0.013
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	< 0.11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.011	< 0.011
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND
Dissolved PCBs																				
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																				
Total Dissolved Solids (mg/L)	NE	NE	NA	NA	NA	NA	960	930	970	NA	NA	NA	NA	NA	NA	NA	NA	NA	784	1060
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 2.0	2.4

Notes on Page 56.

Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-5D	MW-5D[3]	MW-5D	MW-5D	MW-5D	MW-5D	MW-5D	MW-5D	MW-5D	MW-5D	MW-5D	MW-5D	MW-5D	MW-5D	MW-5D	MW-5D[3]	MW-5D	MW-5D	MW-5D[3]	MW-5D	MW-5D	MW-5D	MW-5D	MW-5D	MW-5D
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	75 - 80 ft	75 - 80 ft	75 - 80 ft	75 - 80 ft	75 - 80 ft	75 - 80 ft	75 - 80 ft	75 - 80 ft	75 - 80 ft	75 - 80 ft	75 - 80 ft	75 - 80 ft	75 - 80 ft	75 - 80 ft	75 - 80 ft	75 - 80 ft	75 - 80 ft	75 - 80 ft	75 - 80 ft	75 - 80 ft	75 - 80 ft	75 - 80 ft	75 - 80 ft	75 - 80 ft	75 - 80 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	04/07/2010	04/07/2010	04/12/2012	11/28/2012	01/17/2013	02/13/2013	04/19/2013	07/18/2013	10/04/2013	04/15/2014	10/21/2014	04/13/2015	10/19/2015	01/21/2016	04/21/2016	04/21/2016	07/18/2016	10/12/2016	10/12/2016	1/18/2017	04/12/2017	10/04/2017	04/03/2018	10/12/2018	04/08/2019
VOCs																											
1,1,1,2-Tetrachloroethane	7	70	< 5	< 5	< 0.31	< 1.3	< 0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 0.25	< 0.25	< 0.25	< 0.46	< 0.11	< 0.11	< 0.11	< 0.11	0.51	< 11	< 11	< 0.55	< 0.22	< 0.11	< 0.55	< 5.4
1,1,1-Trichloroethane	40	200	< 10	< 10	< 0.26	< 1	< 0.4	< 0.4	< 0.4	< 1	< 1	< 0.20	< 0.20	< 0.20	< 0.38	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 10	< 10	< 0.50	< 0.2	< 0.10	< 0.50	< 4.9
1,1,2-Trichloroethane	0.5	5	< 5	< 5	< 0.3	< 1.4	< 0.56	< 0.56	< 0.56	< 1.4	< 1.4	< 0.28	< 0.28	< 0.28	< 0.35	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 10	< 10	< 0.50	< 0.2	< 0.10	< 0.50	< 11.0
1,1-Dichloroethene	0.7	7	< 10	< 10	< 0.29	< 1.6	< 0.62	< 0.62	< 0.62	< 1.6	< 1.6	< 0.31	< 0.31	< 0.31	< 0.39	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 14	< 14	< 0.70	< 0.28	< 0.14	< 0.70	< 4.9
1,2,4-Trimethylbenzene	96	480	< 4	< 4	< 0.22	< 0.7	< 0.28	< 0.28	< 0.28	< 0.7	< 0.7	< 0.14	< 0.14	< 0.14	< 0.36	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 6.0	< 6.0	< 0.30	< 0.12	< 0.060	< 0.30	< 16.8
1,2-Dibromoethane	0.005	0.05	< 4	< 4	< 0.45	< 1.8	< 0.72	< 0.72	< 0.72	< 1.8	< 1.8	< 0.36	< 0.36	< 0.36	< 0.39	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 13	< 13	< 0.65	< 0.26	< 0.13	< 0.65	< 16.6
1,2-Dichlorobenzene	60	600	< 4	< 4	< 0.21	< 1.4	< 0.54	< 0.54	< 0.54	< 1.4	< 1.4	< 0.27	< 0.27	< 0.27	< 0.33	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 7.6	< 7.6	< 0.38	< 0.15	< 0.076	< 0.38	< 14.1
1,2-Dichloropropane	0.5	5	< 10	< 10	< 0.36	< 1	< 0.4	< 0.4	< 0.4	< 1	< 1	< 0.20	< 0.20	< 0.20	< 0.43	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 10	< 10	< 0.50	< 0.2	< 0.10	< 0.50	< 5.7
1,2,3-Trichlorobenzene	NE	NE	< 5	< 5	< 0.36	< 1.2	< 0.48	< 0.48	< 0.48	< 1.2	< 1.2	< 0.24	< 0.24	< 0.24	< 0.46	< 0.045	< 0.045	< 0.045	0.23 BJ	< 0.045	< 4.5	< 4.5	< 0.23	< 0.09	< 0.045	< 0.23	< 12.5
1,2,4-Trichlorobenzene	14	70	< 5	< 5	< 0.22	< 1.6	< 0.62	< 0.62	< 0.62	< 1.6	< 1.6	< 0.31	< 0.31	< 0.31	< 0.34	< 0.077	< 0.077	< 0.077	0.13 BJ	< 0.077	< 7.7	< 7.7	< 0.39	< 0.15	< 0.077	< 0.39	< 19.0
1,3,5-Trimethylbenzene	96	480	< 4	< 4	< 0.23	< 0.9	< 0.36	< 0.36	< 0.36	< 0.9	< 0.9	< 0.18	< 0.18	< 0.18	< 0.25	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 7.5	< 7.5	< 0.38	< 0.15	< 0.075	< 0.38	< 17.5
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 300	< 300	< 15	< 6	< 3.0	< 15	< 58.7
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 95	< 95	< 4.8	< 1.9	< 0.95	< 4.8	< 49.1
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 77	< 77	< 3.9	< 1.5	< 0.77	< 3.9	< 30.6
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 340	< 340	< 17	< 6.8	< 3.4	< 17	< 54.8
Benzene	0.5	5	< 4	< 4	0.29 J	***1.1 J***	***1.2***	***1***	***0.88 J***	***1.5 J***	***2.8***	0.30 J	0.22 J	< 0.074	< 0.15	< 0.089	< 0.089	< 0.089	< 0.089	***5.7***	< 8.9	***9.0 J***	< 0.45	< 0.18	< 0.089	< 0.45	< 4.9
Bromodichloromethane	0.06	0.6	< 4	< 4	< 0.23	< 0.85	< 0.34	< 0.34	< 0.34	< 0.85	< 0.85	< 0.17	< 0.17	< 0.17	< 0.37	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 7.7	< 7.7	< 0.39	< 0.15	< 0.077	< 0.39	< 7.3
Bromoform	0.44	4.4	< 4	< 4	< 0.45	< 1.4	< 0.56	< 0.56	< 0.56	< 1.4	< 1.4	< 0.28	< 0.28	< 0.28	< 0.48	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 8.8	< 8.8	< 0.44	< 0.18	< 0.088	< 0.44	< 79.4
Bromomethane	1	10	< 10	< 10	< 0.49	< 1.6	< 0.62	< 0.62 *	< 0.62	< 1.6	< 1.6	< 0.31	< 0.31	< 0.31	< 0.80	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 59	< 59	< 3.0	< 1.2	< 0.59	< 3.0	< 19.4
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.053	< 0.053	0.11 J	< 0.053	< 0.053	< 5.3	15 J	0.70 J	< 0.11	0.10 J	< 0.27	< 7.5
Carbon tetrachloride	0.5	5	< 16	< 16	< 0.28	< 1.3	< 0.52	< 0.52	< 0.52	< 1.3	< 1.3	< 0.26	< 0.26	< 0.26	< 0.38	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 3.8	< 3.8	< 0.19	< 0.076	< 0.038	< 0.19	< 3.3
Chloroform	0.6	6	< 4	< 4	< 0.25	< 1	***1.0 J***	< 0.4	< 0.4	< 1	< 1	< 0.20	< 0.20	< 0.20	< 0.37	< 0.062	< 0.062	< 0.062	< 0.062	***1***	< 6.2	***11 BJ***	< 0.31	< 0.12	< 0.062	< 0.31	< 25.5
Chloromethane	3	30	< 6	< 6	< 0.24	< 0.9	< 0.36	< 0.36	< 0.36	< 0.9	< 0.9	< 0.18	< 0.18	< 0.18	< 0.32	< 0.16	< 0.16	< 0.16	< 0.16	0.57 BJ	***100 J***	< 16	< 0.80	1.4 J	< 0.16	< 1.7 U	< 43.8
cis-1,2-Dichloroethene	7	70	***48***	***48***	***26***	***93***	***110***	***94***	***100***	***120***	***140***	***77***	***100***	***190***	***10***	0.94	***11***	***13***	3.0	***210***	***270***	***230***	***13***	4	5.8	***12***	***149***
Dichlorodifluoromethane	200	1000	< 10	< 10	< 0.26	< 1	< 0.4	< 0.4	< 0.4	< 1	< 1	< 0.20	< 0.20	< 0.20	< 0.54	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 11	< 11	< 0.55	< 0.22	< 0.11	< 0.55	< 10
Ethylbenzene	140	700	< 10	< 10	< 0.14	< 0.65	< 0.26	< 0.26	< 0.26	< 0.65	< 0.65	< 0.13	< 0.13	< 0.13	< 0.18	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 5.4	< 5.4	< 0.27	< 0.11	< 0.054	< 0.27	< 4.4
Isopropylbenzene	NE	NE	< 4	< 4	< 0.21	< 0.7	< 0.28	< 0.28	< 0.28	< 0.7	< 0.7	< 0.14	< 0.14	< 0.14	< 0.39	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 8.1	< 8.1	< 0.41	< 0.16	< 0.081	< 0.41	< 7.9
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 5.7	8.0 BJ	< 0.29	< 0.11	0.060 J	< 0.29	< 9.3
Methyl tert-butyl ether	12	60	< 10	< 10	< 0.28	< 1.2	< 0.48	< 0.48	< 0.48	< 1.2	< 1.2	< 0.24	< 0.24	< 0.24	< 0.39	< 0.14	< 0.14	< 0.14	< 0.14	0.75	< 14	< 14	< 0.70	< 0.28	< 0.14	< 0.70	< 24.9
Methylene chloride	0.5	5	< 20	< 20	< 0.63	< 3.4	< 1.4	< 1.4	< 1.4	< 3.4	< 3.4	< 0.68	< 0.68	< 0.68	< 1.6	0.18 J	< 0.14	< 0.14	< 0.14	< 0.14	< 14	***18 BJ***	***1.3 J***	< 0.28	0.17 J	< 0.70	< 11.6
Naphthalene	10	100	< 5	< 5	< 0.24	< 0.8	< 0.32	< 0.32	< 0.32	< 0.8	< 0.8	< 0.16	< 0.16	< 0.16	< 0.34	< 0.088	< 0.088	< 0.088	0.22 BJ	< 0.088	< 8.8	< 8.8	< 0.44	< 0.18	< 0.088	< 0.44	< 23.5
n-Butylbenzene	NE	NE	< 4	< 4	< 0.21	< 0.65	< 0.26	< 0.26	< 0.26	< 0.65	< 0.65	< 0.13	< 0.13	< 0.13	< 0.39	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 14	< 14	< 0.70	< 0.28	< 0.14	< 0.70	< 14.2
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 21	< 21	< 1.1	< 0.42	< 0.21	< 1.1	< 34.2
n-Propylbenzene	NE	NE	< 10	< 10	< 0.19	< 0.65	< 0.26	< 0.26	< 0.26	< 0.65	< 0.65	< 0.13	< 0.13	< 0.13	< 0.41	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 10	< 10	< 0.50	< 0.2	< 0.10	< 0.50	< 16.2
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 5.8	< 5.8	< 0.29	< 0.12	< 0.058	< 0.29	< 5.2
p-Isopropyltoluene	NE	NE	< 4	< 4	< 0.24	< 0.85	< 0.34	< 0.34	< 0.34	< 0.85	< 0.85	< 0.17	< 0.17	< 0.17	< 0.36	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 8.5	< 8.5	< 0.43	< 0.17	< 0.085	< 0.43	< 16.0
sec-Butylbenzene	NE	NE	< 5	< 5	< 0.19	< 0.75	< 0.3	< 0.3	< 0.3	< 0.75	< 0.75	< 0.15	< 0.15	< 0.15	< 0.40	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 13	< 13	< 0.65	< 0.26	< 0.13	< 0.65	< 17.0
Styrene	10	100	< 10	< 10	< 0.26	< 0.5	< 0.2	< 0.2	< 0.2	< 0.5	< 0.5	< 0.10	< 0.10	< 0.10	< 0.39	< 0.065	< 0.065	< 0.065	0.24 J	< 0.065	< 6.5	< 6.5	< 0.33	< 0.13	< 0.065	< 0.33	< 9.3
tert-Butylbenzene	NE	NE	< 4	< 4	< 0.24	< 0.7	< 0.28	< 0.28	< 0.28	< 0.7	< 0.7	< 0.14	< 0.14	< 0.14	< 0.40	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 12	< 12	< 0.60	< 0.24	< 0.12	< 0.60	< 6.1
Tetrachloroethene	0.5	5	***1100***	***890***	***400***	***2000***	***1800***	***1700***	***1200***	***2000***	***2000***	< 0.17	***8.4***	***66***	***110***	***10***	***7.5***	***7.1***	***8.2***	***3600***	***4100***	***3500***	***190***	***68***	***57***	***150***	***2170***
Toluene	160	800	< 10	< 10	0.30 J	< 0.55	< 0.22	< 0.22	< 0.22	< 0.55	< 0.55	< 0.11	< 0.11	< 0.11	< 0.15	< 0.053	< 0.053	< 0.053	< 0.053	0.10 J	11 J	16 BJ	< 0.27	< 0.11	0.060 J	< 0.27	< 3.4
trans-1,2-Dichloroethene	20	100	< 10	< 10	1.3	3.9 J	3.9	3.1	3.4	3.8 J	2.9 J	< 0.25	< 0.25	< 0.25	< 0.35	< 0.11	< 0.11	0.11 J	< 0.11	3.6	< 11	< 11	< 0.55	< 0.22	0.28 J	< 0.55	< 21.8
Trichloroethene	0.5	5	***100***	***97***	***48***	***190***	***180***	***180***	***170***	***160***	***110***	< 0.19	***2.5***	***31***	***6.4***	***0.64***	***3***	***3***	***0.7***	***150***	***180***	***120 B***	***9.1***	***3.7***	***3.2***	***7.8***	***72.3***
Trichlorofluoromethane	698	3490	< 40	< 40	< 0.22	< 0.95	< 0.38	< 0.38	< 0.38	< 0.95	< 0.95	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 50	< 50	< 2.5	< 1	< 0.5	< 0.65	< 4.3
Vinyl chloride	0.02	0.2	< 4	< 4	< 0.13	< 0.5	< 0.2	< 0.2	< 0.2	< 0.5	< 0.5	< 0.10	< 0.10	< 0.10	< 0.20	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 16	< 16	< 0.80	< 0.32	< 0.16	< 0.80	< 3.5
Xylenes, Total	400	2000	< 10	< 10	< 0.3	< 0.34	< 0.14	< 0.14	< 0.14	< 0.34	< 0.34	< 0.068	< 0.068	< 0.068	< 0.22	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 5.8	< 12	< 0.58	< 0.23	< 0.12	< 0.58	< 30.0
Total PCBs																											
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	< 0.17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0072	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	< 0.094	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0042	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	< 0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.013	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	< 0.11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.011	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA
Dissolved PCBs																											
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																											
Total Dissolved Solids (mg/L)	NE	NE	NA	NA	NA	980	930	960	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	708	NA
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 2.0	NA

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Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-5D2	MW-5D2	MW-5D2	MW-5D2	MW-5D2	MW-5D2	MW-5D2	MW-5D2	MW-5D2	MW-5D2	MW-5D2	MW-5D2[3]	MW-5D2	MW-5D2	MW-5D2	MW-5D2	MW-5D2	MW-5D2	MW-5D2	MW-5D2
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	165.8 - 170.8 ft	165.8 - 170.8 ft	165.8 - 170.8 ft	165.8 - 170.8 ft	165.8 - 170.8 ft	165.8 - 170.8 ft	165.8 - 170.8 ft	165.8 - 170.8 ft	165.8 - 170.8 ft	165.8 - 170.8 ft	165.8 - 170.8 ft	165.8 - 170.8 ft	165.8 - 170.8 ft	165.8 - 170.8 ft	165.8 - 170.8 ft	165.8 - 170.8 ft	165.8 - 170.8 ft	165.8 - 170.8 ft	165.8 - 170.8 ft	165.8 - 170.8 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	11/30/2012	01/17/2013	02/13/2013	04/19/2013	07/18/2013	10/09/2013	04/15/2014	10/21/2014	04/15/2015	10/22/2015	01/21/2016	01/21/2016	04/21/2016	07/18/2016	10/12/2016	1/20/2017	04/12/2017	10/04/2017	04/03/2018	10/12/2018	04/10/2019
VOCs																							
1,1,1,2-Tetrachloroethane	7	70	NA	< 0.25	< 0.25	< 0.25	< 0.5	< 0.25	< 0.50	< 0.25	< 0.50	< 0.92	< 1.1	< 1.1	< 4.4	< 1.1	< 2.2	< 2.2	< 2.2	< 2.2	< 0.55	< 5.5	< 5.4
1,1,1-Trichloroethane	40	200	NA	< 0.2	< 0.2	< 0.2	< 0.4	< 0.2	< 0.40	< 0.20	< 0.40	< 0.76	< 1.0	< 1.0	< 4.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2	< 0.50	< 5.0	< 4.9
1,1,2-Trichloroethane	0.5	5	NA	< 0.28	< 0.28	< 0.28	< 0.56	< 0.28	< 0.56	< 0.28	< 0.56	< 0.70	< 1.0	< 1.0	< 4.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2	< 0.50	< 5.0	< 11.0
1,1-Dichloroethene	0.7	7	NA	< 0.31	< 0.31	< 0.31	< 0.62	< 0.31	< 0.62	< 0.31	< 0.62	< 0.78	< 1.4	< 1.4	< 5.6	< 1.4	< 2.8	< 2.8	< 2.8	< 2.8	< 0.70	< 7.0	< 4.9
1,2,4-Trimethylbenzene	96	480	NA	< 0.14	< 0.14	< 0.14	< 0.28	< 0.14	< 0.28	< 0.14	< 0.28	< 0.72	< 0.60	< 0.60	< 2.4	< 0.60	< 1.2	< 1.2	< 1.2	< 1.2	< 0.30	< 3.0	< 16.8
1,2-Dibromoethane	0.005	0.05	NA	< 0.36	< 0.36	< 0.36	< 0.72	< 0.36	< 0.72	< 0.36	< 0.72	< 0.77	< 1.3	< 1.3	< 5.2	< 1.3	< 2.6	< 2.6	< 2.6	< 2.6	< 0.65	< 6.5	< 16.6
1,2-Dichlorobenzene	60	600	NA	< 0.27	< 0.27	< 0.27	< 0.54	< 0.27	< 0.54	< 0.27	< 0.54	< 0.67	< 0.76	< 0.76	< 3.0	< 0.76	< 1.5	< 1.5	< 1.5	< 1.5	< 0.38	< 3.8	< 14.1
1,2-Dichloropropane	0.5	5	NA	< 0.2	< 0.2	< 0.2	< 0.4	< 0.2	< 0.40	< 0.20	< 0.40	< 0.86	< 1.0	< 1.0	< 4.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2	< 0.50	< 5.0	< 5.7
1,2,3-Trichlorobenzene	NE	NE	NA	< 0.24	< 0.24	< 0.24	< 0.48	< 0.24	< 0.48	< 0.24	< 0.48	< 0.92	< 0.45	< 0.45	7.2 BJ	< 0.45	< 0.90	< 0.90	< 0.90	< 0.9	< 0.23	< 2.3	< 12.5
1,2,4-Trichlorobenzene	14	70	NA	< 0.31	< 0.31	< 0.31	< 0.62	< 0.31	< 0.62	< 0.31	< 0.62	< 0.68	< 0.77	< 0.77	5.2 J	< 0.77	< 1.5	< 1.5	< 1.5	< 1.5	< 0.39	< 3.9	< 19.0
1,3,5-Trimethylbenzene	96	480	NA	< 0.18	< 0.18	< 0.18	< 0.36	< 0.18	< 0.36	< 0.18	< 0.36	< 0.51	< 0.75	< 0.75	< 3.0	< 0.75	< 1.5	< 1.5	< 1.5	< 1.5	< 0.38	< 3.8	< 17.5
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 30	< 30	< 120	< 30	< 60	< 60	< 60	< 60	< 15	< 150	< 58.7
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 9.5	< 9.5	< 38	< 9.5	< 19	< 19	< 19	< 19	< 4.8	< 48	< 49.1
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 7.7	< 7.7	< 31	< 7.7	< 15	< 15	< 15	< 15	< 3.9	< 39	< 30.6
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 34	< 34	< 140	< 34	< 68	< 68	< 68	< 68	< 17	< 170	< 54.8
Benzene	0.5	5	NA	< 0.074	< 0.074	< 0.074	< 0.15	< 0.074	< 0.15	< 0.074	< 0.15	< 0.29	< 0.89	< 0.89	< 3.6	< 0.89	< 1.8	< 1.8	< 1.8	< 1.8	< 0.45	< 4.5	< 4.9
Bromodichloromethane	0.06	0.6	NA	< 0.17	< 0.17	< 0.17	< 0.34	< 0.17	< 0.34	< 0.17	< 0.34	< 0.74	< 0.77	< 0.77	< 3.1	< 0.77	< 1.5	< 1.5	< 1.5	< 1.5	< 0.39	< 3.9	< 7.3
Bromoform	0.44	4.4	NA	< 0.28	< 0.28	< 0.28	< 0.56	< 0.28	< 0.56	< 0.28	< 0.56	< 0.97	< 0.88	< 0.88	< 3.5	< 0.88	< 1.8	< 1.8	< 1.8	< 1.8	< 0.44	< 4.4	< 79.4
Bromomethane	1	10	NA	< 0.31	< 0.31 *	< 0.31	< 0.62	< 0.31	< 0.62	< 0.31	< 0.62	< 1.6	< 5.9	< 5.9	< 24	< 5.9	< 12	< 12	< 12	< 12	< 3.0	< 30	< 19.4
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.53	< 0.53	< 2.1	< 0.53	< 1.1	< 1.1	< 1.1	< 1.1	< 0.27	< 2.7	< 7.5
Carbon tetrachloride	0.5	5	NA	< 0.26	< 0.26	< 0.26	< 0.52	< 0.26	< 0.52	< 0.26	< 0.52	< 0.77	< 0.38	< 0.38	< 1.5	< 0.38	< 0.76	< 0.76	< 0.76	< 0.76	< 0.19	< 1.9	< 3.3
Chloroform	0.6	6	NA	< 0.2	< 0.2	< 0.2	< 0.4	< 0.2	< 0.40	< 0.20	< 0.40	< 0.74	< 0.62	< 0.62	< 2.5	< 0.62	< 1.2	< 1.2	***2.2 J***	< 1.2	< 0.31	< 3.1	< 25.5
Chloromethane	3	30	NA	< 0.18	< 0.18	< 0.18	< 0.36	< 0.18	< 0.36	< 0.18	< 0.36	< 0.64	< 1.6	< 1.6	< 6.4	< 1.6	***11 BJ***	***5.8 BJ***	< 3.2	***4.2 J+***	< 0.80	< 15 U	< 43.8
cis-1,2-Dichloroethene	7	70	NA	6.6	***9.2***	4.7	3.6	1.5	< 0.24	0.79 J	2.1	2.9	1.4 J	1.6 J	< 4.4	6.1	< 2.2	< 2.2	2.2 J	4.8 J	< 0.55	***10 J***	***15.0 J***
Dichlorodifluoromethane	200	1000	NA	< 0.2	< 0.2	< 0.2	< 0.4	< 0.2	< 0.40	< 0.20	< 0.40	< 1.1	< 1.1	< 1.1	< 4.4	< 1.1	< 2.2	< 2.2	< 2.2	< 2.2	< 0.55	< 5.5	< 10
Ethylbenzene	140	700	NA	< 0.13	< 0.13	< 0.13	< 0.26	< 0.13	< 0.26	< 0.13	< 0.26	< 0.37	< 0.54	< 0.54	< 2.2	< 0.54	< 1.1	< 1.1	< 1.1	< 1.1	< 0.27	< 2.7	< 4.4
Isopropylbenzene	NE	NE	NA	< 0.14	< 0.14	< 0.14	< 0.28	< 0.14	< 0.28	< 0.14	< 0.28	< 0.77	< 0.81	< 0.81	< 3.2	< 0.81	< 1.6	< 1.6	< 1.6	< 1.6	< 0.41	< 4.1	< 7.9
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.57	< 0.57	< 2.3	< 0.57	< 1.1	1.6 BJ	< 1.1	1.2 BJ	< 0.29	< 2.9	< 9.3
Methyl tert-butyl ether	12	60	NA	< 0.24	< 0.24	< 0.24	< 0.48	< 0.24	< 0.48	< 0.24	< 0.48	< 0.79	< 1.4	< 1.4	< 5.6	< 1.4	< 2.8	< 2.8	< 2.8	< 2.8	< 0.70	< 7.0	< 24.9
Methylene chloride	0.5	5	NA	< 0.68	< 0.68	< 0.68	< 1.4	***5.7***	< 1.4	< 0.68	< 1.4	< 3.3	< 1.4	< 1.4	< 5.6	< 1.4	< 2.8	***3.4 BJ***	< 2.8	< 2.8	***0.90 J+***	< 7.0	< 11.6
Naphthalene	10	100	NA	< 0.16	< 0.16	< 0.16	< 0.32	< 0.16	< 0.32	< 0.16	< 0.32	< 0.67	< 0.88	< 0.88	***12 BJ***	< 0.88	< 1.8	< 1.8	< 1.8	< 1.8	< 0.44	< 4.4	< 23.5
n-Butylbenzene	NE	NE	NA	< 0.13	< 0.13	< 0.13	< 0.26	< 0.13	< 0.26	< 0.13	< 0.26	< 0.78	< 1.4	< 1.4	< 5.6	< 1.4	< 2.8	< 2.8	< 2.8	< 2.8	< 0.70	< 7.0	< 14.2
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 2.1	< 2.1	< 8.4	< 2.1	< 4.2	< 4.2	< 4.2	< 4.2	< 1.1	< 11	< 34.2
n-Propylbenzene	NE	NE	NA	< 0.13	< 0.13	< 0.13	< 0.26	< 0.13	< 0.26	< 0.13	< 0.26	< 0.83	< 1.0	< 1.0	< 4.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2	< 0.50	< 5.0	< 16.2
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.58	< 0.58	< 2.3	< 0.58	< 1.2	1.4 BJ	< 1.2	< 1.2	< 0.29	< 2.9	< 5.2
p-Isopropyltoluene	NE	NE	NA	< 0.17	< 0.17	< 0.17	< 0.34	< 0.17	< 0.34	< 0.17	< 0.34	< 0.72	< 0.85	< 0.85	< 3.4	< 0.85	< 1.7	< 1.7	< 1.7	< 1.7	< 0.43	< 4.3	< 16.0
sec-Butylbenzene	NE	NE	NA	< 0.15	< 0.15	< 0.15	< 0.3	< 0.15	< 0.30	< 0.15	< 0.30	< 0.80	< 1.3	< 1.3	< 5.2	< 1.3	< 2.6	< 2.6	< 2.6	< 2.6	< 0.65	< 6.5	< 17.0
Styrene	10	100	NA	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 0.20	< 0.10	< 0.20	< 0.77	< 0.65	< 0.65	< 2.6	< 0.65	< 1.3	< 1.3	< 1.3	1.4 BJ	< 0.33	< 3.3	< 9.3
tert-Butylbenzene	NE	NE	NA	< 0.14	< 0.14	< 0.14	< 0.28	< 0.14	< 0.28	< 0.14	< 0.28	< 0.80	< 1.2	< 1.2	< 4.8	< 1.2	< 2.4	< 2.4	< 2.4	< 2.4	< 0.60	< 6.0	< 6.1
Tetrachloroethene	0.5	5	NA	***650***	***650***	***640***	***710***	***110***	***520***	***47***	***700***	***640***	***380***	***380***	***160***	***970***	***550***	***570***	***670***	***940***	***210***	***1900***	***2150***
Toluene	160	800	NA	0.70	0.22 J	0.35 J	2.4	0.43 J	< 0.22	< 0.11	< 0.22	< 0.30	< 0.53	< 0.53	< 2.1	< 0.53	< 1.1	3.2 BJ	< 1.1	1.2 BJ	< 0.27	< 2.7	< 3.4
trans-1,2-Dichloroethene	20	100	NA	< 0.25	< 0.25	< 0.25	< 0.5	< 0.25	< 0.50	< 0.25	< 0.50	< 0.70	< 1.1	< 1.1	< 4.4	< 1.1	< 2.2	< 2.2	< 2.2	< 2.2	< 0.55	< 5.5	< 21.8
Trichloroethene	0.5	5	NA	***9.5***	***8.4***	***7.4***	***8.1***	***6.1***	***7.1***	***2.2***	***8.2***	***9.1***	***4.7 J***	***5.5***	< 2.5	***13***	***8.4 J***	***6.6 BJ***	***7.8 J***	***12***	***2.3 J***	***25 J***	***26.7***
Trichlorofluoromethane	698	3490	NA	< 0.19	< 0.19	< 0.19	< 0.38	< 0.19	< 2.0	< 1.0	< 2.0	< 2.0	< 5.0	< 5.0	< 20	< 5.0	< 10	< 10	< 10	< 10	< 2.5	< 6.5	< 4.3
Vinyl chloride	0.02	0.2	NA	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 0.20	< 0.10	< 0.20	< 0.41	< 1.6	< 1.6	< 6.4	< 1.6	< 3.2	< 3.2	< 3.2	< 3.2	< 0.80	< 8.0	< 3.5
Xylenes, Total	400	2000	NA	< 0.068	< 0.068	< 0.068	< 0.14	< 0.068	< 0.14	< 0.068	< 0.14	< 0.44	< 0.58	< 0.58	< 2.3	< 0.58	< 1.2	3.0 BJ	< 2.3	< 2.3	< 0.58	< 5.8	< 30.0
Total PCBs																							
Aroclor-1016	0.003	0.03	NA	< 0.19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	< 0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	< 0.14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	< 0.12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																							
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																							
Total Dissolved Solids (mg/L)	NE	NE	720	590	610	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-5D3	MW-5D3	MW-5D3	MW-5D3	MW-5D3	MW-5D3	MW-5D3	MW-5D3	MW-5D3	MW-5D3	MW-5D3	MW-5D3	MW-5D3	MW-5D3	MW-5D3	MW-5D3	MW-5D3	MW-5D3	MW-5D3
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	225 - 235 ft	225 - 235 ft	225 - 235 ft	225 - 235 ft	225 - 235 ft	225 - 235 ft	225 - 235 ft	225 - 235 ft	225 - 235 ft	225 - 235 ft	225 - 235 ft	225 - 235 ft	225 - 235 ft	225 - 235 ft	225 - 235 ft	225 - 235 ft	225 - 235 ft	225 - 235 ft	225 - 235 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	11/28/2012	01/18/2013	02/13/2013	04/21/2013	07/17/2013	10/07/2013	04/16/2014	10/20/2014	04/13/2015	10/21/2015	01/21/2016	04/21/2016	07/20/2016	10/12/2016	1/19/2017	04/12/2017	10/04/2017	04/03/2018	10/11/2018	04/10/2019
VOCs																					
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.46	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.27
1,1,1-Trichloroethane	40	200	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.38	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	< 0.10	< 0.10	< 0.24
1,1,2-Trichloroethane	0.5	5	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.35	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	< 0.10	< 0.10	< 0.55
1,1-Dichloroethene	0.7	7	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.39	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.24
1,2,4-Trimethylbenzene	96	480	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.36	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.06	< 0.060	< 0.060	< 0.84
1,2-Dibromoethane	0.005	0.05	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.39	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.83
1,2-Dichlorobenzene	60	600	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.33	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.71
1,2-Dichloropropane	0.5	5	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.43	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	< 0.10	< 0.10	< 0.28
1,2,3-Trichlorobenzene	NE	NE	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	0.18 J	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.63
1,2,4-Trichlorobenzene	14	70	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.34	0.13 J	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.95
1,3,5-Trimethylbenzene	96	480	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.25	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.87
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3	< 3.0	< 3.0	< 2.9
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 2.5
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 1.5
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.4	< 3.4	< 3.4	< 3.4	9.6 J+	15 BJ	< 3.4	< 3.4	< 4.6 U	< 2.7
Benzene	0.5	5	< 0.074	0.28 J	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.15	< 0.089	< 0.089	< 0.089	0.19 J	0.15 BJ	< 0.089	< 0.089	< 0.089	< 0.089	< 0.25
Bromodichloromethane	0.06	0.6	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.37	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.36
Bromoform	0.44	4.4	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.48	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 4.0
Bromomethane	1	10	< 0.31	< 0.31	< 0.31 *	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31 *	< 0.31	< 0.80	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.97
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.053	< 0.053	0.10 J	< 0.053	< 0.053	< 0.053	< 0.053	0.080 J	< 0.053	< 0.37
Carbon tetrachloride	0.5	5	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.38	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.17
Chloroform	0.6	6	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.37	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 1.3
Chloromethane	3	30	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.32	< 0.16	< 0.16	< 0.16	0.67 BJ	0.37 BJ	< 0.16	0.22 J+	< 0.16	< 0.56 U	< 2.2
cis-1,2-Dichloroethene	7	70	3.1	***12***	***12***	1.6	2.1	4.5	< 0.12	< 0.12	< 0.12	< 0.41	0.19 J	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.27
Dichlorodifluoromethane	200	1000	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.54	< 0.11	< 0.11	0.11 J	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.50
Ethylbenzene	140	700	< 0.13	< 0.13	< 0.13	< 0.13	0.32 J	< 0.13	< 0.13	< 0.13	< 0.13	< 0.18	< 0.054	< 0.054	0.18 J	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.22
Isopropylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.39	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.39
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.057	< 0.057	0.49 J	< 0.057	< 0.057	< 0.057	0.06 BJ	< 0.057	< 0.057	< 0.47
Methyl tert-butyl ether	12	60	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.39	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 1.2
Methylene chloride	0.5	5	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 1.6	0.16 J	< 0.14	< 0.14	< 0.14	0.17 BJ	< 0.14	< 0.14	< 0.14	< 0.29 U	< 0.58
Naphthalene	10	100	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.34	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	0.36 BJ	< 0.088	< 0.088	< 0.088	< 1.2
n-Butylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.39	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.71
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 1.7
n-Propylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.41	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	< 0.10	< 0.10	< 0.81
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.058	< 0.058	0.24 J	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.26
p-Isopropyltoluene	NE	NE	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.36	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.80
sec-Butylbenzene	NE	NE	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.40	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.85
Styrene	10	100	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.39	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.47
tert-Butylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.40	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.30
Tetrachloroethene	0.5	5	***19***	***0.59 J***	***0.83 J***	***1.8***	***0.78 J***	***1.5***	< 0.17	< 0.17	< 0.17	< 0.37	0.14 J	< 0.081	0.10 J	0.22 J	< 0.081	0.25 BJ	< 0.081	< 0.081	< 0.081	< 0.33
Toluene	160	800	< 0.11	< 0.11	< 0.11	0.29 J	0.53	0.20 J	< 0.11	< 0.11	< 0.11	< 0.15	0.080 J	< 0.053	< 0.053	0.15 J	0.17 BJ	< 0.053	0.08 BJ	0.12 J	< 0.053	< 0.17
trans-1,2-Dichloroethene	20	100	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.35	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 1.1
Trichloroethene	0.5	5	***2.6***	< 0.19	< 0.19	< 0.19	< 0.19	0.29 J	< 0.19	< 0.19	< 0.19	< 0.16	< 0.062	< 0.062	< 0.062	< 0.062	0.16 BJ	0.18 J	< 0.062	< 0.062	< 0.062	< 0.26
Trichlorofluoromethane	698	3490	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.5	< 0.5	< 0.13	< 0.21
Vinyl chloride	0.02	0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.20	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.17
Xylenes, Total	400	2000	< 0.068	< 0.068	< 0.068	< 0.068	0.68 J	< 0.068	< 0.068	< 0.068	< 0.068	0.25 J	< 0.058	< 0.058	0.73	< 0.058	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 1.5
Total PCBs																					
Aroclor-1016	0.003	0.03	NA	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	< 0.09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	< 0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	< 0.11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																					
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																					
Total Dissolved Solids (mg/L)	NE	NE	360	290	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes on Page 56.

Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-6S	MW-6S	MW-6S	MW-6S	MW-6S	MW-6S	MW-6S	MW-6S	MW-6S	MW-6S	MW-6S	MW-6S	MW-6S	MW-6S	MW-6S	MW-6S[3]	MW-6S	MW-6S	MW-6S[3]	MW-6S
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	31.4 - 41.4 ft	31.4 - 41.4 ft	31.4 - 41.4 ft	31.4 - 41.4 ft	31.4 - 41.4 ft	31.4 - 41.4 ft	31.4 - 41.4 ft	31.4 - 41.4 ft	31.4 - 41.4 ft	31.4 - 41.4 ft	31.4 - 41.4 ft	31.4 - 41.4 ft	31.4 - 41.4 ft	31.4 - 41.4 ft	31.4 - 41.4 ft	31.4 - 41.4 ft	31.4 - 41.4 ft	31.4 - 41.4 ft	31.4 - 41.4 ft	31.4 - 41.4 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	12/31/2009	04/07/2010	07/01/2010	10/01/2010	12/28/2010	04/11/2012	01/17/2013	04/20/2013	07/18/2013	10/07/2013	04/17/2014	10/16/2014	04/14/2015	10/22/2015	10/12/2016	10/09/2017	10/09/2017	04/04/2018	10/15/2018	10/15/2018	04/12/2019
VOCs																							
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.31	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.46	< 0.11	< 0.11	< 0.11	NA	< 0.11	< 0.11	NA
1,1,1-Trichloroethane	40	200	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.38	< 0.10	< 0.1	< 0.1	NA	< 0.10	< 0.10	NA
1,1,2-Trichloroethane	0.5	5	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.3	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.35	< 0.10	< 0.1	< 0.1	NA	< 0.10	< 0.10	NA
1,1-Dichloroethene	0.7	7	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.29	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.39	< 0.14	< 0.14	< 0.14	NA	< 0.14	< 0.14	NA
1,2,4-Trimethylbenzene	96	480	4.3	3.3	1.3	2.2	3.2	4.8	12	0.92 J	< 0.14	1.4	2.0	0.96 J	1.4	1.3	0.83	0.37 J	0.3 J	NA	< 0.060	< 0.060	NA
1,2-Dibromoethane	0.005	0.05	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.45	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.39	< 0.13	< 0.13	< 0.13	NA	< 0.13	< 0.13	NA
1,2-Dichlorobenzene	60	600	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.21	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.33	< 0.076	< 0.076	< 0.076	NA	< 0.076	< 0.076	NA
1,2-Dichloropropane	0.5	5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.36	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.43	< 0.10	< 0.1	< 0.1	NA	< 0.10	< 0.10	NA
1,2,3-Trichlorobenzene	NE	NE	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.36	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.045	0.07 BJ	< 0.045	NA	< 0.045	< 0.045	NA
1,2,4-Trichlorobenzene	14	70	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.22	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.34	< 0.077	< 0.077	< 0.077	NA	< 0.077	< 0.077	NA
1,3,5-Trimethylbenzene	96	480	0.92	7.3	0.27	4.6	0.39	1.5	3.4	< 0.18	< 0.18	< 0.18	0.73 J	< 0.18	1.1	1.7	0.45 J	0.17 J	0.15 J	NA	< 0.075	< 0.075	NA
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.0	< 3	< 3	NA	< 3.0	< 3.0	NA
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.95	< 0.95	< 0.95	NA	< 0.95	< 0.95	NA
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.77	< 0.77	< 0.77	NA	< 0.77	< 0.77	NA
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.4	< 3.4	< 3.4	NA	< 3.4	< 13 U	NA
Benzene	0.5	5	***7.6***	***7.9***	***5***	***5.3***	***5***	***4.1***	***9.3***	***1.9***	0.34 J	***2.6***	***2.8***	***2.1***	***3.3***	***3.8***	***2.9***	***0.71***	***0.65***	NA	0.10 J	< 0.089	NA
Bromodichloromethane	0.06	0.6	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.23	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	***1.2***	< 0.077	< 0.077	< 0.077	NA	< 0.077	< 0.077	NA
Bromoform	0.44	4.4	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.45	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.48	< 0.088	< 0.088	< 0.088	NA	< 0.088	< 0.088	NA
Bromomethane	1	10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.49	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.80	< 0.59	< 0.59	< 0.59	NA	< 0.59	< 0.59	NA
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.053	< 0.053	< 0.053	NA	< 0.053	< 0.053	NA
Carbon tetrachloride	0.5	5	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.28	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.38	< 0.038	< 0.038	< 0.038	NA	< 0.038	< 0.038	NA
Chloroform	0.6	6	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.25	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.37	< 0.062	< 0.062	< 0.062	NA	< 0.062	< 0.062	NA
Chloromethane	3	30	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.24	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.32	0.62 BJ	2.2	***3.6***	NA	< 0.50 U	< 0.50 U	NA
cis-1,2-Dichloroethene	7	70	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.22	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.41	< 0.11	< 0.11	< 0.11	NA	< 0.11	< 0.11	NA
Dichlorodifluoromethane	200	1000	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.54	< 0.11	< 0.11	< 0.11	NA	< 0.11	< 0.11	NA
Ethylbenzene	140	700	23	14	6.0	13	15	9.8	40	0.18 J	< 0.13	8.0	7.5	3.5	6.4	7.1	2.0	0.79	0.75	NA	< 0.054	< 0.054	NA
Isopropylbenzene	NE	NE	12	9.4	5.3	7.5	6.4	4.1	12	< 0.14	< 0.14	3.2	2.6	2.1	2.9	3.7	1.4	0.53	0.52	NA	< 0.081	< 0.081	NA
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.78 J	0.37 J	0.35 J	NA	< 0.057	< 0.057	NA
Methyl tert-butyl ether	12	60	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.28	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.39	< 0.14	< 0.14	< 0.14	NA	< 0.14	< 0.14	NA
Methylene chloride	0.5	5	< 1	< 1	< 1	< 1	< 1	***8.3***	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	***9.4 cn***	< 0.14	< 0.14	< 0.14	NA	< 0.29 U	< 0.35 U	NA
Naphthalene	10	100	***26***	***14***	6.4	***10***	***16***	***19***	***43***	< 0.16	< 0.16	3.8	4.2	1.9	6.6	9.8	2.0 J	0.69 BJ	0.29 BJ	NA	< 0.088	< 0.088	NA
n-Butylbenzene	NE	NE	1.6	1.6	0.92	1.2	0.86	< 0.21	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.39	< 0.14	< 0.14	< 0.14	NA	< 0.14	< 0.14	NA
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	< 0.21	< 0.21	NA	< 0.21	< 0.21	NA
n-Propylbenzene	NE	NE	4.9	3.7	1.9	3.3	3.0	1.8	6.8	< 0.13	< 0.13	1.3	1.5	< 0.13	1.2	1.5	0.46 J	0.19 J	< 0.1	NA	< 0.10	< 0.10	NA
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.17 J	0.11 J	0.1 J	NA	< 0.058	< 0.058	NA
p-Isopropyltoluene	NE	NE	1.7	1.6	0.72	1.1	0.83	< 0.24	2.4	< 0.17	< 0.17	< 0.17	0.56 J	< 0.17	< 0.17	0.95 J	0.35 J	0.16 J	0.14 J	NA	< 0.085	< 0.085	NA
sec-Butylbenzene	NE	NE	1.9	1.8	1.5	1.5	1.0	0.56 J	1.8	< 0.15	< 0.15	< 0.15	0.82 J	< 0.15	< 0.15	0.86 J	0.38 J	0.13 J	< 0.13	NA	< 0.13	< 0.13	NA
Styrene	10	100	0.53	0.51	< 0.5	< 0.5	1.1	< 0.26	0.64 J	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.39	< 0.065	0.1 BJ	0.07 J	NA	< 0.065	< 0.065	NA
tert-Butylbenzene	NE	NE	0.27	0.31	0.22	0.24	< 0.2	< 0.24	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.40	< 0.12	< 0.12	< 0.12	NA	< 0.12	< 0.12	NA
Tetrachloroethene	0.5	5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.22	< 0.17	***0.53 J***	< 0.17	< 0.17	***0.66 J***	< 0.17	< 0.17	< 0.37	***0.6***	< 0.081	< 0.081	NA	0.10 J	< 0.081	NA
Toluene	160	800	3.3	3.3	1.2	1.8	2.0	2.5	6.3	0.82	< 0.11	1.1	1.1	< 0.11	1.9	2.4	0.75	0.32 BJ	0.32 J	NA	< 0.053	0.070 J	NA
trans-1,2-Dichloroethene	20	100	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.35	< 0.11	< 0.11	< 0.11	NA	< 0.11	< 0.11	NA
Trichloroethene	0.5	5	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.18	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.16	< 0.062	< 0.062	< 0.062	NA	< 0.062	< 0.062	NA
Trichlorofluoromethane	698	3490	< 1.7	< 2	< 2	< 2	< 2	< 0.22	< 0.19	< 0.19	< 0.19	< 0.19	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 0.5	< 0.5	NA	< 0.13	< 0.13	NA
Vinyl chloride	0.02	0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.13	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.20	< 0.16	< 0.16	< 0.16	NA	< 0.16	< 0.16	NA
Xylenes, Total	400	2000	9.6	8.2	2.6	4.5	6.4	7.8	25	1.8	< 0.068	3.3	2.8	1.9	3.3	3.7	0.95	0.48 J	0.45 J	NA	< 0.12	< 0.12	NA
Total PCBs																							
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	< 0.17	NA	NA	NA	NA	NA	NA	NA	NA	< 0.035	< 0.035	< 0.035	< 0.0072	< 0.0072	< 0.0072
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	< 0.094	NA	NA	NA	NA	NA	NA	NA	NA	< 0.037	< 0.037	< 0.037	< 0.0042	< 0.0042	< 0.0042
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	< 0.13	NA	NA	NA	NA	NA	NA	NA	NA	< 0.038	< 0.038	< 0.038	< 0.013	< 0.013	< 0.013
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	< 0.11	NA	NA	NA	NA	NA	NA	NA	NA	< 0.02	< 0.02	< 0.020	< 0.011	< 0.011	< 0.011
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND
Dissolved PCBs																							
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																							
Total Dissolved Solids (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3970	3910	3400	3940	3940	4400
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.2 J	1.2 J	7.4	1.0	1.2	1.8 J

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Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-6D	MW-6D	MW-6D	MW-6D	MW-6D	MW-6D	MW-6D	MW-6D	MW-6D[3]	MW-6D	MW-6D[3]	MW-6D	MW-6D[3]	MW-6D	MW-6D[3]	MW-6D
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	12/31/2009	04/07/2010	07/01/2010	10/01/2010	12/28/2010	03/31/2011	04/12/2012	01/16/2013	01/16/2013	04/20/2013	04/20/2013	07/18/2013	07/18/2013	10/07/2013	10/07/2013	04/17/2014
VOCs																		
1,1,1,2-Tetrachloroethane	7	70	< 13	< 20	< 13	< 0.25	< 2.5	< 10	< 0.62	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.25	< 0.25	< 0.50
1,1,1-Trichloroethane	40	200	< 25	< 40	< 25	< 0.5	< 5	< 20	< 0.52	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.2	< 0.2	< 0.40
1,1,2-Trichloroethane	0.5	5	< 13	< 20	< 13	< 0.25	< 2.5	< 10	< 0.6	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.28	< 0.28	< 0.56
1,1-Dichloroethene	0.7	7	< 25	< 40	< 25	< 0.5	< 5	< 20	< 0.58	< 0.62	< 0.62	< 0.62	< 0.62	< 0.62	< 0.62	< 0.31	< 0.31	< 0.62
1,2,4-Trimethylbenzene	96	480	***330***	***130***	***130***	***160***	***180***	74	19	23	25	11	6.1	16	17	41	38	9.7
1,2-Dibromoethane	0.005	0.05	***15***	< 16	< 10	***11***	***9.7***	< 8	< 0.9	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.36	< 0.36	< 0.72
1,2-Dichlorobenzene	60	600	< 10	< 16	< 10	< 0.2	< 2	< 8	< 0.42	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.27	< 0.27	< 0.54
1,2-Dichloropropane	0.5	5	< 25	< 40	< 25	***7.2***	***6***	< 20	< 0.72	< 0.4	< 0.4	***1.9 J***	***1.7 J***	< 0.4	< 0.4	< 0.2	< 0.2	< 0.40
1,2,3-Trichlorobenzene	NE	NE	< 13	< 20	< 13	< 0.25	< 2.5	< 10	< 0.72	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.24	< 0.24	< 0.48
1,2,4-Trichlorobenzene	14	70	< 13	< 20	< 13	< 0.25	< 2.5	< 10	< 0.44	< 0.62	< 0.62	< 0.62	< 0.62	< 0.62	< 0.62	< 0.31	< 0.31	< 0.62
1,3,5-Trimethylbenzene	96	480	23	< 16	< 10	13	13	< 8	< 0.46	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	0.71 J	< 0.18	< 0.36
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	0.5	5	***3900***	***3200***	***2900***	< 0.2	***2900***	***2100***	***1500***	***1300***	***1400***	***600***	***500***	***810***	***800***	***1000***	***840***	***650***
Bromodichloromethane	0.06	0.6	< 10	< 16	< 10	< 0.2	< 2	< 8	< 0.46	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.17	< 0.17	< 0.34
Bromoform	0.44	4.4	< 10	< 16	< 10	< 0.2	< 2	< 8	< 0.9	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.28	< 0.28	< 0.56
Bromomethane	1	10	< 25	< 40	< 25	< 0.5	< 5	< 20	< 0.98	< 0.62	< 0.62	< 0.62	< 0.62	< 0.62	< 0.62	< 0.31	< 0.31	< 0.62
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.5	5	< 40	< 64	< 40	< 0.8	< 8	< 32	< 0.56	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.26	< 0.26	< 0.52
Chloroform	0.6	6	< 10	< 16	< 10	< 0.2	< 2	< 8	***3.6***	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.2	< 0.2	< 0.40
Chloromethane	3	30	< 15	< 24	< 15	< 0.3	< 3	< 12	< 0.48	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.18	< 0.18	< 0.36
cis-1,2-Dichloroethene	7	70	< 25	< 40	< 25	1.4	< 5	< 20	< 0.44	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	0.89 J	< 0.12	2.8
Dichlorodifluoromethane	200	1000	< 25	< 40	< 25	< 0.5	< 5	< 20	< 0.52	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.2	< 0.2	< 0.40
Ethylbenzene	140	700	47	< 40	26	39	35	< 20	8.7	7.5	7.9	3.5	2.8	7.1	7.9	8.1	7.5	6.7
Isopropylbenzene	NE	NE	54	43	32	45	40	35	23	30	32	16	12	27	30	29	27	22
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	12	60	< 25	< 40	< 25	< 0.5	< 5	< 20	< 0.56	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.24	< 0.24	< 0.48
Methylene chloride	0.5	5	< 50	< 80	< 50	< 1	< 10	< 40	< 1.3	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 0.68	< 0.68	< 1.4
Naphthalene	10	100	***380***	***280***	***370***	***370***	***360***	***190***	***110***	***54***	***58***	3.9	2.8	***50***	***64***	***72***	***71***	***12***
n-Butylbenzene	NE	NE	12	< 16	< 10	10	7.9	< 8	< 0.42	< 0.26	< 0.26	< 0.26	< 0.26	5.0	6.3	< 0.13	4.3	< 0.26
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	NE	NE	49	< 40	27	36	31	21	11	13	14	5.4	3.6	12	13	14	13	9.2
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	NE	NE	< 10	< 16	< 10	6.5	5.1	< 8	2.6	3.8	3.9	1.7 J	1.2 J	3.2	3.6	3.4	< 0.17	2.7
sec-Butylbenzene	NE	NE	< 13	< 20	< 13	4.7	4.2	< 10	2.2	3.4	3.8	2.0	1.3 J	3.2	3.6	3.2	3.0	3.0
Styrene	10	100	< 25	< 40	< 25	3.5	***12***	< 20	< 0.52	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	1.0	< 0.1	< 0.20
tert-Butylbenzene	NE	NE	< 10	< 16	< 10	< 0.2	< 2	< 8	< 0.48	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.14	< 0.14	< 0.28
Tetrachloroethene	0.5	5	***36***	***45***	***27***	***30***	***26***	***28***	***20***	***25***	***26***	***22***	***17***	***23***	***25***	***17***	***16***	***10***
Toluene	160	800	130	100	88	120	120	58	36	30	31	9.4	7.8	24	27	38	35	25
trans-1,2-Dichloroethene	20	100	< 25	< 40	< 25	< 0.5	< 5	< 20	< 0.54	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.25	< 0.25	< 0.50
Trichloroethene	0.5	5	< 10	< 16	< 10	***4.5***	***4.5***	< 8	***3.9***	***11***	***11***	***13***	***11***	***12***	< 0.38	***18***	***17***	***24***
Trichlorofluoromethane	698	3490	< 85	< 160	< 100	< 2	< 20	< 80	< 0.44	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.19	< 0.19	< 2.0
Vinyl chloride	0.02	0.2	< 10	< 16	< 10	< 0.2	< 2	< 8	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.1	< 0.1	< 0.20
Xylenes, Total	400	2000	***630***	320	250	***450***	***400***	130	40	40	41	12	8.3	34	39	63	58	16
Total PCBs																		
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	< 0.17	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	< 0.094	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	< 0.13	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	< 0.11	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																		
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																		
Total Dissolved Solids (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-6D[3]	MW-6D	MW-6D[3]	MW-6D	MW-6D[3]	MW-6D	MW-6D[3]	MW-6D	MW-6D	MW-6D	MW-6D	MW-6D[3]	MW-6D	MW-6D[3]	MW-6D	MW-6D[3]	MW-6D	MW-6D	MW-6D	MW-6D	MW-6D[3]
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	04/17/2014	10/16/2014	10/16/2014	04/14/2015	04/14/2015	10/22/2015	10/22/2015	01/22/2016	04/20/2016	07/19/2016	10/12/2016	10/12/2016	1/20/2017	1/20/2017	04/11/2017	04/11/2017	10/09/2017	04/04/2018	10/15/2018	04/11/2019	04/11/2019
VOCs																							
1,1,1,2-Tetrachloroethane	7	70	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.46	< 0.92	< 2.2	< 5.5	< 1.1	< 5.5	< 5.5	< 11	< 5.5	< 11	< 1.1	< 5.5	< 0.11	< 5.5	< 6.7	< 6.7
1,1,1-Trichloroethane	40	200	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.38	< 0.76	< 2.0	< 5.0	< 1.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 1.0	< 5	< 0.10	< 5.0	< 6.1	< 6.1
1,1,2-Trichloroethane	0.5	5	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.35	< 0.70	< 2.0	< 5.0	< 1.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 1.0	< 5	< 0.10	< 5.0	< 13.8	< 13.8
1,1-Dichloroethene	0.7	7	< 0.62	< 0.62	< 0.62	< 0.62	< 0.62	< 0.39	< 0.78	< 2.8	< 7.0	< 1.4	< 7.0	< 7.0	< 14	< 7.0	< 14	< 1.4	< 7	< 0.14	< 7.0	< 6.1	< 6.1
1,2,4-Trimethylbenzene	96	480	8.9	13	13	4.0	4.2	6.9	6.6	9.0 J	15 J	57	***100***	***110***	***110 B***	***110***	***96***	***110***	***170***	***140***	90	57.0 J	56.3 J
1,2-Dibromoethane	0.005	0.05	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.39	< 0.77	< 2.6	< 6.5	< 1.3	< 6.5	< 6.5	< 13	< 6.5	< 13	< 1.3	< 6.5	< 0.13	< 6.5	< 20.7	< 20.7
1,2-Dichlorobenzene	60	600	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.33	< 0.67	< 1.5	< 3.8	< 0.76	< 3.8	< 3.8	< 7.6	< 3.8	< 7.6	< 0.76	< 3.8	< 0.076	< 3.8	< 17.6	< 17.6
1,2-Dichloropropane	0.5	5	***2.3***	***2.4***	< 0.40	***2.2***	< 0.40	< 0.43	< 0.86	< 2.0	< 5.0	< 1.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 1.0	< 5	< 0.10	< 5.0	< 7.1	< 7.1
1,2,3-Trichlorobenzene	NE	NE	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.46	< 0.92	< 0.90	< 2.3	< 0.45	< 2.3	< 2.3	< 4.5	< 2.3	< 4.5	< 0.45	< 2.3	< 0.045	< 2.3	< 15.6	< 15.6
1,2,4-Trichlorobenzene	14	70	< 0.62	< 0.62	< 0.62	< 0.62	< 0.62	< 0.34	< 0.68	< 1.5	< 3.9	< 0.77	< 3.9	< 3.9	< 7.7	< 3.9	< 7.7	< 0.77	< 3.9	< 0.077	< 3.9	< 23.8	< 23.8
1,3,5-Trimethylbenzene	96	480	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.25	< 0.51	< 1.5	< 3.8	< 0.75	< 3.8	< 3.8	< 7.5	< 3.8	< 7.5	< 0.75	< 3.8	2.1	< 3.8	< 21.8	< 21.8
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	< 60	< 150	< 30	< 150	< 150	< 300	< 150	< 300	< 30	< 150	< 3.0	< 150 J	< 73.4	< 73.4
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	< 19	< 48	< 9.5	< 48	< 48	< 95	< 48	< 95	< 9.5	< 48	< 0.95	< 48	< 61.4	< 61.4
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	< 15	< 39	< 7.7	< 39	< 39	< 77	< 39	< 77	< 7.7	< 39	< 0.77	< 39	< 38.3	< 38.3
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	< 68	< 170	< 34	< 170	< 170	< 340	< 170	< 340	< 34	< 170	20	< 170	119 J	197 J
Benzene	0.5	5	***710***	***990***	***980***	***790***	***700***	***660***	***560***	***610***	***810***	***1400***	***1600***	***1700***	***2100***	***2200***	***1700***	***1700***	***2000***	***2200***	***1500***	***1210***	***1280***
Bromodichloromethane	0.06	0.6	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.37	< 0.74	< 1.5	< 3.9	< 0.77	< 3.9	< 3.9	< 7.7	< 3.9	< 7.7	< 0.77	< 3.9	< 0.077	< 3.9	< 9.1	< 9.1
Bromoform	0.44	4.4	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.48	< 0.97	< 1.8	< 4.4	< 0.88	< 4.4	< 4.4	< 8.8	< 4.4	< 8.8	< 0.88	< 4.4	< 0.088	< 4.4	< 99.3	< 99.3
Bromomethane	1	10	< 0.62	< 0.62	< 0.62	< 0.62	< 0.62	< 0.80	< 1.6	< 12	< 30	< 5.9	< 30	< 30	< 59	< 30	< 59	< 5.9	< 30	< 0.59	< 30	< 24.3	< 24.3
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	< 1.1	< 2.7	< 0.53	8.5 J	< 2.7	< 5.3	< 2.7	< 5.3	< 0.53	< 2.7	< 0.053	< 2.7	< 9.4	< 9.4
Carbon tetrachloride	0.5	5	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.38	< 0.77	< 0.76	< 1.9	< 0.38	< 1.9	< 1.9	< 3.8	< 1.9	< 3.8	< 0.38	< 1.9	< 0.038	< 1.9	< 4.1	< 4.1
Chloroform	0.6	6	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.37	< 0.74	< 1.2	***5.5 BJ***	< 0.62	< 3.1	< 3.1	< 6.2	< 3.1	< 6.2	< 0.62	< 3.1	< 0.062	< 3.1	< 31.8	< 31.8
Chloromethane	3	30	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.32	< 0.64	< 3.2	< 8.0	< 1.6	***45 BJ***	***47 J***	***28 BJ***	***9.5 BJ***	< 16	< 1.6	***19 J***	< 0.16	< 14 U	< 54.7	< 54.7
cis-1,2-Dichloroethene	7	70	2.5	2.4	2.2	2.9	3.4	3.1	3.2	3.6 J	< 5.5	3.8 J	< 5.5	< 5.5	< 11	< 5.5	< 11 J	***7.3 J***	< 5.5	***8.3***	***8.5 J***	< 6.8	< 6.8
Dichlorodifluoromethane	200	1000	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.54	< 1.1	< 2.2	< 5.5	< 1.1	< 5.5	< 5.5	< 11	< 5.5	< 11	< 1.1	< 5.5	< 0.11	< 5.5	< 12.5	< 12.5
Ethylbenzene	140	700	6.3	8.0	7.2	3.3	3.5	4.7	4.5	4.0 J	6.0 J	11	18 J	20 J	21 J	20 J	23 J	22	36	47	34	32.0	38.1
Isopropylbenzene	NE	NE	21	24	20	13	13	17	16	5.8 J	22 J	31	31	28	29 BJ	31	33 J	34	33	30	17 J	15.3 J	16.8 J
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	8.2 J	22 J	98	140	130	110 B	110 B	73 J	80	140	55	53	44.2 J	43.4 J
Methyl tert-butyl ether	12	60	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.39	< 0.79	< 2.8	< 7.0	< 1.4	< 7.0	< 7.0	< 14	< 7.0	< 14	< 1.4	< 7	< 0.14	< 7.0 J	< 31.1	< 31.1
Methylene chloride	0.5	5	< 1.4	***76***	***61***	< 1.4	< 1.4	< 1.6	< 3.3	< 2.8	< 7.0	***51***	< 7.0	< 7.0	< 14	< 7.0	< 14	< 1.4	< 7	< 0.14	< 7.0 J+	< 14.5	< 14.5
Naphthalene	10	100	***10***	***18***	***15***	< 0.32	< 0.32	2.9	2.6	< 1.8	7.0 BJ	***67***	***110 J***	***110 J***	***140 BJ***	***140 J***	***81 J***	***110 J***	***140 BJ***	***65***	< 41 U	< 29.4	< 29.4
n-Butylbenzene	NE	NE	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.39	< 0.78	< 2.8	< 7.0	5.5	< 7.0	< 7.0	< 14	< 7.0	< 14 J	6.3 J	< 7	4.2	< 7.0	< 17.7	< 17.7
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	< 4.2	< 11	< 2.1	< 11	< 11	< 21	< 11	< 21	< 2.1	< 11	< 0.21	< 11	< 42.7	< 42.7
n-Propylbenzene	NE	NE	8.6	7.9	7.5	3.8	4.0	5.5	5.5	2.6 J	10 J	17	20 J	19 J	23 J	21 J	24 J	24	28	30	16 J	< 20.3	< 20.3
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	2.6 J	< 2.9	5.3	8.0 J	6.5 J	13 BJ	11 BJ	9.0 J	8.7	9.5 J	6.8	3.0 J	< 6.5	< 6.5
p-Isopropyltoluene	NE	NE	2.5	2.5	2.2	< 0.34	< 0.34	< 0.36	< 0.72	< 1.7	< 4.3	3.6 J	< 4.3	< 4.3	< 8.5	< 4.3	< 8.5	< 0.85	< 4.3	3.7	< 4.3	< 20.0	< 20.0
sec-Butylbenzene	NE	NE	2.8	2.8	2.3	< 0.30	< 0.30	2.3	2.3	< 2.6	< 6.5	3.4 J	< 6.5	< 6.5	< 13	< 6.5	< 13	< 1.3	< 6.5	3.8	< 6.5	< 21.2	< 21.2
Styrene	10	100	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.39	< 0.77	< 1.3	< 3.3	1.7 J	< 3.3	< 3.3	< 6.5	< 3.3	< 6.5	< 0.65	6 J	< 0.065	< 3.3	< 11.6	< 11.6
tert-Butylbenzene	NE	NE	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.40	< 0.80	< 2.4	< 6.0	< 1.2	< 6.0	< 6.0	< 12	< 6.0	< 12	< 1.2	< 6	0.35 J	< 6.0	< 7.6	< 7.6
Tetrachloroethene	0.5	5	***8.9***	***4***	***3.1***	< 0.34	< 0.34	***0.97 J***	***1.6 J***	***1.8 J***	< 4.1	***2.7 J***	***7.0 J***	***9.0 J***	< 8.1	< 4.1	< 8.1	***0.90 J***	***9 BJ***	***0.53***	< 4.1	< 8.2	< 8.2
Toluene	160	800	24	26	27	17	17	22	22	13	23 J	65	90	95	120 B	110 B	100	110	140	140	92	95.5 J	93.1 J
trans-1,2-Dichloroethene	20	100	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.35	< 0.70	< 2.2	< 5.5	< 1.1	< 5.5	< 5.5	< 11	< 5.5	< 11 J	1.8 J	< 5.5	3.3	< 5.5	< 27.3	< 27.3
Trichloroethene	0.5	5	***23***	***31***	***28***	***21***	***22***	***19***	***18***	***8.4 J***	***24 J***	***25***	***24 J***	***22 J***	***23 BJ***	***20 BJ***	***23 J***	***26***	***20 J***	***15***	***20 J***	***14.4 J***	***18.3 J***
Trichlorofluoromethane	698	3490	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 10	< 25	< 5.0	< 25	< 25	< 50	< 25	< 50	< 5.0	< 25	< 0.5	< 6.5	< 5.4	< 5.4
Vinyl chloride	0.02	0.2	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.41	< 3.2	< 8.0	< 1.6	< 8.0	< 8.0	< 16	< 8.0	< 16	< 1.6	< 8	< 0.16	< 8.0	< 4.4	< 4.4
Xylenes, Total	400	2000	15	25	24	8.6	9.1	16	16	10.8	22	103.3	148	136.5	120 BJ	120 B	82 J	89	150	62	56 J	44.2 J	43.4 J
Total PCBs																							
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0072	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0042	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.013	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.011	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA
Dissolved PCBs																							
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																							
Total Dissolved Solids (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1000	NA	NA
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13.4	NA	NA

Notes on Page 56.

Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-7	MW-7	MW-7	MW-7	MW-7	MW-7	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8	MW-9D	MW-9D	MW-9D[3]	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	24 - 35 ft	24 - 35 ft	24 - 35 ft	24 - 35 ft	24 - 35 ft	24 - 35 ft	24 - 34 ft	24 - 34 ft	24 - 34 ft	24 - 34 ft	24 - 34 ft	24 - 34 ft	44 - 49 ft	44 - 49 ft	44 - 49 ft	44 - 49 ft	44 - 49 ft	44 - 49 ft	44 - 49 ft	44 - 49 ft	44 - 49 ft	44 - 49 ft	44 - 49 ft	44 - 49 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	08/26/2011	04/10/2012	01/14/2013	04/16/2013	07/17/2013	10/03/2013	08/26/2011	04/10/2012	01/15/2013	04/16/2013	07/17/2013	10/03/2013	09/09/2011	04/11/2012	04/11/2012	01/15/2013	04/18/2013	07/18/2013	10/04/2013	04/16/2014	10/14/2014	04/09/2015	10/20/2015	10/13/2016	10/04/2017	10/11/2018
VOCs																										
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.31	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.31	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.31	< 0.31	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.46	< 0.11	< 0.11	< 0.11
1,1,1-Trichloroethane	40	200	< 0.5	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.5	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.5	< 0.26	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.38	< 0.10	< 0.1	< 0.10
1,1,2-Trichloroethane	0.5	5	< 0.25	< 0.3	< 0.28	< 0.28	< 0.28	< 0.28	< 0.25	< 0.3	< 0.28	< 0.28	< 0.28	< 0.28	< 0.25	< 0.3	< 0.3	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.35	< 0.10	< 0.1	< 0.10
1,1-Dichloroethene	0.7	7	< 0.5	< 0.29	< 0.31	< 0.31	< 0.31	< 0.31	< 0.5	< 0.29	< 0.31	< 0.31	< 0.31	< 0.31	< 0.5	< 0.29	< 0.29	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.39	< 0.14	< 0.14	< 0.14
1,2,4-Trimethylbenzene	96	480	< 0.2	< 0.22	< 0.14	< 0.14	< 0.14	< 0.14	< 0.2	< 0.22	< 0.14	< 0.14	< 0.14	< 0.14	< 0.2	< 0.22	< 0.22	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.36	< 0.060	< 0.06	< 0.060
1,2-Dibromoethane	0.005	0.05	< 0.2	< 0.45	< 0.36	< 0.36	< 0.36	< 0.36	< 0.2	< 0.45	< 0.36	< 0.36	< 0.36	< 0.36	< 0.2	< 0.45	< 0.45	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.39	< 0.13	< 0.13	< 0.13
1,2-Dichlorobenzene	60	600	< 0.2	< 0.21	< 0.27	< 0.27	< 0.27	< 0.27	< 0.2	< 0.21	< 0.27	< 0.27	< 0.27	< 0.27	< 0.2	< 0.21	< 0.21	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.33	< 0.076	< 0.076	< 0.076
1,2-Dichloropropane	0.5	5	< 0.5	< 0.36	< 0.2	< 0.2	< 0.2	< 0.2	< 0.5	< 0.36	< 0.2	< 0.2	< 0.2	< 0.2	< 0.5	< 0.36	< 0.36	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.43	< 0.10	< 0.1	< 0.10
1,2,3-Trichlorobenzene	NE	NE	< 0.25	< 0.36	< 0.24	< 0.24	< 0.24	< 0.24	< 0.25	< 0.36	< 0.24	< 0.24	< 0.24	< 0.24	< 0.25	< 0.36	< 0.36	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.045	< 0.045	< 0.045
1,2,4-Trichlorobenzene	14	70	< 0.25	< 0.22	< 0.31	< 0.31	< 0.31	< 0.31	< 0.25	< 0.22	< 0.31	< 0.31	< 0.31	< 0.31	< 0.25	< 0.22	< 0.22	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.34	< 0.077	< 0.077	< 0.077
1,3,5-Trimethylbenzene	96	480	< 0.2	< 0.23	< 0.18	< 0.18	< 0.18	< 0.18	< 0.2	< 0.23	< 0.18	< 0.18	< 0.18	< 0.18	< 0.2	< 0.23	< 0.23	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.25	< 0.075	< 0.075	< 0.075
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.0	< 3	< 3.0
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.95	< 0.95	< 0.95
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.77	< 0.77	< 0.77
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.4	17 BJ	< 10 U
Benzene	0.5	5	< 0.2	< 0.12	< 0.074	< 0.074	< 0.074	< 0.074	< 0.2	< 0.12	< 0.074	< 0.074	< 0.074	< 0.074	< 0.2	< 0.12	< 0.12	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.15	< 0.089	< 0.089	< 0.089
Bromodichloromethane	0.06	0.6	< 0.2	< 0.23	< 0.17	< 0.17	< 0.17	< 0.17	< 0.2	< 0.23	< 0.17	< 0.17	< 0.17	< 0.17	< 0.2	< 0.23	< 0.23	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.37	< 0.077	< 0.077	< 0.077
Bromoform	0.44	4.4	< 0.2	< 0.45	< 0.28	< 0.28	< 0.28	< 0.28	< 0.2	< 0.45	< 0.28	< 0.28	< 0.28	< 0.28	< 0.2	< 0.45	< 0.45	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.48	< 0.088	< 0.088	< 0.088
Bromomethane	1	10	< 0.5	< 0.49	< 0.31	< 0.31	< 0.31	< 0.31	< 0.5	< 0.49	< 0.31	< 0.31	< 0.31	< 0.31	< 0.5	< 0.49	< 0.49	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31 *	< 0.31	< 0.80	< 0.59	< 0.59	< 0.59
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.16 J	< 0.053	< 0.053
Carbon tetrachloride	0.5	5	< 0.8	< 0.28	< 0.26	< 0.26	< 0.26	< 0.26	< 0.8	< 0.28	< 0.26	< 0.26	< 0.26	< 0.26	< 0.8	< 0.28	< 0.28	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.38	< 0.038	0.09 J	< 0.038
Chloroform	0.6	6	< 0.2	< 0.25	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.25	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.25	< 0.25	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.37	< 0.062	< 0.062	< 0.062
Chloromethane	3	30	< 0.3	< 0.24	< 0.18	< 0.18	< 0.18	< 0.18	< 0.3	< 0.24	< 0.18	< 0.18	< 0.18	< 0.18	< 0.3	< 0.24	< 0.24	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.32	0.63 BJ	***4.7***	< 0.57 U
cis-1,2-Dichloroethene	7	70	< 0.5	< 0.22	< 0.12	< 0.12	< 0.12	< 0.12	< 0.5	< 0.22	< 0.12	< 0.12	< 0.12	< 0.12	< 0.5	< 0.22	< 0.22	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.41	< 0.11	< 0.11	< 0.11
Dichlorodifluoromethane	200	1000	< 0.5	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.5	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.5	< 0.26	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.54	< 0.11	< 0.11	0.13 J
Ethylbenzene	140	700	< 0.5	< 0.14	< 0.13	< 0.13	< 0.13	< 0.13	< 0.5	< 0.14	< 0.13	< 0.13	< 0.13	< 0.13	< 0.5	< 0.14	< 0.14	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.18	< 0.054	< 0.054	< 0.054
Isopropylbenzene	NE	NE	< 0.2	< 0.21	< 0.14	< 0.14	< 0.14	< 0.14	< 0.2	< 0.21	< 0.14	< 0.14	< 0.14	< 0.14	< 0.2	< 0.21	< 0.21	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.39	< 0.081	< 0.081	< 0.081
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.057	< 0.057	< 0.057
Methyl tert-butyl ether	12	60	< 0.5	< 0.28	< 0.24	< 0.24	< 0.24	< 0.24	< 0.5	< 0.28	< 0.24	< 0.24	< 0.24	< 0.24	< 0.5	< 0.28	< 0.28	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.39	< 0.14	< 0.14	< 0.14
Methylene chloride	0.5	5	< 1	< 0.63	< 0.68	< 0.68	< 0.68	< 0.68	< 1	< 0.63	< 0.68	< 0.68	< 0.68	< 0.68	< 1	***9***	< 0.63	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 1.6	< 0.14	< 0.14	< 0.56 U
Naphthalene	10	100	< 0.25	< 0.24	< 0.16	< 0.16	< 0.16	< 0.16	< 0.25	< 0.24	< 0.16	< 0.16	< 0.16	< 0.16	< 0.25	< 0.24	< 0.24	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.34	< 0.088	< 0.088	< 0.13 U
n-Butylbenzene	NE	NE	< 0.2	< 0.21	< 0.13	< 0.13	< 0.13	< 0.13	< 0.2	< 0.21	< 0.13	< 0.13	< 0.13	< 0.13	< 0.2	< 0.21	< 0.21	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.39	< 0.14	< 0.14	< 0.14
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	< 0.21	< 0.21
n-Propylbenzene	NE	NE	< 0.5	< 0.19	< 0.13	< 0.13	< 0.13	< 0.13	< 0.5	< 0.19	< 0.13	< 0.13	< 0.13	< 0.13	< 0.5	< 0.19	< 0.19	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.41	< 0.10	< 0.1	< 0.10
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.058	< 0.058	< 0.058
p-Isopropyltoluene	NE	NE	< 0.2	< 0.24	< 0.17	< 0.17	< 0.17	< 0.17	< 0.2	< 0.24	< 0.17	< 0.17	< 0.17	< 0.17	< 0.2	< 0.24	< 0.24	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.36	< 0.085	< 0.085	< 0.085
sec-Butylbenzene	NE	NE	< 0.25	< 0.19	< 0.15	< 0.15	< 0.15	< 0.15	< 0.25	< 0.19	< 0.15	< 0.15	< 0.15	< 0.15	< 0.25	< 0.19	< 0.19	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.40	< 0.13	< 0.13	< 0.13
Styrene	10	100	< 0.5	< 0.26	< 0.1	< 0.1	< 0.1	< 0.1	< 0.5	< 0.26	< 0.1	< 0.1	< 0.1	< 0.1	< 0.5	< 0.26	< 0.26	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.39	< 0.065	0.08 BJ	< 0.065
tert-Butylbenzene	NE	NE	< 0.2	< 0.24	< 0.14	< 0.14	< 0.14	< 0.14	< 0.2	< 0.24	< 0.14	< 0.14	< 0.14	< 0.14	< 0.2	< 0.24	< 0.24	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.40	< 0.12	< 0.12	< 0.12
Tetrachloroethene	0.5	5	< 0.5	< 0.22	< 0.17	< 0.17	< 0.17	< 0.17	< 0.5	< 0.22	< 0.17	< 0.17	< 0.17	< 0.17	< 0.5	< 0.22	< 0.22	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.37	0.20 J	< 0.081	< 0.081
Toluene	160	800	< 0.5	< 0.15	< 0.11	< 0.11	< 0.11	< 0.11	< 0.5	< 0.15	< 0.11	< 0.11	< 0.11	< 0.11	< 0.5	< 0.15	< 0.15	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.15	< 0.053	< 0.053	0.060 J
trans-1,2-Dichloroethene	20	100	< 0.5	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.5	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.5	< 0.27	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.35	< 0.11	< 0.11	< 0.11
Trichloroethene	0.5	5	< 0.2	< 0.18	< 0.19	< 0.19	< 0.19	< 0.19	< 0.2	< 0.18	< 0.19	< 0.19	< 0.19	< 0.19	< 0.2	< 0.18	< 0.18	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.16	< 0.062	< 0.062	< 0.062
Trichlorofluoromethane	698	3490	< 2	< 0.22	< 0.19	< 0.19	< 0.19	< 0.19	< 2	< 0.22	< 0.19	< 0.19	< 0.19	< 0.19	< 2	< 0.22	< 0.22	< 0.19	< 0.19	< 0.19	< 0.19	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 0.5	0.61
Vinyl chloride	0.02	0.2	< 0.2	< 0.13	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2	< 0.13	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2	< 0.13	< 0.13	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.20	< 0.16	< 0.16	< 0.16
Xylenes, Total	400	2000	< 0.5	< 0.3	< 0.068	< 0.068	< 0.068	< 0.068	< 0.5	< 0.3	< 0.068	< 0.068	< 0.068	< 0.068	< 0.5	< 0.3	< 0.3	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.22	< 0.058	< 0.12	< 0.12
Total PCBs																										
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																										
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																										
Total Dissolved Solids (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes on Page 56.

Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-9D2	MW-9D2	MW-9D2	MW-9D2	MW-9D2	MW-9D2	MW-9D2	MW-9D2	MW-9D2	MW-9D2	MW-9D2	MW-9D2	MW-9D2	MW-9D2	MW-9D2	MW-9D2	MW-9D2	MW-9D2	MW-9D2	MW-9D2[3]	MW-9D2
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	64 - 69 ft	64 - 69 ft	64 - 69 ft	64 - 69 ft	64 - 69 ft	64 - 69 ft	64 - 69 ft	64 - 69 ft	64 - 69 ft	64 - 69 ft	64 - 69 ft	64 - 69 ft	64 - 69 ft	64 - 69 ft	64 - 69 ft	64 - 69 ft	64 - 69 ft	64 - 69 ft	64 - 69 ft	64 - 69 ft	64 - 69 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	09/09/2011	04/11/2012	01/15/2013	04/18/2013	07/18/2013	10/04/2013	04/16/2014	10/14/2014	04/10/2015	10/20/2015	01/21/2016	04/20/2016	07/19/2016	10/13/2016	1/19/2017	04/12/2017	10/04/2017	04/05/2018	10/11/2018	10/11/2018	04/09/2019
VOCs																							
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.31	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.46	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.22	< 0.54
1,1,1-Trichloroethane	40	200	< 0.5	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.38	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	< 0.10	< 0.10	< 0.20	< 0.49
1,1,2-Trichloroethane	0.5	5	< 0.25	< 0.3	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.35	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	< 0.10	< 0.10	< 0.20	< 1.1
1,1-Dichloroethene	0.7	7	< 0.5	< 0.29	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.39	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.28	< 0.49
1,2,4-Trimethylbenzene	96	480	< 0.2	< 0.22	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.36	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.06	< 0.060	< 0.060	< 0.12	< 1.7
1,2-Dibromoethane	0.005	0.05	< 0.2	< 0.45	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.39	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.26	< 1.7
1,2-Dichlorobenzene	60	600	< 0.2	< 0.21	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.33	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.15	< 1.4
1,2-Dichloropropane	0.5	5	< 0.5	< 0.36	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.43	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	< 0.10	< 0.10	< 0.20	< 0.57
1,2,3-Trichlorobenzene	NE	NE	< 0.25	< 0.36	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.090	< 1.3
1,2,4-Trichlorobenzene	14	70	< 0.25	< 0.22	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.34	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.15	< 1.9
1,3,5-Trimethylbenzene	96	480	< 0.2	< 0.23	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.25	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.15	< 1.7
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3	< 3.0	< 3.0	< 6.0	< 5.9
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 1.9	< 4.9
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 1.5	< 3.1
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	6.4 BJ	< 3.4	< 6.7 U	< 6.8	< 5.5
Benzene	0.5	5	< 0.2	< 0.12	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.15	0.11 J	< 0.089	< 0.089	< 0.089	< 0.089	< 0.089	0.09 J	< 0.089	0.14 J	< 0.18	< 0.49
Bromodichloromethane	0.06	0.6	< 0.2	< 0.23	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.37	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.15	< 0.73
Bromoform	0.44	4.4	< 0.2	< 0.45	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.48	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.18	< 7.9
Bromomethane	1	10	< 0.5	< 0.49	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31 *	< 0.31	< 0.80	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 1.2	< 1.9
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.11	< 0.75
Carbon tetrachloride	0.5	5	< 0.8	< 0.28	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.38	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.076	< 0.33
Chloroform	0.6	6	< 0.2	< 0.25	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.37	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.12	< 2.5
Chloromethane	3	30	< 0.3	< 0.24	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.32	0.29 J	< 0.16	0.40 J	0.55 BJ	0.49 BJ	< 0.16	1.4 J+	< 0.16	< 0.58 U	< 0.32	< 4.4
cis-1,2-Dichloroethene	7	70	***12***	***11***	***14***	***16***	***16***	***18***	***19***	***24***	***26***	***32***	3.9	***34***	***31***	***35***	1.0 B	1.5	***32***	1.7	***53***	***54***	***64.1***
Dichlorodifluoromethane	200	1000	< 0.5	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.54	< 0.11	0.36 J	0.48 J	0.46 J	< 0.11	< 0.11	0.63	< 0.11	0.62	0.78 J	< 1.0
Ethylbenzene	140	700	< 0.5	< 0.14	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.18	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.11	< 0.44
Isopropylbenzene	NE	NE	< 0.2	< 0.21	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.39	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.16	< 0.79
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.11	< 0.93
Methyl tert-butyl ether	12	60	7.4	9.3	***20***	10	***12***	***15***	9.6	***12***	***17***	***24***	***18***	***21***	***28***	***29***	2.9 J+	2.4	***38***	< 0.14	***54***	***54***	***30***
Methylene chloride	0.5	5	< 1	***8.8***	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 1.6	0.17 J	< 0.14	< 0.14	< 0.14	***1.4 BJ***	< 0.14	< 0.14	< 0.14	< 0.29 U	< 0.28	< 1.2
Naphthalene	10	100	< 0.25	< 0.24	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.34	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.18	< 2.4
n-Butylbenzene	NE	NE	< 0.2	< 0.21	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.39	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.28	< 1.4
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.42	< 3.4
n-Propylbenzene	NE	NE	< 0.5	< 0.19	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.41	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	< 0.10	< 0.10	< 0.20	< 1.6
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.12	< 0.52
p-Isopropyltoluene	NE	NE	< 0.2	< 0.24	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.36	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.17	< 1.6
sec-Butylbenzene	NE	NE	< 0.25	< 0.19	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.40	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.26	< 1.7
Styrene	10	100	< 0.5	< 0.26	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.39	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	0.08 BJ	< 0.065	< 0.065	< 0.13	< 0.93
tert-Butylbenzene	NE	NE	< 0.2	< 0.24	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.40	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.24	< 0.61
Tetrachloroethene	0.5	5	***29***	***10***	***26***	***28***	***30***	***34***	***26***	***41***	***37***	***41***	***11***	***58***	***44***	***61***	***2.6 B***	***5.5***	***49***	***5.9***	***74***	***78***	***98.5***
Toluene	160	800	< 0.5	< 0.15	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.15	< 0.053	< 0.053	< 0.053	< 0.053	0.15 BJ	< 0.053	< 0.053	< 0.053	< 0.053	< 0.11	< 0.34
trans-1,2-Dichloroethene	20	100	< 0.5	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.35	< 0.11	0.61	0.58	0.64	< 0.11	< 0.11	0.65	0.14 J+	0.90	0.96 J	< 2.2
Trichloroethene	0.5	5	***5***	***3.8***	***5.5***	***6***	***6.3***	***7.4***	***6.5***	***9.6***	***9.5***	***11***	***2.8***	***13***	***13***	***16***	***0.95 B***	***1.7***	***14***	***1.6***	***19***	***21***	***25.8***
Trichlorofluoromethane	698	3490	< 2	< 0.22	< 0.19	< 0.19	< 0.19	< 0.19	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.5	< 0.5	< 0.13	< 0.26	< 0.43
Vinyl chloride	0.02	0.2	< 0.2	< 0.13	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.20	< 0.16	< 0.16	***0.17 J***	< 0.16	< 0.16	< 0.16	***0.59***	< 0.16	***1.4 J+***	***2.0 J+***	***1.7 J***
Xylenes, Total	400	2000	< 0.5	< 0.3	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.22	< 0.058	< 0.058	< 0.058	< 0.058	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.23	< 3.0
Total PCBs																							
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																							
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																							
Total Dissolved Solids (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes on Page 56.

Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-10S	MW-10S	MW-10S	MW-10S	MW-10S	MW-10S	MW-11S	MW-11S	MW-11S	MW-11S	MW-11S	MW-11S	MW-11S	MW-11S	MW-11S	MW-12S	MW-12S	MW-12S	MW-12S	MW-12S	MW-12S
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	11 - 21 ft	11 - 21 ft	11 - 21 ft	11 - 21 ft	11 - 21 ft	11 - 21 ft	24 - 34 ft	24 - 34 ft	24 - 34 ft	24 - 34 ft	24 - 34 ft	24 - 34 ft	24 - 34 ft	24 - 34 ft	24 - 34 ft	3 - 13 ft	3 - 13 ft	3 - 13 ft	3 - 13 ft	3 - 13 ft	3 - 13 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	04/10/2012	05/09/2012	01/15/2013	04/17/2013	07/17/2013	10/09/2013	04/12/2012	05/09/2012	01/15/2013	04/17/2013	07/18/2013	10/04/2013	10/09/2017	04/05/2018	10/16/2018	04/09/2019	04/12/2012	05/09/2012	01/16/2013	04/17/2013	07/18/2013	10/04/2013
VOCs																							
1,1,1,2-Tetrachloroethane	7	70	< 0.31	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.31	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	NA	NA	NA	NA	< 0.31	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,1,1-Trichloroethane	40	200	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	NA	NA	NA	NA	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-Trichloroethane	0.5	5	< 0.3	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.3	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	NA	NA	NA	NA	< 0.3	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
1,1-Dichloroethene	0.7	7	< 0.29	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.29	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	NA	NA	NA	NA	< 0.29	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
1,2,4-Trimethylbenzene	96	480	0.76 J	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	0.55 J	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	NA	NA	NA	NA	1.2	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
1,2-Dibromoethane	0.005	0.05	< 0.45	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.45	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	NA	NA	NA	NA	< 0.45	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
1,2-Dichlorobenzene	60	600	< 0.21	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.21	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	NA	NA	NA	NA	< 0.21	< 0.27	0.79 J	< 0.27	< 0.27	< 0.27
1,2-Dichloropropane	0.5	5	< 0.36	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.36	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	NA	NA	NA	NA	< 0.36	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2,3-Trichlorobenzene	NE	NE	< 0.36	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.36	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	NA	NA	NA	NA	< 0.36	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
1,2,4-Trichlorobenzene	14	70	< 0.22	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.22	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	NA	NA	NA	NA	< 0.22	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
1,3,5-Trimethylbenzene	96	480	< 0.23	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.23	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	NA	NA	NA	NA	< 0.23	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	0.5	5	< 0.12	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.12	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	NA	NA	NA	NA	< 0.12	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074
Bromodichloromethane	0.06	0.6	< 0.23	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.23	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	NA	NA	NA	NA	< 0.23	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Bromoform	0.44	4.4	< 0.45	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.45	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	NA	NA	NA	NA	< 0.45	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
Bromomethane	1	10	< 0.49	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.49	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	NA	NA	NA	NA	< 0.49	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.5	5	< 0.28	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.28	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	NA	NA	NA	NA	< 0.28	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
Chloroform	0.6	6	< 0.25	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.25	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	NA	NA	NA	NA	< 0.25	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chloromethane	3	30	< 0.24	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.24	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	NA	NA	NA	NA	< 0.24	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
cis-1,2-Dichloroethene	7	70	< 0.22	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.22	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	NA	NA	NA	NA	< 0.22	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Dichlorodifluoromethane	200	1000	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	NA	NA	NA	NA	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Ethylbenzene	140	700	0.20 J	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.14	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	NA	NA	NA	NA	< 0.14	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Isopropylbenzene	NE	NE	< 0.21	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.21	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	NA	NA	NA	NA	< 0.21	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	12	60	< 0.28	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.28	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	NA	NA	NA	NA	< 0.28	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Methylene chloride	0.5	5	< 0.63	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.63	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	NA	NA	NA	NA	< 0.63	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68
Naphthalene	10	100	< 0.24	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.24	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	NA	NA	NA	NA	< 0.24	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
n-Butylbenzene	NE	NE	< 0.21	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.21	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	NA	NA	NA	NA	< 0.21	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	NE	NE	< 0.19	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.19	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	NA	NA	NA	NA	< 0.19	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	NE	NE	< 0.24	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.24	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	NA	NA	NA	NA	< 0.24	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
sec-Butylbenzene	NE	NE	< 0.19	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.19	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	NA	NA	NA	NA	< 0.19	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Styrene	10	100	< 0.26	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.26	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	NA	NA	NA	NA	< 0.26	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
tert-Butylbenzene	NE	NE	< 0.24	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.24	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	NA	NA	NA	NA	< 0.24	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
Tetrachloroethene	0.5	5	< 0.22	< 0.17	***0.85 J***	< 0.17	< 0.17	< 0.17	< 0.22	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	NA	NA	NA	NA	***0.78 J***	***1.7***	***0.93 J***	< 0.17	***1.3***	***1.5***
Toluene	160	800	0.54	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	0.73	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	NA	NA	NA	NA	0.64	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
trans-1,2-Dichloroethene	20	100	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	NA	NA	NA	NA	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Trichloroethene	0.5	5	< 0.18	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.18	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	NA	NA	NA	NA	< 0.18	0.26 J	< 0.19	< 0.19	< 0.19	< 0.19
Trichlorofluoromethane	698	3490	< 0.22	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.22	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	NA	NA	NA	NA	< 0.22	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Vinyl chloride	0.02	0.2	< 0.13	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.13	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	NA	NA	NA	NA	< 0.13	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes, Total	400	2000	0.83 J	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	0.86 J	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	NA	NA	NA	NA	1.6	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068
Total PCBs																								
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.035	< 0.035	< 0.0072	< 0.0072	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.037	< 0.037	< 0.0042	< 0.0042	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.038	< 0.038	< 0.013	< 0.013	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.02	< 0.020	< 0.011	< 0.011	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
Dissolved PCBs																								
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																								
Total Dissolved Solids (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1960	1650	1810	1460	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.95	< 0.95	< 1.4	1.4 J	NA	NA	NA	NA	NA	NA

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Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	44 - 48 ft	44 - 48 ft	44 - 48 ft	44 - 48 ft	44 - 48 ft	44 - 48 ft	44 - 48 ft	44 - 48 ft	44 - 48 ft	44 - 48 ft	44 - 48 ft	44 - 48 ft	44 - 48 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	12/06/2012	01/19/2013	02/21/2013	04/17/2013	07/22/2013	10/07/2013	04/16/2014	10/14/2014	04/14/2015	10/16/2015	10/10/2016	10/03/2017	10/09/2018
VOCs															
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.25	< 0.25	< 0.5	< 0.25	< 0.25	< 0.50	< 0.50	< 0.50	< 0.46	< 1.1	< 0.44	< 0.11
1,1,1-Trichloroethane	40	200	< 0.2	< 0.2	< 0.2	< 0.4	< 0.2	< 0.2	< 0.40	< 0.40	< 0.40	< 0.38	< 1.0	< 0.4	< 0.10
1,1,2-Trichloroethane	0.5	5	< 0.28	< 0.28	< 0.28	< 0.56	< 0.28	< 0.28	< 0.56	< 0.56	< 0.56	< 0.35	< 1.0	< 0.4	< 0.10
1,1-Dichloroethene	0.7	7	***0.92 J***	***1.1***	***0.88 J***	< 0.62	***0.85 J***	***1.1***	***1.3 J***	< 0.62	***1.4 J***	***0.73 J***	< 1.4	< 0.56	< 0.14
1,2,4-Trimethylbenzene	96	480	< 0.14	< 0.14	< 0.14	< 0.28	< 0.14	< 0.14	< 0.28	< 0.28	< 0.28	< 0.36	< 0.60	< 0.24	< 0.060
1,2-Dibromoethane	0.005	0.05	< 0.36	< 0.36	< 0.36	< 0.72	< 0.36	< 0.36	< 0.72	< 0.72	< 0.72	< 0.39	< 1.3	< 0.52	< 0.13
1,2-Dichlorobenzene	60	600	< 0.27	< 0.27	< 0.27	< 0.54	< 0.27	< 0.27	< 0.54	< 0.54	< 0.54	< 0.33	< 0.76	< 0.3	< 0.076
1,2-Dichloropropane	0.5	5	< 0.2	< 0.2	< 0.2	< 0.4	< 0.2	< 0.2	< 0.40	< 0.40	< 0.40	< 0.43	< 1.0	< 0.4	< 0.10
1,2,3-Trichlorobenzene	NE	NE	< 0.24	< 0.24	< 0.24	< 0.48	< 0.24	< 0.24	< 0.48	< 0.48	< 0.48	< 0.46	< 0.45	< 0.18	< 0.045
1,2,4-Trichlorobenzene	14	70	< 0.31	< 0.31	< 0.31	< 0.62	< 0.31	< 0.31	< 0.62	< 0.62	< 0.62	< 0.34	< 0.77	< 0.31	< 0.077
1,3,5-Trimethylbenzene	96	480	< 0.18	< 0.18	< 0.18	< 0.36	< 0.18	< 0.18	< 0.36	< 0.36	< 0.36	< 0.25	< 0.75	< 0.3	< 0.075
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 30	< 12	< 3.0
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 9.5	< 3.8	< 0.95
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 7.7	< 3.1	< 0.77
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 34	< 14	< 4.7 U
Benzene	0.5	5	0.34 J	0.38 J	0.32 J	0.38 J	0.34 J	0.46 J	< 0.15	< 0.15	< 0.15	< 0.15	< 0.89	< 0.36	0.090 J
Bromodichloromethane	0.06	0.6	< 0.17	< 0.17	< 0.17	< 0.34	< 0.17	< 0.17	< 0.34	< 0.34	< 0.34	< 0.37	< 0.77	< 0.31	< 0.077
Bromoform	0.44	4.4	< 0.28	< 0.28	< 0.28	< 0.56	< 0.28	< 0.28	< 0.56	< 0.56	< 0.56	< 0.48	< 0.88	< 0.35	< 0.088
Bromomethane	1	10	< 0.31	< 0.31	< 0.31	< 0.62	< 0.31	< 0.31	< 0.62	< 0.62 *	< 0.62	< 0.80	< 5.9	< 2.4	< 0.59
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.53	< 0.21	< 0.053
Carbon tetrachloride	0.5	5	< 0.26	< 0.26	< 0.26	< 0.52	< 0.26	< 0.26	< 0.52	< 0.52	< 0.52	< 0.38	< 0.38	< 0.15	< 0.038
Chloroform	0.6	6	< 0.2	< 0.2	< 0.2	< 0.4	< 0.2	< 0.2	< 0.40	< 0.40	< 0.40	< 0.37	< 0.62	< 0.25	< 0.46 U
Chloromethane	3	30	< 0.18	< 0.18	< 0.18	< 0.36	< 0.18	< 0.18	< 0.36	< 0.36	< 0.36	< 0.32	***4.3 BJ***	< 0.64	< 0.16
cis-1,2-Dichloroethene	7	70	***540***	***450***	***460***	***460***	***430***	***480***	***450***	***440***	***360***	***220***	***97***	***50***	***26***
Dichlorodifluoromethane	200	1000	< 0.2	< 0.2	< 0.2	< 0.4	< 0.2	< 0.2	< 0.40	< 0.40	< 0.40	< 0.54	< 1.1	< 0.44	< 0.11
Ethylbenzene	140	700	< 0.13	< 0.13	< 0.13	< 0.26	< 0.13	< 0.13	< 0.26	< 0.26	< 0.26	< 0.18	< 0.54	< 0.22	< 0.054
Isopropylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.28	< 0.14	< 0.14	< 0.28	< 0.28	< 0.28	< 0.39	< 0.81	< 0.32	< 0.081
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.57	< 0.23	< 0.057
Methyl tert-butyl ether	12	60	< 0.24	< 0.24	< 0.24	< 0.48	< 0.24	< 0.24	< 0.48	< 0.48	< 0.48	< 0.39	< 1.4	< 0.56	< 0.14
Methylene chloride	0.5	5	< 0.68	< 0.68	< 0.68	< 1.4	< 0.68	< 0.68	< 1.4	< 1.4	< 1.4	< 1.6	< 1.4	< 0.56	< 0.43 U
Naphthalene	10	100	< 0.16	< 0.16	< 0.16	< 0.32	< 0.16	< 0.16	< 0.32	< 0.32	< 0.32	< 0.34	< 0.88	< 0.35	< 0.088
n-Butylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.26	< 0.13	< 0.13	< 0.26	< 0.26	< 0.26	< 0.39	< 1.4	< 0.56	< 0.14
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 2.1	< 0.84	< 0.21
n-Propylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.26	< 0.13	< 0.13	< 0.26	< 0.26	< 0.26	< 0.41	< 1.0	< 0.4	< 0.10
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.58	< 0.23	< 0.058
p-Isopropyltoluene	NE	NE	< 0.17	< 0.17	< 0.17	< 0.34	< 0.17	< 0.17	< 0.34	< 0.34	< 0.34	< 0.36	< 0.85	< 0.34	< 0.085
sec-Butylbenzene	NE	NE	< 0.15	< 0.15	< 0.15	< 0.3	< 0.15	< 0.15	< 0.30	< 0.30	< 0.30	< 0.40	< 1.3	< 0.52	< 0.13
Styrene	10	100	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 0.1	< 0.20	< 0.20	< 0.20	< 0.39	< 0.65	< 0.26	< 0.065
tert-Butylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.28	< 0.14	< 0.14	< 0.28	< 0.28	< 0.28	< 0.40	< 1.2	< 0.48	< 0.12
Tetrachloroethene	0.5	5	***640***	***760***	***630***	***680***	***720***	***800***	***750***	***750***	***580***	***360***	***240***	***160***	***140***
Toluene	160	800	< 0.11	< 0.11	< 0.11	< 0.22	< 0.11	< 0.11	< 0.22	< 0.22	< 0.22	< 0.15	< 0.53	< 0.21	< 0.053
trans-1,2-Dichloroethene	20	100	7.3	6.7	6.1	6.9	6.9	8.4	8.5	7.7	8.4	4.0	< 1.1	0.68 J	0.39 J
Trichloroethene	0.5	5	***230***	***200***	***220***	***230***	***220***	***290***	***300***	***260***	***320***	***170***	***93***	***59***	***45***
Trichlorofluoromethane	698	3490	< 0.19	< 0.19	< 0.19	< 0.38	< 0.19	< 0.19	< 2.0	< 2.0	< 2.0	< 1.0	< 5.0	< 2	< 0.13
Vinyl chloride	0.02	0.2	***15***	***17***	***17***	***13***	***13***	***17***	***14***	***16***	***16***	***8.6***	***3.7 J***	***1.5 J***	***0.47 J+***
Xylenes, Total	400	2000	< 0.068	< 0.068	< 0.068	< 0.14	< 0.068	< 0.068	< 0.14	< 0.14	< 0.14	< 0.22	< 0.58	< 0.46	< 0.12
Total PCBs															
Aroclor-1016	0.003	0.03	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	< 0.085	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	< 0.12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	< 0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs															
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids															
Total Dissolved Solids (mg/L)	NE	NE	1400	1400	1400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	67 - 71 ft	67 - 71 ft	67 - 71 ft	67 - 71 ft	67 - 71 ft	67 - 71 ft	67 - 71 ft	67 - 71 ft	67 - 71 ft	67 - 71 ft	67 - 71 ft	67 - 71 ft	67 - 71 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	12/06/2012	01/19/2013	02/21/2013	04/17/2013	07/22/2013	10/07/2013	04/16/2014	10/14/2014	04/14/2015	10/16/2015	10/10/2016	10/03/2017	10/09/2018
VOCs															
1,1,1,2-Tetrachloroethane	7	70	< 1.3	< 1.3	< 1.3	< 2.5	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 0.92	< 1.1	< 0.22	< 0.11
1,1,1-Trichloroethane	40	200	< 1	< 1	< 1	< 2	< 1	< 1	< 1.0	< 1.0	< 1.0	< 0.76	< 1.0	< 0.2	< 0.10
1,1,2-Trichloroethane	0.5	5	< 1.4	< 1.4	< 1.4	< 2.8	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 0.70	< 1.0	< 0.2	< 0.10
1,1-Dichloroethene	0.7	7	***2.8 J***	***3.1 J***	< 1.6	< 3.1	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 0.78	< 1.4	< 0.28	< 0.14
1,2,4-Trimethylbenzene	96	480	< 0.7	< 0.7	< 0.7	< 1.4	< 0.7	< 0.7	< 0.70	< 0.70	< 0.70	< 0.72	< 0.60	< 0.12	< 0.060
1,2-Dibromoethane	0.005	0.05	< 1.8	< 1.8	< 1.8	< 3.6	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 0.77	< 1.3	< 0.26	< 0.13
1,2-Dichlorobenzene	60	600	< 1.4	< 1.4	< 1.4	< 2.7	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 0.67	< 0.76	< 0.15	< 0.076
1,2-Dichloropropane	0.5	5	< 1	< 1	< 1	< 2	< 1	< 1	< 1.0	< 1.0	< 1.0	< 0.86	< 1.0	< 0.2	< 0.10
1,2,3-Trichlorobenzene	NE	NE	< 1.2	< 1.2	< 1.2	< 2.4	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 0.92	< 0.45	< 0.09	< 0.045
1,2,4-Trichlorobenzene	14	70	< 1.6	< 1.6	< 1.6	< 3.1	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 0.68	< 0.77	< 0.15	< 0.077
1,3,5-Trimethylbenzene	96	480	< 0.9	< 0.9	< 0.9	< 1.8	< 0.9	< 0.9	< 0.90	< 0.90	< 0.90	< 0.51	< 0.75	< 0.15	< 0.075
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 30	< 6	< 3.0
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 9.5	< 1.9	< 0.95
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 7.7	< 1.5	< 0.77
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 34	< 6.8	< 3.4
Benzene	0.5	5	< 0.37	***1.1 J***	< 0.37	< 0.74	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.29	< 0.89	< 0.18	< 0.089
Bromodichloromethane	0.06	0.6	< 0.85	< 0.85	< 0.85	< 1.7	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.74	< 0.77	< 0.15	< 0.077
Bromoform	0.44	4.4	< 1.4	< 1.4	< 1.4	< 2.8	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 0.97	< 0.88	< 0.18	< 0.088
Bromomethane	1	10	< 1.6	< 1.6	< 1.6	< 3.1	< 1.6	< 1.6	< 1.6	< 1.6 *	< 1.6	< 1.6	< 5.9	< 1.2	< 0.59
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.53	< 0.11	< 0.053
Carbon tetrachloride	0.5	5	< 1.3	< 1.3	< 1.3	< 2.6	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 0.77	< 0.38	< 0.076	< 0.038
Chloroform	0.6	6	< 1	< 1	< 1	< 2	< 1	< 1	< 1.0	< 1.0	< 1.0	< 0.74	< 0.62	0.18 J	< 0.65 U
Chloromethane	3	30	< 0.9	< 0.9	< 0.9	< 1.8	< 0.9	< 0.9	< 0.90	< 0.90	< 0.90	< 0.64	***4.7 BJ***	< 0.32	< 0.16
cis-1,2-Dichloroethene	7	70	***3500***	***3100***	***2900***	***3200***	***2300***	***1500***	***1300***	***810***	***710***	***470***	***89***	***24***	***14***
Dichlorodifluoromethane	200	1000	< 1	< 1	< 1	< 2	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.1	< 1.1	< 0.22	< 0.11
Ethylbenzene	140	700	< 0.65	< 0.65	< 0.65	< 1.3	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.37	< 0.54	< 0.11	< 0.054
Isopropylbenzene	NE	NE	< 0.7	< 0.7	< 0.7	< 1.4	< 0.7	< 0.7	< 0.70	< 0.70	< 0.70	< 0.77	< 0.81	< 0.16	< 0.081
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.57	< 0.11	< 0.057
Methyl tert-butyl ether	12	60	< 1.2	< 1.2	< 1.2	< 2.4	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 0.79	< 1.4	< 0.28	< 0.14
Methylene chloride	0.5	5	< 3.4	< 3.4	< 3.4	< 6.8	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.3	< 1.4	< 0.28	< 0.51 U
Naphthalene	10	100	< 0.8	< 0.8	< 0.8	< 1.6	< 0.8	< 0.8	< 0.80	< 0.80	< 0.80	< 0.67	< 0.88	< 0.18	< 0.088
n-Butylbenzene	NE	NE	< 0.65	< 0.65	< 0.65	< 1.3	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.78	< 1.4	< 0.28	< 0.14
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 2.1	< 0.42	< 0.21
n-Propylbenzene	NE	NE	< 0.65	< 0.65	< 0.65	< 1.3	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.83	< 1.0	< 0.2	< 0.10
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.58	< 0.12	< 0.058
p-Isopropyltoluene	NE	NE	< 0.85	< 0.85	< 0.85	< 1.7	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.72	< 0.85	< 0.17	< 0.085
sec-Butylbenzene	NE	NE	< 0.75	< 0.75	< 0.75	< 1.5	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.80	< 1.3	< 0.26	< 0.13
Styrene	10	100	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.50	< 0.50	< 0.50	< 0.77	< 0.65	< 0.13	< 0.065
tert-Butylbenzene	NE	NE	< 0.7	< 0.7	< 0.7	< 1.4	< 0.7	< 0.7	< 0.70	< 0.70	< 0.70	< 0.80	< 1.2	< 0.24	< 0.12
Tetrachloroethene	0.5	5	***3800***	***4300***	***2900***	***3800***	***2800***	***2000***	***1600***	***1600***	***1200***	***970***	***270***	***84***	***45***
Toluene	160	800	< 0.55	< 0.55	< 0.55	< 1.1	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.30	< 0.53	< 0.11	0.090 J
trans-1,2-Dichloroethene	20	100	***60***	***56***	***48***	***52***	***37***	***27***	***23***	12	11	< 0.70	< 1.1	0.48 J	0.26 J
Trichloroethene	0.5	5	***1100***	***1000***	***800***	***940***	***630***	***510***	***440***	***260***	***270***	***180***	***55***	***18***	***8.8***
Trichlorofluoromethane	698	3490	< 0.95	< 0.95	< 0.95	< 1.9	< 0.95	< 0.95	< 5.0	< 5.0	< 5.0	< 2.0	< 5.0	< 1	< 0.13
Vinyl chloride	0.02	0.2	***150***	***180***	***140***	***130***	***110***	***92***	***83***	***45***	***50***	< 0.41	***3.2 J***	***0.6 J***	***0.37 J+***
Xylenes, Total	400	2000	< 0.34	< 0.34	< 0.34	< 0.68	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.44	< 0.58	< 0.23	< 0.12
Total PCBs															
Aroclor-1016	0.003	0.03	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	< 0.085	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	< 0.12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	< 0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs															
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids															
Total Dissolved Solids (mg/L)	NE	NE	1100	1100	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MP-13	MP-13	MP-13	MP-13[3]	MP-13	MP-13[3]	MP-13	MP-13[3]	MP-13	MP-13[3]	MP-13	MP-13[3]	MP-13	MP-13[3]	MP-13	MP-13	MP-13[3]	MP-13	MP-13	MP-13	MP-13
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	81 - 85 ft	81 - 85 ft	81 - 85 ft	81 - 85 ft	81 - 85 ft	81 - 85 ft	81 - 85 ft	81 - 85 ft	81 - 85 ft	81 - 85 ft	81 - 85 ft	81 - 85 ft	81 - 85 ft	81 - 85 ft	81 - 85 ft	81 - 85 ft	81 - 85 ft	81 - 85 ft	81 - 85 ft	81 - 85 ft	81 - 85 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	12/06/2012	12/12/2012	01/19/2013	01/19/2013	02/21/2013	02/21/2013	04/17/2013	04/17/2013	07/22/2013	07/22/2013	10/07/2013	10/07/2013	04/16/2014	04/16/2014	10/14/2014	04/14/2015	04/14/2015	10/16/2015	10/16/2015	10/10/2016	10/03/2017	10/09/2018
VOCs																								
1,1,1,2-Tetrachloroethane	7	70	< 2.5	NA	4.8 J	4.1 J	4.5 J	4.8 J	< 5	< 2.5	< 2.5	< 2.5	< 1.3	< 1.3	< 2.5	< 5.0	< 2.5	< 2.5	< 2.5	< 9.2	< 9.2	< 22	< 11	< 5.5
1,1,1-Trichloroethane	40	200	< 2	NA	< 2	< 2	< 1	< 1	< 4	< 2	< 2	< 2	< 1	< 1	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 7.6	< 7.6	< 20	< 10	< 5.0
1,1,2-Trichloroethane	0.5	5	< 2.8	NA	< 2.8	< 2.8	< 1.4	< 1.4	< 5.6	< 2.8	< 2.8	< 2.8	< 1.4	< 1.4	< 2.8	< 5.6	< 2.8	< 2.8	< 2.8	< 7.0	< 7.0	< 20	< 10	< 5.0
1,1-Dichloroethene	0.7	7	< 3.1	NA	< 3.1	***4.2 J***	***4.2 J***	***3.5 J***	< 6.2	< 3.1	< 3.1	< 3.1	< 1.6	< 1.6	< 3.1	< 6.2	< 3.1	< 3.1	< 3.1	< 7.8	< 7.8	< 28	< 14	< 7.0
1,2,4-Trimethylbenzene	96	480	< 1.4	NA	< 1.4	< 1.4	< 0.7	< 0.7	< 2.8	< 1.4	< 1.4	< 1.4	< 0.7	< 0.7	< 1.4	< 2.8	< 1.4	< 1.4	< 1.4	< 7.2	< 7.2	< 12	< 6	< 3.0
1,2-Dibromoethane	0.005	0.05	< 3.6	NA	< 3.6	< 3.6	< 1.8	< 1.8	< 7.2	< 3.6	< 3.6	< 3.6	< 1.8	< 1.8	< 3.6	< 7.2	< 3.6	< 3.6	< 3.6	< 7.7	< 7.7	< 26	< 13	< 6.5
1,2-Dichlorobenzene	60	600	< 2.7	NA	< 2.7	< 2.7	< 1.4	< 1.4	< 5.4	< 2.7	< 2.7	< 2.7	< 1.4	< 1.4	< 2.7	< 5.4	< 2.7	< 2.7	< 2.7	< 6.7	< 6.7	< 15	< 7.6	< 3.8
1,2-Dichloropropane	0.5	5	< 2	NA	< 2	< 2	< 1	< 1	< 4	< 2	< 2	< 2	< 1	< 1	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 8.6	< 8.6	< 20	< 10	< 5.0
1,2,3-Trichlorobenzene	NE	NE	< 2.4	NA	< 2.4	< 2.4	< 1.2	< 1.2	< 4.8	< 2.4	< 2.4	< 2.4	< 1.2	< 1.2	< 2.4	< 4.8	< 2.4	< 2.4	< 2.4	< 9.2	< 9.2	< 9.0	< 4.5	< 2.3
1,2,4-Trichlorobenzene	14	70	< 3.1	NA	< 3.1	< 3.1	< 1.6	< 1.6	< 6.2	< 3.1	< 3.1	< 3.1	< 1.6	< 1.6	< 3.1	< 6.2	< 3.1	< 3.1	< 3.1	< 6.8	< 6.8	< 15	< 7.7	< 3.9
1,3,5-Trimethylbenzene	96	480	< 1.8	NA	< 1.8	< 1.8	< 0.9	< 0.9	< 3.6	< 1.8	< 1.8	< 1.8	< 0.9	< 0.9	< 1.8	< 3.6	< 1.8	< 1.8	< 1.8	< 5.1	< 5.1	< 15	< 7.5	< 3.8
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 600	< 300	< 150
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 190	< 95	< 48
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 150	< 77	< 39
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 680	500 J	< 170
Benzene	0.5	5	< 0.74	NA	< 0.74	< 0.74	< 0.37	< 0.37	< 1.5	< 0.74	< 0.74	< 0.74	< 0.37	< 0.37	< 0.74	< 1.5	< 0.74	< 0.74	< 0.74	< 2.9	< 2.9	< 18	< 8.9	< 4.5
Bromodichloromethane	0.06	0.6	< 1.7	NA	< 1.7	< 1.7	< 0.85	< 0.85	< 3.4	< 1.7	< 1.7	< 1.7	< 0.85	< 0.85	< 1.7	< 3.4	< 1.7	< 1.7	< 1.7	< 7.4	< 7.4	< 15	< 7.7	< 3.9
Bromoform	0.44	4.4	< 2.8	NA	< 2.8	< 2.8	< 1.4	< 1.4	< 5.6	< 2.8	< 2.8	< 2.8	< 1.4	< 1.4	< 2.8	< 5.6	< 2.8	< 2.8	< 2.8	< 9.7	< 9.7	< 18	< 8.8	< 4.4
Bromomethane	1	10	< 3.1	NA	< 3.1	< 3.1	< 1.6	< 1.6	< 6.2	< 3.1	< 3.1	< 3.1	< 1.6	< 1.6	< 3.1	< 6.2	< 3.1 *	< 3.1	< 3.1	< 16	< 16	< 120	< 59	< 30
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 11	< 5.3	< 2.7
Carbon tetrachloride	0.5	5	< 2.6	NA	< 2.6	< 2.6	< 1.3	< 1.3	< 5.2	< 2.6	< 2.6	< 2.6	< 1.3	< 1.3	< 2.6	< 5.2	< 2.6	< 2.6	< 2.6	< 7.7	< 7.7	< 7.6	< 3.8	< 1.9
Chloroform	0.6	6	< 2	NA	< 2	< 2	< 1	< 1	< 4	< 2	< 2	< 2	< 1	< 1	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 7.4	< 7.4	< 12	< 6.2	< 3.1
Chloromethane	3	30	< 1.8	NA	< 1.8	< 1.8	< 0.9	< 0.9	< 3.6	< 1.8	< 1.8	< 1.8	< 0.9	< 0.9	< 1.8	< 3.6	< 1.8	< 1.8	< 1.8	< 6.4	< 6.4	< 32	< 16	< 8.0
cis-1,2-Dichloroethene	7	70	***1900***	NA	***1800***	***1800***	***2100***	***2300***	***2700***	***2400***	***1700***	***1800***	***1200***	***1200***	***2200***	***2400***	***1700***	***1600***	***2000***	***1900***	***1800***	***930***	***670***	***240***
Dichlorodifluoromethane	200	1000	< 2	NA	< 2	< 2	< 1	< 1	< 4	< 2	< 2	< 2	< 1	< 1	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 11	< 11	< 22	< 11	< 5.5
Ethylbenzene	140	700	< 1.3	NA	< 1.3	< 1.3	< 0.65	< 0.65	< 2.6	< 1.3	< 1.3	< 1.3	< 0.65	< 0.65	< 1.3	< 2.6	< 1.3	< 1.3	< 1.3	< 3.7	< 3.7	< 11	< 5.4	< 2.7
Isopropylbenzene	NE	NE	< 1.4	NA	< 1.4	< 1.4	< 0.7	< 0.7	< 2.8	< 1.4	< 1.4	< 1.4	< 0.7	< 0.7	< 1.4	< 2.8	< 1.4	< 1.4	< 1.4	< 7.7	< 7.7	< 16	< 8.1	< 4.1
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 11	6 BJ	< 2.9
Methyl tert-butyl ether	12	60	< 2.4	NA	< 2.4	< 2.4	< 1.2	< 1.2	< 4.8	< 2.4	< 2.4	< 2.4	< 1.2	< 1.2	< 2.4	< 4.8	< 2.4	< 2.4	< 2.4	< 7.9	< 7.9	< 28	< 14	< 7.0
Methylene chloride	0.5	5	< 6.8	NA	< 6.8	< 6.8	< 3.4	< 3.4	< 14	< 6.8	< 6.8	< 6.8	< 3.4	< 3.4	< 6.8	< 14	< 6.8	< 6.8	< 6.8	< 33	< 33	< 28	< 14	< 7.0
Naphthalene	10	100	< 1.6	NA	< 1.6	< 1.6	< 0.8	< 0.8	< 3.2	< 1.6	< 1.6	< 1.6	< 0.8	< 0.8	< 1.6	< 3.2	< 1.6	< 1.6	< 1.6	< 6.7	< 6.7	< 18	< 8.8	< 4.4
n-Butylbenzene	NE	NE	< 1.3	NA	< 1.3	< 1.3	< 0.65	< 0.65	< 2.6	< 1.3	< 1.3	< 1.3	< 0.65	< 0.65	< 1.3	< 2.6	< 1.3	< 1.3	< 1.3	< 7.8	< 7.8	< 28	< 14	< 7.0
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 42	< 21	< 11
n-Propylbenzene	NE	NE	< 1.3	NA	< 1.3	< 1.3	< 0.65	< 0.65	< 2.6	< 1.3	< 1.3	< 1.3	< 0.65	< 0.65	< 1.3	< 2.6	< 1.3	< 1.3	< 1.3	< 8.3	< 8.3	< 20	< 10	< 5.0
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 12	< 5.8	< 2.9
p-Isopropyltoluene	NE	NE	< 1.7	NA	< 1.7	< 1.7	< 0.85	< 0.85	< 3.4	< 1.7	< 1.7	< 1.7	< 0.85	< 0.85	< 1.7	< 3.4	< 1.7	< 1.7	< 1.7	< 7.2	< 7.2	< 17	< 8.5	< 4.3
sec-Butylbenzene	NE	NE	< 1.5	NA	< 1.5	< 1.5	< 0.75	< 0.75	< 3	< 1.5	< 1.5	< 1.5	< 0.75	< 0.75	< 1.5	< 3.0	< 1.5	< 1.5	< 1.5	< 8.0	< 8.0	< 26	< 13	< 6.5
Styrene	10	100	< 1	NA	< 1	< 1	< 0.5	< 0.5	< 2	< 1	< 1	< 1	< 0.5	< 0.5	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 7.7	< 7.7	< 13	< 6.5	< 3.3
tert-Butylbenzene	NE	NE	< 1.4	NA	< 1.4	< 1.4	< 0.7	< 0.7	< 2.8	< 1.4	< 1.4	< 1.4	< 0.7	< 0.7	< 1.4	< 2.8	< 1.4	< 1.4	< 1.4	< 8.0	< 8.0	< 24	< 12	< 6.0
Tetrachloroethene	0.5	5	***5600***	NA	***6800***	***7400***	***7000***	***7100***	***7900***	***7000***	***6800***	***6300***	***5400***	***5200***	***7900***	***7800***	***8000***	***6700***	***11000***	***9700***	***9200***	***4800***	***3200***	***890***
Toluene	160	800	< 1.1	NA	< 1.1	< 1.1	< 0.55	< 0.55	< 2.2	< 1.1	< 1.1	< 1.1	< 0.55	< 0.55	< 1.1	< 2.2	< 1.1	< 1.1	< 1.1	< 3.0	< 3.0	< 11	< 5.3	< 2.7
trans-1,2-Dichloroethene	20	100	***29***	NA	***38***	***37***	***38***	***40***	***48***	***35***	***29***	***31***	19	19	***39***	***41***	***25***	***27***	***34***	< 7.0	< 7.0	< 22	12 J	< 5.5
Trichloroethene	0.5	5	***940***	NA	***1100***	***1000***	***1100***	***1000***	***1200***	***940***	***900***	***900***	***660***	***640***	***1100***	***1100***	***730***	***780***	***980***	***960***	***870***	***500***	***390***	***150***
Trichlorofluoromethane	698	3490	< 1.9	NA	< 1.9	< 1.9	< 0.95	< 0.95	< 3.8	< 1.9	< 1.9	< 1.9	< 0.95	< 0.95	< 10	< 20	< 10	< 10	< 10	< 20	< 20	< 100	< 50	< 6.5
Vinyl chloride	0.02	0.2	***64***	NA	***120***	***110***	***110***	***110***	***99***	***71***	***75***	***75***	***48***	***48***	***87***	***95***	***55***	***72***	***89***	***110***	***92***	***52 J***	***54***	***15 J+***
Xylenes, Total	400	2000	< 0.68	NA	< 0.68	< 0.68	< 0.34	< 0.34	< 1.4	< 0.68	< 0.68	< 0.68	< 0.34	< 0.34	< 0.68	< 1.4	< 0.68	< 0.68	< 0.68	< 4.4	< 4.4	< 12	< 12	< 5.8
Total PCBs																								
Aroclor-1016	0.003	0.03	< 0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	< 0.083	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	< 0.12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	< 0.099	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																								
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																								
Total Dissolved Solids (mg/L)	NE	NE	990	950	910	NA	980	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	102 - 106 ft	102 - 106 ft	102 - 106 ft	102 - 106 ft	102 - 106 ft	102 - 106 ft	102 - 106 ft	102 - 106 ft	102 - 106 ft	102 - 106 ft	102 - 106 ft	102 - 106 ft	102 - 106 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	12/04/2012	01/18/2013	02/21/2013	04/17/2013	07/22/2013	10/07/2013	04/16/2014	10/14/2014	04/14/2015	10/16/2015	10/10/2016	10/03/2017	10/09/2018
VOCs															
1,1,1,2-Tetrachloroethane	7	70	< 1.3	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 4.6	< 2.2	< 2.8	< 5.5
1,1,1-Trichloroethane	40	200	< 1	< 0.4	< 0.4	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 3.8	< 2.0	< 2.5	< 5.0
1,1,2-Trichloroethane	0.5	5	< 1.4	< 0.56	< 0.56	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 3.5	< 2.0	< 2.5	< 5.0
1,1-Dichloroethene	0.7	7	< 1.6	< 0.62	< 0.62	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 3.9	< 2.8	< 3.5	< 7.0
1,2,4-Trimethylbenzene	96	480	< 0.7	< 0.28	< 0.28	< 0.7	< 0.7	< 0.7	< 0.70	< 0.70	< 0.70	< 3.6	< 1.2	< 1.5	< 3.0
1,2-Dibromoethane	0.005	0.05	< 1.8	< 0.72	< 0.72	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 3.9	< 2.6	< 3.3	< 6.5
1,2-Dichlorobenzene	60	600	< 1.4	< 0.54	< 0.54	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 3.3	< 1.5	< 1.9	< 3.8
1,2-Dichloropropane	0.5	5	< 1	< 0.4	< 0.4	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 4.3	< 2.0	< 2.5	< 5.0
1,2,3-Trichlorobenzene	NE	NE	< 1.2	< 0.48	< 0.48	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 4.6	< 0.90	< 1.1	< 2.3
1,2,4-Trichlorobenzene	14	70	< 1.6	< 0.62	< 0.62	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 3.4	< 1.5	< 1.9	< 3.9
1,3,5-Trimethylbenzene	96	480	< 0.9	< 0.36	< 0.36	< 0.9	< 0.9	< 0.9	< 0.90	< 0.90	< 0.90	< 2.5	< 1.5	< 1.9	< 3.8
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 60	< 75	< 150
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 19	< 24	< 48
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 15	< 19	< 39
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 68	< 85	< 260 U
Benzene	0.5	5	< 0.37	< 0.15	< 0.15	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 1.5	< 1.8	< 2.2	< 4.5
Bromodichloromethane	0.06	0.6	< 0.85	< 0.34	< 0.34	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 3.7	< 1.5	< 1.9	< 3.9
Bromoform	0.44	4.4	< 1.4	< 0.56	< 0.56	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 4.8	< 1.8	< 2.2	< 4.4
Bromomethane	1	10	< 1.6	< 0.62	< 0.62	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6 *	< 1.6	< 8.0	< 12	< 15	***46 J+***
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.1	< 1.3	< 2.7
Carbon tetrachloride	0.5	5	< 1.3	< 0.52	< 0.52	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 3.8	< 0.76	< 0.95	< 1.9
Chloroform	0.6	6	< 1	< 0.4	< 0.4	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 3.7	< 1.2	< 1.6	< 3.1
Chloromethane	3	30	< 0.9	< 0.36	< 0.36	< 0.9	< 0.9	< 0.9	< 0.90	< 0.90	< 0.90	< 3.2	***9.8 BJ***	< 4	< 14 U
cis-1,2-Dichloroethene	7	70	***1100***	***690***	***520***	***720***	***660***	***600***	***770***	***730***	***980***	***1100***	***200***	***350***	***580***
Dichlorodifluoromethane	200	1000	< 1	< 0.4	< 0.4	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 5.4	< 2.2	< 2.8	< 5.5
Ethylbenzene	140	700	< 0.65	< 0.26	< 0.26	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 1.8	< 1.1	< 1.4	< 2.7
Isopropylbenzene	NE	NE	< 0.7	< 0.28	< 0.28	< 0.7	< 0.7	< 0.7	< 0.70	< 0.70	< 0.70	< 3.9	< 1.6	< 2	< 4.1
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.1	< 1.4	< 2.9
Methyl tert-butyl ether	12	60	< 1.2	< 0.48	< 0.48	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 3.9	< 2.8	< 3.5	< 7.0
Methylene chloride	0.5	5	< 3.4	< 1.4	< 1.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 16	< 2.8	< 3.5	< 7.0
Naphthalene	10	100	< 0.8	< 0.32	< 0.32	< 0.8	< 0.8	< 0.8	< 0.80	< 0.80	< 0.80	< 3.4	< 1.8	< 2.2	< 4.4
n-Butylbenzene	NE	NE	< 0.65	< 0.26	< 0.26	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 3.9	< 2.8	< 3.5	< 7.0
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4.2	< 5.3	< 11
n-Propylbenzene	NE	NE	< 0.65	< 0.26	< 0.26	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 4.1	< 2.0	< 2.5	< 5.0
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.2	< 1.5	< 2.9
p-Isopropyltoluene	NE	NE	< 0.85	< 0.34	< 0.34	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 3.6	< 1.7	< 2.1	< 4.3
sec-Butylbenzene	NE	NE	< 0.75	< 0.3	< 0.3	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 4.0	< 2.6	< 3.3	< 6.5
Styrene	10	100	< 0.5	< 0.2	< 0.2	< 0.5	< 0.5	< 0.5	< 0.50	< 0.50	< 0.50	< 3.9	< 1.3	1.8 BJ	< 3.3
tert-Butylbenzene	NE	NE	< 0.7	< 0.28	< 0.28	< 0.7	< 0.7	< 0.7	< 0.70	< 0.70	< 0.70	< 4.0	< 2.4	< 3	< 6.0
Tetrachloroethene	0.5	5	***1800***	***1100***	***670***	***1400***	***1500***	***1900***	***1600***	***2000***	***2100***	***4600***	***870***	***970***	***1200***
Toluene	160	800	< 0.55	< 0.22	< 0.22	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 1.5	< 1.1	< 1.3	< 2.7
trans-1,2-Dichloroethene	20	100	15	9.5	4.8	6.6	6.0	7.0	9.8	8.1	13	< 3.5	3.2 J	7.3 J	11 J
Trichloroethene	0.5	5	***440***	***330***	***270***	***500***	***450***	***490***	***580***	***530***	***680***	***930***	***230***	***230***	***290***
Trichlorofluoromethane	698	3490	< 0.95	< 0.38	< 0.38	< 0.95	< 0.95	< 0.95	< 5.0	< 5.0	< 5.0	< 10	< 10	< 13	< 6.5
Vinyl chloride	0.02	0.2	***33***	***23***	***13***	***20***	***19***	***20***	***23***	***22***	***41***	***44***	< 3.2	< 4	***9.0 J+***
Xylenes, Total	400	2000	< 0.34	< 0.14	< 0.14	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 2.2	< 1.2	< 2.9	< 5.8
Total PCBs															
Aroclor-1016	0.003	0.03	< 0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	< 0.083	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	< 0.12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	< 0.099	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs															
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids															
Total Dissolved Solids (mg/L)	NE	NE	1100	970	960	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MP-13	MP-13[3]	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	121 - 125 ft	121 - 125 ft	121 - 125 ft	121 - 125 ft	121 - 125 ft	121 - 125 ft	121 - 125 ft	121 - 125 ft	121 - 125 ft	121 - 125 ft	121 - 125 ft	121 - 125 ft	121 - 125 ft	121 - 125 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	12/04/2012	12/04/2012	01/18/2013	02/20/2013	04/17/2013	07/22/2013	10/07/2013	04/16/2014	10/14/2014	04/14/2015	10/16/2015	10/10/2016	10/03/2017	10/09/2018
VOCs																
1,1,1,2-Tetrachloroethane	7	70	< 0.5	< 1.3	< 1.3	NA	< 5	< 2.5	1.1	< 5.0	< 2.5	< 2.5	< 9.2	< 11	< 5.5	< 5.5
1,1,1-Trichloroethane	40	200	< 0.4	< 1	< 1	NA	< 4	< 2	< 0.2	< 4.0	< 2.0	< 2.0	< 7.6	< 10	< 5	< 5.0
1,1,2-Trichloroethane	0.5	5	< 0.56	< 1.4	< 1.4	NA	< 5.6	< 2.8	< 0.28	< 5.6	< 2.8	< 2.8	< 7.0	< 10	< 5	< 5.0
1,1-Dichloroethene	0.7	7	< 0.62	< 1.6	< 1.6	NA	< 6.2	< 3.1	< 0.31	< 6.2	< 3.1	< 3.1	< 7.8	< 14	< 7	< 7.0
1,2,4-Trimethylbenzene	96	480	< 0.28	< 0.7	< 0.7	NA	< 2.8	< 1.4	< 0.14	< 2.8	< 1.4	< 1.4	< 7.2	< 6.0	< 3	< 3.0
1,2-Dibromoethane	0.005	0.05	< 0.72	< 1.8	< 1.8	NA	< 7.2	< 3.6	< 0.36	< 7.2	< 3.6	< 3.6	< 7.7	< 13	< 6.5	< 6.5
1,2-Dichlorobenzene	60	600	< 0.54	< 1.4	< 1.4	NA	< 5.4	< 2.7	< 0.27	< 5.4	< 2.7	< 2.7	< 6.7	< 7.6	< 3.8	< 3.8
1,2-Dichloropropane	0.5	5	< 0.4	< 1	< 1	NA	< 4	< 2	< 0.2	< 4.0	< 2.0	< 2.0	< 8.6	< 10	< 5	< 5.0
1,2,3-Trichlorobenzene	NE	NE	< 0.48	< 1.2	< 1.2	NA	< 4.8	< 2.4	< 0.24	< 4.8	< 2.4	< 2.4	< 9.2	< 4.5	< 2.3	< 2.3
1,2,4-Trichlorobenzene	14	70	< 0.62	< 1.6	< 1.6	NA	< 6.2	< 3.1	< 0.31	< 6.2	< 3.1	< 3.1	< 6.8	< 7.7	< 3.9	< 3.9
1,3,5-Trimethylbenzene	96	480	< 0.36	< 0.9	< 0.9	NA	< 3.6	< 1.8	< 0.18	< 3.6	< 1.8	< 1.8	< 5.1	< 7.5	< 3.8	< 3.8
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 300	< 150	< 150
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 95	< 48	< 48
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 77	< 39	< 39
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 340	280 BJ	< 180 U
Benzene	0.5	5	< 0.15	< 0.37	< 0.37	NA	< 1.5	< 0.74	0.29 J	< 1.5	< 0.74	< 0.74	< 2.9	< 8.9	< 4.5	< 4.5
Bromodichloromethane	0.06	0.6	< 0.34	< 0.85	< 0.85	NA	< 3.4	< 1.7	< 0.17	< 3.4	< 1.7	< 1.7	< 7.4	< 7.7	< 3.9	< 3.9
Bromoform	0.44	4.4	< 0.56	< 1.4	< 1.4	NA	< 5.6	< 2.8	< 0.28	< 5.6	< 2.8	< 2.8	< 9.7	< 8.8	< 4.4	< 4.4
Bromomethane	1	10	< 0.62	< 1.6	< 1.6	NA	< 6.2	< 3.1	< 0.31	< 6.2	< 3.1 *	< 3.1	< 16	< 59	< 30	< 30
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5.3	< 2.7	< 2.7
Carbon tetrachloride	0.5	5	< 0.52	< 1.3	< 1.3	NA	< 5.2	< 2.6	< 0.26	< 5.2	< 2.6	< 2.6	< 7.7	< 3.8	< 1.9	< 1.9
Chloroform	0.6	6	< 0.4	< 1	< 1	NA	< 4	< 2	< 0.2	< 4.0	< 2.0	< 2.0	< 7.4	< 6.2	< 3.1	< 3.1
Chloromethane	3	30	< 0.36	< 0.9	< 0.9	NA	< 3.6	< 1.8	< 0.18	< 3.6	< 1.8	< 1.8	< 6.4	***49 BJ***	***9.5 J+***	< 13 U
cis-1,2-Dichloroethene	7	70	***910***	***970***	***1000***	NA	***930***	***760***	***650***	***720***	***630***	***690***	***820***	***200***	***240***	***67***
Dichlorodifluoromethane	200	1000	< 0.4	< 1	< 1	NA	< 4	< 2	< 0.2	< 4.0	< 2.0	< 2.0	< 11	< 11	< 5.5	< 5.5
Ethylbenzene	140	700	< 0.26	< 0.65	< 0.65	NA	< 2.6	< 1.3	< 0.13	< 2.6	< 1.3	< 1.3	< 3.7	< 5.4	< 2.7	< 2.7
Isopropylbenzene	NE	NE	< 0.28	< 0.7	< 0.7	NA	< 2.8	< 1.4	< 0.14	< 2.8	< 1.4	< 1.4	< 7.7	< 8.1	< 4.1	< 4.1
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5.7	3 BJ	< 2.9
Methyl tert-butyl ether	12	60	< 0.48	< 1.2	< 1.2	NA	< 4.8	< 2.4	< 0.24	< 4.8	< 2.4	< 2.4	< 7.9	< 14	< 7	< 7.0
Methylene chloride	0.5	5	< 1.4	< 3.4	< 3.4	NA	< 14	< 6.8	< 0.68	< 14	< 6.8	< 6.8	< 33	< 14	< 7	< 7.0
Naphthalene	10	100	< 0.32	< 0.8	< 0.8	NA	< 3.2	< 1.6	< 0.16	< 3.2	< 1.6	< 1.6	< 6.7	< 8.8	< 4.4	< 4.4
n-Butylbenzene	NE	NE	< 0.26	< 0.65	< 0.65	NA	< 2.6	< 1.3	< 0.13	< 2.6	< 1.3	< 1.3	< 7.8	< 14	< 7	< 7.0
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 21	< 11	< 11
n-Propylbenzene	NE	NE	< 0.26	< 0.65	< 0.65	NA	< 2.6	< 1.3	< 0.13	< 2.6	< 1.3	< 1.3	< 8.3	< 10	< 5	< 5.0
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5.8	< 2.9	< 2.9
p-Isopropyltoluene	NE	NE	< 0.34	< 0.85	< 0.85	NA	< 3.4	< 1.7	< 0.17	< 3.4	< 1.7	< 1.7	< 7.2	< 8.5	< 4.3	< 4.3
sec-Butylbenzene	NE	NE	< 0.3	< 0.75	< 0.75	NA	< 3	< 1.5	< 0.15	< 3.0	< 1.5	< 1.5	< 8.0	< 13	< 6.5	< 6.5
Styrene	10	100	< 0.2	< 0.5	< 0.5	NA	< 2	< 1	< 0.1	< 2.0	< 1.0	< 1.0	< 7.7	< 6.5	3.5 BJ	< 3.3
tert-Butylbenzene	NE	NE	< 0.28	< 0.7	< 0.7	NA	< 2.8	< 1.4	< 0.14	< 2.8	< 1.4	< 1.4	< 8.0	< 12	< 6	< 6.0
Tetrachloroethene	0.5	5	***1500***	***1500***	***2600***	NA	***7000***	***6300***	***6500***	***6700***	***4800***	***4300***	***12000***	***3100***	***3000***	***1000***
Toluene	160	800	< 0.22	< 0.55	< 0.55	NA	< 2.2	< 1.1	< 0.11	< 2.2	< 1.1	< 1.1	< 3.0	9.0 J	< 2.7	< 2.7
trans-1,2-Dichloroethene	20	100	12	15	17	NA	12 J	12	9.7	10 J	6.7 J	< 2.5	< 7.0	< 11	6 J	< 5.5
Trichloroethene	0.5	5	***340***	***370***	***460***	NA	***600***	***510***	***550***	***710***	***520***	***640***	***1100***	***450***	***460***	***110***
Trichlorofluoromethane	698	3490	< 0.38	< 0.95	< 0.95	NA	< 3.8	< 1.9	< 0.19	< 20	< 10	< 10	< 20	< 50	< 25	< 6.5
Vinyl chloride	0.02	0.2	***36***	***37***	***54***	NA	***13***	***9.3***	***8.1***	***6.2 J***	< 1.0	***11***	< 4.1	< 16	< 8	< 8.0
Xylenes, Total	400	2000	< 0.14	< 0.34	< 0.34	NA	< 1.4	< 0.68	< 0.068	< 1.4	< 0.68	< 0.68	< 4.4	< 5.8	< 5.8	< 5.8
Total PCBs																
Aroclor-1016	0.003	0.03	< 0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	< 0.084	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	< 0.12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	< 0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																
Total Dissolved Solids (mg/L)	NE	NE	1100	NA	1000	920	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	135 - 139 ft	135 - 139 ft	135 - 139 ft	135 - 139 ft	135 - 139 ft	135 - 139 ft	135 - 139 ft	135 - 139 ft	135 - 139 ft	135 - 139 ft	135 - 139 ft	135 - 139 ft	135 - 139 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	12/04/2012	01/17/2013	02/20/2013	04/17/2013	07/22/2013	10/07/2013	04/16/2014	10/14/2014	04/14/2015	10/16/2015	10/10/2016	10/03/2017	10/09/2018
VOCs															
1,1,1,2-Tetrachloroethane	7	70	< 0.5	< 1.3	NA	< 2.5	< 2.5	< 1.3	< 2.5	< 2.5	< 2.5	< 4.6	< 11	< 5.5	< 5.5
1,1,1-Trichloroethane	40	200	< 0.4	< 1	NA	< 2	< 2	< 1	< 2.0	< 2.0	< 2.0	< 3.8	< 10	< 5	< 5.0
1,1,2-Trichloroethane	0.5	5	< 0.56	< 1.4	NA	< 2.8	< 2.8	< 1.4	< 2.8	< 2.8	< 2.8	< 3.5	< 10	< 5	< 5.0
1,1-Dichloroethene	0.7	7	***1.5 J***	< 1.6	NA	< 3.1	< 3.1	< 1.6	< 3.1	< 3.1	< 3.1	< 3.9	< 14	< 7	< 7.0
1,2,4-Trimethylbenzene	96	480	< 0.28	< 0.7	NA	< 1.4	< 1.4	< 0.7	< 1.4	< 1.4	< 1.4	< 3.6	< 6.0	< 3	< 3.0
1,2-Dibromoethane	0.005	0.05	< 0.72	< 1.8	NA	< 3.6	< 3.6	< 1.8	< 3.6	< 3.6	< 3.6	< 3.9	< 13	< 6.5	< 6.5
1,2-Dichlorobenzene	60	600	< 0.54	< 1.4	NA	< 2.7	< 2.7	< 1.4	< 2.7	< 2.7	< 2.7	< 3.3	< 7.6	< 3.8	< 3.8
1,2-Dichloropropane	0.5	5	< 0.4	< 1	NA	< 2	< 2	< 1	< 2.0	< 2.0	< 2.0	< 4.3	< 10	< 5	< 5.0
1,2,3-Trichlorobenzene	NE	NE	< 0.48	< 1.2	NA	< 2.4	< 2.4	< 1.2	< 2.4	< 2.4	< 2.4	< 4.6	< 4.5	< 2.3	< 2.3
1,2,4-Trichlorobenzene	14	70	< 0.62	< 1.6	NA	< 3.1	< 3.1	< 1.6	< 3.1	< 3.1	< 3.1	< 3.4	< 7.7	< 3.9	< 3.9
1,3,5-Trimethylbenzene	96	480	< 0.36	< 0.9	NA	< 1.8	< 1.8	< 0.9	< 1.8	< 1.8	< 1.8	< 2.5	< 7.5	< 3.8	< 3.8
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 300	< 150	< 150
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 95	< 48	< 48
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 77	< 39	< 39
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 340	260 J	< 280 U
Benzene	0.5	5	0.41 J	***1.1 J***	NA	< 0.74	< 0.74	< 0.37	< 0.74	< 0.74	< 0.74	< 1.5	< 8.9	< 4.5	< 4.5
Bromodichloromethane	0.06	0.6	< 0.34	< 0.85	NA	< 1.7	< 1.7	< 0.85	< 1.7	< 1.7	< 1.7	< 3.7	< 7.7	< 3.9	< 3.9
Bromoform	0.44	4.4	< 0.56	< 1.4	NA	< 2.8	< 2.8	< 1.4	< 2.8	< 2.8	< 2.8	< 4.8	< 8.8	< 4.4	< 4.4
Bromomethane	1	10	< 0.62	< 1.6	NA	< 3.1	< 3.1	< 1.6	< 3.1	< 3.1 *	< 3.1	< 8.0	< 59	< 30	***56 J+***
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5.3	< 2.7	< 2.7
Carbon tetrachloride	0.5	5	< 0.52	< 1.3	NA	< 2.6	< 2.6	< 1.3	< 2.6	< 2.6	< 2.6	< 3.8	< 3.8	< 1.9	< 1.9
Chloroform	0.6	6	< 0.4	< 1	NA	< 2	< 2	< 1	< 2.0	< 2.0	< 2.0	< 3.7	< 6.2	< 3.1	< 3.1
Chloromethane	3	30	< 0.36	< 0.9	NA	< 1.8	< 1.8	< 0.9	< 1.8	< 1.8	< 1.8	< 3.2	***46 BJ***	***11 J+***	< 13 U
cis-1,2-Dichloroethene	7	70	***1100***	***910***	NA	***540***	***420***	***380***	***370***	***330***	***410***	***170***	***87***	***190***	***150***
Dichlorodifluoromethane	200	1000	< 0.4	< 1	NA	< 2	< 2	< 1	< 2.0	< 2.0	< 2.0	< 5.4	< 11	< 5.5	< 5.5
Ethylbenzene	140	700	< 0.26	< 0.65	NA	< 1.3	< 1.3	< 0.65	< 1.3	< 1.3	< 1.3	< 1.8	< 5.4	< 2.7	< 2.7
Isopropylbenzene	NE	NE	< 0.28	< 0.7	NA	< 1.4	< 1.4	< 0.7	< 1.4	< 1.4	< 1.4	< 3.9	< 8.1	< 4.1	< 4.1
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5.7	< 2.9	< 2.9
Methyl tert-butyl ether	12	60	< 0.48	< 1.2	NA	< 2.4	< 2.4	< 1.2	< 2.4	< 2.4	< 2.4	< 3.9	< 14	< 7	< 7.0
Methylene chloride	0.5	5	< 1.4	< 3.4	NA	< 6.8	< 6.8	< 3.4	< 6.8	< 6.8	< 6.8	< 16	< 14	< 7	< 7.0
Naphthalene	10	100	< 0.32	< 0.8	NA	< 1.6	< 1.6	< 0.8	< 1.6	< 1.6	< 1.6	< 3.4	< 8.8	< 4.4	< 4.4
n-Butylbenzene	NE	NE	< 0.26	< 0.65	NA	< 1.3	< 1.3	< 0.65	< 1.3	< 1.3	< 1.3	< 3.9	< 14	< 7	< 7.0
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 21	< 11	< 11
n-Propylbenzene	NE	NE	< 0.26	< 0.65	NA	< 1.3	< 1.3	< 0.65	< 1.3	< 1.3	< 1.3	< 4.1	< 10	< 5	< 5.0
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5.8	< 2.9	< 2.9
p-Isopropyltoluene	NE	NE	< 0.34	< 0.85	NA	< 1.7	< 1.7	< 0.85	< 1.7	< 1.7	< 1.7	< 3.6	< 8.5	< 4.3	< 4.3
sec-Butylbenzene	NE	NE	< 0.3	< 0.75	NA	< 1.5	< 1.5	< 0.75	< 1.5	< 1.5	< 1.5	< 4.0	< 13	< 6.5	< 6.5
Styrene	10	100	< 0.2	< 0.5	NA	< 1	< 1	< 0.5	< 1.0	< 1.0	< 1.0	< 3.9	< 6.5	3.5 BJ	< 3.3
tert-Butylbenzene	NE	NE	< 0.28	< 0.7	NA	< 1.4	< 1.4	< 0.7	< 1.4	< 1.4	< 1.4	< 4.0	< 12	< 6	< 6.0
Tetrachloroethene	0.5	5	***1900***	***2300***	NA	***3800***	***4200***	***6500***	***5200***	***6300***	***5700***	***5500***	***2000***	***4100***	***3800***
Toluene	160	800	< 0.22	< 0.55	NA	< 1.1	< 1.1	< 0.55	< 1.1	< 1.1	< 1.1	< 1.5	8.0 J	< 2.7	< 2.7
trans-1,2-Dichloroethene	20	100	17	15	NA	8.5 J	5.4 J	< 1.3	< 2.5	< 2.5	< 2.5	< 3.5	< 11	< 5.5	< 5.5
Trichloroethene	0.5	5	***450***	***430***	NA	***310***	***260***	***310***	***320***	***270***	***370***	***210***	***100***	***250***	***250***
Trichlorofluoromethane	698	3490	< 0.38	< 0.95	NA	< 1.9	< 1.9	< 0.95	< 10	< 10	< 10	< 10	< 50	< 25	< 6.5
Vinyl chloride	0.02	0.2	***50***	***42***	NA	***11***	***8.1***	***5.8***	***4.0 J***	***3.7 J***	***4.4 J***	< 2.0	< 16	< 8	< 8.0
Xylenes, Total	400	2000	< 0.14	< 0.34	NA	< 0.68	< 0.68	< 0.34	< 0.68	< 0.68	< 0.68	< 2.2	< 5.8	< 5.8	< 5.8
Total PCBs															
Aroclor-1016	0.003	0.03	< 0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	< 0.083	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	< 0.12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	< 0.099	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs															
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids															
Total Dissolved Solids (mg/L)	NE	NE	1100	960	890	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	163 - 167 ft	163 - 167 ft	163 - 167 ft	163 - 167 ft	163 - 167 ft	163 - 167 ft	163 - 167 ft	163 - 167 ft	163 - 167 ft	163 - 167 ft	163 - 167 ft	163 - 167 ft	163 - 167 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	12/04/2012	01/16/2013	02/20/2013	04/17/2013	07/22/2013	10/07/2013	04/16/2014	10/14/2014	04/14/2015	10/16/2015	10/10/2016	10/03/2017	10/09/2018
VOCs															
1,1,1,2-Tetrachloroethane	7	70	< 1.3	< 0.25	NA	< 0.5	< 0.25	< 0.25	< 0.50	< 0.50	< 0.25	< 0.46	< 0.22	< 0.11	< 0.22
1,1,1-Trichloroethane	40	200	< 1	< 0.2	NA	< 0.4	< 0.2	< 0.2	< 0.40	< 0.40	< 0.20	< 0.38	< 0.20	< 0.1	< 0.20
1,1,2-Trichloroethane	0.5	5	< 1.4	< 0.28	NA	< 0.56	< 0.28	< 0.28	< 0.56	< 0.56	< 0.28	< 0.35	< 0.20	< 0.1	< 0.20
1,1-Dichloroethene	0.7	7	< 1.6	***0.97 J***	NA	< 0.62	< 0.31	< 0.31	< 0.62	< 0.62	< 0.31	< 0.39	< 0.28	< 0.14	< 0.28
1,2,4-Trimethylbenzene	96	480	< 0.7	< 0.14	NA	< 0.28	< 0.14	< 0.14	< 0.28	< 0.28	< 0.14	< 0.36	< 0.12	< 0.06	< 0.12
1,2-Dibromoethane	0.005	0.05	< 1.8	< 0.36	NA	< 0.72	< 0.36	< 0.36	< 0.72	< 0.72	< 0.36	< 0.39	< 0.26	< 0.13	< 0.26
1,2-Dichlorobenzene	60	600	< 1.4	< 0.27	NA	< 0.54	< 0.27	< 0.27	< 0.54	< 0.54	< 0.27	< 0.33	< 0.15	< 0.076	< 0.15
1,2-Dichloropropane	0.5	5	< 1	< 0.2	NA	< 0.4	< 0.2	< 0.2	< 0.40	< 0.40	< 0.20	< 0.43	< 0.20	< 0.1	< 0.20
1,2,3-Trichlorobenzene	NE	NE	< 1.2	< 0.24	NA	< 0.48	< 0.24	< 0.24	< 0.48	< 0.48	< 0.24	< 0.46	< 0.090	< 0.045	< 0.090
1,2,4-Trichlorobenzene	14	70	< 1.6	< 0.31	NA	< 0.62	< 0.31	< 0.31	< 0.62	< 0.62	< 0.31	< 0.34	< 0.15	< 0.077	< 0.15
1,3,5-Trimethylbenzene	96	480	< 0.9	< 0.18	NA	< 0.36	< 0.18	< 0.18	< 0.36	< 0.36	< 0.18	< 0.25	< 0.15	< 0.075	< 0.15
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 6.0	< 3	< 6.0
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.9	< 0.95	< 1.9
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.5	< 0.77	< 1.5
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 6.8	5.2 BJ	< 6.8
Benzene	0.5	5	< 0.37	< 0.074	NA	< 0.15	< 0.074	< 0.074	< 0.15	< 0.15	< 0.074	< 0.15	< 0.18	< 0.089	< 0.18
Bromodichloromethane	0.06	0.6	< 0.85	< 0.17	NA	< 0.34	< 0.17	< 0.17	< 0.34	< 0.34	< 0.17	< 0.37	< 0.15	< 0.077	< 0.15
Bromoform	0.44	4.4	< 1.4	< 0.28	NA	< 0.56	< 0.28	< 0.28	< 0.56	< 0.56	< 0.28	< 0.48	< 0.18	< 0.088	< 0.18
Bromomethane	1	10	< 1.6	< 0.31	NA	< 0.62	< 0.31	< 0.31	< 0.62	< 0.62 *	< 0.31	< 0.80	< 1.2	< 0.59	< 1.2
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.11	< 0.053	< 0.11
Carbon tetrachloride	0.5	5	< 1.3	< 0.26	NA	< 0.52	< 0.26	< 0.26	< 0.52	< 0.52	< 0.26	< 0.38	< 0.076	< 0.038	< 0.076
Chloroform	0.6	6	< 1	< 0.2	NA	< 0.4	< 0.2	< 0.2	< 0.40	< 0.40	< 0.20	< 0.37	< 0.12	< 0.062	< 0.12
Chloromethane	3	30	< 0.9	< 0.18	NA	< 0.36	< 0.18	< 0.18	< 0.36	< 0.36	< 0.18	< 0.32	0.76 BJ	0.46 J+	< 0.32
cis-1,2-Dichloroethene	7	70	***970***	***730***	NA	***460***	***200***	***170***	***180***	***160***	***150***	***33***	3.8	3.6	5.8
Dichlorodifluoromethane	200	1000	< 1	< 0.2	NA	< 0.4	< 0.2	< 0.2	< 0.40	< 0.40	< 0.20	< 0.54	< 0.22	< 0.11	< 0.22
Ethylbenzene	140	700	< 0.65	< 0.13	NA	< 0.26	< 0.13	< 0.13	< 0.26	< 0.26	< 0.13	< 0.18	< 0.11	< 0.054	< 0.11
Isopropylbenzene	NE	NE	< 0.7	< 0.14	NA	< 0.28	< 0.14	< 0.14	< 0.28	< 0.28	< 0.14	< 0.39	< 0.16	< 0.081	< 0.16
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.11	< 0.057	< 0.11
Methyl tert-butyl ether	12	60	< 1.2	< 0.24	NA	< 0.48	< 0.24	< 0.24	< 0.48	< 0.48	< 0.24	< 0.39	< 0.28	< 0.14	< 0.28
Methylene chloride	0.5	5	< 3.4	< 0.68	NA	< 1.4	< 0.68	< 0.68	< 1.4	< 1.4	< 0.68	< 1.6	< 0.28	< 0.14	< 0.28
Naphthalene	10	100	< 0.8	< 0.16	NA	< 0.32	< 0.16	< 0.16	< 0.32	< 0.32	< 0.16	< 0.34	< 0.18	< 0.088	< 0.18
n-Butylbenzene	NE	NE	< 0.65	< 0.13	NA	< 0.26	< 0.13	< 0.13	< 0.26	< 0.26	< 0.13	< 0.39	< 0.28	< 0.14	< 0.28
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.42	< 0.21	< 0.42
n-Propylbenzene	NE	NE	< 0.65	< 0.13	NA	< 0.26	< 0.13	< 0.13	< 0.26	< 0.26	< 0.13	< 0.41	< 0.20	< 0.1	< 0.20
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.12	< 0.058	< 0.12
p-Isopropyltoluene	NE	NE	< 0.85	< 0.17	NA	< 0.34	< 0.17	< 0.17	< 0.34	< 0.34	< 0.17	< 0.36	< 0.17	< 0.085	< 0.17
sec-Butylbenzene	NE	NE	< 0.75	< 0.15	NA	< 0.3	< 0.15	< 0.15	< 0.30	< 0.30	< 0.15	< 0.40	< 0.26	< 0.13	< 0.26
Styrene	10	100	< 0.5	< 0.1	NA	< 0.2	< 0.1	< 0.1	< 0.20	< 0.20	< 0.10	< 0.39	< 0.13	< 0.065	< 0.13
tert-Butylbenzene	NE	NE	< 0.7	< 0.14	NA	< 0.28	< 0.14	< 0.14	< 0.28	< 0.28	< 0.14	< 0.40	< 0.24	< 0.12	< 0.24
Tetrachloroethene	0.5	5	***1400***	***930***	NA	***840***	***510***	***680***	***870***	***930***	***910***	***350***	***43***	***45***	***60***
Toluene	160	800	< 0.55	< 0.11	NA	< 0.22	< 0.11	< 0.11	< 0.22	< 0.22	< 0.11	< 0.15	< 0.11	0.08 BJ	< 0.11
trans-1,2-Dichloroethene	20	100	15	13	NA	7.5	3.3	2.6	3.3	1.9 J	1.9	< 0.35	< 0.22	< 0.11	< 0.22
Trichloroethene	0.5	5	***370***	***250***	NA	***200***	***92***	***96***	***110***	***100***	***99***	***33***	***4.8***	***4.4***	***4.9***
Trichlorofluoromethane	698	3490	< 0.95	< 0.19	NA	< 0.38	< 0.19	< 0.19	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 0.5	< 0.26
Vinyl chloride	0.02	0.2	***41***	***27***	NA	***6.8***	***0.74***	***0.72***	***0.56 J***	< 0.20	***1.1***	< 0.20	< 0.32	< 0.16	< 0.32
Xylenes, Total	400	2000	< 0.34	< 0.068	NA	< 0.14	< 0.068	< 0.068	< 0.14	< 0.14	< 0.068	< 0.22	< 0.12	< 0.12	< 0.23
Total PCBs															
Aroclor-1016	0.003	0.03	< 0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	< 0.083	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	< 0.12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	< 0.098	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs															
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids															
Total Dissolved Solids (mg/L)	NE	NE	1100	850	890	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MP-14	MP-14	MP-14	MP-14	MP-14	MP-14	MP-14	MP-14	MP-14	MP-14	MP-14	MP-14	MP-14	MP-14	MP-14	MP-14	MP-14	MP-14	MP-14
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	70 - 75 ft	70 - 75 ft	70 - 75 ft	70 - 75 ft	70 - 75 ft	70 - 75 ft	70 - 75 ft	100 - 105 ft	100 - 105 ft	100 - 105 ft	100 - 105 ft	100 - 105 ft	100 - 105 ft	100 - 105 ft	100 - 105 ft	100 - 105 ft	100 - 105 ft	100 - 105 ft	100 - 105 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	01/21/2013	04/16/2013	07/16/2013	07/22/2013	10/08/2013	04/14/2014	10/17/2014	01/21/2013	04/16/2013	07/16/2013	07/22/2013	10/08/2013	04/14/2014	10/17/2014	04/13/2015	10/15/2015	10/11/2016	10/02/2017	10/09/2018
VOCs																					
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.46	< 0.11	< 0.11	< 0.11
1,1,1-Trichloroethane	40	200	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.38	< 0.10	< 0.1	< 0.10
1,1,2-Trichloroethane	0.5	5	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.35	< 0.10	< 0.1	< 0.10
1,1-Dichloroethene	0.7	7	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.39	< 0.14	< 0.14	< 0.14
1,2,4-Trimethylbenzene	96	480	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.36	< 0.060	< 0.06	< 0.060
1,2-Dibromoethane	0.005	0.05	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.39	< 0.13	< 0.13	< 0.13
1,2-Dichlorobenzene	60	600	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.33	< 0.076	< 0.076	< 0.076
1,2-Dichloropropane	0.5	5	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.43	< 0.10	< 0.1	< 0.10
1,2,3-Trichlorobenzene	NE	NE	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.045	< 0.045	< 0.045
1,2,4-Trichlorobenzene	14	70	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.34	< 0.077	< 0.077	< 0.077
1,3,5-Trimethylbenzene	96	480	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.25	< 0.075	< 0.075	< 0.075
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.0	< 3	< 3.0
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.95	< 0.95	< 0.95
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.77	< 0.77	< 0.77
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.4	8.4 BJ	< 3.4
Benzene	0.5	5	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.15	< 0.089	< 0.089	< 0.089
Bromodichloromethane	0.06	0.6	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.37	< 0.077	< 0.077	< 0.077
Bromoform	0.44	4.4	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.48	< 0.088	< 0.088	< 0.088
Bromomethane	1	10	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31 *	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31 *	< 0.31	< 0.80	< 0.59	< 0.59	< 0.59
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.053	< 0.053	< 0.053
Carbon tetrachloride	0.5	5	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.38	< 0.038	< 0.038	< 0.038
Chloroform	0.6	6	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.37	< 0.062	< 0.062	< 0.062
Chloromethane	3	30	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.32	< 0.16	1.3 J	< 0.60 U
cis-1,2-Dichloroethene	7	70	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.41	< 0.11	< 0.11	< 0.11
Dichlorodifluoromethane	200	1000	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.2	< 0.2	< 0.2	0.72 J	< 0.2	< 0.20	< 0.20	< 0.20	< 0.54	< 0.11	< 0.11	< 0.11
Ethylbenzene	140	700	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.18	< 0.054	< 0.054	< 0.054
Isopropylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.39	< 0.081	< 0.081	< 0.081
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.057	< 0.057	< 0.057
Methyl tert-butyl ether	12	60	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24 *	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24 *	< 0.24	< 0.39	< 0.14	< 0.14	< 0.14
Methylene chloride	0.5	5	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 1.6	< 0.14	< 0.14	< 0.44 U
Naphthalene	10	100	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.34	< 0.088	< 0.088	< 0.20 U
n-Butylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.39	< 0.14	< 0.14	< 0.14
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	< 0.21	< 0.21
n-Propylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.41	< 0.10	< 0.1	< 0.10
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.058	< 0.058	< 0.058
p-Isopropyltoluene	NE	NE	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.36	< 0.085	< 0.085	< 0.085
sec-Butylbenzene	NE	NE	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.40	< 0.13	< 0.13	< 0.13
Styrene	10	100	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.39	< 0.065	0.07 BJ	< 0.065
tert-Butylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.40	< 0.12	< 0.12	< 0.12
Tetrachloroethene	0.5	5	***0.71 J***	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	***1.5***	< 0.17	< 0.17	< 0.17	***1.7***	< 0.17	***1***	< 0.17	< 0.37	***0.54***	0.45 J-	0.47 J
Toluene	160	800	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.15	0.10 J	< 0.053	0.060 J
trans-1,2-Dichloroethene	20	100	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.35	< 0.11	< 0.11	< 0.11
Trichloroethene	0.5	5	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.16	< 0.062	< 0.062	< 0.062
Trichlorofluoromethane	698	3490	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.0	< 1.0	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 0.5	< 0.13
Vinyl chloride	0.02	0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.20	< 0.16	< 0.16	< 0.16
Xylenes, Total	400	2000	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.22	< 0.058	< 0.12	< 0.12
Total PCBs																					
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																					
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																					
Total Dissolved Solids (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes on Page 56.

Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MP-14	MP-14	MP-14	MP-14	MP-14	MP-14	MP-14	MP-14	MP-14	MP-14	MP-14	MP-14	MP-14	MP-14	MP-14	MP-14	MP-14	MP-14 (135-140)
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	135 - 140 ft	135 - 140 ft	135 - 140 ft	135 - 140 ft	135 - 140 ft	135 - 140 ft	135 - 140 ft	135 - 140 ft	135 - 140 ft	135 - 140 ft	135 - 140 ft	135 - 140 ft	135 - 140 ft	135 - 140 ft	135 - 140 ft	135 - 140 ft	135 - 140 ft	135 - 140 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	01/21/2013	04/16/2013	07/16/2013	07/22/2013	10/08/2013	04/14/2014	10/17/2014	04/13/2015	10/15/2015	01/20/2016	04/19/2016	07/18/2016	10/11/2016	1/18/2017	04/10/2017	10/02/2017	04/02/2018	10/09/2018	04/08/2019
VOCs																					
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.25	< 0.5	< 0.25	< 0.5	< 0.25	< 0.25	< 0.25	< 0.46	< 1.1	< 2.2	< 0.11	< 1.1	< 1.1	< 0.11	< 1.1	< 0.11	< 1.1	< 1.1
1,1,1-Trichloroethane	40	200	< 0.2	< 0.2	< 0.4	< 0.2	< 0.4	< 0.20	< 0.20	< 0.20	< 0.38	< 1.0	< 2.0	< 0.10	< 1.0	< 1.0	< 0.10	< 1	< 0.10	< 1.0	< 0.98
1,1,2-Trichloroethane	0.5	5	< 0.28	< 0.28	< 0.56	< 0.28	< 0.56	< 0.28	< 0.28	< 0.28	< 0.35	< 1.0	< 2.0	< 0.10	< 1.0	< 1.0	< 0.10	< 1	< 0.10	< 1.0	< 2.2
1,1-Dichloroethene	0.7	7	< 0.31	< 0.31	< 0.62	< 0.31	< 0.62	< 0.31	< 0.31	< 0.31	< 0.39	< 1.4	< 2.8	< 0.14	< 1.4	< 1.4	< 0.14	< 1.4	< 0.14	< 1.4	< 0.98
1,2,4-Trimethylbenzene	96	480	< 0.14	< 0.14	< 0.28	< 0.14	< 0.28	< 0.14	< 0.14	< 0.14	< 0.36	< 0.60	< 1.2	< 0.060	< 0.60	< 0.60	< 0.060	< 0.6	< 0.060	< 0.60	< 3.4
1,2-Dibromoethane	0.005	0.05	< 0.36	< 0.36	< 0.72	< 0.36	< 0.72	< 0.36	< 0.36	< 0.36	< 0.39	< 1.3	< 2.6	< 0.13	< 1.3	< 1.3	< 0.13	< 1.3	< 0.13	< 1.3	< 3.3
1,2-Dichlorobenzene	60	600	< 0.27	< 0.27	< 0.54	< 0.27	< 0.54	< 0.27	< 0.27	< 0.27	< 0.33	< 0.76	< 1.5	< 0.076	< 0.76	< 0.76	< 0.076	< 0.76	< 0.076	< 0.76	< 2.8
1,2-Dichloropropane	0.5	5	< 0.2	< 0.2	< 0.4	< 0.2	< 0.4	< 0.20	< 0.20	< 0.20	< 0.43	< 1.0	< 2.0	< 0.10	< 1.0	< 1.0	< 0.10	< 1	< 0.10	< 1.0	< 1.1
1,2,3-Trichlorobenzene	NE	NE	< 0.24	< 0.24	< 0.48	< 0.24	< 0.48	< 0.24	< 0.24	< 0.24	< 0.46	< 0.45	3.4 BJ	< 0.045	< 0.45	< 0.45	< 0.045	< 0.45	< 0.045	< 0.45	< 2.5
1,2,4-Trichlorobenzene	14	70	< 0.31	< 0.31	< 0.62	< 0.31	< 0.62	< 0.31	< 0.31	< 0.31	< 0.34	< 0.77	2.4 J	< 0.077	< 0.77	< 0.77	< 0.077	< 0.77	< 0.077	< 0.77	< 3.8
1,3,5-Trimethylbenzene	96	480	< 0.18	< 0.18	< 0.36	< 0.18	< 0.36	< 0.18	< 0.18	< 0.18	< 0.25	< 0.75	< 1.5	< 0.075	< 0.75	< 0.75	< 0.075	< 0.75	< 0.075	< 0.75	< 3.5
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 30	< 60	< 3.0	< 30	< 30	< 3.0	< 30	< 3.0	< 30	< 11.7
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 9.5	< 19	< 0.95	< 9.5	< 9.5	< 0.95	< 9.5	< 0.95	< 9.5	< 9.8
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 7.7	< 15	< 0.77	< 7.7	< 7.7	< 0.77	< 7.7	< 0.77	< 7.7	< 6.1
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 34	< 68	< 3.4	< 34	< 34	< 3.4	< 34	< 3.4	< 34	< 11.0
Benzene	0.5	5	< 0.074	< 0.074	< 0.15	< 0.074	< 0.15	< 0.074	< 0.074	< 0.074	< 0.15	< 0.89	< 1.8	< 0.089	< 0.89	< 0.89	< 0.089	< 0.89	< 0.089	< 0.89	< 0.99
Bromodichloromethane	0.06	0.6	< 0.17	< 0.17	< 0.34	< 0.17	< 0.34	< 0.17	< 0.17	< 0.17	< 0.37	< 0.77	< 1.5	< 0.077	< 0.77	***0.80 BJ***	< 0.077	< 0.77	< 0.077	< 0.77	< 1.5
Bromoform	0.44	4.4	< 0.28	< 0.28	< 0.56	< 0.28	< 0.56	< 0.28	< 0.28	< 0.28	< 0.48	< 0.88	< 1.8	< 0.088	< 0.88	< 0.88	< 0.088	< 0.88	< 0.088	< 0.88	< 15.9
Bromomethane	1	10	< 0.31	< 0.31	< 0.62	< 0.31	< 0.62	< 0.31	< 0.31 *	< 0.31	< 0.80	< 5.9	< 12	< 0.59	< 5.9	< 5.9	< 0.59	< 5.9	< 0.59	< 5.9	< 3.9
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.53	< 1.1	< 0.053	3.3 J	< 0.53	< 0.053	< 0.53	0.080 J	< 0.53	< 1.5
Carbon tetrachloride	0.5	5	< 0.26	< 0.26	< 0.52	< 0.26	< 0.52	< 0.26	< 0.26	< 0.26	< 0.38	< 0.38	< 0.76	< 0.038	< 0.38	< 0.38	< 0.038	< 0.38	< 0.038	< 0.38	< 0.66
Chloroform	0.6	6	< 0.2	< 0.2	< 0.4	< 0.2	< 0.4	< 0.20	< 0.20	< 0.20	< 0.37	< 0.62	< 1.2	< 0.062	< 0.62	< 0.62	< 0.062	< 0.62	0.10 J+	< 0.62	< 5.1
Chloromethane	3	30	< 0.18	< 0.18	< 0.36	< 0.18	< 0.36	< 0.18	< 0.18	< 0.18	< 0.32	< 1.6	< 3.2	0.16 J	***12 BJ***	< 1.6	< 0.16	***3.4 J+***	< 0.16	< 3.3 U	< 8.8
cis-1,2-Dichloroethene	7	70	< 0.12	***17***	***27***	***29***	***27***	***12***	***8.1***	4.3	***13***	***12***	***16***	***13***	***13***	***12 B***	***12***	***11***	***17***	***17***	***15.6***
Dichlorodifluoromethane	200	1000	< 0.2	< 0.2	< 0.4	< 0.2	< 0.4	< 0.20	< 0.20	< 0.20	< 0.54	< 1.1	< 2.2	0.11 J	< 1.1	< 1.1	< 0.11	< 1.1	0.21 J+	< 1.1	< 2.0
Ethylbenzene	140	700	< 0.13	< 0.13	< 0.26	< 0.13	< 0.26	< 0.13	< 0.13	< 0.13	< 0.18	< 0.54	< 1.1	< 0.054	< 0.54	< 0.54	< 0.054	< 0.54	< 0.054	< 0.54	< 0.87
Isopropylbenzene	NE	NE	< 0.14	< 0.14	< 0.28	< 0.14	< 0.28	< 0.14	< 0.14	< 0.14	< 0.39	< 0.81	< 1.6	< 0.081	< 0.81	< 0.81	< 0.081	< 0.81	< 0.081	< 0.81	< 1.6
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.57	< 1.1	< 0.057	< 0.57	< 0.57	< 0.057	< 0.57	< 0.057	< 0.57	< 1.9
Methyl tert-butyl ether	12	60	< 0.24	< 0.24	< 0.48	< 0.24	< 0.48	< 0.24	< 0.24 *	< 0.24	< 0.39	< 1.4	< 2.8	< 0.14	< 1.4	< 1.4	< 0.14	< 1.4	< 0.14	< 1.4	< 5.0
Methylene chloride	0.5	5	< 0.68	< 0.68	< 1.4	< 0.68	< 1.4	< 0.68	< 0.68	< 0.68	< 1.6	< 1.4	< 2.8	< 0.14	< 1.4	< 1.4	< 0.14	< 1.4	< 0.14	< 1.4	< 2.3
Naphthalene	10	100	< 0.16	< 0.16	< 0.32	< 0.16	< 0.32	< 0.16	< 0.16	< 0.16	< 0.34	< 0.88	6.8 BJ	< 0.088	< 0.88	< 0.88	< 0.088	< 0.88	< 0.088	< 0.88	< 4.7
n-Butylbenzene	NE	NE	< 0.13	< 0.13	< 0.26	< 0.13	< 0.26	< 0.13	< 0.13	< 0.13	< 0.39	< 1.4	< 2.8	< 0.14	< 1.4	< 1.4	< 0.14	< 1.4	< 0.14	< 1.4	< 2.8
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 2.1	< 4.2	< 0.21	< 2.1	< 2.1	< 0.21	< 2.1	< 0.21	< 2.1	< 6.8
n-Propylbenzene	NE	NE	< 0.13	< 0.13	< 0.26	< 0.13	< 0.26	< 0.13	< 0.13	< 0.13	< 0.41	< 1.0	< 2.0	< 0.10	< 1.0	< 1.0	< 0.10	< 1	< 0.10	< 1.0	< 3.2
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.58	< 1.2	< 0.058	< 0.58	< 0.58	< 0.058	< 0.58	< 0.058	< 0.58	< 1.0
p-Isopropyltoluene	NE	NE	< 0.17	< 0.17	< 0.34	< 0.17	< 0.34	< 0.17	< 0.17	< 0.17	< 0.36	< 0.85	< 1.7	< 0.085	< 0.85	< 0.85	< 0.085	< 0.85	< 0.085	< 0.85	< 3.2
sec-Butylbenzene	NE	NE	< 0.15	< 0.15	< 0.3	< 0.15	< 0.3	< 0.15	< 0.15	< 0.15	< 0.40	< 1.3	< 2.6	< 0.13	< 1.3	< 1.3	< 0.13	< 1.3	< 0.13	< 1.3	< 3.4
Styrene	10	100	< 0.1	< 0.1	< 0.2	< 0.1	< 0.2	< 0.10	< 0.10	< 0.10	< 0.39	< 0.65	< 1.3	< 0.065	< 0.65	< 0.65	< 0.065	< 0.65	< 0.065	< 0.65	< 1.9
tert-Butylbenzene	NE	NE	< 0.14	< 0.14	< 0.28	< 0.14	< 0.28	< 0.14	< 0.14	< 0.14	< 0.40	< 1.2	< 2.4	< 0.12	< 1.2	< 1.2	< 0.12	< 1.2	< 0.12	< 1.2	< 1.2
Tetrachloroethene	0.5	5	***1.7***	***430***	***820***	***920***	***970***	***350***	***190***	***110***	***320***	***290***	***310***	***230***	***250***	***230***	***270***	***250***	***370***	***370***	***408***
Toluene	160	800	< 0.11	< 0.11	< 0.22	< 0.11	< 0.22	< 0.11	< 0.11	< 0.11	< 0.15	< 0.53	< 1.1	< 0.053	1.4 J	1.5 BJ	< 0.053	< 0.53	< 0.053	< 0.53	< 0.69
trans-1,2-Dichloroethene	20	100	< 0.25	< 0.25	< 0.5	< 0.25	< 0.5	< 0.25	< 0.25	< 0.25	< 0.35	< 1.1	< 2.2	0.24 J	< 1.1	< 1.1	0.18 J	< 1.1	0.39 J+	< 1.1	< 4.4
Trichloroethene	0.5	5	0.24 J	***31***	***53***	***51***	***53***	***23***	***16***	***7.9***	***25***	***24***	***28***	***24***	***25***	***21***	***25***	***20***	***31***	***29***	***31***
Trichlorofluoromethane	698	3490	< 0.19	< 0.19	< 0.38	< 0.19	< 0.38	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 10	< 0.50	< 5.0	< 5.0	< 0.50	< 5	< 0.5	< 1.3	< 0.86
Vinyl chloride	0.02	0.2	< 0.1	< 0.1	< 0.2	< 0.1	***0.53 J***	< 0.10	< 0.10	< 0.10	< 0.20	< 1.6	< 3.2	< 0.16	< 1.6	< 1.6	< 0.16	< 1.6	< 0.16	< 1.6	< 0.70
Xylenes, Total	400	2000	< 0.068	< 0.068	< 0.14	< 0.068	< 0.14	< 0.068	< 0.068	< 0.068	< 0.22	< 0.58	< 1.2	< 0.058	< 0.58	< 1.2	< 0.12	< 1.2	< 0.12	< 1.2	< 6.0
Total PCBs																					
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																					
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																					
Total Dissolved Solids (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes on Page 56.

Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MP-14	MP-14	MP-14	MP-14	MP-14	MP-14	MP-14	MP-14	MP-14	MP-14	MP-14	MP-14	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	170 - 178 ft	170 - 178 ft	170 - 178 ft	170 - 178 ft	170 - 178 ft	170 - 178 ft	170 - 178 ft	170 - 178 ft	170 - 178 ft	170 - 178 ft	170 - 178 ft	170 - 178 ft	88 - 92 ft	88 - 92 ft	88 - 92 ft	88 - 92 ft	88 - 92 ft	88 - 92 ft	88 - 92 ft	88 - 92 ft	88 - 92 ft	88 - 92 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	01/21/2013	04/16/2013	07/16/2013	07/22/2013	10/08/2013	04/14/2014	10/17/2014	04/13/2015	10/15/2015	10/11/2016	10/02/2017	10/09/2018	01/22/2013	04/15/2013	07/22/2013	10/08/2013	04/15/2014	10/16/2014	04/14/2015	10/15/2015	10/10/2016	10/03/2017	10/09/2018
VOCs																								
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.25	< 0.5	< 0.25	< 0.5	< 0.50	< 0.50	< 0.25	< 0.46	< 0.22	< 2.2	< 5.5	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.46	< 1.1	< 0.55	< 0.11
1,1,1-Trichloroethane	40	200	< 0.2	< 0.2	< 0.4	< 0.2	< 0.4	< 0.40	< 0.40	< 0.20	< 0.38	< 0.20	< 2	< 5.0	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.38	< 1.0	< 0.5	< 0.10
1,1,2-Trichloroethane	0.5	5	< 0.28	< 0.28	< 0.56	< 0.28	< 0.56	< 0.56	< 0.56	< 0.28	< 0.35	< 0.20	< 2	< 5.0	< 0.28	***2.2***	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.35	< 1.0	< 0.5	< 0.10
1,1-Dichloroethene	0.7	7	< 0.31	< 0.31	< 0.62	< 0.31	< 0.62	< 0.62	< 0.62	< 0.31	< 0.39	< 0.28	< 2.8	< 7.0	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.39	< 1.4	< 0.7	< 0.14
1,2,4-Trimethylbenzene	96	480	< 0.14	< 0.14	< 0.28	< 0.14	< 0.28	< 0.28	< 0.28	< 0.14	< 0.36	< 0.12	< 1.2	< 3.0	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.36	< 0.60	< 0.3	< 0.060
1,2-Dibromoethane	0.005	0.05	< 0.36	< 0.36	< 0.72	< 0.36	< 0.72	< 0.72	< 0.72	< 0.36	< 0.39	< 0.26	< 2.6	< 6.5	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.39	< 1.3	< 0.65	< 0.13
1,2-Dichlorobenzene	60	600	< 0.27	< 0.27	< 0.54	< 0.27	< 0.54	< 0.54	< 0.54	< 0.27	< 0.33	< 0.15	< 1.5	< 3.8	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.33	< 0.76	< 0.38	< 0.076
1,2-Dichloropropane	0.5	5	< 0.2	< 0.2	< 0.4	< 0.2	< 0.4	< 0.40	< 0.40	< 0.20	< 0.43	< 0.20	< 2	< 5.0	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.43	< 1.0	< 0.5	< 0.10
1,2,3-Trichlorobenzene	NE	NE	< 0.24	< 0.24	< 0.48	< 0.24	< 0.48	< 0.48	< 0.48	< 0.24	< 0.46	< 0.090	< 0.9	< 2.3	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.45	< 0.23	< 0.045
1,2,4-Trichlorobenzene	14	70	< 0.31	< 0.31	< 0.62	< 0.31	< 0.62	< 0.62	< 0.62	< 0.31	< 0.34	< 0.15	< 1.5	< 3.9	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.34	< 0.77	< 0.39	< 0.077
1,3,5-Trimethylbenzene	96	480	< 0.18	< 0.18	< 0.36	< 0.18	< 0.36	< 0.36	< 0.36	< 0.18	< 0.25	< 0.15	< 1.5	< 3.8	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.25	< 0.75	< 0.38	< 0.075
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 6.0	< 60	< 150	NA	NA	NA	NA	NA	NA	NA	NA	< 30	< 15	< 3.0
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.9	< 19	< 48	NA	NA	NA	NA	NA	NA	NA	NA	< 9.5	< 4.8	< 0.95
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.5	< 15	< 39	NA	NA	NA	NA	NA	NA	NA	NA	< 7.7	< 3.9	< 0.77
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 6.8	< 68	< 170	NA	NA	NA	NA	NA	NA	NA	NA	< 34	26 BJ	< 3.4
Benzene	0.5	5	< 0.074	< 0.074	< 0.15	< 0.074	< 0.15	< 0.15	< 0.15	< 0.074	< 0.15	< 0.18	< 1.8	< 4.5	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.15	< 0.89	< 0.45	< 0.089
Bromodichloromethane	0.06	0.6	< 0.17	< 0.17	< 0.34	< 0.17	< 0.34	< 0.34	< 0.34	< 0.17	< 0.37	< 0.15	< 1.5	< 3.9	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.37	< 0.77	< 0.39	< 0.077
Bromoform	0.44	4.4	< 0.28	< 0.28	< 0.56	< 0.28	< 0.56	< 0.56	< 0.56	< 0.28	< 0.48	< 0.18	< 1.8	< 4.4	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.48	< 0.88	< 0.44	< 0.088
Bromomethane	1	10	< 0.31	< 0.31	< 0.62	< 0.31	< 0.62	< 0.62	< 0.62 *	< 0.31	< 0.80	< 1.2	< 12	< 30	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.80	< 5.9	< 3	< 0.59
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.11	< 1.1	< 2.7	NA	NA	NA	NA	NA	NA	NA	NA	3.1 J	< 0.27	< 0.053
Carbon tetrachloride	0.5	5	< 0.26	< 0.26	< 0.52	< 0.26	< 0.52	< 0.52	< 0.52	< 0.26	< 0.38	< 0.076	< 0.76	< 1.9	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.38	< 0.38	< 0.19	< 0.038
Chloroform	0.6	6	< 0.2	< 0.2	< 0.4	< 0.2	< 0.4	< 0.40	< 0.40	< 0.20	< 0.37	< 0.12	***1.2 J***	< 3.1	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.37	< 0.62	< 0.31	< 0.062
Chloromethane	3	30	< 0.18	< 0.18	< 0.36	< 0.18	< 0.36	< 0.36	< 0.36	< 0.18	< 0.32	0.92 BJ	***5.2 J+***	< 8.0	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.32	***11 BJ***	1.3 J+	< 0.29 U
cis-1,2-Dichloroethene	7	70	< 0.12	< 0.12	***22***	***21***	***22***	***19***	***24***	***22***	***30***	***30***	***32***	***34***	***7.5***	***23***	***14***	***20***	***23***	***12***	***17***	***15***	***25***	***17***	***12***
Dichlorodifluoromethane	200	1000	< 0.2	< 0.2	< 0.4	< 0.2	< 0.4	< 0.40	< 0.40	< 0.20	< 0.54	< 0.22	< 2.2	< 5.5	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.54	< 1.1	< 0.55	0.16 J
Ethylbenzene	140	700	< 0.13	< 0.13	< 0.26	< 0.13	< 0.26	< 0.26	< 0.26	< 0.13	< 0.18	< 0.11	< 1.1	< 2.7	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.18	< 0.54	< 0.27	< 0.054
Isopropylbenzene	NE	NE	< 0.14	< 0.14	< 0.28	< 0.14	< 0.28	< 0.28	< 0.28	< 0.14	< 0.39	< 0.16	< 1.6	< 4.1	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.39	< 0.81	< 0.41	< 0.081
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.11	1.2 BJ	< 2.9	NA	NA	NA	NA	NA	NA	NA	NA	< 0.57	0.3 BJ	< 0.057
Methyl tert-butyl ether	12	60	< 0.24	< 0.24	< 0.48	< 0.24	< 0.48	< 0.48	< 0.48 *	< 0.24	< 0.39	< 0.28	< 2.8	< 7.0	2.3	0.84 J	< 0.24	3.3	3.5	< 0.24	< 0.24	2.5	4.0 J	< 0.7	< 0.14
Methylene chloride	0.5	5	< 0.68	< 0.68	< 1.4	< 0.68	< 1.4	< 1.4	< 1.4	< 0.68	< 1.6	< 0.28	< 2.8	< 7.0	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 1.6	< 1.4	< 0.7	< 0.23 U
Naphthalene	10	100	< 0.16	< 0.16	< 0.32	< 0.16	< 0.32	< 0.32	< 0.32	< 0.16	< 0.34	< 0.18	< 1.8	< 4.4	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.34	< 0.88	< 0.44	< 0.088
n-Butylbenzene	NE	NE	< 0.13	< 0.13	< 0.26	< 0.13	< 0.26	< 0.26	< 0.26	< 0.13	< 0.39	< 0.28	< 2.8	< 7.0	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.39	< 1.4	< 0.7	< 0.14
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.42	< 4.2	< 11	NA	NA	NA	NA	NA	NA	NA	NA	4.0 J	< 1.1	< 0.21
n-Propylbenzene	NE	NE	< 0.13	< 0.13	< 0.26	< 0.13	< 0.26	< 0.26	< 0.26	< 0.13	< 0.41	< 0.20	< 2	< 5.0	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.41	< 1.0	< 0.5	< 0.10
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.12	< 1.2	< 2.9	NA	NA	NA	NA	NA	NA	NA	NA	< 0.58	< 0.29	< 0.058
p-Isopropyltoluene	NE	NE	< 0.17	< 0.17	< 0.34	< 0.17	< 0.34	< 0.34	< 0.34	< 0.17	< 0.36	< 0.17	< 1.7	< 4.3	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.36	< 0.85	< 0.43	< 0.085
sec-Butylbenzene	NE	NE	< 0.15	< 0.15	< 0.3	< 0.15	< 0.3	< 0.30	< 0.30	< 0.15	< 0.40	< 0.26	< 2.6	< 6.5	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.40	< 1.3	< 0.65	< 0.13
Styrene	10	100	< 0.1	< 0.1	< 0.2	< 0.1	< 0.2	< 0.20	< 0.20	< 0.10	< 0.39	< 0.13	1.6 BJ	< 3.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.39	< 0.65	0.35 BJ	< 0.065
tert-Butylbenzene	NE	NE	< 0.14	< 0.14	< 0.28	< 0.14	< 0.28	< 0.28	< 0.28	< 0.14	< 0.40	< 0.24	< 2.4	< 6.0	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.40	< 1.2	< 0.6	< 0.12
Tetrachloroethene	0.5	5	***1.2***	***9.2***	***520***	***520***	***640***	***630***	***890***	***640 E***	***690***	***730***	***840***	***920***	***130***	***160***	***130***	***220***	***300***	***100***	***160***	***150***	***160***	***160***	***120***
Toluene	160	800	< 0.11	< 0.11	< 0.22	< 0.11	< 0.22	< 0.22	< 0.22	< 0.11	< 0.15	< 0.11	< 1.1	< 2.7	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.15	1.5 J	< 0.27	< 0.053
trans-1,2-Dichloroethene	20	100	< 0.25	< 0.25	< 0.5	< 0.25	< 0.5	< 0.50	< 0.50	< 0.25	< 0.35	0.40 J	< 2.2	< 5.5	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.35	< 1.1	< 0.55	< 0.11
Trichloroethene	0.5	5	< 0.19	***0.78***	***42***	***37***	***37***	***33***	***46***	***40***	***57***	***58***	***60***	***64***	***11***	***15***	***12***	***19***	***24***	***12***	***16***	***14***	***19***	***14***	***10***
Trichlorofluoromethane	698	3490	< 0.19	< 0.19	< 0.38	< 0.19	< 0.38	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 10	< 6.5	< 0.19	< 0.19	< 0.19	< 0.19	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 2.5	< 0.13
Vinyl chloride	0.02	0.2	< 0.1	< 0.1	< 0.2	< 0.1	< 0.2	< 0.20	< 0.20	< 0.10	< 0.20	< 0.32	< 3.2	< 8.0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.20	< 1.6	< 0.8	***0.19 J+***
Xylenes, Total	400	2000	< 0.068	< 0.068	< 0.14	< 0.068	< 0.14	< 0.14	< 0.14	< 0.068	< 0.22	< 0.12	< 2.3	< 5.8	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.22	< 0.58	< 0.58	< 0.12
Total PCBs																									
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																									
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																									
Total Dissolved Solids (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	100 - 105 ft	100 - 105 ft	100 - 105 ft	100 - 105 ft	100 - 105 ft	100 - 105 ft	100 - 105 ft	100 - 105 ft	100 - 105 ft	100 - 105 ft	100 - 105 ft	120 - 125 ft	120 - 125 ft	120 - 125 ft	120 - 125 ft	120 - 125 ft	120 - 125 ft	120 - 125 ft	120 - 125 ft	120 - 125 ft	120 - 125 ft	120 - 125 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	01/22/2013	04/15/2013	07/22/2013	10/08/2013	04/15/2014	10/16/2014	04/14/2015	10/15/2015	10/10/2016	10/03/2017	10/09/2018	01/22/2013	04/15/2013	07/22/2013	10/08/2013	04/15/2014	10/16/2014	04/14/2015	10/15/2015	10/10/2016	10/03/2017	10/09/2018
VOCs																							
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.25	< 0.25	< 0.5	< 0.50	< 0.50	< 0.25	< 0.46	< 2.2	< 2.2	< 5.5	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 0.92	< 11	< 5.5	< 5.5
1,1,1-Trichloroethane	40	200	< 0.2	< 0.2	< 0.2	< 0.4	< 0.40	< 0.40	< 0.20	< 0.38	< 2.0	< 2	< 5.0	< 0.4	< 0.4	< 1	< 1	< 1.0	< 1.0	< 1.0	< 0.76	< 10	< 5	< 5.0
1,1,2-Trichloroethane	0.5	5	< 0.28	< 0.28	< 0.28	< 0.56	< 0.56	< 0.56	< 0.28	< 0.35	< 2.0	< 2	< 5.0	< 0.56	< 0.56	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 0.70	< 10	< 5	< 5.0
1,1-Dichloroethene	0.7	7	< 0.31	< 0.31	< 0.31	< 0.62	< 0.62	< 0.62	< 0.31	< 0.39	< 2.8	< 2.8	< 7.0	< 0.62	< 0.62	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 0.78	< 14	< 7	< 7.0
1,2,4-Trimethylbenzene	96	480	< 0.14	< 0.14	< 0.14	< 0.28	< 0.28	< 0.28	< 0.14	< 0.36	< 1.2	< 1.2	< 3.0	< 0.28	< 0.28	< 0.7	< 0.7	< 0.70	< 0.70	< 0.70	< 0.72	< 6.0	< 3	< 3.0
1,2-Dibromoethane	0.005	0.05	< 0.36	< 0.36	< 0.36	< 0.72	< 0.72	< 0.72	< 0.36	< 0.39	< 2.6	< 2.6	< 6.5	< 0.72	< 0.72	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 0.77	< 13	< 6.5	< 6.5
1,2-Dichlorobenzene	60	600	< 0.27	< 0.27	< 0.27	< 0.54	< 0.54	< 0.54	< 0.27	< 0.33	< 1.5	< 1.5	< 3.8	< 0.54	< 0.54	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 0.67	< 7.6	< 3.8	< 3.8
1,2-Dichloropropane	0.5	5	< 0.2	< 0.2	< 0.2	< 0.4	< 0.40	< 0.40	< 0.20	< 0.43	< 2.0	< 2	< 5.0	< 0.4	< 0.4	< 1	< 1	< 1.0	< 1.0	< 1.0	< 0.86	< 10	< 5	< 5.0
1,2,3-Trichlorobenzene	NE	NE	< 0.24	< 0.24	< 0.24	< 0.48	< 0.48	< 0.48	< 0.24	< 0.46	< 0.90	< 0.9	< 2.3	< 0.48	< 0.48	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 0.92	< 4.5	< 2.3	< 2.3
1,2,4-Trichlorobenzene	14	70	< 0.31	< 0.31	< 0.31	< 0.62	< 0.62	< 0.62	< 0.31	< 0.34	< 1.5	< 1.5	< 3.9	< 0.62	< 0.62	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 0.68	< 7.7	< 3.9	< 3.9
1,3,5-Trimethylbenzene	96	480	< 0.18	< 0.18	< 0.18	< 0.36	< 0.36	< 0.36	< 0.18	< 0.25	< 1.5	< 1.5	< 3.8	< 0.36	< 0.36	< 0.9	< 0.9	< 0.90	< 0.90	< 0.90	< 0.51	< 7.5	< 3.8	< 3.8
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	< 60	< 60	< 150	NA	NA	NA	NA	NA	NA	NA	NA	< 300	< 150	< 150
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	< 19	< 19	< 48	NA	NA	NA	NA	NA	NA	NA	NA	< 95	< 48	< 48
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	< 15	< 15	< 39	NA	NA	NA	NA	NA	NA	NA	NA	< 77	< 39	< 39
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	< 68	< 68	< 170	NA	NA	NA	NA	NA	NA	NA	NA	< 340	< 170	< 170
Benzene	0.5	5	< 0.074	< 0.074	< 0.074	< 0.15	< 0.15	< 0.15	< 0.074	< 0.15	< 1.8	< 1.8	< 4.5	< 0.15	< 0.15	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.29	< 8.9	< 4.5	< 4.5
Bromodichloromethane	0.06	0.6	< 0.17	< 0.17	< 0.17	< 0.34	< 0.34	< 0.34	< 0.17	< 0.37	< 1.5	< 1.5	< 3.9	< 0.34	< 0.34	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.74	< 7.7	< 3.9	< 3.9
Bromoform	0.44	4.4	< 0.28	< 0.28	< 0.28	< 0.56	< 0.56	< 0.56	< 0.28	< 0.48	< 1.8	< 1.8	< 4.4	< 0.56	< 0.56	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 0.97	< 8.8	< 4.4	< 4.4
Bromomethane	1	10	< 0.31	< 0.31	< 0.31	< 0.62	< 0.62	< 0.62	< 0.31	< 0.80	< 12	< 12	< 30	< 0.62	< 0.62	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 59	< 30	< 30
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	5.6 J	< 1.1	< 2.7	NA	NA	NA	NA	NA	NA	NA	NA	29 J	< 2.7	< 2.7
Carbon tetrachloride	0.5	5	< 0.26	< 0.26	< 0.26	< 0.52	< 0.52	< 0.52	< 0.26	< 0.38	< 0.76	< 0.76	< 1.9	< 0.52	< 0.52	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 0.77	< 3.8	< 1.9	< 1.9
Chloroform	0.6	6	< 0.2	< 0.2	< 0.2	< 0.4	< 0.40	< 0.40	< 0.20	< 0.37	< 1.2	< 1.2	< 3.1	< 0.4	< 0.4	< 1	< 1	< 1.0	< 1.0	< 1.0	< 0.74	< 6.2	< 3.1	< 3.1
Chloromethane	3	30	< 0.18	< 0.18	< 0.18	< 0.36	< 0.36	< 0.36	< 0.18	< 0.32	***21 BJ***	< 3.2	< 17 U	< 0.36	< 0.36	< 0.9	< 0.9	< 0.90	< 0.90	< 0.90	< 0.64	***96 BJ***	< 8	< 8.0
cis-1,2-Dichloroethene	7	70	***9.3***	***37***	***68***	***76***	***96***	***83***	***66***	***77***	***61***	***79***	***69***	***200***	***230***	***250***	***220***	***230***	***260***	***200***	***230***	***220***	***140***	***85***
Dichlorodifluoromethane	200	1000	< 0.2	< 0.2	< 0.2	< 0.4	< 0.40	< 0.40	< 0.20	< 0.54	< 2.2	< 2.2	< 5.5	< 0.4	< 0.4	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.1	< 11	< 5.5	< 5.5
Ethylbenzene	140	700	< 0.13	< 0.13	< 0.13	< 0.26	< 0.26	< 0.26	< 0.13	< 0.18	< 1.1	< 1.1	< 2.7	< 0.26	< 0.26	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.37	< 5.4	< 2.7	< 2.7
Isopropylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.28	< 0.28	< 0.28	< 0.14	< 0.39	< 1.6	< 1.6	< 4.1	< 0.28	< 0.28	< 0.7	< 0.7	< 0.70	< 0.70	< 0.70	< 0.77	< 8.1	< 4.1	< 4.1
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	< 1.1	< 1.1	< 2.9	NA	NA	NA	NA	NA	NA	NA	NA	< 5.7	< 2.9	< 2.9
Methyl tert-butyl ether	12	60	2.2	1.3	< 0.24	< 0.48	< 0.48	< 0.48	< 0.24	< 0.39	< 2.8	< 2.8	< 7.0	< 0.48	< 0.48	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 0.79	< 14	< 7	< 7.0
Methylene chloride	0.5	5	< 0.68	< 0.68	< 0.68	< 1.4	< 1.4	< 1.4	< 0.68	< 1.6	< 2.8	< 2.8	< 7.0	< 1.4	< 1.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.3	< 14	< 7	< 7.0
Naphthalene	10	100	< 0.16	< 0.16	< 0.16	< 0.32	< 0.32	< 0.32	< 0.16	< 0.34	< 1.8	< 1.8	< 4.4	< 0.32	< 0.32	< 0.8	< 0.8	< 0.80	< 0.80	< 0.80	< 0.67	< 8.8	< 4.4	< 4.4
n-Butylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.26	< 0.26	< 0.26	< 0.13	< 0.39	< 2.8	< 2.8	< 7.0	< 0.26	< 0.26	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.78	< 14	< 7	< 7.0
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	6.2 J	< 4.2	< 11	NA	NA	NA	NA	NA	NA	NA	NA	< 21	< 11	< 11
n-Propylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.26	< 0.26	< 0.26	< 0.13	< 0.41	< 2.0	< 2	< 5.0	< 0.26	< 0.26	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.83	< 10	< 5	< 5.0
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	< 1.2	< 1.2	< 2.9	NA	NA	NA	NA	NA	NA	NA	NA	< 5.8	< 2.9	< 2.9
p-Isopropyltoluene	NE	NE	< 0.17	< 0.17	< 0.17	< 0.34	< 0.34	< 0.34	< 0.17	< 0.36	< 1.7	< 1.7	< 4.3	< 0.34	< 0.34	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.72	< 8.5	< 4.3	< 4.3
sec-Butylbenzene	NE	NE	< 0.15	< 0.15	< 0.15	< 0.3	< 0.30	< 0.30	< 0.15	< 0.40	< 2.6	< 2.6	< 6.5	< 0.3	< 0.3	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.80	< 13	< 6.5	< 6.5
Styrene	10	100	< 0.1	< 0.1	< 0.1	< 0.2	< 0.20	< 0.20	< 0.10	< 0.39	< 1.3	1.6 BJ	< 3.3	< 0.2	< 0.2	< 0.5	< 0.5	< 0.50	< 0.50	< 0.50	< 0.77	< 6.5	4 BJ	< 3.3
tert-Butylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.28	< 0.28	< 0.28	< 0.14	< 0.40	< 2.4	< 2.4	< 6.0	< 0.28	< 0.28	< 0.7	< 0.7	< 0.70	< 0.70	< 0.70	< 0.80	< 12	< 6	< 6.0
Tetrachloroethene	0.5	5	***230***	***440***	***660***	***690***	***890***	***930***	***790***	***850***	***910***	***820***	***990***	***1100***	***1900***	***2100***	***1800***	***2000***	***2300***	***1700***	***2200***	***2900***	***2300***	***1700***
Toluene	160	800	< 0.11	< 0.11	< 0.11	< 0.22	< 0.22	< 0.22	< 0.11	< 0.15	2.8 J	< 1.1	< 2.7	< 0.22	< 0.22	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.30	12 J	< 2.7	< 2.7
trans-1,2-Dichloroethene	20	100	< 0.25	< 0.25	0.51 J	< 0.5	1.2 J	< 0.50	< 0.25	0.54 J	< 2.2	< 2.2	< 5.5	1.3 J	1.7 J	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	1.6 J	< 11	< 5.5	< 5.5
Trichloroethene	0.5	5	***16***	***41***	***65***	***72***	***92***	***93***	***74***	***83***	***81***	***85***	***80***	***160***	***210***	***220***	***190***	***210***	***280***	***190***	***220***	***250***	***190***	***110***
Trichlorofluoromethane	698	3490	< 0.19	< 0.19	< 0.19	< 0.38	< 2.0	< 2.0	< 1.0	< 1.0	< 10	< 10	< 6.5	< 0.38	< 0.38	< 0.95	< 0.95	< 5.0	< 5.0	< 5.0	< 2.0	< 50	< 25	< 6.5
Vinyl chloride	0.02	0.2	< 0.1	< 0.1	< 0.1	< 0.2	< 0.20	***0.46 J***	< 0.10	< 0.20	< 3.2	< 3.2	< 8.0	< 0.2	***1***	***1.9 J***	< 0.5	< 0.50	***1.6 J***	< 0.50	< 0.41	< 16	< 8	< 8.0
Xylenes, Total	400	2000	< 0.068	< 0.068	< 0.068	< 0.14	< 0.14	< 0.14	< 0.068	< 0.22	< 1.2	< 2.3	< 5.8	< 0.14	< 0.14	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.44	< 5.8	< 5.8	< 5.8
Total PCBs																							
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																							
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																							
Total Dissolved Solids (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	142 - 146 ft	142 - 146 ft	142 - 146 ft	142 - 146 ft	142 - 146 ft	142 - 146 ft	142 - 146 ft	142 - 146 ft	142 - 146 ft	142 - 146 ft	142 - 146 ft	177 - 187 ft	177 - 187 ft	177 - 187 ft	177 - 187 ft	177 - 187 ft	177 - 187 ft	177 - 187 ft	177 - 187 ft	177 - 187 ft	177 - 187 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	01/22/2013	04/15/2013	07/22/2013	10/08/2013	04/15/2014	10/16/2014	04/14/2015	10/15/2015	10/10/2016	10/03/2017	10/09/2018	01/22/2013	04/15/2013	07/22/2013	10/08/2013	04/15/2014	10/16/2014	04/14/2015	10/15/2015	10/10/2016	10/03/2017	10/09/2018
VOCs																							
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.25	< 0.25	< 0.5	< 0.50	< 0.50	< 0.50	< 0.92	< 4.4	< 5.5	< 5.5	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.46	< 0.11	< 0.11	< 0.11
1,1,1-Trichloroethane	40	200	< 0.2	< 0.2	< 0.2	< 0.4	< 0.40	< 0.40	< 0.40	< 0.76	< 4.0	< 5	< 5.0	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.38	< 0.10	< 0.1	< 0.10
1,1,2-Trichloroethane	0.5	5	< 0.28	< 0.28	< 0.28	< 0.56	< 0.56	< 0.56	< 0.56	< 0.70	< 4.0	< 5	< 5.0	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.35	< 0.10	< 0.1	< 0.10
1,1-Dichloroethene	0.7	7	< 0.31	< 0.31	< 0.31	< 0.62	< 0.62	< 0.62	< 0.62	< 0.78	< 5.6	< 7	< 7.0	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.39	< 0.14	< 0.14	< 0.14
1,2,4-Trimethylbenzene	96	480	< 0.14	< 0.14	< 0.14	< 0.28	< 0.28	< 0.28	< 0.28	< 0.72	< 2.4	< 3	< 3.0	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.36	< 0.060	< 0.06	< 0.060
1,2-Dibromoethane	0.005	0.05	< 0.36	< 0.36	< 0.36	< 0.72	< 0.72	< 0.72	< 0.72	< 0.77	< 5.2	< 6.5	< 6.5	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.39	< 0.13	< 0.13	< 0.13
1,2-Dichlorobenzene	60	600	< 0.27	< 0.27	< 0.27	< 0.54	< 0.54	< 0.54	< 0.54	< 0.67	< 3.0	< 3.8	< 3.8	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.33	< 0.076	< 0.076	< 0.076
1,2-Dichloropropane	0.5	5	< 0.2	< 0.2	< 0.2	< 0.4	< 0.40	< 0.40	< 0.40	< 0.86	< 4.0	< 5	< 5.0	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.43	< 0.10	< 0.1	< 0.10
1,2,3-Trichlorobenzene	NE	NE	< 0.24	< 0.24	< 0.24	< 0.48	< 0.48	< 0.48	< 0.48	< 0.92	< 1.8	< 2.3	< 2.3	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.045	< 0.045	< 0.045
1,2,4-Trichlorobenzene	14	70	< 0.31	< 0.31	< 0.31	< 0.62	< 0.62	< 0.62	< 0.62	< 0.68	< 3.1	< 3.9	< 3.9	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.34	< 0.077	< 0.077	< 0.077
1,3,5-Trimethylbenzene	96	480	< 0.18	< 0.18	< 0.18	< 0.36	< 0.36	< 0.36	< 0.36	< 0.51	< 3.0	< 3.8	< 3.8	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.25	< 0.075	< 0.075	< 0.075
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	< 120	< 150	< 150	NA	NA	NA	NA	NA	NA	NA	NA	< 3.0	< 3	< 3.0
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	< 38	< 48	< 48	NA	NA	NA	NA	NA	NA	NA	NA	< 0.95	< 0.95	< 0.95
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	< 31	< 39	< 39	NA	NA	NA	NA	NA	NA	NA	NA	< 0.77	< 0.77	< 0.77
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	< 140	230 J	< 170	NA	NA	NA	NA	NA	NA	NA	NA	< 3.4	< 3.4	< 5.4 U
Benzene	0.5	5	< 0.074	< 0.074	< 0.074	< 0.15	< 0.15	0.37 J	< 0.15	< 0.29	< 3.6	< 4.5	< 4.5	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	0.23 J	< 0.074	< 0.15	< 0.089	< 0.089	< 0.089
Bromodichloromethane	0.06	0.6	< 0.17	< 0.17	< 0.17	< 0.34	< 0.34	< 0.34	< 0.34	< 0.74	< 3.1	< 3.9	< 3.9	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.37	< 0.077	< 0.077	< 0.077
Bromoform	0.44	4.4	< 0.28	< 0.28	< 0.28	< 0.56	< 0.56	< 0.56	< 0.56	< 0.97	< 3.5	< 4.4	< 4.4	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.48	< 0.088	< 0.088	< 0.088
Bromomethane	1	10	< 0.31	< 0.31	< 0.31	< 0.62	< 0.62	< 0.62	< 0.62	< 1.6	< 24	< 30	< 30	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.80	< 0.59	< 0.59	< 0.59
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	10 J	< 2.7	< 2.7	NA	NA	NA	NA	NA	NA	NA	NA	< 0.053	< 0.053	0.080 J
Carbon tetrachloride	0.5	5	< 0.26	< 0.26	< 0.26	< 0.52	< 0.52	< 0.52	< 0.52	< 0.77	< 1.5	< 1.9	< 1.9	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.38	< 0.038	< 0.038	< 0.038
Chloroform	0.6	6	< 0.2	< 0.2	< 0.2	< 0.4	< 0.40	< 0.40	< 0.40	< 0.74	< 2.5	< 3.1	< 3.1	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.37	< 0.062	< 0.062	< 0.062
Chloromethane	3	30	< 0.18	< 0.18	< 0.18	< 0.36	< 0.36	< 0.36	< 0.36	< 0.64	***35 BJ***	***9.5 J+***	< 14 U	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.32	< 0.16	0.37 J+	< 0.66 U
cis-1,2-Dichloroethene	7	70	***9.7***	***75***	***110***	***140***	***140***	***150***	***140***	***190***	***180***	***180***	***160***	***9.5***	6.7	6.0	***16***	***17***	***31***	***33***	5.2	0.60	0.48 J	0.50
Dichlorodifluoromethane	200	1000	< 0.2	< 0.2	< 0.2	< 0.4	< 0.40	< 0.40	< 0.40	< 1.1	< 4.4	< 5.5	< 5.5	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.54	< 0.11	< 0.11	< 0.11
Ethylbenzene	140	700	< 0.13	< 0.13	< 0.13	< 0.26	< 0.26	< 0.26	< 0.26	< 0.37	< 2.2	< 2.7	< 2.7	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.18	< 0.054	< 0.054	< 0.054
Isopropylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.28	< 0.28	< 0.28	< 0.28	< 0.77	< 3.2	< 4.1	< 4.1	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.39	< 0.081	< 0.081	< 0.081
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	< 2.3	3 BJ	< 2.9	NA	NA	NA	NA	NA	NA	NA	NA	< 0.057	< 0.057	< 0.057
Methyl tert-butyl ether	12	60	2.0	< 0.24	< 0.24	< 0.48	< 0.48	< 0.48	< 0.48	< 0.79	< 5.6	< 7	< 7.0	2.5	1.6	0.86 J	0.90 J	< 0.24	< 0.24	< 0.24	< 0.39	< 0.14	< 0.14	< 0.14
Methylene chloride	0.5	5	< 0.68	< 0.68	< 0.68	< 1.4	< 1.4	< 1.4	< 1.4	< 3.3	< 5.6	< 7	< 7.0	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 1.6	< 0.14	< 0.14	< 0.29 U
Naphthalene	10	100	< 0.16	< 0.16	< 0.16	< 0.32	< 0.32	< 0.32	< 0.32	< 0.67	< 3.5	< 4.4	< 4.4	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.34	< 0.088	< 0.088	< 0.15 U
n-Butylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.26	< 0.26	< 0.26	< 0.26	< 0.78	< 5.6	< 7	< 7.0	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.39	< 0.14	< 0.14	< 0.14
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	15 J	< 11	< 11	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	< 0.21	< 0.21
n-Propylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.26	< 0.26	< 0.26	< 0.26	< 0.83	< 4.0	< 5	< 5.0	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.41	< 0.10	< 0.1	< 0.10
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	< 2.3	< 2.9	< 2.9	NA	NA	NA	NA	NA	NA	NA	NA	< 0.058	< 0.058	< 0.058
p-Isopropyltoluene	NE	NE	< 0.17	< 0.17	< 0.17	< 0.34	< 0.34	< 0.34	< 0.34	< 0.72	< 3.4	< 4.3	< 4.3	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.36	< 0.085	< 0.085	< 0.085
sec-Butylbenzene	NE	NE	< 0.15	< 0.15	< 0.15	< 0.3	< 0.30	< 0.30	< 0.30	< 0.80	< 5.2	< 6.5	< 6.5	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.40	< 0.13	< 0.13	< 0.13
Styrene	10	100	< 0.1	< 0.1	< 0.1	< 0.2	< 0.20	< 0.20	< 0.20	< 0.77	< 2.6	3.5 BJ	< 3.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.39	< 0.065	0.07 BJ	< 0.065
tert-Butylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.28	< 0.28	< 0.28	< 0.28	< 0.80	< 4.8	< 6	< 6.0	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.40	< 0.12	< 0.12	< 0.12
Tetrachloroethene	0.5	5	***170***	***580***	***640***	***840***	***970***	***1000***	***970***	***1100***	***1300***	***1800***	***1900***	***240***	***140***	***110***	***100***	***73***	***86***	***130***	***38***	***10***	***8.9***	***8.5***
Toluene	160	800	< 0.11	< 0.11	< 0.11	< 0.22	< 0.22	< 0.22	< 0.22	< 0.30	4.8 J	3 J	< 2.7	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.15	0.11 J	< 0.053	< 0.053
trans-1,2-Dichloroethene	20	100	< 0.25	0.86 J	0.97 J	1.4 J	1.5 J	1.3 J	< 0.50	1.4 J	< 4.4	< 5.5	< 5.5	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.35	< 0.11	< 0.11	< 0.11
Trichloroethene	0.5	5	***14***	***78***	***100***	***130***	***130***	***140***	***130***	***170***	***170***	***180***	***160***	***17***	***12***	***7.7***	***12***	***12***	***21***	***26***	***5.8***	***1.4***	***0.95***	***0.89***
Trichlorofluoromethane	698	3490	< 0.19	< 0.19	< 0.19	< 0.38	< 2.0	< 2.0	< 2.0	< 2.0	< 20	< 25	< 6.5	< 0.19	< 0.19	< 0.19	< 0.19	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 0.5	< 0.13
Vinyl chloride	0.02	0.2	< 0.1	***0.39 J***	***0.58***	***0.76 J***	< 0.20	***0.72 J***	< 0.20	< 0.41	< 6.4	< 8	< 8.0	< 0.1	< 0.1	< 0.1	***0.34 J***	< 0.10	***0.39 J***	< 0.10	< 0.20	< 0.16	< 0.16	< 0.16
Xylenes, Total	400	2000	< 0.068	< 0.068	< 0.068	< 0.14	< 0.14	< 0.14	< 0.14	< 0.44	< 2.3	< 5.8	< 5.8	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.22	< 0.058	< 0.12	< 0.12
Total PCBs																								
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																								
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																								
Total Dissolved Solids (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes on Page 56.

Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MP-16	MP-16	MP-16	MP-16	MP-16	MP-16	MP-16	MP-16	MP-16	MP-16	MP-16	MP-16	MP-16	MP-16	MP-16	MP-16	MP-16
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	80 - 84 ft	80 - 84 ft	80 - 84 ft	80 - 84 ft	80 - 84 ft	80 - 84 ft	106 - 116 ft	106 - 116 ft	106 - 116 ft	106 - 116 ft	106 - 116 ft	106 - 116 ft	106 - 116 ft	106 - 116 ft	106 - 116 ft	106 - 116 ft	106 - 116 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	01/22/2013	04/16/2013	07/23/2013	10/09/2013	04/15/2014	10/16/2014	01/22/2013	04/16/2013	07/23/2013	10/09/2013	04/15/2014	10/16/2014	04/13/2015	10/15/2015	10/11/2016	10/02/2017	10/08/2018
VOCs																			
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.46	< 0.22	< 0.11	< 0.11
1,1,1-Trichloroethane	40	200	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.38	< 0.20	< 0.1	< 0.10
1,1,2-Trichloroethane	0.5	5	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.35	< 0.20	< 0.1	< 0.10
1,1-Dichloroethene	0.7	7	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.39	< 0.28	< 0.14	< 0.14
1,2,4-Trimethylbenzene	96	480	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.36	< 0.12	< 0.06	< 0.060
1,2-Dibromoethane	0.005	0.05	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.39	< 0.26	< 0.13	< 0.13
1,2-Dichlorobenzene	60	600	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.33	< 0.15	< 0.076	< 0.076
1,2-Dichloropropane	0.5	5	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.43	< 0.20	< 0.1	< 0.10
1,2,3-Trichlorobenzene	NE	NE	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.090	< 0.045	< 0.045
1,2,4-Trichlorobenzene	14	70	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.34	< 0.15	< 0.077	< 0.077
1,3,5-Trimethylbenzene	96	480	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.25	< 0.15	< 0.075	< 0.075
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 6.0	< 3	< 3.0
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.9	< 0.95	< 0.95
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.5	< 0.77	< 0.77
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 6.8	6.2 J	< 3.6 U
Benzene	0.5	5	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.15	< 0.18	< 0.089	< 0.089
Bromodichloromethane	0.06	0.6	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.37	< 0.15	< 0.077	< 0.077
Bromoform	0.44	4.4	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.48	< 0.18	< 0.088	< 0.088
Bromomethane	1	10	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.80	< 1.2	< 0.59	< 0.59
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.11	< 0.053	< 0.053
Carbon tetrachloride	0.5	5	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.38	< 0.076	< 0.038	< 0.038
Chloroform	0.6	6	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.37	< 0.12	< 0.062	< 0.062
Chloromethane	3	30	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.32	0.74 BJ	1.6 J	< 0.65 U
cis-1,2-Dichloroethene	7	70	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	2.6	5.8	***9.5***	***10***	5.4	***10***	6.4	***7***	6.4	4.5	5.1
Dichlorodifluoromethane	200	1000	< 0.2	< 0.2	< 0.2 *	< 0.2	< 0.20	< 0.20	< 0.2	< 0.2	< 0.2 *	< 0.2	< 0.20	< 0.20	< 0.20	< 0.54	< 0.22	< 0.11	< 0.11
Ethylbenzene	140	700	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.18	< 0.11	< 0.054	< 0.054
Isopropylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.39	< 0.16	< 0.081	< 0.081
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.11	0.06 BJ	< 0.057
Methyl tert-butyl ether	12	60	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.39	< 0.28	< 0.14	< 0.14
Methylene chloride	0.5	5	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 1.6	< 0.28	< 0.14	< 0.24 U
Naphthalene	10	100	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.34	< 0.18	< 0.088	< 0.088
n-Butylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.39	< 0.28	< 0.14	< 0.14
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.42	< 0.21	< 0.21
n-Propylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.41	< 0.20	< 0.1	< 0.10
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.12	< 0.058	< 0.058
p-Isopropyltoluene	NE	NE	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.36	< 0.17	< 0.085	< 0.085
sec-Butylbenzene	NE	NE	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.40	< 0.26	< 0.13	< 0.13
Styrene	10	100	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.39	< 0.13	< 0.065	< 0.065
tert-Butylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.40	< 0.24	< 0.12	< 0.12
Tetrachloroethene	0.5	5	***0.76 J***	< 0.17	< 0.17	***0.76 J***	***0.56 J***	< 0.17	***23***	***330***	***90***	***94***	***330***	***110***	***120***	***89***	***68***	***45***	***53***
Toluene	160	800	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.15	0.16 J	< 0.053	< 0.053
trans-1,2-Dichloroethene	20	100	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.35	< 0.22	< 0.11	< 0.11
Trichloroethene	0.5	5	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	***3.8***	***44***	***12***	***13***	***30***	***16***	***12***	***10***	***9.2***	***7.1***	***6.6***
Trichlorofluoromethane	698	3490	< 0.19	< 0.19	< 0.19	< 0.19	< 1.0	< 1.0	< 0.19	< 0.19	< 0.19	< 0.19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.5	< 0.13
Vinyl chloride	0.02	0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.20	< 0.32	< 0.16	< 0.16
Xylenes, Total	400	2000	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.22	< 0.12	< 0.12	< 0.12
Total PCBs																			
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																			
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																			
Total Dissolved Solids (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes on Page 56.

Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MP-16	MP-16	MP-16	MP-16	MP-16	MP-16	MP-16	MP-16	MP-16	MP-16	MP-16	MP-16	MP-16	MP-16	MP-16	MP-16	MP-16	MP-16 (140-144)
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	140 - 144 ft	140 - 144 ft	140 - 144 ft	140 - 144 ft	140 - 144 ft	140 - 144 ft	140 - 144 ft	140 - 144 ft	140 - 144 ft	140 - 144 ft	140 - 144 ft	140 - 144 ft	140 - 144 ft	140 - 144 ft	140 - 144 ft	140 - 144 ft	140 - 144 ft	140 - 144 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	01/22/2013	04/16/2013	07/23/2013	10/09/2013	04/15/2014	10/16/2014	04/13/2015	10/15/2015	01/20/2016	04/19/2016	07/18/2016	10/11/2016	1/18/2017	04/10/2017	10/02/2017	04/02/2018	10/08/2018	04/08/2019
VOCs																				
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.46	< 0.11	< 0.22	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.27
1,1,1-Trichloroethane	40	200	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.38	< 0.10	< 0.20	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	< 0.10	< 0.10	< 0.24
1,1,2-Trichloroethane	0.5	5	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.35	< 0.10	< 0.20	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	< 0.10	< 0.10	< 0.55
1,1-Dichloroethene	0.7	7	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.39	< 0.14	< 0.28	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.24
1,2,4-Trimethylbenzene	96	480	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.36	< 0.060	< 0.12	< 0.060	< 0.060	< 0.060	< 0.060	< 0.06	< 0.060	< 0.060	< 0.84
1,2-Dibromoethane	0.005	0.05	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.39	< 0.13	< 0.26	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.83
1,2-Dichlorobenzene	60	600	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.33	< 0.076	< 0.15	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.71
1,2-Dichloropropane	0.5	5	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.43	< 0.10	< 0.20	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	< 0.10	< 0.10	< 0.28
1,2,3-Trichlorobenzene	NE	NE	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.045	< 0.090	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.63
1,2,4-Trichlorobenzene	14	70	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.34	< 0.077	< 0.15	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.95
1,3,5-Trimethylbenzene	96	480	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.25	< 0.075	< 0.15	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.87
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	< 3.0	< 6.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3	< 3.0	< 3.0	< 2.9
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	2.2 J	< 1.9	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 2.5
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	< 0.77	< 1.5	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 1.5
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	< 3.4	< 6.8	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 5.5 U	< 2.7
Benzene	0.5	5	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.15	< 0.089	< 0.18	< 0.089	< 0.089	< 0.089	< 0.089	< 0.089	< 0.089	< 0.089	< 0.25
Bromodichloromethane	0.06	0.6	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.37	< 0.077	< 0.15	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.36
Bromoform	0.44	4.4	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.48	< 0.088	< 0.18	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 4.0
Bromomethane	1	10	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.80	< 0.59	< 1.2	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.97
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	< 0.053	< 0.11	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.37
Carbon tetrachloride	0.5	5	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.38	< 0.038	< 0.076	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.17
Chloroform	0.6	6	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.37	< 0.062	< 0.12	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 1.3
Chloromethane	3	30	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.32	< 0.16	< 0.32	< 0.16	0.60 BJ	0.55 BJ	< 0.16	0.4 J	< 0.16	< 0.59 U	< 2.2
cis-1,2-Dichloroethene	7	70	1.9	1.2	< 0.12	< 0.12	1.4	1.4	1.2	1.2	1.2	1.4	1.4	1.7	1.5 B	1.5	1.8	2.2	2.0	2.4
Dichlorodifluoromethane	200	1000	< 0.2	< 0.2	< 0.2 *	< 0.2	< 0.20	< 0.20	< 0.20	< 0.54	< 0.11	< 0.22	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.50
Ethylbenzene	140	700	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.18	< 0.054	< 0.11	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.22
Isopropylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.39	< 0.081	< 0.16	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.39
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	< 0.057	< 0.11	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	0.060 J	< 0.057	< 0.47
Methyl tert-butyl ether	12	60	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.39	< 0.14	< 0.28	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 1.2
Methylene chloride	0.5	5	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 1.6	0.35 J	< 0.28	< 0.14	< 0.14	0.27 BJ	< 0.14	< 0.14	0.24 J	< 0.25 U	< 0.58
Naphthalene	10	100	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.34	< 0.088	< 0.18	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 1.2
n-Butylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.39	< 0.14	< 0.28	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.71
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	< 0.42	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 1.7
n-Propylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.41	< 0.10	< 0.20	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	< 0.10	< 0.10	< 0.81
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	< 0.058	< 0.12	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.26
p-Isopropyltoluene	NE	NE	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.36	< 0.085	< 0.17	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.80
sec-Butylbenzene	NE	NE	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.40	< 0.13	< 0.26	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.85
Styrene	10	100	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.39	< 0.065	< 0.13	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.47
tert-Butylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.40	< 0.12	< 0.24	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.30
Tetrachloroethene	0.5	5	***14***	***11***	***23***	***37***	***38***	***35***	***27***	***33***	***30***	***28***	***35***	***29***	***26***	***37***	***30***	***38***	***28***	***37.8***
Toluene	160	800	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.15	< 0.053	< 0.11	< 0.053	< 0.053	0.14 BJ	< 0.053	< 0.053	0.060 J	< 0.053	< 0.17
trans-1,2-Dichloroethene	20	100	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.35	< 0.11	< 0.22	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 1.1
Trichloroethene	0.5	5	***2.1***	***2***	***3***	***6.1***	***6.1***	***6.9***	***5.3***	***5.7***	***5.1***	***5***	***5.9***	***6.1***	***5.2***	***6.4***	***6.3***	***8.2***	***6.1***	***7.9***
Trichlorofluoromethane	698	3490	< 0.19	< 0.19	< 0.19	< 0.19	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.5	< 0.5	< 0.13	< 0.21
Vinyl chloride	0.02	0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.20	< 0.16	< 0.32	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.17
Xylenes, Total	400	2000	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.22	< 0.058	< 0.12	< 0.058	< 0.058	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 1.5
Total PCBs																				
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																				
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																				
Total Dissolved Solids (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MP-16	MP-16	MP-16	MP-16	MP-16	MP-16	MP-16	MP-16	MP-16	MP-16	MP-16
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	175 - 179 ft	175 - 179 ft	175 - 179 ft	175 - 179 ft	175 - 179 ft	175 - 179 ft	175 - 179 ft	175 - 179 ft	175 - 179 ft	175 - 179 ft	175 - 179 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	01/22/2013	04/16/2013	07/23/2013	10/09/2013	04/15/2014	10/16/2014	04/13/2015	10/15/2015	10/11/2016	10/02/2017	10/08/2018
VOCs													
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.46	< 0.11	< 0.11	< 0.11
1,1,1-Trichloroethane	40	200	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.38	< 0.10	< 0.1	< 0.10
1,1,2-Trichloroethane	0.5	5	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.35	< 0.10	< 0.1	< 0.10
1,1-Dichloroethene	0.7	7	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.39	< 0.14	< 0.14	< 0.14
1,2,4-Trimethylbenzene	96	480	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.36	< 0.060	< 0.06	< 0.060
1,2-Dibromoethane	0.005	0.05	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.39	< 0.13	< 0.13	< 0.13
1,2-Dichlorobenzene	60	600	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.33	< 0.076	< 0.076	< 0.076
1,2-Dichloropropane	0.5	5	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.43	< 0.10	< 0.1	< 0.10
1,2,3-Trichlorobenzene	NE	NE	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.045	< 0.045	< 0.045
1,2,4-Trichlorobenzene	14	70	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.34	< 0.077	< 0.077	< 0.077
1,3,5-Trimethylbenzene	96	480	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.25	< 0.075	< 0.075	< 0.075
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	< 3.0	< 3	< 3.0
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	< 0.95	< 0.95	< 0.95
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	< 0.77	< 0.77	< 0.77
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	< 3.4	< 3.4	< 3.8 U
Benzene	0.5	5	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.15	< 0.089	< 0.089	< 0.089
Bromodichloromethane	0.06	0.6	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.37	< 0.077	< 0.077	< 0.077
Bromoform	0.44	4.4	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.48	< 0.088	< 0.088	< 0.088
Bromomethane	1	10	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.80	< 0.59	< 0.59	< 0.59
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	< 0.053	< 0.053	0.11 J
Carbon tetrachloride	0.5	5	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.38	< 0.038	< 0.038	< 0.038
Chloroform	0.6	6	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.37	< 0.062	< 0.062	< 0.062
Chloromethane	3	30	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.32	< 0.16	0.81 J	< 0.61 U
cis-1,2-Dichloroethene	7	70	1.9	0.99 J	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.41	< 0.11	< 0.11	< 0.11
Dichlorodifluoromethane	200	1000	< 0.2	< 0.2	< 0.2 *	< 0.2	< 0.20	< 0.20	< 0.20	< 0.54	< 0.11	< 0.11	< 0.11
Ethylbenzene	140	700	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.18	< 0.054	< 0.054	< 0.054
Isopropylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.39	< 0.081	< 0.081	< 0.081
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	< 0.057	< 0.057	< 0.057
Methyl tert-butyl ether	12	60	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.39	< 0.14	< 0.14	< 0.14
Methylene chloride	0.5	5	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 1.6	< 0.14	0.16 J	< 0.15 U
Naphthalene	10	100	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.34	< 0.088	< 0.088	< 0.088
n-Butylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.39	< 0.14	< 0.14	< 0.14
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	< 0.21	< 0.21
n-Propylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.41	< 0.10	< 0.1	< 0.10
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	< 0.058	< 0.058	< 0.058
p-Isopropyltoluene	NE	NE	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.36	< 0.085	< 0.085	< 0.085
sec-Butylbenzene	NE	NE	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.40	< 0.13	< 0.13	< 0.13
Styrene	10	100	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.39	< 0.065	0.07 BJ	< 0.065
tert-Butylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.40	< 0.12	< 0.12	< 0.12
Tetrachloroethene	0.5	5	***13***	***6.7***	***2.2***	***3.7***	***3.8***	***4.8***	***4.2***	***2.7***	***3.1***	***4.2***	***2.5***
Toluene	160	800	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.15	0.080 J	< 0.053	< 0.053
trans-1,2-Dichloroethene	20	100	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.35	< 0.11	< 0.11	< 0.11
Trichloroethene	0.5	5	***2.2***	***1.2***	0.42 J	***0.98***	***0.87***	***0.98***	***0.69***	0.42 J	***0.54***	***0.64***	0.40 J
Trichlorofluoromethane	698	3490	< 0.19	< 0.19	< 0.19	< 0.19	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 0.5	< 0.13
Vinyl chloride	0.02	0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.20	< 0.16	< 0.16	< 0.16
Xylenes, Total	400	2000	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.22	< 0.058	< 0.12	< 0.12
Total PCBs													
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs													
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids													
Total Dissolved Solids (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	01/17/2013	04/20/2013	07/18/2013	10/08/2013	04/22/2014	10/22/2014	04/15/2015	10/22/2015	01/22/2016	04/20/2016	07/19/2016	10/12/2016	1/20/2017	04/12/2017	10/09/2017	04/04/2018	10/15/2018	04/11/2019
VOCs																				
1,1,1,2-Tetrachloroethane	7	70	< 0.5	< 0.5	< 0.25	< 0.5	< 0.50	< 0.50	< 1.3	< 0.92	< 5.5	< 11	< 2.8	< 2.2	< 5.5	< 5.5	< 2.8	< 2.8	< 5.5	< 2.7
1,1,1-Trichloroethane	40	200	< 0.4	< 0.4	< 0.2	< 0.4	< 0.40	< 0.40	< 1.0	< 0.76	< 5.0	< 10	< 2.5	< 2.0	< 5.0	< 5.0	< 2.5	< 2.5	< 5.0	< 2.4
1,1,2-Trichloroethane	0.5	5	< 0.56	***11***	< 0.28	< 0.56	< 0.56	< 0.56	< 1.4	< 0.70	< 5.0	< 10	< 2.5	< 2.0	< 5.0	< 5.0	< 2.5	< 2.5	< 5.0	< 5.5
1,1-Dichloroethene	0.7	7	< 0.62	< 0.62	< 0.31	< 0.62	< 0.62	< 0.62	< 1.6	< 0.78	< 7.0	< 14	< 3.5	< 2.8	< 7.0	< 7.0	< 3.5	< 3.5	< 7.0	< 2.4
1,2,4-Trimethylbenzene	96	480	< 0.28	< 0.28	< 0.14	< 0.28	< 0.28	< 0.28	< 0.70	< 0.72	< 3.0	< 6.0	< 1.5	< 1.2	< 3.0	< 3.0	< 1.5	< 1.5	< 3.0	< 8.4
1,2-Dibromoethane	0.005	0.05	< 0.72	< 0.72	< 0.36	< 0.72	< 0.72	< 0.72	< 1.8	< 0.77	< 6.5	< 13	< 3.3	< 2.6	< 6.5	< 6.5	< 3.3	< 3.3	< 6.5	< 8.3
1,2-Dichlorobenzene	60	600	< 0.54	< 0.54	< 0.27	< 0.54	< 0.54	< 0.54	< 1.4	< 0.67	< 3.8	< 7.6	< 1.9	< 1.5	< 3.8	< 3.8	< 1.9	< 1.9	< 3.8	< 7.1
1,2-Dichloropropane	0.5	5	< 0.4	< 0.4	< 0.2	< 0.4	< 0.40	< 0.40	< 1.0	< 0.86	< 5.0	< 10	< 2.5	< 2.0	< 5.0	< 5.0	< 2.5	< 2.5	< 5.0	< 2.8
1,2,3-Trichlorobenzene	NE	NE	< 0.48	< 0.48	< 0.24	< 0.48	< 0.48	< 0.48	< 1.2	< 0.92	< 2.3	< 4.5	< 1.1	< 0.90	< 2.3	< 2.3	< 1.1	< 1.1	< 2.3	< 6.3
1,2,4-Trichlorobenzene	14	70	< 0.62	< 0.62	< 0.31	< 0.62	< 0.62	< 0.62	< 1.6	< 0.68	< 3.9	< 7.7	< 1.9	< 1.5	< 3.9	< 3.9	< 1.9	< 1.9	< 3.9	< 9.5
1,3,5-Trimethylbenzene	96	480	< 0.36	< 0.36	< 0.18	< 0.36	< 0.36	< 0.36	< 0.90	< 0.51	< 3.8	< 7.5	< 1.9	< 1.5	< 3.8	< 3.8	< 1.9	< 1.9	< 3.8	< 8.7
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	< 150	< 300	< 75	< 60	< 150	< 150	< 75	< 75	< 150	< 29.4
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	< 48	< 95	< 24	< 19	< 48	< 48	< 24	< 24	< 48	< 24.6
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	< 39	< 77	< 19	< 15	< 39	< 39	< 19	< 19	< 39	< 15.3
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	< 170	< 340	< 85	< 68	< 170	< 170	< 85	< 85	< 170	< 27.4
Benzene	0.5	5	***20***	***1.2***	< 0.074	< 0.15	< 0.15	< 0.15	< 0.37	< 0.29	< 4.5	< 8.9	< 2.2	< 1.8	< 4.5	< 4.5	< 2.2	< 2.2	< 4.5	< 2.5
Bromodichloromethane	0.06	0.6	< 0.34	< 0.34	< 0.17	< 0.34	< 0.34	< 0.34	< 0.85	< 0.74	< 3.9	< 7.7	< 1.9	< 1.5	< 3.9	< 3.9	< 1.9	< 1.9	< 3.9	< 3.6
Bromoform	0.44	4.4	< 0.56	< 0.56	< 0.28	< 0.56	< 0.56	< 0.56	< 1.4	< 0.97	< 4.4	< 8.8	< 2.2	< 1.8	< 4.4	< 4.4	< 2.2	< 2.2	< 4.4	< 39.7
Bromomethane	1	10	< 0.62	< 0.62	< 0.31	< 0.62	< 0.62	< 0.62	< 1.6	< 1.6	< 30	< 59	< 15	< 12	< 30	< 30	< 15	< 15	< 30	< 9.7
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	< 2.7	< 5.3	< 1.3	< 1.1	< 2.7	18 J	< 1.3	< 1.3	< 2.7	< 3.7
Carbon tetrachloride	0.5	5	***1.2 J***	< 0.52	< 0.26	< 0.52	< 0.52	< 0.52	< 1.3	< 0.77	< 1.9	< 3.8	< 0.95	< 0.76	< 1.9	< 1.9	< 0.95	< 0.95	< 1.9	< 1.7
Chloroform	0.6	6	***1.8 J***	< 0.4	***0.86 J***	< 0.4	***1.1 J***	***1.5 J***	< 1.0	***2.8***	***3.5 J***	***14 BJ***	***3.5 J***	***4.2 J***	***6.5 BJ***	***13 J***	***4.5 J***	***3.0 J***	< 7.0 U	< 12.7
Chloromethane	3	30	< 0.36	< 0.36	< 0.18	< 0.36	< 0.36	< 0.36	< 0.90	< 0.64	< 8.0	< 16	< 4.0	***15 BJ***	< 8.0	***22 J+***	***9.3 J***	< 4	< 19 U	< 21.9
cis-1,2-Dichloroethene	7	70	3.5	1.7 J	1.6	< 0.24	2.7	3.4	5.3	5.9	***7.5 J***	< 11	***8.8 J***	4.8 J	< 5.5	< 5.5	5.3 J	5.8 J	< 5.5	5.5 J
Dichlorodifluoromethane	200	1000	< 0.4	< 0.4	< 0.2	< 0.4	< 0.40	< 0.40	< 1.0	< 1.1	< 5.5	< 11	3.0 J	< 2.2	< 5.5	< 5.5	< 2.8	< 2.8	< 5.5	< 5.0
Ethylbenzene	140	700	< 0.26	< 0.26	< 0.13	< 0.26	< 0.26	< 0.26	< 0.65	< 0.37	< 2.7	< 5.4	< 1.4	< 1.1	< 2.7	< 2.7	< 1.4	< 1.4	< 2.7	< 2.2
Isopropylbenzene	NE	NE	< 0.28	< 0.28	< 0.14	< 0.28	< 0.28	< 0.28	< 0.70	< 0.77	< 4.1	< 8.1	< 2.0	< 1.6	< 4.1	< 4.1	< 2	< 2.0	< 4.1	< 3.9
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	< 2.9	< 5.7	< 1.4	< 1.1	< 2.9	< 2.9	< 1.4	< 1.4	< 2.9	< 4.7
Methyl tert-butyl ether	12	60	< 0.48	< 0.48	< 0.24	< 0.48	< 0.48	< 0.48	< 1.2	< 0.79	< 7.0	< 14	< 3.5	< 2.8	< 7.0	< 7.0	< 3.5	< 3.5	< 7.0	< 12.5
Methylene chloride	0.5	5	< 1.4	< 1.4	< 0.68	< 1.4	< 1.4	< 1.4	< 3.4	< 3.3	< 7.0	< 14	***6.5 BJ***	< 2.8	< 7.0	< 7.0	< 3.5	< 3.5	< 7.0	< 5.8
Naphthalene	10	100	< 0.32	< 0.32	< 0.16	< 0.32	< 0.32	< 0.32	< 0.80	< 0.67	< 4.4	< 8.8	< 2.2	< 1.8	< 4.4	< 4.4	2.8 BJ	< 2.2	< 4.4	< 11.8
n-Butylbenzene	NE	NE	< 0.26	< 0.26	< 0.13	< 0.26	< 0.26	< 0.26	< 0.65	< 0.78	< 7.0	< 14	< 3.5	< 2.8	< 7.0	< 7.0	< 3.5	< 3.5	< 7.0	< 7.1
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	< 11	< 21	< 5.3	< 4.2	< 11	< 11	< 5.3	< 5.3	< 11	< 17.1
n-Propylbenzene	NE	NE	< 0.26	< 0.26	< 0.13	< 0.26	< 0.26	< 0.26	< 0.65	< 0.83	< 5.0	< 10	< 2.5	< 2.0	< 5.0	< 5.0	< 2.5	< 2.5	< 5.0	< 8.1
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	< 2.9	< 5.8	< 1.5	< 1.2	< 2.9	< 2.9	< 1.5	< 1.5	< 2.9	< 2.6
p-Isopropyltoluene	NE	NE	< 0.34	< 0.34	< 0.17	< 0.34	< 0.34	< 0.34	< 0.85	< 0.72	< 4.3	< 8.5	< 2.1	< 1.7	< 4.3	< 4.3	< 2.1	< 2.1	< 4.3	< 8.0
sec-Butylbenzene	NE	NE	< 0.3	< 0.3	< 0.15	< 0.3	< 0.30	< 0.30	< 0.75	< 0.80	< 6.5	< 13	< 3.3	< 2.6	< 6.5	< 6.5	< 3.3	< 3.3	< 6.5	< 8.5
Styrene	10	100	< 0.2	< 0.2	< 0.1	< 0.2	< 0.20	< 0.20	< 0.50	< 0.77	< 3.3	< 6.5	< 1.6	< 1.3	< 3.3	< 3.3	1.8 J	< 1.6	< 3.3	< 4.7
tert-Butylbenzene	NE	NE	< 0.28	< 0.28	< 0.14	< 0.28	< 0.28	< 0.28	< 0.70	< 0.80	< 6.0	< 12	< 3.0	< 2.4	< 6.0	< 6.0	< 3	< 3.0	< 6.0	< 3.0
Tetrachloroethene	0.5	5	***1300***	***790***	***470***	***800***	***970***	***920***	***980***	***860***	***1200***	***1100***	***950***	***970***	***1000***	***680***	***790 B***	***870***	***880***	***831***
Toluene	160	800	1.8	< 0.22	0.69	< 0.22	< 0.22	< 0.22	< 0.55	< 0.30	< 2.7	< 5.3	< 1.3	< 1.1	7.0 BJ	6.5 J	< 1.3	1.3	< 2.7	< 1.7
trans-1,2-Dichloroethene	20	100	1.5 J	< 0.5	0.68 J	< 0.5	< 0.50	< 0.50	< 1.3	1.0 J	< 5.5	< 11	< 2.8	< 2.2	< 5.5	< 5.5	< 2.8	< 2.8	< 5.5	< 10.9
Trichloroethene	0.5	5	***86***	***46***	***33***	***49***	***51***	***55***	***67***	***63***	***80***	***69***	***66***	***68***	***59 B***	***52***	***59***	***64***	***63***	***67.6***
Trichlorofluoromethane	698	3490	< 0.38	< 0.38	< 0.19	< 0.38	< 2.0	< 2.0	< 5.0	< 2.0	< 25	< 50	< 13	< 10	< 25	< 25	< 13	< 13	< 6.5	< 2.1
Vinyl chloride	0.02	0.2	< 0.2	< 0.2	< 0.1	< 0.2	< 0.20	< 0.20	< 0.50	< 0.41	< 8.0	< 16	< 4.0	< 3.2	< 8.0	< 8.0	< 4	< 4.0	< 8.0	< 1.7
Xylenes, Total	400	2000	3.1	< 0.14	0.56 J	< 0.14	< 0.14	< 0.14	< 0.34	< 0.44	< 2.9	< 5.8	< 1.5	< 1.2	< 5.8	< 5.8	< 2.9	< 2.9	< 5.8	< 15.0
Total PCBs																				
Aroclor-1016	0.003	0.03	< 0.17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	< 0.093	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	< 0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	< 0.11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																				
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																				
Total Dissolved Solids (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-18S	MW-18S	MW-18S	MW-18S	MW-18S	MW-18S	MW-18S	MW-18S	MW-18S	MW-18S	MW-18S	MW-18S	MW-18S	MW-18S	MW-18S	MW-18S	MW-18S
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	20 - 30 ft	20 - 30 ft	20 - 30 ft	20 - 30 ft	20 - 30 ft	20 - 30 ft	20 - 30 ft	20 - 30 ft	20 - 30 ft	20 - 30 ft	20 - 30 ft	20 - 30 ft	20 - 30 ft	20 - 30 ft	20 - 30 ft	20 - 30 ft	20 - 30 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	11/28/2012	12/18/2012	12/19/2012	12/28/2012	01/03/2013	01/15/2013	01/15/2013	01/31/2013	02/12/2013	02/12/2013	02/28/2013	03/12/2013	04/19/2013	07/17/2013	10/09/2013	04/22/2014	10/23/2014
VOCs																			
1,1,1,2-Tetrachloroethane	7	70	< 1.3	NA	NA	NA	NA	NA	< 0.25	NA	NA	< 0.5	NA	< 1.3	< 1.3	< 1.3	< 1.3	< 0.25	< 0.25
1,1,1-Trichloroethane	40	200	< 1	NA	NA	NA	NA	NA	< 0.2	NA	NA	< 0.4	NA	< 1	< 1	< 1	< 1	< 0.20	< 0.20
1,1,2-Trichloroethane	0.5	5	< 1.4	NA	NA	NA	NA	NA	< 0.28	NA	NA	< 0.56	NA	< 1.4	< 1.4	< 1.4	< 1.4	< 0.28	< 0.28
1,1-Dichloroethene	0.7	7	< 1.6	NA	NA	NA	NA	NA	< 0.31	NA	NA	< 0.62	NA	< 1.6	< 1.6	< 1.6	< 1.6	< 0.31	< 0.31
1,2,4-Trimethylbenzene	96	480	< 0.7	NA	NA	NA	NA	NA	< 0.14	NA	NA	< 0.28	NA	< 0.7	< 0.7	< 0.7	< 0.7	< 0.14	< 0.14
1,2-Dibromoethane	0.005	0.05	< 1.8	NA	NA	NA	NA	NA	< 0.36	NA	NA	< 0.72	NA	< 1.8	< 1.8	< 1.8	< 1.8	< 0.36	< 0.36
1,2-Dichlorobenzene	60	600	< 1.4	NA	NA	NA	NA	NA	< 0.27	NA	NA	< 0.54	NA	< 1.4	< 1.4	< 1.4	< 1.4	< 0.27	< 0.27
1,2-Dichloropropane	0.5	5	< 1	NA	NA	NA	NA	NA	< 0.2	NA	NA	< 0.4	NA	< 1	< 1	< 1	< 1	< 0.20	< 0.20
1,2,3-Trichlorobenzene	NE	NE	< 1.2	NA	NA	NA	NA	NA	< 0.24	NA	NA	< 0.48	NA	< 1.2	< 1.2	< 1.2	< 1.2	< 0.24	< 0.24
1,2,4-Trichlorobenzene	14	70	< 1.6	NA	NA	NA	NA	NA	< 0.31	NA	NA	< 0.62	NA	< 1.6	< 1.6	< 1.6	< 1.6	< 0.31	< 0.31
1,3,5-Trimethylbenzene	96	480	< 0.9	NA	NA	NA	NA	NA	< 0.18	NA	NA	< 0.36	NA	< 0.9	< 0.9	< 0.9	< 0.9	< 0.18	< 0.18
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	0.5	5	***3.2***	NA	NA	NA	NA	NA	0.46 J	NA	NA	***1.4***	NA	***1.9 J***	***2.2 J***	< 0.37	***1.3 J***	0.38 J	0.46 J
Bromodichloromethane	0.06	0.6	< 0.85	NA	NA	NA	NA	NA	< 0.17	NA	NA	< 0.34	NA	< 0.85	< 0.85	< 0.85	< 0.85	< 0.17	< 0.17
Bromoform	0.44	4.4	< 1.4	NA	NA	NA	NA	NA	< 0.28	NA	NA	< 0.56	NA	< 1.4	< 1.4	< 1.4	< 1.4	< 0.28	< 0.28
Bromomethane	1	10	< 1.6	NA	NA	NA	NA	NA	< 0.31	NA	NA	< 0.62	NA	< 1.6	< 1.6	< 1.6	< 1.6	< 0.31	< 0.31
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.5	5	< 1.3	NA	NA	NA	NA	NA	< 0.26	NA	NA	< 0.52	NA	< 1.3	< 1.3	< 1.3	< 1.3	< 0.26	< 0.26
Chloroform	0.6	6	***7.2***	NA	NA	NA	NA	NA	***2.3***	NA	NA	***4.5***	NA	***7.5***	***6.2***	< 1	***5.2***	***1.4***	***2***
Chloromethane	3	30	< 0.9	NA	NA	NA	NA	NA	< 0.18	NA	NA	< 0.36	NA	< 0.9	< 0.9	< 0.9	< 0.9	< 0.18	< 0.18
cis-1,2-Dichloroethene	7	70	***150***	NA	NA	NA	NA	NA	***40***	NA	NA	***77***	NA	***110***	***99***	***70***	***78***	***21***	***26***
Dichlorodifluoromethane	200	1000	< 1	NA	NA	NA	NA	NA	< 0.2	NA	NA	< 0.4	NA	< 1	< 1	< 1	< 1	< 0.20	< 0.20
Ethylbenzene	140	700	< 0.65	NA	NA	NA	NA	NA	< 0.13	NA	NA	< 0.26	NA	< 0.65	< 0.65	< 0.65	< 0.65	< 0.13	< 0.13
Isopropylbenzene	NE	NE	< 0.7	NA	NA	NA	NA	NA	< 0.14	NA	NA	< 0.28	NA	< 0.7	< 0.7	< 0.7	< 0.7	< 0.14	< 0.14
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	12	60	< 1.2	NA	NA	NA	NA	NA	< 0.24	NA	NA	< 0.48	NA	< 1.2	< 1.2	< 1.2	< 1.2	< 0.24	< 0.24
Methylene chloride	0.5	5	< 3.4	NA	NA	NA	NA	NA	< 0.68	NA	NA	< 1.4	NA	< 3.4	< 3.4	< 3.4	< 3.4	< 0.68	< 0.68
Naphthalene	10	100	< 0.8	NA	NA	NA	NA	NA	< 0.16	NA	NA	< 0.32	NA	< 0.8	< 0.8	< 0.8	< 0.8	< 0.16	< 0.16
n-Butylbenzene	NE	NE	< 0.65	NA	NA	NA	NA	NA	< 0.13	NA	NA	< 0.26	NA	< 0.65	< 0.65	< 0.65	< 0.65	< 0.13	< 0.13
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	NE	NE	< 0.65	NA	NA	NA	NA	NA	< 0.13	NA	NA	< 0.26	NA	< 0.65	< 0.65	< 0.65	< 0.65	< 0.13	< 0.13
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	NE	NE	< 0.85	NA	NA	NA	NA	NA	< 0.17	NA	NA	< 0.34	NA	< 0.85	< 0.85	< 0.85	< 0.85	< 0.17	< 0.17
sec-Butylbenzene	NE	NE	< 0.75	NA	NA	NA	NA	NA	< 0.15	NA	NA	< 0.3	NA	< 0.75	< 0.75	< 0.75	< 0.75	< 0.15	< 0.15
Styrene	10	100	< 0.5	NA	NA	NA	NA	NA	< 0.1	NA	NA	< 0.2	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.10	< 0.10
tert-Butylbenzene	NE	NE	< 0.7	NA	NA	NA	NA	NA	< 0.14	NA	NA	< 0.28	NA	< 0.7	< 0.7	< 0.7	< 0.7	< 0.14	< 0.14
Tetrachloroethene	0.5	5	***3300***	NA	NA	NA	NA	NA	***690***	NA	NA	***1900***	NA	***2600***	***2600***	***2900***	***1800***	***520***	***520***
Toluene	160	800	1.1 J	NA	NA	NA	NA	NA	< 0.11	NA	NA	< 0.22	NA	< 0.55	< 0.55	< 0.55	< 0.55	< 0.11	< 0.11
trans-1,2-Dichloroethene	20	100	7.4	NA	NA	NA	NA	NA	2.6	NA	NA	3.8	NA	5.3	4.1 J	2.6 J	4.6 J	1.3	1.9
Trichloroethene	0.5	5	***230***	NA	NA	NA	NA	NA	***59***	NA	NA	***130***	NA	***160***	***170***	***140***	***150***	***43***	***65***
Trichlorofluoromethane	698	3490	< 0.95	NA	NA	NA	NA	NA	< 0.19	NA	NA	< 0.38	NA	< 0.95	< 0.95	< 0.95	< 0.95	< 1.0	< 1.0
Vinyl chloride	0.02	0.2	< 0.5	NA	NA	NA	NA	NA	< 0.1	NA	NA	< 0.2	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.10	< 0.10
Xylenes, Total	400	2000	< 0.34	NA	NA	NA	NA	NA	< 0.068	NA	NA	< 0.14	NA	< 0.34	< 0.34	< 0.34	< 0.34	< 0.068	< 0.068
Total PCBs																			
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																			
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																			
Total Dissolved Solids (mg/L)	NE	NE	3300	1700	4800	4300	3900	3200	2700	2800	20000	12000	15000	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-19D	MW-19D	MW-19D	MW-19D	MW-19D	MW-19D	MW-19D	MW-19D	MW-19D	MW-19D	MW-19D	MW-19D	MW-19D	MW-19D	MW-19D[1]	MW-19D	MW-19D[1]	MW-19D	MW-19D	MW-19D	MW-19D[1]	MW-19D
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	11/29/2012	12/11/2012	12/12/2012	12/13/2012	12/14/2012	12/15/2012	12/16/2012	12/17/2012	12/18/2012	12/19/2012	12/27/2012	01/02/2013	01/16/2013	01/16/2013	01/30/2013	02/11/2013	02/28/2013	03/11/2013	04/19/2013	07/17/2013	10/09/2013	04/17/2014	10/21/2014
VOCs																								
1,1,1,2-Tetrachloroethane	7	70	< 1.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.3	NA	< 1.3	NA	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 0.50
1,1,1-Trichloroethane	40	200	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1	NA	< 1	NA	< 1	< 1	< 1	< 1	< 1.0	< 0.40
1,1,2-Trichloroethane	0.5	5	< 1.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.4	NA	< 1.4	NA	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 0.56
1,1-Dichloroethene	0.7	7	< 1.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.6	NA	< 1.6	NA	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 0.62
1,2,4-Trimethylbenzene	96	480	< 0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.7	NA	< 0.7	NA	< 0.7	< 0.7	< 0.7	< 0.7	< 0.70	< 0.28
1,2-Dibromoethane	0.005	0.05	< 1.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.8	NA	< 1.8	NA	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 0.72
1,2-Dichlorobenzene	60	600	< 1.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.4	NA	< 1.4	NA	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 0.54
1,2-Dichloropropane	0.5	5	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1	NA	< 1	NA	< 1	< 1	< 1	< 1	< 1.0	< 0.40
1,2,3-Trichlorobenzene	NE	NE	< 1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.2	NA	< 1.2	NA	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 0.48
1,2,4-Trichlorobenzene	14	70	< 1.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.6	NA	< 1.6	NA	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 0.62
1,3,5-Trimethylbenzene	96	480	< 0.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.9	NA	< 0.9	NA	< 0.9	< 0.9	< 0.9	< 0.9	< 0.90	< 0.36
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	0.5	5	< 0.37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.37	NA	< 0.37	NA	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.15
Bromodichloromethane	0.06	0.6	< 0.85	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.85	NA	< 0.85	NA	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.34
Bromoform	0.44	4.4	< 1.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.4	NA	< 1.4	NA	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 0.56
Bromomethane	1	10	< 1.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.6	NA	< 1.6 *	NA	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 0.62
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.5	5	< 1.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.3	NA	< 1.3	NA	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 0.52
Chloroform	0.6	6	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1	NA	< 1	NA	< 1	< 1	< 1	< 1	< 1.0	< 0.40
Chloromethane	3	30	< 0.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.9	NA	< 0.9	NA	< 0.9	< 0.9	< 0.9	< 0.9	< 0.90	< 0.36
cis-1,2-Dichloroethene	7	70	***530***	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	***170***	NA	***450***	NA	***420***	***520***	***540***	***300***	***49***	***240***
Dichlorodifluoromethane	200	1000	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1	NA	< 1	NA	< 1	< 1	< 1	< 1	< 1.0	< 0.40
Ethylbenzene	140	700	< 0.65	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.65	NA	< 0.65	NA	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.26
Isopropylbenzene	NE	NE	< 0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.7	NA	< 0.7	NA	< 0.7	< 0.7	< 0.7	< 0.7	< 0.70	< 0.28
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	12	60	< 1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.2	NA	< 1.2	NA	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 0.48
Methylene chloride	0.5	5	< 3.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.4	NA	< 3.4	NA	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 1.4
Naphthalene	10	100	< 0.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	< 0.8	NA	< 0.8	< 0.8	< 0.8	< 0.8	< 0.80	< 0.32
n-Butylbenzene	NE	NE	< 0.65	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.65	NA	< 0.65	NA	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.26
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	NE	NE	< 0.65	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.65	NA	< 0.65	NA	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.26
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	NE	NE	< 0.85	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.85	NA	< 0.85	NA	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.34
sec-Butylbenzene	NE	NE	< 0.75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.75	NA	< 0.75	NA	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.30
Styrene	10	100	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.5	NA	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	< 0.20
tert-Butylbenzene	NE	NE	< 0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.7	NA	< 0.7	NA	< 0.7	< 0.7	< 0.7	< 0.7	< 0.70	< 0.28
Tetrachloroethene	0.5	5	***2400***	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	***1700***	NA	***2700***	NA	***2100***	***2200***	***2700***	***1500***	***1400***	***1500***
Toluene	160	800	< 0.55	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.55	NA	< 0.55	NA	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.22
trans-1,2-Dichloroethene	20	100	7.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.3	NA	4.4 J	NA	5.1	6.3	8.1	4.1 J	< 1.3	3.1
Trichloroethene	0.5	5	***230***	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	***69***	NA	***180***	NA	***180***	***200***	***240***	***150***	***68***	***140***
Trichlorofluoromethane	698	3490	< 0.95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.95	NA	< 0.95	NA	< 0.95	< 0.95	< 0.95	< 0.95	< 5.0	< 2.0
Vinyl chloride	0.02	0.2	***9.1***	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	***3.2***	NA	***8***	NA	***11***	***18***	***20***	***6.6***	< 0.50	***4.5***
Xylenes, Total	400	2000	< 0.34	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.34	NA	< 0.34	NA	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.14
Total PCBs																									
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																									
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																									
Total Dissolved Solids (mg/L)	NE	NE	910	1100	1400	1300	1300	1200	1100	1100	1000	1100	1000	990	1100	1100	1000	NA	1100	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-19D2	MW-19D2	MW-19D2	MW-19D2	MW-19D2	MW-19D2	MW-19D2	MW-19D2	MW-19D2	MW-19D2	MW-19D2	MW-19D2	MW-19D2	MW-19D2	MW-19D2[2]	MW-19D2[1]	MW-19D2	MW-19D2	MW-19D2[1]
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	11/29/2012	12/16/2012	12/17/2012	12/18/2012	12/19/2012	12/27/2012	01/02/2013	01/17/2013	01/17/2013	01/31/2013	02/11/2013	02/28/2013	03/12/2013	04/18/2013	07/17/2013	07/17/2013	10/09/2013	04/17/2014	10/15/2014
VOCs																					
1,1,1,2-Tetrachloroethane	7	70	< 0.5	NA	NA	NA	NA	NA	NA	NA	< 0.5	NA	< 0.5	NA	< 0.5	< 1.3	< 0.5	< 0.5	< 0.5	< 1.3	< 0.50
1,1,1-Trichloroethane	40	200	< 0.4	NA	NA	NA	NA	NA	NA	NA	< 0.4	NA	< 0.4	NA	< 0.4	< 1	< 0.4	< 0.4	< 0.4	< 1.0	< 0.40
1,1,2-Trichloroethane	0.5	5	< 0.56	NA	NA	NA	NA	NA	NA	NA	< 0.56	NA	< 0.56	NA	< 0.56	< 1.4	< 0.56	< 0.56	< 0.56	< 1.4	< 0.56
1,1-Dichloroethene	0.7	7	< 0.62	NA	NA	NA	NA	NA	NA	NA	< 0.62	NA	< 0.62	NA	< 0.62	< 1.6	< 0.62	< 0.62	< 0.62	< 1.6	< 0.62
1,2,4-Trimethylbenzene	96	480	< 0.28	NA	NA	NA	NA	NA	NA	NA	< 0.28	NA	< 0.28	NA	< 0.28	< 0.7	< 0.28	< 0.28	< 0.28	< 0.70	< 0.28
1,2-Dibromoethane	0.005	0.05	< 0.72	NA	NA	NA	NA	NA	NA	NA	< 0.72	NA	< 0.72	NA	< 0.72	< 1.8	< 0.72	< 0.72	< 0.72	< 1.8	< 0.72
1,2-Dichlorobenzene	60	600	< 0.54	NA	NA	NA	NA	NA	NA	NA	< 0.54	NA	< 0.54	NA	< 0.54	< 1.4	< 0.54	< 0.54	< 0.54	< 1.4	< 0.54
1,2-Dichloropropane	0.5	5	< 0.4	NA	NA	NA	NA	NA	NA	NA	< 0.4	NA	< 0.4	NA	< 0.4	< 1	< 0.4	< 0.4	< 0.4	< 1.0	< 0.40
1,2,3-Trichlorobenzene	NE	NE	< 0.48	NA	NA	NA	NA	NA	NA	NA	< 0.48	NA	< 0.48	NA	< 0.48	< 1.2	< 0.48	< 0.48	< 0.48	< 1.2	< 0.48
1,2,4-Trichlorobenzene	14	70	< 0.62	NA	NA	NA	NA	NA	NA	NA	< 0.62	NA	< 0.62	NA	< 0.62	< 1.6	< 0.62	< 0.62	< 0.62	< 1.6	< 0.62
1,3,5-Trimethylbenzene	96	480	< 0.36	NA	NA	NA	NA	NA	NA	NA	< 0.36	NA	< 0.36	NA	< 0.36	< 0.9	< 0.36	< 0.36	< 0.36	< 0.90	< 0.36
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	0.5	5	< 0.15	NA	NA	NA	NA	NA	NA	NA	< 0.15	NA	< 0.15	NA	< 0.15	< 0.37	< 0.15	< 0.15	< 0.15	< 0.37	< 0.15
Bromodichloromethane	0.06	0.6	< 0.34	NA	NA	NA	NA	NA	NA	NA	< 0.34	NA	< 0.34	NA	< 0.34	< 0.85	< 0.34	< 0.34	< 0.34	< 0.85	< 0.34
Bromoform	0.44	4.4	< 0.56	NA	NA	NA	NA	NA	NA	NA	< 0.56	NA	< 0.56	NA	< 0.56	< 1.4	< 0.56	< 0.56	< 0.56	< 1.4	< 0.56
Bromomethane	1	10	< 0.62	NA	NA	NA	NA	NA	NA	NA	< 0.62	NA	< 0.62 *	NA	< 0.62	< 1.6	< 0.62	< 0.62	< 0.62	< 1.6	< 0.62 *
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.5	5	< 0.52	NA	NA	NA	NA	NA	NA	NA	< 0.52	NA	< 0.52	NA	< 0.52	< 1.3	< 0.52	< 0.52	< 0.52	< 1.3	< 0.52
Chloroform	0.6	6	< 0.4	NA	NA	NA	NA	NA	NA	NA	< 0.4	NA	< 0.4	NA	< 0.4	< 1	< 0.4	< 0.4	< 0.4	< 1.0	< 0.40
Chloromethane	3	30	< 0.36	NA	NA	NA	NA	NA	NA	NA	< 0.36	NA	< 0.36	NA	< 0.36	< 0.9	< 0.36	< 0.36	< 0.36	< 0.90	< 0.36
cis-1,2-Dichloroethene	7	70	***250***	NA	NA	NA	NA	NA	NA	NA	***320***	NA	***270***	NA	***260***	***200***	< 0.24	***98***	***120***	***330***	6.8
Dichlorodifluoromethane	200	1000	< 0.4	NA	NA	NA	NA	NA	NA	NA	< 0.4	NA	< 0.4	NA	< 0.4	< 1	< 0.4	< 0.4	< 0.4	< 1.0	< 0.40
Ethylbenzene	140	700	< 0.26	NA	NA	NA	NA	NA	NA	NA	< 0.26	NA	< 0.26	NA	< 0.26	< 0.65	< 0.26	< 0.26	< 0.26	< 0.65	< 0.26
Isopropylbenzene	NE	NE	< 0.28	NA	NA	NA	NA	NA	NA	NA	< 0.28	NA	< 0.28	NA	< 0.28	< 0.7	< 0.28	< 0.28	< 0.28	< 0.70	< 0.28
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	12	60	< 0.48	NA	NA	NA	NA	NA	NA	NA	< 0.48	NA	< 0.48	NA	< 0.48	< 1.2	< 0.48	< 0.48	< 0.48	< 1.2	< 0.48
Methylene chloride	0.5	5	< 1.4	NA	NA	NA	NA	NA	NA	NA	< 1.4	NA	< 1.4	NA	< 1.4	< 3.4	< 1.4	< 1.4	< 1.4	< 3.4	< 1.4
Naphthalene	10	100	< 0.32	NA	NA	NA	NA	NA	NA	NA	< 0.32	NA	< 0.32	NA	< 0.32	< 0.8	< 0.32	< 0.32	< 0.32	< 0.80	< 0.32
n-Butylbenzene	NE	NE	< 0.26	NA	NA	NA	NA	NA	NA	NA	< 0.26	NA	< 0.26	NA	< 0.26	< 0.65	< 0.26	< 0.26	< 0.26	< 0.65	< 0.26
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	NE	NE	< 0.26	NA	NA	NA	NA	NA	NA	NA	< 0.26	NA	< 0.26	NA	< 0.26	< 0.65	< 0.26	< 0.26	< 0.26	< 0.65	< 0.26
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	NE	NE	< 0.34	NA	NA	NA	NA	NA	NA	NA	< 0.34	NA	< 0.34	NA	< 0.34	< 0.85	< 0.34	< 0.34	< 0.34	< 0.85	< 0.34
sec-Butylbenzene	NE	NE	< 0.3	NA	NA	NA	NA	NA	NA	NA	< 0.3	NA	< 0.3	NA	< 0.3	< 0.75	< 0.3	< 0.3	< 0.3	< 0.75	< 0.30
Styrene	10	100	< 0.2	NA	NA	NA	NA	NA	NA	NA	< 0.2	NA	< 0.2	NA	< 0.2	< 0.5	< 0.2	< 0.2	< 0.2	< 0.50	< 0.20
tert-Butylbenzene	NE	NE	< 0.28	NA	NA	NA	NA	NA	NA	NA	< 0.28	NA	< 0.28	NA	< 0.28	< 0.7	< 0.28	< 0.28	< 0.28	< 0.70	< 0.28
Tetrachloroethene	0.5	5	***680***	NA	NA	NA	NA	NA	NA	NA	***1200***	NA	***1300***	NA	***1400***	***1000***	***820***	***1200***	***950***	***1900***	***620***
Toluene	160	800	< 0.22	NA	NA	NA	NA	NA	NA	NA	< 0.22	NA	< 0.22	NA	< 0.22	< 0.55	< 0.22	< 0.22	< 0.22	< 0.55	< 0.22
trans-1,2-Dichloroethene	20	100	3.4	NA	NA	NA	NA	NA	NA	NA	4.9	NA	4.2	NA	4.2	2.6 J	< 0.5	< 0.5	< 0.5	5.0	< 0.50
Trichloroethene	0.5	5	***110***	NA	NA	NA	NA	NA	NA	NA	***160***	NA	***150***	NA	***150***	***130***	< 0.38	***110***	***120***	***170***	***11***
Trichlorofluoromethane	698	3490	< 0.38	NA	NA	NA	NA	NA	NA	NA	< 0.38	NA	< 0.38	NA	< 0.38	< 0.95	< 0.38	< 0.38	< 0.38	< 5.0	< 2.0
Vinyl chloride	0.02	0.2	***0.93 J***	NA	NA	NA	NA	NA	NA	NA	< 0.2	NA	< 0.2	NA	< 0.2	< 0.5	< 0.2	< 0.2	< 0.2	***7.9***	< 0.20
Xylenes, Total	400	2000	< 0.14	NA	NA	NA	NA	NA	NA	NA	< 0.14	NA	< 0.14	NA	< 0.14	< 0.34	< 0.14	< 0.14	< 0.14	< 0.34	< 0.14
Total PCBs																					
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																					
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																					
Total Dissolved Solids (mg/L)	NE	NE	1500	1600	1600	1500	1500	1500	1500	1400	1500	1500	1500	1500	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-20D	MW-20D	MW-20D	MW-20D	MW-20D	MW-20D	MW-20D	MW-20D	MW-20D	MW-20D	MW-20D	MW-20D	MW-20D	MW-20D	MW-20D	MW-20D	MW-20D	MW-20D[1]	MW-20D	MW-20D[1]	MW-20D[1]	MW-20D	MW-20D	MW-20D	MW-20D
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	11/29/2012	12/11/2012	12/12/2012	12/13/2012	12/14/2012	12/15/2012	12/16/2012	12/17/2012	12/18/2012	12/19/2012	12/27/2012	01/02/2013	01/16/2013	01/16/2013	01/30/2013	02/12/2013	02/12/2013	02/12/2013	02/28/2013	03/12/2013	04/18/2013	07/17/2013	10/09/2013	04/15/2014	10/22/2014
VOCs																											
1,1,1,2-Tetrachloroethane	7	70	< 1.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.25	NA	NA	NA	< 0.25	NA	< 0.25	< 1.3	< 0.5	< 1.3	< 0.50	< 0.50
1,1,1-Trichloroethane	40	200	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2	NA	NA	NA	< 0.2	NA	< 0.2	< 1	< 0.4	< 1	< 0.40	< 0.40
1,1,2-Trichloroethane	0.5	5	< 1.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.28	NA	NA	NA	< 0.28	NA	< 0.28	< 1.4	< 0.56	< 1.4	< 0.56	< 0.56
1,1-Dichloroethene	0.7	7	< 1.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.31	NA	NA	NA	< 0.31	NA	< 0.31	< 1.6	< 0.62	< 1.6	< 0.62	< 0.62
1,2,4-Trimethylbenzene	96	480	< 0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.14	NA	NA	NA	< 0.14	NA	< 0.14	< 0.7	< 0.28	< 0.7	< 0.28	< 0.28
1,2-Dibromoethane	0.005	0.05	< 1.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.36	NA	NA	NA	< 0.36	NA	< 0.36	< 1.8	< 0.72	< 1.8	< 0.72	< 0.72
1,2-Dichlorobenzene	60	600	< 1.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.27	NA	NA	NA	< 0.27	NA	< 0.27	< 1.4	< 0.54	< 1.4	< 0.54	< 0.54
1,2-Dichloropropane	0.5	5	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2	NA	NA	NA	< 0.2	NA	< 0.2	< 1	< 0.4	< 1	< 0.40	< 0.40
1,2,3-Trichlorobenzene	NE	NE	< 1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.24	NA	NA	NA	< 0.24	NA	< 0.24	< 1.2	< 0.48	< 1.2	< 0.48	< 0.48
1,2,4-Trichlorobenzene	14	70	< 1.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.31	NA	NA	NA	< 0.31	NA	< 0.31	< 1.6	< 0.62	< 1.6	< 0.62	< 0.62
1,3,5-Trimethylbenzene	96	480	< 0.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.18	NA	NA	NA	< 0.18	NA	< 0.18	< 0.9	< 0.36	< 0.9	< 0.36	< 0.36
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	0.5	5	< 0.37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.074	NA	NA	NA	< 0.074	NA	< 0.074	< 0.37	< 0.15	< 0.37	< 0.15	< 0.15
Bromodichloromethane	0.06	0.6	< 0.85	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.17	NA	NA	NA	< 0.17	NA	< 0.17	< 0.85	< 0.34	< 0.85	< 0.34	< 0.34
Bromoform	0.44	4.4	< 1.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.28	NA	NA	NA	< 0.28	NA	< 0.28	< 1.4	< 0.56	< 1.4	< 0.56	< 0.56
Bromomethane	1	10	< 1.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.31	NA	NA	NA	< 0.31	NA	< 0.31	< 1.6	< 0.62	< 1.6	< 0.62	< 0.62
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.5	5	< 1.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.26	NA	NA	NA	< 0.26	NA	< 0.26	< 1.3	< 0.52	< 1.3	< 0.52	< 0.52
Chloroform	0.6	6	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2	NA	NA	NA	< 0.2	NA	< 0.2	< 1	< 0.4	< 1	< 0.40	< 0.40
Chloromethane	3	30	< 0.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.18	NA	NA	NA	< 0.18	NA	< 0.18	< 0.9	< 0.36	< 0.9	< 0.36	< 0.36
cis-1,2-Dichloroethene	7	70	***370***	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.69 J	NA	NA	NA	***20***	NA	***39***	***220***	***180***	***170***	***140***	***200***
Dichlorodifluoromethane	200	1000	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2	NA	NA	NA	< 0.2	NA	< 0.2	< 1	< 0.4	< 1	< 0.40	< 0.40
Ethylbenzene	140	700	< 0.65	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.13	NA	NA	NA	< 0.13	NA	< 0.13	< 0.65	< 0.26	< 0.65	< 0.26	< 0.26
Isopropylbenzene	NE	NE	< 0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.14	NA	NA	NA	< 0.14	NA	< 0.14	< 0.7	< 0.28	< 0.7	< 0.28	< 0.28
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	12	60	< 1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.24	NA	NA	NA	< 0.24	NA	< 0.24	< 1.2	< 0.48	< 1.2	< 0.48	< 0.48
Methylene chloride	0.5	5	< 3.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.68	NA	NA	NA	< 0.68	NA	< 0.68	< 3.4	< 1.4	< 3.4	< 1.4	< 1.4
Naphthalene	10	100	< 0.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.16	NA	NA	NA	< 0.16	NA	< 0.16	< 0.8	< 0.32	< 0.8	< 0.32	< 0.32
n-Butylbenzene	NE	NE	< 0.65	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.13	NA	NA	NA	< 0.13	NA	< 0.13	< 0.65	< 0.26	< 0.65	< 0.26	< 0.26
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	NE	NE	< 0.65	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.13	NA	NA	NA	< 0.13	NA	< 0.13	< 0.65	< 0.26	< 0.65	< 0.26	< 0.26
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	NE	NE	< 0.85	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.17	NA	NA	NA	< 0.17	NA	< 0.17	< 0.85	< 0.34	< 0.85	< 0.34	< 0.34
sec-Butylbenzene	NE	NE	< 0.75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.15	NA	NA	NA	< 0.15	NA	< 0.15	< 0.75	< 0.3	< 0.75	< 0.30	< 0.30
Styrene	10	100	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.1	NA	NA	NA	< 0.1	NA	< 0.1	< 0.5	< 0.2	< 0.5	< 0.20	< 0.20
tert-Butylbenzene	NE	NE	< 0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.14	NA	NA	NA	< 0.14	NA	< 0.14	< 0.7	< 0.28	< 0.7	< 0.28	< 0.28
Tetrachloroethene	0.5	5	***1600***	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	***190***	NA	NA	NA	***690***	NA	***650***	***1100***	***1000***	***1200***	***780***	***1100***
Toluene	160	800	< 0.55	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.45 J	NA	NA	NA	< 0.11	NA	< 0.11	< 0.55	< 0.22	< 0.55	< 0.22	< 0.22
trans-1,2-Dichloroethene	20	100	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.25	NA	NA	NA	< 0.25	NA	< 0.25	< 1.3	2.2	< 1.3	2.0	2.6
Trichloroethene	0.5	5	***170***	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	***0.54***	NA	NA	NA	***20***	NA	***29***	***100***	***100***	***89***	***83***	***110***
Trichlorofluoromethane	698	3490	< 0.95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.19	NA	NA	NA	< 0.19	NA	< 0.19	< 0.95	< 0.38	< 0.95	< 2.0	< 2.0
Vinyl chloride	0.02	0.2	***3.2***	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.1	NA	NA	NA	< 0.1	NA	< 0.1	***1.0 J***	< 0.2	< 0.5	***0.76 J***	***2.7***
Xylenes, Total	400	2000	< 0.34	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.068	NA	NA	NA	< 0.068	NA	< 0.068	< 0.34	< 0.14	< 0.34	< 0.14	< 0.14
Total PCBs																											
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																											
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																											
Total Dissolved Solids (mg/L)	NE	NE	920	990	5000	16000	10000	4800	2500	3100	2200	1900	940	1300	900	940	880	830	840	NA	1000	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes on Page 56.

Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-20D2	MW-20D2	MW-20D2	MW-20D2	MW-20D2	MW-20D2	MW-20D2	MW-20D2	MW-20D2	MW-20D2	MW-20D2	MW-20D2	MW-20D2[1]	MW-20D2	MW-20D2	MW-20D2	MW-20D2[1,3]	MW-20D2	MW-20D2[1]	MW-20D2[1]	MW-20D2[1]	MW-20D2[1]	MW-20D2	MW-20D2[1]
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	11/29/2012	12/13/2012	12/14/2012	12/15/2012	12/16/2012	12/17/2012	12/18/2012	12/19/2012	12/27/2012	01/02/2013	01/16/2013	01/16/2013	02/12/2013	01/30/2013	02/12/2013	02/12/2013	02/12/2013	02/28/2013	03/12/2013	04/18/2013	07/17/2013	10/15/2013	04/15/2014	10/22/2014
VOCs																										
1,1,1,2-Tetrachloroethane	7	70	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.25	< 0.25	NA	NA	NA	< 0.25	NA	< 0.25	< 1.3	< 0.25	< 0.25	< 1.3	< 0.50
1,1,1-Trichloroethane	40	200	< 0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2	< 0.2	NA	NA	NA	< 0.2	NA	< 0.2	< 1	< 0.2	< 0.2	< 1.0	< 0.40
1,1,2-Trichloroethane	0.5	5	< 0.56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.28	< 0.28	NA	NA	NA	< 0.28	NA	< 0.28	< 1.4	< 0.28	< 0.28	< 1.4	< 0.56
1,1-Dichloroethene	0.7	7	< 0.62	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.31	< 0.31	NA	NA	NA	< 0.31	NA	< 0.31	< 1.6	< 0.31	< 0.31	< 1.6	< 0.62
1,2,4-Trimethylbenzene	96	480	< 0.28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.14	< 0.14	NA	NA	NA	< 0.14	NA	< 0.14	< 0.7	< 0.14	< 0.14	< 0.70	< 0.28
1,2-Dibromoethane	0.005	0.05	< 0.72	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.36	< 0.36	NA	NA	NA	< 0.36	NA	< 0.36	< 1.8	< 0.36	< 0.36	< 1.8	< 0.72
1,2-Dichlorobenzene	60	600	< 0.54	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.27	< 0.27	NA	NA	NA	< 0.27	NA	< 0.27	< 1.4	< 0.27	< 0.27	< 1.4	< 0.54
1,2-Dichloropropane	0.5	5	< 0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2	< 0.2	NA	NA	NA	< 0.2	NA	< 0.2	< 1	< 0.2	< 0.2	< 1.0	< 0.40
1,2,3-Trichlorobenzene	NE	NE	< 0.48	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.24	< 0.24	NA	NA	NA	< 0.24	NA	< 0.24	< 1.2	< 0.24	< 0.24	< 1.2	< 0.48
1,2,4-Trichlorobenzene	14	70	< 0.62	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.31	< 0.31	NA	NA	NA	< 0.31	NA	< 0.31	< 1.6	< 0.31	< 0.31	< 1.6	< 0.62
1,3,5-Trimethylbenzene	96	480	< 0.36	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.18	< 0.18	NA	NA	NA	< 0.18	NA	< 0.18	< 0.9	< 0.18	< 0.18	< 0.90	< 0.36
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	0.5	5	< 0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.074	0.19 J	NA	NA	NA	< 0.074	NA	< 0.074	< 0.37	< 0.074	< 0.074	< 0.37	< 0.15
Bromodichloromethane	0.06	0.6	< 0.34	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.17	< 0.17	NA	NA	NA	< 0.17	NA	< 0.17	< 0.85	< 0.17	< 0.17	< 0.85	< 0.34
Bromoform	0.44	4.4	< 0.56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.28	< 0.28	NA	NA	NA	< 0.28	NA	< 0.28	< 1.4	< 0.28	< 0.28	< 1.4	< 0.56
Bromomethane	1	10	< 0.62	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.31	< 0.31	NA	NA	NA	< 0.31	NA	< 0.31	< 1.6	< 0.31	< 0.31	< 1.6	< 0.62
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.5	5	< 0.52	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.26	< 0.26	NA	NA	NA	< 0.26	NA	< 0.26	< 1.3	< 0.26	< 0.26	< 1.3	< 0.52
Chloroform	0.6	6	< 0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.47 J	< 0.2	NA	NA	NA	< 0.2	NA	< 0.2	< 1	< 0.2	< 0.2	< 1.0	< 0.40
Chloromethane	3	30	< 0.36	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.18	< 0.18	NA	NA	NA	< 0.18	NA	< 0.18	< 0.9	< 0.18	< 0.18	< 0.90	< 0.36
cis-1,2-Dichloroethene	7	70	***330***	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.12	2.8	NA	NA	NA	< 0.12	NA	2.8	***30***	< 0.12	1.4	< 0.60	***12***
Dichlorodifluoromethane	200	1000	< 0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2	< 0.2	NA	NA	NA	< 0.2	NA	< 0.2	< 1	< 0.2	< 0.2	< 1.0	< 0.40
Ethylbenzene	140	700	< 0.26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.13	< 0.13	NA	NA	NA	< 0.13	NA	< 0.13	< 0.65	< 0.13	< 0.13	< 0.65	< 0.26
Isopropylbenzene	NE	NE	< 0.28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.14	< 0.14	NA	NA	NA	< 0.14	NA	< 0.14	< 0.7	< 0.14	< 0.14	< 0.70	< 0.28
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	12	60	< 0.48	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.24	< 0.24	NA	NA	NA	< 0.24	NA	< 0.24	< 1.2	< 0.24	< 0.24	< 1.2	< 0.48
Methylene chloride	0.5	5	< 1.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.68	< 0.68	NA	NA	NA	< 0.68	NA	< 0.68	< 3.4	< 0.68	< 0.68	< 3.4	< 1.4
Naphthalene	10	100	< 0.32	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.16	< 0.16	NA	NA	NA	< 0.16	NA	< 0.16	< 0.8	< 0.16	< 0.16	< 0.80	< 0.32
n-Butylbenzene	NE	NE	< 0.26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.13	< 0.13	NA	NA	NA	< 0.13	NA	< 0.13	< 0.65	< 0.13	< 0.13	< 0.65	< 0.26
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	NE	NE	< 0.26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.13	< 0.13	NA	NA	NA	< 0.13	NA	< 0.13	< 0.65	< 0.13	< 0.13	< 0.65	< 0.26
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	NE	NE	< 0.34	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.17	< 0.17	NA	NA	NA	< 0.17	NA	< 0.17	< 0.85	< 0.17	< 0.17	< 0.85	< 0.34
sec-Butylbenzene	NE	NE	< 0.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.15	< 0.15	NA	NA	NA	< 0.15	NA	< 0.15	< 0.75	< 0.15	< 0.15	< 0.75	< 0.30
Styrene	10	100	< 0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.1	< 0.1	NA	NA	NA	< 0.1	NA	< 0.1	< 0.5	< 0.1	< 0.1	< 0.50	< 0.20
tert-Butylbenzene	NE	NE	< 0.28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.14	< 0.14	NA	NA	NA	< 0.14	NA	< 0.14	< 0.7	< 0.14	< 0.14	< 0.70	< 0.28
Tetrachloroethene	0.5	5	***1300***	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	***190***	***700***	NA	NA	NA	***24***	NA	***490***	***1100***	***53***	***380***	***1600***	***740***
Toluene	160	800	< 0.22	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.34 J	< 0.11	NA	NA	NA	< 0.11	NA	< 0.11	< 0.55	< 0.11	< 0.11	< 0.55	< 0.22
trans-1,2-Dichloroethene	20	100	4.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.25	< 0.25	NA	NA	NA	< 0.25	NA	< 0.25	< 1.3	< 0.25	< 0.25	< 1.3	< 0.50
Trichloroethene	0.5	5	***150***	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.19	***7.9***	NA	NA	NA	< 0.19	NA	***5.3***	***41***	< 0.19	***4.5***	***2.7***	***11***
Trichlorofluoromethane	698	3490	< 0.38	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.19	NA	NA	NA	< 0.19	< 0.19	NA	< 0.19	< 0.95	< 0.19	< 0.19	< 5.0	< 2.0
Vinyl chloride	0.02	0.2	***1.7***	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.1	< 0.1	NA	NA	NA	< 0.1	NA	< 0.1	< 0.5	< 0.1	< 0.1	< 0.50	< 0.20
Xylenes, Total	400	2000	< 0.14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.068	< 0.068	NA	NA	NA	< 0.068	NA	< 0.068	< 0.34	< 0.068	< 0.068	< 0.34	< 0.14
Total PCBs																										
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																										
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																										
Total Dissolved Solids (mg/L)	NE	NE	1000	1500	2400	3000	25000	12000	42000	34000	19000	12000	8700	2400	7700	5500	1900	NA	NA	3900	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-21D	MW-21D	MW-21D	MW-21D	MW-21D	MW-21D	MW-21D	MW-21D	MW-21D	MW-21D	MW-21D	MW-21D	MW-21D	MW-21D	MW-21D	MW-21D[1]	MW-21D	MW-21D[1]	MW-21D[1]	MW-21D	MW-21D	MW-21D	MW-21D
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	11/28/2012	12/12/2012	12/13/2012	12/14/2012	12/15/2012	12/16/2012	12/17/2012	12/18/2012	12/19/2012	12/27/2012	01/02/2013	01/17/2013	01/17/2013	01/30/2013	02/14/2013	02/14/2013	02/14/2013	02/28/2013	03/12/2013	04/17/2013	07/18/2013	10/10/2013	04/15/2014	10/23/2014
VOCs																									
1,1,1,2-Tetrachloroethane	7	70	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.25	NA	NA	NA	< 0.5	NA	< 0.5	< 1.3	< 1.3	< 1.3	< 1.3	< 0.25
1,1,1-Trichloroethane	40	200	< 0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2	NA	NA	NA	< 0.4	NA	< 0.4	< 1	< 1	< 1	< 1.0	< 0.20
1,1,2-Trichloroethane	0.5	5	< 0.56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.28	NA	NA	NA	< 0.56	NA	< 0.56	< 1.4	< 1.4	< 1.4	< 1.4	< 0.28
1,1-Dichloroethene	0.7	7	< 0.62	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.31	NA	NA	NA	< 0.62	NA	< 0.62	< 1.6	< 1.6	< 1.6	< 1.6	< 0.31
1,2,4-Trimethylbenzene	96	480	< 0.28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.14	NA	NA	NA	< 0.28	NA	< 0.28	< 0.7	< 0.7	< 0.7	< 0.70	< 0.14
1,2-Dibromoethane	0.005	0.05	< 0.72	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.36	NA	NA	NA	< 0.72	NA	< 0.72	< 1.8	< 1.8	< 1.8	< 1.8	< 0.36
1,2-Dichlorobenzene	60	600	< 0.54	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.27	NA	NA	NA	< 0.54	NA	< 0.54	< 1.4	< 1.4	< 1.4	< 1.4	< 0.27
1,2-Dichloropropane	0.5	5	< 0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2	NA	NA	NA	< 0.4	NA	< 0.4	< 1	< 1	< 1	< 1.0	< 0.20
1,2,3-Trichlorobenzene	NE	NE	< 0.48	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.24	NA	NA	NA	< 0.48	NA	< 0.48	< 1.2	< 1.2	< 1.2	< 1.2	< 0.24
1,2,4-Trichlorobenzene	14	70	< 0.62	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.31	NA	NA	NA	< 0.62	NA	< 0.62	< 1.6	< 1.6	< 1.6	< 1.6	< 0.31
1,3,5-Trimethylbenzene	96	480	< 0.36	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.18	NA	NA	NA	< 0.36	NA	< 0.36	< 0.9	< 0.9	< 0.9	< 0.90	< 0.18
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	0.5	5	< 0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.074	NA	NA	NA	< 0.15	NA	< 0.15	< 0.37	< 0.37	< 0.37	< 0.37	0.33 J
Bromodichloromethane	0.06	0.6	< 0.34	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.17	NA	NA	NA	< 0.34	NA	< 0.34	< 0.85	< 0.85	< 0.85	< 0.85	< 0.17
Bromoform	0.44	4.4	< 0.56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.28	NA	NA	NA	< 0.56	NA	< 0.56	< 1.4	< 1.4	< 1.4	< 1.4	< 0.28
Bromomethane	1	10	< 0.62	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.31	NA	NA	NA	< 0.62 *	NA	< 0.62	< 1.6	< 1.6	< 1.6	< 1.6	< 0.31
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.5	5	< 0.52	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.26	NA	NA	NA	< 0.52	NA	< 0.52	< 1.3	< 1.3	< 1.3	< 1.3	< 0.26
Chloroform	0.6	6	< 0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2	NA	NA	NA	< 0.4	NA	< 0.4	< 1	< 1	< 1	< 1.0	***0.70 J***
Chloromethane	3	30	< 0.36	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.18	NA	NA	NA	< 0.36	NA	< 0.36	< 0.9	< 0.9	< 0.9	< 0.90	< 0.18
cis-1,2-Dichloroethene	7	70	***380***	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	***85***	NA	NA	NA	***270***	NA	***310***	***310***	***370***	***360***	***320***	***230***
Dichlorodifluoromethane	200	1000	< 0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2	NA	NA	NA	< 0.4	NA	< 0.4	< 1	< 1	< 1	< 1.0	< 0.20
Ethylbenzene	140	700	< 0.26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.43 J	NA	NA	NA	< 0.26	NA	< 0.26	< 0.65	< 0.65	< 0.65	< 0.65	< 0.13
Isopropylbenzene	NE	NE	< 0.28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.14	NA	NA	NA	< 0.28	NA	< 0.28	< 0.7	< 0.7	< 0.7	< 0.70	< 0.14
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	12	60	< 0.48	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.24	NA	NA	NA	< 0.48	NA	< 0.48	< 1.2	< 1.2	< 1.2	< 1.2	< 0.24
Methylene chloride	0.5	5	< 1.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.68	NA	NA	NA	< 1.4	NA	< 1.4	< 3.4	< 3.4	< 3.4	< 3.4	< 0.68
Naphthalene	10	100	< 0.32	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.16	NA	NA	NA	< 0.32	NA	< 0.32	< 0.8	< 0.8	< 0.8	< 0.80	< 0.16
n-Butylbenzene	NE	NE	< 0.26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.13	NA	NA	NA	< 0.26	NA	< 0.26	< 0.65	< 0.65	< 0.65	< 0.65	< 0.13
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	NE	NE	< 0.26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.13	NA	NA	NA	< 0.26	NA	< 0.26	< 0.65	< 0.65	< 0.65	< 0.65	< 0.13
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	NE	NE	< 0.34	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.17	NA	NA	NA	< 0.34	NA	< 0.34	< 0.85	< 0.85	< 0.85	< 0.85	< 0.17
sec-Butylbenzene	NE	NE	< 0.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.15	NA	NA	NA	< 0.3	NA	< 0.3	< 0.75	< 0.75	< 0.75	< 0.75	< 0.15
Styrene	10	100	< 0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.1	NA	NA	NA	< 0.2	NA	< 0.2	< 0.5	< 0.5	< 0.5	< 0.50	< 0.10
tert-Butylbenzene	NE	NE	< 0.28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.14	NA	NA	NA	< 0.28	NA	< 0.28	< 0.7	< 0.7	< 0.7	< 0.70	< 0.14
Tetrachloroethene	0.5	5	***1200***	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	***700***	NA	NA	NA	***1600***	NA	***1500***	***1100***	***1700***	***1600***	***1800***	***1200***
Toluene	160	800	< 0.22	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.38 J	NA	NA	NA	< 0.22	NA	< 0.22	< 0.55	< 0.55	< 0.55	< 0.55	< 0.11
trans-1,2-Dichloroethene	20	100	5.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.25	NA	NA	NA	< 0.5	NA	2.9	< 1.3	5.2	6.2	5.0	4.1
Trichloroethene	0.5	5	***180***	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	***23***	NA	NA	NA	***130***	NA	***160***	***140***	***180***	***160***	***180***	***170***
Trichlorofluoromethane	698	3490	< 0.38	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.19	NA	NA	NA	< 0.38	NA	< 0.38	< 0.95	< 0.95	< 0.95	< 5.0	< 1.0
Vinyl chloride	0.02	0.2	***1.4***	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.1	NA	NA	NA	< 0.2	NA	< 0.2	< 0.5	< 0.5	< 0.5	***1.5 J***	***1.3***
Xylenes, Total	400	2000	< 0.14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5	NA	NA	NA	< 0.14	NA	< 0.14	< 0.34	< 0.34	< 0.34	< 0.34	< 0.068
Total PCBs																									
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																									
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																									
Total Dissolved Solids (mg/L)	NE	NE	1400	1000	8900	3000	3800	3700	2700	2000	1700	1300	1300	1200	1200	1100	1100	1100	NA	1200	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-21D2	MW-21D2	MW-21D2	MW-21D2	MW-21D2	MW-21D2	MW-21D2	MW-21D2	MW-21D2	MW-21D2	MW-21D2	MW-21D2	MW-21D2[1]	MW-21D2	MW-21D2[1]	MW-21D2[1]	MW-21D2	MW-21D2	MW-21D2	MW-21D2[1]
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	110 - 170 ft	110 - 170 ft	110 - 170 ft	110 - 170 ft	110 - 170 ft	110 - 170 ft	110 - 170 ft	110 - 170 ft	110 - 170 ft	110 - 170 ft	110 - 170 ft	110 - 170 ft	110 - 170 ft	110 - 170 ft	110 - 170 ft	110 - 170 ft	110 - 170 ft	110 - 170 ft	110 - 170 ft	110 - 170 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	11/28/2012	12/16/2012	12/17/2012	12/18/2012	12/19/2012	12/27/2012	01/02/2013	01/17/2013	01/17/2013	01/31/2013	02/14/2013	02/14/2013	02/14/2013	02/28/2013	03/12/2013	04/17/2013	07/18/2013	10/15/2013	04/15/2014	10/23/2014
VOCs																						
1,1,1,2-Tetrachloroethane	7	70	< 1.3	NA	NA	NA	NA	NA	NA	NA	< 0.25	NA	NA	NA	< 1.3	NA	< 1.3	< 2.5	< 1.3	< 0.5	< 1.3	< 0.25
1,1,1-Trichloroethane	40	200	< 1	NA	NA	NA	NA	NA	NA	NA	< 0.2	NA	NA	NA	< 1	NA	< 1	< 2	< 1	< 0.4	< 1.0	< 0.20
1,1,2-Trichloroethane	0.5	5	< 1.4	NA	NA	NA	NA	NA	NA	NA	***1.4***	NA	NA	NA	< 1.4	NA	< 1.4	< 2.8	< 1.4	< 0.56	< 1.4	< 0.28
1,1-Dichloroethene	0.7	7	< 1.6	NA	NA	NA	NA	NA	NA	NA	< 0.31	NA	NA	NA	< 1.6	NA	< 1.6	< 3.1	< 1.6	< 0.62	< 1.6	< 0.31
1,2,4-Trimethylbenzene	96	480	< 0.7	NA	NA	NA	NA	NA	NA	NA	< 0.14	NA	NA	NA	< 0.7	NA	< 0.7	< 1.4	< 0.7	< 0.28	< 0.70	< 0.14
1,2-Dibromoethane	0.005	0.05	< 1.8	NA	NA	NA	NA	NA	NA	NA	< 0.36	NA	NA	NA	< 1.8	NA	< 1.8	< 3.6	< 1.8	< 0.72	< 1.8	< 0.36
1,2-Dichlorobenzene	60	600	< 1.4	NA	NA	NA	NA	NA	NA	NA	< 0.27	NA	NA	NA	< 1.4	NA	< 1.4	< 2.7	< 1.4	< 0.54	< 1.4	< 0.27
1,2-Dichloropropane	0.5	5	< 1	NA	NA	NA	NA	NA	NA	NA	< 0.2	NA	NA	NA	< 1	NA	< 1	< 2	< 1	< 0.4	< 1.0	< 0.20
1,2,3-Trichlorobenzene	NE	NE	< 1.2	NA	NA	NA	NA	NA	NA	NA	< 0.24	NA	NA	NA	< 1.2	NA	< 1.2	< 2.4	< 1.2	< 0.48	< 1.2	< 0.24
1,2,4-Trichlorobenzene	14	70	< 1.6	NA	NA	NA	NA	NA	NA	NA	< 0.31	NA	NA	NA	< 1.6	NA	< 1.6	< 3.1	< 1.6	< 0.62	< 1.6	< 0.31
1,3,5-Trimethylbenzene	96	480	< 0.9	NA	NA	NA	NA	NA	NA	NA	< 0.18	NA	NA	NA	< 0.9	NA	< 0.9	< 1.8	< 0.9	< 0.36	< 0.90	< 0.18
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	0.5	5	< 0.37	NA	NA	NA	NA	NA	NA	NA	0.25 J	NA	NA	NA	< 0.37	NA	< 0.37	< 0.74	< 0.37	< 0.15	< 0.37	0.24 J
Bromodichloromethane	0.06	0.6	< 0.85	NA	NA	NA	NA	NA	NA	NA	< 0.17	NA	NA	NA	< 0.85	NA	< 0.85	< 1.7	< 0.85	< 0.34	< 0.85	< 0.17
Bromoform	0.44	4.4	< 1.4	NA	NA	NA	NA	NA	NA	NA	< 0.28	NA	NA	NA	< 1.4	NA	< 1.4	< 2.8	< 1.4	< 0.56	< 1.4	< 0.28
Bromomethane	1	10	< 1.6	NA	NA	NA	NA	NA	NA	NA	< 0.31	NA	NA	NA	< 1.6 *	NA	< 1.6	< 3.1	< 1.6	< 0.62	< 1.6	< 0.31
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.5	5	< 1.3	NA	NA	NA	NA	NA	NA	NA	< 0.26	NA	NA	NA	< 1.3	NA	< 1.3	< 2.6	< 1.3	< 0.52	< 1.3	< 0.26
Chloroform	0.6	6	< 1	NA	NA	NA	NA	NA	NA	NA	< 0.2	NA	NA	NA	< 1	NA	< 1	< 2	< 1	< 0.4	< 1.0	***0.81 J***
Chloromethane	3	30	< 0.9	NA	NA	NA	NA	NA	NA	NA	< 0.18	NA	NA	NA	< 0.9	NA	< 0.9	< 1.8	< 0.9	< 0.36	< 0.90	< 0.18
cis-1,2-Dichloroethene	7	70	***300***	NA	NA	NA	NA	NA	NA	NA	< 0.12	NA	NA	NA	< 0.6	NA	< 0.6	***190***	***220***	***110***	***110***	1.3
Dichlorodifluoromethane	200	1000	< 1	NA	NA	NA	NA	NA	NA	NA	< 0.2	NA	NA	NA	< 1	NA	< 1	< 2	< 1	< 0.4	< 1.0	< 0.20
Ethylbenzene	140	700	< 0.65	NA	NA	NA	NA	NA	NA	NA	0.62	NA	NA	NA	< 0.65	NA	< 0.65	< 1.3	< 0.65	< 0.26	< 0.65	< 0.13
Isopropylbenzene	NE	NE	< 0.7	NA	NA	NA	NA	NA	NA	NA	< 0.14	NA	NA	NA	< 0.7	NA	< 0.7	< 1.4	< 0.7	< 0.28	< 0.70	< 0.14
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	12	60	< 1.2	NA	NA	NA	NA	NA	NA	NA	< 0.24	NA	NA	NA	< 1.2	NA	< 1.2	< 2.4	< 1.2	< 0.48	< 1.2	< 0.24
Methylene chloride	0.5	5	< 3.4	NA	NA	NA	NA	NA	NA	NA	< 0.68	NA	NA	NA	< 3.4	NA	< 3.4	< 6.8	< 3.4	< 1.4	< 3.4	< 0.68
Naphthalene	10	100	< 0.8	NA	NA	NA	NA	NA	NA	NA	< 0.16	NA	NA	NA	< 0.8	NA	< 0.8	< 1.6	< 0.8	< 0.32	< 0.80	< 0.16
n-Butylbenzene	NE	NE	< 0.65	NA	NA	NA	NA	NA	NA	NA	< 0.13	NA	NA	NA	< 0.65	NA	< 0.65	< 1.3	< 0.65	< 0.26	< 0.65	< 0.13
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	NE	NE	< 0.65	NA	NA	NA	NA	NA	NA	NA	< 0.13	NA	NA	NA	< 0.65	NA	< 0.65	< 1.3	< 0.65	< 0.26	< 0.65	< 0.13
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	NE	NE	< 0.85	NA	NA	NA	NA	NA	NA	NA	< 0.17	NA	NA	NA	< 0.85	NA	< 0.85	< 1.7	< 0.85	< 0.34	< 0.85	< 0.17
sec-Butylbenzene	NE	NE	< 0.75	NA	NA	NA	NA	NA	NA	NA	< 0.15	NA	NA	NA	< 0.75	NA	< 0.75	< 1.5	< 0.75	< 0.3	< 0.75	< 0.15
Styrene	10	100	< 0.5	NA	NA	NA	NA	NA	NA	NA	< 0.1	NA	NA	NA	< 0.5	NA	< 0.5	< 1	< 0.5	< 0.2	< 0.50	< 0.10
tert-Butylbenzene	NE	NE	< 0.7	NA	NA	NA	NA	NA	NA	NA	< 0.14	NA	NA	NA	< 0.7	NA	< 0.7	< 1.4	< 0.7	< 0.28	< 0.70	< 0.14
Tetrachloroethene	0.5	5	***2600***	NA	NA	NA	NA	NA	NA	NA	***1200***	NA	NA	NA	***3900***	NA	***2200***	***3500***	***2500***	***1500***	***1900***	***930***
Toluene	160	800	< 0.55	NA	NA	NA	NA	NA	NA	NA	0.48 J	NA	NA	NA	< 0.55	NA	< 0.55	< 1.1	< 0.55	< 0.22	< 0.55	< 0.11
trans-1,2-Dichloroethene	20	100	2.7 J	NA	NA	NA	NA	NA	NA	NA	< 0.25	NA	NA	NA	< 1.3	NA	< 1.3	< 2.5	< 1.3	< 0.5	< 1.3	< 0.25
Trichloroethene	0.5	5	***160***	NA	NA	NA	NA	NA	NA	NA	< 0.19	NA	NA	NA	***11***	NA	***14***	***150***	***210***	***120***	***130***	***3.3***
Trichlorofluoromethane	698	3490	< 0.95	NA	NA	NA	NA	NA	NA	NA	< 0.19	NA	NA	NA	< 0.95	NA	< 0.95	< 1.9	< 0.95	< 0.38	< 5.0	< 1.0
Vinyl chloride	0.02	0.2	< 0.5	NA	NA	NA	NA	NA	NA	NA	< 0.1	NA	NA	NA	< 0.5	NA	< 0.5	< 1	< 0.5	< 0.2	< 0.50	< 0.10
Xylenes, Total	400	2000	< 0.34	NA	NA	NA	NA	NA	NA	NA	4.3	NA	NA	NA	< 0.34	NA	< 0.34	< 0.68	< 0.34	< 0.14	< 0.34	< 0.068
Total PCBs																						
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																						
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																						
Total Dissolved Solids (mg/L)	NE	NE	1100	950	930	910	920	1000	1100	1900	1800	4000	1200	1700	NA	3900	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-22S	MW-22S	MW-22S	MW-22S	MW-22S	MW-22S	MW-22S	MW-22S	MW-22S	MW-22S	MW-22S	MW-22S[3]
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	24 - 35 ft	24 - 35 ft	24 - 35 ft	24 - 35 ft	24 - 35 ft	24 - 35 ft	24 - 35 ft	24 - 35 ft	24 - 35 ft	24 - 35 ft	24 - 35 ft	24 - 35 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	01/15/2013	03/07/2013	04/19/2013	07/16/2013	10/10/2013	04/18/2014	10/20/2014	04/09/2015	10/20/2015	10/14/2016	10/06/2017	10/06/2017
VOCs														
1,1,1,2-Tetrachloroethane	7	70	< 0.25	NA	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.46	< 0.11	< 0.11	< 0.11
1,1,1-Trichloroethane	40	200	< 0.2	NA	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.38	< 0.10	< 0.1	< 0.1
1,1,2-Trichloroethane	0.5	5	< 0.28	NA	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.35	< 0.10	< 0.1	< 0.1
1,1-Dichloroethene	0.7	7	< 0.31	NA	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.39	< 0.14	< 0.14	0.14 J
1,2,4-Trimethylbenzene	96	480	0.86 J	NA	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.36	< 0.060	< 0.06	< 0.06
1,2-Dibromoethane	0.005	0.05	< 0.36	NA	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.39	< 0.13	< 0.13	< 0.13
1,2-Dichlorobenzene	60	600	< 0.27	NA	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.33	< 0.076	0.11 J	0.11 J
1,2-Dichloropropane	0.5	5	< 0.2	NA	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.43	< 0.10	< 0.1	< 0.1
1,2,3-Trichlorobenzene	NE	NE	< 0.24	NA	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.045	< 0.045	< 0.045
1,2,4-Trichlorobenzene	14	70	< 0.31	NA	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.34	< 0.077	0.08 BJ	< 0.077
1,3,5-Trimethylbenzene	96	480	< 0.18	NA	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.25	< 0.075	< 0.075	< 0.075
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.0	< 3	< 3
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.95	< 0.95	< 0.95
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.77	< 0.77	< 0.77
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.4	< 3.4	11 J
Benzene	0.5	5	***1.1***	NA	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.15	< 0.089	< 0.089	< 0.089
Bromodichloromethane	0.06	0.6	< 0.17	NA	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.37	< 0.077	< 0.077	< 0.077
Bromoform	0.44	4.4	< 0.28	NA	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.48	< 0.088	< 0.088	< 0.088
Bromomethane	1	10	< 0.31	NA	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31 *	< 0.31	< 0.80	< 0.59	< 0.59	< 0.59
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.053	< 0.053	< 0.053
Carbon tetrachloride	0.5	5	< 0.26	NA	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.38	< 0.038	< 0.038	< 0.038
Chloroform	0.6	6	***1***	NA	***0.91 J***	***1.4***	< 0.2	< 0.20	***0.75 J***	< 0.20	***0.66 J***	***0.91***	0.5	0.49 J
Chloromethane	3	30	< 0.18	NA	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.32	0.72 J	***3***	***5.2***
cis-1,2-Dichloroethene	7	70	1.8	NA	6.1	3.8	***97***	***46***	***58***	***65***	***32***	***46***	***38 J-***	***37***
Dichlorodifluoromethane	200	1000	< 0.2	NA	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.54	< 0.11	< 0.11	< 0.11
Ethylbenzene	140	700	0.50	NA	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.18	< 0.054	< 0.054	< 0.054
Isopropylbenzene	NE	NE	< 0.14	NA	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.39	< 0.081	< 0.081	< 0.081
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.057	< 0.057	< 0.057
Methyl tert-butyl ether	12	60	< 0.24	NA	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24 *	< 0.24	< 0.39	< 0.14	< 0.14	< 0.14
Methylene chloride	0.5	5	< 0.68	NA	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 1.6	< 0.14	< 0.14	< 0.14
Naphthalene	10	100	< 0.16	NA	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.34	< 0.088	< 0.088	< 0.088
n-Butylbenzene	NE	NE	< 0.13	NA	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.39	< 0.14	< 0.14	< 0.14
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	< 0.21	< 0.21
n-Propylbenzene	NE	NE	< 0.13	NA	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.41	< 0.10	< 0.1	< 0.1
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.058	< 0.058	< 0.058
p-Isopropyltoluene	NE	NE	< 0.17	NA	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.36	< 0.085	< 0.085	< 0.085
sec-Butylbenzene	NE	NE	< 0.15	NA	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.40	< 0.13	< 0.13	< 0.13
Styrene	10	100	< 0.1	NA	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.39	< 0.065	< 0.065	< 0.065
tert-Butylbenzene	NE	NE	< 0.14	NA	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.40	< 0.12	< 0.12	< 0.12
Tetrachloroethene	0.5	5	***180***	NA	***160***	***210***	***13***	***23***	***61***	***17***	***30***	***18***	***24 BJ***	***23 B***
Toluene	160	800	1.7	NA	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.15	0.12 J	< 0.053	< 0.053
trans-1,2-Dichloroethene	20	100	< 0.25	NA	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.35	0.36 J	0.49 J	0.46 J
Trichloroethene	0.5	5	***4.8***	NA	***5.4***	***8.5***	***6.1***	***4.2***	***7.1***	***2.9***	***4.1***	***9.8***	***9.4***	***9.1***
Trichlorofluoromethane	698	3490	< 0.19	NA	< 0.19	< 0.19	< 0.19	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 0.5	< 0.5
Vinyl chloride	0.02	0.2	< 0.1	NA	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.20	***0.40 J***	***0.85***	***0.8***
Xylenes, Total	400	2000	1.5	NA	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.22	< 0.058	< 0.12	< 0.12
Total PCBs														
Aroclor-1016	0.003	0.03	***12***	< 0.033	***4***	< 0.064	< 0.064	< 0.065	NA	NA	NA	NA	< 0.035	< 0.035
Aroclor-1232	0.003	0.03	< 0.49	***13***	< 0.19	< 0.19	***12***	< 0.20	NA	NA	NA	NA	< 0.037	< 0.037
Aroclor-1242	0.003	0.03	< 0.69	< 0.099	< 0.19	***4.7***	< 0.19	***7.1***	NA	NA	NA	NA	< 0.038	< 0.038
Aroclor-1248	0.003	0.03	< 0.58	< 0.099	< 0.19	< 0.19	< 0.19	< 0.20	NA	NA	NA	NA	***2***	***1.9***
Total Detected PCBs	0.003	0.03	***12***	***13***	***4***	***4.7***	***12***	***7.1***	NA	NA	NA	NA	***2***	***1.9***
Dissolved PCBs														
Aroclor-1016	0.003	0.03	NA	< 0.037	< 0.068	< 0.065	< 0.063	< 0.067	***0.89***	< 0.063	< 0.064	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	< 0.11	< 0.2	< 0.19	< 0.19	< 0.20	< 0.19	< 0.19	< 0.19	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	< 0.11	< 0.2	< 0.19	< 0.19	***0.28 J***	< 0.19	***1.9***	< 0.19	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	< 0.11	< 0.2	< 0.19	< 0.19	< 0.20	< 0.19	< 0.19	< 0.19	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	ND	ND	ND	ND	***0.28 J***	***0.89***	***1.9***	ND	NA	NA	NA
Solids														
Total Dissolved Solids (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	806	830	838
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0	1.2 J	< 0.95

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Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-22D	MW-22D[3]	MW-22D	MW-22D	MW-22D[3]	MW-22D	MW-22D[3]	MW-22D	MW-22D[3]	MW-22D	MW-22D[3]	MW-22D	MW-22D[3]	MW-22D
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	01/15/2013	01/15/2013	03/08/2013	04/19/2013	04/19/2013	07/16/2013	07/16/2013	10/10/2013	10/10/2013	04/18/2014	04/18/2014	10/16/2014	10/16/2014	04/09/2015
VOCs																
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.25	NA	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,1,1-Trichloroethane	40	200	< 0.2	< 0.2	NA	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
1,1,2-Trichloroethane	0.5	5	< 0.28	< 0.28	NA	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
1,1-Dichloroethene	0.7	7	< 0.31	< 0.31	NA	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
1,2,4-Trimethylbenzene	96	480	< 0.14	< 0.14	NA	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
1,2-Dibromoethane	0.005	0.05	< 0.36	< 0.36	NA	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
1,2-Dichlorobenzene	60	600	< 0.27	< 0.27	NA	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
1,2-Dichloropropane	0.5	5	< 0.2	< 0.2	NA	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
1,2,3-Trichlorobenzene	NE	NE	< 0.24	< 0.24	NA	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
1,2,4-Trichlorobenzene	14	70	< 0.31	< 0.31	NA	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
1,3,5-Trimethylbenzene	96	480	< 0.18	< 0.18	NA	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	0.5	5	< 0.074	< 0.074	NA	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	0.47 J
Bromodichloromethane	0.06	0.6	< 0.17	< 0.17	NA	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Bromoform	0.44	4.4	< 0.28	< 0.28	NA	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
Bromomethane	1	10	< 0.31	< 0.31	NA	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.5	5	< 0.26	< 0.26	NA	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
Chloroform	0.6	6	< 0.2	< 0.2	NA	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Chloromethane	3	30	0.47 J	< 0.18	NA	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
cis-1,2-Dichloroethene	7	70	3.6	3.3	NA	4.9	4.9	3.7	3.7	< 0.12	4.0	2.6	2.5	4.2	4.9	4.2
Dichlorodifluoromethane	200	1000	< 0.2	< 0.2	NA	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Ethylbenzene	140	700	< 0.13	< 0.13	NA	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Isopropylbenzene	NE	NE	< 0.14	< 0.14	NA	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	12	60	< 0.24	< 0.24	NA	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Methylene chloride	0.5	5	< 0.68	< 0.68	NA	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	***6.6***	***7.1***	< 0.68
Naphthalene	10	100	< 0.16	< 0.16	NA	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
n-Butylbenzene	NE	NE	< 0.13	< 0.13	NA	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	NE	NE	< 0.13	< 0.13	NA	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	NE	NE	< 0.17	< 0.17	NA	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
sec-Butylbenzene	NE	NE	< 0.15	< 0.15	NA	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Styrene	10	100	< 0.1	< 0.1	NA	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
tert-Butylbenzene	NE	NE	< 0.14	< 0.14	NA	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
Tetrachloroethene	0.5	5	***520***	***470***	NA	***450***	***430***	***270***	***310***	***190***	***190***	***430***	***450***	***250***	***270***	***170***
Toluene	160	800	< 0.11	< 0.11	NA	< 0.11	< 0.11	0.37 J	0.38 J	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
trans-1,2-Dichloroethene	20	100	< 0.25	< 0.25	NA	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Trichloroethene	0.5	5	***5.8***	***6***	NA	***5.8***	***5.7***	***5***	***5.3***	***4.9***	***5.3***	***6.8***	***6.7***	***5.7***	***6.9***	***5.6***
Trichlorofluoromethane	698	3490	< 0.19	< 0.19	NA	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	0.02	0.2	< 0.1	< 0.1	NA	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	***0.92***	< 0.10	< 0.10	***0.68***	***0.66***	***0.62***
Xylenes, Total	400	2000	< 0.068	< 0.068	NA	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068
Total PCBs																
Aroclor-1016	0.003	0.03	***2.4***	NA	< 0.033	< 0.064	NA	< 0.063	NA	< 0.063	NA	< 0.065	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	< 0.092	NA	***2.6***	< 0.19	NA	< 0.19	NA	***3.3***	NA	< 0.19	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	< 0.13	NA	< 0.1	< 0.19	NA	***0.97***	NA	< 0.19	NA	< 0.19	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	< 0.11	NA	< 0.1	< 0.19	NA	< 0.19	NA	< 0.19	NA	< 0.19	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	***2.4***	NA	***2.6***	ND	NA	***0.97***	NA	***3.3***	NA	ND	NA	NA	NA	NA
Dissolved PCBs																
Aroclor-1016	0.003	0.03	NA	NA	< 0.033	< 0.064	NA	< 0.064	NA	< 0.065	NA	< 0.066	NA	< 0.063	NA	< 0.063
Aroclor-1232	0.003	0.03	NA	NA	< 0.1	< 0.19	NA	< 0.19	NA	< 0.19	NA	< 0.20	NA	< 0.19	NA	< 0.19
Aroclor-1242	0.003	0.03	NA	NA	< 0.1	< 0.19	NA	< 0.19	NA	< 0.19	NA	< 0.20	NA	< 0.19	NA	***4.3***
Aroclor-1248	0.003	0.03	NA	NA	< 0.1	< 0.19	NA	< 0.19	NA	< 0.19	NA	< 0.20	NA	< 0.19	NA	< 0.19
Total Detected PCBs	0.003	0.03	NA	NA	ND	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	***4.3***
Solids																
Total Dissolved Solids (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-22D[3]	MW-22D	MW-22D	MW-22D	MW-22D[3]	MW-22D	MW-22D	MW-22D	MW-22D	MW-22D	MW-22D	MW-22D	MW-22D[3]
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	04/09/2015	06/10/2015	07/20/2015	10/20/2015	10/20/2015	01/22/2016	04/21/2016	07/20/2016	10/14/2016	1/20/2017	04/11/2017	10/06/2017	10/06/2017
VOCs															
1,1,1,2-Tetrachloroethane	7	70	< 0.25	NA	NA	< 0.46	< 0.46	< 0.11	< 2.2	< 0.55	< 0.44	< 0.55	< 0.55	< 0.55	< 0.55
1,1,1-Trichloroethane	40	200	< 0.20	NA	NA	< 0.38	< 0.38	< 0.10	< 2.0	< 0.50	< 0.40	< 0.50	< 0.50	< 0.5	< 0.5
1,1,2-Trichloroethane	0.5	5	< 0.28	NA	NA	< 0.35	< 0.35	< 0.10	< 2.0	< 0.50	< 0.40	< 0.50	< 0.50	< 0.5	< 0.5
1,1-Dichloroethene	0.7	7	< 0.31	NA	NA	< 0.39	< 0.39	< 0.14	< 2.8	< 0.70	< 0.56	< 0.70	< 0.70	< 0.7	< 0.7
1,2,4-Trimethylbenzene	96	480	< 0.14	NA	NA	< 0.36	< 0.36	< 0.060	< 1.2	< 0.30	< 0.24	< 0.30	< 0.30	< 0.3	< 0.3
1,2-Dibromoethane	0.005	0.05	< 0.36	NA	NA	< 0.39	< 0.39	< 0.13	< 2.6	< 0.65	< 0.52	< 0.65	< 0.65	< 0.65	< 0.65
1,2-Dichlorobenzene	60	600	< 0.27	NA	NA	< 0.33	< 0.33	< 0.076	< 1.5	< 0.38	< 0.30	< 0.38	< 0.38	< 0.38	< 0.38
1,2-Dichloropropane	0.5	5	< 0.20	NA	NA	< 0.43	< 0.43	< 0.10	< 2.0	< 0.50	< 0.40	< 0.50	< 0.50	< 0.5	< 0.5
1,2,3-Trichlorobenzene	NE	NE	< 0.24	NA	NA	< 0.46	< 0.46	< 0.045	< 0.90	< 0.23	< 0.18	< 0.23	< 0.23	< 0.23	< 0.23
1,2,4-Trichlorobenzene	14	70	< 0.31	NA	NA	< 0.34	< 0.34	< 0.077	< 1.5	< 0.39	< 0.31	< 0.39	< 0.39	< 0.39	< 0.39
1,3,5-Trimethylbenzene	96	480	< 0.18	NA	NA	< 0.25	< 0.25	< 0.075	< 1.5	< 0.38	< 0.30	< 0.38	< 0.38	< 0.38	< 0.38
2-Butanone	800	4000	NA	NA	NA	NA	NA	< 3.0	< 60	< 15	< 12	< 15	< 15	< 15	< 15
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	< 0.95	< 19	< 4.8	< 3.8	< 4.8	< 4.8	< 4.8	< 4.8
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	< 0.77	< 15	< 3.9	< 3.1	< 3.9	< 3.9	< 3.9	< 3.9
Acetone	1800	9000	NA	NA	NA	NA	NA	< 3.4	< 68	< 17	< 14	< 17	38 BJ	< 17	< 17
Benzene	0.5	5	< 0.074	NA	NA	< 0.15	< 0.15	< 0.089	< 1.8	< 0.45	< 0.36	< 0.45	***0.80 J***	< 0.45	< 0.45
Bromodichloromethane	0.06	0.6	< 0.17	NA	NA	< 0.37	< 0.37	< 0.077	< 1.5	< 0.39	< 0.31	< 0.39	< 0.39	< 0.39	< 0.39
Bromoform	0.44	4.4	< 0.28	NA	NA	< 0.48	< 0.48	< 0.088	< 1.8	< 0.44	< 0.35	< 0.44	< 0.44	< 0.44	< 0.44
Bromomethane	1	10	< 0.31	NA	NA	< 0.80	< 0.80	< 0.59	< 12	< 3.0	< 2.4	< 3.0	< 3.0	< 3	< 3
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	< 0.053	9.2 J	< 0.27	< 0.21	< 0.27	2.3 J	< 0.27	< 0.27
Carbon tetrachloride	0.5	5	< 0.26	NA	NA	< 0.38	< 0.38	< 0.038	< 0.76	< 0.19	< 0.15	< 0.19	< 0.19	< 0.19	< 0.19
Chloroform	0.6	6	< 0.20	NA	NA	< 0.37	< 0.37	0.36 J	***2.4 BJ***	< 0.31	< 0.25	0.40 BJ	***1.1 J***	< 0.31	< 0.31
Chloromethane	3	30	< 0.18	NA	NA	< 0.32	< 0.32	< 0.16	< 3.2	< 0.80	***3.4 J***	< 0.80	2.8 J+	< 0.8	***4.9 J***
cis-1,2-Dichloroethene	7	70	4.4	NA	NA	4.0	3.9	3.9	3.6 J	3.8	5.6	***14***	***26***	***47***	***47***
Dichlorodifluoromethane	200	1000	< 0.20	NA	NA	< 0.54	< 0.54	< 0.11	< 2.2	< 0.55	< 0.44	< 0.55	< 0.55	< 0.55	< 0.55
Ethylbenzene	140	700	< 0.13	NA	NA	< 0.18	< 0.18	< 0.054	< 1.1	< 0.27	< 0.22	< 0.27	< 0.27	< 0.27	< 0.27
Isopropylbenzene	NE	NE	< 0.14	NA	NA	< 0.39	< 0.39	< 0.081	< 1.6	< 0.41	< 0.32	< 0.41	< 0.41	< 0.41	< 0.41
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	< 0.057	< 1.1	< 0.29	< 0.23	< 0.29	< 0.29	< 0.29	< 0.29
Methyl tert-butyl ether	12	60	< 0.24	NA	NA	< 0.39	< 0.39	< 0.14	< 2.8	< 0.70	< 0.56	< 0.70	< 0.70	< 0.7	< 0.7
Methylene chloride	0.5	5	< 0.68	NA	NA	< 1.6	< 1.6	< 0.14	< 2.8	< 0.70	< 0.56	***1.3 BJ***	< 0.70	< 0.7	< 0.7
Naphthalene	10	100	< 0.16	NA	NA	< 0.34	< 0.34	< 0.088	< 1.8	< 0.44	< 0.35	< 0.44	1.6 BJ	< 0.44	< 0.44
n-Butylbenzene	NE	NE	< 0.13	NA	NA	< 0.39	< 0.39	< 0.14	< 2.8	< 0.70	< 0.56	< 0.70	< 0.70	< 0.7	< 0.7
n-Hexane	120	600	NA	NA	NA	NA	NA	< 0.21	< 4.2	< 1.1	< 0.84	< 1.1	< 1.1	< 1.1	< 1.1
n-Propylbenzene	NE	NE	< 0.13	NA	NA	< 0.41	< 0.41	< 0.10	< 2.0	< 0.50	< 0.40	< 0.50	< 0.50	< 0.5	< 0.5
o-Xylene	400	2000	NA	NA	NA	NA	NA	< 0.058	< 1.2	< 0.29	< 0.23	< 0.29	< 0.29	< 0.29	< 0.29
p-Isopropyltoluene	NE	NE	< 0.17	NA	NA	< 0.36	< 0.36	< 0.085	< 1.7	< 0.43	< 0.34	< 0.43	< 0.43	< 0.43	< 0.43
sec-Butylbenzene	NE	NE	< 0.15	NA	NA	< 0.40	< 0.40	< 0.13	< 2.6	< 0.65	< 0.52	< 0.65	< 0.65	< 0.65	< 0.65
Styrene	10	100	< 0.10	NA	NA	< 0.39	< 0.39	< 0.065	< 1.3	< 0.33	< 0.26	< 0.33	< 0.33	< 0.33	0.35 BJ
tert-Butylbenzene	NE	NE	< 0.14	NA	NA	< 0.40	< 0.40	< 0.12	< 2.4	< 0.60	< 0.48	< 0.60	< 0.60	< 0.6	< 0.6
Tetrachloroethene	0.5	5	***190***	NA	NA	***140***	***160***	***220***	***140***	***130***	***92***	***120***	***120***	***120 B***	***120 B***
Toluene	160	800	< 0.11	NA	NA	< 0.15	< 0.15	< 0.053	< 1.1	< 0.27	0.48 J	0.50 BJ	0.80 J	< 0.27	< 0.27
trans-1,2-Dichloroethene	20	100	< 0.25	NA	NA	< 0.35	< 0.35	0.23 J	< 2.2	< 0.55	< 0.44	0.70 J	1.3 J	2.3 J	2.5 J
Trichloroethene	0.5	5	***5.7***	NA	NA	***5.4***	***5.7***	***6.1***	***5.6 J***	***5.7***	***4.4***	***5.2 B***	***6.3***	***9.4***	***9.4***
Trichlorofluoromethane	698	3490	< 1.0	NA	NA	< 1.0	< 1.0	< 0.50	< 10	< 2.5	< 2.0	< 2.5	< 2.5	< 2.5	< 2.5
Vinyl chloride	0.02	0.2	< 0.10	NA	NA	***0.66***	***0.74***	< 0.16	< 3.2	***0.85 J***	***2.2***	***4.3***	***6.5 J+***	***10***	***11***
Xylenes, Total	400	2000	< 0.068	NA	NA	< 0.22	< 0.22	< 0.058	< 1.2	< 0.29	< 0.23	< 0.58	< 0.58	< 0.58	< 0.58
Total PCBs															
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.035	< 0.035
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.037	< 0.037
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.038	< 0.038
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	***0.3***	***0.31***
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	***0.3***	***0.31***
Dissolved PCBs															
Aroclor-1016	0.003	0.03	NA	< 0.066	< 0.062	< 0.069	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	< 0.20	< 0.19	< 0.21	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	< 0.20	< 0.19	< 0.21	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	< 0.20	< 0.19	< 0.21	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids															
Total Dissolved Solids (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	892	890
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.95	< 0.95

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Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-23S	MW-23S	MW-23S	MW-23S	MW-23S	MW-23S	MW-23S	MW-23S	MW-23S	MW-23S	MW-23S	MW-23S[3]	MW-23S	MW-23S[3]
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	24 - 35 ft	24 - 35 ft	24 - 35 ft	24 - 35 ft	24 - 35 ft	24 - 35 ft	24 - 35 ft	24 - 35 ft	24 - 35 ft	24 - 35 ft	24 - 35 ft	24 - 35 ft	24 - 35 ft	24 - 35 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	01/15/2013	04/19/2013	07/16/2013	09/05/2013	09/05/2013	10/10/2013	04/18/2014	10/20/2014	04/09/2015	10/20/2015	10/14/2016	10/14/2016	10/06/2017	10/06/2017
VOCs																
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.25	< 0.25	< 0.25	NA	< 0.25	< 0.25	< 0.25	< 0.25	< 0.46	< 0.44	< 0.22	< 0.22	< 0.55
1,1,1-Trichloroethane	40	200	< 0.2	< 0.2	< 0.2	< 0.2	NA	< 0.2	< 0.20	< 0.20	< 0.20	< 0.38	< 0.40	< 0.20	< 0.2	< 0.5
1,1,2-Trichloroethane	0.5	5	< 0.28	< 0.28	< 0.28	< 0.28	NA	***1.8***	< 0.28	< 0.28	< 0.28	< 0.35	< 0.40	< 0.20	< 0.2	< 0.5
1,1-Dichloroethene	0.7	7	< 0.31	< 0.31	< 0.31	< 0.31	NA	< 0.31	< 0.31	< 0.31	< 0.31	< 0.39	< 0.56	< 0.28	< 0.28	< 0.7
1,2,4-Trimethylbenzene	96	480	< 0.14	< 0.14	< 0.14	< 0.14	NA	< 0.14	< 0.14	< 0.14	< 0.14	< 0.36	< 0.24	< 0.12	< 0.12	< 0.3
1,2-Dibromoethane	0.005	0.05	< 0.36	< 0.36	< 0.36	< 0.36	NA	< 0.36	< 0.36	< 0.36	< 0.36	< 0.39	< 0.52	< 0.26	< 0.26	< 0.65
1,2-Dichlorobenzene	60	600	< 0.27	< 0.27	< 0.27	< 0.27	NA	< 0.27	< 0.27	< 0.27	< 0.27	< 0.33	< 0.30	< 0.15	< 0.15	< 0.38
1,2-Dichloropropane	0.5	5	< 0.2	< 0.2	< 0.2	< 0.2	NA	< 0.2	< 0.20	< 0.20	< 0.20	< 0.43	< 0.40	< 0.20	< 0.2	< 0.5
1,2,3-Trichlorobenzene	NE	NE	< 0.24	< 0.24	< 0.24	< 0.24	NA	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.18	< 0.090	< 0.09	< 0.23
1,2,4-Trichlorobenzene	14	70	< 0.31	< 0.31	< 0.31	< 0.31	NA	< 0.31	< 0.31	< 0.31	< 0.31	< 0.34	< 0.31	< 0.15	< 0.15	< 0.39
1,3,5-Trimethylbenzene	96	480	< 0.18	< 0.18	< 0.18	< 0.18	NA	< 0.18	< 0.18	< 0.18	< 0.18	< 0.25	< 0.30	< 0.15	< 0.15	< 0.38
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 12	< 6.0	< 6	< 15
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.8	< 1.9	< 1.9	< 4.8
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.1	< 1.5	< 1.5	< 3.9
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 14	< 6.8	14 J	< 17
Benzene	0.5	5	***0.73***	< 0.074	< 0.074	< 0.074	NA	< 0.074	< 0.074	< 0.074	< 0.074	< 0.15	< 0.36	< 0.18	< 0.18	< 0.45
Bromodichloromethane	0.06	0.6	< 0.17	< 0.17	< 0.17	< 0.17	NA	< 0.17	< 0.17	< 0.17	< 0.17	< 0.37	< 0.31	< 0.15	< 0.15	< 0.39
Bromoform	0.44	4.4	< 0.28	< 0.28	< 0.28	< 0.28	NA	< 0.28	< 0.28	< 0.28	< 0.28	< 0.48	< 0.35	< 0.18	< 0.18	< 0.44
Bromomethane	1	10	< 0.31	< 0.31	< 0.31	< 0.31	NA	< 0.31	< 0.31	< 0.31 *	< 0.31	< 0.80	< 2.4	< 1.2	< 1.2	< 3
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	< 0.11	< 0.11	< 0.27
Carbon tetrachloride	0.5	5	< 0.26	< 0.26	< 0.26	< 0.26	NA	< 0.26	< 0.26	< 0.26	< 0.26	< 0.38	< 0.15	< 0.076	< 0.076	< 0.19
Chloroform	0.6	6	< 0.2	< 0.2	< 0.2	< 0.2	NA	< 0.2	< 0.20	< 0.20	< 0.20	< 0.37	< 0.25	< 0.12	< 0.12	< 0.31
Chloromethane	3	30	1.2	< 0.18	< 0.18	< 0.18	NA	< 0.18	< 0.18	< 0.18	< 0.18	< 0.32	2.3 BJ	0.86 J	0.92 J	2.7 J
cis-1,2-Dichloroethene	7	70	< 0.12	3.7	***29***	***27***	NA	***16***	***16***	***19***	***20***	***9.6***	***12***	***15***	***33***	***33***
Dichlorodifluoromethane	200	1000	< 0.2	< 0.2	< 0.2	< 0.2	NA	< 0.2	< 0.20	< 0.20	< 0.20	< 0.54	< 0.44	< 0.22	< 0.22	< 0.55
Ethylbenzene	140	700	0.43 J	< 0.13	< 0.13	< 0.13	NA	< 0.13	< 0.13	< 0.13	< 0.13	< 0.18	< 0.22	< 0.11	< 0.11	< 0.27
Isopropylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.14	NA	< 0.14	< 0.14	< 0.14	< 0.14	< 0.39	< 0.32	< 0.16	< 0.16	< 0.41
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.23	< 0.11	< 0.11	< 0.29
Methyl tert-butyl ether	12	60	< 0.24	< 0.24	< 0.24	< 0.24	NA	< 0.24	< 0.24	< 0.24	< 0.24	< 0.39	< 0.56	< 0.28	< 0.28	< 0.7
Methylene chloride	0.5	5	< 0.68	< 0.68	< 0.68	< 0.68	NA	< 0.68	< 0.68	< 0.68	< 0.68	< 1.6	< 0.56	< 0.28	< 0.28	< 0.7
Naphthalene	10	100	< 0.16	< 0.16	< 0.16	< 0.16	NA	< 0.16	< 0.16	< 0.16	< 0.16	< 0.34	< 0.35	< 0.18	< 0.18	0.45 BJ
n-Butylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.13	NA	< 0.13	< 0.13	< 0.13	< 0.13	< 0.39	< 0.56	< 0.28	< 0.28	< 0.7
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.84	< 0.42	< 0.42	< 1.1
n-Propylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.13	NA	< 0.13	< 0.13	< 0.13	< 0.13	< 0.41	< 0.40	< 0.20	< 0.2	< 0.5
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.23	< 0.12	< 0.12	< 0.29
p-Isopropyltoluene	NE	NE	< 0.17	< 0.17	< 0.17	< 0.17	NA	< 0.17	< 0.17	< 0.17	< 0.17	< 0.36	< 0.34	< 0.17	< 0.17	< 0.43
sec-Butylbenzene	NE	NE	< 0.15	< 0.15	< 0.15	< 0.15	NA	< 0.15	< 0.15	< 0.15	< 0.15	< 0.40	< 0.52	< 0.26	< 0.26	< 0.65
Styrene	10	100	< 0.1	< 0.1	< 0.1	< 0.1	NA	< 0.1	< 0.10	< 0.10	< 0.10	< 0.39	< 0.26	< 0.13	< 0.13	0.35 BJ
tert-Butylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.14	NA	< 0.14	< 0.14	< 0.14	< 0.14	< 0.40	< 0.48	< 0.24	< 0.24	< 0.6
Tetrachloroethene	0.5	5	***290***	***580***	***420***	***240***	NA	***130***	***210***	***190***	***190***	***360***	***66***	***88***	***120 B***	***120 B***
Toluene	160	800	1.3	< 0.11	< 0.11	< 0.11	NA	< 0.11	< 0.11	< 0.11	< 0.11	< 0.15	< 0.21	< 0.11	< 0.11	< 0.27
trans-1,2-Dichloroethene	20	100	< 0.25	< 0.25	< 0.25	< 0.25	NA	< 0.25	< 0.25	< 0.25	< 0.25	< 0.35	< 0.44	< 0.22	< 0.22	< 0.55
Trichloroethene	0.5	5	***0.64***	***1.4***	***20***	***17***	NA	***15***	***11***	***11***	***10***	***5.9***	***7.2***	***9.1***	***7.8***	***7.6***
Trichlorofluoromethane	698	3490	< 0.19	< 0.19	< 0.19	< 0.19	NA	< 0.19	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1	< 2.5
Vinyl chloride	0.02	0.2	< 0.1	< 0.1	< 0.1	< 0.1	NA	< 0.1	< 0.10	< 0.10	< 0.10	< 0.20	< 0.64	< 0.32	< 0.32	< 0.8
Xylenes, Total	400	2000	0.95 J	< 0.068	< 0.068	< 0.068	NA	< 0.068	< 0.068	< 0.068	< 0.068	< 0.22	< 0.23	< 0.12	< 0.23	< 0.58
Total PCBs																
Aroclor-1016	0.003	0.03	< 0.19	NA	< 0.063	< 0.028	NA	< 0.066	NA	NA	NA	NA	NA	NA	< 0.035	< 0.035
Aroclor-1232	0.003	0.03	< 0.11	NA	< 0.19	< 0.083	NA	< 0.2	NA	NA	NA	NA	NA	NA	< 0.037	< 0.037
Aroclor-1242	0.003	0.03	< 0.15	NA	< 0.19	< 0.083	NA	< 0.2	NA	NA	NA	NA	NA	NA	< 0.038	< 0.038
Aroclor-1248	0.003	0.03	< 0.13	NA	< 0.19	< 0.083	NA	< 0.2	NA	NA	NA	NA	NA	NA	***0.034 J***	< 0.02
Total Detected PCBs	0.003	0.03	ND	NA	ND	ND	NA	ND	NA	NA	NA	NA	NA	NA	***0.034 J***	ND
Dissolved PCBs																
Aroclor-1016	0.003	0.03	NA	NA	< 0.063	NA	< 0.026	< 0.064	NA	< 0.063	< 0.063	< 0.063	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	< 0.19	NA	< 0.078	< 0.19	NA	< 0.19	< 0.19	< 0.19	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	< 0.19	NA	< 0.078	< 0.19	NA	< 0.19	< 0.19	< 0.19	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	< 0.19	NA	< 0.078	< 0.19	NA	< 0.19	< 0.19	< 0.19	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	ND	NA	ND	ND	NA	ND	ND	ND	NA	NA	NA	NA
Solids																
Total Dissolved Solids (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	478	NA	656	644
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.8	NA	16.8	18

Notes on Page 56.

Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-23D	MW-23D	MW-23D	MW-23D	MW-23D	MW-23D	MW-23D	MW-23D	MW-23D	MW-23D	MW-23D	MW-23D	MW-23D	MW-23D	MW-23D	MW-23D[3]	MW-23D	MW-23D[3]
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	01/14/2013	03/08/2013	04/19/2013	04/20/2013	07/17/2013	10/10/2013	04/18/2014	10/20/2014	04/09/2015	10/20/2015	01/22/2016	04/21/2016	07/20/2016	10/14/2016	1/20/2017	04/11/2017	04/11/2017	10/06/2017	10/06/2017
VOCs																					
1,1,1,2-Tetrachloroethane	7	70	< 0.25	NA	< 0.25	NA	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.46	< 0.11	< 2.2	< 0.55	< 0.11	< 1.1	< 1.1	< 0.11	< 0.55	< 0.55
1,1,1-Trichloroethane	40	200	< 0.2	NA	< 0.2	NA	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.38	< 0.10	< 2.0	< 0.50	< 0.10	< 1.0	< 1.0	< 0.10	< 0.5	< 0.5
1,1,2-Trichloroethane	0.5	5	< 0.28	NA	< 0.28	NA	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.35	< 0.10	< 2.0	< 0.50	< 0.10	< 1.0	< 1.0	< 0.10	< 0.5	< 0.5
1,1-Dichloroethene	0.7	7	< 0.31	NA	< 0.31	NA	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.39	< 0.14	< 2.8	< 0.70	< 0.14	< 1.4	< 1.4	< 0.14	< 0.7	< 0.7
1,2,4-Trimethylbenzene	96	480	< 0.14	NA	< 0.14	NA	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.36	< 0.060	< 1.2	< 0.30	< 0.060	< 0.60	< 0.60	< 0.060	< 0.3	< 0.3
1,2-Dibromoethane	0.005	0.05	< 0.36	NA	< 0.36	NA	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.39	< 0.13	< 2.6	< 0.65	< 0.13	< 1.3	< 1.3	< 0.13	< 0.65	< 0.65
1,2-Dichlorobenzene	60	600	< 0.27	NA	< 0.27	NA	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.33	< 0.076	< 1.5	< 0.38	< 0.076	< 0.76	< 0.76	< 0.076	< 0.38	< 0.38
1,2-Dichloropropane	0.5	5	< 0.2	NA	< 0.2	NA	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.43	< 0.10	< 2.0	< 0.50	< 0.10	< 1.0	< 1.0	< 0.10	< 0.5	< 0.5
1,2,3-Trichlorobenzene	NE	NE	< 0.24	NA	< 0.24	NA	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.045	< 0.90	< 0.23	< 0.045	< 0.45	< 0.45	< 0.045	< 0.23	< 0.23
1,2,4-Trichlorobenzene	14	70	< 0.31	NA	< 0.31	NA	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.34	< 0.077	< 1.5	< 0.39	< 0.077	< 0.77	< 0.77	< 0.077	< 0.39	< 0.39
1,3,5-Trimethylbenzene	96	480	< 0.18	NA	< 0.18	NA	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.25	< 0.075	< 1.5	< 0.38	< 0.075	< 0.75	< 0.75	< 0.075	< 0.38	< 0.38
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.0	< 60	< 15	< 3.0	< 30	< 30	< 3.0	< 15	< 15
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.95	< 19	< 4.8	< 0.95	< 9.5	< 9.5	< 0.95	< 4.8	< 4.8
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.77	< 15	< 3.9	< 0.77	< 7.7	< 7.7	< 0.77	< 3.9	< 3.9
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.4	< 68	< 17	< 3.4	< 34	< 34	9.6 BJ	< 17	< 17
Benzene	0.5	5	0.32 J	NA	< 0.074	NA	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.15	< 0.089	< 1.8	< 0.45	< 0.089	< 0.89	< 0.89	< 0.089	< 0.45	< 0.45
Bromodichloromethane	0.06	0.6	< 0.17	NA	< 0.17	NA	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.37	< 0.077	< 1.5	< 0.39	< 0.077	***1.1 BJ***	< 0.77	< 0.077	< 0.39	< 0.39
Bromoform	0.44	4.4	< 0.28	NA	< 0.28	NA	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.48	< 0.088	< 1.8	< 0.44	< 0.088	< 0.88	< 0.88	< 0.088	< 0.44	< 0.44
Bromomethane	1	10	< 0.31	NA	< 0.31	NA	< 0.31	< 0.31	< 0.31	< 0.31 *	< 0.31	< 0.80	< 0.59	< 12	< 3.0	< 0.59	< 5.9	< 5.9	< 0.59	< 3	< 3
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.053	< 1.1	< 0.27	< 0.053	1.4 J	< 0.53	< 0.053	< 0.27	< 0.27
Carbon tetrachloride	0.5	5	< 0.26	NA	< 0.26	NA	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.38	< 0.038	< 0.76	< 0.19	< 0.038	< 0.38	< 0.38	< 0.038	< 0.19	< 0.19
Chloroform	0.6	6	< 0.2	NA	< 0.2	NA	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.37	< 0.062	***2.2 BJ***	< 0.31	< 0.062	***1.1 BJ***	***1.1 J***	< 0.062	< 0.31	< 0.31
Chloromethane	3	30	< 0.18	NA	< 0.18	NA	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.32	< 0.16	< 3.2	< 0.80	< 0.16	***3.2 BJ***	< 1.6	< 0.16	1.5 J	***4.3 J***
cis-1,2-Dichloroethene	7	70	< 0.12	NA	< 0.12	NA	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.41	< 0.11	< 2.2	< 0.55	< 0.11	< 1.1	< 1.1	< 0.11	< 0.55	< 0.55
Dichlorodifluoromethane	200	1000	< 0.2	NA	< 0.2	NA	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.54	0.27 J	< 2.2	< 0.55	< 0.11	< 1.1	< 1.1	< 0.11	< 0.55	< 0.55
Ethylbenzene	140	700	0.20 J	NA	< 0.13	NA	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.18	< 0.054	< 1.1	< 0.27	< 0.054	< 0.54	< 0.54	< 0.054	< 0.27	< 0.27
Isopropylbenzene	NE	NE	< 0.14	NA	< 0.14	NA	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.39	< 0.081	< 1.6	< 0.41	< 0.081	< 0.81	< 0.81	< 0.081	< 0.41	< 0.41
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.057	< 1.1	< 0.29	< 0.057	< 0.57	< 0.57	< 0.057	< 0.29	< 0.29
Methyl tert-butyl ether	12	60	< 0.24	NA	< 0.24	NA	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.39	< 0.14	< 2.8	< 0.70	< 0.14	< 1.4	< 1.4	< 0.14	< 0.7	< 0.7
Methylene chloride	0.5	5	< 0.68	NA	< 0.68	NA	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 1.6	***0.57 J***	< 2.8	< 0.70	< 0.14	***1.8 BJ***	< 1.4	< 0.14	< 0.7	< 0.7
Naphthalene	10	100	< 0.16	NA	< 0.16	NA	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.34	< 0.088	< 1.8	< 0.44	< 0.088	< 0.88	< 0.88	< 0.088	< 0.44	< 0.44
n-Butylbenzene	NE	NE	< 0.13	NA	< 0.13	NA	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.39	< 0.14	< 2.8	< 0.70	< 0.14	< 1.4	< 1.4	< 0.14	< 0.7	< 0.7
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	< 4.2	< 1.1	< 0.21	< 2.1	< 2.1	< 0.21	< 1.1	< 1.1
n-Propylbenzene	NE	NE	< 0.13	NA	< 0.13	NA	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.41	< 0.10	< 2.0	< 0.50	< 0.10	< 1.0	< 1.0	< 0.10	< 0.5	< 0.5
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.058	< 1.2	< 0.29	< 0.058	< 0.58	< 0.58	< 0.058	< 0.29	< 0.29
p-Isopropyltoluene	NE	NE	< 0.17	NA	< 0.17	NA	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.36	< 0.085	< 1.7	< 0.43	< 0.085	< 0.85	< 0.85	< 0.085	< 0.43	< 0.43
sec-Butylbenzene	NE	NE	< 0.15	NA	< 0.15	NA	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.40	< 0.13	< 2.6	< 0.65	< 0.13	< 1.3	< 1.3	< 0.13	< 0.65	< 0.65
Styrene	10	100	< 0.1	NA	< 0.1	NA	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.39	< 0.065	< 1.3	< 0.33	< 0.065	< 0.65	< 0.65	< 0.065	0.45 J	< 0.33
tert-Butylbenzene	NE	NE	< 0.14	NA	< 0.14	NA	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.40	< 0.12	< 2.4	< 0.60	< 0.12	< 1.2	< 1.2	< 0.12	< 0.6	< 0.6
Tetrachloroethene	0.5	5	***100***	NA	***86***	NA	***170***	***160***	***190***	***190***	***220***	***84***	***170***	***130***	***160***	***160***	***140***	***140***	***140***	***130 B***	***130 B***
Toluene	160	800	0.60	NA	< 0.11	NA	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.15	< 0.053	< 1.1	< 0.27	< 0.053	1.6 BJ	< 0.53	< 0.053	< 0.27	< 0.27
trans-1,2-Dichloroethene	20	100	< 0.25	NA	< 0.25	NA	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.35	< 0.11	< 2.2	< 0.55	< 0.11	< 1.1	< 1.1	< 0.11	< 0.55	< 0.55
Trichloroethene	0.5	5	< 0.19	NA	***0.53***	NA	0.21 J	< 0.19	< 0.19	0.27 J	< 0.19	< 0.16	0.22 J	< 1.2	< 0.31	0.19 J	< 0.62	< 0.62	0.16 J	< 0.31	< 0.31
Trichlorofluoromethane	698	3490	< 0.19	NA	< 0.19	NA	< 0.19	< 0.19	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 10	< 2.5	< 0.50	< 5.0	< 5.0	< 0.50	< 2.5	< 2.5
Vinyl chloride	0.02	0.2	< 0.1	NA	< 0.1	NA	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.20	< 0.16	< 3.2	< 0.80	< 0.16	< 1.6	< 1.6	< 0.16	< 0.8	< 0.8
Xylenes, Total	400	2000	0.68 J	NA	< 0.068	NA	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.22	< 0.058	< 1.2	< 0.29	< 0.058	< 1.2	< 1.2	< 0.12	< 0.58	< 0.58
Total PCBs																					
Aroclor-1016	0.003	0.03	< 0.16	< 0.034	NA	< 0.065	< 0.067	< 0.064	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.035	< 0.035
Aroclor-1232	0.003	0.03	< 0.089	< 0.1	NA	< 0.19	< 0.2	< 0.19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.037	< 0.037
Aroclor-1242	0.003	0.03	***0.24 J***	< 0.1	NA	< 0.19	< 0.2	< 0.19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.038	< 0.038
Aroclor-1248	0.003	0.03	< 0.11	< 0.1	NA	< 0.19	< 0.2	< 0.19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.02	< 0.02
Total Detected PCBs	0.003	0.03	***0.24 J***	ND	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND
Dissolved PCBs																					
Aroclor-1016	0.003	0.03	NA	< 0.034	NA	< 0.066	< 0.068	< 0.065	NA	< 0.063	< 0.063	< 0.065	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	< 0.1	NA	< 0.2	< 0.2	< 0.19	NA	< 0.19	< 0.19	< 0.19	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	< 0.1	NA	< 0.2	< 0.2	< 0.19	NA	< 0.19	< 0.19	< 0.19	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	< 0.1	NA	< 0.2	< 0.2	< 0.19	NA	< 0.19	< 0.19	< 0.19	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	ND	NA	ND	ND	ND	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																					
Total Dissolved Solids (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	524	534
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.95	< 0.95

Notes on Page 56.

Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-24	MW-24	MW-24	MW-24	MW-24	MW-24	MW-24	MW-24	MW-24	MW-25D	MW-25D[3]	MW-25D	MW-25D	MW-25D	MW-25D	MW-25D	MW-25D	MW-25D	MW-25D	MW-25D	MW-25D	MW-25D	MW-25D	MW-25D[3]
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	30 - 40 ft	30 - 40 ft	30 - 40 ft	30 - 40 ft	30 - 40 ft	30 - 40 ft	30 - 40 ft	30 - 40 ft	30 - 40 ft	120 - 130 ft	120 - 130 ft	120 - 130 ft	120 - 130 ft	120 - 130 ft	120 - 130 ft	120 - 130 ft	120 - 130 ft	120 - 130 ft	120 - 130 ft	120 - 130 ft	120 - 130 ft	120 - 130 ft	120 - 130 ft	120 - 130 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	04/29/2013	07/19/2013	10/08/2013	04/17/2014	10/14/2014	10/09/2017	04/05/2018	10/15/2018	04/09/2019	05/06/2013	05/06/2013	07/19/2013	10/09/2013	04/21/2014	07/09/2014	08/26/2014	10/20/2014	01/28/2015	04/10/2015	07/21/2015	10/19/2015	10/11/2016	10/03/2017	10/10/2018	10/10/2018
VOCs																											
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	NA	NA	NA	NA	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.46	< 0.11	< 0.11	< 0.11	< 0.11
1,1,1-Trichloroethane	40	200	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	NA	NA	NA	NA	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.38	< 0.10	< 0.1	< 0.10	< 0.10
1,1,2-Trichloroethane	0.5	5	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	NA	NA	NA	NA	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.35	< 0.10	< 0.1	< 0.10	< 0.10
1,1-Dichloroethene	0.7	7	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	NA	NA	NA	NA	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.39	< 0.14	< 0.14	< 0.14	< 0.14
1,2,4-Trimethylbenzene	96	480	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	NA	NA	NA	NA	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.36	< 0.060	< 0.06	< 0.060	< 0.060
1,2-Dibromoethane	0.005	0.05	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	NA	NA	NA	NA	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.39	< 0.13	< 0.13	< 0.13	< 0.13
1,2-Dichlorobenzene	60	600	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	NA	NA	NA	NA	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.33	< 0.076	< 0.076	< 0.076	< 0.076
1,2-Dichloropropane	0.5	5	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	NA	NA	NA	NA	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.43	< 0.10	< 0.1	< 0.10	< 0.10
1,2,3-Trichlorobenzene	NE	NE	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	NA	NA	NA	NA	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.045	< 0.045	< 0.045	< 0.045
1,2,4-Trichlorobenzene	14	70	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	NA	NA	NA	NA	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.34	< 0.077	< 0.077	< 0.077	< 0.077
1,3,5-Trimethylbenzene	96	480	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	NA	NA	NA	NA	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.25	< 0.075	< 0.075	< 0.075	< 0.075
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.0	< 3	< 3.0	< 3.0
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.95	< 0.95	< 0.95	< 0.95
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.77	< 0.77	< 0.77	< 0.77
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.4	< 3.4	< 3.7 U	< 3.4
Benzene	0.5	5	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	NA	NA	NA	NA	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.15	< 0.089	< 0.089	< 0.089	< 0.089
Bromodichloromethane	0.06	0.6	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	NA	NA	NA	NA	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.37	< 0.077	< 0.077	< 0.077	< 0.077
Bromoform	0.44	4.4	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	NA	NA	NA	NA	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.48	< 0.088	< 0.088	< 0.088	< 0.088
Bromomethane	1	10	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31 *	NA	NA	NA	NA	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.80	< 0.59	< 0.59	< 0.72 U	< 0.59
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.053	< 0.053	< 0.053	< 0.053
Carbon tetrachloride	0.5	5	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	NA	NA	NA	NA	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.38	< 0.038	< 0.038	< 0.038	< 0.038
Chloroform	0.6	6	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	NA	NA	NA	NA	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.37	< 0.062	0.08 J	< 0.062	< 0.062
Chloromethane	3	30	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	NA	NA	NA	NA	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.32	0.37 BJ	0.82 J+	< 0.65 U	< 0.16
cis-1,2-Dichloroethene	7	70	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	NA	NA	NA	NA	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.41	< 0.11	< 0.11	< 0.11	< 0.11
Dichlorodifluoromethane	200	1000	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	NA	NA	NA	NA	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.54	< 0.11	< 0.11	< 0.11	< 0.11
Ethylbenzene	140	700	< 0.13	0.31 J	< 0.13	< 0.13	< 0.13	NA	NA	NA	NA	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	0.35 J	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.18	< 0.054	< 0.054	< 0.054	< 0.054
Isopropylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	NA	NA	NA	NA	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.39	< 0.081	< 0.081	< 0.081	< 0.081
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.057	0.06 BJ	< 0.057	< 0.057
Methyl tert-butyl ether	12	60	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	NA	NA	NA	NA	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.39	< 0.14	< 0.14	< 0.14	< 0.14
Methylene chloride	0.5	5	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	NA	NA	NA	NA	< 0.68	< 0.68	< 0.68	***5.3***	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 1.6	0.23 J	***0.51 J***	< 0.54 U	< 0.42 U
Naphthalene	10	100	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	NA	NA	NA	NA	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16 *	< 0.16	< 0.16	< 0.16	< 0.34	< 0.088	< 0.088	< 0.13 U	< 0.088
n-Butylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	NA	NA	NA	NA	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.39	< 0.14	< 0.14	< 0.14	< 0.14
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	< 0.21	< 0.21	< 0.21
n-Propylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	NA	NA	NA	NA	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.41	< 0.10	< 0.1	< 0.10	< 0.10
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.058	< 0.058	< 0.058	< 0.058
p-Isopropyltoluene	NE	NE	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	NA	NA	NA	NA	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.36	< 0.085	< 0.085	< 0.085	< 0.085
sec-Butylbenzene	NE	NE	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	NA	NA	NA	NA	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.40	< 0.13	< 0.13	< 0.13	< 0.13
Styrene	10	100	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	NA	NA	NA	NA	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.39	< 0.065	0.07 BJ	< 0.065	< 0.065
tert-Butylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	NA	NA	NA	NA	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.40	< 0.12	< 0.12	< 0.12	< 0.12
Tetrachloroethene	0.5	5	***3***	***3***	***3.3***	***2.8***	***0.83 J***	NA	NA	NA	NA	***0.76 J***	< 0.17	***2.8***	***3.1***	***1.3***	***1.2***	***1.1***	***0.54 J***	***0.86 J***	< 0.17	***0.66 J***	***0.51 J***	***0.55***	0.37 J-	0.33 J	0.36 J
Toluene	160	800	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	NA	NA	NA	NA	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	0.49 J	0.73	< 0.11	< 0.11	< 0.11	< 0.11	0.55	0.090 J	0.07 BJ	< 0.053	< 0.053
trans-1,2-Dichloroethene	20	100	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	NA	NA	NA	NA	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.35	< 0.11	< 0.11	< 0.11	< 0.11
Trichloroethene	0.5	5	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	NA	NA	NA	NA	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.16	< 0.062	< 0.062	< 0.062	< 0.062
Trichlorofluoromethane	698	3490	< 0.19	< 0.19	< 0.19	< 1.0	< 1.0	NA	NA	NA	NA	< 0.19	< 0.19	< 0.19	< 0.19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 0.5	< 0.13	< 0.13
Vinyl chloride	0.02	0.2	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	NA	NA	NA	NA	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.16	< 0.16	< 0.16	< 0.16
Xylenes, Total	400	2000	< 0.068	0.37 J	< 0.068	< 0.068	< 0.068	NA	NA	NA	NA	< 0.068	< 0.068	0.36 J	< 0.068	< 0.068	1.6	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	1.9	< 0.058	< 0.12	< 0.12	< 0.12
Total PCBs																											
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	< 0.035	< 0.035	< 0.0072	< 0.0072	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	< 0.037	< 0.037	< 0.0042	< 0.0042	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	< 0.038	< 0.038	< 0.013	< 0.013	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	< 0.02	< 0.020	< 0.011	< 0.011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																											
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																											
Total Dissolved Solids (mg/L)	NE	NE	NA	NA	NA	NA	NA	2060	2300	2120	2170	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	1 J	1.2 J	1.8	3.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes on Page 56.

Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-25D2	MW-25D2	MW-25D2	MW-25D2	MW-25D2	MW-25D2	MW-25D2	MW-25D2	MW-25D2	MW-25D2	MW-25D2	MW-25D2	MW-25D2	MW-25D2	MW-25D2	MW-25D2	MW-25D2	MW-25D2	MW-25D2[3]	MW-25D2	MW-25D2
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	05/06/2013	07/19/2013	10/04/2013	04/21/2014	07/10/2014	08/26/2014	10/22/2014	01/28/2015	04/10/2015	07/21/2015	10/19/2015	01/21/2016	04/20/2016	07/19/2016	10/11/2016	1/19/2017	04/12/2017	10/03/2017	04/03/2018	10/10/2018	04/10/2019
VOCs																							
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.46	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.27
1,1,1-Trichloroethane	40	200	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.38	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	< 0.10	< 0.10	< 0.24
1,1,2-Trichloroethane	0.5	5	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.35	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	< 0.10	< 0.10	< 0.55
1,1-Dichloroethene	0.7	7	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.39	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.24
1,2,4-Trimethylbenzene	96	480	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.36	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.06	< 0.060	< 0.060	< 0.84
1,2-Dibromoethane	0.005	0.05	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.39	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.83
1,2-Dichlorobenzene	60	600	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.33	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.71
1,2-Dichloropropane	0.5	5	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.43	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	< 0.10	< 0.10	< 0.28
1,2,3-Trichlorobenzene	NE	NE	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	0.070 J	< 0.045	< 0.63
1,2,4-Trichlorobenzene	14	70	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.34	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.95
1,3,5-Trimethylbenzene	96	480	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.25	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.87
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3	< 3.0	< 3.0	< 2.9
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 2.5
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 1.5
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 4.9 U	< 2.7
Benzene	0.5	5	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.15	< 0.089	< 0.089	< 0.089	< 0.089	< 0.089	< 0.089	< 0.089	< 0.089	< 0.089	< 0.25
Bromodichloromethane	0.06	0.6	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.37	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.36
Bromoform	0.44	4.4	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.48	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 4.0
Bromomethane	1	10	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.80	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.97
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	0.44 J	< 0.053	< 0.053	< 0.053	< 0.37
Carbon tetrachloride	0.5	5	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.38	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.17
Chloroform	0.6	6	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.37	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	0.12 J	< 0.062	< 0.062	< 0.062	< 1.3
Chloromethane	3	30	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.32	< 0.16	< 0.16	0.17 J	0.68 BJ	< 0.16	0.64 J	0.37 J+	< 0.16	< 0.16	< 2.2
cis-1,2-Dichloroethene	7	70	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.41	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.27
Dichlorodifluoromethane	200	1000	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.54	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.50
Ethylbenzene	140	700	< 0.13	< 0.13	< 0.13	< 0.13	0.47 J	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.18	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.22
Isopropylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.39	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.39
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.47
Methyl tert-butyl ether	12	60	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.39	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 1.2
Methylene chloride	0.5	5	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 1.6	0.38 J	< 0.14	< 0.14	< 0.14	0.14 BJ	< 0.14	< 0.14	0.14 J+	< 0.14	< 0.31 U	< 0.58
Naphthalene	10	100	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.34	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	0.31 BJ	< 0.088	0.31 BJ	< 0.088	< 0.088	< 1.2
n-Butylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.39	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.71
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 1.7
n-Propylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.41	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	< 0.10	< 0.10	< 0.10	< 0.81
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.26
p-Isopropyltoluene	NE	NE	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.36	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.80
sec-Butylbenzene	NE	NE	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.40	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.85
Styrene	10	100	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.39	< 0.065	< 0.065	0.14 J	< 0.065	< 0.065	< 0.065	0.08 BJ	< 0.065	< 0.065	< 0.065	< 0.47
tert-Butylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.40	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.30
Tetrachloroethene	0.5	5	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.37	< 0.081	< 0.081	< 0.081	< 0.081	0.090 BJ	< 0.081	0.1 J-	0.14 J	0.11 J	< 0.081	< 0.33
Toluene	160	800	< 0.11	< 0.11	< 0.11	< 0.11	0.63	1.2	< 0.11	< 0.11	< 0.11	< 0.11	< 0.15	< 0.053	< 0.053	< 0.053	0.11 J	< 0.053	0.16 J	0.07 BJ	< 0.053	< 0.053	< 0.053	< 0.17
trans-1,2-Dichloroethene	20	100	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.35	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 1.1
Trichloroethene	0.5	5	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.16	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.26
Trichlorofluoromethane	698	3490	< 0.19	< 0.19	< 0.19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.5	< 0.5	< 0.5	< 0.13	< 0.21
Vinyl chloride	0.02	0.2	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.17
Xylenes, Total	400	2000	< 0.068	< 0.068	< 0.068	< 0.068	2.5	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.22	< 0.058	< 0.058	< 0.058	< 0.058	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 1.5
Total PCBs																							
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																							
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																							
Total Dissolved Solids (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-26S	MW-26S	MW-26S	MW-26S	MW-26S	MW-27D	MW-27D[3]	MW-27D	MW-27D	MW-27D	MW-27D	MW-27D	MW-27D	MW-27D	MW-27D	MW-27D	MW-27D	MW-27D[3]	MW-27D	MW-27D	MW-27D	MW-27D	MW-27D
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	6.8 - 16.8 ft	6.8 - 16.8 ft	6.8 - 16.8 ft	6.8 - 16.8 ft	6.8 - 16.8 ft	130 - 140 ft	130 - 140 ft	130 - 140 ft	130 - 140 ft	130 - 140 ft	130 - 140 ft	130 - 140 ft	130 - 140 ft	130 - 140 ft	130 - 140 ft	130 - 140 ft	130 - 140 ft	130 - 140 ft	130 - 140 ft	130 - 140 ft	130 - 140 ft	130 - 140 ft	130 - 140 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	08/23/2013	10/09/2013	04/22/2014	07/10/2014	10/15/2014	12/26/2013	12/26/2013	04/18/2014	07/09/2014	10/21/2014	01/29/2015	04/14/2015	07/21/2015	10/20/2015	01/21/2016	04/20/2016	07/19/2016	10/11/2016	1/19/2017	1/19/2017	04/11/2017	10/04/2017	04/03/2018	10/10/2018	04/10/2019
VOCs																										
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.46	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.27
1,1,1-Trichloroethane	40	200	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.38	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	< 0.10	< 0.10	< 0.24
1,1,2-Trichloroethane	0.5	5	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.35	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	< 0.10	< 0.10	< 0.55
1,1-Dichloroethene	0.7	7	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.39	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.24
1,2,4-Trimethylbenzene	96	480	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.36	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.06	< 0.060	< 0.060 J-	< 0.84
1,2-Dibromoethane	0.005	0.05	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.39	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.83
1,2-Dichlorobenzene	60	600	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.33	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.71
1,2-Dichloropropane	0.5	5	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.43	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	< 0.10	< 0.10	< 0.28
1,2,3-Trichlorobenzene	NE	NE	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.63
1,2,4-Trichlorobenzene	14	70	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.34	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.95
1,3,5-Trimethylbenzene	96	480	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.25	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.87
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3	< 3.0	< 3.0	< 2.9
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 2.5
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 1.5
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.1 J	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	3.7 BJ	< 3.4	< 3.8 U	< 2.7
Benzene	0.5	5	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.15	< 0.089	< 0.089	< 0.089	< 0.089	< 0.089	< 0.089	< 0.089	< 0.089	< 0.089	< 0.089	< 0.25
Bromodichloromethane	0.06	0.6	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.37	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.36
Bromoform	0.44	4.4	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.48	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 4.0
Bromomethane	1	10	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31 *	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.80	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.97
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.37
Carbon tetrachloride	0.5	5	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.38	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.17
Chloroform	0.6	6	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.37	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 1.3
Chloromethane	3	30	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.32	< 0.16	< 0.16	< 0.16	0.53 BJ	< 0.16	< 0.16	< 0.16	0.4 J+	< 0.16	< 0.57 U	< 2.2
cis-1,2-Dichloroethene	7	70	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	0.85 J	0.83 J	2.6	2.5	1.1	2.4	2.2	2.4	5.5	1.9	1.7	1.5	0.54	0.99 B	1.1 B	1.2	0.89	0.56	0.20 J	1.1
Dichlorodifluoromethane	200	1000	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.54	< 0.11	< 0.11	0.12 J	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.50
Ethylbenzene	140	700	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	0.55	< 0.13	< 0.13	< 0.13	< 0.13	< 0.18	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.22
Isopropylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.39	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.39
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	0.06 BJ	0.080 J	< 0.057	< 0.47
Methyl tert-butyl ether	12	60	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	1.3	< 0.24	< 0.24	0.92 J	< 0.24	0.86 J	< 0.39	0.68	0.68	0.62	< 0.14	0.42 J	0.38 J+	0.51	0.39 J	< 0.14	< 0.14	< 1.2
Methylene chloride	0.5	5	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 1.6	0.41 J	< 0.14	< 0.14	< 0.14	0.16 BJ	< 0.14	< 0.14	< 0.14	0.16 J	< 0.36 U	< 0.58
Naphthalene	10	100	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.34	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 1.2
n-Butylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.39	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.71
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 1.7
n-Propylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.41	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1	< 0.10	< 0.10	< 0.81
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.26
p-Isopropyltoluene	NE	NE	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.36	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.80
sec-Butylbenzene	NE	NE	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.40	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.85
Styrene	10	100	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.39	< 0.065	< 0.065	0.36 J	< 0.065	< 0.065	< 0.065	< 0.065 J	0.07 BJ	< 0.065	< 0.065 J-	< 0.47
tert-Butylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.40	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.30
Tetrachloroethene	0.5	5	***1.4***	< 0.17	< 0.17	< 0.17	< 0.17	***1.8***	***1.8***	***5.4***	***5***	***1.7***	***4.2***	***3.8***	***5***	***13***	***4.5***	***3.4***	***2.1***	***1.1***	***1.9 B***	***2.3 B***	***2.1 B***	***1.9***	***1.2***	0.27 J	***2.7***
Toluene	160	800	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	0.53	0.49 J	< 0.11	0.47 J	< 0.11	< 0.11	< 0.11	< 0.11	< 0.15	< 0.053	< 0.053	< 0.053	< 0.053	0.060 BJ	0.11 BJ	< 0.053	0.09 BJ	0.090 J	< 0.053	< 0.17
trans-1,2-Dichloroethene	20	100	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.35	0.17 J	0.16 J	0.17 J	< 0.11	< 0.11	< 0.11	0.13 J	0.13 J	0.19 J	< 0.11	< 1.1
Trichloroethene	0.5	5	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	***1.3***	***1.2***	***3.5***	***3.5***	***1.7***	***3.2***	***2.9***	***3.4***	***12***	***2.8***	***2.6***	***2.1***	***1.3***	***1.7 B***	***2.1***	***2.1***	***1.6***	***1.2***	***0.61***	***1.7***
Trichlorofluoromethane	698	3490	< 0.19	< 0.19	< 1.0	< 1.0	< 1.0	< 0.19	< 0.19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.5	< 0.5	< 0.13	< 0.21
Vinyl chloride	0.02	0.2	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.17
Xylenes, Total	400	2000	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	3.0	< 0.068	< 0.068	< 0.068	< 0.068	< 0.22	< 0.058	< 0.058	< 0.058	< 0.058	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 1.5
Total PCBs																											
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																											
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																											
Total Dissolved Solids (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes on Page 56.

Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-27D2	MW-27D2	MW-27D2	MW-27D2[3]	MW-27D2	MW-27D2	MW-27D2[3]	MW-27D2	MW-27D2	MW-27D2[3]	MW-27D2	MW-27D2	MW-27D2[3]	MW-27D2	MW-27D2
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	170 - 180 ft	170 - 180 ft	170 - 180 ft	170 - 180 ft	170 - 180 ft	170 - 180 ft	170 - 180 ft	170 - 180 ft	170 - 180 ft	170 - 180 ft	170 - 180 ft	170 - 180 ft	170 - 180 ft	170 - 180 ft	170 - 180 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	12/26/2013	04/18/2014	07/09/2014	07/09/2014	10/21/2014	01/29/2015	01/29/2015	04/14/2015	07/21/2015	07/21/2015	10/20/2015	10/11/2016	10/11/2016	10/04/2017	10/10/2018
VOCs																	
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.46	< 0.22	< 0.22	< 0.11	< 0.11
1,1,1-Trichloroethane	40	200	< 0.2	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.38	< 0.20	< 0.20	< 0.1	< 0.10
1,1,2-Trichloroethane	0.5	5	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.35	< 0.20	< 0.20	< 0.1	< 0.10
1,1-Dichloroethene	0.7	7	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.39	< 0.28	< 0.28	< 0.14	< 0.14
1,2,4-Trimethylbenzene	96	480	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.36	< 0.12	< 0.12	< 0.06	< 0.060 J-
1,2-Dibromoethane	0.005	0.05	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.39	< 0.26	< 0.26	< 0.13	< 0.13
1,2-Dichlorobenzene	60	600	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.33	< 0.15	< 0.15	< 0.076	< 0.076
1,2-Dichloropropane	0.5	5	< 0.2	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.43	< 0.20	< 0.20	< 0.1	< 0.10
1,2,3-Trichlorobenzene	NE	NE	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.090	< 0.090	< 0.045	< 0.045
1,2,4-Trichlorobenzene	14	70	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.34	< 0.15	< 0.15	< 0.077	< 0.077
1,3,5-Trimethylbenzene	96	480	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.25	< 0.15	< 0.15	< 0.075	< 0.075 J-
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 6.0	< 6.0	< 3	< 3.0
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.9	< 1.9	< 0.95	< 0.95
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.5	< 1.5	< 0.77	< 0.77
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 6.8	< 6.8	3.5 J	< 3.4
Benzene	0.5	5	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.15	< 0.18	< 0.18	< 0.089	< 0.089
Bromodichloromethane	0.06	0.6	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.37	< 0.15	< 0.15	< 0.077	< 0.077
Bromoform	0.44	4.4	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.48	< 0.18	< 0.18	< 0.088	< 0.088
Bromomethane	1	10	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.80	< 1.2	< 1.2	< 0.59	< 0.59
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.11	< 0.11	< 0.053	< 0.053
Carbon tetrachloride	0.5	5	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.38	< 0.076	< 0.076	< 0.038	< 0.038
Chloroform	0.6	6	< 0.2	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.37	< 0.12	< 0.12	< 0.062	< 0.062
Chloromethane	3	30	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.32	0.90 BJ	1.0 J	0.46 J	< 0.16
cis-1,2-Dichloroethene	7	70	3.7	***12***	***11***	***11***	***12***	***11***	***11***	***8.2***	6.1	6.1	1.8	***21***	***23***	***9.4***	***13***
Dichlorodifluoromethane	200	1000	< 0.2	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.54	< 0.22	< 0.22	< 0.11	< 0.11
Ethylbenzene	140	700	< 0.13	< 0.13	0.33 J	0.36 J	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.18	< 0.11	< 0.11	< 0.054	< 0.054
Isopropylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.39	< 0.16	< 0.16	< 0.081	< 0.081
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.11	< 0.11	< 0.057	< 0.057
Methyl tert-butyl ether	12	60	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	0.83 J	< 0.28	< 0.28	< 0.14	< 0.14	
Methylene chloride	0.5	5	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 1.6	< 0.28	< 0.28	< 0.14	< 0.33 U
Naphthalene	10	100	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.34	< 0.18	< 0.18	< 0.088	< 0.088
n-Butylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.39	< 0.28	< 0.28	< 0.14	< 0.14
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.42	< 0.42	< 0.21	< 0.21
n-Propylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.41	< 0.20	< 0.20	< 0.1	< 0.10
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.12	< 0.12	< 0.058	< 0.058
p-Isopropyltoluene	NE	NE	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.36	< 0.17	< 0.17	< 0.085	< 0.085
sec-Butylbenzene	NE	NE	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.40	< 0.26	< 0.26	< 0.13	< 0.13
Styrene	10	100	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.39	< 0.13	< 0.13	< 0.065	< 0.065 J-
tert-Butylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.40	< 0.24	< 0.24	< 0.12	< 0.12
Tetrachloroethene	0.5	5	***11***	***44***	***36***	***35***	***41***	***38***	***36***	***25***	***17***	***17***	***3.1***	***67***	***63***	***24***	***26 J-***
Toluene	160	800	0.20 J	< 0.11	0.43 J	0.41 J	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.15	< 0.11	0.18 J	0.08 J	0.060 J
trans-1,2-Dichloroethene	20	100	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.35	0.64 J	0.66 J	0.33 J	0.29 J
Trichloroethene	0.5	5	***7.2***	***25***	***21***	***20***	***23***	***23***	***23***	***17***	***15***	***16***	***2.5***	***45***	***45***	***18***	***22 J-***
Trichlorofluoromethane	698	3490	< 0.19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.5	< 0.13
Vinyl chloride	0.02	0.2	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.32	< 0.32	< 0.16	< 0.16
Xylenes, Total	400	2000	< 0.068	< 0.068	1.6	1.6	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.22	< 0.12	< 0.12	< 0.12	< 0.12
Total PCBs																	
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																	
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																	
Total Dissolved Solids (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes on Page 56.

Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-28	MW-28	MW-28	MW-28	MW-28	MW-28	MW-28	MW-29S	MW-29S	MW-29S	MW-29D	MW-29D	MW-29D
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	28 - 38 ft	28 - 38 ft	28 - 38 ft	28 - 38 ft	28 - 38 ft	28 - 38 ft	28 - 38 ft	24 - 34 ft	24 - 34 ft	24.6 - 34.4 ft	45 - 50 ft	45 - 50 ft	45.2 - 50.2 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	03/13/2015	04/09/2015	10/20/2015	10/10/2017	04/06/2018	10/17/2018	04/12/2019	04/05/2018	10/16/2018	04/12/2019	04/05/2018	10/16/2018	04/12/2019
VOCs															
1,1,1,2-Tetrachloroethane	7	70	NA	NA	NA	NA	NA	< 1.1	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	40	200	NA	NA	NA	NA	NA	< 1.0	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	0.5	5	NA	NA	NA	NA	NA	< 1.0	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	0.7	7	NA	NA	NA	NA	NA	< 1.4	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	96	480	NA	NA	NA	NA	NA	< 0.60	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	0.005	0.05	NA	NA	NA	NA	NA	< 1.3	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	60	600	NA	NA	NA	NA	NA	< 0.76	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	0.5	5	NA	NA	NA	NA	NA	< 1.0	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	NE	NE	NA	NA	NA	NA	NA	< 0.45	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	14	70	NA	NA	NA	NA	NA	< 0.77	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	96	480	NA	NA	NA	NA	NA	< 0.75	NA	NA	NA	NA	NA	NA	NA
2-Butanone	800	4000	NA	NA	NA	NA	NA	< 30	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	< 9.5	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	< 7.7	NA	NA	NA	NA	NA	NA	NA
Acetone	1800	9000	NA	NA	NA	NA	NA	< 34	NA	NA	NA	NA	NA	NA	NA
Benzene	0.5	5	NA	NA	NA	NA	NA	< 0.89	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	0.06	0.6	NA	NA	NA	NA	NA	< 0.77	NA	NA	NA	NA	NA	NA	NA
Bromoform	0.44	4.4	NA	NA	NA	NA	NA	< 0.88	NA	NA	NA	NA	NA	NA	NA
Bromomethane	1	10	NA	NA	NA	NA	NA	< 5.9	NA	NA	NA	NA	NA	NA	NA
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	< 0.53	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.5	5	NA	NA	NA	NA	NA	< 0.38	NA	NA	NA	NA	NA	NA	NA
Chloroform	0.6	6	NA	NA	NA	NA	NA	< 0.62	NA	NA	NA	NA	NA	NA	NA
Chloromethane	3	30	NA	NA	NA	NA	NA	< 3.0 U	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	7	70	NA	NA	NA	NA	NA	< 1.1	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	200	1000	NA	NA	NA	NA	NA	< 1.1	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	140	700	NA	NA	NA	NA	NA	< 0.54	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	NE	NE	NA	NA	NA	NA	NA	< 0.81	NA	NA	NA	NA	NA	NA	NA
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	< 0.57	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	12	60	NA	NA	NA	NA	NA	< 1.4	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	0.5	5	NA	NA	NA	NA	NA	< 1.4	NA	NA	NA	NA	NA	NA	NA
Naphthalene	10	100	NA	NA	NA	NA	NA	< 0.88	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	NE	NE	NA	NA	NA	NA	NA	< 1.4	NA	NA	NA	NA	NA	NA	NA
n-Hexane	120	600	NA	NA	NA	NA	NA	< 2.1	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	NE	NE	NA	NA	NA	NA	NA	< 1.0	NA	NA	NA	NA	NA	NA	NA
o-Xylene	400	2000	NA	NA	NA	NA	NA	< 0.58	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	NE	NE	NA	NA	NA	NA	NA	< 0.85	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	NE	NE	NA	NA	NA	NA	NA	< 1.3	NA	NA	NA	NA	NA	NA	NA
Styrene	10	100	NA	NA	NA	NA	NA	< 0.65	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	NE	NE	NA	NA	NA	NA	NA	< 1.2	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	0.5	5	NA	NA	NA	NA	NA	***420***	NA	NA	NA	NA	NA	NA	NA
Toluene	160	800	NA	NA	NA	NA	NA	< 0.53	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	20	100	NA	NA	NA	NA	NA	< 1.1	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	0.5	5	NA	NA	NA	NA	NA	< 0.62	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	698	3490	NA	NA	NA	NA	NA	< 1.3	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	0.02	0.2	NA	NA	NA	NA	NA	< 1.6	NA	NA	NA	NA	NA	NA	NA
Xylenes, Total	400	2000	NA	NA	NA	NA	NA	< 1.2	NA	NA	NA	NA	NA	NA	NA
Total PCBs															
Aroclor-1016	0.003	0.03	NA	NA	NA	< 0.035	< 0.035	< 0.0072	< 0.0072	< 0.035	< 0.0072	< 0.0072	< 0.035	< 0.0072	< 0.0072
Aroclor-1232	0.003	0.03	NA	NA	NA	< 0.037	< 0.037	< 0.0042	< 0.0042	< 0.037	< 0.0042	< 0.0042	< 0.037	< 0.0042	< 0.0042
Aroclor-1242	0.003	0.03	NA	NA	NA	< 0.038	< 0.038	< 0.013	< 0.013	< 0.038	< 0.013	< 0.013	< 0.038	< 0.013	< 0.013
Aroclor-1248	0.003	0.03	NA	NA	NA	< 0.02	< 0.020	< 0.011	< 0.011	< 0.020	< 0.011	< 0.011	< 0.020	< 0.011	< 0.011
Total Detected PCBs	0.003	0.03	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved PCBs															
Aroclor-1016	0.003	0.03	< 0.068	< 0.064	< 0.062	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	< 0.20	< 0.19	< 0.19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	< 0.20	< 0.19	< 0.19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	< 0.20	< 0.19	< 0.19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids															
Total Dissolved Solids (mg/L)	NE	NE	NA	NA	NA	1530	1370	1570	1310	618	740	762	976	746	780
Total Suspended Solids (TSS) (mg/L)	NE	NE	NA	NA	NA	< 0.95	< 0.95	< 1.4	1.4 J	< 0.95	< 1.4	< 0.95	2.0	< 1.4	< 0.95

Notes on Page 56.

Table 17
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

Footnotes:
1 - Indicates that the sample was quenched prior to analysis.
2 - Indicates that the sample was not quenched prior to analysis.
3 - Indicates the result of a field duplicate.

Updated By: P. Popp 05/13/2019
Checked By: L.Auner 05/14/2019

General Notes:
All concentrations noted in this table are reported in micrograms per liter (µg/L) unless otherwise noted.
Analytes shown in the table are from VOC and PCB analyte lists. Only analytes that were detected in at least one sample are shown in the table. A complete list of constituents analyzed are included in the laboratory analytical reports.

100 = NR 140 Wis. Adm. Code Preventive Action Limit Exceedance
100 = NR 140 Wis. Adm. Code Enforcement Standard Exceedance
< = Constituent not detected above noted laboratory method detection limit.
* = Data is suspect and not used in evaluation. (Note from historical data through 2015, provided by Arcadis)
B = Compound was found in the blank and sample.
bgs = Below Ground Surface.
cn = Laboratory Contaminant.
E = Estimated concentration, exceeds instrumental calibration range.
ID = Identification.
J = Estimated concentration above the adjusted method detection limit and below the reporting limit or because of non-compliant laboratory quality check.
J- = Results may be biased low because of non-compliant laboratory quality check.
J+ = Results may be biased high because of non-compliant laboratory quality check.
U = Results determined to be non-detect at the concentration limit because of blank contamination.
NA = Not Analyzed.
ND = Not Detected.
NE = Not Established.
PCBs = Polychlorinated biphenyls.
VOCs = Volatile Organic Compounds.

Attachment 6

Semi-Annual Groundwater Monitoring Laboratory Analytical Reports

Pace Analytical®
ECCS Mobile Lab Services

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

May 03, 2019

Andrew Stehn
TRC Environmental Corporation, Inc.
708 Heartland Trail, Ste 3000
Madison, WI 53717

RE: Madison Kipp Corporation - Madison, WI

Enclosed are the analytical results for the samples received by the laboratory on 04/12/2019.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. These results are in compliance with the 2009 NELAC Standards and the appropriate agencies listed below, unless otherwise noted in the case narrative. This analytical report should be reproduced in its entirety.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jessica Esser
Project Manager

Certification List			Expires
DODELAP	DOD ELAP Accreditation (A2LA)	3269.01	03/31/2020
ILEPA	Illinois Secondary NELAP Accreditation	004366	04/30/2020
KDHE	Kansas Secondary NELAP Accreditation	E-10384	04/30/2020
LELAP	Louisiana Primary NELAP Accreditation	04165	06/30/2019
NCDEQ	North Carolina Dept. of Environmental Quality Accreditation	688	12/31/2019
NJDEP	New Jersey Secondary NELAP Accreditation	WI004	06/30/2019
ODEQ	Oklahoma Department of Environmental Quality Accreditation	2018-087	08/31/2019
TCEQ	Texas Secondary NELAP Accreditation	T104704504-16-7	11/30/2019
WDNR	Wisconsin Certification under NR 149	113289110	08/31/2019

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TRC Environmental Corporation, Inc.
708 Heartland Trail, Ste 3000
Madison WI, 53717

Project: Madison Kipp Corporation - Madison, WI
Project Number: 323372.0000.000000002
Project Manager: Andrew Stehn

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-2D	A191520-01	Water	04/12/2019	04/12/2019
MW-3D	A191520-02	Water	04/09/2019	04/12/2019
MW-3D2	A191520-03	Water	04/09/2019	04/12/2019
MW-4D2	A191520-04	Water	04/11/2019	04/12/2019
MW-5D	A191520-05	Water	04/08/2019	04/12/2019
MW-5D2	A191520-06	Water	04/10/2019	04/12/2019
MW-5D3	A191520-07	Water	04/10/2019	04/12/2019
MW-6D	A191520-08	Water	04/11/2019	04/12/2019
MW-9D2	A191520-09	Water	04/09/2019	04/12/2019
MW-17	A191520-10	Water	04/11/2019	04/12/2019
MW-25D2	A191520-11	Water	04/10/2019	04/12/2019
MW-27D	A191520-12	Water	04/10/2019	04/12/2019
MP-14 (135-140)	A191520-13	Water	04/08/2019	04/12/2019
MP-16 (140-144)	A191520-14	Water	04/08/2019	04/12/2019
DUP-01	A191520-15	Water	04/09/2019	04/12/2019
DUP-03	A191520-16	Water	04/11/2019	04/12/2019
FB-01	A191520-17	Water	04/12/2019	04/12/2019
Trip Blank	A191520-18	Water	04/08/2019	04/12/2019
MW-3D	A191520-19	Water	04/09/2019	04/12/2019
MW-4S	A191520-20	Water	04/11/2019	04/12/2019
MW-4D	A191520-21	Water	04/11/2019	04/12/2019
MW-5S	A191520-22	Water	04/10/2019	04/12/2019
MW-6S	A191520-23	Water	04/12/2019	04/12/2019
MW-11S	A191520-24	Water	04/09/2019	04/12/2019
MW-24	A191520-25	Water	04/09/2019	04/12/2019
MW-28	A191520-26	Water	04/12/2019	04/12/2019
MW-29S	A191520-27	Water	04/12/2019	04/12/2019
MW-29D	A191520-28	Water	04/12/2019	04/12/2019
DUP-01	A191520-29	Water	04/09/2019	04/12/2019
DUP-02	A191520-30	Water	04/11/2019	04/12/2019
FB-01	A191520-31	Water	04/12/2019	04/12/2019

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TRC Environmental Corporation, Inc.	Project: Madison Kipp Corporation - Madison, WI
708 Heartland Trail, Ste 3000	Project Number: 323372.0000.000000002
Madison WI, 53717	Project Manager: Andrew Stehn

CASE NARRATIVE

Sample Receipt Information:
31 samples were received on 04/12/2019. Samples were received on ice. Samples were received in acceptable condition, with the exception of the label discrepancy noted below.

One container for sample A191520-20 had a discrepancy between the collection date on the chain of custody (COC) and the collection date on the container. The COC collection date is correct.

VOC, TDS and TSS analysis was subcontracted to Pace Analytical in Green Bay, WI. Please see their appended report for quality control results.

Please see the COC document at the end of this report for additional information.

Sample Preparation:
Sample A191520-30 was re-extracted and re-analyzed due to a detection in the method blank for batch A904178.

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708 Heartland Trail, Ste 3000	Project Number: 323372.0000.000000002
Madison WI, 53717	Project Manager: Andrew Stehn

MW-2D

A191520-01 (Water)

Date Sampled
04/12/2019 14:28

Pace Analytical-Green Bay, WI

EPA 8260 — **Preparation Batch:MSV 46677**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	0.27	1.0	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
1,1,1-Trichloroethane	ND	0.24	1.0	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
1,1,2,2-Tetrachloroethane	ND	0.28	1.0	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
1,1,2-Trichloroethane	ND	0.55	5.0	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
1,1,2-Trichlorotrifluoroethane	ND	0.54	5.0	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
1,1-Dichloroethane	ND	0.27	1.0	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
1,1-Dichloroethene	ND	0.24	1.0	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
1,1-Dichloropropene	ND	0.54	1.8	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
1,2,3-Trichlorobenzene	ND	0.63	5.0	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
1,2,3-Trichloropropane	ND	0.59	5.0	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
1,2,4-Trichlorobenzene	ND	0.95	5.0	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
1,2,4-Trimethylbenzene	ND	0.84	2.8	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
1,2-Dibromo-3-chloropropane	ND	1.8	5.9	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
1,2-Dibromoethane (EDB)	ND	0.83	2.8	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
1,2-Dichlorobenzene	ND	0.71	2.4	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
1,2-Dichloroethane	ND	0.28	1.0	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
1,2-Dichloropropane	ND	0.28	1.0	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
1,3,5-Trimethylbenzene	ND	0.87	2.9	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
1,3-Dichlorobenzene	ND	0.63	2.1	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
1,3-Dichloropropane	ND	0.83	2.8	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
1,4-Dichlorobenzene	ND	0.94	3.1	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
2,2-Dichloropropane	ND	2.3	7.6	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
2-Butanone (MEK)	ND	2.9	20.0	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
2-Chlorotoluene	ND	0.93	5.0	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
2-Hexanone	ND	2.5	8.2	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
4-Chlorotoluene	ND	0.76	2.5	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
4-Methyl-2-pentanone (MIBK)	ND	1.5	5.1	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
Acetone	ND	2.7	20.0	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
Benzene	ND	0.25	1.0	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
Bromobenzene	ND	0.24	1.0	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
Bromochloromethane	ND	0.36	5.0	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
Bromodichloromethane	ND	0.36	1.2	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
Bromoform	ND	4.0	13.2	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
Bromomethane	ND	0.97	5.0	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
Carbon disulfide	ND	0.37	5.0	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
Carbon tetrachloride	ND	0.17	1.0	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
Chlorobenzene	ND	0.71	2.4	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
Chloroethane	ND	1.3	5.0	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
Chloroform	ND	1.3	5.0	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
Chloromethane	ND	2.2	7.3	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
Dibromochloromethane	ND	2.6	8.7	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
Dibromomethane	ND	0.94	3.1	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
Dichlorodifluoromethane	ND	0.50	5.0	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	

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Madison WI, 53717

Project: Madison Kipp Corporation - Madison, WI
Project Number: 323372.0000.000000002
Project Manager: Andrew Stehn

MW-2D

A191520-01 (Water)

Date Sampled
04/12/2019 14:28

Pace Analytical-Green Bay, WI

EPA 8260 — **Preparation Batch:MSV 46677**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Diisopropyl ether	ND	1.9	6.3	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
Ethylbenzene	ND	0.22	1.0	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
Hexachloro-1,3-butadiene	ND	1.2	5.0	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
Isopropylbenzene (Cumene)	ND	0.39	5.0	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
Methyl-tert-butyl ether	ND	1.2	4.2	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
Methylene Chloride	ND	0.58	5.0	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
Naphthalene	ND	1.2	5.0	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
Styrene	ND	0.47	1.6	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
Tetrachloroethene	**17.1**	0.33	1.1	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
Tetrahydrofuran	ND	2.3	20.0	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
Toluene	ND	0.17	5.0	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
Trichloroethene	ND	0.26	1.0	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
Trichlorofluoromethane	ND	0.21	1.0	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
Vinyl chloride	ND	0.17	1.0	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
Xylene (Total)	ND	1.5	3.0	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
cis-1,2-Dichloroethene	ND	0.27	1.0	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
cis-1,3-Dichloropropene	ND	3.6	12.1	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
m&p-Xylene	ND	0.47	2.0	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
n-Butylbenzene	ND	0.71	2.4	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
n-Hexane	ND	1.7	5.7	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
n-Propylbenzene	ND	0.81	5.0	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
o-Xylene	ND	0.26	1.0	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
p-Isopropyltoluene	ND	0.80	2.7	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
sec-Butylbenzene	ND	0.85	5.0	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
tert-Butylbenzene	ND	0.30	1.0	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
trans-1,2-Dichloroethene	ND	1.1	3.6	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
trans-1,3-Dichloropropene	ND	4.4	14.6	ug/L	1	04/17/2019	04/17/2019 09:12	EPA 8260	
Surrogate: 4-Bromofluorobenzene (S)			*84 %*	*70-130*		*04/17/2019*	*04/17/2019 09:12*	*EPA 8260*	
Surrogate: Dibromofluoromethane (S)			*100 %*	*70-130*		*04/17/2019*	*04/17/2019 09:12*	*EPA 8260*	
Surrogate: Toluene-d8 (S)			*98 %*	*70-130*		*04/17/2019*	*04/17/2019 09:12*	*EPA 8260*	

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708 Heartland Trail, Ste 3000
Madison WI, 53717

Project: Madison Kipp Corporation - Madison, WI
Project Number: 323372.0000.000000002
Project Manager: Andrew Stehn

MW-3D

A191520-02 (Water)

Date Sampled
04/09/2019 15:53

Pace Analytical-Green Bay, WI

EPA 8260 — **Preparation Batch:MSV 46655**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	0.54	2.0	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
1,1,1-Trichloroethane	ND	0.49	2.0	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
1,1,2,2-Tetrachloroethane	ND	0.55	2.0	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
1,1,2-Trichloroethane	ND	1.1	10.0	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
1,1,2-Trichlorotrifluoroethane	ND	1.1	10.0	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
1,1-Dichloroethane	ND	0.55	2.0	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
1,1-Dichloroethene	ND	0.49	2.0	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
1,1-Dichloropropene	ND	1.1	3.6	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
1,2,3-Trichlorobenzene	ND	1.3	10.0	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
1,2,3-Trichloropropane	ND	1.2	10.0	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
1,2,4-Trichlorobenzene	ND	1.9	10.0	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
1,2,4-Trimethylbenzene	ND	1.7	5.6	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
1,2-Dibromo-3-chloropropane	ND	3.5	11.8	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
1,2-Dibromoethane (EDB)	ND	1.7	5.5	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
1,2-Dichlorobenzene	ND	1.4	4.7	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
1,2-Dichloroethane	ND	0.56	2.0	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
1,2-Dichloropropane	ND	0.57	2.0	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
1,3,5-Trimethylbenzene	ND	1.7	5.8	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
1,3-Dichlorobenzene	ND	1.3	4.2	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
1,3-Dichloropropane	ND	1.7	5.5	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
1,4-Dichlorobenzene	ND	1.9	6.3	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
2,2-Dichloropropane	ND	4.5	15.1	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
2-Butanone (MEK)	ND	5.9	40.0	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
2-Chlorotoluene	ND	1.9	10.0	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
2-Hexanone	ND	4.9	16.4	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
4-Chlorotoluene	ND	1.5	5.0	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
4-Methyl-2-pentanone (MIBK)	ND	3.1	10.2	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
Acetone	ND	5.5	40.0	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
Benzene	ND	0.49	2.0	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
Bromobenzene	ND	0.48	2.0	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
Bromochloromethane	ND	0.72	10.0	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
Bromodichloromethane	ND	0.73	2.4	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
Bromoform	ND	7.9	26.5	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
Bromomethane	ND	1.9	10.0	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
Carbon disulfide	ND	0.75	10.0	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
Carbon tetrachloride	ND	0.33	2.0	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
Chlorobenzene	ND	1.4	4.7	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
Chloroethane	ND	2.7	10.0	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
Chloroform	ND	2.5	10.0	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
Chloromethane	ND	4.4	14.6	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
Dibromochloromethane	ND	5.2	17.3	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
Dibromomethane	ND	1.9	6.2	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
Dichlorodifluoromethane	ND	1.0	10.0	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	

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Project: Madison Kipp Corporation - Madison, WI
Project Number: 323372.0000.000000002
Project Manager: Andrew Stehn

MW-3D

A191520-02 (Water)

Date Sampled
04/09/2019 15:53

Pace Analytical-Green Bay, WI

EPA 8260 — **Preparation Batch:MSV 46655**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Diisopropyl ether	ND	3.8	12.6	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
Ethylbenzene	ND	0.44	2.0	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
Hexachloro-1,3-butadiene	ND	2.4	10.0	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
Isopropylbenzene (Cumene)	ND	0.79	10.0	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
Methyl-tert-butyl ether	ND	2.5	8.3	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
Methylene Chloride	ND	1.2	10.0	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
Naphthalene	ND	2.4	10.0	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
Styrene	ND	0.93	3.1	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
Tetrachloroethene	**333**	0.65	2.2	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
Tetrahydrofuran	ND	4.6	40.0	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
Toluene	ND	0.34	10.0	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
Trichloroethene	**41.2**	0.51	2.0	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
Trichlorofluoromethane	ND	0.43	2.0	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
Vinyl chloride	ND	0.35	2.0	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
Xylene (Total)	ND	3.0	6.0	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
cis-1,2-Dichloroethene	**52.9**	0.54	2.0	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
cis-1,3-Dichloropropene	ND	7.3	24.2	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
m&p-Xylene	ND	0.93	4.0	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
n-Butylbenzene	ND	1.4	4.7	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
n-Hexane	ND	3.4	11.4	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
n-Propylbenzene	ND	1.6	10.0	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
o-Xylene	ND	0.52	2.0	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
p-Isopropyltoluene	ND	1.6	5.3	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
sec-Butylbenzene	ND	1.7	10.0	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
tert-Butylbenzene	ND	0.61	2.0	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
trans-1,2-Dichloroethene	ND	2.2	7.3	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
trans-1,3-Dichloropropene	ND	8.7	29.1	ug/L	2	04/16/2019	04/16/2019 12:22	EPA 8260	
Surrogate: 4-Bromofluorobenzene (S)			*93 %*	*70-130*		*04/16/2019*	*04/16/2019 12:22*	*EPA 8260*	
Surrogate: Dibromofluoromethane (S)			*110 %*	*70-130*		*04/16/2019*	*04/16/2019 12:22*	*EPA 8260*	
Surrogate: Toluene-d8 (S)			*97 %*	*70-130*		*04/16/2019*	*04/16/2019 12:22*	*EPA 8260*	

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TRC Environmental Corporation, Inc.
708 Heartland Trail, Ste 3000
Madison WI, 53717

Project: Madison Kipp Corporation - Madison, WI
Project Number: 323372.0000.000000002
Project Manager: Andrew Stehn

MW-3D2

A191520-03 (Water)

Date Sampled
04/09/2019 16:41

Pace Analytical-Green Bay, WI

EPA 8260 — **Preparation Batch:MSV 46655**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	0.54	2.0	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
1,1,1-Trichloroethane	ND	0.49	2.0	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
1,1,2,2-Tetrachloroethane	ND	0.55	2.0	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
1,1,2-Trichloroethane	ND	1.1	10.0	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
1,1,2-Trichlorotrifluoroethane	ND	1.1	10.0	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
1,1-Dichloroethane	ND	0.55	2.0	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
1,1-Dichloroethene	ND	0.49	2.0	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
1,1-Dichloropropene	ND	1.1	3.6	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
1,2,3-Trichlorobenzene	ND	1.3	10.0	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
1,2,3-Trichloropropane	ND	1.2	10.0	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
1,2,4-Trichlorobenzene	ND	1.9	10.0	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
1,2,4-Trimethylbenzene	ND	1.7	5.6	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
1,2-Dibromo-3-chloropropane	ND	3.5	11.8	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
1,2-Dibromoethane (EDB)	ND	1.7	5.5	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
1,2-Dichlorobenzene	ND	1.4	4.7	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
1,2-Dichloroethane	ND	0.56	2.0	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
1,2-Dichloropropane	ND	0.57	2.0	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
1,3,5-Trimethylbenzene	ND	1.7	5.8	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
1,3-Dichlorobenzene	ND	1.3	4.2	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
1,3-Dichloropropane	ND	1.7	5.5	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
1,4-Dichlorobenzene	ND	1.9	6.3	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
2,2-Dichloropropane	ND	4.5	15.1	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
2-Butanone (MEK)	ND	5.9	40.0	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
2-Chlorotoluene	ND	1.9	10.0	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
2-Hexanone	ND	4.9	16.4	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
4-Chlorotoluene	ND	1.5	5.0	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
4-Methyl-2-pentanone (MIBK)	ND	3.1	10.2	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
Acetone	ND	5.5	40.0	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
Benzene	ND	0.49	2.0	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
Bromobenzene	ND	0.48	2.0	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
Bromochloromethane	ND	0.72	10.0	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
Bromodichloromethane	ND	0.73	2.4	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
Bromoform	ND	7.9	26.5	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
Bromomethane	ND	1.9	10.0	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
Carbon disulfide	ND	0.75	10.0	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
Carbon tetrachloride	ND	0.33	2.0	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
Chlorobenzene	ND	1.4	4.7	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
Chloroethane	ND	2.7	10.0	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
Chloroform	ND	2.5	10.0	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
Chloromethane	ND	4.4	14.6	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
Dibromochloromethane	ND	5.2	17.3	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
Dibromomethane	ND	1.9	6.2	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
Dichlorodifluoromethane	**1.0**	1.0	10.0	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	Ja

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TRC Environmental Corporation, Inc.
708 Heartland Trail, Ste 3000
Madison WI, 53717

Project: Madison Kipp Corporation - Madison, WI
Project Number: 323372.0000.000000002
Project Manager: Andrew Stehn

MW-3D2

A191520-03 (Water)

Date Sampled
04/09/2019 16:41

Pace Analytical-Green Bay, WI

EPA 8260 — **Preparation Batch:MSV 46655**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Diisopropyl ether	ND	3.8	12.6	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
Ethylbenzene	ND	0.44	2.0	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
Hexachloro-1,3-butadiene	ND	2.4	10.0	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
Isopropylbenzene (Cumene)	ND	0.79	10.0	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
Methyl-tert-butyl ether	ND	2.5	8.3	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
Methylene Chloride	ND	1.2	10.0	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
Naphthalene	ND	2.4	10.0	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
Styrene	ND	0.93	3.1	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
Tetrachloroethene	**300**	0.65	2.2	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
Tetrahydrofuran	ND	4.6	40.0	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
Toluene	ND	0.34	10.0	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
Trichloroethene	**19.8**	0.51	2.0	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
Trichlorofluoromethane	ND	0.43	2.0	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
Vinyl chloride	ND	0.35	2.0	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
Xylene (Total)	ND	3.0	6.0	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
cis-1,2-Dichloroethene	**22.6**	0.54	2.0	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
cis-1,3-Dichloropropene	ND	7.3	24.2	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
m&p-Xylene	ND	0.93	4.0	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
n-Butylbenzene	ND	1.4	4.7	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
n-Hexane	ND	3.4	11.4	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
n-Propylbenzene	ND	1.6	10.0	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
o-Xylene	ND	0.52	2.0	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
p-Isopropyltoluene	ND	1.6	5.3	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
sec-Butylbenzene	ND	1.7	10.0	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
tert-Butylbenzene	ND	0.61	2.0	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
trans-1,2-Dichloroethene	ND	2.2	7.3	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
trans-1,3-Dichloropropene	ND	8.7	29.1	ug/L	2	04/16/2019	04/16/2019 12:44	EPA 8260	
Surrogate: 4-Bromofluorobenzene (S)			*91 %*	*70-130*		*04/16/2019*	*04/16/2019 12:44*	*EPA 8260*	
Surrogate: Dibromofluoromethane (S)			*110 %*	*70-130*		*04/16/2019*	*04/16/2019 12:44*	*EPA 8260*	
Surrogate: Toluene-d8 (S)			*97 %*	*70-130*		*04/16/2019*	*04/16/2019 12:44*	*EPA 8260*	

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708 Heartland Trail, Ste 3000
Madison WI, 53717

Project: Madison Kipp Corporation - Madison, WI
Project Number: 323372.0000.000000002
Project Manager: Andrew Stehn

MW-4D2

A191520-04 (Water)

Date Sampled
04/11/2019 12:52

Pace Analytical-Green Bay, WI

EPA 8260 — **Preparation Batch:MSV 46655**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	0.27	1.0	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
1,1,1-Trichloroethane	ND	0.24	1.0	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
1,1,2,2-Tetrachloroethane	ND	0.28	1.0	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
1,1,2-Trichloroethane	ND	0.55	5.0	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
1,1,2-Trichlorotrifluoroethane	ND	0.54	5.0	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
1,1-Dichloroethane	ND	0.27	1.0	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
1,1-Dichloroethene	ND	0.24	1.0	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
1,1-Dichloropropene	ND	0.54	1.8	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
1,2,3-Trichlorobenzene	ND	0.63	5.0	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
1,2,3-Trichloropropane	ND	0.59	5.0	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
1,2,4-Trichlorobenzene	ND	0.95	5.0	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
1,2,4-Trimethylbenzene	ND	0.84	2.8	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
1,2-Dibromo-3-chloropropane	ND	1.8	5.9	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
1,2-Dibromoethane (EDB)	ND	0.83	2.8	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
1,2-Dichlorobenzene	ND	0.71	2.4	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
1,2-Dichloroethane	ND	0.28	1.0	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
1,2-Dichloropropane	ND	0.28	1.0	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
1,3,5-Trimethylbenzene	ND	0.87	2.9	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
1,3-Dichlorobenzene	ND	0.63	2.1	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
1,3-Dichloropropane	ND	0.83	2.8	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
1,4-Dichlorobenzene	ND	0.94	3.1	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
2,2-Dichloropropane	ND	2.3	7.6	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
2-Butanone (MEK)	ND	2.9	20.0	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
2-Chlorotoluene	ND	0.93	5.0	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
2-Hexanone	ND	2.5	8.2	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
4-Chlorotoluene	ND	0.76	2.5	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
4-Methyl-2-pentanone (MIBK)	ND	1.5	5.1	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
Acetone	ND	2.7	20.0	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
Benzene	ND	0.25	1.0	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
Bromobenzene	ND	0.24	1.0	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
Bromochloromethane	ND	0.36	5.0	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
Bromodichloromethane	ND	0.36	1.2	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
Bromoform	ND	4.0	13.2	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
Bromomethane	ND	0.97	5.0	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
Carbon disulfide	ND	0.37	5.0	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
Carbon tetrachloride	ND	0.17	1.0	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
Chlorobenzene	ND	0.71	2.4	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
Chloroethane	ND	1.3	5.0	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
Chloroform	ND	1.3	5.0	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
Chloromethane	ND	2.2	7.3	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
Dibromochloromethane	ND	2.6	8.7	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
Dibromomethane	ND	0.94	3.1	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
Dichlorodifluoromethane	ND	0.50	5.0	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	

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Madison WI, 53717

Project: Madison Kipp Corporation - Madison, WI
Project Number: 323372.0000.000000002
Project Manager: Andrew Stehn

MW-4D2

A191520-04 (Water)

Date Sampled
04/11/2019 12:52

Pace Analytical-Green Bay, WI

EPA 8260 — **Preparation Batch:MSV 46655**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Diisopropyl ether	ND	1.9	6.3	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
Ethylbenzene	ND	0.22	1.0	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
Hexachloro-1,3-butadiene	ND	1.2	5.0	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
Isopropylbenzene (Cumene)	ND	0.39	5.0	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
Methyl-tert-butyl ether	ND	1.2	4.2	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
Methylene Chloride	ND	0.58	5.0	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
Naphthalene	ND	1.2	5.0	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
Styrene	ND	0.47	1.6	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
Tetrachloroethene	**1.1**	0.33	1.1	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	Ja
Tetrahydrofuran	ND	2.3	20.0	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
Toluene	ND	0.17	5.0	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
Trichloroethene	ND	0.26	1.0	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
Trichlorofluoromethane	ND	0.21	1.0	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
Vinyl chloride	ND	0.17	1.0	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
Xylene (Total)	ND	1.5	3.0	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
cis-1,2-Dichloroethene	ND	0.27	1.0	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
cis-1,3-Dichloropropene	ND	3.6	12.1	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
m&p-Xylene	ND	0.47	2.0	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
n-Butylbenzene	ND	0.71	2.4	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
n-Hexane	ND	1.7	5.7	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
n-Propylbenzene	ND	0.81	5.0	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
o-Xylene	ND	0.26	1.0	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
p-Isopropyltoluene	ND	0.80	2.7	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
sec-Butylbenzene	ND	0.85	5.0	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
tert-Butylbenzene	ND	0.30	1.0	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
trans-1,2-Dichloroethene	ND	1.1	3.6	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
trans-1,3-Dichloropropene	ND	4.4	14.6	ug/L	1	04/17/2019	04/17/2019 10:52	EPA 8260	
Surrogate: 4-Bromofluorobenzene (S)			*85 %*	*70-130*		*04/17/2019*	*04/17/2019 10:52*	*EPA 8260*	
Surrogate: Dibromofluoromethane (S)			*110 %*	*70-130*		*04/17/2019*	*04/17/2019 10:52*	*EPA 8260*	
Surrogate: Toluene-d8 (S)			*94 %*	*70-130*		*04/17/2019*	*04/17/2019 10:52*	*EPA 8260*	

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Madison WI, 53717

Project: Madison Kipp Corporation - Madison, WI
Project Number: 323372.0000.000000002
Project Manager: Andrew Stehn

MW-5D

A191520-05 (Water)

Date Sampled
04/08/2019 15:36

Pace Analytical-Green Bay, WI

EPA 8260 — **Preparation Batch:MSV 46655**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	5.4	20.0	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
1,1,1-Trichloroethane	ND	4.9	20.0	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
1,1,2,2-Tetrachloroethane	ND	5.5	20.0	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
1,1,2-Trichloroethane	ND	11.0	100	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
1,1,2-Trichlorotrifluoroethane	ND	10.7	100	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
1,1-Dichloroethane	ND	5.5	20.0	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
1,1-Dichloroethene	ND	4.9	20.0	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
1,1-Dichloropropene	ND	10.8	36.0	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
1,2,3-Trichlorobenzene	ND	12.5	100	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
1,2,3-Trichloropropane	ND	11.8	100	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
1,2,4-Trichlorobenzene	ND	19.0	100	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
1,2,4-Trimethylbenzene	ND	16.8	56.0	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
1,2-Dibromo-3-chloropropane	ND	35.3	118	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
1,2-Dibromoethane (EDB)	ND	16.6	55.3	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
1,2-Dichlorobenzene	ND	14.1	47.0	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
1,2-Dichloroethane	ND	5.6	20.0	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
1,2-Dichloropropane	ND	5.7	20.0	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
1,3,5-Trimethylbenzene	ND	17.5	58.2	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
1,3-Dichlorobenzene	ND	12.6	41.9	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
1,3-Dichloropropane	ND	16.5	55.1	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
1,4-Dichlorobenzene	ND	18.9	62.9	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
2,2-Dichloropropane	ND	45.3	151	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
2-Butanone (MEK)	ND	58.7	400	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
2-Chlorotoluene	ND	18.5	100	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
2-Hexanone	ND	49.1	164	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
4-Chlorotoluene	ND	15.1	50.4	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
4-Methyl-2-pentanone (MIBK)	ND	30.6	102	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
Acetone	ND	54.8	400	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
Benzene	ND	4.9	20.0	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
Bromobenzene	ND	4.8	20.0	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
Bromochloromethane	ND	7.2	100	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
Bromodichloromethane	ND	7.3	24.2	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
Bromoform	ND	79.4	265	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
Bromomethane	ND	19.4	100	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
Carbon disulfide	ND	7.5	100	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
Carbon tetrachloride	ND	3.3	20.0	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
Chlorobenzene	ND	14.2	47.4	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
Chloroethane	ND	26.8	100	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
Chloroform	ND	25.5	100	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
Chloromethane	ND	43.8	146	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
Dibromochloromethane	ND	52.0	173	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
Dibromomethane	ND	18.7	62.5	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
Dichlorodifluoromethane	ND	10	100	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	

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TRC Environmental Corporation, Inc.
708 Heartland Trail, Ste 3000
Madison WI, 53717

Project: Madison Kipp Corporation - Madison, WI
Project Number: 323372.0000.000000002
Project Manager: Andrew Stehn

MW-5D

A191520-05 (Water)

Date Sampled
04/08/2019 15:36

Pace Analytical-Green Bay, WI

EPA 8260 — **Preparation Batch:MSV 46655**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Diisopropyl ether	ND	37.8	126	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
Ethylbenzene	ND	4.4	20.0	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
Hexachloro-1,3-butadiene	ND	23.6	100	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
Isopropylbenzene (Cumene)	ND	7.9	100	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
Methyl-tert-butyl ether	ND	24.9	83.1	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
Methylene Chloride	ND	11.6	100	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
Naphthalene	ND	23.5	100	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
Styrene	ND	9.3	31.0	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
Tetrachloroethene	**2170**	6.5	21.8	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
Tetrahydrofuran	ND	46.4	400	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
Toluene	ND	3.4	100	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
Trichloroethene	**72.3**	5.1	20.0	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
Trichlorofluoromethane	ND	4.3	20.0	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
Vinyl chloride	ND	3.5	20.0	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
Xylene (Total)	ND	30.0	60.0	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
cis-1,2-Dichloroethene	**149**	5.4	20.0	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
cis-1,3-Dichloropropene	ND	72.6	242	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
m&p-Xylene	ND	9.3	40.0	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
n-Butylbenzene	ND	14.2	47.2	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
n-Hexane	ND	34.2	114	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
n-Propylbenzene	ND	16.2	100	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
o-Xylene	ND	5.2	20.0	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
p-Isopropyltoluene	ND	16.0	53.3	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
sec-Butylbenzene	ND	17.0	100	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
tert-Butylbenzene	ND	6.1	20.3	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
trans-1,2-Dichloroethene	ND	21.8	72.7	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
trans-1,3-Dichloropropene	ND	87.4	291	ug/L	20	04/17/2019	04/17/2019 13:54	EPA 8260	
Surrogate: 4-Bromofluorobenzene (S)			*84 %*	*70-130*		*04/17/2019*	*04/17/2019 13:54*	*EPA 8260*	
Surrogate: Dibromofluoromethane (S)			*105 %*	*70-130*		*04/17/2019*	*04/17/2019 13:54*	*EPA 8260*	
Surrogate: Toluene-d8 (S)			*97 %*	*70-130*		*04/17/2019*	*04/17/2019 13:54*	*EPA 8260*	

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TRC Environmental Corporation, Inc.
708 Heartland Trail, Ste 3000
Madison WI, 53717

Project: Madison Kipp Corporation - Madison, WI
Project Number: 323372.0000.000000002
Project Manager: Andrew Stehn

MW-5D2

A191520-06 (Water)

Date Sampled
04/10/2019 16:17

Pace Analytical-Green Bay, WI

EPA 8260 — **Preparation Batch:MSV 46655**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	5.4	20.0	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
1,1,1-Trichloroethane	ND	4.9	20.0	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
1,1,2,2-Tetrachloroethane	ND	5.5	20.0	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
1,1,2-Trichloroethane	ND	11.0	100	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
1,1,2-Trichlorotrifluoroethane	ND	10.7	100	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
1,1-Dichloroethane	ND	5.5	20.0	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
1,1-Dichloroethene	ND	4.9	20.0	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
1,1-Dichloropropene	ND	10.8	36.0	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
1,2,3-Trichlorobenzene	ND	12.5	100	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
1,2,3-Trichloropropane	ND	11.8	100	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
1,2,4-Trichlorobenzene	ND	19.0	100	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
1,2,4-Trimethylbenzene	ND	16.8	56.0	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
1,2-Dibromo-3-chloropropane	ND	35.3	118	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
1,2-Dibromoethane (EDB)	ND	16.6	55.3	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
1,2-Dichlorobenzene	ND	14.1	47.0	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
1,2-Dichloroethane	ND	5.6	20.0	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
1,2-Dichloropropane	ND	5.7	20.0	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
1,3,5-Trimethylbenzene	ND	17.5	58.2	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
1,3-Dichlorobenzene	ND	12.6	41.9	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
1,3-Dichloropropane	ND	16.5	55.1	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
1,4-Dichlorobenzene	ND	18.9	62.9	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
2,2-Dichloropropane	ND	45.3	151	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
2-Butanone (MEK)	ND	58.7	400	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
2-Chlorotoluene	ND	18.5	100	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
2-Hexanone	ND	49.1	164	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
4-Chlorotoluene	ND	15.1	50.4	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
4-Methyl-2-pentanone (MIBK)	ND	30.6	102	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
Acetone	ND	54.8	400	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
Benzene	ND	4.9	20.0	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
Bromobenzene	ND	4.8	20.0	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
Bromochloromethane	ND	7.2	100	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
Bromodichloromethane	ND	7.3	24.2	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
Bromoform	ND	79.4	265	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
Bromomethane	ND	19.4	100	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
Carbon disulfide	ND	7.5	100	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
Carbon tetrachloride	ND	3.3	20.0	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
Chlorobenzene	ND	14.2	47.4	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
Chloroethane	ND	26.8	100	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
Chloroform	ND	25.5	100	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
Chloromethane	ND	43.8	146	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
Dibromochloromethane	ND	52.0	173	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
Dibromomethane	ND	18.7	62.5	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
Dichlorodifluoromethane	ND	10	100	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	

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TRC Environmental Corporation, Inc.
708 Heartland Trail, Ste 3000
Madison WI, 53717

Project: Madison Kipp Corporation - Madison, WI
Project Number: 323372.0000.000000002
Project Manager: Andrew Stehn

MW-5D2

A191520-06 (Water)

Date Sampled
04/10/2019 16:17

Pace Analytical-Green Bay, WI

EPA 8260 — **Preparation Batch:MSV 46655**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Diisopropyl ether	ND	37.8	126	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
Ethylbenzene	ND	4.4	20.0	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
Hexachloro-1,3-butadiene	ND	23.6	100	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
Isopropylbenzene (Cumene)	ND	7.9	100	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
Methyl-tert-butyl ether	ND	24.9	83.1	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
Methylene Chloride	ND	11.6	100	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
Naphthalene	ND	23.5	100	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
Styrene	ND	9.3	31.0	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
Tetrachloroethene	**2150**	6.5	21.8	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
Tetrahydrofuran	ND	46.4	400	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
Toluene	ND	3.4	100	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
Trichloroethene	**26.7**	5.1	20.0	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
Trichlorofluoromethane	ND	4.3	20.0	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
Vinyl chloride	ND	3.5	20.0	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
Xylene (Total)	ND	30.0	60.0	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
cis-1,2-Dichloroethene	**15.0**	5.4	20.0	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	Ja
cis-1,3-Dichloropropene	ND	72.6	242	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
m&p-Xylene	ND	9.3	40.0	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
n-Butylbenzene	ND	14.2	47.2	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
n-Hexane	ND	34.2	114	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
n-Propylbenzene	ND	16.2	100	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
o-Xylene	ND	5.2	20.0	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
p-Isopropyltoluene	ND	16.0	53.3	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
sec-Butylbenzene	ND	17.0	100	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
tert-Butylbenzene	ND	6.1	20.3	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
trans-1,2-Dichloroethene	ND	21.8	72.7	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
trans-1,3-Dichloropropene	ND	87.4	291	ug/L	20	04/17/2019	04/17/2019 14:17	EPA 8260	
Surrogate: 4-Bromofluorobenzene (S)			*88 %*	*70-130*		*04/17/2019*	*04/17/2019 14:17*	*EPA 8260*	
Surrogate: Dibromofluoromethane (S)			*111 %*	*70-130*		*04/17/2019*	*04/17/2019 14:17*	*EPA 8260*	
Surrogate: Toluene-d8 (S)			*97 %*	*70-130*		*04/17/2019*	*04/17/2019 14:17*	*EPA 8260*	

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Project: Madison Kipp Corporation - Madison, WI
Project Number: 323372.0000.000000002
Project Manager: Andrew Stehn

MW-5D3

A191520-07 (Water)

Date Sampled
04/10/2019 14:26

Pace Analytical-Green Bay, WI

EPA 8260 — **Preparation Batch:MSV 46655**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	0.27	1.0	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
1,1,1-Trichloroethane	ND	0.24	1.0	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
1,1,2,2-Tetrachloroethane	ND	0.28	1.0	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
1,1,2-Trichloroethane	ND	0.55	5.0	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
1,1,2-Trichlorotrifluoroethane	ND	0.54	5.0	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
1,1-Dichloroethane	ND	0.27	1.0	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
1,1-Dichloroethene	ND	0.24	1.0	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
1,1-Dichloropropene	ND	0.54	1.8	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
1,2,3-Trichlorobenzene	ND	0.63	5.0	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
1,2,3-Trichloropropane	ND	0.59	5.0	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
1,2,4-Trichlorobenzene	ND	0.95	5.0	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
1,2,4-Trimethylbenzene	ND	0.84	2.8	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
1,2-Dibromo-3-chloropropane	ND	1.8	5.9	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
1,2-Dibromoethane (EDB)	ND	0.83	2.8	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
1,2-Dichlorobenzene	ND	0.71	2.4	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
1,2-Dichloroethane	ND	0.28	1.0	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
1,2-Dichloropropane	ND	0.28	1.0	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
1,3,5-Trimethylbenzene	ND	0.87	2.9	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
1,3-Dichlorobenzene	ND	0.63	2.1	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
1,3-Dichloropropane	ND	0.83	2.8	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
1,4-Dichlorobenzene	ND	0.94	3.1	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
2,2-Dichloropropane	ND	2.3	7.6	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
2-Butanone (MEK)	ND	2.9	20.0	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
2-Chlorotoluene	ND	0.93	5.0	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
2-Hexanone	ND	2.5	8.2	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
4-Chlorotoluene	ND	0.76	2.5	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
4-Methyl-2-pentanone (MIBK)	ND	1.5	5.1	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
Acetone	ND	2.7	20.0	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
Benzene	ND	0.25	1.0	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
Bromobenzene	ND	0.24	1.0	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
Bromochloromethane	ND	0.36	5.0	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
Bromodichloromethane	ND	0.36	1.2	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
Bromoform	ND	4.0	13.2	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
Bromomethane	ND	0.97	5.0	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
Carbon disulfide	ND	0.37	5.0	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
Carbon tetrachloride	ND	0.17	1.0	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
Chlorobenzene	ND	0.71	2.4	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
Chloroethane	ND	1.3	5.0	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
Chloroform	ND	1.3	5.0	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
Chloromethane	ND	2.2	7.3	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
Dibromochloromethane	ND	2.6	8.7	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
Dibromomethane	ND	0.94	3.1	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
Dichlorodifluoromethane	ND	0.50	5.0	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	

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TRC Environmental Corporation, Inc.
708 Heartland Trail, Ste 3000
Madison WI, 53717

Project: Madison Kipp Corporation - Madison, WI
Project Number: 323372.0000.000000002
Project Manager: Andrew Stehn

MW-5D3

A191520-07 (Water)

Date Sampled
04/10/2019 14:26

Pace Analytical-Green Bay, WI

EPA 8260 — **Preparation Batch:MSV 46655**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Diisopropyl ether	ND	1.9	6.3	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
Ethylbenzene	ND	0.22	1.0	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
Hexachloro-1,3-butadiene	ND	1.2	5.0	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
Isopropylbenzene (Cumene)	ND	0.39	5.0	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
Methyl-tert-butyl ether	ND	1.2	4.2	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
Methylene Chloride	ND	0.58	5.0	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
Naphthalene	ND	1.2	5.0	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
Styrene	ND	0.47	1.6	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
Tetrachloroethene	ND	0.33	1.1	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
Tetrahydrofuran	ND	2.3	20.0	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
Toluene	ND	0.17	5.0	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
Trichloroethene	ND	0.26	1.0	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
Trichlorofluoromethane	ND	0.21	1.0	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
Vinyl chloride	ND	0.17	1.0	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
Xylene (Total)	ND	1.5	3.0	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
cis-1,2-Dichloroethene	ND	0.27	1.0	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
cis-1,3-Dichloropropene	ND	3.6	12.1	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
m&p-Xylene	ND	0.47	2.0	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
n-Butylbenzene	ND	0.71	2.4	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
n-Hexane	ND	1.7	5.7	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
n-Propylbenzene	ND	0.81	5.0	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
o-Xylene	ND	0.26	1.0	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
p-Isopropyltoluene	ND	0.80	2.7	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
sec-Butylbenzene	ND	0.85	5.0	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
tert-Butylbenzene	ND	0.30	1.0	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
trans-1,2-Dichloroethene	ND	1.1	3.6	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
trans-1,3-Dichloropropene	ND	4.4	14.6	ug/L	1	04/17/2019	04/17/2019 11:15	EPA 8260	
Surrogate: 4-Bromofluorobenzene (S)			*86 %*	*70-130*		*04/17/2019*	*04/17/2019 11:15*	*EPA 8260*	
Surrogate: Dibromofluoromethane (S)			*112 %*	*70-130*		*04/17/2019*	*04/17/2019 11:15*	*EPA 8260*	
Surrogate: Toluene-d8 (S)			*95 %*	*70-130*		*04/17/2019*	*04/17/2019 11:15*	*EPA 8260*	

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TRC Environmental Corporation, Inc.
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Madison WI, 53717

Project: Madison Kipp Corporation - Madison, WI
Project Number: 323372.0000.000000002
Project Manager: Andrew Stehn

MW-6D

A191520-08 (Water)

Date Sampled
04/11/2019 16:40

Pace Analytical-Green Bay, WI

EPA 8260 — **Preparation Batch:MSV 46655**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	6.7	25.0	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
1,1,1-Trichloroethane	ND	6.1	25.0	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
1,1,2,2-Tetrachloroethane	ND	6.9	25.0	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
1,1,2-Trichloroethane	ND	13.8	125	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
1,1,2-Trichlorotrifluoroethane	ND	13.4	125	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
1,1-Dichloroethane	ND	6.8	25.0	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
1,1-Dichloroethene	ND	6.1	25.0	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
1,1-Dichloropropene	ND	13.5	45.0	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
1,2,3-Trichlorobenzene	ND	15.6	125	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
1,2,3-Trichloropropane	ND	14.8	125	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
1,2,4-Trichlorobenzene	ND	23.8	125	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
1,2,4-Trimethylbenzene	**57.0**	21.0	70.0	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	Ja
1,2-Dibromo-3-chloropropane	ND	44.1	147	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
1,2-Dibromoethane (EDB)	ND	20.7	69.1	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
1,2-Dichlorobenzene	ND	17.6	58.8	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
1,2-Dichloroethane	ND	7.0	25.0	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
1,2-Dichloropropane	ND	7.1	25.0	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
1,3,5-Trimethylbenzene	ND	21.8	72.8	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
1,3-Dichlorobenzene	ND	15.7	52.3	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
1,3-Dichloropropane	ND	20.6	68.8	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
1,4-Dichlorobenzene	ND	23.6	78.6	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
2,2-Dichloropropane	ND	56.6	189	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
2-Butanone (MEK)	ND	73.4	500	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
2-Chlorotoluene	ND	23.2	125	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
2-Hexanone	ND	61.4	205	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
4-Chlorotoluene	ND	18.9	63.0	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
4-Methyl-2-pentanone (MIBK)	ND	38.3	128	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
Acetone	**119**	68.5	500	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	Ja
Benzene	**1210**	6.2	25.0	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
Bromobenzene	ND	6.0	25.0	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
Bromochloromethane	ND	9.1	125	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
Bromodichloromethane	ND	9.1	30.3	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
Bromoform	ND	99.3	331	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
Bromomethane	ND	24.3	125	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
Carbon disulfide	ND	9.4	125	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
Carbon tetrachloride	ND	4.1	25.0	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
Chlorobenzene	ND	17.8	59.2	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
Chloroethane	ND	33.6	125	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
Chloroform	ND	31.8	125	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
Chloromethane	ND	54.7	182	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
Dibromochloromethane	ND	65.0	217	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
Dibromomethane	ND	23.4	78.1	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
Dichlorodifluoromethane	ND	12.5	125	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	

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TRC Environmental Corporation, Inc.
708 Heartland Trail, Ste 3000
Madison WI, 53717

Project: Madison Kipp Corporation - Madison, WI
Project Number: 323372.0000.000000002
Project Manager: Andrew Stehn

MW-6D

A191520-08 (Water)

Date Sampled
04/11/2019 16:40

Pace Analytical-Green Bay, WI

EPA 8260 — **Preparation Batch:MSV 46655**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Diisopropyl ether	ND	47.2	157	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
Ethylbenzene	**32.0**	5.5	25.0	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
Hexachloro-1,3-butadiene	ND	29.6	125	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
Isopropylbenzene (Cumene)	**15.3**	9.8	125	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	Ja
Methyl-tert-butyl ether	ND	31.1	104	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
Methylene Chloride	ND	14.5	125	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
Naphthalene	ND	29.4	125	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
Styrene	ND	11.6	38.8	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
Tetrachloroethene	ND	8.2	27.2	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
Tetrahydrofuran	ND	58.0	500	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
Toluene	**95.5**	4.3	125	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	Ja
Trichloroethene	**14.4**	6.4	25.0	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	Ja
Trichlorofluoromethane	ND	5.4	25.0	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
Vinyl chloride	ND	4.4	25.0	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
Xylene (Total)	**44.2**	37.5	75.0	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	Ja
cis-1,2-Dichloroethene	ND	6.8	25.0	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
cis-1,3-Dichloropropene	ND	90.7	302	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
m&p-Xylene	**44.2**	11.6	50.0	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	Ja
n-Butylbenzene	ND	17.7	59.0	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
n-Hexane	ND	42.7	142	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
n-Propylbenzene	ND	20.3	125	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
o-Xylene	ND	6.5	25.0	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
p-Isopropyltoluene	ND	20.0	66.7	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
sec-Butylbenzene	ND	21.2	125	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
tert-Butylbenzene	ND	7.6	25.3	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
trans-1,2-Dichloroethene	ND	27.3	90.9	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
trans-1,3-Dichloropropene	ND	109	364	ug/L	25	04/17/2019	04/17/2019 12:24	EPA 8260	
Surrogate: 4-Bromofluorobenzene (S)			*90 %*	*70-130*		*04/17/2019*	*04/17/2019 12:24*	*EPA 8260*	
Surrogate: Dibromofluoromethane (S)			*113 %*	*70-130*		*04/17/2019*	*04/17/2019 12:24*	*EPA 8260*	
Surrogate: Toluene-d8 (S)			*97 %*	*70-130*		*04/17/2019*	*04/17/2019 12:24*	*EPA 8260*	

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Project: Madison Kipp Corporation - Madison, WI
Project Number: 323372.0000.000000002
Project Manager: Andrew Stehn

MW-9D2

A191520-09 (Water)

Date Sampled
04/09/2019 11:23

Pace Analytical-Green Bay, WI

EPA 8260 — **Preparation Batch:MSV 46655**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	0.54	2.0	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
1,1,1-Trichloroethane	ND	0.49	2.0	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
1,1,2,2-Tetrachloroethane	ND	0.55	2.0	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
1,1,2-Trichloroethane	ND	1.1	10.0	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
1,1,2-Trichlorotrifluoroethane	ND	1.1	10.0	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
1,1-Dichloroethane	ND	0.55	2.0	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
1,1-Dichloroethene	ND	0.49	2.0	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
1,1-Dichloropropene	ND	1.1	3.6	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
1,2,3-Trichlorobenzene	ND	1.3	10.0	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
1,2,3-Trichloropropane	ND	1.2	10.0	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
1,2,4-Trichlorobenzene	ND	1.9	10.0	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
1,2,4-Trimethylbenzene	ND	1.7	5.6	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
1,2-Dibromo-3-chloropropane	ND	3.5	11.8	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
1,2-Dibromoethane (EDB)	ND	1.7	5.5	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
1,2-Dichlorobenzene	ND	1.4	4.7	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
1,2-Dichloroethane	ND	0.56	2.0	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
1,2-Dichloropropane	ND	0.57	2.0	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
1,3,5-Trimethylbenzene	ND	1.7	5.8	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
1,3-Dichlorobenzene	ND	1.3	4.2	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
1,3-Dichloropropane	ND	1.7	5.5	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
1,4-Dichlorobenzene	ND	1.9	6.3	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
2,2-Dichloropropane	ND	4.5	15.1	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
2-Butanone (MEK)	ND	5.9	40.0	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
2-Chlorotoluene	ND	1.9	10.0	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
2-Hexanone	ND	4.9	16.4	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
4-Chlorotoluene	ND	1.5	5.0	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
4-Methyl-2-pentanone (MIBK)	ND	3.1	10.2	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
Acetone	ND	5.5	40.0	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
Benzene	ND	0.49	2.0	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
Bromobenzene	ND	0.48	2.0	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
Bromochloromethane	ND	0.72	10.0	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
Bromodichloromethane	ND	0.73	2.4	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
Bromoform	ND	7.9	26.5	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
Bromomethane	ND	1.9	10.0	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
Carbon disulfide	ND	0.75	10.0	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
Carbon tetrachloride	ND	0.33	2.0	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
Chlorobenzene	ND	1.4	4.7	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
Chloroethane	ND	2.7	10.0	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
Chloroform	ND	2.5	10.0	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
Chloromethane	ND	4.4	14.6	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
Dibromochloromethane	ND	5.2	17.3	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
Dibromomethane	ND	1.9	6.2	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
Dichlorodifluoromethane	ND	1.0	10.0	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	

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TRC Environmental Corporation, Inc.	Project: Madison Kipp Corporation - Madison, WI
708 Heartland Trail, Ste 3000	Project Number: 323372.0000.000000002
Madison WI, 53717	Project Manager: Andrew Stehn

MW-9D2

A191520-09 (Water)

Date Sampled
04/09/2019 11:23

Pace Analytical-Green Bay, WI

EPA 8260 — **Preparation Batch:MSV 46655**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Diisopropyl ether	ND	3.8	12.6	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
Ethylbenzene	ND	0.44	2.0	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
Hexachloro-1,3-butadiene	ND	2.4	10.0	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
Isopropylbenzene (Cumene)	ND	0.79	10.0	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
Methyl-tert-butyl ether	**30.0**	2.5	8.3	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
Methylene Chloride	ND	1.2	10.0	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
Naphthalene	ND	2.4	10.0	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
Styrene	ND	0.93	3.1	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
Tetrachloroethene	**98.5**	0.65	2.2	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
Tetrahydrofuran	ND	4.6	40.0	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
Toluene	ND	0.34	10.0	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
Trichloroethene	**25.8**	0.51	2.0	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
Trichlorofluoromethane	ND	0.43	2.0	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
Vinyl chloride	**1.7**	0.35	2.0	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	Ja
Xylene (Total)	ND	3.0	6.0	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
cis-1,2-Dichloroethene	**64.1**	0.54	2.0	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
cis-1,3-Dichloropropene	ND	7.3	24.2	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
m&p-Xylene	ND	0.93	4.0	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
n-Butylbenzene	ND	1.4	4.7	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
n-Hexane	ND	3.4	11.4	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
n-Propylbenzene	ND	1.6	10.0	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
o-Xylene	ND	0.52	2.0	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
p-Isopropyltoluene	ND	1.6	5.3	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
sec-Butylbenzene	ND	1.7	10.0	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
tert-Butylbenzene	ND	0.61	2.0	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
trans-1,2-Dichloroethene	ND	2.2	7.3	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
trans-1,3-Dichloropropene	ND	8.7	29.1	ug/L	2	04/16/2019	04/16/2019 13:07	EPA 8260	
Surrogate: 4-Bromofluorobenzene (S)			*90 %*	*70-130*		*04/16/2019*	*04/16/2019 13:07*	*EPA 8260*	
Surrogate: Dibromofluoromethane (S)			*107 %*	*70-130*		*04/16/2019*	*04/16/2019 13:07*	*EPA 8260*	
Surrogate: Toluene-d8 (S)			*99 %*	*70-130*		*04/16/2019*	*04/16/2019 13:07*	*EPA 8260*	

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TRC Environmental Corporation, Inc.
708 Heartland Trail, Ste 3000
Madison WI, 53717

Project: Madison Kipp Corporation - Madison, WI
Project Number: 323372.0000.000000002
Project Manager: Andrew Stehn

MW-17

A191520-10 (Water)

Date Sampled
04/11/2019 16:22

Pace Analytical-Green Bay, WI

EPA 8260 — **Preparation Batch:MSV 46655**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	2.7	10.0	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
1,1,1-Trichloroethane	ND	2.4	10.0	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
1,1,2,2-Tetrachloroethane	ND	2.8	10.0	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
1,1,2-Trichloroethane	ND	5.5	50.0	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
1,1,2-Trichlorotrifluoroethane	ND	5.4	50.0	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
1,1-Dichloroethane	ND	2.7	10.0	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
1,1-Dichloroethene	ND	2.4	10.0	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
1,1-Dichloropropene	ND	5.4	18.0	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
1,2,3-Trichlorobenzene	ND	6.3	50.0	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
1,2,3-Trichloropropane	ND	5.9	50.0	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
1,2,4-Trichlorobenzene	ND	9.5	50.0	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
1,2,4-Trimethylbenzene	ND	8.4	28.0	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
1,2-Dibromo-3-chloropropane	ND	17.6	58.8	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
1,2-Dibromoethane (EDB)	ND	8.3	27.6	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
1,2-Dichlorobenzene	ND	7.1	23.5	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
1,2-Dichloroethane	ND	2.8	10.0	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
1,2-Dichloropropane	ND	2.8	10.0	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
1,3,5-Trimethylbenzene	ND	8.7	29.1	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
1,3-Dichlorobenzene	ND	6.3	20.9	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
1,3-Dichloropropane	ND	8.3	27.5	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
1,4-Dichlorobenzene	ND	9.4	31.5	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
2,2-Dichloropropane	ND	22.7	75.5	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
2-Butanone (MEK)	ND	29.4	200	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
2-Chlorotoluene	ND	9.3	50.0	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
2-Hexanone	ND	24.6	81.9	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
4-Chlorotoluene	ND	7.6	25.2	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
4-Methyl-2-pentanone (MIBK)	ND	15.3	51.0	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
Acetone	ND	27.4	200	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
Benzene	ND	2.5	10.0	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
Bromobenzene	ND	2.4	10.0	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
Bromochloromethane	ND	3.6	50.0	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
Bromodichloromethane	ND	3.6	12.1	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
Bromoform	ND	39.7	132	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
Bromomethane	ND	9.7	50.0	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
Carbon disulfide	ND	3.7	50.0	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
Carbon tetrachloride	ND	1.7	10.0	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
Chlorobenzene	ND	7.1	23.7	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
Chloroethane	ND	13.4	50.0	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
Chloroform	ND	12.7	50.0	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
Chloromethane	ND	21.9	73.0	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
Dibromochloromethane	ND	26.0	86.7	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
Dibromomethane	ND	9.4	31.2	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
Dichlorodifluoromethane	ND	5.0	50.0	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	

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TRC Environmental Corporation, Inc.
708 Heartland Trail, Ste 3000
Madison WI, 53717

Project: Madison Kipp Corporation - Madison, WI
Project Number: 323372.0000.000000002
Project Manager: Andrew Stehn

MW-17

A191520-10 (Water)

Date Sampled
04/11/2019 16:22

Pace Analytical-Green Bay, WI

EPA 8260 — **Preparation Batch:MSV 46655**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Diisopropyl ether	ND	18.9	62.9	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
Ethylbenzene	ND	2.2	10.0	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
Hexachloro-1,3-butadiene	ND	11.8	50.0	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
Isopropylbenzene (Cumene)	ND	3.9	50.0	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
Methyl-tert-butyl ether	ND	12.5	41.5	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
Methylene Chloride	ND	5.8	50.0	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
Naphthalene	ND	11.8	50.0	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
Styrene	ND	4.7	15.5	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
Tetrachloroethene	**831**	3.3	10.9	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
Tetrahydrofuran	ND	23.2	200	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
Toluene	ND	1.7	50.0	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
Trichloroethene	**67.6**	2.6	10.0	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
Trichlorofluoromethane	ND	2.1	10.0	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
Vinyl chloride	ND	1.7	10.0	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
Xylene (Total)	ND	15.0	30.0	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
cis-1,2-Dichloroethene	**5.5**	2.7	10.0	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	Ja
cis-1,3-Dichloropropene	ND	36.3	121	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
m&p-Xylene	ND	4.7	20.0	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
n-Butylbenzene	ND	7.1	23.6	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
n-Hexane	ND	17.1	57.0	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
n-Propylbenzene	ND	8.1	50.0	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
o-Xylene	ND	2.6	10.0	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
p-Isopropyltoluene	ND	8.0	26.7	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
sec-Butylbenzene	ND	8.5	50.0	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
tert-Butylbenzene	ND	3.0	10.1	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
trans-1,2-Dichloroethene	ND	10.9	36.4	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
trans-1,3-Dichloropropene	ND	43.7	146	ug/L	10	04/17/2019	04/17/2019 14:39	EPA 8260	
Surrogate: 4-Bromofluorobenzene (S)			*87 %*	*70-130*		*04/17/2019*	*04/17/2019 14:39*	*EPA 8260*	
Surrogate: Dibromofluoromethane (S)			*111 %*	*70-130*		*04/17/2019*	*04/17/2019 14:39*	*EPA 8260*	
Surrogate: Toluene-d8 (S)			*96 %*	*70-130*		*04/17/2019*	*04/17/2019 14:39*	*EPA 8260*	

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Madison WI, 53717

Project: Madison Kipp Corporation - Madison, WI
Project Number: 323372.0000.000000002
Project Manager: Andrew Stehn

MW-25D2

A191520-11 (Water)

Date Sampled
04/10/2019 10:44

Pace Analytical-Green Bay, WI

EPA 8260 — **Preparation Batch:MSV 46655**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	0.27	1.0	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
1,1,1-Trichloroethane	ND	0.24	1.0	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
1,1,2,2-Tetrachloroethane	ND	0.28	1.0	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
1,1,2-Trichloroethane	ND	0.55	5.0	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
1,1,2-Trichlorotrifluoroethane	ND	0.54	5.0	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
1,1-Dichloroethane	ND	0.27	1.0	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
1,1-Dichloroethene	ND	0.24	1.0	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
1,1-Dichloropropene	ND	0.54	1.8	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
1,2,3-Trichlorobenzene	ND	0.63	5.0	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
1,2,3-Trichloropropane	ND	0.59	5.0	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
1,2,4-Trichlorobenzene	ND	0.95	5.0	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
1,2,4-Trimethylbenzene	ND	0.84	2.8	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
1,2-Dibromo-3-chloropropane	ND	1.8	5.9	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
1,2-Dibromoethane (EDB)	ND	0.83	2.8	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
1,2-Dichlorobenzene	ND	0.71	2.4	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
1,2-Dichloroethane	ND	0.28	1.0	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
1,2-Dichloropropane	ND	0.28	1.0	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
1,3,5-Trimethylbenzene	ND	0.87	2.9	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
1,3-Dichlorobenzene	ND	0.63	2.1	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
1,3-Dichloropropane	ND	0.83	2.8	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
1,4-Dichlorobenzene	ND	0.94	3.1	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
2,2-Dichloropropane	ND	2.3	7.6	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
2-Butanone (MEK)	ND	2.9	20.0	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
2-Chlorotoluene	ND	0.93	5.0	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
2-Hexanone	ND	2.5	8.2	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
4-Chlorotoluene	ND	0.76	2.5	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
4-Methyl-2-pentanone (MIBK)	ND	1.5	5.1	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
Acetone	ND	2.7	20.0	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
Benzene	ND	0.25	1.0	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
Bromobenzene	ND	0.24	1.0	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
Bromochloromethane	ND	0.36	5.0	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
Bromodichloromethane	ND	0.36	1.2	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
Bromoform	ND	4.0	13.2	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
Bromomethane	ND	0.97	5.0	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
Carbon disulfide	ND	0.37	5.0	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
Carbon tetrachloride	ND	0.17	1.0	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
Chlorobenzene	ND	0.71	2.4	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
Chloroethane	ND	1.3	5.0	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
Chloroform	ND	1.3	5.0	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
Chloromethane	ND	2.2	7.3	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
Dibromochloromethane	ND	2.6	8.7	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
Dibromomethane	ND	0.94	3.1	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
Dichlorodifluoromethane	ND	0.50	5.0	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	

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TRC Environmental Corporation, Inc.	Project: Madison Kipp Corporation - Madison, WI
708 Heartland Trail, Ste 3000	Project Number: 323372.0000.000000002
Madison WI, 53717	Project Manager: Andrew Stehn

MW-25D2

A191520-11 (Water)

Date Sampled
04/10/2019 10:44

Pace Analytical-Green Bay, WI

EPA 8260 — **Preparation Batch:MSV 46655**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Diisopropyl ether	ND	1.9	6.3	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
Ethylbenzene	ND	0.22	1.0	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
Hexachloro-1,3-butadiene	ND	1.2	5.0	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
Isopropylbenzene (Cumene)	ND	0.39	5.0	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
Methyl-tert-butyl ether	ND	1.2	4.2	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
Methylene Chloride	ND	0.58	5.0	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
Naphthalene	ND	1.2	5.0	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
Styrene	ND	0.47	1.6	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
Tetrachloroethene	ND	0.33	1.1	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
Tetrahydrofuran	ND	2.3	20.0	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
Toluene	ND	0.17	5.0	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
Trichloroethene	ND	0.26	1.0	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
Trichlorofluoromethane	ND	0.21	1.0	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
Vinyl chloride	ND	0.17	1.0	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
Xylene (Total)	ND	1.5	3.0	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
cis-1,2-Dichloroethene	ND	0.27	1.0	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
cis-1,3-Dichloropropene	ND	3.6	12.1	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
m&p-Xylene	ND	0.47	2.0	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
n-Butylbenzene	ND	0.71	2.4	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
n-Hexane	ND	1.7	5.7	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
n-Propylbenzene	ND	0.81	5.0	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
o-Xylene	ND	0.26	1.0	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
p-Isopropyltoluene	ND	0.80	2.7	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
sec-Butylbenzene	ND	0.85	5.0	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
tert-Butylbenzene	ND	0.30	1.0	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
trans-1,2-Dichloroethene	ND	1.1	3.6	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
trans-1,3-Dichloropropene	ND	4.4	14.6	ug/L	1	04/16/2019	04/16/2019 11:37	EPA 8260	
Surrogate: 4-Bromofluorobenzene (S)			*91 %*	*70-130*		*04/16/2019*	*04/16/2019 11:37*	*EPA 8260*	
Surrogate: Dibromofluoromethane (S)			*109 %*	*70-130*		*04/16/2019*	*04/16/2019 11:37*	*EPA 8260*	
Surrogate: Toluene-d8 (S)			*99 %*	*70-130*		*04/16/2019*	*04/16/2019 11:37*	*EPA 8260*	

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TRC Environmental Corporation, Inc.
708 Heartland Trail, Ste 3000
Madison WI, 53717

Project: Madison Kipp Corporation - Madison, WI
Project Number: 323372.0000.000000002
Project Manager: Andrew Stehn

MW-27D

A191520-12 (Water)

Date Sampled
04/10/2019 12:54

Pace Analytical-Green Bay, WI

EPA 8260 — **Preparation Batch:MSV 46655**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	0.27	1.0	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
1,1,1-Trichloroethane	ND	0.24	1.0	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
1,1,2,2-Tetrachloroethane	ND	0.28	1.0	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
1,1,2-Trichloroethane	ND	0.55	5.0	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
1,1,2-Trichlorotrifluoroethane	ND	0.54	5.0	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
1,1-Dichloroethane	ND	0.27	1.0	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
1,1-Dichloroethene	ND	0.24	1.0	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
1,1-Dichloropropene	ND	0.54	1.8	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
1,2,3-Trichlorobenzene	ND	0.63	5.0	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
1,2,3-Trichloropropane	ND	0.59	5.0	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
1,2,4-Trichlorobenzene	ND	0.95	5.0	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
1,2,4-Trimethylbenzene	ND	0.84	2.8	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
1,2-Dibromo-3-chloropropane	ND	1.8	5.9	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
1,2-Dibromoethane (EDB)	ND	0.83	2.8	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
1,2-Dichlorobenzene	ND	0.71	2.4	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
1,2-Dichloroethane	ND	0.28	1.0	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
1,2-Dichloropropane	ND	0.28	1.0	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
1,3,5-Trimethylbenzene	ND	0.87	2.9	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
1,3-Dichlorobenzene	ND	0.63	2.1	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
1,3-Dichloropropane	ND	0.83	2.8	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
1,4-Dichlorobenzene	ND	0.94	3.1	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
2,2-Dichloropropane	ND	2.3	7.6	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
2-Butanone (MEK)	ND	2.9	20.0	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
2-Chlorotoluene	ND	0.93	5.0	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
2-Hexanone	ND	2.5	8.2	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
4-Chlorotoluene	ND	0.76	2.5	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
4-Methyl-2-pentanone (MIBK)	ND	1.5	5.1	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
Acetone	ND	2.7	20.0	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
Benzene	ND	0.25	1.0	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
Bromobenzene	ND	0.24	1.0	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
Bromochloromethane	ND	0.36	5.0	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
Bromodichloromethane	ND	0.36	1.2	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
Bromoform	ND	4.0	13.2	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
Bromomethane	ND	0.97	5.0	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
Carbon disulfide	ND	0.37	5.0	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
Carbon tetrachloride	ND	0.17	1.0	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
Chlorobenzene	ND	0.71	2.4	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
Chloroethane	ND	1.3	5.0	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
Chloroform	ND	1.3	5.0	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
Chloromethane	ND	2.2	7.3	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
Dibromochloromethane	ND	2.6	8.7	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
Dibromomethane	ND	0.94	3.1	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
Dichlorodifluoromethane	ND	0.50	5.0	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	

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TRC Environmental Corporation, Inc.
708 Heartland Trail, Ste 3000
Madison WI, 53717

Project: Madison Kipp Corporation - Madison, WI
Project Number: 323372.0000.000000002
Project Manager: Andrew Stehn

MW-27D

A191520-12 (Water)

Date Sampled
04/10/2019 12:54

Pace Analytical-Green Bay, WI

EPA 8260 — **Preparation Batch:MSV 46655**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Diisopropyl ether	ND	1.9	6.3	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
Ethylbenzene	ND	0.22	1.0	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
Hexachloro-1,3-butadiene	ND	1.2	5.0	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
Isopropylbenzene (Cumene)	ND	0.39	5.0	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
Methyl-tert-butyl ether	ND	1.2	4.2	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
Methylene Chloride	ND	0.58	5.0	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
Naphthalene	ND	1.2	5.0	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
Styrene	ND	0.47	1.6	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
Tetrachloroethene	**2.7**	0.33	1.1	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
Tetrahydrofuran	ND	2.3	20.0	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
Toluene	ND	0.17	5.0	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
Trichloroethene	**1.7**	0.26	1.0	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
Trichlorofluoromethane	ND	0.21	1.0	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
Vinyl chloride	ND	0.17	1.0	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
Xylene (Total)	ND	1.5	3.0	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
cis-1,2-Dichloroethene	**1.1**	0.27	1.0	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
cis-1,3-Dichloropropene	ND	3.6	12.1	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
m&p-Xylene	ND	0.47	2.0	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
n-Butylbenzene	ND	0.71	2.4	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
n-Hexane	ND	1.7	5.7	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
n-Propylbenzene	ND	0.81	5.0	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
o-Xylene	ND	0.26	1.0	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
p-Isopropyltoluene	ND	0.80	2.7	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
sec-Butylbenzene	ND	0.85	5.0	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
tert-Butylbenzene	ND	0.30	1.0	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
trans-1,2-Dichloroethene	ND	1.1	3.6	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
trans-1,3-Dichloropropene	ND	4.4	14.6	ug/L	1	04/17/2019	04/17/2019 11:37	EPA 8260	
Surrogate: 4-Bromofluorobenzene (S)			*88 %*	*70-130*		*04/17/2019*	*04/17/2019 11:37*	*EPA 8260*	
Surrogate: Dibromofluoromethane (S)			*113 %*	*70-130*		*04/17/2019*	*04/17/2019 11:37*	*EPA 8260*	
Surrogate: Toluene-d8 (S)			*98 %*	*70-130*		*04/17/2019*	*04/17/2019 11:37*	*EPA 8260*	

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TRC Environmental Corporation, Inc.
708 Heartland Trail, Ste 3000
Madison WI, 53717

Project: Madison Kipp Corporation - Madison, WI
Project Number: 323372.0000.000000002
Project Manager: Andrew Stehn

MP-14 (135-140)

A191520-13 (Water)

Date Sampled
04/08/2019 13:50

Pace Analytical-Green Bay, WI

EPA 8260 — **Preparation Batch:MSV 46655**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	1.1	4.0	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
1,1,1-Trichloroethane	ND	0.98	4.0	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
1,1,2,2-Tetrachloroethane	ND	1.1	4.0	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
1,1,2-Trichloroethane	ND	2.2	20.0	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
1,1,2-Trichlorotrifluoroethane	ND	2.1	20.0	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
1,1-Dichloroethane	ND	1.1	4.0	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
1,1-Dichloroethene	ND	0.98	4.0	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
1,1-Dichloropropene	ND	2.2	7.2	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
1,2,3-Trichlorobenzene	ND	2.5	20.0	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
1,2,3-Trichloropropane	ND	2.4	20.0	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
1,2,4-Trichlorobenzene	ND	3.8	20.0	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
1,2,4-Trimethylbenzene	ND	3.4	11.2	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
1,2-Dibromo-3-chloropropane	ND	7.1	23.5	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
1,2-Dibromoethane (EDB)	ND	3.3	11.1	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
1,2-Dichlorobenzene	ND	2.8	9.4	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
1,2-Dichloroethane	ND	1.1	4.0	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
1,2-Dichloropropane	ND	1.1	4.0	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
1,3,5-Trimethylbenzene	ND	3.5	11.6	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
1,3-Dichlorobenzene	ND	2.5	8.4	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
1,3-Dichloropropane	ND	3.3	11.0	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
1,4-Dichlorobenzene	ND	3.8	12.6	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
2,2-Dichloropropane	ND	9.1	30.2	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
2-Butanone (MEK)	ND	11.7	80.0	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
2-Chlorotoluene	ND	3.7	20.0	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
2-Hexanone	ND	9.8	32.8	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
4-Chlorotoluene	ND	3.0	10.1	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
4-Methyl-2-pentanone (MIBK)	ND	6.1	20.4	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
Acetone	ND	11.0	80.0	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
Benzene	ND	0.99	4.0	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
Bromobenzene	ND	0.96	4.0	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
Bromochloromethane	ND	1.4	20.0	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
Bromodichloromethane	ND	1.5	4.8	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
Bromoform	ND	15.9	53.0	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
Bromomethane	ND	3.9	20.0	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
Carbon disulfide	ND	1.5	20.0	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
Carbon tetrachloride	ND	0.66	4.0	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
Chlorobenzene	ND	2.8	9.5	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
Chloroethane	ND	5.4	20.0	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
Chloroform	ND	5.1	20.0	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
Chloromethane	ND	8.8	29.2	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
Dibromochloromethane	ND	10.4	34.7	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
Dibromomethane	ND	3.7	12.5	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
Dichlorodifluoromethane	ND	2.0	20.0	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	

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Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

TRC Environmental Corporation, Inc.
708 Heartland Trail, Ste 3000
Madison WI, 53717

Project: Madison Kipp Corporation - Madison, WI
Project Number: 323372.0000.000000002
Project Manager: Andrew Stehn

MP-14 (135-140)

A191520-13 (Water)

Date Sampled
04/08/2019 13:50

Pace Analytical-Green Bay, WI

EPA 8260 — **Preparation Batch:MSV 46655**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Diisopropyl ether	ND	7.6	25.2	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
Ethylbenzene	ND	0.87	4.0	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
Hexachloro-1,3-butadiene	ND	4.7	20.0	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
Isopropylbenzene (Cumene)	ND	1.6	20.0	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
Methyl-tert-butyl ether	ND	5.0	16.6	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
Methylene Chloride	ND	2.3	20.0	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
Naphthalene	ND	4.7	20.0	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
Styrene	ND	1.9	6.2	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
Tetrachloroethene	**408**	1.3	4.4	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
Tetrahydrofuran	ND	9.3	80.0	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
Toluene	ND	0.69	20.0	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
Trichloroethene	**31.0**	1.0	4.0	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
Trichlorofluoromethane	ND	0.86	4.0	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
Vinyl chloride	ND	0.70	4.0	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
Xylene (Total)	ND	6.0	12.0	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
cis-1,2-Dichloroethene	**15.6**	1.1	4.0	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
cis-1,3-Dichloropropene	ND	14.5	48.4	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
m&p-Xylene	ND	1.9	8.0	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
n-Butylbenzene	ND	2.8	9.4	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
n-Hexane	ND	6.8	22.8	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
n-Propylbenzene	ND	3.2	20.0	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
o-Xylene	ND	1.0	4.0	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
p-Isopropyltoluene	ND	3.2	10.7	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
sec-Butylbenzene	ND	3.4	20.0	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
tert-Butylbenzene	ND	1.2	4.1	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
trans-1,2-Dichloroethene	ND	4.4	14.5	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
trans-1,3-Dichloropropene	ND	17.5	58.3	ug/L	4	04/17/2019	04/17/2019 13:32	EPA 8260	
Surrogate: 4-Bromofluorobenzene (S)			*88 %*	*70-130*		*04/17/2019*	*04/17/2019 13:32*	*EPA 8260*	
Surrogate: Dibromofluoromethane (S)			*115 %*	*70-130*		*04/17/2019*	*04/17/2019 13:32*	*EPA 8260*	
Surrogate: Toluene-d8 (S)			*99 %*	*70-130*		*04/17/2019*	*04/17/2019 13:32*	*EPA 8260*	

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TRC Environmental Corporation, Inc.
708 Heartland Trail, Ste 3000
Madison WI, 53717

Project: Madison Kipp Corporation - Madison, WI
Project Number: 323372.0000.000000002
Project Manager: Andrew Stehn

MP-16 (140-144)

A191520-14 (Water)

Date Sampled
04/08/2019 11:30

Pace Analytical-Green Bay, WI

EPA 8260 — **Preparation Batch:MSV 46655**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	0.27	1.0	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
1,1,1-Trichloroethane	ND	0.24	1.0	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
1,1,2,2-Tetrachloroethane	ND	0.28	1.0	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
1,1,2-Trichloroethane	ND	0.55	5.0	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
1,1,2-Trichlorotrifluoroethane	ND	0.54	5.0	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
1,1-Dichloroethane	ND	0.27	1.0	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
1,1-Dichloroethene	ND	0.24	1.0	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
1,1-Dichloropropene	ND	0.54	1.8	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
1,2,3-Trichlorobenzene	ND	0.63	5.0	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
1,2,3-Trichloropropane	ND	0.59	5.0	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
1,2,4-Trichlorobenzene	ND	0.95	5.0	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
1,2,4-Trimethylbenzene	ND	0.84	2.8	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
1,2-Dibromo-3-chloropropane	ND	1.8	5.9	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
1,2-Dibromoethane (EDB)	ND	0.83	2.8	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
1,2-Dichlorobenzene	ND	0.71	2.4	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
1,2-Dichloroethane	ND	0.28	1.0	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
1,2-Dichloropropane	ND	0.28	1.0	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
1,3,5-Trimethylbenzene	ND	0.87	2.9	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
1,3-Dichlorobenzene	ND	0.63	2.1	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
1,3-Dichloropropane	ND	0.83	2.8	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
1,4-Dichlorobenzene	ND	0.94	3.1	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
2,2-Dichloropropane	ND	2.3	7.6	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
2-Butanone (MEK)	ND	2.9	20.0	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
2-Chlorotoluene	ND	0.93	5.0	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
2-Hexanone	ND	2.5	8.2	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
4-Chlorotoluene	ND	0.76	2.5	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
4-Methyl-2-pentanone (MIBK)	ND	1.5	5.1	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
Acetone	ND	2.7	20.0	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
Benzene	ND	0.25	1.0	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
Bromobenzene	ND	0.24	1.0	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
Bromochloromethane	ND	0.36	5.0	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
Bromodichloromethane	ND	0.36	1.2	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
Bromoform	ND	4.0	13.2	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
Bromomethane	ND	0.97	5.0	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
Carbon disulfide	ND	0.37	5.0	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
Carbon tetrachloride	ND	0.17	1.0	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
Chlorobenzene	ND	0.71	2.4	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
Chloroethane	ND	1.3	5.0	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
Chloroform	ND	1.3	5.0	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
Chloromethane	ND	2.2	7.3	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
Dibromochloromethane	ND	2.6	8.7	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
Dibromomethane	ND	0.94	3.1	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
Dichlorodifluoromethane	ND	0.50	5.0	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	

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708 Heartland Trail, Ste 3000
Madison WI, 53717

Project: Madison Kipp Corporation - Madison, WI
Project Number: 323372.0000.000000002
Project Manager: Andrew Stehn

MP-16 (140-144)

A191520-14 (Water)

Date Sampled
04/08/2019 11:30

Pace Analytical-Green Bay, WI

EPA 8260 — **Preparation Batch:MSV 46655**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Diisopropyl ether	ND	1.9	6.3	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
Ethylbenzene	ND	0.22	1.0	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
Hexachloro-1,3-butadiene	ND	1.2	5.0	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
Isopropylbenzene (Cumene)	ND	0.39	5.0	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
Methyl-tert-butyl ether	ND	1.2	4.2	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
Methylene Chloride	ND	0.58	5.0	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
Naphthalene	ND	1.2	5.0	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
Styrene	ND	0.47	1.6	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
Tetrachloroethene	**37.8**	0.33	1.1	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
Tetrahydrofuran	ND	2.3	20.0	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
Toluene	ND	0.17	5.0	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
Trichloroethene	**7.9**	0.26	1.0	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
Trichlorofluoromethane	ND	0.21	1.0	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
Vinyl chloride	ND	0.17	1.0	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
Xylene (Total)	ND	1.5	3.0	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
cis-1,2-Dichloroethene	**2.4**	0.27	1.0	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
cis-1,3-Dichloropropene	ND	3.6	12.1	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
m&p-Xylene	ND	0.47	2.0	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
n-Butylbenzene	ND	0.71	2.4	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
n-Hexane	ND	1.7	5.7	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
n-Propylbenzene	ND	0.81	5.0	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
o-Xylene	ND	0.26	1.0	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
p-Isopropyltoluene	ND	0.80	2.7	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
sec-Butylbenzene	ND	0.85	5.0	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
tert-Butylbenzene	ND	0.30	1.0	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
trans-1,2-Dichloroethene	ND	1.1	3.6	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
trans-1,3-Dichloropropene	ND	4.4	14.6	ug/L	1	04/17/2019	04/17/2019 11:59	EPA 8260	
Surrogate: 4-Bromofluorobenzene (S)			*87 %*	*70-130*		*04/17/2019*	*04/17/2019 11:59*	*EPA 8260*	
Surrogate: Dibromofluoromethane (S)			*114 %*	*70-130*		*04/17/2019*	*04/17/2019 11:59*	*EPA 8260*	
Surrogate: Toluene-d8 (S)			*98 %*	*70-130*		*04/17/2019*	*04/17/2019 11:59*	*EPA 8260*	

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TRC Environmental Corporation, Inc.
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Madison WI, 53717

Project: Madison Kipp Corporation - Madison, WI
Project Number: 323372.0000.000000002
Project Manager: Andrew Stehn

DUP-01

A191520-15 (Water)

Date Sampled
04/09/2019 00:00

Pace Analytical-Green Bay, WI

EPA 8260 — **Preparation Batch:MSV 46655**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	1.1	4.0	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
1,1,1-Trichloroethane	ND	0.98	4.0	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
1,1,2,2-Tetrachloroethane	ND	1.1	4.0	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
1,1,2-Trichloroethane	ND	2.2	20.0	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
1,1,2-Trichlorotrifluoroethane	ND	2.1	20.0	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
1,1-Dichloroethane	ND	1.1	4.0	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
1,1-Dichloroethene	ND	0.98	4.0	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
1,1-Dichloropropene	ND	2.2	7.2	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
1,2,3-Trichlorobenzene	ND	2.5	20.0	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
1,2,3-Trichloropropane	ND	2.4	20.0	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
1,2,4-Trichlorobenzene	ND	3.8	20.0	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
1,2,4-Trimethylbenzene	ND	3.4	11.2	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
1,2-Dibromo-3-chloropropane	ND	7.1	23.5	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
1,2-Dibromoethane (EDB)	ND	3.3	11.1	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
1,2-Dichlorobenzene	ND	2.8	9.4	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
1,2-Dichloroethane	ND	1.1	4.0	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
1,2-Dichloropropane	ND	1.1	4.0	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
1,3,5-Trimethylbenzene	ND	3.5	11.6	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
1,3-Dichlorobenzene	ND	2.5	8.4	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
1,3-Dichloropropane	ND	3.3	11.0	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
1,4-Dichlorobenzene	ND	3.8	12.6	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
2,2-Dichloropropane	ND	9.1	30.2	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
2-Butanone (MEK)	ND	11.7	80.0	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
2-Chlorotoluene	ND	3.7	20.0	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
2-Hexanone	ND	9.8	32.8	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
4-Chlorotoluene	ND	3.0	10.1	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
4-Methyl-2-pentanone (MIBK)	ND	6.1	20.4	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
Acetone	ND	11.0	80.0	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
Benzene	ND	0.99	4.0	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
Bromobenzene	ND	0.96	4.0	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
Bromochloromethane	ND	1.4	20.0	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
Bromodichloromethane	ND	1.5	4.8	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
Bromoform	ND	15.9	53.0	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
Bromomethane	ND	3.9	20.0	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
Carbon disulfide	ND	1.5	20.0	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
Carbon tetrachloride	ND	0.66	4.0	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
Chlorobenzene	ND	2.8	9.5	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
Chloroethane	ND	5.4	20.0	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
Chloroform	ND	5.1	20.0	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
Chloromethane	ND	8.8	29.2	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
Dibromochloromethane	ND	10.4	34.7	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
Dibromomethane	ND	3.7	12.5	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
Dichlorodifluoromethane	ND	2.0	20.0	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	

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Project: Madison Kipp Corporation - Madison, WI
Project Number: 323372.0000.000000002
Project Manager: Andrew Stehn

DUP-01

A191520-15 (Water)

Date Sampled
04/09/2019 00:00

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pace Analytical-Green Bay, WI									
EPA 8260						**Preparation Batch:MSV 46655**			
Diisopropyl ether	ND	7.6	25.2	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
Ethylbenzene	ND	0.87	4.0	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
Hexachloro-1,3-butadiene	ND	4.7	20.0	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
Isopropylbenzene (Cumene)	ND	1.6	20.0	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
Methyl-tert-butyl ether	ND	5.0	16.6	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
Methylene Chloride	ND	2.3	20.0	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
Naphthalene	ND	4.7	20.0	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
Styrene	ND	1.9	6.2	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
Tetrachloroethene	**263**	1.3	4.4	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
Tetrahydrofuran	ND	9.3	80.0	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
Toluene	ND	0.69	20.0	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
Trichloroethene	**34.0**	1.0	4.0	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
Trichlorofluoromethane	ND	0.86	4.0	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
Vinyl chloride	ND	0.70	4.0	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
Xylene (Total)	ND	6.0	12.0	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
cis-1,2-Dichloroethene	**43.4**	1.1	4.0	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
cis-1,3-Dichloropropene	ND	14.5	48.4	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
m&p-Xylene	ND	1.9	8.0	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
n-Butylbenzene	ND	2.8	9.4	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
n-Hexane	ND	6.8	22.8	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
n-Propylbenzene	ND	3.2	20.0	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
o-Xylene	ND	1.0	4.0	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
p-Isopropyltoluene	ND	3.2	10.7	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
sec-Butylbenzene	ND	3.4	20.0	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
tert-Butylbenzene	ND	1.2	4.1	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
trans-1,2-Dichloroethene	ND	4.4	14.5	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
trans-1,3-Dichloropropene	ND	17.5	58.3	ug/L	4	04/17/2019	04/17/2019 13:09	EPA 8260	
Surrogate: 4-Bromofluorobenzene (S)			*85 %*	*70-130*		*04/17/2019*	*04/17/2019 13:09*	*EPA 8260*	
Surrogate: Dibromofluoromethane (S)			*105 %*	*70-130*		*04/17/2019*	*04/17/2019 13:09*	*EPA 8260*	
Surrogate: Toluene-d8 (S)			*95 %*	*70-130*		*04/17/2019*	*04/17/2019 13:09*	*EPA 8260*	

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TRC Environmental Corporation, Inc.
708 Heartland Trail, Ste 3000
Madison WI, 53717

Project: Madison Kipp Corporation - Madison, WI
Project Number: 323372.0000.000000002
Project Manager: Andrew Stehn

DUP-03

A191520-16 (Water)

Date Sampled
04/11/2019 00:00

Pace Analytical-Green Bay, WI

EPA 8260 — **Preparation Batch:MSV 46655**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	6.7	25.0	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
1,1,1-Trichloroethane	ND	6.1	25.0	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
1,1,2,2-Tetrachloroethane	ND	6.9	25.0	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
1,1,2-Trichloroethane	ND	13.8	125	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
1,1,2-Trichlorotrifluoroethane	ND	13.4	125	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
1,1-Dichloroethane	ND	6.8	25.0	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
1,1-Dichloroethene	ND	6.1	25.0	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
1,1-Dichloropropene	ND	13.5	45.0	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
1,2,3-Trichlorobenzene	ND	15.6	125	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
1,2,3-Trichloropropane	ND	14.8	125	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
1,2,4-Trichlorobenzene	ND	23.8	125	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
1,2,4-Trimethylbenzene	**56.3**	21.0	70.0	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	Ja
1,2-Dibromo-3-chloropropane	ND	44.1	147	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
1,2-Dibromoethane (EDB)	ND	20.7	69.1	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
1,2-Dichlorobenzene	ND	17.6	58.8	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
1,2-Dichloroethane	ND	7.0	25.0	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
1,2-Dichloropropane	ND	7.1	25.0	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
1,3,5-Trimethylbenzene	ND	21.8	72.8	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
1,3-Dichlorobenzene	ND	15.7	52.3	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
1,3-Dichloropropane	ND	20.6	68.8	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
1,4-Dichlorobenzene	ND	23.6	78.6	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
2,2-Dichloropropane	ND	56.6	189	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
2-Butanone (MEK)	ND	73.4	500	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
2-Chlorotoluene	ND	23.2	125	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
2-Hexanone	ND	61.4	205	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
4-Chlorotoluene	ND	18.9	63.0	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
4-Methyl-2-pentanone (MIBK)	ND	38.3	128	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
Acetone	**197**	68.5	500	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	Ja
Benzene	**1280**	6.2	25.0	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
Bromobenzene	ND	6.0	25.0	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
Bromochloromethane	ND	9.1	125	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
Bromodichloromethane	ND	9.1	30.3	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
Bromoform	ND	99.3	331	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
Bromomethane	ND	24.3	125	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
Carbon disulfide	ND	9.4	125	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
Carbon tetrachloride	ND	4.1	25.0	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
Chlorobenzene	ND	17.8	59.2	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
Chloroethane	ND	33.6	125	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
Chloroform	ND	31.8	125	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
Chloromethane	ND	54.7	182	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
Dibromochloromethane	ND	65.0	217	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
Dibromomethane	ND	23.4	78.1	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
Dichlorodifluoromethane	ND	12.5	125	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	

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708 Heartland Trail, Ste 3000
Madison WI, 53717

Project: Madison Kipp Corporation - Madison, WI
Project Number: 323372.0000.000000002
Project Manager: Andrew Stehn

DUP-03

A191520-16 (Water)

Date Sampled
04/11/2019 00:00

Pace Analytical-Green Bay, WI

EPA 8260 — **Preparation Batch:MSV 46655**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Diisopropyl ether	ND	47.2	157	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
Ethylbenzene	**38.1**	5.5	25.0	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
Hexachloro-1,3-butadiene	ND	29.6	125	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
Isopropylbenzene (Cumene)	**16.8**	9.8	125	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	Ja
Methyl-tert-butyl ether	ND	31.1	104	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
Methylene Chloride	ND	14.5	125	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
Naphthalene	ND	29.4	125	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
Styrene	ND	11.6	38.8	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
Tetrachloroethene	ND	8.2	27.2	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
Tetrahydrofuran	ND	58.0	500	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
Toluene	**93.1**	4.3	125	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	Ja
Trichloroethene	**18.3**	6.4	25.0	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	Ja
Trichlorofluoromethane	ND	5.4	25.0	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
Vinyl chloride	ND	4.4	25.0	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
Xylene (Total)	**43.4**	37.5	75.0	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	Ja
cis-1,2-Dichloroethene	ND	6.8	25.0	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
cis-1,3-Dichloropropene	ND	90.7	302	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
m&p-Xylene	**43.4**	11.6	50.0	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	Ja
n-Butylbenzene	ND	17.7	59.0	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
n-Hexane	ND	42.7	142	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
n-Propylbenzene	ND	20.3	125	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
o-Xylene	ND	6.5	25.0	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
p-Isopropyltoluene	ND	20.0	66.7	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
sec-Butylbenzene	ND	21.2	125	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
tert-Butylbenzene	ND	7.6	25.3	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
trans-1,2-Dichloroethene	ND	27.3	90.9	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
trans-1,3-Dichloropropene	ND	109	364	ug/L	25	04/17/2019	04/17/2019 12:47	EPA 8260	
Surrogate: 4-Bromofluorobenzene (S)			*91 %*	*70-130*		*04/17/2019*	*04/17/2019 12:47*	*EPA 8260*	
Surrogate: Dibromofluoromethane (S)			*105 %*	*70-130*		*04/17/2019*	*04/17/2019 12:47*	*EPA 8260*	
Surrogate: Toluene-d8 (S)			*97 %*	*70-130*		*04/17/2019*	*04/17/2019 12:47*	*EPA 8260*	

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TRC Environmental Corporation, Inc.
708 Heartland Trail, Ste 3000
Madison WI, 53717

Project: Madison Kipp Corporation - Madison, WI
Project Number: 323372.0000.000000002
Project Manager: Andrew Stehn

FB-01

A191520-17 (Water)

Date Sampled
04/12/2019 14:30

Pace Analytical-Green Bay, WI

EPA 8260 — **Preparation Batch:MSV 46655**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	0.27	1.0	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
1,1,1-Trichloroethane	ND	0.24	1.0	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
1,1,2,2-Tetrachloroethane	ND	0.28	1.0	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
1,1,2-Trichloroethane	ND	0.55	5.0	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
1,1,2-Trichlorotrifluoroethane	ND	0.54	5.0	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
1,1-Dichloroethane	ND	0.27	1.0	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
1,1-Dichloroethene	ND	0.24	1.0	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
1,1-Dichloropropene	ND	0.54	1.8	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
1,2,3-Trichlorobenzene	ND	0.63	5.0	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
1,2,3-Trichloropropane	ND	0.59	5.0	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
1,2,4-Trichlorobenzene	ND	0.95	5.0	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
1,2,4-Trimethylbenzene	ND	0.84	2.8	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
1,2-Dibromo-3-chloropropane	ND	1.8	5.9	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
1,2-Dibromoethane (EDB)	ND	0.83	2.8	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
1,2-Dichlorobenzene	ND	0.71	2.4	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
1,2-Dichloroethane	ND	0.28	1.0	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
1,2-Dichloropropane	ND	0.28	1.0	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
1,3,5-Trimethylbenzene	ND	0.87	2.9	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
1,3-Dichlorobenzene	ND	0.63	2.1	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
1,3-Dichloropropane	ND	0.83	2.8	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
1,4-Dichlorobenzene	ND	0.94	3.1	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
2,2-Dichloropropane	ND	2.3	7.6	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
2-Butanone (MEK)	ND	2.9	20.0	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
2-Chlorotoluene	ND	0.93	5.0	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
2-Hexanone	ND	2.5	8.2	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
4-Chlorotoluene	ND	0.76	2.5	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
4-Methyl-2-pentanone (MIBK)	ND	1.5	5.1	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
Acetone	ND	2.7	20.0	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
Benzene	ND	0.25	1.0	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
Bromobenzene	ND	0.24	1.0	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
Bromochloromethane	ND	0.36	5.0	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
Bromodichloromethane	ND	0.36	1.2	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
Bromoform	ND	4.0	13.2	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
Bromomethane	ND	0.97	5.0	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
Carbon disulfide	ND	0.37	5.0	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
Carbon tetrachloride	ND	0.17	1.0	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
Chlorobenzene	ND	0.71	2.4	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
Chloroethane	ND	1.3	5.0	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
Chloroform	ND	1.3	5.0	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
Chloromethane	ND	2.2	7.3	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
Dibromochloromethane	ND	2.6	8.7	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
Dibromomethane	ND	0.94	3.1	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
Dichlorodifluoromethane	ND	0.50	5.0	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	

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Project: Madison Kipp Corporation - Madison, WI
Project Number: 323372.0000.000000002
Project Manager: Andrew Stehn

FB-01

A191520-17 (Water)

Date Sampled
04/12/2019 14:30

Pace Analytical-Green Bay, WI

EPA 8260 — **Preparation Batch:MSV 46655**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Diisopropyl ether	ND	1.9	6.3	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
Ethylbenzene	ND	0.22	1.0	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
Hexachloro-1,3-butadiene	ND	1.2	5.0	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
Isopropylbenzene (Cumene)	ND	0.39	5.0	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
Methyl-tert-butyl ether	ND	1.2	4.2	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
Methylene Chloride	ND	0.58	5.0	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
Naphthalene	ND	1.2	5.0	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
Styrene	ND	0.47	1.6	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
Tetrachloroethene	ND	0.33	1.1	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
Tetrahydrofuran	ND	2.3	20.0	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
Toluene	ND	0.17	5.0	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
Trichloroethene	ND	0.26	1.0	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
Trichlorofluoromethane	ND	0.21	1.0	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
Vinyl chloride	ND	0.17	1.0	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
Xylene (Total)	ND	1.5	3.0	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
cis-1,2-Dichloroethene	ND	0.27	1.0	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
cis-1,3-Dichloropropene	ND	3.6	12.1	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
m&p-Xylene	ND	0.47	2.0	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
n-Butylbenzene	ND	0.71	2.4	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
n-Hexane	ND	1.7	5.7	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
n-Propylbenzene	ND	0.81	5.0	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
o-Xylene	ND	0.26	1.0	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
p-Isopropyltoluene	ND	0.80	2.7	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
sec-Butylbenzene	ND	0.85	5.0	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
tert-Butylbenzene	ND	0.30	1.0	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
trans-1,2-Dichloroethene	ND	1.1	3.6	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
trans-1,3-Dichloropropene	ND	4.4	14.6	ug/L	1	04/16/2019	04/16/2019 12:00	EPA 8260	
Surrogate: 4-Bromofluorobenzene (S)			*94 %*	*70-130*		*04/16/2019*	*04/16/2019 12:00*	*EPA 8260*	
Surrogate: Dibromofluoromethane (S)			*104 %*	*70-130*		*04/16/2019*	*04/16/2019 12:00*	*EPA 8260*	
Surrogate: Toluene-d8 (S)			*100 %*	*70-130*		*04/16/2019*	*04/16/2019 12:00*	*EPA 8260*	

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TRC Environmental Corporation, Inc.
708 Heartland Trail, Ste 3000
Madison WI, 53717

Project: Madison Kipp Corporation - Madison, WI
Project Number: 323372.0000.000000002
Project Manager: Andrew Stehn

Trip Blank

A191520-18 (Water)

Date Sampled
04/08/2019 00:00

Pace Analytical-Green Bay, WI

EPA 8260 — **Preparation Batch:MSV 46655**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	0.27	1.0	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
1,1,1-Trichloroethane	ND	0.24	1.0	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
1,1,2,2-Tetrachloroethane	ND	0.28	1.0	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
1,1,2-Trichloroethane	ND	0.55	5.0	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
1,1,2-Trichlorotrifluoroethane	ND	0.54	5.0	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
1,1-Dichloroethane	ND	0.27	1.0	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
1,1-Dichloroethene	ND	0.24	1.0	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
1,1-Dichloropropene	ND	0.54	1.8	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
1,2,3-Trichlorobenzene	ND	0.63	5.0	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
1,2,3-Trichloropropane	ND	0.59	5.0	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
1,2,4-Trichlorobenzene	ND	0.95	5.0	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
1,2,4-Trimethylbenzene	ND	0.84	2.8	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
1,2-Dibromo-3-chloropropane	ND	1.8	5.9	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
1,2-Dibromoethane (EDB)	ND	0.83	2.8	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
1,2-Dichlorobenzene	ND	0.71	2.4	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
1,2-Dichloroethane	ND	0.28	1.0	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
1,2-Dichloropropane	ND	0.28	1.0	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
1,3,5-Trimethylbenzene	ND	0.87	2.9	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
1,3-Dichlorobenzene	ND	0.63	2.1	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
1,3-Dichloropropane	ND	0.83	2.8	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
1,4-Dichlorobenzene	ND	0.94	3.1	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
2,2-Dichloropropane	ND	2.3	7.6	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
2-Butanone (MEK)	ND	2.9	20.0	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
2-Chlorotoluene	ND	0.93	5.0	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
2-Hexanone	ND	2.5	8.2	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
4-Chlorotoluene	ND	0.76	2.5	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
4-Methyl-2-pentanone (MIBK)	ND	1.5	5.1	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
Acetone	ND	2.7	20.0	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
Benzene	ND	0.25	1.0	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
Bromobenzene	ND	0.24	1.0	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
Bromochloromethane	ND	0.36	5.0	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
Bromodichloromethane	ND	0.36	1.2	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
Bromoform	ND	4.0	13.2	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
Bromomethane	ND	0.97	5.0	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
Carbon disulfide	ND	0.37	5.0	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
Carbon tetrachloride	ND	0.17	1.0	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
Chlorobenzene	ND	0.71	2.4	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
Chloroethane	ND	1.3	5.0	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
Chloroform	ND	1.3	5.0	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
Chloromethane	ND	2.2	7.3	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
Dibromochloromethane	ND	2.6	8.7	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
Dibromomethane	ND	0.94	3.1	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
Dichlorodifluoromethane	ND	0.50	5.0	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	

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708 Heartland Trail, Ste 3000	Project Number: 323372.0000.000000002
Madison WI, 53717	Project Manager: Andrew Stehn

Trip Blank

A191520-18 (Water)

Date Sampled
04/08/2019 00:00

Pace Analytical-Green Bay, WI

EPA 8260 — **Preparation Batch:MSV 46655**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Diisopropyl ether	ND	1.9	6.3	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
Ethylbenzene	ND	0.22	1.0	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
Hexachloro-1,3-butadiene	ND	1.2	5.0	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
Isopropylbenzene (Cumene)	ND	0.39	5.0	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
Methyl-tert-butyl ether	ND	1.2	4.2	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
Methylene Chloride	ND	0.58	5.0	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
Naphthalene	ND	1.2	5.0	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
Styrene	ND	0.47	1.6	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
Tetrachloroethene	ND	0.33	1.1	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
Tetrahydrofuran	ND	2.3	20.0	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
Toluene	ND	0.17	5.0	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
Trichloroethene	ND	0.26	1.0	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
Trichlorofluoromethane	ND	0.21	1.0	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
Vinyl chloride	ND	0.17	1.0	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
Xylene (Total)	ND	1.5	3.0	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
cis-1,2-Dichloroethene	ND	0.27	1.0	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
cis-1,3-Dichloropropene	ND	3.6	12.1	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
m&p-Xylene	ND	0.47	2.0	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
n-Butylbenzene	ND	0.71	2.4	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
n-Hexane	ND	1.7	5.7	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
n-Propylbenzene	ND	0.81	5.0	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
o-Xylene	ND	0.26	1.0	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
p-Isopropyltoluene	ND	0.80	2.7	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
sec-Butylbenzene	ND	0.85	5.0	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
tert-Butylbenzene	ND	0.30	1.0	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
trans-1,2-Dichloroethene	ND	1.1	3.6	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
trans-1,3-Dichloropropene	ND	4.4	14.6	ug/L	1	04/16/2019	04/16/2019 11:15	EPA 8260	
Surrogate: 4-Bromofluorobenzene (S)			*91 %*	*70-130*		*04/16/2019*	*04/16/2019 11:15*	*EPA 8260*	
Surrogate: Dibromofluoromethane (S)			*110 %*	*70-130*		*04/16/2019*	*04/16/2019 11:15*	*EPA 8260*	
Surrogate: Toluene-d8 (S)			*97 %*	*70-130*		*04/16/2019*	*04/16/2019 11:15*	*EPA 8260*	

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Madison WI, 53717

Project: Madison Kipp Corporation - Madison, WI
Project Number: 323372.0000.000000002
Project Manager: Andrew Stehn

MW-3D

A191520-19 (Water)

Date Sampled
04/09/2019 15:53

Pace Analytical - Madison

Polychlorinated Biphenyls by EPA Method 8082 — **Preparation Batch:A904178**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
PCB-1016	ND	0.0072	0.13	ug/L	1	04/17/2019	04/26/2019 13:03	EPA 8082A	
PCB-1221	ND	0.026	0.25	ug/L	1	04/17/2019	04/26/2019 13:03	EPA 8082A	
PCB-1232	ND	0.0042	0.13	ug/L	1	04/17/2019	04/26/2019 13:03	EPA 8082A	
PCB-1242	ND	0.013	0.13	ug/L	1	04/17/2019	04/26/2019 13:03	EPA 8082A	
PCB-1248	ND	0.011	0.13	ug/L	1	04/17/2019	04/26/2019 13:03	EPA 8082A	
PCB-1254	ND	0.010	0.13	ug/L	1	04/17/2019	04/26/2019 13:03	EPA 8082A	
PCB-1260	ND	0.012	0.13	ug/L	1	04/17/2019	04/26/2019 13:03	EPA 8082A	
Total PCBs	ND	0.026	0.25	ug/L	1	04/17/2019	04/26/2019 13:03	EPA 8082A	
Surrogate: Tetrachloro-meta-xylene			*73.3 %*	*68.8-135*		*04/17/2019*	*04/26/2019 13:03*	*EPA 8082A*	
Surrogate: Decachlorobiphenyl			*70.6 %*	*82.2-139*		*04/17/2019*	*04/26/2019 13:03*	*EPA 8082A*	

Pace Analytical-Green Bay, WI

SM 2540C — **Preparation Batch:WET 34998**

Total Dissolved Solids	**2060**	8.7	20.0	mg/L	1	04/16/2019	04/16/2019 13:51	SM 2540C	

SM 2540D — **Preparation Batch:WET 34991**

Total Suspended Solids	**4.4**	0.95	2.0	mg/L	1	04/16/2019	04/16/2019 11:27	SM 2540D	

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708 Heartland Trail, Ste 3000	Project Number: 323372.0000.000000002
Madison WI, 53717	Project Manager: Andrew Stehn

MW-4S

A191520-20 (Water)

Date Sampled
04/11/2019 12:57

Pace Analytical - Madison

Polychlorinated Biphenyls by EPA Method 8082 — **Preparation Batch:A904178**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
PCB-1016	ND	0.0072	0.13	ug/L	1	04/17/2019	04/26/2019 13:28	EPA 8082A	
PCB-1221	ND	0.026	0.25	ug/L	1	04/17/2019	04/26/2019 13:28	EPA 8082A	
PCB-1232	ND	0.0042	0.13	ug/L	1	04/17/2019	04/26/2019 13:28	EPA 8082A	
PCB-1242	ND	0.013	0.13	ug/L	1	04/17/2019	04/26/2019 13:28	EPA 8082A	
PCB-1248	ND	0.011	0.13	ug/L	1	04/17/2019	04/26/2019 13:28	EPA 8082A	
PCB-1254	ND	0.010	0.13	ug/L	1	04/17/2019	04/26/2019 13:28	EPA 8082A	
PCB-1260	ND	0.012	0.13	ug/L	1	04/17/2019	04/26/2019 13:28	EPA 8082A	
Total PCBs	ND	0.026	0.25	ug/L	1	04/17/2019	04/26/2019 13:28	EPA 8082A	
Surrogate: Tetrachloro-meta-xylene			*91.8 %*	*68.8-135*		*04/17/2019*	*04/26/2019 13:28*	*EPA 8082A*	
Surrogate: Decachlorobiphenyl			*96.4 %*	*82.2-139*		*04/17/2019*	*04/26/2019 13:28*	*EPA 8082A*	

Pace Analytical-Green Bay, WI

SM 2540C — **Preparation Batch:WET 34998**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Total Dissolved Solids	**2260**	8.7	20.0	mg/L	1	04/16/2019	04/16/2019 13:51	SM 2540C	

SM 2540D — **Preparation Batch:WET 34991**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Total Suspended Solids	**1.6**	0.95	2.0	mg/L	1	04/16/2019	04/16/2019 11:27	SM 2540D	Ja

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708 Heartland Trail, Ste 3000	Project Number: 323372.0000.000000002
Madison WI, 53717	Project Manager: Andrew Stehn

MW-4D

A191520-21 (Water)

Date Sampled
04/11/2019 14:31

Pace Analytical - Madison

Polychlorinated Biphenyls by EPA Method 8082 — **Preparation Batch:A904178**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
PCB-1016	ND	0.0072	0.13	ug/L	1	04/17/2019	04/26/2019 13:53	EPA 8082A	
PCB-1221	ND	0.026	0.25	ug/L	1	04/17/2019	04/26/2019 13:53	EPA 8082A	
PCB-1232	ND	0.0042	0.13	ug/L	1	04/17/2019	04/26/2019 13:53	EPA 8082A	
PCB-1242	ND	0.013	0.13	ug/L	1	04/17/2019	04/26/2019 13:53	EPA 8082A	
PCB-1248	ND	0.011	0.13	ug/L	1	04/17/2019	04/26/2019 13:53	EPA 8082A	
PCB-1254	ND	0.010	0.13	ug/L	1	04/17/2019	04/26/2019 13:53	EPA 8082A	
PCB-1260	ND	0.012	0.13	ug/L	1	04/17/2019	04/26/2019 13:53	EPA 8082A	
Total PCBs	ND	0.026	0.25	ug/L	1	04/17/2019	04/26/2019 13:53	EPA 8082A	
Surrogate: Tetrachloro-meta-xylene			*94.8 %*	*68.8-135*		*04/17/2019*	*04/26/2019 13:53*	*EPA 8082A*	
Surrogate: Decachlorobiphenyl			*101 %*	*82.2-139*		*04/17/2019*	*04/26/2019 13:53*	*EPA 8082A*	

Pace Analytical-Green Bay, WI

SM 2540C — **Preparation Batch:WET 34998**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Total Dissolved Solids	**894**	8.7	20.0	mg/L	1	04/16/2019	04/16/2019 13:51	SM 2540C	

SM 2540D — **Preparation Batch:WET 34991**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Total Suspended Solids	**1.4**	0.95	2.0	mg/L	1	04/16/2019	04/16/2019 11:27	SM 2540D	Ja

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Project: Madison Kipp Corporation - Madison, WI
Project Number: 323372.0000.000000002
Project Manager: Andrew Stehn

MW-5S

A191520-22 (Water)

Date Sampled
04/10/2019 15:22

Pace Analytical - Madison

Polychlorinated Biphenyls by EPA Method 8082 — **Preparation Batch:A904178**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
PCB-1016	ND	0.0072	0.13	ug/L	1	04/17/2019	04/26/2019 14:18	EPA 8082A	
PCB-1221	ND	0.026	0.25	ug/L	1	04/17/2019	04/26/2019 14:18	EPA 8082A	
PCB-1232	ND	0.0042	0.13	ug/L	1	04/17/2019	04/26/2019 14:18	EPA 8082A	
PCB-1242	ND	0.013	0.13	ug/L	1	04/17/2019	04/26/2019 14:18	EPA 8082A	
PCB-1248	ND	0.011	0.13	ug/L	1	04/17/2019	04/26/2019 14:18	EPA 8082A	
PCB-1254	ND	0.010	0.13	ug/L	1	04/17/2019	04/26/2019 14:18	EPA 8082A	
PCB-1260	ND	0.012	0.13	ug/L	1	04/17/2019	04/26/2019 14:18	EPA 8082A	
Total PCBs	ND	0.026	0.25	ug/L	1	04/17/2019	04/26/2019 14:18	EPA 8082A	
Surrogate: Tetrachloro-meta-xylene			*85.9 %*	*68.8-135*		*04/17/2019*	*04/26/2019 14:18*	*EPA 8082A*	
Surrogate: Decachlorobiphenyl			*88.5 %*	*82.2-139*		*04/17/2019*	*04/26/2019 14:18*	*EPA 8082A*	

Pace Analytical-Green Bay, WI

SM 2540C — **Preparation Batch:WET 34998**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Total Dissolved Solids	**1060**	8.7	20.0	mg/L	1	04/16/2019	04/16/2019 13:52	SM 2540C	

SM 2540D — **Preparation Batch:WET 34991**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Total Suspended Solids	**2.4**	0.95	2.0	mg/L	1	04/16/2019	04/16/2019 11:27	SM 2540D	

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708 Heartland Trail, Ste 3000	Project Number: 323372.0000.000000002
Madison WI, 53717	Project Manager: Andrew Stehn

MW-6S

A191520-23 (Water)

Date Sampled
04/12/2019 13:38

Pace Analytical - Madison

Polychlorinated Biphenyls by EPA Method 8082 — **Preparation Batch:A904178**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
PCB-1016	ND	0.0072	0.13	ug/L	1	04/17/2019	04/26/2019 15:33	EPA 8082A	
PCB-1221	ND	0.026	0.25	ug/L	1	04/17/2019	04/26/2019 15:33	EPA 8082A	
PCB-1232	ND	0.0042	0.13	ug/L	1	04/17/2019	04/26/2019 15:33	EPA 8082A	
PCB-1242	ND	0.013	0.13	ug/L	1	04/17/2019	04/26/2019 15:33	EPA 8082A	
PCB-1248	ND	0.011	0.13	ug/L	1	04/17/2019	04/26/2019 15:33	EPA 8082A	
PCB-1254	ND	0.010	0.13	ug/L	1	04/17/2019	04/26/2019 15:33	EPA 8082A	
PCB-1260	ND	0.012	0.13	ug/L	1	04/17/2019	04/26/2019 15:33	EPA 8082A	
Total PCBs	ND	0.026	0.25	ug/L	1	04/17/2019	04/26/2019 15:33	EPA 8082A	
Surrogate: Tetrachloro-meta-xylene			*112 %*	*68.8-135*		*04/17/2019*	*04/26/2019 15:33*	*EPA 8082A*	
Surrogate: Decachlorobiphenyl			*115 %*	*82.2-139*		*04/17/2019*	*04/26/2019 15:33*	*EPA 8082A*	

Pace Analytical-Green Bay, WI

SM 2540C — **Preparation Batch:WET 35013**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Total Dissolved Solids	**4400**	21.7	50.0	mg/L	1	04/17/2019	04/17/2019 15:50	SM 2540C	

SM 2540D — **Preparation Batch:WET 34991**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Total Suspended Solids	**1.8**	0.95	2.0	mg/L	1	04/16/2019	04/16/2019 11:27	SM 2540D	Ja

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708 Heartland Trail, Ste 3000	Project Number: 323372.0000.000000002
Madison WI, 53717	Project Manager: Andrew Stehn

MW-11S

A191520-24 (Water)

Date Sampled
04/09/2019 12:35

Pace Analytical - Madison

Polychlorinated Biphenyls by EPA Method 8082 — **Preparation Batch:A904178**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
PCB-1016	ND	0.0072	0.13	ug/L	1	04/17/2019	04/26/2019 15:58	EPA 8082A	
PCB-1221	ND	0.026	0.25	ug/L	1	04/17/2019	04/26/2019 15:58	EPA 8082A	
PCB-1232	ND	0.0042	0.13	ug/L	1	04/17/2019	04/26/2019 15:58	EPA 8082A	
PCB-1242	ND	0.013	0.13	ug/L	1	04/17/2019	04/26/2019 15:58	EPA 8082A	
PCB-1248	ND	0.011	0.13	ug/L	1	04/17/2019	04/26/2019 15:58	EPA 8082A	
PCB-1254	ND	0.010	0.13	ug/L	1	04/17/2019	04/26/2019 15:58	EPA 8082A	
PCB-1260	ND	0.012	0.13	ug/L	1	04/17/2019	04/26/2019 15:58	EPA 8082A	
Total PCBs	ND	0.026	0.25	ug/L	1	04/17/2019	04/26/2019 15:58	EPA 8082A	
Surrogate: Tetrachloro-meta-xylene			*90.3 %*	*68.8-135*		*04/17/2019*	*04/26/2019 15:58*	*EPA 8082A*	
Surrogate: Decachlorobiphenyl			*98.9 %*	*82.2-139*		*04/17/2019*	*04/26/2019 15:58*	*EPA 8082A*	

Pace Analytical-Green Bay, WI

SM 2540C — **Preparation Batch:WET 34998**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Total Dissolved Solids	**1460**	8.7	20.0	mg/L	1	04/16/2019	04/16/2019 13:52	SM 2540C	

SM 2540D — **Preparation Batch:WET 34991**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Total Suspended Solids	**1.4**	0.95	2.0	mg/L	1	04/16/2019	04/16/2019 11:27	SM 2540D	Ja

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Madison WI, 53717	Project Manager: Andrew Stehn

MW-24

A191520-25 (Water)

Date Sampled
04/09/2019 14:12

Pace Analytical - Madison

Polychlorinated Biphenyls by EPA Method 8082 — **Preparation Batch:A904178**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
PCB-1016	ND	0.0072	0.13	ug/L	1	04/17/2019	04/26/2019 18:04	EPA 8082A	
PCB-1221	ND	0.026	0.25	ug/L	1	04/17/2019	04/26/2019 18:04	EPA 8082A	
PCB-1232	ND	0.0042	0.13	ug/L	1	04/17/2019	04/26/2019 18:04	EPA 8082A	
PCB-1242	ND	0.013	0.13	ug/L	1	04/17/2019	04/26/2019 18:04	EPA 8082A	
PCB-1248	ND	0.011	0.13	ug/L	1	04/17/2019	04/26/2019 18:04	EPA 8082A	
PCB-1254	ND	0.010	0.13	ug/L	1	04/17/2019	04/26/2019 18:04	EPA 8082A	
PCB-1260	ND	0.012	0.13	ug/L	1	04/17/2019	04/26/2019 18:04	EPA 8082A	
Total PCBs	ND	0.026	0.25	ug/L	1	04/17/2019	04/26/2019 18:04	EPA 8082A	
Surrogate: Tetrachloro-meta-xylene			*90.5 %*	*68.8-135*		*04/17/2019*	*04/26/2019 18:04*	*EPA 8082A*	
Surrogate: Decachlorobiphenyl			*93.7 %*	*82.2-139*		*04/17/2019*	*04/26/2019 18:04*	*EPA 8082A*	

Pace Analytical-Green Bay, WI

SM 2540C — **Preparation Batch:WET 34998**

Total Dissolved Solids	**2170**	8.7	20.0	mg/L	1	04/16/2019	04/16/2019 13:52	SM 2540C	

SM 2540D — **Preparation Batch:WET 34991**

Total Suspended Solids	**3.2**	0.95	2.0	mg/L	1	04/16/2019	04/16/2019 11:27	SM 2540D	

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Madison WI, 53717	Project Manager: Andrew Stehn

MW-28

A191520-26 (Water)

Date Sampled
04/12/2019 12:30

Pace Analytical - Madison

Polychlorinated Biphenyls by EPA Method 8082 — **Preparation Batch:A904178**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
PCB-1016	ND	0.0072	0.13	ug/L	1	04/17/2019	04/26/2019 18:29	EPA 8082A	
PCB-1221	ND	0.026	0.25	ug/L	1	04/17/2019	04/26/2019 18:29	EPA 8082A	
PCB-1232	ND	0.0042	0.13	ug/L	1	04/17/2019	04/26/2019 18:29	EPA 8082A	
PCB-1242	ND	0.013	0.13	ug/L	1	04/17/2019	04/26/2019 18:29	EPA 8082A	
PCB-1248	ND	0.011	0.13	ug/L	1	04/17/2019	04/26/2019 18:29	EPA 8082A	
PCB-1254	ND	0.010	0.13	ug/L	1	04/17/2019	04/26/2019 18:29	EPA 8082A	
PCB-1260	ND	0.012	0.13	ug/L	1	04/17/2019	04/26/2019 18:29	EPA 8082A	
Total PCBs	ND	0.026	0.25	ug/L	1	04/17/2019	04/26/2019 18:29	EPA 8082A	
Surrogate: Tetrachloro-meta-xylene			*87.7 %*	*68.8-135*		*04/17/2019*	*04/26/2019 18:29*	*EPA 8082A*	
Surrogate: Decachlorobiphenyl			*91.7 %*	*82.2-139*		*04/17/2019*	*04/26/2019 18:29*	*EPA 8082A*	

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SM 2540C — **Preparation Batch:WET 34998**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Total Dissolved Solids	**1310**	8.7	20.0	mg/L	1	04/16/2019	04/16/2019 13:52	SM 2540C	

SM 2540D — **Preparation Batch:WET 34991**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Total Suspended Solids	**1.4**	0.95	2.0	mg/L	1	04/16/2019	04/16/2019 11:27	SM 2540D	Ja

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MW-29S

A191520-27 (Water)

Date Sampled
04/12/2019 10:49

Pace Analytical - Madison

Polychlorinated Biphenyls by EPA Method 8082 — **Preparation Batch:A904178**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
PCB-1016	ND	0.0072	0.13	ug/L	1	04/17/2019	04/26/2019 18:54	EPA 8082A	
PCB-1221	ND	0.026	0.25	ug/L	1	04/17/2019	04/26/2019 18:54	EPA 8082A	
PCB-1232	ND	0.0042	0.13	ug/L	1	04/17/2019	04/26/2019 18:54	EPA 8082A	
PCB-1242	ND	0.013	0.13	ug/L	1	04/17/2019	04/26/2019 18:54	EPA 8082A	
PCB-1248	ND	0.011	0.13	ug/L	1	04/17/2019	04/26/2019 18:54	EPA 8082A	
PCB-1254	ND	0.010	0.13	ug/L	1	04/17/2019	04/26/2019 18:54	EPA 8082A	
PCB-1260	ND	0.012	0.13	ug/L	1	04/17/2019	04/26/2019 18:54	EPA 8082A	
Total PCBs	ND	0.026	0.25	ug/L	1	04/17/2019	04/26/2019 18:54	EPA 8082A	
Surrogate: Tetrachloro-meta-xylene			*92.9 %*	*68.8-135*		*04/17/2019*	*04/26/2019 18:54*	*EPA 8082A*	
Surrogate: Decachlorobiphenyl			*97.2 %*	*82.2-139*		*04/17/2019*	*04/26/2019 18:54*	*EPA 8082A*	

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SM 2540C — **Preparation Batch:WET 34998**

Total Dissolved Solids	**762**	8.7	20.0	mg/L	1	04/16/2019	04/16/2019 13:53	SM 2540C	

SM 2540D — **Preparation Batch:WET 34994**

Total Suspended Solids	ND	0.95	2.0	mg/L	1	04/16/2019	04/16/2019 12:50	SM 2540D	

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Madison WI, 53717	Project Manager: Andrew Stehn

MW-29D

A191520-28 (Water)

Date Sampled
04/12/2019 10:54

Pace Analytical - Madison

Polychlorinated Biphenyls by EPA Method 8082 — **Preparation Batch:A904178**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
PCB-1016	ND	0.0072	0.13	ug/L	1	04/17/2019	04/26/2019 19:19	EPA 8082A	
PCB-1221	ND	0.026	0.25	ug/L	1	04/17/2019	04/26/2019 19:19	EPA 8082A	
PCB-1232	ND	0.0042	0.13	ug/L	1	04/17/2019	04/26/2019 19:19	EPA 8082A	
PCB-1242	ND	0.013	0.13	ug/L	1	04/17/2019	04/26/2019 19:19	EPA 8082A	
PCB-1248	ND	0.011	0.13	ug/L	1	04/17/2019	04/26/2019 19:19	EPA 8082A	
PCB-1254	ND	0.010	0.13	ug/L	1	04/17/2019	04/26/2019 19:19	EPA 8082A	
PCB-1260	ND	0.012	0.13	ug/L	1	04/17/2019	04/26/2019 19:19	EPA 8082A	
Total PCBs	ND	0.026	0.25	ug/L	1	04/17/2019	04/26/2019 19:19	EPA 8082A	
Surrogate: Tetrachloro-meta-xylene			*87.2 %*	*68.8-135*		*04/17/2019*	*04/26/2019 19:19*	*EPA 8082A*	
Surrogate: Decachlorobiphenyl			*91.6 %*	*82.2-139*		*04/17/2019*	*04/26/2019 19:19*	*EPA 8082A*	

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SM 2540C — **Preparation Batch:WET 34998**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Total Dissolved Solids	**780**	8.7	20.0	mg/L	1	04/16/2019	04/16/2019 13:53	SM 2540C	

SM 2540D — **Preparation Batch:WET 34994**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Total Suspended Solids	ND	0.95	2.0	mg/L	1	04/16/2019	04/16/2019 12:50	SM 2540D	

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Madison WI, 53717	Project Manager: Andrew Stehn

DUP-01

A191520-29 (Water)

Date Sampled
04/09/2019 00:00

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pace Analytical - Madison									
Polychlorinated Biphenyls by EPA Method 8082							**Preparation Batch:A904178**		
PCB-1016	ND	0.0072	0.13	ug/L	1	04/17/2019	04/26/2019 19:44	EPA 8082A	
PCB-1221	ND	0.026	0.25	ug/L	1	04/17/2019	04/26/2019 19:44	EPA 8082A	
PCB-1232	ND	0.0042	0.13	ug/L	1	04/17/2019	04/26/2019 19:44	EPA 8082A	
PCB-1242	ND	0.013	0.13	ug/L	1	04/17/2019	04/26/2019 19:44	EPA 8082A	
PCB-1248	ND	0.011	0.13	ug/L	1	04/17/2019	04/26/2019 19:44	EPA 8082A	
PCB-1254	ND	0.010	0.13	ug/L	1	04/17/2019	04/26/2019 19:44	EPA 8082A	
PCB-1260	ND	0.012	0.13	ug/L	1	04/17/2019	04/26/2019 19:44	EPA 8082A	
Total PCBs	ND	0.026	0.25	ug/L	1	04/17/2019	04/26/2019 19:44	EPA 8082A	
Surrogate: Tetrachloro-meta-xylene			*94.8 %*	*68.8-135*		*04/17/2019*	*04/26/2019 19:44*	*EPA 8082A*	
Surrogate: Decachlorobiphenyl			*101 %*	*82.2-139*		*04/17/2019*	*04/26/2019 19:44*	*EPA 8082A*	
Pace Analytical-Green Bay, WI									
SM 2540C							**Preparation Batch:WET 34998**		
Total Dissolved Solids	**2020**	8.7	20.0	mg/L	1	04/16/2019	04/16/2019 13:53	SM 2540C	
SM 2540D							**Preparation Batch:WET 34991**		
Total Suspended Solids	**4.6**	0.95	2.0	mg/L	1	04/16/2019	04/16/2019 11:27	SM 2540D	

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Madison WI, 53717	Project Manager: Andrew Stehn

DUP-02

A191520-30 (Water)

Date Sampled
04/11/2019 00:00

Pace Analytical-Green Bay, WI

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
SM 2540C							**Preparation Batch:WET 34998**		
Total Dissolved Solids	**820**	8.7	20.0	mg/L	1	04/16/2019	04/16/2019 13:53	SM 2540C	
SM 2540D							**Preparation Batch:WET 34994**		
Total Suspended Solids	ND	0.95	2.0	mg/L	1	04/16/2019	04/16/2019 12:50	SM 2540D	

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Madison WI, 53717	Project Manager: Andrew Stehn

DUP-02

A191520-30RE1 (Water)

Date Sampled
04/11/2019 00:00

Pace Analytical - Madison

Polychlorinated Biphenyls by EPA Method 8082 — **Preparation Batch:A904225**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
PCB-1016	ND	0.0072	0.13	ug/L	1	04/30/2019	05/01/2019 19:15	EPA 8082A	
PCB-1221	ND	0.026	0.25	ug/L	1	04/30/2019	05/01/2019 19:15	EPA 8082A	
PCB-1232	ND	0.0042	0.13	ug/L	1	04/30/2019	05/01/2019 19:15	EPA 8082A	
PCB-1242	ND	0.013	0.13	ug/L	1	04/30/2019	05/01/2019 19:15	EPA 8082A	
PCB-1248	ND	0.011	0.13	ug/L	1	04/30/2019	05/01/2019 19:15	EPA 8082A	
PCB-1254	ND	0.010	0.13	ug/L	1	04/30/2019	05/01/2019 19:15	EPA 8082A	
PCB-1260	ND	0.012	0.13	ug/L	1	04/30/2019	05/01/2019 19:15	EPA 8082A	
Total PCBs	ND	0.026	0.25	ug/L	1	04/30/2019	05/01/2019 19:15	EPA 8082A	
Surrogate: Tetrachloro-meta-xylene			*91.4 %*	*68.8-135*		*04/30/2019*	*05/01/2019 19:15*	*EPA 8082A*	
Surrogate: Decachlorobiphenyl			*104 %*	*82.2-139*		*04/30/2019*	*05/01/2019 19:15*	*EPA 8082A*	

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Madison WI, 53717	Project Manager: Andrew Stehn

FB-01

A191520-31 (Water)

Date Sampled
04/12/2019 14:30

Pace Analytical - Madison

Polychlorinated Biphenyls by EPA Method 8082 — **Preparation Batch:A904178**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
PCB-1016	ND	0.0072	0.13	ug/L	1	04/17/2019	04/26/2019 20:34	EPA 8082A	
PCB-1221	ND	0.026	0.25	ug/L	1	04/17/2019	04/26/2019 20:34	EPA 8082A	
PCB-1232	ND	0.0042	0.13	ug/L	1	04/17/2019	04/26/2019 20:34	EPA 8082A	
PCB-1242	ND	0.013	0.13	ug/L	1	04/17/2019	04/26/2019 20:34	EPA 8082A	
PCB-1248	ND	0.011	0.13	ug/L	1	04/17/2019	04/26/2019 20:34	EPA 8082A	
PCB-1254	ND	0.010	0.13	ug/L	1	04/17/2019	04/26/2019 20:34	EPA 8082A	
PCB-1260	ND	0.012	0.13	ug/L	1	04/17/2019	04/26/2019 20:34	EPA 8082A	
Total PCBs	ND	0.026	0.25	ug/L	1	04/17/2019	04/26/2019 20:34	EPA 8082A	
Surrogate: Tetrachloro-meta-xylene			*88.9 %*	*68.8-135*		*04/17/2019*	*04/26/2019 20:34*	*EPA 8082A*	
Surrogate: Decachlorobiphenyl			*91.6 %*	*82.2-139*		*04/17/2019*	*04/26/2019 20:34*	*EPA 8082A*	

Pace Analytical-Green Bay, WI

SM 2540C — **Preparation Batch:WET 34998**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Total Dissolved Solids	ND	8.7	20.0	mg/L	1	04/16/2019	04/16/2019 13:53	SM 2540C	

SM 2540D — **Preparation Batch:WET 34994**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Total Suspended Solids	ND	0.95	2.0	mg/L	1	04/16/2019	04/16/2019 12:50	SM 2540D	

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Madison WI, 53717	Project Manager: Andrew Stehn

Polychlorinated Biphenyls by EPA Method 8082 - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A904178 - EPA 3511										
Blank (A904178-BLK1)				Prepared: 04/17/2019 Analyzed: 04/26/2019 12:38						
PCB-1016	ND	0.13	ug/L							
PCB-1221	ND	0.25	ug/L							
PCB-1232	ND	0.13	ug/L							
PCB-1242	ND	0.13	ug/L							
PCB-1248	ND	0.13	ug/L							
PCB-1254	ND	0.13	ug/L							
PCB-1260	0.049	0.13	ug/L							J
Total PCBs	0.049	0.25	ug/L							J
Surrogate: Tetrachloro-meta-xylene	*0.737*		*ug/L*	*0.7500*		*98.3*	*68.8-135*			
Surrogate: Decachlorobiphenyl	*0.840*		*ug/L*	*0.7500*		*112*	*82.2-139*			
LCS (A904178-BS1)				Prepared: 04/17/2019 Analyzed: 04/26/2019 12:13						
PCB-1016	13.0	0.13	ug/L	12.50		104	69.9-149			
PCB-1260	14.4	0.13	ug/L	12.50		115	82.2-144			B
Surrogate: Tetrachloro-meta-xylene	*0.736*		*ug/L*	*0.7500*		*98.1*	*68.8-135*			
Surrogate: Decachlorobiphenyl	*0.848*		*ug/L*	*0.7500*		*113*	*82.2-139*			
Matrix Spike (A904178-MS1)	**Source: A191520-22**			Prepared: 04/17/2019 Analyzed: 04/26/2019 14:43						
PCB-1016	12.3	0.13	ug/L	12.50	ND	98.8	60-140			
PCB-1260	13.5	0.13	ug/L	12.50	ND	108	60-140			B
Surrogate: Tetrachloro-meta-xylene	*0.719*		*ug/L*	*0.7500*		*95.8*	*68.8-135*			
Surrogate: Decachlorobiphenyl	*0.782*		*ug/L*	*0.7500*		*104*	*82.2-139*			
Matrix Spike Dup (A904178-MSD1)	**Source: A191520-22**			Prepared: 04/17/2019 Analyzed: 04/26/2019 15:08						
PCB-1016	12.8	0.13	ug/L	12.50	ND	102	60-140	3.59	20	
PCB-1260	14.0	0.13	ug/L	12.50	ND	112	60-140	3.65	20	B
Surrogate: Tetrachloro-meta-xylene	*0.718*		*ug/L*	*0.7500*		*95.7*	*68.8-135*			
Surrogate: Decachlorobiphenyl	*0.769*		*ug/L*	*0.7500*		*102*	*82.2-139*			

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608.221.4889 Fax

TRC Environmental Corporation, Inc.	Project: Madison Kipp Corporation - Madison, WI
708 Heartland Trail, Ste 3000	Project Number: 323372.0000.000000002
Madison WI, 53717	Project Manager: Andrew Stehn

Polychlorinated Biphenyls by EPA Method 8082 - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A904225 - EPA 3511										
Blank (A904225-BLK1)				Prepared: 04/30/2019 Analyzed: 05/01/2019 17:09						
PCB-1016	ND	0.13	ug/L							
PCB-1221	ND	0.25	ug/L							
PCB-1232	ND	0.13	ug/L							
PCB-1242	ND	0.13	ug/L							
PCB-1248	ND	0.13	ug/L							
PCB-1254	ND	0.13	ug/L							
PCB-1260	ND	0.13	ug/L							
Total PCBs	ND	0.25	ug/L							
Surrogate: Tetrachloro-meta-xylene	*0.649*		*ug/L*	*0.7500*		*86.5*	*68.8-135*			
Surrogate: Decachlorobiphenyl	*0.766*		*ug/L*	*0.7500*		*102*	*82.2-139*			
LCS (A904225-BS1)				Prepared: 04/30/2019 Analyzed: 05/01/2019 17:34						
PCB-1016	14.9	0.13	ug/L	12.50		119	69.9-149			
PCB-1260	16.1	0.13	ug/L	12.50		129	82.2-144			
Surrogate: Tetrachloro-meta-xylene	*0.794*		*ug/L*	*0.7500*		*106*	*68.8-135*			
Surrogate: Decachlorobiphenyl	*0.853*		*ug/L*	*0.7500*		*114*	*82.2-139*			
LCS Dup (A904225-BSD1)				Prepared: 04/30/2019 Analyzed: 05/01/2019 18:49						
PCB-1016	14.6	0.13	ug/L	12.50		117	69.9-149	1.83	20	
PCB-1260	15.8	0.13	ug/L	12.50		126	82.2-144	1.93	20	
Surrogate: Tetrachloro-meta-xylene	*0.754*		*ug/L*	*0.7500*		*101*	*68.8-135*			
Surrogate: Decachlorobiphenyl	*0.838*		*ug/L*	*0.7500*		*112*	*82.2-139*			

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TRC Environmental Corporation, Inc.	Project: Madison Kipp Corporation - Madison, WI
708 Heartland Trail, Ste 3000	Project Number: 323372.0000.000000002
Madison WI, 53717	Project Manager: Andrew Stehn

Notes and Definitions

Ja	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
J	Analyte was detected but is below the reporting limit. The concentration is estimated.
B	Analyte is also detected in the associated method blank.
ND	Analyte NOT DETECTED at or above the reporting limit or limit of detection (if listed).
NR	Not Reported
dry	Sample results reported on a dry weight basis. If the word 'dry' does not appear after the units, results are reported on an as-is basis.
RPD	Relative Percent Difference

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CHAIN OF CUSTODY

No. 10837 Page: 1 of: 4

Lab Work Order #: A191520

Report To: Andy Stehn
Company: TRC Env.
Address 1:
Address 2:
E-mail Address:

Project Number: 323372.0000.0000 PO Number: 132937
Project Name: Madison Kipp Corp 00002
Project Location (City, State): Madison, WI

Preservation Codes
Analyses Requested

Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Wesley Bragg

Invoice To:
Company:
Address 1:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	VOCs (B)	Comments	Lab ID	Lab Receipt Time
MW-2D	4/12/19	1428	W		X	MS/MSD	01	
MW-3D	4/9/19	1553	W		X		02	
MW-3D2	4/9/19	1641	W		X		03	
MW-4D2	4/11/19	1252	W		X		04	
MW-5D	4/8/19	1536	W		X		05	
MW-5D2	4/10/19	1617	W		X		06	
MW-5D3	4/10/19	1426	W		X		07	
MW-6D	4/11/19	1640	W		X		08	
MW-9D2	4/9/19	1123	W		X		09	
MW-17	4/11/19	1622	W		X		10	

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

Relinquished By: Wesley Bragg	Date: 4/12/19	Time: 1555	Received By: [illegible]	Date: 04-16-19	Time: 1600
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Custody Seal: ☒ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk-In
Receipt Temp: on ice
Thermometer #/ Exp. Date:
Temp Blank: ☐ Y ☐ N

Rev. 12/15

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2525 Advance Road
Madison, WI 53718
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608-221-4889 (fax)

CHAIN OF CUSTODY

No. 10838 Page: 2 of: 4

Lab Work Order #: A191520

Project Number: 323372.0000.0000 PO Number: 132937
Project Name: Madison Kipp Corp 00002
Project Location (City, State): Madison, WI

Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Wesley Braga

Report To: Andy Stehn
Company: TRC, Env.
Address 1:
Address 2:
E-mail Address:

Invoice To:
Company:
Address 1:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	Preservation Codes / Analyses Requested: B	VOCs	Comments	Lab ID	Lab Receipt Time
MW-25D2	4/10/19	1044	W		X	X	MS/MSD	11	
MW-27D	4/10/19	1254	W		X	X		12	
MP-14 (135-140)	4/8/19	1350	W		X	X		13	
MP-16 (140-144)	4/8/19	1130	W		X	X		14	
DUP-01	4/9/19	–	W		X	X		15	
DUP-03	4/11/19	–	W		X	X		16	
FB-01	4/12/19	1430	W		X	X		17	
Trip Blank	–	–	W		X	X		18	

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

Relinquished By: Wesley Braga Date: 4/12/19 Time: 1555
Relinquished By: Date: Time:

Received By: Date: 04-12-19 Time: 1600
Received By: Date: Time:

Custody Seal: ☒ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk-In
Receipt Temp: On ice
Thermometer #/ Exp. Date:
Temp Blank: ☐ Y ☐ N

Rev. 12/15

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Madison, WI 53718
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608-221-4889 (fax)

CHAIN OF CUSTODY

No. 10840 Page: 3 of: 4

Lab Work Order #: A191520

Report To: Andy Stehn
Company: TRC
Address 1:
Address 2:
E-mail Address:

Project Number: 323372.0000.0000 00002 PO Number: 132937
Project Name: Madison Kipp corp
Project Location (City, State): Madison, WI

Preservation Codes
Analyses Requested

Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Wesley Bragg

Invoice To:
Company:
Address 1:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	PCBs	TDS	TSS				Comments	Lab ID	Lab Receipt Time
MW-3D	4/9/19	1553	W		X	X	X					19	
MW-4S	4/11/19	1257	W		X	X	X				one 500mL glass has collection date of 4-10-19 jf	20	
MW-4D	4/11/19	1431	W		X	X	y					21	
MW-5S	4/10/19	1522	W		X	X	X				MS/MSD	22	
MW-6S	4/12/19	1338	W		X	X	X					23	
MW-11S	4/9/19	1235	W		X	X	X					24	
MW-24	4/9/19	1412	W		X	X	X					25	
MW-28	4/12/19	1230	W		X	X	X					26	
MW-29S	4/12/19	1049	W		X	X	X				#Extra Volume TSS/TDS	27	
MW-29D	4/12/19	1054	W		X	X	X					28	

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

Relinquished By: Wesley Bragg Date: 4/12/19 Time: 1555
Received By: Jessica Cole Date: 04-12-19 Time: 1600

Relinquished By: Date: Time:
Received By: Date: Time:

Custody Seal: ☒ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk In
Receipt Temp: on ice
Thermometer #/ Exp. Date:
Temp Blank: ☐ Y ☐ N

Rev. 12/15

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2525 Advance Road
Madison, WI 53718
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608-221-4889 (fax)

CHAIN OF CUSTODY

No. 10839 Page: 4 of: 4

Lab Work Order #: A191520

Report To: Andy Stehn
Company: TRC
Address 1:
Address 2:
E-mail Address:

Project Number: 323392.0000.0000 PO Number: 132937
Project Name: Madison Kipp Corp 00002
Project Location (City, State): Madison, WI

Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Wesley Braga

Invoice To:
Company:
Address 1:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	Preservation Codes	Analyses Requested: PCBs	TSS	TDS				Comments	Lab ID	Lab Receipt Time
						A	A	A						
DUP-01	4/9/19	—	W	3		X	X	X					29	
DUP-02	4/11/19	—	W	3		X	X	X					30	
FB-01	4/12/19	1430	W	3		X	X	X					31	

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

Relinquished By: Wesley Braga Date: 4/12/19 Time: 1555 Received By: [signature] Date: 04-12-19 Time: 1600

Relinquished By: Date: Time: Received By: Date: Time:

Custody Seal: ☒ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk In
Receipt Temp: Onice
Thermometer #/ Exp. Date:
Temp Blank: ☐ Y ☐ N

Rev. 12/15

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

April 22, 2019

Jessica Esser
Pace Analytical Madison
2525 Advance Road
Madison, WI 53718

RE: Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40185823

Dear Jessica Esser:
Enclosed are the analytical results for sample(s) received by the laboratory on April 13, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40185823

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

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SAMPLE SUMMARY

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40185823

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40185823001	**MW-2D**	Water	04/12/19 14:28	04/13/19 08:05
40185823002	**MW-3D**	Water	04/09/19 15:53	04/13/19 08:05
40185823003	**MW-3D2**	Water	04/09/19 16:41	04/13/19 08:05
40185823004	**MW-4D2**	Water	04/11/19 12:52	04/13/19 08:05
40185823005	**MW-5D**	Water	04/08/19 15:36	04/13/19 08:05
40185823006	**MW-5D2**	Water	04/10/19 16:17	04/13/19 08:05
40185823007	**MW-5D3**	Water	04/10/19 14:26	04/13/19 08:05
40185823008	**MW-6D**	Water	04/11/19 16:40	04/13/19 08:05
40185823009	**MW-9D2**	Water	04/09/19 11:23	04/13/19 08:05
40185823010	**MW-17**	Water	04/11/19 16:22	04/13/19 08:05
40185823011	**MW-25D2**	Water	04/10/19 10:44	04/13/19 08:05
40185823012	**MW-27D**	Water	04/10/19 12:54	04/13/19 08:05
40185823013	**MP-14 (135-140)**	Water	04/08/19 13:50	04/13/19 08:05
40185823014	**MP-16 (140-144)**	Water	04/08/19 11:30	04/13/19 08:05
40185823015	**DUP-01**	Water	04/09/19 00:00	04/13/19 08:05
40185823016	**DUP-03**	Water	04/11/19 00:00	04/13/19 08:05
40185823017	**FB-01**	Water	04/12/19 14:30	04/13/19 08:05
40185823018	**TRIP BLANK**	Water	04/08/19 00:00	04/13/19 08:05

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SAMPLE ANALYTE COUNT

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40185823

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40185823001	**MW-2D**	EPA 8260	LAP	73
40185823002	**MW-3D**	EPA 8260	LAP	73
40185823003	**MW-3D2**	EPA 8260	LAP	73
40185823004	**MW-4D2**	EPA 8260	LAP	73
40185823005	**MW-5D**	EPA 8260	LAP	73
40185823006	**MW-5D2**	EPA 8260	LAP	73
40185823007	**MW-5D3**	EPA 8260	LAP	73
40185823008	**MW-6D**	EPA 8260	LAP	73
40185823009	**MW-9D2**	EPA 8260	LAP	73
40185823010	**MW-17**	EPA 8260	LAP	73
40185823011	**MW-25D2**	EPA 8260	LAP	73
40185823012	**MW-27D**	EPA 8260	LAP	73
40185823013	**MP-14 (135-140)**	EPA 8260	LAP	73
40185823014	**MP-16 (140-144)**	EPA 8260	LAP	73
40185823015	**DUP-01**	EPA 8260	LAP	73
40185823016	**DUP-03**	EPA 8260	LAP	73
40185823017	**FB-01**	EPA 8260	LAP	73
40185823018	**TRIP BLANK**	EPA 8260	LAP	73

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ANALYTICAL RESULTS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40185823

Sample: MW-2D **Lab ID: 40185823001** Collected: 04/12/19 14:28 Received: 04/13/19 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		04/17/19 09:12	630-20-6	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/17/19 09:12	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/17/19 09:12	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/17/19 09:12	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<0.54**	ug/L	5.0	0.54	1		04/17/19 09:12	76-13-1	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		04/17/19 09:12	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		04/17/19 09:12	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		04/17/19 09:12	563-58-6	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		04/17/19 09:12	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		04/17/19 09:12	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		04/17/19 09:12	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/17/19 09:12	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		04/17/19 09:12	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		04/17/19 09:12	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/17/19 09:12	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		04/17/19 09:12	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		04/17/19 09:12	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/17/19 09:12	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		04/17/19 09:12	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		04/17/19 09:12	142-28-9	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		04/17/19 09:12	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		04/17/19 09:12	594-20-7	
2-Butanone (MEK)	**<2.9**	ug/L	20.0	2.9	1		04/17/19 09:12	78-93-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		04/17/19 09:12	95-49-8	
2-Hexanone	**<2.5**	ug/L	8.2	2.5	1		04/17/19 09:12	591-78-6	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		04/17/19 09:12	106-43-4	
4-Methyl-2-pentanone (MIBK)	**<1.5**	ug/L	5.1	1.5	1		04/17/19 09:12	108-10-1	
Acetone	**<2.7**	ug/L	20.0	2.7	1		04/17/19 09:12	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		04/17/19 09:12	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		04/17/19 09:12	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		04/17/19 09:12	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		04/17/19 09:12	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		04/17/19 09:12	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		04/17/19 09:12	74-83-9	
Carbon disulfide	**<0.37**	ug/L	5.0	0.37	1		04/17/19 09:12	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		04/17/19 09:12	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/17/19 09:12	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		04/17/19 09:12	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/17/19 09:12	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		04/17/19 09:12	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		04/17/19 09:12	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		04/17/19 09:12	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		04/17/19 09:12	75-71-8	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		04/17/19 09:12	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		04/17/19 09:12	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		04/17/19 09:12	87-68-3	

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(920)469-2436

ANALYTICAL RESULTS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40185823

Sample: MW-2D **Lab ID: 40185823001** Collected: 04/12/19 14:28 Received: 04/13/19 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		04/17/19 09:12	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		04/17/19 09:12	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		04/17/19 09:12	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		04/17/19 09:12	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		04/17/19 09:12	100-42-5	
Tetrachloroethene	**17.1**	ug/L	1.1	0.33	1		04/17/19 09:12	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		04/17/19 09:12	109-99-9	
Toluene	**<0.17**	ug/L	5.0	0.17	1		04/17/19 09:12	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/17/19 09:12	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/17/19 09:12	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/17/19 09:12	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/17/19 09:12	1330-20-7	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		04/17/19 09:12	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		04/17/19 09:12	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		04/17/19 09:12	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		04/17/19 09:12	104-51-8	
n-Hexane	**<1.7**	ug/L	5.7	1.7	1		04/17/19 09:12	110-54-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		04/17/19 09:12	103-65-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		04/17/19 09:12	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		04/17/19 09:12	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		04/17/19 09:12	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		04/17/19 09:12	98-06-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		04/17/19 09:12	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		04/17/19 09:12	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	84	%	70-130		1		04/17/19 09:12	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		04/17/19 09:12	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		04/17/19 09:12	2037-26-5	

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ANALYTICAL RESULTS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40185823

Sample: MW-3D **Lab ID: 40185823002** Collected: 04/09/19 15:53 Received: 04/13/19 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.54**	ug/L	2.0	0.54	2		04/16/19 12:22	630-20-6	
1,1,1-Trichloroethane	**<0.49**	ug/L	2.0	0.49	2		04/16/19 12:22	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.55**	ug/L	2.0	0.55	2		04/16/19 12:22	79-34-5	
1,1,2-Trichloroethane	**<1.1**	ug/L	10.0	1.1	2		04/16/19 12:22	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.1**	ug/L	10.0	1.1	2		04/16/19 12:22	76-13-1	
1,1-Dichloroethane	**<0.55**	ug/L	2.0	0.55	2		04/16/19 12:22	75-34-3	
1,1-Dichloroethene	**<0.49**	ug/L	2.0	0.49	2		04/16/19 12:22	75-35-4	
1,1-Dichloropropene	**<1.1**	ug/L	3.6	1.1	2		04/16/19 12:22	563-58-6	
1,2,3-Trichlorobenzene	**<1.3**	ug/L	10.0	1.3	2		04/16/19 12:22	87-61-6	
1,2,3-Trichloropropane	**<1.2**	ug/L	10.0	1.2	2		04/16/19 12:22	96-18-4	
1,2,4-Trichlorobenzene	**<1.9**	ug/L	10.0	1.9	2		04/16/19 12:22	120-82-1	
1,2,4-Trimethylbenzene	**<1.7**	ug/L	5.6	1.7	2		04/16/19 12:22	95-63-6	
1,2-Dibromo-3-chloropropane	**<3.5**	ug/L	11.8	3.5	2		04/16/19 12:22	96-12-8	
1,2-Dibromoethane (EDB)	**<1.7**	ug/L	5.5	1.7	2		04/16/19 12:22	106-93-4	
1,2-Dichlorobenzene	**<1.4**	ug/L	4.7	1.4	2		04/16/19 12:22	95-50-1	
1,2-Dichloroethane	**<0.56**	ug/L	2.0	0.56	2		04/16/19 12:22	107-06-2	
1,2-Dichloropropane	**<0.57**	ug/L	2.0	0.57	2		04/16/19 12:22	78-87-5	
1,3,5-Trimethylbenzene	**<1.7**	ug/L	5.8	1.7	2		04/16/19 12:22	108-67-8	
1,3-Dichlorobenzene	**<1.3**	ug/L	4.2	1.3	2		04/16/19 12:22	541-73-1	
1,3-Dichloropropane	**<1.7**	ug/L	5.5	1.7	2		04/16/19 12:22	142-28-9	
1,4-Dichlorobenzene	**<1.9**	ug/L	6.3	1.9	2		04/16/19 12:22	106-46-7	
2,2-Dichloropropane	**<4.5**	ug/L	15.1	4.5	2		04/16/19 12:22	594-20-7	
2-Butanone (MEK)	**<5.9**	ug/L	40.0	5.9	2		04/16/19 12:22	78-93-3	
2-Chlorotoluene	**<1.9**	ug/L	10.0	1.9	2		04/16/19 12:22	95-49-8	
2-Hexanone	**<4.9**	ug/L	16.4	4.9	2		04/16/19 12:22	591-78-6	
4-Chlorotoluene	**<1.5**	ug/L	5.0	1.5	2		04/16/19 12:22	106-43-4	
4-Methyl-2-pentanone (MIBK)	**<3.1**	ug/L	10.2	3.1	2		04/16/19 12:22	108-10-1	
Acetone	**<5.5**	ug/L	40.0	5.5	2		04/16/19 12:22	67-64-1	
Benzene	**<0.49**	ug/L	2.0	0.49	2		04/16/19 12:22	71-43-2	
Bromobenzene	**<0.48**	ug/L	2.0	0.48	2		04/16/19 12:22	108-86-1	
Bromochloromethane	**<0.72**	ug/L	10.0	0.72	2		04/16/19 12:22	74-97-5	
Bromodichloromethane	**<0.73**	ug/L	2.4	0.73	2		04/16/19 12:22	75-27-4	
Bromoform	**<7.9**	ug/L	26.5	7.9	2		04/16/19 12:22	75-25-2	
Bromomethane	**<1.9**	ug/L	10.0	1.9	2		04/16/19 12:22	74-83-9	
Carbon disulfide	**<0.75**	ug/L	10.0	0.75	2		04/16/19 12:22	75-15-0	
Carbon tetrachloride	**<0.33**	ug/L	2.0	0.33	2		04/16/19 12:22	56-23-5	
Chlorobenzene	**<1.4**	ug/L	4.7	1.4	2		04/16/19 12:22	108-90-7	
Chloroethane	**<2.7**	ug/L	10.0	2.7	2		04/16/19 12:22	75-00-3	
Chloroform	**<2.5**	ug/L	10.0	2.5	2		04/16/19 12:22	67-66-3	
Chloromethane	**<4.4**	ug/L	14.6	4.4	2		04/16/19 12:22	74-87-3	
Dibromochloromethane	**<5.2**	ug/L	17.3	5.2	2		04/16/19 12:22	124-48-1	
Dibromomethane	**<1.9**	ug/L	6.2	1.9	2		04/16/19 12:22	74-95-3	
Dichlorodifluoromethane	**<1.0**	ug/L	10.0	1.0	2		04/16/19 12:22	75-71-8	
Diisopropyl ether	**<3.8**	ug/L	12.6	3.8	2		04/16/19 12:22	108-20-3	
Ethylbenzene	**<0.44**	ug/L	2.0	0.44	2		04/16/19 12:22	100-41-4	
Hexachloro-1,3-butadiene	**<2.4**	ug/L	10.0	2.4	2		04/16/19 12:22	87-68-3	

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ANALYTICAL RESULTS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40185823

Sample: MW-3D **Lab ID: 40185823002** Collected: 04/09/19 15:53 Received: 04/13/19 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	**<0.79**	ug/L	10.0	0.79	2		04/16/19 12:22	98-82-8	
Methyl-tert-butyl ether	**<2.5**	ug/L	8.3	2.5	2		04/16/19 12:22	1634-04-4	
Methylene Chloride	**<1.2**	ug/L	10.0	1.2	2		04/16/19 12:22	75-09-2	
Naphthalene	**<2.4**	ug/L	10.0	2.4	2		04/16/19 12:22	91-20-3	
Styrene	**<0.93**	ug/L	3.1	0.93	2		04/16/19 12:22	100-42-5	
Tetrachloroethene	**333**	ug/L	2.2	0.65	2		04/16/19 12:22	127-18-4	
Tetrahydrofuran	**<4.6**	ug/L	40.0	4.6	2		04/16/19 12:22	109-99-9	
Toluene	**<0.34**	ug/L	10.0	0.34	2		04/16/19 12:22	108-88-3	
Trichloroethene	**41.2**	ug/L	2.0	0.51	2		04/16/19 12:22	79-01-6	
Trichlorofluoromethane	**<0.43**	ug/L	2.0	0.43	2		04/16/19 12:22	75-69-4	
Vinyl chloride	**<0.35**	ug/L	2.0	0.35	2		04/16/19 12:22	75-01-4	
Xylene (Total)	**<3.0**	ug/L	6.0	3.0	2		04/16/19 12:22	1330-20-7	
cis-1,2-Dichloroethene	**52.9**	ug/L	2.0	0.54	2		04/16/19 12:22	156-59-2	
cis-1,3-Dichloropropene	**<7.3**	ug/L	24.2	7.3	2		04/16/19 12:22	10061-01-5	
m&p-Xylene	**<0.93**	ug/L	4.0	0.93	2		04/16/19 12:22	179601-23-1	
n-Butylbenzene	**<1.4**	ug/L	4.7	1.4	2		04/16/19 12:22	104-51-8	
n-Hexane	**<3.4**	ug/L	11.4	3.4	2		04/16/19 12:22	110-54-3	
n-Propylbenzene	**<1.6**	ug/L	10.0	1.6	2		04/16/19 12:22	103-65-1	
o-Xylene	**<0.52**	ug/L	2.0	0.52	2		04/16/19 12:22	95-47-6	
p-Isopropyltoluene	**<1.6**	ug/L	5.3	1.6	2		04/16/19 12:22	99-87-6	
sec-Butylbenzene	**<1.7**	ug/L	10.0	1.7	2		04/16/19 12:22	135-98-8	
tert-Butylbenzene	**<0.61**	ug/L	2.0	0.61	2		04/16/19 12:22	98-06-6	
trans-1,2-Dichloroethene	**<2.2**	ug/L	7.3	2.2	2		04/16/19 12:22	156-60-5	
trans-1,3-Dichloropropene	**<8.7**	ug/L	29.1	8.7	2		04/16/19 12:22	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		2		04/16/19 12:22	460-00-4	
Dibromofluoromethane (S)	110	%	70-130		2		04/16/19 12:22	1868-53-7	
Toluene-d8 (S)	97	%	70-130		2		04/16/19 12:22	2037-26-5	

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ANALYTICAL RESULTS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40185823

Sample: MW-3D2 **Lab ID: 40185823003** Collected: 04/09/19 16:41 Received: 04/13/19 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.54**	ug/L	2.0	0.54	2		04/16/19 12:44	630-20-6	
1,1,1-Trichloroethane	**<0.49**	ug/L	2.0	0.49	2		04/16/19 12:44	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.55**	ug/L	2.0	0.55	2		04/16/19 12:44	79-34-5	
1,1,2-Trichloroethane	**<1.1**	ug/L	10.0	1.1	2		04/16/19 12:44	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.1**	ug/L	10.0	1.1	2		04/16/19 12:44	76-13-1	
1,1-Dichloroethane	**<0.55**	ug/L	2.0	0.55	2		04/16/19 12:44	75-34-3	
1,1-Dichloroethene	**<0.49**	ug/L	2.0	0.49	2		04/16/19 12:44	75-35-4	
1,1-Dichloropropene	**<1.1**	ug/L	3.6	1.1	2		04/16/19 12:44	563-58-6	
1,2,3-Trichlorobenzene	**<1.3**	ug/L	10.0	1.3	2		04/16/19 12:44	87-61-6	
1,2,3-Trichloropropane	**<1.2**	ug/L	10.0	1.2	2		04/16/19 12:44	96-18-4	
1,2,4-Trichlorobenzene	**<1.9**	ug/L	10.0	1.9	2		04/16/19 12:44	120-82-1	
1,2,4-Trimethylbenzene	**<1.7**	ug/L	5.6	1.7	2		04/16/19 12:44	95-63-6	
1,2-Dibromo-3-chloropropane	**<3.5**	ug/L	11.8	3.5	2		04/16/19 12:44	96-12-8	
1,2-Dibromoethane (EDB)	**<1.7**	ug/L	5.5	1.7	2		04/16/19 12:44	106-93-4	
1,2-Dichlorobenzene	**<1.4**	ug/L	4.7	1.4	2		04/16/19 12:44	95-50-1	
1,2-Dichloroethane	**<0.56**	ug/L	2.0	0.56	2		04/16/19 12:44	107-06-2	
1,2-Dichloropropane	**<0.57**	ug/L	2.0	0.57	2		04/16/19 12:44	78-87-5	
1,3,5-Trimethylbenzene	**<1.7**	ug/L	5.8	1.7	2		04/16/19 12:44	108-67-8	
1,3-Dichlorobenzene	**<1.3**	ug/L	4.2	1.3	2		04/16/19 12:44	541-73-1	
1,3-Dichloropropane	**<1.7**	ug/L	5.5	1.7	2		04/16/19 12:44	142-28-9	
1,4-Dichlorobenzene	**<1.9**	ug/L	6.3	1.9	2		04/16/19 12:44	106-46-7	
2,2-Dichloropropane	**<4.5**	ug/L	15.1	4.5	2		04/16/19 12:44	594-20-7	
2-Butanone (MEK)	**<5.9**	ug/L	40.0	5.9	2		04/16/19 12:44	78-93-3	
2-Chlorotoluene	**<1.9**	ug/L	10.0	1.9	2		04/16/19 12:44	95-49-8	
2-Hexanone	**<4.9**	ug/L	16.4	4.9	2		04/16/19 12:44	591-78-6	
4-Chlorotoluene	**<1.5**	ug/L	5.0	1.5	2		04/16/19 12:44	106-43-4	
4-Methyl-2-pentanone (MIBK)	**<3.1**	ug/L	10.2	3.1	2		04/16/19 12:44	108-10-1	
Acetone	**<5.5**	ug/L	40.0	5.5	2		04/16/19 12:44	67-64-1	
Benzene	**<0.49**	ug/L	2.0	0.49	2		04/16/19 12:44	71-43-2	
Bromobenzene	**<0.48**	ug/L	2.0	0.48	2		04/16/19 12:44	108-86-1	
Bromochloromethane	**<0.72**	ug/L	10.0	0.72	2		04/16/19 12:44	74-97-5	
Bromodichloromethane	**<0.73**	ug/L	2.4	0.73	2		04/16/19 12:44	75-27-4	
Bromoform	**<7.9**	ug/L	26.5	7.9	2		04/16/19 12:44	75-25-2	
Bromomethane	**<1.9**	ug/L	10.0	1.9	2		04/16/19 12:44	74-83-9	
Carbon disulfide	**<0.75**	ug/L	10.0	0.75	2		04/16/19 12:44	75-15-0	
Carbon tetrachloride	**<0.33**	ug/L	2.0	0.33	2		04/16/19 12:44	56-23-5	
Chlorobenzene	**<1.4**	ug/L	4.7	1.4	2		04/16/19 12:44	108-90-7	
Chloroethane	**<2.7**	ug/L	10.0	2.7	2		04/16/19 12:44	75-00-3	
Chloroform	**<2.5**	ug/L	10.0	2.5	2		04/16/19 12:44	67-66-3	
Chloromethane	**<4.4**	ug/L	14.6	4.4	2		04/16/19 12:44	74-87-3	
Dibromochloromethane	**<5.2**	ug/L	17.3	5.2	2		04/16/19 12:44	124-48-1	
Dibromomethane	**<1.9**	ug/L	6.2	1.9	2		04/16/19 12:44	74-95-3	
Dichlorodifluoromethane	**1.0J**	ug/L	10.0	1.0	2		04/16/19 12:44	75-71-8	
Diisopropyl ether	**<3.8**	ug/L	12.6	3.8	2		04/16/19 12:44	108-20-3	
Ethylbenzene	**<0.44**	ug/L	2.0	0.44	2		04/16/19 12:44	100-41-4	
Hexachloro-1,3-butadiene	**<2.4**	ug/L	10.0	2.4	2		04/16/19 12:44	87-68-3	

REPORT OF LABORATORY ANALYSIS

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(920)469-2436

ANALYTICAL RESULTS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40185823

Sample: MW-3D2 **Lab ID: 40185823003** Collected: 04/09/19 16:41 Received: 04/13/19 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	**<0.79**	ug/L	10.0	0.79	2		04/16/19 12:44	98-82-8	
Methyl-tert-butyl ether	**<2.5**	ug/L	8.3	2.5	2		04/16/19 12:44	1634-04-4	
Methylene Chloride	**<1.2**	ug/L	10.0	1.2	2		04/16/19 12:44	75-09-2	
Naphthalene	**<2.4**	ug/L	10.0	2.4	2		04/16/19 12:44	91-20-3	
Styrene	**<0.93**	ug/L	3.1	0.93	2		04/16/19 12:44	100-42-5	
Tetrachloroethene	**300**	ug/L	2.2	0.65	2		04/16/19 12:44	127-18-4	
Tetrahydrofuran	**<4.6**	ug/L	40.0	4.6	2		04/16/19 12:44	109-99-9	
Toluene	**<0.34**	ug/L	10.0	0.34	2		04/16/19 12:44	108-88-3	
Trichloroethene	**19.8**	ug/L	2.0	0.51	2		04/16/19 12:44	79-01-6	
Trichlorofluoromethane	**<0.43**	ug/L	2.0	0.43	2		04/16/19 12:44	75-69-4	
Vinyl chloride	**<0.35**	ug/L	2.0	0.35	2		04/16/19 12:44	75-01-4	
Xylene (Total)	**<3.0**	ug/L	6.0	3.0	2		04/16/19 12:44	1330-20-7	
cis-1,2-Dichloroethene	**22.6**	ug/L	2.0	0.54	2		04/16/19 12:44	156-59-2	
cis-1,3-Dichloropropene	**<7.3**	ug/L	24.2	7.3	2		04/16/19 12:44	10061-01-5	
m&p-Xylene	**<0.93**	ug/L	4.0	0.93	2		04/16/19 12:44	179601-23-1	
n-Butylbenzene	**<1.4**	ug/L	4.7	1.4	2		04/16/19 12:44	104-51-8	
n-Hexane	**<3.4**	ug/L	11.4	3.4	2		04/16/19 12:44	110-54-3	
n-Propylbenzene	**<1.6**	ug/L	10.0	1.6	2		04/16/19 12:44	103-65-1	
o-Xylene	**<0.52**	ug/L	2.0	0.52	2		04/16/19 12:44	95-47-6	
p-Isopropyltoluene	**<1.6**	ug/L	5.3	1.6	2		04/16/19 12:44	99-87-6	
sec-Butylbenzene	**<1.7**	ug/L	10.0	1.7	2		04/16/19 12:44	135-98-8	
tert-Butylbenzene	**<0.61**	ug/L	2.0	0.61	2		04/16/19 12:44	98-06-6	
trans-1,2-Dichloroethene	**<2.2**	ug/L	7.3	2.2	2		04/16/19 12:44	156-60-5	
trans-1,3-Dichloropropene	**<8.7**	ug/L	29.1	8.7	2		04/16/19 12:44	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		2		04/16/19 12:44	460-00-4	
Dibromofluoromethane (S)	110	%	70-130		2		04/16/19 12:44	1868-53-7	
Toluene-d8 (S)	97	%	70-130		2		04/16/19 12:44	2037-26-5	

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ANALYTICAL RESULTS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40185823

Sample: MW-4D2 **Lab ID: 40185823004** Collected: 04/11/19 12:52 Received: 04/13/19 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		04/17/19 10:52	630-20-6	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/17/19 10:52	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/17/19 10:52	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/17/19 10:52	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<0.54**	ug/L	5.0	0.54	1		04/17/19 10:52	76-13-1	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		04/17/19 10:52	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		04/17/19 10:52	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		04/17/19 10:52	563-58-6	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		04/17/19 10:52	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		04/17/19 10:52	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		04/17/19 10:52	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/17/19 10:52	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		04/17/19 10:52	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		04/17/19 10:52	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/17/19 10:52	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		04/17/19 10:52	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		04/17/19 10:52	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/17/19 10:52	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		04/17/19 10:52	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		04/17/19 10:52	142-28-9	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		04/17/19 10:52	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		04/17/19 10:52	594-20-7	
2-Butanone (MEK)	**<2.9**	ug/L	20.0	2.9	1		04/17/19 10:52	78-93-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		04/17/19 10:52	95-49-8	
2-Hexanone	**<2.5**	ug/L	8.2	2.5	1		04/17/19 10:52	591-78-6	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		04/17/19 10:52	106-43-4	
4-Methyl-2-pentanone (MIBK)	**<1.5**	ug/L	5.1	1.5	1		04/17/19 10:52	108-10-1	
Acetone	**<2.7**	ug/L	20.0	2.7	1		04/17/19 10:52	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		04/17/19 10:52	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		04/17/19 10:52	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		04/17/19 10:52	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		04/17/19 10:52	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		04/17/19 10:52	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		04/17/19 10:52	74-83-9	
Carbon disulfide	**<0.37**	ug/L	5.0	0.37	1		04/17/19 10:52	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		04/17/19 10:52	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/17/19 10:52	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		04/17/19 10:52	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/17/19 10:52	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		04/17/19 10:52	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		04/17/19 10:52	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		04/17/19 10:52	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		04/17/19 10:52	75-71-8	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		04/17/19 10:52	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		04/17/19 10:52	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		04/17/19 10:52	87-68-3	

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ANALYTICAL RESULTS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40185823

Sample: MW-4D2 **Lab ID: 40185823004** Collected: 04/11/19 12:52 Received: 04/13/19 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		04/17/19 10:52	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		04/17/19 10:52	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		04/17/19 10:52	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		04/17/19 10:52	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		04/17/19 10:52	100-42-5	
Tetrachloroethene	**1.1J**	ug/L	1.1	0.33	1		04/17/19 10:52	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		04/17/19 10:52	109-99-9	
Toluene	**<0.17**	ug/L	5.0	0.17	1		04/17/19 10:52	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/17/19 10:52	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/17/19 10:52	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/17/19 10:52	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/17/19 10:52	1330-20-7	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		04/17/19 10:52	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		04/17/19 10:52	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		04/17/19 10:52	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		04/17/19 10:52	104-51-8	
n-Hexane	**<1.7**	ug/L	5.7	1.7	1		04/17/19 10:52	110-54-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		04/17/19 10:52	103-65-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		04/17/19 10:52	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		04/17/19 10:52	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		04/17/19 10:52	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		04/17/19 10:52	98-06-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		04/17/19 10:52	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		04/17/19 10:52	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	85	%	70-130		1		04/17/19 10:52	460-00-4	
Dibromofluoromethane (S)	110	%	70-130		1		04/17/19 10:52	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		04/17/19 10:52	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40185823

Sample: MW-5D **Lab ID: 40185823005** Collected: 04/08/19 15:36 Received: 04/13/19 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<5.4**	ug/L	20.0	5.4	20		04/17/19 13:54	630-20-6	
1,1,1-Trichloroethane	**<4.9**	ug/L	20.0	4.9	20		04/17/19 13:54	71-55-6	
1,1,2,2-Tetrachloroethane	**<5.5**	ug/L	20.0	5.5	20		04/17/19 13:54	79-34-5	
1,1,2-Trichloroethane	**<11.0**	ug/L	100	11.0	20		04/17/19 13:54	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<10.7**	ug/L	100	10.7	20		04/17/19 13:54	76-13-1	
1,1-Dichloroethane	**<5.5**	ug/L	20.0	5.5	20		04/17/19 13:54	75-34-3	
1,1-Dichloroethene	**<4.9**	ug/L	20.0	4.9	20		04/17/19 13:54	75-35-4	
1,1-Dichloropropene	**<10.8**	ug/L	36.0	10.8	20		04/17/19 13:54	563-58-6	
1,2,3-Trichlorobenzene	**<12.5**	ug/L	100	12.5	20		04/17/19 13:54	87-61-6	
1,2,3-Trichloropropane	**<11.8**	ug/L	100	11.8	20		04/17/19 13:54	96-18-4	
1,2,4-Trichlorobenzene	**<19.0**	ug/L	100	19.0	20		04/17/19 13:54	120-82-1	
1,2,4-Trimethylbenzene	**<16.8**	ug/L	56.0	16.8	20		04/17/19 13:54	95-63-6	
1,2-Dibromo-3-chloropropane	**<35.3**	ug/L	118	35.3	20		04/17/19 13:54	96-12-8	
1,2-Dibromoethane (EDB)	**<16.6**	ug/L	55.3	16.6	20		04/17/19 13:54	106-93-4	
1,2-Dichlorobenzene	**<14.1**	ug/L	47.0	14.1	20		04/17/19 13:54	95-50-1	
1,2-Dichloroethane	**<5.6**	ug/L	20.0	5.6	20		04/17/19 13:54	107-06-2	
1,2-Dichloropropane	**<5.7**	ug/L	20.0	5.7	20		04/17/19 13:54	78-87-5	
1,3,5-Trimethylbenzene	**<17.5**	ug/L	58.2	17.5	20		04/17/19 13:54	108-67-8	
1,3-Dichlorobenzene	**<12.6**	ug/L	41.9	12.6	20		04/17/19 13:54	541-73-1	
1,3-Dichloropropane	**<16.5**	ug/L	55.1	16.5	20		04/17/19 13:54	142-28-9	
1,4-Dichlorobenzene	**<18.9**	ug/L	62.9	18.9	20		04/17/19 13:54	106-46-7	
2,2-Dichloropropane	**<45.3**	ug/L	151	45.3	20		04/17/19 13:54	594-20-7	
2-Butanone (MEK)	**<58.7**	ug/L	400	58.7	20		04/17/19 13:54	78-93-3	
2-Chlorotoluene	**<18.5**	ug/L	100	18.5	20		04/17/19 13:54	95-49-8	
2-Hexanone	**<49.1**	ug/L	164	49.1	20		04/17/19 13:54	591-78-6	
4-Chlorotoluene	**<15.1**	ug/L	50.4	15.1	20		04/17/19 13:54	106-43-4	
4-Methyl-2-pentanone (MIBK)	**<30.6**	ug/L	102	30.6	20		04/17/19 13:54	108-10-1	
Acetone	**<54.8**	ug/L	400	54.8	20		04/17/19 13:54	67-64-1	
Benzene	**<4.9**	ug/L	20.0	4.9	20		04/17/19 13:54	71-43-2	
Bromobenzene	**<4.8**	ug/L	20.0	4.8	20		04/17/19 13:54	108-86-1	
Bromochloromethane	**<7.2**	ug/L	100	7.2	20		04/17/19 13:54	74-97-5	
Bromodichloromethane	**<7.3**	ug/L	24.2	7.3	20		04/17/19 13:54	75-27-4	
Bromoform	**<79.4**	ug/L	265	79.4	20		04/17/19 13:54	75-25-2	
Bromomethane	**<19.4**	ug/L	100	19.4	20		04/17/19 13:54	74-83-9	
Carbon disulfide	**<7.5**	ug/L	100	7.5	20		04/17/19 13:54	75-15-0	
Carbon tetrachloride	**<3.3**	ug/L	20.0	3.3	20		04/17/19 13:54	56-23-5	
Chlorobenzene	**<14.2**	ug/L	47.4	14.2	20		04/17/19 13:54	108-90-7	
Chloroethane	**<26.8**	ug/L	100	26.8	20		04/17/19 13:54	75-00-3	
Chloroform	**<25.5**	ug/L	100	25.5	20		04/17/19 13:54	67-66-3	
Chloromethane	**<43.8**	ug/L	146	43.8	20		04/17/19 13:54	74-87-3	
Dibromochloromethane	**<52.0**	ug/L	173	52.0	20		04/17/19 13:54	124-48-1	
Dibromomethane	**<18.7**	ug/L	62.5	18.7	20		04/17/19 13:54	74-95-3	
Dichlorodifluoromethane	**<10**	ug/L	100	10	20		04/17/19 13:54	75-71-8	
Diisopropyl ether	**<37.8**	ug/L	126	37.8	20		04/17/19 13:54	108-20-3	
Ethylbenzene	**<4.4**	ug/L	20.0	4.4	20		04/17/19 13:54	100-41-4	
Hexachloro-1,3-butadiene	**<23.6**	ug/L	100	23.6	20		04/17/19 13:54	87-68-3	

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ANALYTICAL RESULTS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40185823

Sample: MW-5D **Lab ID: 40185823005** Collected: 04/08/19 15:36 Received: 04/13/19 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	**<7.9**	ug/L	100	7.9	20		04/17/19 13:54	98-82-8	
Methyl-tert-butyl ether	**<24.9**	ug/L	83.1	24.9	20		04/17/19 13:54	1634-04-4	
Methylene Chloride	**<11.6**	ug/L	100	11.6	20		04/17/19 13:54	75-09-2	
Naphthalene	**<23.5**	ug/L	100	23.5	20		04/17/19 13:54	91-20-3	
Styrene	**<9.3**	ug/L	31.0	9.3	20		04/17/19 13:54	100-42-5	
Tetrachloroethene	**2170**	ug/L	21.8	6.5	20		04/17/19 13:54	127-18-4	
Tetrahydrofuran	**<46.4**	ug/L	400	46.4	20		04/17/19 13:54	109-99-9	
Toluene	**<3.4**	ug/L	100	3.4	20		04/17/19 13:54	108-88-3	
Trichloroethene	**72.3**	ug/L	20.0	5.1	20		04/17/19 13:54	79-01-6	
Trichlorofluoromethane	**<4.3**	ug/L	20.0	4.3	20		04/17/19 13:54	75-69-4	
Vinyl chloride	**<3.5**	ug/L	20.0	3.5	20		04/17/19 13:54	75-01-4	
Xylene (Total)	**<30.0**	ug/L	60.0	30.0	20		04/17/19 13:54	1330-20-7	
cis-1,2-Dichloroethene	**149**	ug/L	20.0	5.4	20		04/17/19 13:54	156-59-2	
cis-1,3-Dichloropropene	**<72.6**	ug/L	242	72.6	20		04/17/19 13:54	10061-01-5	
m&p-Xylene	**<9.3**	ug/L	40.0	9.3	20		04/17/19 13:54	179601-23-1	
n-Butylbenzene	**<14.2**	ug/L	47.2	14.2	20		04/17/19 13:54	104-51-8	
n-Hexane	**<34.2**	ug/L	114	34.2	20		04/17/19 13:54	110-54-3	
n-Propylbenzene	**<16.2**	ug/L	100	16.2	20		04/17/19 13:54	103-65-1	
o-Xylene	**<5.2**	ug/L	20.0	5.2	20		04/17/19 13:54	95-47-6	
p-Isopropyltoluene	**<16.0**	ug/L	53.3	16.0	20		04/17/19 13:54	99-87-6	
sec-Butylbenzene	**<17.0**	ug/L	100	17.0	20		04/17/19 13:54	135-98-8	
tert-Butylbenzene	**<6.1**	ug/L	20.3	6.1	20		04/17/19 13:54	98-06-6	
trans-1,2-Dichloroethene	**<21.8**	ug/L	72.7	21.8	20		04/17/19 13:54	156-60-5	
trans-1,3-Dichloropropene	**<87.4**	ug/L	291	87.4	20		04/17/19 13:54	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	84	%	70-130		20		04/17/19 13:54	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		20		04/17/19 13:54	1868-53-7	
Toluene-d8 (S)	97	%	70-130		20		04/17/19 13:54	2037-26-5	

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1241 Bellevue Street - Suite 9
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(920)469-2436

ANALYTICAL RESULTS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40185823

Sample: MW-5D2 **Lab ID: 40185823006** Collected: 04/10/19 16:17 Received: 04/13/19 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<5.4**	ug/L	20.0	5.4	20		04/17/19 14:17	630-20-6	
1,1,1-Trichloroethane	**<4.9**	ug/L	20.0	4.9	20		04/17/19 14:17	71-55-6	
1,1,2,2-Tetrachloroethane	**<5.5**	ug/L	20.0	5.5	20		04/17/19 14:17	79-34-5	
1,1,2-Trichloroethane	**<11.0**	ug/L	100	11.0	20		04/17/19 14:17	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<10.7**	ug/L	100	10.7	20		04/17/19 14:17	76-13-1	
1,1-Dichloroethane	**<5.5**	ug/L	20.0	5.5	20		04/17/19 14:17	75-34-3	
1,1-Dichloroethene	**<4.9**	ug/L	20.0	4.9	20		04/17/19 14:17	75-35-4	
1,1-Dichloropropene	**<10.8**	ug/L	36.0	10.8	20		04/17/19 14:17	563-58-6	
1,2,3-Trichlorobenzene	**<12.5**	ug/L	100	12.5	20		04/17/19 14:17	87-61-6	
1,2,3-Trichloropropane	**<11.8**	ug/L	100	11.8	20		04/17/19 14:17	96-18-4	
1,2,4-Trichlorobenzene	**<19.0**	ug/L	100	19.0	20		04/17/19 14:17	120-82-1	
1,2,4-Trimethylbenzene	**<16.8**	ug/L	56.0	16.8	20		04/17/19 14:17	95-63-6	
1,2-Dibromo-3-chloropropane	**<35.3**	ug/L	118	35.3	20		04/17/19 14:17	96-12-8	
1,2-Dibromoethane (EDB)	**<16.6**	ug/L	55.3	16.6	20		04/17/19 14:17	106-93-4	
1,2-Dichlorobenzene	**<14.1**	ug/L	47.0	14.1	20		04/17/19 14:17	95-50-1	
1,2-Dichloroethane	**<5.6**	ug/L	20.0	5.6	20		04/17/19 14:17	107-06-2	
1,2-Dichloropropane	**<5.7**	ug/L	20.0	5.7	20		04/17/19 14:17	78-87-5	
1,3,5-Trimethylbenzene	**<17.5**	ug/L	58.2	17.5	20		04/17/19 14:17	108-67-8	
1,3-Dichlorobenzene	**<12.6**	ug/L	41.9	12.6	20		04/17/19 14:17	541-73-1	
1,3-Dichloropropane	**<16.5**	ug/L	55.1	16.5	20		04/17/19 14:17	142-28-9	
1,4-Dichlorobenzene	**<18.9**	ug/L	62.9	18.9	20		04/17/19 14:17	106-46-7	
2,2-Dichloropropane	**<45.3**	ug/L	151	45.3	20		04/17/19 14:17	594-20-7	
2-Butanone (MEK)	**<58.7**	ug/L	400	58.7	20		04/17/19 14:17	78-93-3	
2-Chlorotoluene	**<18.5**	ug/L	100	18.5	20		04/17/19 14:17	95-49-8	
2-Hexanone	**<49.1**	ug/L	164	49.1	20		04/17/19 14:17	591-78-6	
4-Chlorotoluene	**<15.1**	ug/L	50.4	15.1	20		04/17/19 14:17	106-43-4	
4-Methyl-2-pentanone (MIBK)	**<30.6**	ug/L	102	30.6	20		04/17/19 14:17	108-10-1	
Acetone	**<54.8**	ug/L	400	54.8	20		04/17/19 14:17	67-64-1	
Benzene	**<4.9**	ug/L	20.0	4.9	20		04/17/19 14:17	71-43-2	
Bromobenzene	**<4.8**	ug/L	20.0	4.8	20		04/17/19 14:17	108-86-1	
Bromochloromethane	**<7.2**	ug/L	100	7.2	20		04/17/19 14:17	74-97-5	
Bromodichloromethane	**<7.3**	ug/L	24.2	7.3	20		04/17/19 14:17	75-27-4	
Bromoform	**<79.4**	ug/L	265	79.4	20		04/17/19 14:17	75-25-2	
Bromomethane	**<19.4**	ug/L	100	19.4	20		04/17/19 14:17	74-83-9	
Carbon disulfide	**<7.5**	ug/L	100	7.5	20		04/17/19 14:17	75-15-0	
Carbon tetrachloride	**<3.3**	ug/L	20.0	3.3	20		04/17/19 14:17	56-23-5	
Chlorobenzene	**<14.2**	ug/L	47.4	14.2	20		04/17/19 14:17	108-90-7	
Chloroethane	**<26.8**	ug/L	100	26.8	20		04/17/19 14:17	75-00-3	
Chloroform	**<25.5**	ug/L	100	25.5	20		04/17/19 14:17	67-66-3	
Chloromethane	**<43.8**	ug/L	146	43.8	20		04/17/19 14:17	74-87-3	
Dibromochloromethane	**<52.0**	ug/L	173	52.0	20		04/17/19 14:17	124-48-1	
Dibromomethane	**<18.7**	ug/L	62.5	18.7	20		04/17/19 14:17	74-95-3	
Dichlorodifluoromethane	**<10**	ug/L	100	10	20		04/17/19 14:17	75-71-8	
Diisopropyl ether	**<37.8**	ug/L	126	37.8	20		04/17/19 14:17	108-20-3	
Ethylbenzene	**<4.4**	ug/L	20.0	4.4	20		04/17/19 14:17	100-41-4	
Hexachloro-1,3-butadiene	**<23.6**	ug/L	100	23.6	20		04/17/19 14:17	87-68-3	

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ANALYTICAL RESULTS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40185823

Sample: MW-5D2 **Lab ID: 40185823006** Collected: 04/10/19 16:17 Received: 04/13/19 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	**<7.9**	ug/L	100	7.9	20		04/17/19 14:17	98-82-8	
Methyl-tert-butyl ether	**<24.9**	ug/L	83.1	24.9	20		04/17/19 14:17	1634-04-4	
Methylene Chloride	**<11.6**	ug/L	100	11.6	20		04/17/19 14:17	75-09-2	
Naphthalene	**<23.5**	ug/L	100	23.5	20		04/17/19 14:17	91-20-3	
Styrene	**<9.3**	ug/L	31.0	9.3	20		04/17/19 14:17	100-42-5	
Tetrachloroethene	**2150**	ug/L	21.8	6.5	20		04/17/19 14:17	127-18-4	
Tetrahydrofuran	**<46.4**	ug/L	400	46.4	20		04/17/19 14:17	109-99-9	
Toluene	**<3.4**	ug/L	100	3.4	20		04/17/19 14:17	108-88-3	
Trichloroethene	**26.7**	ug/L	20.0	5.1	20		04/17/19 14:17	79-01-6	
Trichlorofluoromethane	**<4.3**	ug/L	20.0	4.3	20		04/17/19 14:17	75-69-4	
Vinyl chloride	**<3.5**	ug/L	20.0	3.5	20		04/17/19 14:17	75-01-4	
Xylene (Total)	**<30.0**	ug/L	60.0	30.0	20		04/17/19 14:17	1330-20-7	
cis-1,2-Dichloroethene	**15.0J**	ug/L	20.0	5.4	20		04/17/19 14:17	156-59-2	
cis-1,3-Dichloropropene	**<72.6**	ug/L	242	72.6	20		04/17/19 14:17	10061-01-5	
m&p-Xylene	**<9.3**	ug/L	40.0	9.3	20		04/17/19 14:17	179601-23-1	
n-Butylbenzene	**<14.2**	ug/L	47.2	14.2	20		04/17/19 14:17	104-51-8	
n-Hexane	**<34.2**	ug/L	114	34.2	20		04/17/19 14:17	110-54-3	
n-Propylbenzene	**<16.2**	ug/L	100	16.2	20		04/17/19 14:17	103-65-1	
o-Xylene	**<5.2**	ug/L	20.0	5.2	20		04/17/19 14:17	95-47-6	
p-Isopropyltoluene	**<16.0**	ug/L	53.3	16.0	20		04/17/19 14:17	99-87-6	
sec-Butylbenzene	**<17.0**	ug/L	100	17.0	20		04/17/19 14:17	135-98-8	
tert-Butylbenzene	**<6.1**	ug/L	20.3	6.1	20		04/17/19 14:17	98-06-6	
trans-1,2-Dichloroethene	**<21.8**	ug/L	72.7	21.8	20		04/17/19 14:17	156-60-5	
trans-1,3-Dichloropropene	**<87.4**	ug/L	291	87.4	20		04/17/19 14:17	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		20		04/17/19 14:17	460-00-4	
Dibromofluoromethane (S)	111	%	70-130		20		04/17/19 14:17	1868-53-7	
Toluene-d8 (S)	97	%	70-130		20		04/17/19 14:17	2037-26-5	

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ANALYTICAL RESULTS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40185823

Sample: MW-5D3 **Lab ID: 40185823007** Collected: 04/10/19 14:26 Received: 04/13/19 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		04/17/19 11:15	630-20-6	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/17/19 11:15	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/17/19 11:15	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/17/19 11:15	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<0.54**	ug/L	5.0	0.54	1		04/17/19 11:15	76-13-1	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		04/17/19 11:15	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		04/17/19 11:15	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		04/17/19 11:15	563-58-6	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		04/17/19 11:15	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		04/17/19 11:15	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		04/17/19 11:15	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/17/19 11:15	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		04/17/19 11:15	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		04/17/19 11:15	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/17/19 11:15	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		04/17/19 11:15	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		04/17/19 11:15	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/17/19 11:15	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		04/17/19 11:15	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		04/17/19 11:15	142-28-9	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		04/17/19 11:15	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		04/17/19 11:15	594-20-7	
2-Butanone (MEK)	**<2.9**	ug/L	20.0	2.9	1		04/17/19 11:15	78-93-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		04/17/19 11:15	95-49-8	
2-Hexanone	**<2.5**	ug/L	8.2	2.5	1		04/17/19 11:15	591-78-6	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		04/17/19 11:15	106-43-4	
4-Methyl-2-pentanone (MIBK)	**<1.5**	ug/L	5.1	1.5	1		04/17/19 11:15	108-10-1	
Acetone	**<2.7**	ug/L	20.0	2.7	1		04/17/19 11:15	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		04/17/19 11:15	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		04/17/19 11:15	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		04/17/19 11:15	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		04/17/19 11:15	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		04/17/19 11:15	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		04/17/19 11:15	74-83-9	
Carbon disulfide	**<0.37**	ug/L	5.0	0.37	1		04/17/19 11:15	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		04/17/19 11:15	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/17/19 11:15	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		04/17/19 11:15	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/17/19 11:15	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		04/17/19 11:15	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		04/17/19 11:15	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		04/17/19 11:15	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		04/17/19 11:15	75-71-8	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		04/17/19 11:15	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		04/17/19 11:15	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		04/17/19 11:15	87-68-3	

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ANALYTICAL RESULTS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40185823

Sample: MW-5D3 **Lab ID: 40185823007** Collected: 04/10/19 14:26 Received: 04/13/19 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		04/17/19 11:15	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		04/17/19 11:15	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		04/17/19 11:15	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		04/17/19 11:15	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		04/17/19 11:15	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/17/19 11:15	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		04/17/19 11:15	109-99-9	
Toluene	**<0.17**	ug/L	5.0	0.17	1		04/17/19 11:15	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/17/19 11:15	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/17/19 11:15	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/17/19 11:15	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/17/19 11:15	1330-20-7	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		04/17/19 11:15	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		04/17/19 11:15	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		04/17/19 11:15	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		04/17/19 11:15	104-51-8	
n-Hexane	**<1.7**	ug/L	5.7	1.7	1		04/17/19 11:15	110-54-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		04/17/19 11:15	103-65-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		04/17/19 11:15	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		04/17/19 11:15	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		04/17/19 11:15	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		04/17/19 11:15	98-06-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		04/17/19 11:15	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		04/17/19 11:15	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		04/17/19 11:15	460-00-4	
Dibromofluoromethane (S)	112	%	70-130		1		04/17/19 11:15	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		04/17/19 11:15	2037-26-5	

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1241 Bellevue Street - Suite 9
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(920)469-2436

ANALYTICAL RESULTS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40185823

Sample: MW-6D **Lab ID: 40185823008** Collected: 04/11/19 16:40 Received: 04/13/19 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<6.7**	ug/L	25.0	6.7	25		04/17/19 12:24	630-20-6	
1,1,1-Trichloroethane	**<6.1**	ug/L	25.0	6.1	25		04/17/19 12:24	71-55-6	
1,1,2,2-Tetrachloroethane	**<6.9**	ug/L	25.0	6.9	25		04/17/19 12:24	79-34-5	
1,1,2-Trichloroethane	**<13.8**	ug/L	125	13.8	25		04/17/19 12:24	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<13.4**	ug/L	125	13.4	25		04/17/19 12:24	76-13-1	
1,1-Dichloroethane	**<6.8**	ug/L	25.0	6.8	25		04/17/19 12:24	75-34-3	
1,1-Dichloroethene	**<6.1**	ug/L	25.0	6.1	25		04/17/19 12:24	75-35-4	
1,1-Dichloropropene	**<13.5**	ug/L	45.0	13.5	25		04/17/19 12:24	563-58-6	
1,2,3-Trichlorobenzene	**<15.6**	ug/L	125	15.6	25		04/17/19 12:24	87-61-6	
1,2,3-Trichloropropane	**<14.8**	ug/L	125	14.8	25		04/17/19 12:24	96-18-4	
1,2,4-Trichlorobenzene	**<23.8**	ug/L	125	23.8	25		04/17/19 12:24	120-82-1	
1,2,4-Trimethylbenzene	**57.0J**	ug/L	70.0	21.0	25		04/17/19 12:24	95-63-6	
1,2-Dibromo-3-chloropropane	**<44.1**	ug/L	147	44.1	25		04/17/19 12:24	96-12-8	
1,2-Dibromoethane (EDB)	**<20.7**	ug/L	69.1	20.7	25		04/17/19 12:24	106-93-4	
1,2-Dichlorobenzene	**<17.6**	ug/L	58.8	17.6	25		04/17/19 12:24	95-50-1	
1,2-Dichloroethane	**<7.0**	ug/L	25.0	7.0	25		04/17/19 12:24	107-06-2	
1,2-Dichloropropane	**<7.1**	ug/L	25.0	7.1	25		04/17/19 12:24	78-87-5	
1,3,5-Trimethylbenzene	**<21.8**	ug/L	72.8	21.8	25		04/17/19 12:24	108-67-8	
1,3-Dichlorobenzene	**<15.7**	ug/L	52.3	15.7	25		04/17/19 12:24	541-73-1	
1,3-Dichloropropane	**<20.6**	ug/L	68.8	20.6	25		04/17/19 12:24	142-28-9	
1,4-Dichlorobenzene	**<23.6**	ug/L	78.6	23.6	25		04/17/19 12:24	106-46-7	
2,2-Dichloropropane	**<56.6**	ug/L	189	56.6	25		04/17/19 12:24	594-20-7	
2-Butanone (MEK)	**<73.4**	ug/L	500	73.4	25		04/17/19 12:24	78-93-3	
2-Chlorotoluene	**<23.2**	ug/L	125	23.2	25		04/17/19 12:24	95-49-8	
2-Hexanone	**<61.4**	ug/L	205	61.4	25		04/17/19 12:24	591-78-6	
4-Chlorotoluene	**<18.9**	ug/L	63.0	18.9	25		04/17/19 12:24	106-43-4	
4-Methyl-2-pentanone (MIBK)	**<38.3**	ug/L	128	38.3	25		04/17/19 12:24	108-10-1	
Acetone	**119J**	ug/L	500	68.5	25		04/17/19 12:24	67-64-1	
Benzene	**1210**	ug/L	25.0	6.2	25		04/17/19 12:24	71-43-2	
Bromobenzene	**<6.0**	ug/L	25.0	6.0	25		04/17/19 12:24	108-86-1	
Bromochloromethane	**<9.1**	ug/L	125	9.1	25		04/17/19 12:24	74-97-5	
Bromodichloromethane	**<9.1**	ug/L	30.3	9.1	25		04/17/19 12:24	75-27-4	
Bromoform	**<99.3**	ug/L	331	99.3	25		04/17/19 12:24	75-25-2	
Bromomethane	**<24.3**	ug/L	125	24.3	25		04/17/19 12:24	74-83-9	
Carbon disulfide	**<9.4**	ug/L	125	9.4	25		04/17/19 12:24	75-15-0	
Carbon tetrachloride	**<4.1**	ug/L	25.0	4.1	25		04/17/19 12:24	56-23-5	
Chlorobenzene	**<17.8**	ug/L	59.2	17.8	25		04/17/19 12:24	108-90-7	
Chloroethane	**<33.6**	ug/L	125	33.6	25		04/17/19 12:24	75-00-3	
Chloroform	**<31.8**	ug/L	125	31.8	25		04/17/19 12:24	67-66-3	
Chloromethane	**<54.7**	ug/L	182	54.7	25		04/17/19 12:24	74-87-3	
Dibromochloromethane	**<65.0**	ug/L	217	65.0	25		04/17/19 12:24	124-48-1	
Dibromomethane	**<23.4**	ug/L	78.1	23.4	25		04/17/19 12:24	74-95-3	
Dichlorodifluoromethane	**<12.5**	ug/L	125	12.5	25		04/17/19 12:24	75-71-8	
Diisopropyl ether	**<47.2**	ug/L	157	47.2	25		04/17/19 12:24	108-20-3	
Ethylbenzene	**32.0**	ug/L	25.0	5.5	25		04/17/19 12:24	100-41-4	
Hexachloro-1,3-butadiene	**<29.6**	ug/L	125	29.6	25		04/17/19 12:24	87-68-3	

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ANALYTICAL RESULTS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40185823

Sample: MW-6D **Lab ID: 40185823008** Collected: 04/11/19 16:40 Received: 04/13/19 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	**15.3J**	ug/L	125	9.8	25		04/17/19 12:24	98-82-8	
Methyl-tert-butyl ether	**<31.1**	ug/L	104	31.1	25		04/17/19 12:24	1634-04-4	
Methylene Chloride	**<14.5**	ug/L	125	14.5	25		04/17/19 12:24	75-09-2	
Naphthalene	**<29.4**	ug/L	125	29.4	25		04/17/19 12:24	91-20-3	
Styrene	**<11.6**	ug/L	38.8	11.6	25		04/17/19 12:24	100-42-5	
Tetrachloroethene	**<8.2**	ug/L	27.2	8.2	25		04/17/19 12:24	127-18-4	
Tetrahydrofuran	**<58.0**	ug/L	500	58.0	25		04/17/19 12:24	109-99-9	
Toluene	**95.5J**	ug/L	125	4.3	25		04/17/19 12:24	108-88-3	
Trichloroethene	**14.4J**	ug/L	25.0	6.4	25		04/17/19 12:24	79-01-6	
Trichlorofluoromethane	**<5.4**	ug/L	25.0	5.4	25		04/17/19 12:24	75-69-4	
Vinyl chloride	**<4.4**	ug/L	25.0	4.4	25		04/17/19 12:24	75-01-4	
Xylene (Total)	**44.2J**	ug/L	75.0	37.5	25		04/17/19 12:24	1330-20-7	
cis-1,2-Dichloroethene	**<6.8**	ug/L	25.0	6.8	25		04/17/19 12:24	156-59-2	
cis-1,3-Dichloropropene	**<90.7**	ug/L	302	90.7	25		04/17/19 12:24	10061-01-5	
m&p-Xylene	**44.2J**	ug/L	50.0	11.6	25		04/17/19 12:24	179601-23-1	
n-Butylbenzene	**<17.7**	ug/L	59.0	17.7	25		04/17/19 12:24	104-51-8	
n-Hexane	**<42.7**	ug/L	142	42.7	25		04/17/19 12:24	110-54-3	
n-Propylbenzene	**<20.3**	ug/L	125	20.3	25		04/17/19 12:24	103-65-1	
o-Xylene	**<6.5**	ug/L	25.0	6.5	25		04/17/19 12:24	95-47-6	
p-Isopropyltoluene	**<20.0**	ug/L	66.7	20.0	25		04/17/19 12:24	99-87-6	
sec-Butylbenzene	**<21.2**	ug/L	125	21.2	25		04/17/19 12:24	135-98-8	
tert-Butylbenzene	**<7.6**	ug/L	25.3	7.6	25		04/17/19 12:24	98-06-6	
trans-1,2-Dichloroethene	**<27.3**	ug/L	90.9	27.3	25		04/17/19 12:24	156-60-5	
trans-1,3-Dichloropropene	**<109**	ug/L	364	109	25		04/17/19 12:24	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		25		04/17/19 12:24	460-00-4	
Dibromofluoromethane (S)	113	%	70-130		25		04/17/19 12:24	1868-53-7	
Toluene-d8 (S)	97	%	70-130		25		04/17/19 12:24	2037-26-5	

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ANALYTICAL RESULTS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40185823

Sample: MW-9D2 **Lab ID: 40185823009** Collected: 04/09/19 11:23 Received: 04/13/19 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.54**	ug/L	2.0	0.54	2		04/16/19 13:07	630-20-6	
1,1,1-Trichloroethane	**<0.49**	ug/L	2.0	0.49	2		04/16/19 13:07	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.55**	ug/L	2.0	0.55	2		04/16/19 13:07	79-34-5	
1,1,2-Trichloroethane	**<1.1**	ug/L	10.0	1.1	2		04/16/19 13:07	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<1.1**	ug/L	10.0	1.1	2		04/16/19 13:07	76-13-1	
1,1-Dichloroethane	**<0.55**	ug/L	2.0	0.55	2		04/16/19 13:07	75-34-3	
1,1-Dichloroethene	**<0.49**	ug/L	2.0	0.49	2		04/16/19 13:07	75-35-4	
1,1-Dichloropropene	**<1.1**	ug/L	3.6	1.1	2		04/16/19 13:07	563-58-6	
1,2,3-Trichlorobenzene	**<1.3**	ug/L	10.0	1.3	2		04/16/19 13:07	87-61-6	
1,2,3-Trichloropropane	**<1.2**	ug/L	10.0	1.2	2		04/16/19 13:07	96-18-4	
1,2,4-Trichlorobenzene	**<1.9**	ug/L	10.0	1.9	2		04/16/19 13:07	120-82-1	
1,2,4-Trimethylbenzene	**<1.7**	ug/L	5.6	1.7	2		04/16/19 13:07	95-63-6	
1,2-Dibromo-3-chloropropane	**<3.5**	ug/L	11.8	3.5	2		04/16/19 13:07	96-12-8	
1,2-Dibromoethane (EDB)	**<1.7**	ug/L	5.5	1.7	2		04/16/19 13:07	106-93-4	
1,2-Dichlorobenzene	**<1.4**	ug/L	4.7	1.4	2		04/16/19 13:07	95-50-1	
1,2-Dichloroethane	**<0.56**	ug/L	2.0	0.56	2		04/16/19 13:07	107-06-2	
1,2-Dichloropropane	**<0.57**	ug/L	2.0	0.57	2		04/16/19 13:07	78-87-5	
1,3,5-Trimethylbenzene	**<1.7**	ug/L	5.8	1.7	2		04/16/19 13:07	108-67-8	
1,3-Dichlorobenzene	**<1.3**	ug/L	4.2	1.3	2		04/16/19 13:07	541-73-1	
1,3-Dichloropropane	**<1.7**	ug/L	5.5	1.7	2		04/16/19 13:07	142-28-9	
1,4-Dichlorobenzene	**<1.9**	ug/L	6.3	1.9	2		04/16/19 13:07	106-46-7	
2,2-Dichloropropane	**<4.5**	ug/L	15.1	4.5	2		04/16/19 13:07	594-20-7	
2-Butanone (MEK)	**<5.9**	ug/L	40.0	5.9	2		04/16/19 13:07	78-93-3	
2-Chlorotoluene	**<1.9**	ug/L	10.0	1.9	2		04/16/19 13:07	95-49-8	
2-Hexanone	**<4.9**	ug/L	16.4	4.9	2		04/16/19 13:07	591-78-6	
4-Chlorotoluene	**<1.5**	ug/L	5.0	1.5	2		04/16/19 13:07	106-43-4	
4-Methyl-2-pentanone (MIBK)	**<3.1**	ug/L	10.2	3.1	2		04/16/19 13:07	108-10-1	
Acetone	**<5.5**	ug/L	40.0	5.5	2		04/16/19 13:07	67-64-1	
Benzene	**<0.49**	ug/L	2.0	0.49	2		04/16/19 13:07	71-43-2	
Bromobenzene	**<0.48**	ug/L	2.0	0.48	2		04/16/19 13:07	108-86-1	
Bromochloromethane	**<0.72**	ug/L	10.0	0.72	2		04/16/19 13:07	74-97-5	
Bromodichloromethane	**<0.73**	ug/L	2.4	0.73	2		04/16/19 13:07	75-27-4	
Bromoform	**<7.9**	ug/L	26.5	7.9	2		04/16/19 13:07	75-25-2	
Bromomethane	**<1.9**	ug/L	10.0	1.9	2		04/16/19 13:07	74-83-9	
Carbon disulfide	**<0.75**	ug/L	10.0	0.75	2		04/16/19 13:07	75-15-0	
Carbon tetrachloride	**<0.33**	ug/L	2.0	0.33	2		04/16/19 13:07	56-23-5	
Chlorobenzene	**<1.4**	ug/L	4.7	1.4	2		04/16/19 13:07	108-90-7	
Chloroethane	**<2.7**	ug/L	10.0	2.7	2		04/16/19 13:07	75-00-3	
Chloroform	**<2.5**	ug/L	10.0	2.5	2		04/16/19 13:07	67-66-3	
Chloromethane	**<4.4**	ug/L	14.6	4.4	2		04/16/19 13:07	74-87-3	
Dibromochloromethane	**<5.2**	ug/L	17.3	5.2	2		04/16/19 13:07	124-48-1	
Dibromomethane	**<1.9**	ug/L	6.2	1.9	2		04/16/19 13:07	74-95-3	
Dichlorodifluoromethane	**<1.0**	ug/L	10.0	1.0	2		04/16/19 13:07	75-71-8	
Diisopropyl ether	**<3.8**	ug/L	12.6	3.8	2		04/16/19 13:07	108-20-3	
Ethylbenzene	**<0.44**	ug/L	2.0	0.44	2		04/16/19 13:07	100-41-4	
Hexachloro-1,3-butadiene	**<2.4**	ug/L	10.0	2.4	2		04/16/19 13:07	87-68-3	

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ANALYTICAL RESULTS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40185823

Sample: MW-9D2 **Lab ID: 40185823009** Collected: 04/09/19 11:23 Received: 04/13/19 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	**<0.79**	ug/L	10.0	0.79	2		04/16/19 13:07	98-82-8	
Methyl-tert-butyl ether	**30.0**	ug/L	8.3	2.5	2		04/16/19 13:07	1634-04-4	
Methylene Chloride	**<1.2**	ug/L	10.0	1.2	2		04/16/19 13:07	75-09-2	
Naphthalene	**<2.4**	ug/L	10.0	2.4	2		04/16/19 13:07	91-20-3	
Styrene	**<0.93**	ug/L	3.1	0.93	2		04/16/19 13:07	100-42-5	
Tetrachloroethene	**98.5**	ug/L	2.2	0.65	2		04/16/19 13:07	127-18-4	
Tetrahydrofuran	**<4.6**	ug/L	40.0	4.6	2		04/16/19 13:07	109-99-9	
Toluene	**<0.34**	ug/L	10.0	0.34	2		04/16/19 13:07	108-88-3	
Trichloroethene	**25.8**	ug/L	2.0	0.51	2		04/16/19 13:07	79-01-6	
Trichlorofluoromethane	**<0.43**	ug/L	2.0	0.43	2		04/16/19 13:07	75-69-4	
Vinyl chloride	**1.7J**	ug/L	2.0	0.35	2		04/16/19 13:07	75-01-4	
Xylene (Total)	**<3.0**	ug/L	6.0	3.0	2		04/16/19 13:07	1330-20-7	
cis-1,2-Dichloroethene	**64.1**	ug/L	2.0	0.54	2		04/16/19 13:07	156-59-2	
cis-1,3-Dichloropropene	**<7.3**	ug/L	24.2	7.3	2		04/16/19 13:07	10061-01-5	
m&p-Xylene	**<0.93**	ug/L	4.0	0.93	2		04/16/19 13:07	179601-23-1	
n-Butylbenzene	**<1.4**	ug/L	4.7	1.4	2		04/16/19 13:07	104-51-8	
n-Hexane	**<3.4**	ug/L	11.4	3.4	2		04/16/19 13:07	110-54-3	
n-Propylbenzene	**<1.6**	ug/L	10.0	1.6	2		04/16/19 13:07	103-65-1	
o-Xylene	**<0.52**	ug/L	2.0	0.52	2		04/16/19 13:07	95-47-6	
p-Isopropyltoluene	**<1.6**	ug/L	5.3	1.6	2		04/16/19 13:07	99-87-6	
sec-Butylbenzene	**<1.7**	ug/L	10.0	1.7	2		04/16/19 13:07	135-98-8	
tert-Butylbenzene	**<0.61**	ug/L	2.0	0.61	2		04/16/19 13:07	98-06-6	
trans-1,2-Dichloroethene	**<2.2**	ug/L	7.3	2.2	2		04/16/19 13:07	156-60-5	
trans-1,3-Dichloropropene	**<8.7**	ug/L	29.1	8.7	2		04/16/19 13:07	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		2		04/16/19 13:07	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		2		04/16/19 13:07	1868-53-7	
Toluene-d8 (S)	99	%	70-130		2		04/16/19 13:07	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40185823

Sample: MW-17 **Lab ID: 40185823010** Collected: 04/11/19 16:22 Received: 04/13/19 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<2.7**	ug/L	10.0	2.7	10		04/17/19 14:39	630-20-6	
1,1,1-Trichloroethane	**<2.4**	ug/L	10.0	2.4	10		04/17/19 14:39	71-55-6	
1,1,2,2-Tetrachloroethane	**<2.8**	ug/L	10.0	2.8	10		04/17/19 14:39	79-34-5	
1,1,2-Trichloroethane	**<5.5**	ug/L	50.0	5.5	10		04/17/19 14:39	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<5.4**	ug/L	50.0	5.4	10		04/17/19 14:39	76-13-1	
1,1-Dichloroethane	**<2.7**	ug/L	10.0	2.7	10		04/17/19 14:39	75-34-3	
1,1-Dichloroethene	**<2.4**	ug/L	10.0	2.4	10		04/17/19 14:39	75-35-4	
1,1-Dichloropropene	**<5.4**	ug/L	18.0	5.4	10		04/17/19 14:39	563-58-6	
1,2,3-Trichlorobenzene	**<6.3**	ug/L	50.0	6.3	10		04/17/19 14:39	87-61-6	
1,2,3-Trichloropropane	**<5.9**	ug/L	50.0	5.9	10		04/17/19 14:39	96-18-4	
1,2,4-Trichlorobenzene	**<9.5**	ug/L	50.0	9.5	10		04/17/19 14:39	120-82-1	
1,2,4-Trimethylbenzene	**<8.4**	ug/L	28.0	8.4	10		04/17/19 14:39	95-63-6	
1,2-Dibromo-3-chloropropane	**<17.6**	ug/L	58.8	17.6	10		04/17/19 14:39	96-12-8	
1,2-Dibromoethane (EDB)	**<8.3**	ug/L	27.6	8.3	10		04/17/19 14:39	106-93-4	
1,2-Dichlorobenzene	**<7.1**	ug/L	23.5	7.1	10		04/17/19 14:39	95-50-1	
1,2-Dichloroethane	**<2.8**	ug/L	10.0	2.8	10		04/17/19 14:39	107-06-2	
1,2-Dichloropropane	**<2.8**	ug/L	10.0	2.8	10		04/17/19 14:39	78-87-5	
1,3,5-Trimethylbenzene	**<8.7**	ug/L	29.1	8.7	10		04/17/19 14:39	108-67-8	
1,3-Dichlorobenzene	**<6.3**	ug/L	20.9	6.3	10		04/17/19 14:39	541-73-1	
1,3-Dichloropropane	**<8.3**	ug/L	27.5	8.3	10		04/17/19 14:39	142-28-9	
1,4-Dichlorobenzene	**<9.4**	ug/L	31.5	9.4	10		04/17/19 14:39	106-46-7	
2,2-Dichloropropane	**<22.7**	ug/L	75.5	22.7	10		04/17/19 14:39	594-20-7	
2-Butanone (MEK)	**<29.4**	ug/L	200	29.4	10		04/17/19 14:39	78-93-3	
2-Chlorotoluene	**<9.3**	ug/L	50.0	9.3	10		04/17/19 14:39	95-49-8	
2-Hexanone	**<24.6**	ug/L	81.9	24.6	10		04/17/19 14:39	591-78-6	
4-Chlorotoluene	**<7.6**	ug/L	25.2	7.6	10		04/17/19 14:39	106-43-4	
4-Methyl-2-pentanone (MIBK)	**<15.3**	ug/L	51.0	15.3	10		04/17/19 14:39	108-10-1	
Acetone	**<27.4**	ug/L	200	27.4	10		04/17/19 14:39	67-64-1	
Benzene	**<2.5**	ug/L	10.0	2.5	10		04/17/19 14:39	71-43-2	
Bromobenzene	**<2.4**	ug/L	10.0	2.4	10		04/17/19 14:39	108-86-1	
Bromochloromethane	**<3.6**	ug/L	50.0	3.6	10		04/17/19 14:39	74-97-5	
Bromodichloromethane	**<3.6**	ug/L	12.1	3.6	10		04/17/19 14:39	75-27-4	
Bromoform	**<39.7**	ug/L	132	39.7	10		04/17/19 14:39	75-25-2	
Bromomethane	**<9.7**	ug/L	50.0	9.7	10		04/17/19 14:39	74-83-9	
Carbon disulfide	**<3.7**	ug/L	50.0	3.7	10		04/17/19 14:39	75-15-0	
Carbon tetrachloride	**<1.7**	ug/L	10.0	1.7	10		04/17/19 14:39	56-23-5	
Chlorobenzene	**<7.1**	ug/L	23.7	7.1	10		04/17/19 14:39	108-90-7	
Chloroethane	**<13.4**	ug/L	50.0	13.4	10		04/17/19 14:39	75-00-3	
Chloroform	**<12.7**	ug/L	50.0	12.7	10		04/17/19 14:39	67-66-3	
Chloromethane	**<21.9**	ug/L	73.0	21.9	10		04/17/19 14:39	74-87-3	
Dibromochloromethane	**<26.0**	ug/L	86.7	26.0	10		04/17/19 14:39	124-48-1	
Dibromomethane	**<9.4**	ug/L	31.2	9.4	10		04/17/19 14:39	74-95-3	
Dichlorodifluoromethane	**<5.0**	ug/L	50.0	5.0	10		04/17/19 14:39	75-71-8	
Diisopropyl ether	**<18.9**	ug/L	62.9	18.9	10		04/17/19 14:39	108-20-3	
Ethylbenzene	**<2.2**	ug/L	10.0	2.2	10		04/17/19 14:39	100-41-4	
Hexachloro-1,3-butadiene	**<11.8**	ug/L	50.0	11.8	10		04/17/19 14:39	87-68-3	

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ANALYTICAL RESULTS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40185823

Sample: MW-17 **Lab ID: 40185823010** Collected: 04/11/19 16:22 Received: 04/13/19 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	**<3.9**	ug/L	50.0	3.9	10		04/17/19 14:39	98-82-8	
Methyl-tert-butyl ether	**<12.5**	ug/L	41.5	12.5	10		04/17/19 14:39	1634-04-4	
Methylene Chloride	**<5.8**	ug/L	50.0	5.8	10		04/17/19 14:39	75-09-2	
Naphthalene	**<11.8**	ug/L	50.0	11.8	10		04/17/19 14:39	91-20-3	
Styrene	**<4.7**	ug/L	15.5	4.7	10		04/17/19 14:39	100-42-5	
Tetrachloroethene	**831**	ug/L	10.9	3.3	10		04/17/19 14:39	127-18-4	
Tetrahydrofuran	**<23.2**	ug/L	200	23.2	10		04/17/19 14:39	109-99-9	
Toluene	**<1.7**	ug/L	50.0	1.7	10		04/17/19 14:39	108-88-3	
Trichloroethene	**67.6**	ug/L	10.0	2.6	10		04/17/19 14:39	79-01-6	
Trichlorofluoromethane	**<2.1**	ug/L	10.0	2.1	10		04/17/19 14:39	75-69-4	
Vinyl chloride	**<1.7**	ug/L	10.0	1.7	10		04/17/19 14:39	75-01-4	
Xylene (Total)	**<15.0**	ug/L	30.0	15.0	10		04/17/19 14:39	1330-20-7	
cis-1,2-Dichloroethene	**5.5J**	ug/L	10.0	2.7	10		04/17/19 14:39	156-59-2	
cis-1,3-Dichloropropene	**<36.3**	ug/L	121	36.3	10		04/17/19 14:39	10061-01-5	
m&p-Xylene	**<4.7**	ug/L	20.0	4.7	10		04/17/19 14:39	179601-23-1	
n-Butylbenzene	**<7.1**	ug/L	23.6	7.1	10		04/17/19 14:39	104-51-8	
n-Hexane	**<17.1**	ug/L	57.0	17.1	10		04/17/19 14:39	110-54-3	
n-Propylbenzene	**<8.1**	ug/L	50.0	8.1	10		04/17/19 14:39	103-65-1	
o-Xylene	**<2.6**	ug/L	10.0	2.6	10		04/17/19 14:39	95-47-6	
p-Isopropyltoluene	**<8.0**	ug/L	26.7	8.0	10		04/17/19 14:39	99-87-6	
sec-Butylbenzene	**<8.5**	ug/L	50.0	8.5	10		04/17/19 14:39	135-98-8	
tert-Butylbenzene	**<3.0**	ug/L	10.1	3.0	10		04/17/19 14:39	98-06-6	
trans-1,2-Dichloroethene	**<10.9**	ug/L	36.4	10.9	10		04/17/19 14:39	156-60-5	
trans-1,3-Dichloropropene	**<43.7**	ug/L	146	43.7	10		04/17/19 14:39	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		10		04/17/19 14:39	460-00-4	
Dibromofluoromethane (S)	111	%	70-130		10		04/17/19 14:39	1868-53-7	
Toluene-d8 (S)	96	%	70-130		10		04/17/19 14:39	2037-26-5	

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ANALYTICAL RESULTS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40185823

Sample: MW-25D2 **Lab ID: 40185823011** Collected: 04/10/19 10:44 Received: 04/13/19 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		04/16/19 11:37	630-20-6	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/16/19 11:37	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/16/19 11:37	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/16/19 11:37	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<0.54**	ug/L	5.0	0.54	1		04/16/19 11:37	76-13-1	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		04/16/19 11:37	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		04/16/19 11:37	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		04/16/19 11:37	563-58-6	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		04/16/19 11:37	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		04/16/19 11:37	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		04/16/19 11:37	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/16/19 11:37	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		04/16/19 11:37	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		04/16/19 11:37	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/16/19 11:37	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		04/16/19 11:37	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		04/16/19 11:37	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/16/19 11:37	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		04/16/19 11:37	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		04/16/19 11:37	142-28-9	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		04/16/19 11:37	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		04/16/19 11:37	594-20-7	
2-Butanone (MEK)	**<2.9**	ug/L	20.0	2.9	1		04/16/19 11:37	78-93-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		04/16/19 11:37	95-49-8	
2-Hexanone	**<2.5**	ug/L	8.2	2.5	1		04/16/19 11:37	591-78-6	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		04/16/19 11:37	106-43-4	
4-Methyl-2-pentanone (MIBK)	**<1.5**	ug/L	5.1	1.5	1		04/16/19 11:37	108-10-1	
Acetone	**<2.7**	ug/L	20.0	2.7	1		04/16/19 11:37	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		04/16/19 11:37	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		04/16/19 11:37	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		04/16/19 11:37	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		04/16/19 11:37	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		04/16/19 11:37	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		04/16/19 11:37	74-83-9	
Carbon disulfide	**<0.37**	ug/L	5.0	0.37	1		04/16/19 11:37	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		04/16/19 11:37	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/16/19 11:37	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		04/16/19 11:37	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/16/19 11:37	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		04/16/19 11:37	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		04/16/19 11:37	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		04/16/19 11:37	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		04/16/19 11:37	75-71-8	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		04/16/19 11:37	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		04/16/19 11:37	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		04/16/19 11:37	87-68-3	

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ANALYTICAL RESULTS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40185823

Sample: MW-25D2 **Lab ID: 40185823011** Collected: 04/10/19 10:44 Received: 04/13/19 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		04/16/19 11:37	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		04/16/19 11:37	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		04/16/19 11:37	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		04/16/19 11:37	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		04/16/19 11:37	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/16/19 11:37	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		04/16/19 11:37	109-99-9	
Toluene	**<0.17**	ug/L	5.0	0.17	1		04/16/19 11:37	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/16/19 11:37	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/16/19 11:37	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/16/19 11:37	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/16/19 11:37	1330-20-7	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		04/16/19 11:37	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		04/16/19 11:37	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		04/16/19 11:37	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		04/16/19 11:37	104-51-8	
n-Hexane	**<1.7**	ug/L	5.7	1.7	1		04/16/19 11:37	110-54-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		04/16/19 11:37	103-65-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		04/16/19 11:37	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		04/16/19 11:37	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		04/16/19 11:37	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		04/16/19 11:37	98-06-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		04/16/19 11:37	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		04/16/19 11:37	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		04/16/19 11:37	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		04/16/19 11:37	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		04/16/19 11:37	2037-26-5	

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ANALYTICAL RESULTS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40185823

Sample: MW-27D **Lab ID: 40185823012** Collected: 04/10/19 12:54 Received: 04/13/19 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		04/17/19 11:37	630-20-6	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/17/19 11:37	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/17/19 11:37	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/17/19 11:37	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<0.54**	ug/L	5.0	0.54	1		04/17/19 11:37	76-13-1	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		04/17/19 11:37	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		04/17/19 11:37	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		04/17/19 11:37	563-58-6	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		04/17/19 11:37	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		04/17/19 11:37	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		04/17/19 11:37	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/17/19 11:37	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		04/17/19 11:37	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		04/17/19 11:37	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/17/19 11:37	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		04/17/19 11:37	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		04/17/19 11:37	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/17/19 11:37	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		04/17/19 11:37	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		04/17/19 11:37	142-28-9	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		04/17/19 11:37	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		04/17/19 11:37	594-20-7	
2-Butanone (MEK)	**<2.9**	ug/L	20.0	2.9	1		04/17/19 11:37	78-93-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		04/17/19 11:37	95-49-8	
2-Hexanone	**<2.5**	ug/L	8.2	2.5	1		04/17/19 11:37	591-78-6	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		04/17/19 11:37	106-43-4	
4-Methyl-2-pentanone (MIBK)	**<1.5**	ug/L	5.1	1.5	1		04/17/19 11:37	108-10-1	
Acetone	**<2.7**	ug/L	20.0	2.7	1		04/17/19 11:37	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		04/17/19 11:37	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		04/17/19 11:37	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		04/17/19 11:37	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		04/17/19 11:37	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		04/17/19 11:37	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		04/17/19 11:37	74-83-9	
Carbon disulfide	**<0.37**	ug/L	5.0	0.37	1		04/17/19 11:37	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		04/17/19 11:37	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/17/19 11:37	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		04/17/19 11:37	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/17/19 11:37	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		04/17/19 11:37	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		04/17/19 11:37	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		04/17/19 11:37	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		04/17/19 11:37	75-71-8	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		04/17/19 11:37	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		04/17/19 11:37	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		04/17/19 11:37	87-68-3	

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ANALYTICAL RESULTS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40185823

Sample: MW-27D **Lab ID: 40185823012** Collected: 04/10/19 12:54 Received: 04/13/19 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		04/17/19 11:37	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		04/17/19 11:37	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		04/17/19 11:37	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		04/17/19 11:37	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		04/17/19 11:37	100-42-5	
Tetrachloroethene	**2.7**	ug/L	1.1	0.33	1		04/17/19 11:37	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		04/17/19 11:37	109-99-9	
Toluene	**<0.17**	ug/L	5.0	0.17	1		04/17/19 11:37	108-88-3	
Trichloroethene	**1.7**	ug/L	1.0	0.26	1		04/17/19 11:37	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/17/19 11:37	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/17/19 11:37	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/17/19 11:37	1330-20-7	
cis-1,2-Dichloroethene	**1.1**	ug/L	1.0	0.27	1		04/17/19 11:37	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		04/17/19 11:37	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		04/17/19 11:37	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		04/17/19 11:37	104-51-8	
n-Hexane	**<1.7**	ug/L	5.7	1.7	1		04/17/19 11:37	110-54-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		04/17/19 11:37	103-65-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		04/17/19 11:37	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		04/17/19 11:37	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		04/17/19 11:37	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		04/17/19 11:37	98-06-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		04/17/19 11:37	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		04/17/19 11:37	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		04/17/19 11:37	460-00-4	
Dibromofluoromethane (S)	113	%	70-130		1		04/17/19 11:37	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		04/17/19 11:37	2037-26-5	

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ANALYTICAL RESULTS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40185823

Sample: MP-14 (135-140) **Lab ID: 40185823013** Collected: 04/08/19 13:50 Received: 04/13/19 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<1.1**	ug/L	4.0	1.1	4		04/17/19 13:32	630-20-6	
1,1,1-Trichloroethane	**<0.98**	ug/L	4.0	0.98	4		04/17/19 13:32	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.1**	ug/L	4.0	1.1	4		04/17/19 13:32	79-34-5	
1,1,2-Trichloroethane	**<2.2**	ug/L	20.0	2.2	4		04/17/19 13:32	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<2.1**	ug/L	20.0	2.1	4		04/17/19 13:32	76-13-1	
1,1-Dichloroethane	**<1.1**	ug/L	4.0	1.1	4		04/17/19 13:32	75-34-3	
1,1-Dichloroethene	**<0.98**	ug/L	4.0	0.98	4		04/17/19 13:32	75-35-4	
1,1-Dichloropropene	**<2.2**	ug/L	7.2	2.2	4		04/17/19 13:32	563-58-6	
1,2,3-Trichlorobenzene	**<2.5**	ug/L	20.0	2.5	4		04/17/19 13:32	87-61-6	
1,2,3-Trichloropropane	**<2.4**	ug/L	20.0	2.4	4		04/17/19 13:32	96-18-4	
1,2,4-Trichlorobenzene	**<3.8**	ug/L	20.0	3.8	4		04/17/19 13:32	120-82-1	
1,2,4-Trimethylbenzene	**<3.4**	ug/L	11.2	3.4	4		04/17/19 13:32	95-63-6	
1,2-Dibromo-3-chloropropane	**<7.1**	ug/L	23.5	7.1	4		04/17/19 13:32	96-12-8	
1,2-Dibromoethane (EDB)	**<3.3**	ug/L	11.1	3.3	4		04/17/19 13:32	106-93-4	
1,2-Dichlorobenzene	**<2.8**	ug/L	9.4	2.8	4		04/17/19 13:32	95-50-1	
1,2-Dichloroethane	**<1.1**	ug/L	4.0	1.1	4		04/17/19 13:32	107-06-2	
1,2-Dichloropropane	**<1.1**	ug/L	4.0	1.1	4		04/17/19 13:32	78-87-5	
1,3,5-Trimethylbenzene	**<3.5**	ug/L	11.6	3.5	4		04/17/19 13:32	108-67-8	
1,3-Dichlorobenzene	**<2.5**	ug/L	8.4	2.5	4		04/17/19 13:32	541-73-1	
1,3-Dichloropropane	**<3.3**	ug/L	11.0	3.3	4		04/17/19 13:32	142-28-9	
1,4-Dichlorobenzene	**<3.8**	ug/L	12.6	3.8	4		04/17/19 13:32	106-46-7	
2,2-Dichloropropane	**<9.1**	ug/L	30.2	9.1	4		04/17/19 13:32	594-20-7	
2-Butanone (MEK)	**<11.7**	ug/L	80.0	11.7	4		04/17/19 13:32	78-93-3	
2-Chlorotoluene	**<3.7**	ug/L	20.0	3.7	4		04/17/19 13:32	95-49-8	
2-Hexanone	**<9.8**	ug/L	32.8	9.8	4		04/17/19 13:32	591-78-6	
4-Chlorotoluene	**<3.0**	ug/L	10.1	3.0	4		04/17/19 13:32	106-43-4	
4-Methyl-2-pentanone (MIBK)	**<6.1**	ug/L	20.4	6.1	4		04/17/19 13:32	108-10-1	
Acetone	**<11.0**	ug/L	80.0	11.0	4		04/17/19 13:32	67-64-1	
Benzene	**<0.99**	ug/L	4.0	0.99	4		04/17/19 13:32	71-43-2	
Bromobenzene	**<0.96**	ug/L	4.0	0.96	4		04/17/19 13:32	108-86-1	
Bromochloromethane	**<1.4**	ug/L	20.0	1.4	4		04/17/19 13:32	74-97-5	
Bromodichloromethane	**<1.5**	ug/L	4.8	1.5	4		04/17/19 13:32	75-27-4	
Bromoform	**<15.9**	ug/L	53.0	15.9	4		04/17/19 13:32	75-25-2	
Bromomethane	**<3.9**	ug/L	20.0	3.9	4		04/17/19 13:32	74-83-9	
Carbon disulfide	**<1.5**	ug/L	20.0	1.5	4		04/17/19 13:32	75-15-0	
Carbon tetrachloride	**<0.66**	ug/L	4.0	0.66	4		04/17/19 13:32	56-23-5	
Chlorobenzene	**<2.8**	ug/L	9.5	2.8	4		04/17/19 13:32	108-90-7	
Chloroethane	**<5.4**	ug/L	20.0	5.4	4		04/17/19 13:32	75-00-3	
Chloroform	**<5.1**	ug/L	20.0	5.1	4		04/17/19 13:32	67-66-3	
Chloromethane	**<8.8**	ug/L	29.2	8.8	4		04/17/19 13:32	74-87-3	
Dibromochloromethane	**<10.4**	ug/L	34.7	10.4	4		04/17/19 13:32	124-48-1	
Dibromomethane	**<3.7**	ug/L	12.5	3.7	4		04/17/19 13:32	74-95-3	
Dichlorodifluoromethane	**<2.0**	ug/L	20.0	2.0	4		04/17/19 13:32	75-71-8	
Diisopropyl ether	**<7.6**	ug/L	25.2	7.6	4		04/17/19 13:32	108-20-3	
Ethylbenzene	**<0.87**	ug/L	4.0	0.87	4		04/17/19 13:32	100-41-4	
Hexachloro-1,3-butadiene	**<4.7**	ug/L	20.0	4.7	4		04/17/19 13:32	87-68-3	

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ANALYTICAL RESULTS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40185823

Sample: MP-14 (135-140) **Lab ID: 40185823013** Collected: 04/08/19 13:50 Received: 04/13/19 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	**<1.6**	ug/L	20.0	1.6	4		04/17/19 13:32	98-82-8	
Methyl-tert-butyl ether	**<5.0**	ug/L	16.6	5.0	4		04/17/19 13:32	1634-04-4	
Methylene Chloride	**<2.3**	ug/L	20.0	2.3	4		04/17/19 13:32	75-09-2	
Naphthalene	**<4.7**	ug/L	20.0	4.7	4		04/17/19 13:32	91-20-3	
Styrene	**<1.9**	ug/L	6.2	1.9	4		04/17/19 13:32	100-42-5	
Tetrachloroethene	**408**	ug/L	4.4	1.3	4		04/17/19 13:32	127-18-4	
Tetrahydrofuran	**<9.3**	ug/L	80.0	9.3	4		04/17/19 13:32	109-99-9	
Toluene	**<0.69**	ug/L	20.0	0.69	4		04/17/19 13:32	108-88-3	
Trichloroethene	**31.0**	ug/L	4.0	1.0	4		04/17/19 13:32	79-01-6	
Trichlorofluoromethane	**<0.86**	ug/L	4.0	0.86	4		04/17/19 13:32	75-69-4	
Vinyl chloride	**<0.70**	ug/L	4.0	0.70	4		04/17/19 13:32	75-01-4	
Xylene (Total)	**<6.0**	ug/L	12.0	6.0	4		04/17/19 13:32	1330-20-7	
cis-1,2-Dichloroethene	**15.6**	ug/L	4.0	1.1	4		04/17/19 13:32	156-59-2	
cis-1,3-Dichloropropene	**<14.5**	ug/L	48.4	14.5	4		04/17/19 13:32	10061-01-5	
m&p-Xylene	**<1.9**	ug/L	8.0	1.9	4		04/17/19 13:32	179601-23-1	
n-Butylbenzene	**<2.8**	ug/L	9.4	2.8	4		04/17/19 13:32	104-51-8	
n-Hexane	**<6.8**	ug/L	22.8	6.8	4		04/17/19 13:32	110-54-3	
n-Propylbenzene	**<3.2**	ug/L	20.0	3.2	4		04/17/19 13:32	103-65-1	
o-Xylene	**<1.0**	ug/L	4.0	1.0	4		04/17/19 13:32	95-47-6	
p-Isopropyltoluene	**<3.2**	ug/L	10.7	3.2	4		04/17/19 13:32	99-87-6	
sec-Butylbenzene	**<3.4**	ug/L	20.0	3.4	4		04/17/19 13:32	135-98-8	
tert-Butylbenzene	**<1.2**	ug/L	4.1	1.2	4		04/17/19 13:32	98-06-6	
trans-1,2-Dichloroethene	**<4.4**	ug/L	14.5	4.4	4		04/17/19 13:32	156-60-5	
trans-1,3-Dichloropropene	**<17.5**	ug/L	58.3	17.5	4		04/17/19 13:32	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		4		04/17/19 13:32	460-00-4	
Dibromofluoromethane (S)	115	%	70-130		4		04/17/19 13:32	1868-53-7	
Toluene-d8 (S)	99	%	70-130		4		04/17/19 13:32	2037-26-5	

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ANALYTICAL RESULTS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40185823

Sample: MP-16 (140-144) **Lab ID: 40185823014** Collected: 04/08/19 11:30 Received: 04/13/19 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		04/17/19 11:59	630-20-6	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/17/19 11:59	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/17/19 11:59	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/17/19 11:59	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<0.54**	ug/L	5.0	0.54	1		04/17/19 11:59	76-13-1	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		04/17/19 11:59	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		04/17/19 11:59	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		04/17/19 11:59	563-58-6	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		04/17/19 11:59	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		04/17/19 11:59	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		04/17/19 11:59	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/17/19 11:59	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		04/17/19 11:59	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		04/17/19 11:59	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/17/19 11:59	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		04/17/19 11:59	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		04/17/19 11:59	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/17/19 11:59	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		04/17/19 11:59	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		04/17/19 11:59	142-28-9	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		04/17/19 11:59	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		04/17/19 11:59	594-20-7	
2-Butanone (MEK)	**<2.9**	ug/L	20.0	2.9	1		04/17/19 11:59	78-93-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		04/17/19 11:59	95-49-8	
2-Hexanone	**<2.5**	ug/L	8.2	2.5	1		04/17/19 11:59	591-78-6	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		04/17/19 11:59	106-43-4	
4-Methyl-2-pentanone (MIBK)	**<1.5**	ug/L	5.1	1.5	1		04/17/19 11:59	108-10-1	
Acetone	**<2.7**	ug/L	20.0	2.7	1		04/17/19 11:59	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		04/17/19 11:59	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		04/17/19 11:59	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		04/17/19 11:59	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		04/17/19 11:59	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		04/17/19 11:59	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		04/17/19 11:59	74-83-9	
Carbon disulfide	**<0.37**	ug/L	5.0	0.37	1		04/17/19 11:59	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		04/17/19 11:59	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/17/19 11:59	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		04/17/19 11:59	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/17/19 11:59	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		04/17/19 11:59	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		04/17/19 11:59	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		04/17/19 11:59	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		04/17/19 11:59	75-71-8	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		04/17/19 11:59	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		04/17/19 11:59	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		04/17/19 11:59	87-68-3	

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ANALYTICAL RESULTS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40185823

Sample: MP-16 (140-144) **Lab ID: 40185823014** Collected: 04/08/19 11:30 Received: 04/13/19 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		04/17/19 11:59	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		04/17/19 11:59	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		04/17/19 11:59	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		04/17/19 11:59	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		04/17/19 11:59	100-42-5	
Tetrachloroethene	**37.8**	ug/L	1.1	0.33	1		04/17/19 11:59	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		04/17/19 11:59	109-99-9	
Toluene	**<0.17**	ug/L	5.0	0.17	1		04/17/19 11:59	108-88-3	
Trichloroethene	**7.9**	ug/L	1.0	0.26	1		04/17/19 11:59	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/17/19 11:59	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/17/19 11:59	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/17/19 11:59	1330-20-7	
cis-1,2-Dichloroethene	**2.4**	ug/L	1.0	0.27	1		04/17/19 11:59	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		04/17/19 11:59	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		04/17/19 11:59	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		04/17/19 11:59	104-51-8	
n-Hexane	**<1.7**	ug/L	5.7	1.7	1		04/17/19 11:59	110-54-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		04/17/19 11:59	103-65-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		04/17/19 11:59	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		04/17/19 11:59	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		04/17/19 11:59	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		04/17/19 11:59	98-06-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		04/17/19 11:59	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		04/17/19 11:59	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		04/17/19 11:59	460-00-4	
Dibromofluoromethane (S)	114	%	70-130		1		04/17/19 11:59	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		04/17/19 11:59	2037-26-5	

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ANALYTICAL RESULTS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40185823

Sample: DUP-01 **Lab ID: 40185823015** Collected: 04/09/19 00:00 Received: 04/13/19 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<1.1**	ug/L	4.0	1.1	4		04/17/19 13:09	630-20-6	
1,1,1-Trichloroethane	**<0.98**	ug/L	4.0	0.98	4		04/17/19 13:09	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.1**	ug/L	4.0	1.1	4		04/17/19 13:09	79-34-5	
1,1,2-Trichloroethane	**<2.2**	ug/L	20.0	2.2	4		04/17/19 13:09	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<2.1**	ug/L	20.0	2.1	4		04/17/19 13:09	76-13-1	
1,1-Dichloroethane	**<1.1**	ug/L	4.0	1.1	4		04/17/19 13:09	75-34-3	
1,1-Dichloroethene	**<0.98**	ug/L	4.0	0.98	4		04/17/19 13:09	75-35-4	
1,1-Dichloropropene	**<2.2**	ug/L	7.2	2.2	4		04/17/19 13:09	563-58-6	
1,2,3-Trichlorobenzene	**<2.5**	ug/L	20.0	2.5	4		04/17/19 13:09	87-61-6	
1,2,3-Trichloropropane	**<2.4**	ug/L	20.0	2.4	4		04/17/19 13:09	96-18-4	
1,2,4-Trichlorobenzene	**<3.8**	ug/L	20.0	3.8	4		04/17/19 13:09	120-82-1	
1,2,4-Trimethylbenzene	**<3.4**	ug/L	11.2	3.4	4		04/17/19 13:09	95-63-6	
1,2-Dibromo-3-chloropropane	**<7.1**	ug/L	23.5	7.1	4		04/17/19 13:09	96-12-8	
1,2-Dibromoethane (EDB)	**<3.3**	ug/L	11.1	3.3	4		04/17/19 13:09	106-93-4	
1,2-Dichlorobenzene	**<2.8**	ug/L	9.4	2.8	4		04/17/19 13:09	95-50-1	
1,2-Dichloroethane	**<1.1**	ug/L	4.0	1.1	4		04/17/19 13:09	107-06-2	
1,2-Dichloropropane	**<1.1**	ug/L	4.0	1.1	4		04/17/19 13:09	78-87-5	
1,3,5-Trimethylbenzene	**<3.5**	ug/L	11.6	3.5	4		04/17/19 13:09	108-67-8	
1,3-Dichlorobenzene	**<2.5**	ug/L	8.4	2.5	4		04/17/19 13:09	541-73-1	
1,3-Dichloropropane	**<3.3**	ug/L	11.0	3.3	4		04/17/19 13:09	142-28-9	
1,4-Dichlorobenzene	**<3.8**	ug/L	12.6	3.8	4		04/17/19 13:09	106-46-7	
2,2-Dichloropropane	**<9.1**	ug/L	30.2	9.1	4		04/17/19 13:09	594-20-7	
2-Butanone (MEK)	**<11.7**	ug/L	80.0	11.7	4		04/17/19 13:09	78-93-3	
2-Chlorotoluene	**<3.7**	ug/L	20.0	3.7	4		04/17/19 13:09	95-49-8	
2-Hexanone	**<9.8**	ug/L	32.8	9.8	4		04/17/19 13:09	591-78-6	
4-Chlorotoluene	**<3.0**	ug/L	10.1	3.0	4		04/17/19 13:09	106-43-4	
4-Methyl-2-pentanone (MIBK)	**<6.1**	ug/L	20.4	6.1	4		04/17/19 13:09	108-10-1	
Acetone	**<11.0**	ug/L	80.0	11.0	4		04/17/19 13:09	67-64-1	
Benzene	**<0.99**	ug/L	4.0	0.99	4		04/17/19 13:09	71-43-2	
Bromobenzene	**<0.96**	ug/L	4.0	0.96	4		04/17/19 13:09	108-86-1	
Bromochloromethane	**<1.4**	ug/L	20.0	1.4	4		04/17/19 13:09	74-97-5	
Bromodichloromethane	**<1.5**	ug/L	4.8	1.5	4		04/17/19 13:09	75-27-4	
Bromoform	**<15.9**	ug/L	53.0	15.9	4		04/17/19 13:09	75-25-2	
Bromomethane	**<3.9**	ug/L	20.0	3.9	4		04/17/19 13:09	74-83-9	
Carbon disulfide	**<1.5**	ug/L	20.0	1.5	4		04/17/19 13:09	75-15-0	
Carbon tetrachloride	**<0.66**	ug/L	4.0	0.66	4		04/17/19 13:09	56-23-5	
Chlorobenzene	**<2.8**	ug/L	9.5	2.8	4		04/17/19 13:09	108-90-7	
Chloroethane	**<5.4**	ug/L	20.0	5.4	4		04/17/19 13:09	75-00-3	
Chloroform	**<5.1**	ug/L	20.0	5.1	4		04/17/19 13:09	67-66-3	
Chloromethane	**<8.8**	ug/L	29.2	8.8	4		04/17/19 13:09	74-87-3	
Dibromochloromethane	**<10.4**	ug/L	34.7	10.4	4		04/17/19 13:09	124-48-1	
Dibromomethane	**<3.7**	ug/L	12.5	3.7	4		04/17/19 13:09	74-95-3	
Dichlorodifluoromethane	**<2.0**	ug/L	20.0	2.0	4		04/17/19 13:09	75-71-8	
Diisopropyl ether	**<7.6**	ug/L	25.2	7.6	4		04/17/19 13:09	108-20-3	
Ethylbenzene	**<0.87**	ug/L	4.0	0.87	4		04/17/19 13:09	100-41-4	
Hexachloro-1,3-butadiene	**<4.7**	ug/L	20.0	4.7	4		04/17/19 13:09	87-68-3	

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ANALYTICAL RESULTS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40185823

Sample: DUP-01 **Lab ID: 40185823015** Collected: 04/09/19 00:00 Received: 04/13/19 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	**<1.6**	ug/L	20.0	1.6	4		04/17/19 13:09	98-82-8	
Methyl-tert-butyl ether	**<5.0**	ug/L	16.6	5.0	4		04/17/19 13:09	1634-04-4	
Methylene Chloride	**<2.3**	ug/L	20.0	2.3	4		04/17/19 13:09	75-09-2	
Naphthalene	**<4.7**	ug/L	20.0	4.7	4		04/17/19 13:09	91-20-3	
Styrene	**<1.9**	ug/L	6.2	1.9	4		04/17/19 13:09	100-42-5	
Tetrachloroethene	**263**	ug/L	4.4	1.3	4		04/17/19 13:09	127-18-4	
Tetrahydrofuran	**<9.3**	ug/L	80.0	9.3	4		04/17/19 13:09	109-99-9	
Toluene	**<0.69**	ug/L	20.0	0.69	4		04/17/19 13:09	108-88-3	
Trichloroethene	**34.0**	ug/L	4.0	1.0	4		04/17/19 13:09	79-01-6	
Trichlorofluoromethane	**<0.86**	ug/L	4.0	0.86	4		04/17/19 13:09	75-69-4	
Vinyl chloride	**<0.70**	ug/L	4.0	0.70	4		04/17/19 13:09	75-01-4	
Xylene (Total)	**<6.0**	ug/L	12.0	6.0	4		04/17/19 13:09	1330-20-7	
cis-1,2-Dichloroethene	**43.4**	ug/L	4.0	1.1	4		04/17/19 13:09	156-59-2	
cis-1,3-Dichloropropene	**<14.5**	ug/L	48.4	14.5	4		04/17/19 13:09	10061-01-5	
m&p-Xylene	**<1.9**	ug/L	8.0	1.9	4		04/17/19 13:09	179601-23-1	
n-Butylbenzene	**<2.8**	ug/L	9.4	2.8	4		04/17/19 13:09	104-51-8	
n-Hexane	**<6.8**	ug/L	22.8	6.8	4		04/17/19 13:09	110-54-3	
n-Propylbenzene	**<3.2**	ug/L	20.0	3.2	4		04/17/19 13:09	103-65-1	
o-Xylene	**<1.0**	ug/L	4.0	1.0	4		04/17/19 13:09	95-47-6	
p-Isopropyltoluene	**<3.2**	ug/L	10.7	3.2	4		04/17/19 13:09	99-87-6	
sec-Butylbenzene	**<3.4**	ug/L	20.0	3.4	4		04/17/19 13:09	135-98-8	
tert-Butylbenzene	**<1.2**	ug/L	4.1	1.2	4		04/17/19 13:09	98-06-6	
trans-1,2-Dichloroethene	**<4.4**	ug/L	14.5	4.4	4		04/17/19 13:09	156-60-5	
trans-1,3-Dichloropropene	**<17.5**	ug/L	58.3	17.5	4		04/17/19 13:09	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	85	%	70-130		4		04/17/19 13:09	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		4		04/17/19 13:09	1868-53-7	
Toluene-d8 (S)	95	%	70-130		4		04/17/19 13:09	2037-26-5	

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ANALYTICAL RESULTS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40185823

Sample: DUP-03 **Lab ID: 40185823016** Collected: 04/11/19 00:00 Received: 04/13/19 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<6.7**	ug/L	25.0	6.7	25		04/17/19 12:47	630-20-6	
1,1,1-Trichloroethane	**<6.1**	ug/L	25.0	6.1	25		04/17/19 12:47	71-55-6	
1,1,2,2-Tetrachloroethane	**<6.9**	ug/L	25.0	6.9	25		04/17/19 12:47	79-34-5	
1,1,2-Trichloroethane	**<13.8**	ug/L	125	13.8	25		04/17/19 12:47	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<13.4**	ug/L	125	13.4	25		04/17/19 12:47	76-13-1	
1,1-Dichloroethane	**<6.8**	ug/L	25.0	6.8	25		04/17/19 12:47	75-34-3	
1,1-Dichloroethene	**<6.1**	ug/L	25.0	6.1	25		04/17/19 12:47	75-35-4	
1,1-Dichloropropene	**<13.5**	ug/L	45.0	13.5	25		04/17/19 12:47	563-58-6	
1,2,3-Trichlorobenzene	**<15.6**	ug/L	125	15.6	25		04/17/19 12:47	87-61-6	
1,2,3-Trichloropropane	**<14.8**	ug/L	125	14.8	25		04/17/19 12:47	96-18-4	
1,2,4-Trichlorobenzene	**<23.8**	ug/L	125	23.8	25		04/17/19 12:47	120-82-1	
1,2,4-Trimethylbenzene	**56.3J**	ug/L	70.0	21.0	25		04/17/19 12:47	95-63-6	
1,2-Dibromo-3-chloropropane	**<44.1**	ug/L	147	44.1	25		04/17/19 12:47	96-12-8	
1,2-Dibromoethane (EDB)	**<20.7**	ug/L	69.1	20.7	25		04/17/19 12:47	106-93-4	
1,2-Dichlorobenzene	**<17.6**	ug/L	58.8	17.6	25		04/17/19 12:47	95-50-1	
1,2-Dichloroethane	**<7.0**	ug/L	25.0	7.0	25		04/17/19 12:47	107-06-2	
1,2-Dichloropropane	**<7.1**	ug/L	25.0	7.1	25		04/17/19 12:47	78-87-5	
1,3,5-Trimethylbenzene	**<21.8**	ug/L	72.8	21.8	25		04/17/19 12:47	108-67-8	
1,3-Dichlorobenzene	**<15.7**	ug/L	52.3	15.7	25		04/17/19 12:47	541-73-1	
1,3-Dichloropropane	**<20.6**	ug/L	68.8	20.6	25		04/17/19 12:47	142-28-9	
1,4-Dichlorobenzene	**<23.6**	ug/L	78.6	23.6	25		04/17/19 12:47	106-46-7	
2,2-Dichloropropane	**<56.6**	ug/L	189	56.6	25		04/17/19 12:47	594-20-7	
2-Butanone (MEK)	**<73.4**	ug/L	500	73.4	25		04/17/19 12:47	78-93-3	
2-Chlorotoluene	**<23.2**	ug/L	125	23.2	25		04/17/19 12:47	95-49-8	
2-Hexanone	**<61.4**	ug/L	205	61.4	25		04/17/19 12:47	591-78-6	
4-Chlorotoluene	**<18.9**	ug/L	63.0	18.9	25		04/17/19 12:47	106-43-4	
4-Methyl-2-pentanone (MIBK)	**<38.3**	ug/L	128	38.3	25		04/17/19 12:47	108-10-1	
Acetone	**197J**	ug/L	500	68.5	25		04/17/19 12:47	67-64-1	
Benzene	**1280**	ug/L	25.0	6.2	25		04/17/19 12:47	71-43-2	
Bromobenzene	**<6.0**	ug/L	25.0	6.0	25		04/17/19 12:47	108-86-1	
Bromochloromethane	**<9.1**	ug/L	125	9.1	25		04/17/19 12:47	74-97-5	
Bromodichloromethane	**<9.1**	ug/L	30.3	9.1	25		04/17/19 12:47	75-27-4	
Bromoform	**<99.3**	ug/L	331	99.3	25		04/17/19 12:47	75-25-2	
Bromomethane	**<24.3**	ug/L	125	24.3	25		04/17/19 12:47	74-83-9	
Carbon disulfide	**<9.4**	ug/L	125	9.4	25		04/17/19 12:47	75-15-0	
Carbon tetrachloride	**<4.1**	ug/L	25.0	4.1	25		04/17/19 12:47	56-23-5	
Chlorobenzene	**<17.8**	ug/L	59.2	17.8	25		04/17/19 12:47	108-90-7	
Chloroethane	**<33.6**	ug/L	125	33.6	25		04/17/19 12:47	75-00-3	
Chloroform	**<31.8**	ug/L	125	31.8	25		04/17/19 12:47	67-66-3	
Chloromethane	**<54.7**	ug/L	182	54.7	25		04/17/19 12:47	74-87-3	
Dibromochloromethane	**<65.0**	ug/L	217	65.0	25		04/17/19 12:47	124-48-1	
Dibromomethane	**<23.4**	ug/L	78.1	23.4	25		04/17/19 12:47	74-95-3	
Dichlorodifluoromethane	**<12.5**	ug/L	125	12.5	25		04/17/19 12:47	75-71-8	
Diisopropyl ether	**<47.2**	ug/L	157	47.2	25		04/17/19 12:47	108-20-3	
Ethylbenzene	**38.1**	ug/L	25.0	5.5	25		04/17/19 12:47	100-41-4	
Hexachloro-1,3-butadiene	**<29.6**	ug/L	125	29.6	25		04/17/19 12:47	87-68-3	

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ANALYTICAL RESULTS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40185823

Sample: DUP-03 **Lab ID: 40185823016** Collected: 04/11/19 00:00 Received: 04/13/19 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	**16.8J**	ug/L	125	9.8	25		04/17/19 12:47	98-82-8	
Methyl-tert-butyl ether	**<31.1**	ug/L	104	31.1	25		04/17/19 12:47	1634-04-4	
Methylene Chloride	**<14.5**	ug/L	125	14.5	25		04/17/19 12:47	75-09-2	
Naphthalene	**<29.4**	ug/L	125	29.4	25		04/17/19 12:47	91-20-3	
Styrene	**<11.6**	ug/L	38.8	11.6	25		04/17/19 12:47	100-42-5	
Tetrachloroethene	**<8.2**	ug/L	27.2	8.2	25		04/17/19 12:47	127-18-4	
Tetrahydrofuran	**<58.0**	ug/L	500	58.0	25		04/17/19 12:47	109-99-9	
Toluene	**93.1J**	ug/L	125	4.3	25		04/17/19 12:47	108-88-3	
Trichloroethene	**18.3J**	ug/L	25.0	6.4	25		04/17/19 12:47	79-01-6	
Trichlorofluoromethane	**<5.4**	ug/L	25.0	5.4	25		04/17/19 12:47	75-69-4	
Vinyl chloride	**<4.4**	ug/L	25.0	4.4	25		04/17/19 12:47	75-01-4	
Xylene (Total)	**43.4J**	ug/L	75.0	37.5	25		04/17/19 12:47	1330-20-7	
cis-1,2-Dichloroethene	**<6.8**	ug/L	25.0	6.8	25		04/17/19 12:47	156-59-2	
cis-1,3-Dichloropropene	**<90.7**	ug/L	302	90.7	25		04/17/19 12:47	10061-01-5	
m&p-Xylene	**43.4J**	ug/L	50.0	11.6	25		04/17/19 12:47	179601-23-1	
n-Butylbenzene	**<17.7**	ug/L	59.0	17.7	25		04/17/19 12:47	104-51-8	
n-Hexane	**<42.7**	ug/L	142	42.7	25		04/17/19 12:47	110-54-3	
n-Propylbenzene	**<20.3**	ug/L	125	20.3	25		04/17/19 12:47	103-65-1	
o-Xylene	**<6.5**	ug/L	25.0	6.5	25		04/17/19 12:47	95-47-6	
p-Isopropyltoluene	**<20.0**	ug/L	66.7	20.0	25		04/17/19 12:47	99-87-6	
sec-Butylbenzene	**<21.2**	ug/L	125	21.2	25		04/17/19 12:47	135-98-8	
tert-Butylbenzene	**<7.6**	ug/L	25.3	7.6	25		04/17/19 12:47	98-06-6	
trans-1,2-Dichloroethene	**<27.3**	ug/L	90.9	27.3	25		04/17/19 12:47	156-60-5	
trans-1,3-Dichloropropene	**<109**	ug/L	364	109	25		04/17/19 12:47	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		25		04/17/19 12:47	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		25		04/17/19 12:47	1868-53-7	
Toluene-d8 (S)	97	%	70-130		25		04/17/19 12:47	2037-26-5	

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ANALYTICAL RESULTS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40185823

Sample: FB-01 **Lab ID: 40185823017** Collected: 04/12/19 14:30 Received: 04/13/19 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		04/16/19 12:00	630-20-6	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/16/19 12:00	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/16/19 12:00	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/16/19 12:00	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<0.54**	ug/L	5.0	0.54	1		04/16/19 12:00	76-13-1	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		04/16/19 12:00	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		04/16/19 12:00	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		04/16/19 12:00	563-58-6	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		04/16/19 12:00	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		04/16/19 12:00	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		04/16/19 12:00	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/16/19 12:00	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		04/16/19 12:00	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		04/16/19 12:00	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/16/19 12:00	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		04/16/19 12:00	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		04/16/19 12:00	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/16/19 12:00	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		04/16/19 12:00	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		04/16/19 12:00	142-28-9	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		04/16/19 12:00	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		04/16/19 12:00	594-20-7	
2-Butanone (MEK)	**<2.9**	ug/L	20.0	2.9	1		04/16/19 12:00	78-93-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		04/16/19 12:00	95-49-8	
2-Hexanone	**<2.5**	ug/L	8.2	2.5	1		04/16/19 12:00	591-78-6	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		04/16/19 12:00	106-43-4	
4-Methyl-2-pentanone (MIBK)	**<1.5**	ug/L	5.1	1.5	1		04/16/19 12:00	108-10-1	
Acetone	**<2.7**	ug/L	20.0	2.7	1		04/16/19 12:00	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		04/16/19 12:00	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		04/16/19 12:00	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		04/16/19 12:00	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		04/16/19 12:00	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		04/16/19 12:00	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		04/16/19 12:00	74-83-9	
Carbon disulfide	**<0.37**	ug/L	5.0	0.37	1		04/16/19 12:00	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		04/16/19 12:00	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/16/19 12:00	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		04/16/19 12:00	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/16/19 12:00	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		04/16/19 12:00	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		04/16/19 12:00	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		04/16/19 12:00	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		04/16/19 12:00	75-71-8	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		04/16/19 12:00	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		04/16/19 12:00	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		04/16/19 12:00	87-68-3	

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ANALYTICAL RESULTS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40185823

Sample: FB-01 **Lab ID: 40185823017** Collected: 04/12/19 14:30 Received: 04/13/19 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		04/16/19 12:00	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		04/16/19 12:00	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		04/16/19 12:00	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		04/16/19 12:00	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		04/16/19 12:00	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/16/19 12:00	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		04/16/19 12:00	109-99-9	
Toluene	**<0.17**	ug/L	5.0	0.17	1		04/16/19 12:00	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/16/19 12:00	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/16/19 12:00	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/16/19 12:00	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/16/19 12:00	1330-20-7	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		04/16/19 12:00	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		04/16/19 12:00	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		04/16/19 12:00	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		04/16/19 12:00	104-51-8	
n-Hexane	**<1.7**	ug/L	5.7	1.7	1		04/16/19 12:00	110-54-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		04/16/19 12:00	103-65-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		04/16/19 12:00	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		04/16/19 12:00	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		04/16/19 12:00	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		04/16/19 12:00	98-06-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		04/16/19 12:00	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		04/16/19 12:00	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		04/16/19 12:00	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		04/16/19 12:00	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		04/16/19 12:00	2037-26-5	

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ANALYTICAL RESULTS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40185823

Sample: TRIP BLANK **Lab ID: 40185823018** Collected: 04/08/19 00:00 Received: 04/13/19 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		04/16/19 11:15	630-20-6	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/16/19 11:15	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/16/19 11:15	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/16/19 11:15	79-00-5	
1,1,2-Trichlorotrifluoroethane	**<0.54**	ug/L	5.0	0.54	1		04/16/19 11:15	76-13-1	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		04/16/19 11:15	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		04/16/19 11:15	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		04/16/19 11:15	563-58-6	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		04/16/19 11:15	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		04/16/19 11:15	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		04/16/19 11:15	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/16/19 11:15	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		04/16/19 11:15	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		04/16/19 11:15	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/16/19 11:15	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		04/16/19 11:15	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		04/16/19 11:15	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/16/19 11:15	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		04/16/19 11:15	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		04/16/19 11:15	142-28-9	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		04/16/19 11:15	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		04/16/19 11:15	594-20-7	
2-Butanone (MEK)	**<2.9**	ug/L	20.0	2.9	1		04/16/19 11:15	78-93-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		04/16/19 11:15	95-49-8	
2-Hexanone	**<2.5**	ug/L	8.2	2.5	1		04/16/19 11:15	591-78-6	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		04/16/19 11:15	106-43-4	
4-Methyl-2-pentanone (MIBK)	**<1.5**	ug/L	5.1	1.5	1		04/16/19 11:15	108-10-1	
Acetone	**<2.7**	ug/L	20.0	2.7	1		04/16/19 11:15	67-64-1	
Benzene	**<0.25**	ug/L	1.0	0.25	1		04/16/19 11:15	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		04/16/19 11:15	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		04/16/19 11:15	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		04/16/19 11:15	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		04/16/19 11:15	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		04/16/19 11:15	74-83-9	
Carbon disulfide	**<0.37**	ug/L	5.0	0.37	1		04/16/19 11:15	75-15-0	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		04/16/19 11:15	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/16/19 11:15	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		04/16/19 11:15	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/16/19 11:15	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		04/16/19 11:15	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		04/16/19 11:15	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		04/16/19 11:15	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		04/16/19 11:15	75-71-8	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		04/16/19 11:15	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		04/16/19 11:15	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		04/16/19 11:15	87-68-3	

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ANALYTICAL RESULTS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40185823

Sample: TRIP BLANK **Lab ID: 40185823018** Collected: 04/08/19 00:00 Received: 04/13/19 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		04/16/19 11:15	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		04/16/19 11:15	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		04/16/19 11:15	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		04/16/19 11:15	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		04/16/19 11:15	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/16/19 11:15	127-18-4	
Tetrahydrofuran	**<2.3**	ug/L	20.0	2.3	1		04/16/19 11:15	109-99-9	
Toluene	**<0.17**	ug/L	5.0	0.17	1		04/16/19 11:15	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/16/19 11:15	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/16/19 11:15	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/16/19 11:15	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/16/19 11:15	1330-20-7	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		04/16/19 11:15	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		04/16/19 11:15	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		04/16/19 11:15	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		04/16/19 11:15	104-51-8	
n-Hexane	**<1.7**	ug/L	5.7	1.7	1		04/16/19 11:15	110-54-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		04/16/19 11:15	103-65-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		04/16/19 11:15	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		04/16/19 11:15	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		04/16/19 11:15	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		04/16/19 11:15	98-06-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		04/16/19 11:15	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		04/16/19 11:15	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		04/16/19 11:15	460-00-4	
Dibromofluoromethane (S)	110	%	70-130		1		04/16/19 11:15	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		04/16/19 11:15	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40185823

QC Batch: 318400 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40185823002, 40185823003, 40185823004, 40185823005, 40185823006, 40185823007, 40185823008, 40185823009, 40185823010, 40185823011, 40185823012, 40185823013, 40185823014, 40185823015, 40185823016, 40185823017, 40185823018

METHOD BLANK: 1850796 Matrix: Water
Associated Lab Samples: 40185823002, 40185823003, 40185823004, 40185823005, 40185823006, 40185823007, 40185823008, 40185823009, 40185823010, 40185823011, 40185823012, 40185823013, 40185823014, 40185823015, 40185823016, 40185823017, 40185823018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	04/16/19 06:46	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	04/16/19 06:46	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	04/16/19 06:46	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	04/16/19 06:46	
1,1,2-Trichlorotrifluoroethane	ug/L	<0.54	5.0	04/16/19 06:46	
1,1-Dichloroethane	ug/L	<0.27	1.0	04/16/19 06:46	
1,1-Dichloroethene	ug/L	<0.24	1.0	04/16/19 06:46	
1,1-Dichloropropene	ug/L	<0.54	1.8	04/16/19 06:46	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	04/16/19 06:46	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	04/16/19 06:46	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	04/16/19 06:46	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	04/16/19 06:46	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	04/16/19 06:46	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	04/16/19 06:46	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	04/16/19 06:46	
1,2-Dichloroethane	ug/L	<0.28	1.0	04/16/19 06:46	
1,2-Dichloropropane	ug/L	<0.28	1.0	04/16/19 06:46	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	04/16/19 06:46	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	04/16/19 06:46	
1,3-Dichloropropane	ug/L	<0.83	2.8	04/16/19 06:46	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	04/16/19 06:46	
2,2-Dichloropropane	ug/L	<2.3	7.6	04/16/19 06:46	
2-Butanone (MEK)	ug/L	<2.9	20.0	04/16/19 06:46	
2-Chlorotoluene	ug/L	<0.93	5.0	04/16/19 06:46	
2-Hexanone	ug/L	<2.5	8.2	04/16/19 06:46	
4-Chlorotoluene	ug/L	<0.76	2.5	04/16/19 06:46	
4-Methyl-2-pentanone (MIBK)	ug/L	<1.5	5.1	04/16/19 06:46	
Acetone	ug/L	<2.7	20.0	04/16/19 06:46	
Benzene	ug/L	<0.25	1.0	04/16/19 06:46	
Bromobenzene	ug/L	<0.24	1.0	04/16/19 06:46	
Bromochloromethane	ug/L	<0.36	5.0	04/16/19 06:46	
Bromodichloromethane	ug/L	<0.36	1.2	04/16/19 06:46	
Bromoform	ug/L	<4.0	13.2	04/16/19 06:46	
Bromomethane	ug/L	<0.97	5.0	04/16/19 06:46	
Carbon disulfide	ug/L	<0.37	5.0	04/16/19 06:46	
Carbon tetrachloride	ug/L	<0.17	1.0	04/16/19 06:46	
Chlorobenzene	ug/L	<0.71	2.4	04/16/19 06:46	
Chloroethane	ug/L	<1.3	5.0	04/16/19 06:46	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40185823

METHOD BLANK: 1850796 Matrix: Water

Associated Lab Samples: 40185823002, 40185823003, 40185823004, 40185823005, 40185823006, 40185823007, 40185823008, 40185823009, 40185823010, 40185823011, 40185823012, 40185823013, 40185823014, 40185823015, 40185823016, 40185823017, 40185823018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloroform	ug/L	<1.3	5.0	04/16/19 06:46	
Chloromethane	ug/L	<2.2	7.3	04/16/19 06:46	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	04/16/19 06:46	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	04/16/19 06:46	
Dibromochloromethane	ug/L	<2.6	8.7	04/16/19 06:46	
Dibromomethane	ug/L	<0.94	3.1	04/16/19 06:46	
Dichlorodifluoromethane	ug/L	<0.50	5.0	04/16/19 06:46	
Diisopropyl ether	ug/L	<1.9	6.3	04/16/19 06:46	
Ethylbenzene	ug/L	<0.22	1.0	04/16/19 06:46	
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	04/16/19 06:46	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	04/16/19 06:46	
m&p-Xylene	ug/L	<0.47	2.0	04/16/19 06:46	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	04/16/19 06:46	
Methylene Chloride	ug/L	<0.58	5.0	04/16/19 06:46	
n-Butylbenzene	ug/L	<0.71	2.4	04/16/19 06:46	
n-Hexane	ug/L	<1.7	5.7	04/16/19 06:46	
n-Propylbenzene	ug/L	<0.81	5.0	04/16/19 06:46	
Naphthalene	ug/L	<1.2	5.0	04/16/19 06:46	
o-Xylene	ug/L	<0.26	1.0	04/16/19 06:46	
p-Isopropyltoluene	ug/L	<0.80	2.7	04/16/19 06:46	
sec-Butylbenzene	ug/L	<0.85	5.0	04/16/19 06:46	
Styrene	ug/L	<0.47	1.6	04/16/19 06:46	
tert-Butylbenzene	ug/L	<0.30	1.0	04/16/19 06:46	
Tetrachloroethene	ug/L	<0.33	1.1	04/16/19 06:46	
Tetrahydrofuran	ug/L	<2.3	20.0	04/16/19 06:46	
Toluene	ug/L	<0.17	5.0	04/16/19 06:46	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	04/16/19 06:46	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	04/16/19 06:46	
Trichloroethene	ug/L	<0.26	1.0	04/16/19 06:46	
Trichlorofluoromethane	ug/L	<0.21	1.0	04/16/19 06:46	
Vinyl chloride	ug/L	<0.17	1.0	04/16/19 06:46	
Xylene (Total)	ug/L	<1.5	3.0	04/16/19 06:46	
4-Bromofluorobenzene (S)	%	89	70-130	04/16/19 06:46	
Dibromofluoromethane (S)	%	106	70-130	04/16/19 06:46	
Toluene-d8 (S)	%	97	70-130	04/16/19 06:46	

LABORATORY CONTROL SAMPLE: 1850797

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	53.7	107	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	47.6	95	70-130	
1,1,2-Trichloroethane	ug/L	50	51.0	102	70-130	

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QUALITY CONTROL DATA

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40185823

LABORATORY CONTROL SAMPLE: 1850797

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,2-Trichlorotrifluoroethane	ug/L	50	60.6	121	50-150	
1,1-Dichloroethane	ug/L	50	53.9	108	73-150	
1,1-Dichloroethene	ug/L	50	57.2	114	73-138	
1,2,4-Trichlorobenzene	ug/L	50	51.0	102	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	40.0	80	64-129	
1,2-Dibromoethane (EDB)	ug/L	50	50.9	102	70-130	
1,2-Dichlorobenzene	ug/L	50	51.8	104	70-130	
1,2-Dichloroethane	ug/L	50	54.6	109	75-140	
1,2-Dichloropropane	ug/L	50	52.6	105	73-135	
1,3-Dichlorobenzene	ug/L	50	50.6	101	70-130	
1,4-Dichlorobenzene	ug/L	50	51.5	103	70-130	
Benzene	ug/L	50	54.4	109	70-130	
Bromodichloromethane	ug/L	50	51.2	102	70-130	
Bromoform	ug/L	50	52.4	105	68-129	
Bromomethane	ug/L	50	57.7	115	18-159	
Carbon disulfide	ug/L	50	55.1	110	69-132	
Carbon tetrachloride	ug/L	50	58.2	116	70-130	
Chlorobenzene	ug/L	50	53.9	108	70-130	
Chloroethane	ug/L	50	58.7	117	53-147	
Chloroform	ug/L	50	52.7	105	74-136	
Chloromethane	ug/L	50	40.4	81	29-115	
cis-1,2-Dichloroethene	ug/L	50	54.1	108	70-130	
cis-1,3-Dichloropropene	ug/L	50	46.8	94	70-130	
Dibromochloromethane	ug/L	50	47.1	94	70-130	
Dichlorodifluoromethane	ug/L	50	41.8	84	10-130	
Ethylbenzene	ug/L	50	53.4	107	80-124	
Isopropylbenzene (Cumene)	ug/L	50	54.8	110	70-130	
m&p-Xylene	ug/L	100	110	110	70-130	
Methyl-tert-butyl ether	ug/L	50	40.3	81	54-137	
Methylene Chloride	ug/L	50	58.4	117	73-138	
o-Xylene	ug/L	50	53.1	106	70-130	
Styrene	ug/L	50	52.2	104	70-130	
Tetrachloroethene	ug/L	50	54.4	109	70-130	
Toluene	ug/L	50	53.7	107	80-126	
trans-1,2-Dichloroethene	ug/L	50	53.2	106	73-145	
trans-1,3-Dichloropropene	ug/L	50	44.2	88	70-130	
Trichloroethene	ug/L	50	54.9	110	70-130	
Trichlorofluoromethane	ug/L	50	57.7	115	76-147	
Vinyl chloride	ug/L	50	46.3	93	51-120	
Xylene (Total)	ug/L	150	163	109	70-130	
4-Bromofluorobenzene (S)	%			95	70-130	
Dibromofluoromethane (S)	%			106	70-130	
Toluene-d8 (S)	%			99	70-130	

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QUALITY CONTROL DATA

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40185823

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1850798 1850799

Parameter	Units	40185823011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.24	50	50	49.7	52.4	99	105	70-130	5	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	47.0	47.6	94	95	70-130	1	20	
1,1,2-Trichloroethane	ug/L	<0.55	50	50	51.4	53.0	103	106	70-137	3	20	
1,1,2-Trichlorotrifluoroethane	ug/L	<0.54	50	50	55.5	58.9	111	118	50-150	6	20	
1,1-Dichloroethane	ug/L	<0.27	50	50	50.7	51.3	101	103	73-153	1	20	
1,1-Dichloroethene	ug/L	<0.24	50	50	52.2	53.7	104	107	73-138	3	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	50.9	53.0	102	106	70-130	4	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	39.4	42.9	79	86	58-129	9	20	
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	51.4	50.8	103	102	70-130	1	20	
1,2-Dichlorobenzene	ug/L	<0.71	50	50	50.5	51.1	101	102	70-130	1	20	
1,2-Dichloroethane	ug/L	<0.28	50	50	52.9	54.7	106	109	75-140	3	20	
1,2-Dichloropropane	ug/L	<0.28	50	50	50.2	52.0	100	104	71-138	4	20	
1,3-Dichlorobenzene	ug/L	<0.63	50	50	49.0	50.1	98	100	70-130	2	20	
1,4-Dichlorobenzene	ug/L	<0.94	50	50	50.5	51.8	101	104	70-130	3	20	
Benzene	ug/L	<0.25	50	50	53.2	53.3	106	107	70-130	0	20	
Bromodichloromethane	ug/L	<0.36	50	50	50.1	53.3	100	107	70-130	6	20	
Bromoform	ug/L	<4.0	50	50	52.7	52.5	105	105	68-129	0	20	
Bromomethane	ug/L	<0.97	50	50	57.7	62.2	115	124	15-170	7	20	
Carbon disulfide	ug/L	<0.37	50	50	52.9	53.2	106	106	66-145	1	20	
Carbon tetrachloride	ug/L	<0.17	50	50	53.9	56.4	108	113	70-130	5	20	
Chlorobenzene	ug/L	<0.71	50	50	53.3	55.4	107	111	70-130	4	20	
Chloroethane	ug/L	<1.3	50	50	52.5	53.6	105	107	51-148	2	20	
Chloroform	ug/L	<1.3	50	50	49.2	50.0	98	100	74-136	2	20	
Chloromethane	ug/L	<2.2	50	50	36.4	37.7	73	75	23-115	3	20	
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	49.5	48.9	99	98	70-131	1	20	
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	46.8	49.4	94	99	70-130	5	20	
Dibromochloromethane	ug/L	<2.6	50	50	48.4	49.3	97	99	70-130	2	20	
Dichlorodifluoromethane	ug/L	<0.50	50	50	37.0	40.0	74	80	10-132	8	20	
Ethylbenzene	ug/L	<0.22	50	50	52.2	54.8	104	110	80-125	5	20	
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	53.1	55.3	106	111	70-130	4	20	
m&p-Xylene	ug/L	<0.47	100	100	107	111	107	111	70-130	4	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	41.0	41.2	82	82	51-145	1	20	
Methylene Chloride	ug/L	<0.58	50	50	55.5	56.3	111	113	73-140	1	20	
o-Xylene	ug/L	<0.26	50	50	53.0	54.1	106	108	70-130	2	20	
Styrene	ug/L	<0.47	50	50	52.1	52.5	104	105	70-130	1	20	
Tetrachloroethene	ug/L	<0.33	50	50	55.3	53.3	111	107	70-130	4	20	
Toluene	ug/L	<0.17	50	50	52.5	53.4	105	107	80-131	2	20	
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	51.4	50.8	103	102	73-148	1	20	
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	45.0	46.3	90	93	70-130	3	20	
Trichloroethene	ug/L	<0.26	50	50	52.3	54.3	105	109	70-130	4	20	
Trichlorofluoromethane	ug/L	<0.21	50	50	54.5	54.0	109	108	74-147	1	20	
Vinyl chloride	ug/L	<0.17	50	50	45.2	45.1	90	90	41-129	0	20	
Xylene (Total)	ug/L	<1.5	150	150	160	166	107	110	70-130	3	20	
4-Bromofluorobenzene (S)	%						97	98	70-130			
Dibromofluoromethane (S)	%						105	103	70-130			

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(920)469-2436

QUALITY CONTROL DATA

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40185823

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1850798 1850799

Parameter	Units	40185823011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Toluene-d8 (S)	%						101	99	70-130			

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QUALITY CONTROL DATA

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40185823

QC Batch: 318571 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40185823001

METHOD BLANK: 1851327 Matrix: Water
Associated Lab Samples: 40185823001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	04/17/19 07:00	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	04/17/19 07:00	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	04/17/19 07:00	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	04/17/19 07:00	
1,1,2-Trichlorotrifluoroethane	ug/L	<0.54	5.0	04/17/19 07:00	
1,1-Dichloroethane	ug/L	<0.27	1.0	04/17/19 07:00	
1,1-Dichloroethene	ug/L	<0.24	1.0	04/17/19 07:00	
1,1-Dichloropropene	ug/L	<0.54	1.8	04/17/19 07:00	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	04/17/19 07:00	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	04/17/19 07:00	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	04/17/19 07:00	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	04/17/19 07:00	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	04/17/19 07:00	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	04/17/19 07:00	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	04/17/19 07:00	
1,2-Dichloroethane	ug/L	<0.28	1.0	04/17/19 07:00	
1,2-Dichloropropane	ug/L	<0.28	1.0	04/17/19 07:00	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	04/17/19 07:00	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	04/17/19 07:00	
1,3-Dichloropropane	ug/L	<0.83	2.8	04/17/19 07:00	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	04/17/19 07:00	
2,2-Dichloropropane	ug/L	<2.3	7.6	04/17/19 07:00	
2-Butanone (MEK)	ug/L	<2.9	20.0	04/17/19 07:00	
2-Chlorotoluene	ug/L	<0.93	5.0	04/17/19 07:00	
2-Hexanone	ug/L	<2.5	8.2	04/17/19 07:00	
4-Chlorotoluene	ug/L	<0.76	2.5	04/17/19 07:00	
4-Methyl-2-pentanone (MIBK)	ug/L	<1.5	5.1	04/17/19 07:00	
Acetone	ug/L	<2.7	20.0	04/17/19 07:00	
Benzene	ug/L	<0.25	1.0	04/17/19 07:00	
Bromobenzene	ug/L	<0.24	1.0	04/17/19 07:00	
Bromochloromethane	ug/L	<0.36	5.0	04/17/19 07:00	
Bromodichloromethane	ug/L	<0.36	1.2	04/17/19 07:00	
Bromoform	ug/L	<4.0	13.2	04/17/19 07:00	
Bromomethane	ug/L	<0.97	5.0	04/17/19 07:00	
Carbon disulfide	ug/L	<0.37	5.0	04/17/19 07:00	
Carbon tetrachloride	ug/L	<0.17	1.0	04/17/19 07:00	
Chlorobenzene	ug/L	<0.71	2.4	04/17/19 07:00	
Chloroethane	ug/L	<1.3	5.0	04/17/19 07:00	
Chloroform	ug/L	<1.3	5.0	04/17/19 07:00	
Chloromethane	ug/L	<2.2	7.3	04/17/19 07:00	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	04/17/19 07:00	

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QUALITY CONTROL DATA

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40185823

METHOD BLANK: 1851327 Matrix: Water
Associated Lab Samples: 40185823001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	04/17/19 07:00	
Dibromochloromethane	ug/L	<2.6	8.7	04/17/19 07:00	
Dibromomethane	ug/L	<0.94	3.1	04/17/19 07:00	
Dichlorodifluoromethane	ug/L	<0.50	5.0	04/17/19 07:00	
Diisopropyl ether	ug/L	<1.9	6.3	04/17/19 07:00	
Ethylbenzene	ug/L	<0.22	1.0	04/17/19 07:00	
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	04/17/19 07:00	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	04/17/19 07:00	
m&p-Xylene	ug/L	<0.47	2.0	04/17/19 07:00	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	04/17/19 07:00	
Methylene Chloride	ug/L	<0.58	5.0	04/17/19 07:00	
n-Butylbenzene	ug/L	<0.71	2.4	04/17/19 07:00	
n-Hexane	ug/L	<1.7	5.7	04/17/19 07:00	
n-Propylbenzene	ug/L	<0.81	5.0	04/17/19 07:00	
Naphthalene	ug/L	<1.2	5.0	04/17/19 07:00	
o-Xylene	ug/L	<0.26	1.0	04/17/19 07:00	
p-Isopropyltoluene	ug/L	<0.80	2.7	04/17/19 07:00	
sec-Butylbenzene	ug/L	<0.85	5.0	04/17/19 07:00	
Styrene	ug/L	<0.47	1.6	04/17/19 07:00	
tert-Butylbenzene	ug/L	<0.30	1.0	04/17/19 07:00	
Tetrachloroethene	ug/L	<0.33	1.1	04/17/19 07:00	
Tetrahydrofuran	ug/L	<2.3	20.0	04/17/19 07:00	
Toluene	ug/L	<0.17	5.0	04/17/19 07:00	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	04/17/19 07:00	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	04/17/19 07:00	
Trichloroethene	ug/L	<0.26	1.0	04/17/19 07:00	
Trichlorofluoromethane	ug/L	<0.21	1.0	04/17/19 07:00	
Vinyl chloride	ug/L	<0.17	1.0	04/17/19 07:00	
Xylene (Total)	ug/L	<1.5	3.0	04/17/19 07:00	
4-Bromofluorobenzene (S)	%	90	70-130	04/17/19 07:00	
Dibromofluoromethane (S)	%	100	70-130	04/17/19 07:00	
Toluene-d8 (S)	%	103	70-130	04/17/19 07:00	

LABORATORY CONTROL SAMPLE: 1851328

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	53.1	106	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	52.8	106	70-130	
1,1,2-Trichloroethane	ug/L	50	51.8	104	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	50	43.1	86	50-150	
1,1-Dichloroethane	ug/L	50	46.4	93	73-150	
1,1-Dichloroethene	ug/L	50	43.3	87	73-138	
1,2,4-Trichlorobenzene	ug/L	50	43.9	88	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	49.4	99	64-129	

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QUALITY CONTROL DATA

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40185823

LABORATORY CONTROL SAMPLE: 1851328

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	50	49.9	100	70-130	
1,2-Dichlorobenzene	ug/L	50	50.2	100	70-130	
1,2-Dichloroethane	ug/L	50	48.6	97	75-140	
1,2-Dichloropropane	ug/L	50	52.3	105	73-135	
1,3-Dichlorobenzene	ug/L	50	49.6	99	70-130	
1,4-Dichlorobenzene	ug/L	50	51.6	103	70-130	
Benzene	ug/L	50	51.4	103	70-130	
Bromodichloromethane	ug/L	50	50.4	101	70-130	
Bromoform	ug/L	50	49.8	100	68-129	
Bromomethane	ug/L	50	40.7	81	18-159	
Carbon disulfide	ug/L	50	45.9	92	69-132	
Carbon tetrachloride	ug/L	50	48.9	98	70-130	
Chlorobenzene	ug/L	50	49.2	98	70-130	
Chloroethane	ug/L	50	41.2	82	53-147	
Chloroform	ug/L	50	49.2	98	74-136	
Chloromethane	ug/L	50	41.1	82	29-115	
cis-1,2-Dichloroethene	ug/L	50	44.1	88	70-130	
cis-1,3-Dichloropropene	ug/L	50	52.1	104	70-130	
Dibromochloromethane	ug/L	50	50.5	101	70-130	
Dichlorodifluoromethane	ug/L	50	33.8	68	10-130	
Ethylbenzene	ug/L	50	52.9	106	80-124	
Isopropylbenzene (Cumene)	ug/L	50	53.3	107	70-130	
m&p-Xylene	ug/L	100	104	104	70-130	
Methyl-tert-butyl ether	ug/L	50	44.2	88	54-137	
Methylene Chloride	ug/L	50	43.8	88	73-138	
o-Xylene	ug/L	50	52.1	104	70-130	
Styrene	ug/L	50	49.2	98	70-130	
Tetrachloroethene	ug/L	50	49.4	99	70-130	
Toluene	ug/L	50	50.9	102	80-126	
trans-1,2-Dichloroethene	ug/L	50	44.4	89	73-145	
trans-1,3-Dichloropropene	ug/L	50	47.5	95	70-130	
Trichloroethene	ug/L	50	51.5	103	70-130	
Trichlorofluoromethane	ug/L	50	44.0	88	76-147	
Vinyl chloride	ug/L	50	43.7	87	51-120	
Xylene (Total)	ug/L	150	156	104	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Dibromofluoromethane (S)	%			99	70-130	
Toluene-d8 (S)	%			95	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1851329 1851330

Parameter	Units	40185823001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.24	50	50	53.0	53.6	106	107	70-130	1	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	49.9	54.3	100	109	70-130	8	20	

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QUALITY CONTROL DATA

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40185823

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1851329 1851330

Parameter	Units	40185823001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,2-Trichloroethane	ug/L	<0.55	50	50	53.6	52.2	107	104	70-137	3	20	
1,1,2-Trichlorotrifluoroethane	ug/L	<0.54	50	50	41.9	45.7	84	91	50-150	9	20	
1,1-Dichloroethane	ug/L	<0.27	50	50	47.3	49.9	95	100	73-153	5	20	
1,1-Dichloroethene	ug/L	<0.24	50	50	43.6	47.6	87	95	73-138	9	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	42.9	43.2	86	86	70-130	1	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	50.7	50.8	101	102	58-129	0	20	
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	52.4	50.7	105	101	70-130	3	20	
1,2-Dichlorobenzene	ug/L	<0.71	50	50	48.5	52.1	97	104	70-130	7	20	
1,2-Dichloroethane	ug/L	<0.28	50	50	49.9	51.7	100	103	75-140	4	20	
1,2-Dichloropropane	ug/L	<0.28	50	50	53.4	52.4	107	105	71-138	2	20	
1,3-Dichlorobenzene	ug/L	<0.63	50	50	46.7	50.7	93	101	70-130	8	20	
1,4-Dichlorobenzene	ug/L	<0.94	50	50	49.7	53.5	99	107	70-130	7	20	
Benzene	ug/L	<0.25	50	50	51.3	52.2	103	104	70-130	2	20	
Bromodichloromethane	ug/L	<0.36	50	50	52.0	50.9	104	102	70-130	2	20	
Bromoform	ug/L	<4.0	50	50	52.3	50.5	105	101	68-129	4	20	
Bromomethane	ug/L	<0.97	50	50	40.0	45.2	80	90	15-170	12	20	
Carbon disulfide	ug/L	<0.37	50	50	46.0	50.7	91	101	66-145	10	20	
Carbon tetrachloride	ug/L	<0.17	50	50	47.9	48.7	96	97	70-130	2	20	
Chlorobenzene	ug/L	<0.71	50	50	51.4	50.1	103	100	70-130	3	20	
Chloroethane	ug/L	<1.3	50	50	40.7	46.3	81	93	51-148	13	20	
Chloroform	ug/L	<1.3	50	50	50.8	51.3	102	103	74-136	1	20	
Chloromethane	ug/L	<2.2	50	50	40.1	45.6	80	91	23-115	13	20	
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	43.9	47.2	88	94	70-131	7	20	
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	53.3	51.7	107	103	70-130	3	20	
Dibromochloromethane	ug/L	<2.6	50	50	54.3	52.0	109	104	70-130	4	20	
Dichlorodifluoromethane	ug/L	<0.50	50	50	31.9	35.2	64	70	10-132	10	20	
Ethylbenzene	ug/L	<0.22	50	50	54.6	52.5	109	105	80-125	4	20	
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	55.0	52.5	110	105	70-130	5	20	
m&p-Xylene	ug/L	<0.47	100	100	109	102	109	102	70-130	7	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	44.9	48.1	90	96	51-145	7	20	
Methylene Chloride	ug/L	<0.58	50	50	44.0	47.6	88	95	73-140	8	20	
o-Xylene	ug/L	<0.26	50	50	53.9	52.4	108	105	70-130	3	20	
Styrene	ug/L	<0.47	50	50	49.9	46.3	100	93	70-130	7	20	
Tetrachloroethene	ug/L	17.1	50	50	67.7	65.0	101	96	70-130	4	20	
Toluene	ug/L	<0.17	50	50	53.8	52.1	108	104	80-131	3	20	
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	44.8	48.6	90	97	73-148	8	20	
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	49.2	47.1	98	94	70-130	4	20	
Trichloroethene	ug/L	<0.26	50	50	51.8	52.2	104	104	70-130	1	20	
Trichlorofluoromethane	ug/L	<0.21	50	50	43.0	47.1	86	94	74-147	9	20	
Vinyl chloride	ug/L	<0.17	50	50	43.8	47.5	88	95	41-129	8	20	
Xylene (Total)	ug/L	<1.5	150	150	163	154	109	103	70-130	6	20	
4-Bromofluorobenzene (S)	%						100	94	70-130			
Dibromofluoromethane (S)	%						99	101	70-130			
Toluene-d8 (S)	%						98	97	70-130			

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QUALIFIERS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40185823

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40185823

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40185823001	**MW-2D**	EPA 8260	318571		
40185823002	**MW-3D**	EPA 8260	318400		
40185823003	**MW-3D2**	EPA 8260	318400		
40185823004	**MW-4D2**	EPA 8260	318400		
40185823005	**MW-5D**	EPA 8260	318400		
40185823006	**MW-5D2**	EPA 8260	318400		
40185823007	**MW-5D3**	EPA 8260	318400		
40185823008	**MW-6D**	EPA 8260	318400		
40185823009	**MW-9D2**	EPA 8260	318400		
40185823010	**MW-17**	EPA 8260	318400		
40185823011	**MW-25D2**	EPA 8260	318400		
40185823012	**MW-27D**	EPA 8260	318400		
40185823013	**MP-14 (135-140)**	EPA 8260	318400		
40185823014	**MP-16 (140-144)**	EPA 8260	318400		
40185823015	**DUP-01**	EPA 8260	318400		
40185823016	**DUP-03**	EPA 8260	318400		
40185823017	**FB-01**	EPA 8260	318400		
40185823018	**TRIP BLANK**	EPA 8260	318400		

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Pace Analytical®
ECCS Mobile Lab Services

SUBCONTRACT ORDER

Pace Analytical - Madison

A191520

401858 J

SENDING LABORATORY:

Pace Analytical - Madison
2525 Advance Road
Madison, WI 53718
Phone: 608.221.8700
Fax: 608,221,4889
Project Manager: Jessica Esser

RECEIVING LABORATORY:

Pace Analytical
1241 Bellevue Street, Suite 9
Green Bay, WI 54302
Phone :(920) 469-2436
Fax: (920) 469-8827

Turn around Time: X Normal Due 04-26-19
_____ Rush

Project Name: Madison Kipp Corporation - Madison, WI

Analysis	Due	Expires	Laboratory ID	Comments
001 **MW-2D**	**Lab ID: A191520-01 Water**	**Sampled: 04/12/2019 14:28**		
8260 WI Full List	04/26/2019 00:00	04/26/2019 14:28		
Containers Supplied:				
07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-]				
002 **MW-3D**	**Lab ID: A191520-02 Water**	**Sampled: 04/09/2019 15:53**		
8260 WI Full List	04/26/2019 00:00	04/23/2019 15:53		
Containers Supplied:				
07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-]				
003 **MW-3D2**	**Lab ID: A191520-03 Water**	**Sampled: 04/09/2019 16:41**		
8260 WI Full List	04/26/2019 00:00	04/23/2019 16:41		
Containers Supplied:				
07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-]				
004 **MW-4D2**	**Lab ID: A191520-04 Water**	**Sampled: 04/11/2019 12:52**		
8260 WI Full List	04/26/2019 00:00	04/25/2019 12:52		
Containers Supplied:				
07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-]				
005 **MW-5D**	**Lab ID: A191520-05 Water**	**Sampled: 04/08/2019 15:36**		
8260 WI Full List	04/26/2019 00:00	04/22/2019 15:36		
Containers Supplied:				
07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-]				
006 **MW-5D2**	**Lab ID: A191520-06 Water**	**Sampled: 04/10/2019 16:17**		
8260 WI Full List	04/26/2019 00:00	04/24/2019 16:17		
Containers Supplied:				
07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-]				

Jessica Esser	04-12-19 1630		
Released By	Date	Received By	Date
CS Logistics	4/13/19 0825	Stuart Uhle	4-13-19 0825
Released By	Date	Received By	Date

401858 J

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ECCS Mobile Lab Services

SUBCONTRACT ORDER

Pace Analytical - Madison

A191520

Analysis	Due	Expires	Laboratory ID	Comments
007				
MW-5D3	**Lab ID: A191520-07 Water**	**Sampled: 04/10/2019 14:26**		
8260 WI Full List	04/26/2019 00:00	04/24/2019 14:26		
Containers Supplied:				
07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-]				
008				
MW-6D	**Lab ID: A191520-08 Water**	**Sampled: 04/11/2019 16:40**		
8260 WI Full List	04/26/2019 00:00	04/25/2019 16:40		
Containers Supplied:				
07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-]				
009				
MW-9D2	**Lab ID: A191520-09 Water**	**Sampled: 04/09/2019 11:23**		
8260 WI Full List	04/26/2019 00:00	04/23/2019 11:23		
Containers Supplied:				
07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-]				
010				
MW-17	**Lab ID: A191520-10 Water**	**Sampled: 04/11/2019 16:22**		
8260 WI Full List	04/26/2019 00:00	04/25/2019 16:22		
Containers Supplied:				
07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-]				
011				
MW-25D2	**Lab ID: A191520-11 Water**	**Sampled: 04/10/2019 10:44**		
8260 WI Full List	04/26/2019 00:00	04/24/2019 10:44		
Containers Supplied:				
07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-]				
012				
MW-27D	**Lab ID: A191520-12 Water**	**Sampled: 04/10/2019 12:54**		
8260 WI Full List	04/26/2019 00:00	04/24/2019 12:54		
Containers Supplied:				
07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-]				
013				
MP-14 (135-140)	**Lab ID: A191520-13 Water**	**Sampled: 04/08/2019 13:50**		
8260 WI Full List	04/26/2019 00:00	04/22/2019 13:50		
Containers Supplied:				
07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-]				
014				
MP-16 (140-144)	**Lab ID: A191520-14 Water**	**Sampled: 04/08/2019 11:30**		
8260 WI Full List	04/26/2019 00:00	04/22/2019 11:30		
Containers Supplied:				
07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-]				

Jessica Esse 04-12-19 1630
Released By Date Received By Date

Released By 4-13-19 0825 Received By Pace 4/13/19 0825
Date Date

Pace Analytical®
ECCS Mobile Lab Services

SUBCONTRACT ORDER

Pace Analytical - Madison

A191520

4618583

Analysis	Due	Expires	Laboratory ID	Comments
015 **DUP-01**	**Lab ID: A191520-15 Water**	**Sampled: 04/09/2019 00:00**	[redacted]	
8260 WI Full List	04/26/2019 00:00	04/23/2019 00:00		
Containers Supplied:				
07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-]				
016 **DUP-03**	**Lab ID: A191520-16 Water**	**Sampled: 04/11/2019 00:00**	[redacted]	
8260 WI Full List	04/26/2019 00:00	04/25/2019 00:00		
Containers Supplied:				
07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-]				
017 **FB-01**	**Lab ID: A191520-17 Water**	**Sampled: 04/12/2019 14:30**	[redacted]	
8260 WI Full List	04/26/2019 00:00	04/26/2019 14:30		
Containers Supplied:				
07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-]				
018 **Trip Blank**	**Lab ID: A191520-18 Water**	**Sampled: 04/08/2019 00:00**	[redacted]	
8260 WI Full List	04/26/2019 00:00	04/22/2019 00:00		
Containers Supplied:				
07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-]				
019 **MW-3D**	**Lab ID: A191520-19 Water**	**Sampled: 04/09/2019 15:53**	[redacted]	
2540D - Suspended Solids	04/26/2019 00:00	04/16/2019 15:53		
Subcontracted Analysis - Pace	04/26/2019 00:00	04/23/2019 15:53		Dissolved Solids, Total
Containers Supplied:				
14_1000mL Plastic Cool t				
020 **MW-4S**	**Lab ID: A191520-20 Water**	**Sampled: 04/11/2019 12:57**	[redacted]	
2540D - Suspended Solids	04/26/2019 00:00	04/18/2019 12:57		
Subcontracted Analysis - Pace	04/26/2019 00:00	04/25/2019 12:57		Dissolved Solids, Total
Containers Supplied:				
14_1000mL Plastic Cool t				
021 **MW-4D**	**Lab ID: A191520-21 Water**	**Sampled: 04/11/2019 14:31**	[redacted]	
Subcontracted Analysis - Pace	04/26/2019 00:00	04/25/2019 14:31		Dissolved Solids, Total
2540D - Suspended Solids	04/26/2019 00:00	04/18/2019 14:31		
Containers Supplied:				
14_1000mL Plastic Cool t				

Jessica Eddy 04-12-19 1630
Released By Date Received By Date

CS Logistics 4-13-19 0825 Susan Kelly 4-13-19 0825
Released By Date Received By Date

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SUBCONTRACT ORDER

Pace Analytical - Madison

A191520

L1055823

Analysis	Due	Expires	Laboratory ID	Comments
022				
MW-5S	**Lab ID: A191520-22 Water**	**Sampled: 04/10/2019 15:22**	[redacted]	
2540D - Suspended Solids	04/26/2019 00:00	04/17/2019 15:22		
Subcontracted Analysis - Pace	04/26/2019 00:00	04/24/2019 15:22		Dissolved Solids, Total
Containers Supplied:				
14_1000mL Plastic Cool t				
023				
MW-6S	**Lab ID: A191520-23 Water**	**Sampled: 04/12/2019 13:38**	[redacted]	
2540D - Suspended Solids	04/26/2019 00:00	04/19/2019 13:38		
Subcontracted Analysis - Pace	04/26/2019 00:00	04/26/2019 13:38		Dissolved Solids, Total
Containers Supplied:				
14_1000mL Plastic Cool t				
024				
MW-11S	**Lab ID: A191520-24 Water**	**Sampled: 04/09/2019 12:35**	[redacted]	
2540D - Suspended Solids	04/26/2019 00:00	04/16/2019 12:35		
Subcontracted Analysis - Pace	04/26/2019 00:00	04/23/2019 12:35		Dissolved Solids, Total
Containers Supplied:				
14_1000mL Plastic Cool t				
025				
MW-24	**Lab ID: A191520-25 Water**	**Sampled: 04/09/2019 14:12**	[redacted]	
2540D - Suspended Solids	04/26/2019 00:00	04/16/2019 14:12		
Subcontracted Analysis - Pace	04/26/2019 00:00	04/23/2019 14:12		Dissolved Solids, Total
Containers Supplied:				
14_1000mL Plastic Cool t				
026				
MW-28	**Lab ID: A191520-26 Water**	**Sampled: 04/12/2019 12:30**	[redacted]	
2540D - Suspended Solids	04/26/2019 00:00	04/19/2019 12:30		
Subcontracted Analysis - Pace	04/26/2019 00:00	04/26/2019 12:30		Dissolved Solids, Total
Containers Supplied:				
14_1000mL Plastic Cool t				
027				
MW-29S	**Lab ID: A191520-27 Water**	**Sampled: 04/12/2019 10:49**	[redacted]	
Subcontracted Analysis - Pace	04/26/2019 00:00	04/26/2019 10:49		Dissolved Solids, Total
2540D - Suspended Solids	04/26/2019 00:00	04/19/2019 10:49		
Containers Supplied:				
14_1000mL Plastic Cool t				

Jessica Eddy 04-12-19 1630
Released By Date Received By Date

CS Logistics 4-13-19 0825 Susan K Mylo 4-13-19 0825
Released By Date Received By Date
Pace

Analysis	Due	Expires	Laboratory ID	Comments
028				
MW-29D	**Lab ID: A191520-28 Water**	**Sampled: 04/12/2019 10:54**	[redacted]	
2540D - Suspended Solids	04/26/2019 00:00	04/19/2019 10:54		
Subcontracted Analysis - Pace	04/26/2019 00:00	04/26/2019 10:54		Dissolved Solids, Total
Containers Supplied:				
14_1000mL Plastic Cool t				
029				
DUP-01	**Lab ID: A191520-29 Water**	**Sampled: 04/09/2019 00:00**	[redacted]	
2540D - Suspended Solids	04/26/2019 00:00	04/16/2019 00:00		
Subcontracted Analysis - Pace	04/26/2019 00:00	04/23/2019 00:00		Dissolved Solids, Total
Containers Supplied:				
14_1000mL Plastic Cool t				
030				
DUP-02	**Lab ID: A191520-30 Water**	**Sampled: 04/11/2019 00:00**	[redacted]	
2540D - Suspended Solids	04/26/2019 00:00	04/18/2019 00:00		
Subcontracted Analysis - Pace	04/26/2019 00:00	04/25/2019 00:00		Dissolved Solids, Total
Containers Supplied:				
14_1000mL Plastic Cool t				
031				
FB-01	**Lab ID: A191520-31 Water**	**Sampled: 04/12/2019 14:30**	[redacted]	
Subcontracted Analysis - Pace	04/26/2019 00:00	04/26/2019 14:30		Dissolved Solids, Total
2540D - Suspended Solids	04/26/2019 00:00	04/19/2019 14:30		
Containers Supplied:				
14_1000mL Plastic Cool t				

Jessica Engel 04-12-19 1630
Released By Date Received By Date

C S Logsdon 4-13-19 0825 Susan Mylchreest Pace 4-13-19 0825
Released By Date Received By Date

4018582J

Pace Analytical - ECCS Division
2525 Advance Road
Madison, WI 53718
608-221-8700 (phone)
608-221-4889 (fax)

CHAIN OF CUSTODY

No. 10837

Page: 1 of: 4

Lab Work Order #:

Report To: Andy Stehn
Company: TRC Env.
Address 1:
Address 2:
E-mail Address:

Project Number: 323372.0000.0000 00002 PO Number: 132937
Project Name: Madison Kipp Corp
Project Location (City, State): Madison, WI

Preservation Codes
Analyses Requested

Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Wesley Bragen

Invoice To:
Company:
Address 1:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	VOCs (B)	Comments	Lab ID	Lab Receip Time
MW-2D	4/12/19	1428	W		X	MS/MSD		
MW-3D	4/9/19	1553	W		X			
MW-3D2	4/9/19	1641	W		X			
MW-4D2	4/11/19	1252	W		X			
MW-5D	4/8/19	1536	W		X			
MW-5D2	4/10/19	1617	W		X			
MW-5D3	4/10/19	1426	W		X			
MW-6D	4/11/19	1640	W		X			
MW-9D2	4/9/19	1123	W		X			
MW-17	4/11/19	1622	W		X			

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

	Date	Time		Date	Time
Relinquished By: Wesley Bragen	4/12/19	1555	Received By: [illegible]	04-12-19	1600
Relinquished By: [illegible]	04-12-19	1630	Received By:	Date:	Time:

Custody Seal: ☒ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk-In
Receipt Temp: on ice
Thermometer #/ Exp. Date:
Temp Blank: ☐ Y ☐ N

Rev. 12/15

CS Logistics 4-13-19 0825 Susan Kuyler Pace 4-13-19 0825

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Pace Analytical - ECCS Division
2525 Advance Road
Madison, WI 53718
608-221-8700 (phone)
608-221-4889 (fax)

CHAIN OF CUSTODY

No. 10838

4018583

Lab Work Order #:

Project Number: 323372.0000.0000 PO Number: 132937

Project Name: Madison Kipp Corp 00002

Project Location (City, State): Madison, WI

Turn Around (check one): ☐ Normal ☐ Rush

If Rush, Report Due Date:

Sampled By (Print): Wesley Braga

Preservation Codes

Analyses Requested

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	VOCs						Comments	Lab ID	Lab Receipt Time
MW-25D2	4/10/19	1044	W		X						MS/MSD		
MW-27D	4/10/19	1254	W		X								
MP-14 (135-140)	4/8/19	1350	W		X								
MP-16 (140-144)	4/8/19	1130	W		X								
DUP-01	4/9/19	—	W		X								
DUP-03	4/11/19	—	W		X								
FB-01	4/12/19	1430	W		X								
Trip Blank	—	—	W		X								

Report To: Andy Stehn
Company: TRC, Env.
Address 1:
Address 2:
E-mail Address:

Invoice To:
Company:
Address 2:

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

Relinquished By: [signature] Date: 4/12/19 Time: 1555 Received By: [signature] Date: 04-12-19 Time: 1600

Relinquished By: [signature] Date: 04-12-19 Time: 1630 Received By: Date: Time:

Custody Seal: ☒ NA ☐ Intact ☐ Not Intact Shipped Via: Walk-In Receipt Temp: 0°ice Thermometer #/ Exp. Date: Temp Blank: ☐ Y ☐ N

CS Logistics 4-13-19 0825 [signature] 4/13/19 0825

Rev. 12/15

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Pace Analytical - ECCS Division
2525 Advance Road
Madison, WI 53718
608-221-8700 (phone)
608-221-4889 (fax)

CHAIN OF CUSTODY

No. 10840

4018582?

Page: 3 of: 4

Lab Work Order #:

Project Number: 323372.0000.0000 PO Number: 132937
Project Name: Madison Kipp Corp 00002
Project Location (City, State): Madison, WI

Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Wesley Bragg

Report To: Andy Stehn
Company: TRC
Address 1:
Address 2:
E-mail Address:

Invoice To:
Company:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	PCBs	TDS	TSS				Comments	Lab ID	Lab Receip Time
MW-3D	4/9/19	1553	W		X	X	X						
MW-4S	4/11/19	1257	W		X	X	X						
MW-4D	4/11/19	1431	W		X	X	X						
MW-5S	4/10/19	1522	W		X	X	X				MS/MSD		
MW-6S	4/12/19	1338	W		X	X	X						
MW-11S	4/9/19	1235	W		X	X	X						
MW-24	4/9/19	1412	W		X	X	X						
MW-28	4/12/19	1230	W		X	X	X						
MW-29S	4/12/19	1049	W		X	X	X				*Extra Volume TSS/TDS		
MW-29D	4/12/19	1054	W		X	X	X						

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

	Date	Time		Date	Time
Relinquished By: Wesley Bragg	4/12/19	1555	Received By:		
Relinquished By:	04-12-19	1630	Received By:	04-12-19	1600
			Received By:	Date:	Time:

Custody Seal: ☒ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk In
Receipt Temp: on ice
Thermometer #/ Exp. Date:
Temp Blank: ☐ Y ☐ N

CS Logistics 4-13-19 0825 Susan Kilfoy 4/13/19 0825

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4018585C3

Pace Analytical - ECCS Division
2525 Advance Road
Madison, WI 53718
608-221-8700 (phone)
608-221-4889 (fax)

CHAIN OF CUSTODY

No. 10839 Page: 4 of: 4

Lab Work Order #:

Report To: Andy Stehn
Company: TRC
Address 1:
Address 2:
E-mail Address:

Project Number: 323372.0000.0000 PO Number: 132937
Project Name: Madison Kipp Corp 00002
Project Location (City, State): Madison, WI

Preservation Codes
Analyses Requested

Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Wesley Bragg

Invoice To:
Company:
Address 1:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	PCBs	TSS	TDS				Comments	Lab ID	Lab Receipt Time
DUP-01	4/9/19	—	W	3	X	X	X						
DUP-02	4/11/19	—	W	3	X	X	X						
FB-01	4/12/19	1430	W	3	X	X	X						

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

	Date	Time		Date	Time
Relinquished By: Wesley Bragg	4/12/19	1555	Received By: Jessica Eddy	04-12-19	1600
Relinquished By: Jessica Eddy	04-12-19	1630	Received By:	Date:	Time:

Custody Seal: ☒ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk-In
Receipt Temp: 0nice
Thermometer #/ Exp. Date:
Temp Blank: ☐ Y ☐ N

Rev. 12/15

CS Logistics 4/13/19 0825 Susan Lilyhe Pace 4/13/19 0825

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Pace Analytical Services, LL
1241 Bellevue Street, Suite
Green Bay, WI 54302

Sample Preservation Receipt Form

Client Name: Pace, Madison, WI Project # 40185823

All containers needing preservation have been checked and noted below: □Yes □No ☒N/A

Lab Lot# of pH paper: Lab Std #ID of preservation (if pH adjusted):

Initial when completed: Date/ Time:

Pace Lab #	Glass							Plastic							Vials						Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN							
001																		6															2.5 / 5 / 10
002																		3															2.5 / 5 / 10
003																		3															2.5 / 5 / 10
004																		3															2.5 / 5 / 10
005																		3															2.5 / 5 / 10
006																		3															2.5 / 5 / 10
007																		3															2.5 / 5 / 10
008																		3															2.5 / 5 / 10
009																		3															2.5 / 5 / 10
010																		3															2.5 / 5 / 10
011																		9															2.5 / 5 / 10
012																		3															2.5 / 5 / 10
013																		3															2.5 / 5 / 10
014																		3															2.5 / 5 / 10
015																		3															2.5 / 5 / 10
016																		3															2.5 / 5 / 10
017																		3															2.5 / 5 / 10
018																		3															2.5 / 5 / 10
019							1											+															2.5 / 5 / 10
020							1											1	HCl/Hach														2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: Headspace in VOA Vials (>6mm) : □Yes □No ☒N/A ***If yes look in headspace column**

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

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Client Name: Pace, Madison, WI Project #: 40185823

Sample Preservation Receipt Form

Pace Analytical Services, LL
1241 Bellevue Street, Suite
Green Bay, WI 54302

Pace Lab #	Glass							Plastic							Vials						Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN							
021								1																								2.5 / 5 / 10
022								2																								2.5 / 5 / 10
023								1																								2.5 / 5 / 10
024								1																								2.5 / 5 / 10
025							1	2	HNO3 *60																							2.5 / 5 / 10
026								1																								2.5 / 5 / 10
027								2																								2.5 / 5 / 10
028								1																								2.5 / 5 / 10
029								1																								2.5 / 5 / 10
030								1																								2.5 / 5 / 10
031								1																								2.5 / 5 / 10
																																2.5 / 5 / 10
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																																2.5 / 5 / 11
																																2.5 / 5 / 12
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																																2.5 / 5 / 18
																																2.5 / 5 / 19
																																2.5 / 5 / 20
																																2.5 / 5 / 21
																																2.5 / 5 / 22
																																2.5 / 5 / 23

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Sample Condition Upon Receipt Form (SCUR)

Client Name: Pace, Madison, WI Project #: WO#: 40185823

40185823

Courier: ☑ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco ☐ Client ☐ Pace Other: _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

Thermometer Used SR - 38 **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 3.3 /Corr: 3.3

Temp Blank Present: ☑ yes ☐ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Person examining contents:
Date: 4-15-19
Initials: SW

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☐No ☑N/A	4. IRWO 4-15-19 SW
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☑Yes ☐No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume: For Analysis: ☑Yes ☐No MS/MSD: ☑Yes ☑No ☐N/A		8. proper MS/MSD volume for 8260 vials 4-15-19 SW
Correct Containers Used:	☑Yes ☐No	9.
-Pace Containers Used:	☐Yes ☑No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: W	☑Yes ☐No ☐N/A	12.
Trip Blank Present:	☑Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Rmr for DR **Date:** 04/13/19

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

April 22, 2019

Jessica Esser
Pace Analytical Madison
2525 Advance Road
Madison, WI 53718

RE: Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40186232

Dear Jessica Esser:
Enclosed are the analytical results for sample(s) received by the laboratory on April 13, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40186232

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

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SAMPLE SUMMARY

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40186232

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40185823019	**MW-3D**	Water	04/09/19 15:53	04/13/19 08:05
40185823020	**MW-4S**	Water	04/11/19 12:57	04/13/19 08:05
40185823021	**MW-4D**	Water	04/11/19 14:31	04/13/19 08:05
40185823022	**MW-5S**	Water	04/10/19 15:22	04/13/19 08:05
40185823023	**MW-6S**	Water	04/12/19 13:38	04/13/19 08:05
40185823024	**MW-11S**	Water	04/09/19 12:35	04/13/19 08:05
40185823025	**MW-24**	Water	04/09/19 14:12	04/13/19 08:05
40185823026	**MW-28**	Water	04/12/19 12:30	04/13/19 08:05
40185823027	**MW-29S**	Water	04/12/19 10:49	04/13/19 08:05
40185823028	**MW-29D**	Water	04/12/19 10:54	04/13/19 08:05
40185823029	**DUP-01**	Water	04/09/19 00:00	04/13/19 08:05
40185823030	**DUP-02**	Water	04/11/19 00:00	04/13/19 08:05
40185823031	**FB-01**	Water	04/12/19 14:30	04/13/19 08:05

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SAMPLE ANALYTE COUNT

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40186232

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40185823019	**MW-3D**	SM 2540C	TMK	1
		SM 2540D	KTS	1
40185823020	**MW-4S**	SM 2540C	TMK	1
		SM 2540D	KTS	1
40185823021	**MW-4D**	SM 2540C	TMK	1
		SM 2540D	KTS	1
40185823022	**MW-5S**	SM 2540C	TMK	1
		SM 2540D	KTS	1
40185823023	**MW-6S**	SM 2540C	TMK	1
		SM 2540D	KTS	1
40185823024	**MW-11S**	SM 2540C	TMK	1
		SM 2540D	KTS	1
40185823025	**MW-24**	SM 2540C	TMK	1
		SM 2540D	KTS	1
40185823026	**MW-28**	SM 2540C	TMK	1
		SM 2540D	KTS	1
40185823027	**MW-29S**	SM 2540C	TMK	1
		SM 2540D	KTS	1
40185823028	**MW-29D**	SM 2540C	TMK	1
		SM 2540D	KTS	1
40185823029	**DUP-01**	SM 2540C	TMK	1
		SM 2540D	KTS	1
40185823030	**DUP-02**	SM 2540C	TMK	1
		SM 2540D	KTS	1
40185823031	**FB-01**	SM 2540C	TMK	1
		SM 2540D	KTS	1

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ANALYTICAL RESULTS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40186232

Sample: MW-3D **Lab ID: 40185823019** Collected: 04/09/19 15:53 Received: 04/13/19 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**2060**	mg/L	20.0	8.7	1		04/16/19 13:51		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**4.4**	mg/L	2.0	0.95	1		04/16/19 11:27		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40186232

Sample: MW-4S **Lab ID: 40185823020** Collected: 04/11/19 12:57 Received: 04/13/19 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**2260**	mg/L	20.0	8.7	1		04/16/19 13:51		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**1.6J**	mg/L	2.0	0.95	1		04/16/19 11:27		

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ANALYTICAL RESULTS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40186232

Sample: MW-4D **Lab ID: 40185823021** Collected: 04/11/19 14:31 Received: 04/13/19 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**894**	mg/L	20.0	8.7	1		04/16/19 13:51		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**1.4J**	mg/L	2.0	0.95	1		04/16/19 11:27		

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ANALYTICAL RESULTS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40186232

Sample: MW-5S **Lab ID: 40185823022** Collected: 04/10/19 15:22 Received: 04/13/19 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**1060**	mg/L	20.0	8.7	1		04/16/19 13:52		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**2.4**	mg/L	2.0	0.95	1		04/16/19 11:27		

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ANALYTICAL RESULTS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40186232

Sample: MW-6S **Lab ID: 40185823023** Collected: 04/12/19 13:38 Received: 04/13/19 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**4400**	mg/L	50.0	21.7	1		04/17/19 15:50		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**1.8J**	mg/L	2.0	0.95	1		04/16/19 11:27		

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ANALYTICAL RESULTS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40186232

Sample: MW-11S **Lab ID: 40185823024** Collected: 04/09/19 12:35 Received: 04/13/19 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**1460**	mg/L	20.0	8.7	1		04/16/19 13:52		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**1.4J**	mg/L	2.0	0.95	1		04/16/19 11:27		

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ANALYTICAL RESULTS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40186232

Sample: MW-24 **Lab ID: 40185823025** Collected: 04/09/19 14:12 Received: 04/13/19 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**2170**	mg/L	20.0	8.7	1		04/16/19 13:52		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**3.2**	mg/L	2.0	0.95	1		04/16/19 11:27		

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ANALYTICAL RESULTS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40186232

Sample: MW-28 **Lab ID: 40185823026** Collected: 04/12/19 12:30 Received: 04/13/19 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**1310**	mg/L	20.0	8.7	1		04/16/19 13:52		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**1.4J**	mg/L	2.0	0.95	1		04/16/19 11:27		

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ANALYTICAL RESULTS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40186232

Sample: MW-29S **Lab ID: 40185823027** Collected: 04/12/19 10:49 Received: 04/13/19 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**762**	mg/L	20.0	8.7	1		04/16/19 13:53		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.95**	mg/L	2.0	0.95	1		04/16/19 12:50		

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ANALYTICAL RESULTS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40186232

Sample: MW-29D **Lab ID: 40185823028** Collected: 04/12/19 10:54 Received: 04/13/19 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**780**	mg/L	20.0	8.7	1		04/16/19 13:53		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.95**	mg/L	2.0	0.95	1		04/16/19 12:50		

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ANALYTICAL RESULTS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40186232

Sample: DUP-01 **Lab ID: 40185823029** Collected: 04/09/19 00:00 Received: 04/13/19 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**2020**	mg/L	20.0	8.7	1		04/16/19 13:53		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**4.6**	mg/L	2.0	0.95	1		04/16/19 11:27		

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ANALYTICAL RESULTS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40186232

Sample: DUP-02 **Lab ID: 40185823030** Collected: 04/11/19 00:00 Received: 04/13/19 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**820**	mg/L	20.0	8.7	1		04/16/19 13:53		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.95**	mg/L	2.0	0.95	1		04/16/19 12:50		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40186232

Sample: FB-01 **Lab ID: 40185823031** Collected: 04/12/19 14:30 Received: 04/13/19 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**<8.7**	mg/L	20.0	8.7	1		04/16/19 13:53		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.95**	mg/L	2.0	0.95	1		04/16/19 12:50		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40186232

QC Batch: 318566 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 40185823019, 40185823020, 40185823021, 40185823022, 40185823024, 40185823025, 40185823026, 40185823027, 40185823028, 40185823029, 40185823030, 40185823031

METHOD BLANK: 1851287 Matrix: Water
Associated Lab Samples: 40185823019, 40185823020, 40185823021, 40185823022, 40185823024, 40185823025, 40185823026, 40185823027, 40185823028, 40185823029, 40185823030, 40185823031

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<8.7	20.0	04/16/19 13:50	

LABORATORY CONTROL SAMPLE: 1851288

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	577	570	99	80-120	

SAMPLE DUPLICATE: 1851289

Parameter	Units	40185823019 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2060	2060	0	5	

SAMPLE DUPLICATE: 1851290

Parameter	Units	40185862001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	504	532	5	5	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40186232

QC Batch: 318718 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 40185823023

METHOD BLANK: 1852177 Matrix: Water
Associated Lab Samples: 40185823023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<8.7	20.0	04/17/19 15:49	

LABORATORY CONTROL SAMPLE: 1852178

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	577	600	104	80-120	

SAMPLE DUPLICATE: 1852179

Parameter	Units	40185907001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1420	1450	2	5	

SAMPLE DUPLICATE: 1852180

Parameter	Units	40185913001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	856	854	0	5	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40186232

QC Batch: 318523 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 40185823019, 40185823020, 40185823021, 40185823022, 40185823023, 40185823024, 40185823025, 40185823026, 40185823029

METHOD BLANK: 1851097 Matrix: Water
Associated Lab Samples: 40185823019, 40185823020, 40185823021, 40185823022, 40185823023, 40185823024, 40185823025, 40185823026, 40185823029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	<0.48	1.0	04/16/19 11:27	

LABORATORY CONTROL SAMPLE: 1851098

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	100	112	112	80-120	

SAMPLE DUPLICATE: 1851099

Parameter	Units	40185746001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	580	513	12	5	R1

SAMPLE DUPLICATE: 1851100

Parameter	Units	40185764001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	38.0	35.0	8	5	R1

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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40186232

QC Batch: 318536 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 40185823027, 40185823028, 40185823030, 40185823031

METHOD BLANK: 1851157 Matrix: Water
Associated Lab Samples: 40185823027, 40185823028, 40185823030, 40185823031

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	<0.48	1.0	04/16/19 12:50	

LABORATORY CONTROL SAMPLE: 1851158

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	100	104	104	80-120	

SAMPLE DUPLICATE: 1851159

Parameter	Units	40185813001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	38.0	38.0	0	5	

SAMPLE DUPLICATE: 1851160

Parameter	Units	40185829001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	<0.95	<0.95		5	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40186232

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

R1 RPD value was outside control limits.

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Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: A191520 MADISON KIPP CORPORAT
Pace Project No.: 40186232

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40185823019	**MW-3D**	SM 2540C	318566		
40185823020	**MW-4S**	SM 2540C	318566		
40185823021	**MW-4D**	SM 2540C	318566		
40185823022	**MW-5S**	SM 2540C	318566		
40185823023	**MW-6S**	SM 2540C	318718		
40185823024	**MW-11S**	SM 2540C	318566		
40185823025	**MW-24**	SM 2540C	318566		
40185823026	**MW-28**	SM 2540C	318566		
40185823027	**MW-29S**	SM 2540C	318566		
40185823028	**MW-29D**	SM 2540C	318566		
40185823029	**DUP-01**	SM 2540C	318566		
40185823030	**DUP-02**	SM 2540C	318566		
40185823031	**FB-01**	SM 2540C	318566		
40185823019	**MW-3D**	SM 2540D	318523		
40185823020	**MW-4S**	SM 2540D	318523		
40185823021	**MW-4D**	SM 2540D	318523		
40185823022	**MW-5S**	SM 2540D	318523		
40185823023	**MW-6S**	SM 2540D	318523		
40185823024	**MW-11S**	SM 2540D	318523		
40185823025	**MW-24**	SM 2540D	318523		
40185823026	**MW-28**	SM 2540D	318523		
40185823027	**MW-29S**	SM 2540D	318536		
40185823028	**MW-29D**	SM 2540D	318536		
40185823029	**DUP-01**	SM 2540D	318523		
40185823030	**DUP-02**	SM 2540D	318536		
40185823031	**FB-01**	SM 2540D	318536		

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ECCS Mobile Lab Services

SUBCONTRACT ORDER

Pace Analytical - Madison

A191520

401858 J

SENDING LABORATORY:

Pace Analytical - Madison
2525 Advance Road
Madison, WI 53718
Phone: 608.221.8700
Fax: 608,221,4889
Project Manager: Jessica Esser

RECEIVING LABORATORY:

Pace Analytical
1241 Bellevue Street, Suite 9
Green Bay, WI 54302
Phone :(920) 469-2436
Fax: (920) 469-8827

Turn around Time: X Normal Due 04-26-19
_____ Rush

Project Name: Madison Kipp Corporation - Madison, WI

Analysis	Due	Expires	Laboratory ID	Comments
001 **MW-2D**	**Lab ID: A191520-01 Water**	**Sampled: 04/12/2019 14:28**		
8260 WI Full List	04/26/2019 00:00	04/26/2019 14:28		
Containers Supplied:				
07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-]				
002 **MW-3D**	**Lab ID: A191520-02 Water**	**Sampled: 04/09/2019 15:53**		
8260 WI Full List	04/26/2019 00:00	04/23/2019 15:53		
Containers Supplied:				
07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-]				
003 **MW-3D2**	**Lab ID: A191520-03 Water**	**Sampled: 04/09/2019 16:41**		
8260 WI Full List	04/26/2019 00:00	04/23/2019 16:41		
Containers Supplied:				
07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-]				
004 **MW-4D2**	**Lab ID: A191520-04 Water**	**Sampled: 04/11/2019 12:52**		
8260 WI Full List	04/26/2019 00:00	04/25/2019 12:52		
Containers Supplied:				
07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-]				
005 **MW-5D**	**Lab ID: A191520-05 Water**	**Sampled: 04/08/2019 15:36**		
8260 WI Full List	04/26/2019 00:00	04/22/2019 15:36		
Containers Supplied:				
07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-]				
006 **MW-5D2**	**Lab ID: A191520-06 Water**	**Sampled: 04/10/2019 16:17**		
8260 WI Full List	04/26/2019 00:00	04/24/2019 16:17		
Containers Supplied:				
07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-]				

Jessica Esser	04-12-19 1630		
Released By	Date	Received By	Date
CS Logistics	4/13/19 0825	Stuart Uhle	4-13-19 0825
Released By	Date	Received By	Date

401858 J

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ECCS Mobile Lab Services

4018583

SUBCONTRACT ORDER

Pace Analytical - Madison

A191520

Analysis	Due	Expires	Laboratory ID	Comments
007				
MW-5D3	**Lab ID: A191520-07 Water**	**Sampled: 04/10/2019 14:26**		
8260 WI Full List	04/26/2019 00:00	04/24/2019 14:26		
Containers Supplied:				
07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-]				
008				
MW-6D	**Lab ID: A191520-08 Water**	**Sampled: 04/11/2019 16:40**		
8260 WI Full List	04/26/2019 00:00	04/25/2019 16:40		
Containers Supplied:				
07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-]				
009				
MW-9D2	**Lab ID: A191520-09 Water**	**Sampled: 04/09/2019 11:23**		
8260 WI Full List	04/26/2019 00:00	04/23/2019 11:23		
Containers Supplied:				
07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-]				
010				
MW-17	**Lab ID: A191520-10 Water**	**Sampled: 04/11/2019 16:22**		
8260 WI Full List	04/26/2019 00:00	04/25/2019 16:22		
Containers Supplied:				
07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-]				
011				
MW-25D2	**Lab ID: A191520-11 Water**	**Sampled: 04/10/2019 10:44**		
8260 WI Full List	04/26/2019 00:00	04/24/2019 10:44		
Containers Supplied:				
07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-]				
012				
MW-27D	**Lab ID: A191520-12 Water**	**Sampled: 04/10/2019 12:54**		
8260 WI Full List	04/26/2019 00:00	04/24/2019 12:54		
Containers Supplied:				
07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-]				
013				
MP-14 (135-140)	**Lab ID: A191520-13 Water**	**Sampled: 04/08/2019 13:50**		
8260 WI Full List	04/26/2019 00:00	04/22/2019 13:50		
Containers Supplied:				
07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-]				
014				
MP-16 (140-144)	**Lab ID: A191520-14 Water**	**Sampled: 04/08/2019 11:30**		
8260 WI Full List	04/26/2019 00:00	04/22/2019 11:30		
Containers Supplied:				
07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-]				

Jessica Cano 04-12-19 1630
Released By Date Received By Date

[illegible] 4-13-19 0825 Susan K Wyke 4-13-19 0825
Released By Date Received By Pace Date

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SUBCONTRACT ORDER

Pace Analytical - Madison

A191520

4618583

Analysis	Due	Expires	Laboratory ID	Comments
015 **DUP-01**	**Lab ID: A191520-15 Water**	**Sampled: 04/09/2019 00:00**	[redacted]	
8260 WI Full List	04/26/2019 00:00	04/23/2019 00:00		
Containers Supplied:				
07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-]				
016 **DUP-03**	**Lab ID: A191520-16 Water**	**Sampled: 04/11/2019 00:00**	[redacted]	
8260 WI Full List	04/26/2019 00:00	04/25/2019 00:00		
Containers Supplied:				
07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-]				
017 **FB-01**	**Lab ID: A191520-17 Water**	**Sampled: 04/12/2019 14:30**	[redacted]	
8260 WI Full List	04/26/2019 00:00	04/26/2019 14:30		
Containers Supplied:				
07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-]				
018 **Trip Blank**	**Lab ID: A191520-18 Water**	**Sampled: 04/08/2019 00:00**	[redacted]	
8260 WI Full List	04/26/2019 00:00	04/22/2019 00:00		
Containers Supplied:				
07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-] 07_40mL Clear Vial (pre-]				
019 **MW-3D**	**Lab ID: A191520-19 Water**	**Sampled: 04/09/2019 15:53**	[redacted]	
2540D - Suspended Solids	04/26/2019 00:00	04/16/2019 15:53		
Subcontracted Analysis - Pace	04/26/2019 00:00	04/23/2019 15:53		Dissolved Solids, Total
Containers Supplied:				
14_1000mL Plastic Cool t				
020 **MW-4S**	**Lab ID: A191520-20 Water**	**Sampled: 04/11/2019 12:57**	[redacted]	
2540D - Suspended Solids	04/26/2019 00:00	04/18/2019 12:57		
Subcontracted Analysis - Pace	04/26/2019 00:00	04/25/2019 12:57		Dissolved Solids, Total
Containers Supplied:				
14_1000mL Plastic Cool t				
021 **MW-4D**	**Lab ID: A191520-21 Water**	**Sampled: 04/11/2019 14:31**	[redacted]	
Subcontracted Analysis - Pace	04/26/2019 00:00	04/25/2019 14:31		Dissolved Solids, Total
2540D - Suspended Solids	04/26/2019 00:00	04/18/2019 14:31		
Containers Supplied:				
14_1000mL Plastic Cool t				

Jessica Eddy 04-12-19 1630
Released By Date Received By Date

C S Logistics 4-13-19 0825 Susan Mlynek 4-13-19 0825
Released By Date Received By Date

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SUBCONTRACT ORDER

Pace Analytical - Madison

A191520

L1055823

Analysis	Due	Expires	Laboratory ID	Comments
022				
MW-5S	**Lab ID: A191520-22 Water**	**Sampled: 04/10/2019 15:22**	[redacted]	
2540D - Suspended Solids	04/26/2019 00:00	04/17/2019 15:22		
Subcontracted Analysis - Pace	04/26/2019 00:00	04/24/2019 15:22		Dissolved Solids, Total
Containers Supplied:				
14_1000mL Plastic Cool t				
023				
MW-6S	**Lab ID: A191520-23 Water**	**Sampled: 04/12/2019 13:38**	[redacted]	
2540D - Suspended Solids	04/26/2019 00:00	04/19/2019 13:38		
Subcontracted Analysis - Pace	04/26/2019 00:00	04/26/2019 13:38		Dissolved Solids, Total
Containers Supplied:				
14_1000mL Plastic Cool t				
024				
MW-11S	**Lab ID: A191520-24 Water**	**Sampled: 04/09/2019 12:35**	[redacted]	
2540D - Suspended Solids	04/26/2019 00:00	04/16/2019 12:35		
Subcontracted Analysis - Pace	04/26/2019 00:00	04/23/2019 12:35		Dissolved Solids, Total
Containers Supplied:				
14_1000mL Plastic Cool t				
025				
MW-24	**Lab ID: A191520-25 Water**	**Sampled: 04/09/2019 14:12**	[redacted]	
2540D - Suspended Solids	04/26/2019 00:00	04/16/2019 14:12		
Subcontracted Analysis - Pace	04/26/2019 00:00	04/23/2019 14:12		Dissolved Solids, Total
Containers Supplied:				
14_1000mL Plastic Cool t				
026				
MW-28	**Lab ID: A191520-26 Water**	**Sampled: 04/12/2019 12:30**	[redacted]	
2540D - Suspended Solids	04/26/2019 00:00	04/19/2019 12:30		
Subcontracted Analysis - Pace	04/26/2019 00:00	04/26/2019 12:30		Dissolved Solids, Total
Containers Supplied:				
14_1000mL Plastic Cool t				
027				
MW-29S	**Lab ID: A191520-27 Water**	**Sampled: 04/12/2019 10:49**	[redacted]	
Subcontracted Analysis - Pace	04/26/2019 00:00	04/26/2019 10:49		Dissolved Solids, Total
2540D - Suspended Solids	04/26/2019 00:00	04/19/2019 10:49		
Containers Supplied:				
14_1000mL Plastic Cool t				

Jessica Eddy 04-12-19 1630
Released By Date Received By Date

CS Logistics 4-13-19 0825 Susan K Mylo 4-13-19 0825
Released By Date Received By Date
Pace

Analysis	Due	Expires	Laboratory ID	Comments
028				
MW-29D	**Lab ID: A191520-28 Water**	**Sampled: 04/12/2019 10:54**	[redacted]	
2540D - Suspended Solids	04/26/2019 00:00	04/19/2019 10:54		
Subcontracted Analysis - Pace	04/26/2019 00:00	04/26/2019 10:54		Dissolved Solids, Total
Containers Supplied:				
14_1000mL Plastic Cool t				
029				
DUP-01	**Lab ID: A191520-29 Water**	**Sampled: 04/09/2019 00:00**	[redacted]	
2540D - Suspended Solids	04/26/2019 00:00	04/16/2019 00:00		
Subcontracted Analysis - Pace	04/26/2019 00:00	04/23/2019 00:00		Dissolved Solids, Total
Containers Supplied:				
14_1000mL Plastic Cool t				
030				
DUP-02	**Lab ID: A191520-30 Water**	**Sampled: 04/11/2019 00:00**	[redacted]	
2540D - Suspended Solids	04/26/2019 00:00	04/18/2019 00:00		
Subcontracted Analysis - Pace	04/26/2019 00:00	04/25/2019 00:00		Dissolved Solids, Total
Containers Supplied:				
14_1000mL Plastic Cool t				
031				
FB-01	**Lab ID: A191520-31 Water**	**Sampled: 04/12/2019 14:30**	[redacted]	
Subcontracted Analysis - Pace	04/26/2019 00:00	04/26/2019 14:30		Dissolved Solids, Total
2540D - Suspended Solids	04/26/2019 00:00	04/19/2019 14:30		
Containers Supplied:				
14_1000mL Plastic Cool t				

Jessica Endres 04-12-19 1630
Released By Date Received By Date

CS Logsdon 4-13-19 0825 Susan Mylchreest Pace 4-13-19 0825
Released By Date Received By Date

4018582J

Pace Analytical - ECCS Division
2525 Advance Road
Madison, WI 53718
608-221-8700 (phone)
608-221-4889 (fax)

CHAIN OF CUSTODY

No. 10837

Page: 1 of: 4

Lab Work Order #:

Report To: Andy Stehn
Company: TRC Env.
Address 1:
Address 2:
E-mail Address:

Project Number: 323372.0000.0000.00002 PO Number: 132937
Project Name: Madison Kipp Corp
Project Location (City, State): Madison, WI

Preservation Codes
Analyses Requested

Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Wesley Bragen

Invoice To:
Company:
Address 1:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	VOCs (B)	Comments	Lab ID	Lab Receip Time
MW-2D	4/12/19	1428	W		X	MS/MSD		
MW-3D	4/9/19	1553	W		X			
MW-3D2	4/9/19	1641	W		X			
MW-4D2	4/11/19	1252	W		X			
MW-5D	4/8/19	1536	W		X			
MW-5D2	4/10/19	1617	W		X			
MW-5D3	4/10/19	1426	W		X			
MW-6D	4/11/19	1640	W		X			
MW-9D2	4/9/19	1123	W		X			
MW-17	4/11/19	1622	W		X			

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

Relinquished By: Wesley Bragen Date: 4/12/19 Time: 1555 Received By: Jessica Edds Date: 04-12-19 Time: 1600
Relinquished By: Jessica Edds Date: 04-12-19 Time: 1630 Received By: Date: Time:
Custody Seal: ☒ NA ☐ Intact ☐ Not Intact Shipped Via: Walk-In Receipt Temp: on ice Thermometer #/ Exp. Date: Temp Blank: ☐ Y ☐ N

Rev. 12/15

CS Logistics 4-13-19 0825 Susan Kuyler Pace 4-13-19 0825

Page 152 of 158 A191520 FINAL 05 03 2019 1156

Pace Analytical - ECCS Division
2525 Advance Road
Madison, WI 53718
608-221-8700 (phone)
608-221-4889 (fax)

CHAIN OF CUSTODY

No. 10838

4018583

Project Number: 323372.0000.0000 PO Number: 132937
Project Name: Madison Kipp Corp 60002
Project Location (City, State): Madison, WI
Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Wesley Braga

Lab Work Order #:

Preservation Codes

Analyses Requested

Report To: Andy Stehn
Company: TRC, Env.
Address 1:
Address 2:
E-mail Address:

Invoice To:
Company:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	B VOCs	Comments	Lab ID	Lab Receipt Time
MW-25D2	4/10/19	1044	W		X	MS/MSD		
MW-27D	4/10/19	1254	W		X			
MP-14 (135-140)	4/8/19	1350	W		X			
MP-16 (140-144)	4/8/19	1130	W		X			
DUP-01	4/9/19	—	W		X			
DUP-03	4/11/19	—	W		X			
FB-01	4/12/19	1430	W		X			
Trip Blank	—	—	W		X			

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

Relinquished By: Wesley Braga Date: 4/12/19 Time: 1555
Received By: [signature] Date: 04-12-19 Time: 1600
Relinquished By: [signature] Date: 04-12-19 Time: 1630
Received By: Date: Time:
Custody Seal: ☒ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk-In
Receipt Temp: 0°C ice
Thermometer #/ Exp. Date:
Temp Blank: ☐ Y ☐ N

CS Logistics 4-13-19 0825 Susan Kilgus Pace 4/13/19 0825

Rev. 12/15

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Pace Analytical - ECCS Division
2525 Advance Road
Madison, WI 53718
608-221-8700 (phone)
608-221-4889 (fax)

CHAIN OF CUSTODY

No. 10840

4018582?

Page: 3 of: 4

Lab Work Order #:

Project Number: 323372.0000.0000 PO Number: 132937
Project Name: Madison Kipp Corp 00002
Project Location (City, State): Madison, WI

Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Wesley Bragg

Preservation Codes
Analyses Requested

Report To: Andy Stehn
Company: TRC
Address 1:
Address 2:
E-mail Address:

Invoice To:
Company:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	PCBs	TDS	TSS				Comments	Lab ID	Lab Receip Time
MW-3D	4/9/19	1553	W		X	X	X						
MW-4S	4/11/19	1257	W		X	X	X						
MW-4D	4/11/19	1431	W		X	X	X						
MW-5S	4/10/19	1522	W		X	X	X				MS/MSD		
MW-6S	4/12/19	1338	W		X	X	X						
MW-11S	4/9/19	1235	W		X	X	X						
MW-24	4/9/19	1412	W		X	X	X						
MW-28	4/12/19	1230	W		X	X	X						
MW-29S	4/12/19	1049	W		X	X	X				*Extra Volume TSS/TDS		
MW-29D	4/12/19	1054	W		X	X	X						

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

Relinquished By: Wesley Bragg	Date: 4/12/19	Time: 1555	Received By: [illegible]	Date: 04-12-19	Time: 1600
Relinquished By: [illegible]	Date: 04-12-19	Time: 1630	Received By:	Date:	Time:

Custody Seal: ☒ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk In
Receipt Temp: on ice
Thermometer #/ Exp. Date:
Temp Blank: ☐ Y ☐ N

CS Logistics 4-13-19 0825 Susan Kilfoy 4/13/19 0825

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Pace Analytical - ECCS Division
2525 Advance Road
Madison, WI 53718
608-221-8700 (phone)
608-221-4889 (fax)

CHAIN OF CUSTODY

No. 10839

Page: 4 of: 4

4018585 C3

Lab Work Order #:

Report To: Andy Stehn
Company: TRC
Address 1:
Address 2:
E-mail Address:

Project Number: 323372.0000.0000 PO Number: 132937
Project Name: Madison Kipp Corp 00002
Project Location (City, State): Madison, WI

Preservation Codes
Analyses Requested

Turn Around (check one): ☐ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Wesley Bragg

Invoice To:
Company:
Address 1:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	PCBs	TSS	TDS				Comments	Lab ID	Lab Receipt Time
DUP-01	4/9/19	—	W	3	X	X	X						
DUP-02	4/11/19	—	W	3	X	X	X						
FB-01	4/12/19	1430	W	3	X	X	X						

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Wesley Bragg	4/12/19	1555	[signature]	04-12-19	1600
[signature]	04-12-19	1630	Received By:	Date:	Time:

Custody Seal: ☒ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk-In
Receipt Temp: 0nice
Thermometer #/ Exp. Date:
Temp Blank: ☐ Y ☐ N

Rev. 12/15

CS Logistics 4/13/19 0825 Susan Lilyhe Pace 4/13/19 0825

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Pace Analytical Services, LL
1241 Bellevue Street, Suite
Green Bay, WI 54302

Sample Preservation Receipt Form

Client Name: Pace, Madison, WI Project # 40185823

All containers needing preservation have been checked and noted below: □Yes □No ☑N/A

Lab Lot# of pH paper: Lab Std #ID of preservation (if pH adjusted):

Initial when completed: Date/ Time:

Pace Lab #	Glass							Plastic							Vials						Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN							
001																		6															2.5 / 5 / 10
002																		3															2.5 / 5 / 10
003																		3															2.5 / 5 / 10
004																		3															2.5 / 5 / 10
005																		3															2.5 / 5 / 10
006																		3															2.5 / 5 / 10
007																		3															2.5 / 5 / 10
008																		3															2.5 / 5 / 10
009																		3															2.5 / 5 / 10
010																		3															2.5 / 5 / 10
011																		9															2.5 / 5 / 10
012																		3															2.5 / 5 / 10
013																		3															2.5 / 5 / 10
014																		3															2.5 / 5 / 10
015																		3															2.5 / 5 / 10
016																		3															2.5 / 5 / 10
017																		3															2.5 / 5 / 10
018																		3															2.5 / 5 / 10
019							1											+															2.5 / 5 / 10
020							1											1	HNO3														2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: Headspace in VOA Vials (>6mm) : □Yes □No ☑N/A ***If yes look in headspace column**

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

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Client Name: Pace Madison, WI

Sample Preservation Receipt Form

Project #: 40185823

Pace Analytical Services, LLC
1241 Bellevue Street, Suite
Green Bay, WI 54302

Pace Lab #	Glass							Plastic							Vials						Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN							
021								1																								2.5 / 5 / 10
022								2																								2.5 / 5 / 10
023								1																								2.5 / 5 / 10
024								1																								2.5 / 5 / 10
025							1	2	HNO3 *60																							2.5 / 5 / 10
026								1																								2.5 / 5 / 10
027								2																								2.5 / 5 / 10
028								1																								2.5 / 5 / 10
029								1																								2.5 / 5 / 10
030								1																								2.5 / 5 / 10
031								1																								2.5 / 5 / 10
																																2.5 / 5 / 10
																																2.5 / 5 / 10
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																																2.5 / 5 / 12
																																2.5 / 5 / 13
																																2.5 / 5 / 14
																																2.5 / 5 / 15
																																2.5 / 5 / 16
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																																2.5 / 5 / 18
																																2.5 / 5 / 19
																																2.5 / 5 / 20
																																2.5 / 5 / 21
																																2.5 / 5 / 22
																																2.5 / 5 / 23

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Sample Condition Upon Receipt Form (SCUR)

Client Name: Pace, Madison, WI Project #: WO# : 40185823

40185823

Courier: ☑ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco ☐ Client ☐ Pace Other: _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

Thermometer Used SR - 38 **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 3.3 /Corr: 3.3

Temp Blank Present: ☑ yes ☐ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Person examining contents:
Date: 4-15-19
Initials: SW

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☐Yes ☐No ☑N/A	4. IRWO 4-15-19 SW
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☑Yes ☐No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume: For Analysis: ☑Yes ☐No MS/MSD: ☑Yes ☑No ☐N/A		8. proper MS/MSD volume for 8260 vials 4-15-19 SW
Correct Containers Used:	☑Yes ☐No	9.
-Pace Containers Used:	☐Yes ☑No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: W	☑Yes ☐No ☐N/A	12.
Trip Blank Present:	☑Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Rmr for DR **Date:** 04/13/19

Attachment 7

Storm Sewer Sediment and Stormwater Monitoring Laboratory Analytical Report

Pace Analytical®
ECCS Mobile Lab Services

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

June 11, 2019

Andrew Stehn
TRC Environmental Corporation, Inc.
708 Heartland Trail, Ste 3000
Madison, WI 53717

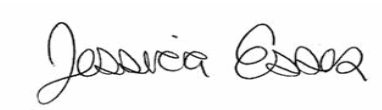
RE: MKC Raingarden Sediment Monitoring - Madison, WI

Enclosed are the analytical results for the samples received by the laboratory on 05/30/2019.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. These results are in compliance with the 2009 NELAC Standards and the appropriate agencies listed below, unless otherwise noted in the case narrative. This analytical report should be reproduced in its entirety.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jessica Esser
Project Manager

Certification List			Expires
DODELAP	DOD ELAP Accreditation (A2LA)	3269.01	03/31/2020
ILEPA	Illinois Secondary NELAP Accreditation	004366	04/30/2020
KDHE	Kansas Secondary NELAP Accreditation	E-10384	04/30/2020
LELAP	Louisiana Primary NELAP Accreditation	04165	06/30/2019
NCDEQ	North Carolina Dept. of Environmental Quality Accreditation	688	12/31/2019
NJDEP	New Jersey Secondary NELAP Accreditation	WI004	06/30/2019
ODEQ	Oklahoma Department of Environmental Quality Accreditation	2018-087	08/31/2019
TCEQ	Texas Secondary NELAP Accreditation	T104704504-16-7	11/30/2019
WDNR	Wisconsin Certification under NR 149	113289110	08/31/2019

Pace Analytical®
ECCS Mobile Lab Services

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

TRC Environmental Corporation, Inc.	Project: MKC Raingarden Sediment Monitoring - Madison, WI
708 Heartland Trail, Ste 3000	Project Number: 323372
Madison WI, 53717	Project Manager: Andrew Stehn

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
OUTFALL (5/30/2019)-W	A192212-01	Water	05/30/2019	05/30/2019
OUTFALL (5/30/2019)	A192212-02	Other	05/30/2019	05/30/2019
MH-1A (5/30/2019)	A192212-03	Other	05/30/2019	05/30/2019

CASE NARRATIVE

Sample Receipt Information:
3 samples were received on 05/30/2019. Samples were received on ice. Samples were received in acceptable condition.

Please see the chain of custody (COC) document at the end of this report for additional information.

Pace Analytical®
ECCS Mobile Lab Services

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

TRC Environmental Corporation, Inc.
708 Heartland Trail, Ste 3000
Madison WI, 53717

Project: MKC Raingarden Sediment Monitoring - Madison, WI
Project Number: 323372
Project Manager: Andrew Stehn

OUTFALL (5/30/2019)-W

A192212-01 (Water)

Date Sampled
05/30/2019 13:30

Pace Analytical - Madison

Polychlorinated Biphenyls by EPA Method 8082 — **Preparation Batch: A905296**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
PCB-1016	ND	0.0072	0.13	ug/L	1	05/31/2019	06/01/2019 02:47	EPA 8082A	
PCB-1221	ND	0.026	0.25	ug/L	1	05/31/2019	06/01/2019 02:47	EPA 8082A	
PCB-1232	ND	0.0042	0.13	ug/L	1	05/31/2019	06/01/2019 02:47	EPA 8082A	
PCB-1242	ND	0.013	0.13	ug/L	1	05/31/2019	06/01/2019 02:47	EPA 8082A	
PCB-1248	ND	0.011	0.13	ug/L	1	05/31/2019	06/01/2019 02:47	EPA 8082A	
PCB-1254	ND	0.010	0.13	ug/L	1	05/31/2019	06/01/2019 02:47	EPA 8082A	
PCB-1260	ND	0.012	0.13	ug/L	1	05/31/2019	06/01/2019 02:47	EPA 8082A	
Total PCBs	ND	0.026	0.25	ug/L	1	05/31/2019	06/01/2019 02:47	EPA 8082A	
Surrogate: Tetrachloro-meta-xylene			*92.5 %*	*68.8-135*		*05/31/2019*	*06/01/2019 02:47*	*EPA 8082A*	
Surrogate: Decachlorobiphenyl			*119 %*	*82.2-139*		*05/31/2019*	*06/01/2019 02:47*	*EPA 8082A*	

Pace Analytical®
ECCS Mobile Lab Services

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

TRC Environmental Corporation, Inc.	Project: MKC Raingarden Sediment Monitoring - Madison, WI
708 Heartland Trail, Ste 3000	Project Number: 323372
Madison WI, 53717	Project Manager: Andrew Stehn

OUTFALL (5/30/2019)

A192212-02 (Other)

Date Sampled
05/30/2019 13:50

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pace Analytical - Madison									
Polychlorinated Biphenyls by EPA Method 8082							**Preparation Batch: A906171**		
PCB-1016	ND	0.0080	0.17	mg/kg dry	1	06/05/2019	06/06/2019 00:10	EPA 8082A	
PCB-1221	ND	0.011	0.17	mg/kg dry	1	06/05/2019	06/06/2019 00:10	EPA 8082A	
PCB-1232	ND	0.0076	0.17	mg/kg dry	1	06/05/2019	06/06/2019 00:10	EPA 8082A	
PCB-1242	ND	0.016	0.17	mg/kg dry	1	06/05/2019	06/06/2019 00:10	EPA 8082A	
PCB-1248	**0.43**	0.015	0.17	mg/kg dry	1	06/05/2019	06/06/2019 00:10	EPA 8082A	
PCB-1254	ND	0.013	0.17	mg/kg dry	1	06/05/2019	06/06/2019 00:10	EPA 8082A	
PCB-1260	ND	0.012	0.17	mg/kg dry	1	06/05/2019	06/06/2019 00:10	EPA 8082A	
Total PCBs	**0.43**	0.016	0.17	mg/kg dry	1	06/05/2019	06/06/2019 00:10	EPA 8082A	
Surrogate: Tetrachloro-meta-xylene			*103 %*	*71.5-118*		*06/05/2019*	*06/06/2019 00:10*	*EPA 8082A*	
Surrogate: Decachlorobiphenyl			*89.2 %*	*56.1-132*		*06/05/2019*	*06/06/2019 00:10*	*EPA 8082A*	
Classical Chemistry Parameters							**Preparation Batch: A906188**		
% Solids	**57.6**		0.00	% by Weight	1	06/10/2019	06/11/2019 07:57	SM 2540B	

Pace Analytical®
ECCS Mobile Lab Services

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

TRC Environmental Corporation, Inc.	Project: MKC Raingarden Sediment Monitoring - Madison, WI
708 Heartland Trail, Ste 3000	Project Number: 323372
Madison WI, 53717	Project Manager: Andrew Stehn

MH-1A (5/30/2019)

A192212-03 (Other)

Date Sampled
05/30/2019 14:05

Pace Analytical - Madison

Polychlorinated Biphenyls by EPA Method 8082 — **Preparation Batch: A906171**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
PCB-1016	ND	0.0058	0.13	mg/kg dry	1	06/05/2019	06/06/2019 00:35	EPA 8082A	
PCB-1221	ND	0.0083	0.13	mg/kg dry	1	06/05/2019	06/06/2019 00:35	EPA 8082A	
PCB-1232	ND	0.0055	0.13	mg/kg dry	1	06/05/2019	06/06/2019 00:35	EPA 8082A	
PCB-1242	ND	0.011	0.13	mg/kg dry	1	06/05/2019	06/06/2019 00:35	EPA 8082A	
PCB-1248	**0.24**	0.011	0.13	mg/kg dry	1	06/05/2019	06/06/2019 00:35	EPA 8082A	
PCB-1254	ND	0.0092	0.13	mg/kg dry	1	06/05/2019	06/06/2019 00:35	EPA 8082A	
PCB-1260	ND	0.0089	0.13	mg/kg dry	1	06/05/2019	06/06/2019 00:35	EPA 8082A	
Total PCBs	**0.24**	0.011	0.13	mg/kg dry	1	06/05/2019	06/06/2019 00:35	EPA 8082A	
Surrogate: Tetrachloro-meta-xylene			*118 %*	*71.5-118*		*06/05/2019*	*06/06/2019 00:35*	*EPA 8082A*	
Surrogate: Decachlorobiphenyl			*101 %*	*56.1-132*		*06/05/2019*	*06/06/2019 00:35*	*EPA 8082A*	

Classical Chemistry Parameters — **Preparation Batch: A906188**

% Solids	**79.5**		0.00	% by Weight	1	06/10/2019	06/11/2019 07:57	SM 2540B	

Pace Analytical®
ECCS Mobile Lab Services

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

TRC Environmental Corporation, Inc.	Project: MKC Raingarden Sediment Monitoring - Madison, WI
708 Heartland Trail, Ste 3000	Project Number: 323372
Madison WI, 53717	Project Manager: Andrew Stehn

Polychlorinated Biphenyls by EPA Method 8082 - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A905296 - EPA 3511										
Blank (A905296-BLK1)				Prepared: 05/31/2019 Analyzed: 06/01/2019 02:22						
PCB-1016	ND	0.13	ug/L							
PCB-1221	ND	0.25	ug/L							
PCB-1232	ND	0.13	ug/L							
PCB-1242	ND	0.13	ug/L							
PCB-1248	ND	0.13	ug/L							
PCB-1254	ND	0.13	ug/L							
PCB-1260	ND	0.13	ug/L							
Total PCBs	ND	0.25	ug/L							
Surrogate: Tetrachloro-meta-xylene	*0.656*		*ug/L*	*0.7500*		*87.5*	*68.8-135*			
Surrogate: Decachlorobiphenyl	*0.806*		*ug/L*	*0.7500*		*107*	*82.2-139*			
LCS (A905296-BS1)				Prepared: 05/31/2019 Analyzed: 06/01/2019 01:57						
PCB-1242	11.4	0.13	ug/L	12.50		91.2	70-130			
Surrogate: Tetrachloro-meta-xylene	*0.699*		*ug/L*	*0.7500*		*93.2*	*68.8-135*			
Surrogate: Decachlorobiphenyl	*0.842*		*ug/L*	*0.7500*		*112*	*82.2-139*			
Matrix Spike (A905296-MS1)	**Source: A192212-01**			Prepared: 05/31/2019 Analyzed: 06/01/2019 03:12						
PCB-1242	12.2	0.13	ug/L	12.50	ND	98.0	60-140			
Surrogate: Tetrachloro-meta-xylene	*0.677*		*ug/L*	*0.7500*		*90.3*	*68.8-135*			
Surrogate: Decachlorobiphenyl	*0.806*		*ug/L*	*0.7500*		*108*	*82.2-139*			
Matrix Spike Dup (A905296-MSD1)	**Source: A192212-01**			Prepared: 05/31/2019 Analyzed: 06/01/2019 03:37						
PCB-1242	12.9	0.13	ug/L	12.50	ND	103	60-140	5.27	20	
Surrogate: Tetrachloro-meta-xylene	*0.726*		*ug/L*	*0.7500*		*96.8*	*68.8-135*			
Surrogate: Decachlorobiphenyl	*0.832*		*ug/L*	*0.7500*		*111*	*82.2-139*			
Batch A906171 - EPA 3570										
Blank (A906171-BLK1)				Prepared: 06/05/2019 Analyzed: 06/05/2019 23:45						
PCB-1016	ND	0.10	mg/kg wet							
PCB-1221	ND	0.10	mg/kg wet							
PCB-1232	ND	0.10	mg/kg wet							
PCB-1242	ND	0.10	mg/kg wet							
PCB-1248	ND	0.10	mg/kg wet							
PCB-1254	ND	0.10	mg/kg wet							
PCB-1260	ND	0.10	mg/kg wet							
Total PCBs	ND	0.10	mg/kg wet							
Surrogate: Tetrachloro-meta-xylene	*0.226*		*mg/kg wet*	*0.2400*		*94.4*	*71.5-118*			
Surrogate: Decachlorobiphenyl	*0.229*		*mg/kg wet*	*0.2400*		*95.4*	*56.1-132*			

Pace Analytical®
ECCS Mobile Lab Services

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Madison, WI 53718
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TRC Environmental Corporation, Inc.	Project: MKC Raingarden Sediment Monitoring - Madison, WI
708 Heartland Trail, Ste 3000	Project Number: 323372
Madison WI, 53717	Project Manager: Andrew Stehn

Polychlorinated Biphenyls by EPA Method 8082 - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A906171 - EPA 3570										
LCS (A906171-BS1)				Prepared: 06/05/2019 Analyzed: 06/05/2019 23:20						
PCB-1242	2.10	0.10	mg/kg wet	2.000		105	82.7-118			
Surrogate: Tetrachloro-meta-xylene	*0.228*		*mg/kg wet*	*0.2400*		*95.0*	*71.5-118*			
Surrogate: Decachlorobiphenyl	*0.229*		*mg/kg wet*	*0.2400*		*95.6*	*56.1-132*			
Matrix Spike (A906171-MS1)	**Source: A192212-03**			Prepared: 06/05/2019 Analyzed: 06/06/2019 01:00						
PCB-1242	3.36	0.13	mg/kg dry	2.517	ND	133	61.9-148			
Surrogate: Tetrachloro-meta-xylene	*0.313*		*mg/kg dry*	*0.3020*		*104*	*71.5-118*			
Surrogate: Decachlorobiphenyl	*0.267*		*mg/kg dry*	*0.3020*		*88.3*	*56.1-132*			
Matrix Spike Dup (A906171-MSD1)	**Source: A192212-03**			Prepared: 06/05/2019 Analyzed: 06/06/2019 01:25						
PCB-1242	3.37	0.13	mg/kg dry	2.517	ND	134	61.9-148	0.425	20	
Surrogate: Tetrachloro-meta-xylene	*0.316*		*mg/kg dry*	*0.3020*		*105*	*71.5-118*			
Surrogate: Decachlorobiphenyl	*0.267*		*mg/kg dry*	*0.3020*		*88.3*	*56.1-132*			

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708 Heartland Trail, Ste 3000	Project Number: 323372
Madison WI, 53717	Project Manager: Andrew Stehn

Classical Chemistry Parameters - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A906188 - % Solids										
Duplicate (A906188-DUP1)	**Source: A192335-01**		Prepared: 06/10/2019 Analyzed: 06/11/2019 07:57							
% Solids	98.4	0.00	% by Weight		98.3			0.102	20	

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TRC Environmental Corporation, Inc.	Project: MKC Raingarden Sediment Monitoring - Madison, WI
708 Heartland Trail, Ste 3000	Project Number: 323372
Madison WI, 53717	Project Manager: Andrew Stehn

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit or limit of detection (if listed).
NR	Not Reported
dry	Sample results reported on a dry weight basis. If the word 'dry' does not appear after the units, results are reported on an as-is basis.
RPD	Relative Percent Difference

Pace Analytical - ECCS Division
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CHAIN OF CUSTODY

No. 10502 Page: of:

Lab Work Order #: A192212

Project Number: 323372 PO Number:
Project Name: MKC Rain Garden
Project Location (City, State): Madison, WI
Turn Around (check one): ☒ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): BJW and LCA

Report To: Andrew Stehn
Company: TRC
Address 1: 708 Heartland Trail, Suite 3000
Address 2: Madison, WI 53717
E-mail Address: astehn@trccompanies.com

Invoice To: Same as above
Company:
Address 1:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	Preservation Codes / Analyses Requested: A (PCBs)						Comments	Lab ID	Lab Receipt Time
OUTFALL (5/30/2019) - W	5/30/19	1330	W	2	X							01	
OUTFALL (5/30/2019)	5/30/19	1350	O	1	X							02	
MH-1A (5/30/2019)	5/30/19	1405	O	1	X							03	

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

Relinquished By: Lydia Stehn Date: 5/30/19 Time: 1450
Received By: Jessica Cuva Date: 05-30-19 Time: 1450
Relinquished By: Date: Time:
Received By: Date: Time:

Custody Seal: ☒ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk-In
Receipt Temp: on ice
Thermometer #/ Exp. Date:
Temp Blank: ☐ Y ☐ N

Rev. 12/15