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ENVIRONMENT

Mike Schmoller
Project Manager
Wisconsin Department of Natural Resources
South Central Region
3911 Fish Hatchery Rd
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Subject:
Technical Justification ï Polychlorinated Biphenyl (PCB)-Impacted Soils Beneath the Main Manufacturing Building, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin. Facility ID No. 113125320, BRRTS No. 02-13-001569

Date:
October 22, 2014

Contact:
Jennine Trask

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Our ref:
WI001368.0022

Dear Mr. Schmoller:

On August 27, 2014, Madison-Kipp Corporation (MKC) representatives and ARCADIS personnel met with representatives from the Wisconsin Department of Natural Resources (WDNR) and the United States Environmental Protection Agency (U.S. EPA) to discuss conditions related to MKCôs proposal to cap-in-place the PCB-containing soils beneath the main manufacturing building (building) at the MKC facility located at 201 Waubesa Street, Madison, Wisconsin (Site). This letter includes a Site background, technical justification of the fate and transport of PCBs beneath the building, and recommendations for additional activities. A NR 712.09 submittal certification is included in Attachment A.

Background

Historically hydraulic oils containing PCBs were used at MKC. Records indicate that the last purchase of hydraulic oils containing PCBs was in 1971 (Ecology and Environment, Inc. 1983). The use of hydraulic oils that may have contained PCBs was consistent with industry standards at the time (ARCADIS, 2013a). Extensive investigation and remediation activities have been completed at the Site with regard to PCB-containing soils. Over 1,100 soil samples have been collected to complete the soil delineation (both on- and off-Site). The remediation activities completed outside of the building footprint included: three excavations in the north parking lot, rain garden excavation, and residential excavations. These activities have been documented in separate reports and no further actions are necessary. On-Site soil exceedances remaining in place outside of the building footprint will be managed through maintenance of the paved areas as an engineered barrier (cap). WDNR approved an asphalt cap as the engineered barrier remedy in electronic correspondence dated July 30, 2014. A 6-inch asphalt cap was approved for the

north parking lot, and a 3-inch asphalt cap was approved for the south parking lots. Construction documentation and a cap maintenance plan will be submitted under separate cover. Only the soil beneath the active manufacturing building is addressed in this document.

The following chronology provides a list of the activities completed and the documentation referenced related to the soils beneath the building.

A *Site Investigation Work Plan* was submitted to the WDNR on May 31, 2012, for approval to complete investigation activities at the Site. The WDNR provided a *Conditional Approval* letter dated June 25, 2012, for this work plan. On September 28, 2012, a *Site Investigation Work Plan Addendum, Building Subsurface Investigation* (Addendum) was submitted to the WDNR to present the proposed investigation activities to fill data gaps concerning potential source areas beneath the building floor. The Addendum was approved by WDNR in a letter dated October 17, 2012. A summary letter, *Building Subsurface Investigation Summary,* dated February 14, 2013, was submitted to the WDNR to document the Addendum activities.

On March 15, 2013, a *Site Investigation and Interim Actions Report, February 2012 ï January 2013* (SI Report) was submitted to the WDNR to summarize investigation activities and results for the reporting period. On May 29, 2013, a *Supplemental Site Information/Addendum 1* (SI Addendum 1) was submitted to the WDNR to provide further information regarding the Site. The SI Report was reviewed by the WDNR and a response letter dated June 20, 2013, was prepared that requested a work plan to address ösampling for degree and extent of PCB [polychlorinated biphenyls] and VOC [volatile organic compounds] soil contamination beneath the MKC manufacturing buildings.ò

On July 8, 2013, ARCADIS met with the WDNR to discuss the agencyôs June 20, 2013, response letter and requested a joint meeting with the WDNR and U.S. EPA to clarify the investigation expectations for beneath the building. On July 23, 2013, ARCADIS met with the WDNR and U.S. EPA to discuss the investigation results completed to date, conduct a Site walk, and discuss the objective of additional investigation activities.

Based on the July 23, 2013 meeting, a *Supplemental Work Plan for Polychlorinated Biphenyl Building Subsurface Investigation* (Work Plan) was prepared and submitted to WDNR and U.S. EPA on August 1, 2013. The objective of the supplemental activities was to complete additional delineation related to VOCs and PCBs beneath

the building. The Work Plan was approved by WDNR in cooperation with the U.S. EPA in the *Madison Kipp Corporation (MKC) Work Plan Reviews* letter, dated October 9, 2013. The investigation activities were initiated in December 2013 and documented in the *Supplemental Building Interior Polychlorinated Biphenyl Work Plan Subsurface Investigation Summary,* dated April 22, 2014.

In addition to the investigation and remediation activities presented above, MKC coordinated multiple maintenance activities within the building footprint that involved the sampling and removal of PCB-containing soils and/or concrete, including removal of the historical piping trench from the center aisle of the facility. Additional details related to the maintenance activities completed by MKC were provided to WDNR and are included in Attachment B.

Following completion and documentation of the above activities, MKC requested a meeting with the U.S. EPA and WDNR to gain a clear understanding of the next steps required to address PCBs related to the Site. MKC proposed that the material present beneath the manufacturing building remain in place beneath the cap of the building as a final action. Based on the August 27, 2014, meeting, the U.S. EPA and WDNR requested a technical justification supporting MKC's proposal to leave the PCB-containing soils in place beneath the building, and completion of wipe sampling and indoor air sampling within the building for PCBs. This document provides the requested technical justification. The wipe sampling and indoor air sampling will be addressed under separate cover.

Technical Justification – PCB Fate and Transport

ARCADIS conducted a fate and transport evaluation to assess both current risks associated with the presence of PCBs in soil beneath the building, and potential future risks that may be associated with a remedial action that involves leaving these PCB-containing soils in place and restricting direct contact (i.e. cap-in-place as a final remedy). Accordingly, the primary exposure route considered in this evaluation is potential transport of PCBs via groundwater migration.

The fate and transport evaluation used Site-specific data to the extent available, regional information where necessary, and additionally, standard environmental engineering and hydrogeologic calculation methods. The evaluation was based on a Conceptual Site Model (CSM) and published literature values for PCB physical and chemical properties.

As discussed below, results of the evaluation demonstrate that PCBs detected in soil samples beneath the building, though elevated in some locations and residing potentially near the water table, are strongly adsorbed to naturally-occurring organic matter in the soils and are immobile in groundwater, and there is no current or future risk of exposure via groundwater migration. Samples collected from monitoring wells outside of the building footprint confirm that PCBs have not migrated beyond the footprint of the building over the last 3 to 4 decades.

Conceptual Site Model

The Site is located at 201 Waubesa Street in the city of Madison, Dane County, Wisconsin, on the isthmus between Lake Mendota and Lake Monona (Figure 1). Regional hydrogeology near the Site has been investigated by the Wisconsin Geological Natural History Survey and documented in publications such as Bradbury et al (1999). Additionally, Site-specific hydrogeology has been thoroughly investigated by MKC and documented in a March 2013 Site Investigation and Interim Actions Report (ARCADIS, 2013c). The remainder of this section summarizes key elements of the CSM relevant to evaluating PCB fate and transport beneath the building.

PCBs have been detected at concentrations above risk-based screening levels in soil samples collected beneath the building footprint (ARCADIS, 2013b). The highest concentrations of PCBs were detected in soil samples collected directly beneath the buildingôs concrete-lined center aisle, which historically contained a central piping trench running south to north through the center of the facility. The center aisle was reportedly constructed to house piping for natural gas, vacuum, hydraulic oil, and cooling water for die-casting. These sub-surface PCB concentrations, which are isolated from precipitation infiltration due to the buildingôs roof and floor slab, are believed to have been vertically transported historically as a result of the presence of hydraulic oils in the trench which produced a downward force allowing migration. However, this condition was addressed when some time prior to 1990, liquid wastes were collected and removed from the base of the trench, backfilled with clean sand and capped with concrete, abandoning the trench and former piping in place. This removed the vertical hydraulic force and therefore, the sub-surface PCBs were no longer subject to vertical downward transport through the vadose zone. Additionally, complete trench removal was completed via excavation in 2014. Specifically, 54 tons of concrete and 279 tons of mixed concrete, soil, and subsurface piping were excavated in and beneath the center aisle. The excavation was backfilled with clean imported fill consisting of 3-inch crushed stone and IJ-inch fine stone, and topped with a finished concrete floor (MKC, 2014).

PCB Delineation, Monitoring Well Installation, and Near Surface Geology

Fifty-four soil borings have been advanced in relation to the building interior investigation activities between October 2012 and February 2014, in an effort to delineate the extent of sub-surface PCBs in and around the center aisle (ARCADIS 2013 and 2014) (Figure 2). During the completion of these soil borings, 115 soil samples were collected at various vertical intervals between ground surface and the water table (a depth of about 25 feet below ground surface [ft bgs]), and submitted for laboratory analysis of various constituents including PCBs (ARCADIS 2013).

A summary of the soil analytical results for PCBs is presented in Table 1. As shown, PCBs were detected in 91 of the 115 soil samples (79%) with 41 samples exhibiting PCB concentrations above the Industrial Direct Contact Residual Contaminant Level (IDC RCL) of 0.744 milligrams per kilograms (mg/kg) per the WDNR Remediation and Redevelopment Program. Also as shown, 39 samples exhibited PCB concentrations above the U.S. EPA high occupancy cleanup level of 1 mg/kg. The highest concentrations of PCBs were detected in soil samples collected at the following soil sampling locations (Figure 3):

- B-148 (20,000 mg/kg ï 5.8 to 7.8 ft bgs);
- B-149 (10,000 mg/kg ï 0.7 to 2.7 ft bgs and 12,000 mg/kg ï 5.7 to 7.7 ft bgs);
- B-150 (2,800 mg/kg ï 1 to 3 ft bgs);
- B-158 (1,900 mg/kg ï 4 to 6 ft bgs);
- B-179 (2,300 mg/kg ï 4 to 6 ft bgs and 3,400 mg/kg ï 9 to 11 ft bgs); and
- B-182 (2,300 mg/kg ï 13.5 to 15.5 ft bgs).

Furthermore, the laboratory analytical results indicate that PCB Aroclor 1242 was the most prevalent congener detected in Site soil samples, which coincides with the general type of PCB products used in the 1950s and 1960s and is consistent with the Siteôs operational history respective of hydraulic oil usage (Table 1).

Based on the concentrations of PCBs detected in soil samples collected at Soil Borings B-148 through B-150, one groundwater monitoring well (MW-22S) and one piezometer (MW-22D) were installed near these soil borings and sampled to evaluate if PCBs were impacting groundwater. Additionally, based on the

concentrations of PCBs detected in soil samples collected at soil borings B-158 and B-160, one groundwater monitoring well (MW-23S) and one piezometer (MW-23D) were installed near these soil borings and sampled. During the installation of these monitoring wells and piezometers, additional soil samples were collected to help delineate the vertical extent of PCBs in soil. Four soil samples were collected at Monitoring Wells MW-22 and MW-23. Based on inspection of these soil samples by the on-Site geologist, two of these soil samples were collected above the water table at a depth of 27 to 29 ft bgs and two were collected below the water table at a depth of 34 to 36 ft bgs. The two soil samples collected during the drilling of Monitoring Well MW-22, one being above and the other below the water table at the time of sample collection, were found to contain PCBs at detectable concentrations; however, none of the results were above the IDC RCL. The soil samples collected during the drilling of MW-23, one being above and the other below the water table at the time of sample collection, did not contain PCBs above the laboratory method detection limits.

Figure 3 shows contours of PCB concentrations detected in soil samples collected beneath the building along a transect coincident with the center aisle area. As shown, the vertical extent of PCBs in soil directly beneath the center aisle area has been approximately delineated, and is limited to within approximately 25 feet of ground surface. The exceptions to this are Soil Borings B-180 and B-182 which were terminated approximately 15 ft bgs due to refusal. The soil analytical results in Table 1 and on Figures 3 and 4 show that the extent of PCBs beneath the building is generally delineated. In terms of near surface geology, the geologic profile beneath the building relevant to this evaluation consists of 6 to 12 inches of concrete overlying 4 to 8 feet of dark yellowish brown clay with little to some silt, trace fine sand or gravel. Clay was reported as generally stiff with low to moderate plasticity. Underlying the clay is very fine to fine brownish yellow sand containing trace to little gravel. Sandstone bedrock was encountered at approximately 36 ft bgs.

Hydraulic Conductivity

Hydraulic testing in unconsolidated soils at the Site was performed in 2012 and 2013 at Monitoring Wells MW-1, MW-2S, MW-11S, MW-3S, and MW-4S, which are spatially distributed across the Site (Figure 5). Per location, multiple ñslugòtests were performed at these monitoring wells using the bail-down method via groundwater column removal of approximately 2 to 3 feet. A whale pump was used in conjunction with high resolution pressure transducer data collection to capture drawdown and recovery of groundwater within each well. The aquifer test analysis program AQTESOLV™ Version 4.50 was used to process data and perform calculations.

All tests were analyzed using the Bouwer and Rice Solution, a semi-analytical method for the analysis of slug tests in a fully or partially penetrating well in a confined or unconfined aquifer (Bouwer 1989). Results showed hydraulic conductivity of the sands above the sandstone bedrock at the Site to vary between 0.1 and 2 feet per day (ft/day) (ARCADIS 2013), with a geometric mean of 0.5 ft/day (Table 2), which is consistent with published literature values for similar geologic environments (e.g., Freeze and Cherry 1979).

Groundwater Depth and Hydraulic Gradient

Average depth to groundwater beneath the building is approximately 25 ft bgs. Groundwater levels generally decrease from northwest to southeast across the site, because they are influenced by the lock and dam structure where the Yahara River drains from Lake Mendota south into Lake Monona. Surface water elevations in Lake Mendota are controlled by a lock and dam system and remain approximately four feet higher than surface water elevations in Lake Monona, resulting in a regional hydraulic gradient across site of approximately 0.0014 feet per foot (ft/ft) oriented northwest to southeast (Figure 1) (Table 2).

Groundwater Seepage Velocity

Organic constituents can potentially be transported via groundwater migration along with the bulk movement of groundwater in a mechanism known as advection. Seepage velocity (v_w), also known as average linear groundwater velocity, is the rate of actual groundwater movement at and below the water table, which will be faster than the velocity of organic constituents present in groundwater for reasons discussed below. Seepage velocity was calculated by the Darcy equation (Freeze and Cherry 1979)

$$v_w = K\, i\, /\, n_e$$

where K is the hydraulic conductivity of the saturated sands, i is the hydraulic gradient, and n_e is the mobile portion of porosity, recognizing that not all pore spaces contribute to groundwater flow and transport.

Given a measured Site hydraulic conductivity for saturated sands of 0.5 ft/day, a Site hydraulic gradient of 0.0014, and an assumed mobile porosity of 14.5 percent (Payne 2008), the groundwater seepage velocity in the sands at or below the water table at the Site is approximately 2 feet per year (ft/yr) based on a Darcy Law calculation (Table 2).

PCB Fate and Transport

Mechanisms that influence the advective transport of PCBs in groundwater include hydrophobic sorption to soil (i.e., adsorption) and in-situ biodegradation. PCBs are generally not amenable to in-situ biodegradation. Consequently, hydrophobic sorption is the most important factor in evaluating the fate and transport of PCBs in groundwater and is discussed in more detail below

Adsorption

Most organic constituents present in groundwater migrate slower than the groundwater seepage velocity due to their tendency to partition out of the water phase and adsorb onto the surfaces of solid organic matter that naturally occurs in soil. This adsorption mechanism occurs when organic constituents are hydrophobic causing a slowing of constituent migration rate relative to groundwater flow during transport.

The extent to which an organic chemical in groundwater adsorbs to naturally occurring solid organic matter can be quantified using a retardation factor which accounts for properties of both the organic chemical and the specific soil in which the chemical resides. The retardation factor for a specific chemical (*R*) may be calculated as (Freeze and Cherry, 1979):

$$R = 1 + \frac{k_{oc} f_{oc} \rho_b}{n}$$

where K_{oc} is the chemical-specific organic-carbon partition coefficient tabulated in literature, f_{oc} is the fraction of solid organic carbon naturally present in soil, ρ_b is the soil bulk density, and *n* is the total porosity of the soil.

The organic-carbon partition coefficient (K_{oc}) for PCB Aroclor 1242 is 33,900 liters per kilogram (L/kg) (Montgomery 1996). A soil total porosity (n) value of 40 percent was assumed, which is consistent with published literature values for similar geologic environments (Freeze and Cherry, 1979). A soil bulk density (ρ_b) value of 2 kilograms per liter (kg/L) was assumed also consistent with published literature values for similar geologic environments (Payne 2008). Lastly, a fraction of organic carbon (f_{oc}) value of 0.002 was assumed, which is a default value used in many risk assessments (IDEM RISC 2001). Table 2 tabulates respective fate and transport parameters.

These parameters result in a Site-specific retardation factor for PCB Aroclor 1242 of 340 (unitless), which was used throughout the remainder of this evaluation. This

result indicates that PCB Aroclor 1242 will migrate on average 340 times slower than the groundwater velocity.

PCB Migration Rate in Groundwater

The buildingôs roof and slab function as engineering controls in that they prevent both direct contact as well as infiltration through the vadose zone. However, in the unlikely event that PCBs reach the water table or that the water table rises up within the PCB-containing soil zone, it is theoretically possible for PCBs to be transported horizontally at or below the water table along with the regional hydraulic gradient. In this case, the relevant equation is $v_c = v_w / R$. The average linear groundwater velocity in saturated Site soil (v_w) based on Site-specific measurements of hydraulic conductivity was estimated previously at approximately 2 ft/yr. Combining this with the Site-specific PCB Aroclor 1242 retardation factor (R) of 340 gives a horizontal PCB migration rate in groundwater of 5×10^{-3} ft/yr, which is equivalent to roughly 2 millimeters per year, practically negligible. Given these results, it will require approximately 170 years for PCBs to migrate one foot in groundwater. The negligible horizontal PCB migration rate in groundwater at or below the water table reflects the fact that PCBs are very highly sorptive in natural soils, and this adsorption mechanism functions as a significant resisting force to migration.

Technical Justification – Summary and Conclusions

The fate and transport of PCBs in soil beneath the MKC manufacturing facility was evaluated based on the CSM, environmental engineering and hydrogeologic calculation methods. The purpose of the fate and transport evaluation was to help assess both current risks associated with the presence of PCBs in soil beneath the building and potential future risks that may be associated with a remedial action that involves leaving the PCB-containing soil in place and using the building slab as an engineering control to restrict direct contact with the secondary benefit of preventing infiltration through the vadose zone (i.e. cap-in-place final remedy).

Results of the PCB fate and transport evaluation indicate the following conclusions:

- The horizontal and vertical extent of PCBs in soils beneath the building has been delineated through the completion of 54 soil borings and analysis of 115 soil samples, to a sufficient degree necessary to support this risk assessment; further

delineation is expected to simply improve confidence in the conclusions provided herein;

- PCBs in soils located directly beneath the building and are not subject to vertical downward transport through the vadose zone via infiltrating precipitation due to the presence of the building's roof and slab;
- The primary PCB congener present in Site soils is Aroclor 1242;
- The Site-specific retardation factor for PCB Aroclor 1242 is 340;
- The groundwater flow rate in saturated sands at or below the water table is approximately 2 ft/yr based on Site-specific measurements of hydraulic conductivity, which reflects the fact that near saturated surface soils beneath the building are fine to very fine grained sands and provide significant resistance to groundwater flow;
- The horizontal PCB migration rate in groundwater is approximately 5×10^{-3} ft/yr, which is practically negligible. Given these results, it will require approximately 170 years for PCBs to migrate 1 foot in groundwater;
- The negligible PCB migration rate in Site groundwater reflects the fact that PCBs are very highly sorptive in natural soils, and this adsorption mechanism functions as a significant resisting force to migration; and
- Groundwater quality results from wells installed outside the building's footprint have confirmed that PCBs have not migrated beyond the footprint of the building in 3 to 4 decades and the removal of the trench materials has removed the migrating force.

Based on these results, it can be concluded that PCBs in soils beneath the building do not pose any current risks to receptors via a groundwater migration pathway or direct contact. Furthermore, it can be concluded that leaving the PCBs in place as part of a Site-wide remedial action will not pose future risks to receptors via a groundwater migration pathway or direct contact. Therefore, an engineering control remedy is appropriate for PCBs in soils beneath the building. The appropriateness of the cap-in-place final remedy will be evaluated through continued performance groundwater monitoring.

Requested Activities

Based on discussions with WDNR and U.S. EPA, the following activities will be implemented to address the remaining PCB-containing soils beneath the MKC building:

- Supplemental soil data collection
- Groundwater performance monitoring

Each of these activities is discussed in more detail below.

Supplemental Soil Data Collection

As requested during the August 27, 2014, meeting, soil sampling will be completed to provide additional data to document PCB concentrations beneath the building. This work is anticipated to simply confirm the conclusions contained herein. The *Supplemental Work Plan for Polychlorinated Biphenyl Building Subsurface Investigation* is included as Attachment C to this document.

Groundwater Performance Monitoring

As part of the overall Site groundwater monitoring program as presented in the 2013 Annual Report and accepted by WDNR, groundwater samples are collected on a semi-annual basis (April and October) from the monitoring wells/piezometers located within the building (MW-22S, MW-22D, MW-23S, and MW-23D). As requested during the August 27, 2014, meeting, the groundwater samples collected from the two wells and two piezometers within the building will be analyzed for dissolved VOCs and PCBs. Results of the groundwater performance monitoring will continue to be reported semi-annually or another agreed upon schedule with the WDNR.

Closing

If you have any questions regarding this letter, please contact us at (414) 276-7742.

Sincerely,

ARCADIS U.S., Inc.

Chris Kubacki, PE
Senior Engineer

David Lipson
Principal Scientist

Jennine Trask, PE
Project Manager

Attachments:

Table 1 – Summary of Soil Analytical Results, Building Interior
Table 2 – Hydraulic and PCB Fate and Transport Parameters

Figure 1 – Site Location Map
Figure 2 – Soil Boring and Well Locations Beneath Building
Figure 3 – Total PCB Isoconcentration Beneath Building Map
Figure 4 – Interior Building Trench Cross Section
Figure 5 – Well Locations

Attachment A Submittal Certification
Attachment B Madison-Kipp Maintenance Activities
Attachment C Supplemental Building Interior Polychlorinated Biphenyl Investigation Work Plan

Electronic Copies:
David Crass – Michael Best
Alina Satoski – Madison-Kipp
Kenneth Zolnierczyk – U.S. EPA

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Tables

Table 1
Summary of Soil Analytical Results, Building Interior

Madison Kipp Corporation
Madison, Wisconsin

Boring ID	Industrial	EPA High	TSCA	B-137		B-138	B-139		B-140
Sample Date	RCL	Cleanup Level	Limit	10/16/2012	10/16/2012	10/16/2012	10/16/2012	10/16/2012	10/16/2012
Sample Interval (feet bls)	Direct Contact	Occupancy	Disposal	2-4	4-6	1.8-3.1	0.9-2.1	8-9.7	2-4
VOCs									
1,3-Dichlorobenzene	297	NE	NE	< 0.016	< 0.015	<0.016	<0.017	<0.014	<0.016
1,4-Dichlorobenzene	17.5	NE	NE	<0.011	<0.01	<0.011	<0.011	<0.0093	<0.011
1,2,3-Trichlorobenzene	151	NE	NE	<0.021	<0.02	<0.022	<0.023	<0.019	<0.022
1,2,4-Trichlorobenzene	98.7	NE	NE	<0.023	<0.022	<0.024	<0.024	<0.02	<0.023
1,2,4-Trimethylbenzene	219	NE	NE	<0.013	<0.012	<0.013	<0.014	<0.011	<0.013
1,2-Dichlorobenzene	376	NE	NE	<0.013	<0.012	<0.013	<0.013	<0.011	<0.013
1,3,5-Trimethylbenzene	182	NE	NE	<0.013	<0.012	<0.013	<0.013	<0.011	<0.013
cis-1,2-Dichloroethene	2,040	NE	NE	<0.0075	<0.0072	<0.0078	<0.0079	<0.0066	<0.0076
Ethylbenzene	37	NE	NE	<0.0077	<0.0074	<0.008	<0.0081	<0.0067	<0.0078
Isopropylbenzene	268	NE	NE	<0.015	<0.015	<0.016	<0.016	<0.013	<0.016
Naphthalene	26	NE	NE	<0.03	<0.029	<0.031	<0.032	<0.026	<0.031
n-Butylbenzene	108	NE	NE	<0.0079	<0.0075	<0.0082	<0.0083	<0.0069	<0.008
N-Propylbenzene	264	NE	NE	<0.011 *	<0.01 *	<0.011 *	<0.011 *	<0.0094 *	<0.011 *
p-Isopropyltoluene	162	NE	NE	<0.011	<0.011	<0.012	<0.012	<0.0099	<0.011
sec-Butylbenzene	145	NE	NE	<0.0094	<0.009	<0.0098	<0.0099	<0.0082	<0.0095
tert-Butylbenzene	183	NE	NE	<0.0083	<0.008	<0.0086	<0.0088	<0.0073	<0.0084
Tetrachloroethene	153	NE	NE	0.12	2.6	0.31	0.12	<0.0089	0.057 J
Toluene	818	NE	NE	<0.007	<0.0067	<0.0073	<0.0074	<0.0062	<0.0071
trans-1,2-Dichloroethene	976	NE	NE	<0.015	<0.015	<0.016	<0.016	<0.013	<0.015
Trichloroethene	8.81	NE	NE	<0.011	0.11	<0.012	<0.012	<0.01	<0.011
Vinyl chloride	2.03	NE	NE	<0.0063	<0.0061	<0.0066	<0.0067	<0.0056	<0.0064
Xylenes, Total	258	NE	NE	<0.0042	<0.004	<0.0043	<0.0044	<0.0037	<0.0042
PCBs									
Aroclor-1242	0.744	NE	NE	0.011 J	<0.0063	<0.0067	<0.0068	0.019	<0.0064
Aroclor-1248	0.744	NE	NE	<0.0076	<0.0075	<0.0081	<0.0082	<0.0069	<0.0076
Aroclor-1254	0.744	NE	NE	<0.0042	<0.0041	<0.0044	0.16	0.013 J	<0.0042
Aroclor-1260	0.744	NE	NE	<0.0095	<0.0094	<0.01	<0.01	<0.0086	<0.0095
Total Detected PCBs	NE	1	50	0.011	ND	ND	0.16	0.032	ND

Notes on Page 13.

Table 1
Summary of Soil Analytical Results, Building Interior

Madison Kipp Corporation
Madison, Wisconsin

Boring ID	B-141	B-142		B-143	B-144		B-145		B-146	
Sample Date	10/16/2012	10/16/2012	10/16/2012	10/17/2012	10/17/2012	10/17/2012	10/15/2012	10/15/2012	10/25/2012	10/25/2012
Sample Interval (feet bls)	5.8-7.8	0.6-2.6	13.3-15.3	0.5-1.9	2-4	5.7-7.7	0.6-2.6	5.6-7.6	2-4	4-6
VOCs										
1,3-Dichlorobenzene	<0.015	<0.016	<0.014	<0.015	<0.016	<0.015	<0.016	<0.016	<0.026	<0.026
1,4-Dichlorobenzene	<0.01	<0.011	<0.0095	<0.01	<0.011	<0.01	<0.011	<0.011	<0.017	<0.018
1,2,3-Trichlorobenzene	<0.021	<0.021	<0.019	<0.021	<0.021	<0.021	<0.022	<0.021	<0.035	<0.035
1,2,4-Trichlorobenzene	<0.023	<0.023	<0.021	<0.023	<0.023	<0.023	<0.024	<0.023	<0.038	<0.038
1,2,4-Trimethylbenzene	<0.013	<0.013	<0.011	<0.013	<0.013	<0.013	<0.013	<0.013	<0.021	<0.021
1,2-Dichlorobenzene	<0.012	<0.012	<0.011	<0.012	<0.013	<0.012	<0.013	<0.012	<0.02	<0.021
1,3,5-Trimethylbenzene	<0.012	<0.012	<0.011	<0.012	<0.013	<0.012	<0.013	<0.012	<0.021	<0.021
cis-1,2-Dichloroethene	<0.0074	<0.0074	<0.0067	<0.0073	<0.0075	<0.0074	<0.0077	<0.0074	<0.012	<0.012
Ethylbenzene	<0.0076	<0.0076	<0.0068	<0.0075	<0.0077	<0.0076	<0.0079	<0.0076	<0.013	<0.013
Isopropylbenzene	<0.015	<0.015	<0.014	<0.015	<0.015	<0.015	<0.016	<0.015	<0.025	<0.025
Naphthalene	<0.03	<0.03	<0.027	<0.029	<0.03	<0.03	<0.031	<0.03	<0.049	<0.05
n-Butylbenzene	<0.0077	<0.0078	<0.007	<0.0077	<0.0079	<0.0078	<0.0081	<0.0078	<0.013	<0.013
N-Propylbenzene	<0.011 *	<0.011 *	<0.0095 *	<0.01	<0.011	<0.011	<0.011 *	<0.011 *	<0.017	<0.018
p-Isopropyltoluene	<0.011	<0.011	<0.01	<0.011	<0.011	<0.011	<0.012	<0.011	<0.018	<0.019
sec-Butylbenzene	<0.0093	<0.0093	<0.0084	<0.0092	<0.0094	<0.0093	<0.0097	<0.0093	<0.015	<0.016
tert-Butylbenzene	<0.0082	<0.0082	<0.0074	<0.0081	<0.0083	<0.0082	<0.0085	<0.0082	<0.014	<0.014
Tetrachloroethene	<0.01	0.38	<0.0091	0.051 J	<0.01	<0.01	0.21	<0.01	0.29	1.3
Toluene	<0.0069	<0.007	<0.0062	<0.0069	<0.0071	<0.0069	<0.0072	0.0085 J	<0.011	<0.012
trans-1,2-Dichloroethene	<0.015	<0.015	<0.014	<0.015	<0.015	<0.015	<0.016	<0.015	<0.025	<0.025
Trichloroethene	<0.011	<0.011	<0.01	<0.011	<0.011	<0.011	<0.012	<0.011	<0.019	<0.019
Vinyl chloride	<0.0062	<0.0063	<0.0057	<0.0062	<0.0064	<0.0063	<0.0065	<0.0063	<0.01	<0.01
Xylenes, Total	<0.0041	<0.0041	<0.0037	<0.0041	<0.0042	<0.0041	<0.0043	<0.0041	<0.0068	<0.0069
PCBs										
Aroclor-1242	0.017 J	0.063	<0.0058	**33 B**	**12 B**	0.012 J	0.44	0.021	<5.7	<0.063
Aroclor-1248	<0.0078	<0.0078	<0.007	<0.76	<0.31	<0.0076	<0.016	<0.0076	**46**	**1.3**
Aroclor-1254	<0.0043	0.041	<0.0038	<0.42	<0.17	<0.0042	<0.0088	<0.0041	<3.8	<0.042
Aroclor-1260	<0.0097	<0.0097	<0.0087	<0.95	<0.38	<0.0095	<0.02	<0.0094	<8.5	<0.095
Total Detected PCBs	0.017	0.104	ND	***33***	***12***	0.012	0.44	0.021	***46***	***1.3***

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Table 1
Summary of Soil Analytical Results, Building Interior

Madison Kipp Corporation
Madison, Wisconsin

Boring ID	B-147		B-148			B-149				B-150
Sample Date	10/16/2012	10/25/2012	10/19/2012	1/2/2014	1/2/2014	10/19/2012	10/19/2012	1/2/2014	1/2/2014	10/19/2012
Sample Interval (feet bls)	1.9-3.9	6-8	5.8-7.8	10-12	17.5-19.5	0.7-2.7	5.7-7.7	8-10	10-11.4	1.0-3.0
VOCs										
1,3-Dichlorobenzene	<0.015	<0.023	<0.015	<0.022	<0.023	<0.015	<0.015	<0.023	<0.022	<0.016
1,4-Dichlorobenzene	<0.01	<0.016	<0.01	<0.015	<0.015	<0.01	<0.0099	<0.016	<0.015	<0.011
1,2,3-Trichlorobenzene	<0.021	<0.032	<0.02	<0.03	<0.031	<0.021	<0.02	<0.031	<0.03	<0.021
1,2,4-Trichlorobenzene	<0.023	<0.034	0.15	0.16 J	<0.033	<0.023	<0.021	<0.034	<0.032	<0.023
1,2,4-Trimethylbenzene	<0.013	<0.019	0.53	0.2	<0.019	0.29	<0.012	0.31	0.28	<0.013
1,2-Dichlorobenzene	0.053 J	<0.019	<0.012	<0.018	<0.018	<0.012	<0.012	<0.018	<0.017	<0.013
1,3,5-Trimethylbenzene	<0.012	<0.019	0.19	0.053 J	<0.018	0.1 J	<0.012	0.096 J	0.091 J	<0.013
cis-1,2-Dichloroethene	<0.0074	<0.011	0.13	<0.011	<0.011	<0.0074	<0.007	<0.011	<0.01	<0.0075
Ethylbenzene	<0.0076	<0.011	<0.0072	<0.011	<0.011	<0.0076	<0.0071	<0.011	<0.011	<0.0077
Isopropylbenzene	<0.015	<0.023	0.21	<0.022	<0.022	0.043 J	<0.014	<0.022	<0.021	<0.015
Naphthalene	<0.03	<0.045	0.15	0.089 J	<0.044	<0.03	<0.028	<0.044	0.11 J	<0.03
n-Butylbenzene	<0.0077	<0.012	<0.0074	0.059 J	<0.011	<0.0078	<0.0073	0.069 J	0.066 J	<0.0079
N-Propylbenzene	<0.01 *	<0.016	0.069 J	<0.015	<0.016	0.038 J	<0.0099	<0.016	<0.015	<0.011
p-Isopropyltoluene	<0.011	<0.017	0.064 J	<0.016	<0.016	<0.011	<0.01	<0.017	<0.016	<0.011
sec-Butylbenzene	<0.0092	<0.014	0.073	<0.013	<0.014	<0.0093	<0.0087	<0.014	<0.013	<0.0094
tert-Butylbenzene	<0.0082	<0.012	<0.0078	<0.012	<0.012	<0.0082	<0.0077	<0.012	<0.011	<0.0083
Tetrachloroethene	0.036 J	0.041 J	2	1.4	<0.015	0.12	0.046 J	0.077 J	0.3	0.038 J
Toluene	<0.0069	<0.01	<0.0066	<0.0099	<0.01	0.01 J	<0.0065	<0.01	0.03	<0.007
trans-1,2-Dichloroethene	<0.015	<0.023	<0.014	<0.022	<0.022	<0.015	<0.014	<0.022	<0.021	<0.015
Trichloroethene	<0.011	<0.017	0.068	<0.016	<0.016	0.016 J	<0.011	<0.017	<0.016	<0.011
Vinyl chloride	<0.0062	<0.0094	0.02	<0.009	<0.0092	<0.0063	<0.0059	<0.0093	<0.0088	<0.0064
Xylenes, Total	<0.0041	<0.0062	0.092	<0.0059	<0.0061	0.051	<0.0039	0.05	0.072	<0.0042
PCBs										
Aroclor-1242	0.58	<0.0062	**20,000**	**1,600**	**1.1**	**10,000**	**12,000**	**800**	**27**	**2,800**
Aroclor-1248	<0.015	<0.0075	<380	<34	<0.035	<190	<370	<35	<1.3	<79
Aroclor-1254	<0.0083	<0.0041	<210	<19	<0.019	<100	<200	<19	<0.72	<43
Aroclor-1260	<0.019	<0.0093	<470	<43*	<0.043*	<240	<460	<44	<1.6	<99
Total Detected PCBs	0.58	ND	***20,000***	***1,600***	***1.1***	***10,000***	***12,000***	***800***	***27***	***2,800***

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Table 1
Summary of Soil Analytical Results, Building Interior

Madison Kipp Corporation
Madison, Wisconsin

Boring ID	B-150 (continued)		B-151		B-152	B-153		B-154	B-155	
Sample Date	1/2/2014	1/2/2014	10/19/2012	10/19/2012	10/19/2012	10/19/2012	10/19/2012	10/19/2012	10/19/2012	10/19/2012
Sample Interval (feet bls)	13-15	18-20	2-4	9.1-11.1	1.5-3.5	0.7-2.7	13.8-15.8	5.2-7.2	1.9-3.9	5.0-7.0
VOCs										
1,3-Dichlorobenzene	<0.022	<0.021	<0.016	<0.013	<0.014	<0.015	<0.014	<0.013	<0.015	<0.013
1,4-Dichlorobenzene	<0.015	<0.014	<0.011	<0.009	<0.0097	<0.01	<0.0092	<0.0089	<0.01	<0.0089
1,2,3-Trichlorobenzene	<0.03	<0.029	<0.021	<0.018	<0.019	<0.021	<0.019	<0.018	<0.02	<0.018
1,2,4-Trichlorobenzene	<0.033	<0.031	<0.023	<0.019	<0.021	<0.023	<0.02	<0.019	<0.022	<0.019
1,2,4-Trimethylbenzene	0.079 J	0.1 J	0.2	0.13	<0.012	<0.013	<0.011	<0.011	<0.012	<0.011
1,2-Dichlorobenzene	<0.018	<0.017	<0.012	<0.011	<0.011	<0.012	<0.011	<0.011	<0.012	<0.01
1,3,5-Trimethylbenzene	<0.018	<0.017	0.061 J	0.04 J	<0.011	<0.012	<0.011	<0.011	<0.012	<0.011
cis-1,2-Dichloroethene	0.18	0.36	<0.0075	0.03 J	<0.0069	<0.0074	<0.0065	<0.0063	<0.0072	<0.0063
Ethylbenzene	<0.011	<0.01	<0.0076	<0.0065	<0.007	<0.0076	<0.0067	<0.0065	<0.0074	<0.0064
Isopropylbenzene	<0.022	<0.021	<0.015	<0.013	<0.014	<0.015	<0.013	<0.013	<0.015	<0.013
Naphthalene	<0.043	0.095 J	0.087 J	0.075 J	<0.028	<0.03	<0.026	<0.025	<0.029	<0.025
n-Butylbenzene	<0.011	<0.011	0.047 J	<0.0067	<0.0072	<0.0078	<0.0068	<0.0066	<0.0075	<0.0066
N-Propylbenzene	<0.015	<0.014	<0.011	<0.009	<0.0097	<0.011	<0.0093	<0.009	<0.01	<0.0089
p-Isopropyltoluene	<0.016	<0.015	<0.011	<0.0095	<0.01	<0.011	<0.0098	<0.0095	<0.011	<0.0094
sec-Butylbenzene	<0.013	<0.013	<0.0093	<0.0079	<0.0086	<0.0093	<0.0082	<0.0079	<0.009	<0.0079
tert-Butylbenzene	<0.012	<0.011	<0.0083	<0.007	<0.0076	<0.0082	<0.0072	<0.007	<0.0079	<0.0069
Tetrachloroethene	1.9	3.1	0.11	0.51	<0.0093	<0.01	<0.0089	<0.0086	<0.0097	<0.0085
Toluene	<0.0099	<0.0095	0.012 J	<0.0059	<0.0064	<0.0069	<0.0061	<0.0059	<0.0067	<0.0059
trans-1,2-Dichloroethene	<0.022	<0.021	<0.015	<0.013	<0.014	<0.015	<0.013	<0.013	<0.015	<0.013
Trichloroethene	0.068	0.14	<0.011	0.013 J	<0.01	<0.011	<0.0099	<0.0095	<0.011	<0.0095
Vinyl chloride	<0.009	<0.0086	<0.0063	<0.0054	<0.0058	<0.0063	<0.0055	<0.0053	<0.0061	<0.0053
Xylenes, Total	<0.0059	<0.0057	0.041	0.016 J	<0.0038	<0.0041	<0.0036	<0.0035	<0.004	<0.0035
PCBs										
Aroclor-1242	**12**	0.32	**25**	**1**	0.57	0.015 J	<0.0057	<0.0054	<0.0063	0.0096 J
Aroclor-1248	<0.68	<0.0068	<0.78	<0.032	<0.036	<0.0077	<0.0068	<0.0065	<0.0076	<0.0065
Aroclor-1254	<0.37	<0.0037	<0.43	<0.018	<0.019	<0.0042	<0.0037	<0.0036	<0.0041	<0.0036
Aroclor-1260	<0.85*	<0.0085*	<0.97	<0.04	<0.044	<0.0096	<0.0085	<0.0081	<0.0094	<0.0081
Total Detected PCBs	***12***	0.32	***25***	***1***	0.57	0.015	ND	ND	ND	0.0096

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Table 1
Summary of Soil Analytical Results, Building Interior

Madison Kipp Corporation
Madison, Wisconsin

Boring ID	B-156	B-157	B-158				B-159		B-160	
Sample Date	10/20/2012	10/19/2012	10/17/2012	12/30/2013	12/30/2013	1/3/2014	10/17/2012	10/18/2012	10/17/2012	1/3/2014
Sample Interval (feet bls)	1.8-3.8	1.8-3.8	4-6	8-9	10-12	15-17	2-4	4.8-6.8	0.9-2.9	12-14
VOCs										
1,3-Dichlorobenzene	<0.015	<0.015	<0.015	<0.023	<0.025	0.37	<0.016	<0.014	<0.015	<0.02
1,4-Dichlorobenzene	<0.01	<0.01	<0.01	<0.016	<0.017	0.2	<0.011	<0.0092	<0.01	<0.014
1,2,3-Trichlorobenzene	<0.021	<0.02	<0.02	<0.032	<0.034	0.47	<0.021	<0.018	<0.021	<0.028
1,2,4-Trichlorobenzene	<0.022	<0.022	0.051 J	0.083 J	<0.037	0.34	<0.023	<0.02	<0.022	<0.03
1,2,4-Trimethylbenzene	<0.012	<0.012	0.09 J	0.19	0.29	0.32	<0.013	<0.011	<0.012	<0.017
1,2-Dichlorobenzene	<0.012	<0.012	0.098 J	<0.019	<0.02	0.5	<0.013	<0.011	<0.012	<0.016
1,3,5-Trimethylbenzene	<0.012	<0.012	0.031 J	0.055 J	0.086 J	0.086 J	<0.013	<0.011	<0.012	<0.016
cis-1,2-Dichloroethene	<0.0072	<0.0072	<0.0071	<0.011	0.071 J	0.23	<0.0075	<0.0065	<0.0073	<0.0098
Ethylbenzene	<0.0074	<0.0073	<0.0073	<0.011	<0.012	<0.011	<0.0077	<0.0066	<0.0074	<0.01
Isopropylbenzene	<0.015	<0.015	0.16	0.28	0.26	0.41	<0.015	<0.013	<0.015	<0.02
Naphthalene	<0.029	<0.029	<0.029	<0.045	<0.048	0.11 J	<0.03	<0.026	<0.029	<0.039
n-Butylbenzene	<0.0076	<0.0075	<0.0075	<0.012	0.071 J	0.085	<0.0079	<0.0068	<0.0076	<0.01
N-Propylbenzene	<0.01	<0.01	<0.01	<0.016	<0.017	<0.015	<0.011	<0.0092	<0.01	<0.014
p-Isopropyltoluene	<0.011	<0.011	<0.011	<0.017	<0.018	<0.016	<0.011	<0.0097	<0.011	<0.015
sec-Butylbenzene	<0.0091	<0.009	<0.0089	<0.014	<0.015	<0.013	<0.0094	<0.0081	<0.0091	<0.012
tert-Butylbenzene	<0.008	<0.0079	<0.0079	<0.012	<0.013	<0.012	<0.0083	<0.0072	<0.008	<0.011
Tetrachloroethene	<0.0098	<0.0097	<0.0097	0.055 J	0.96	0.64	<0.01	<0.0088	<0.0098	<0.013
Toluene	<0.0068	<0.0067	<0.0067	<0.01	0.024	0.017 J	<0.0071	<0.0061	<0.0068	<0.0092
trans-1,2-Dichloroethene	<0.015	<0.015	<0.015	<0.023	<0.024	<0.021	<0.015	<0.013	<0.015	<0.02
Trichloroethene	<0.011	<0.011	<0.011	<0.017	<0.018	0.04 J	<0.011	<0.0098	<0.011	<0.015
Vinyl chloride	<0.0061	<0.0061	<0.006	<0.0094	<0.01	<0.0089	<0.0064	<0.0055	<0.0061	<0.0083
Xylenes, Total	<0.004	<0.004	<0.004	<0.0062	0.084	0.031 J	<0.0042	<0.0036	<0.004	<0.0054
PCBs										
Aroclor-1242	0.35	0.013 J	**1,900 B**	**340**	**170**	**1,100**	**4.2 B**	0.046	**200 B**	**1.8**
Aroclor-1248	<0.0075	<0.0074	<73	<13	<3.4	<33	<0.15	<0.0068	<7.7	<0.067
Aroclor-1254	<0.0041	<0.004	<40	<7.3	<1.9	<18	<0.084	<0.0037	<4.2	<0.036
Aroclor-1260	<0.0094	<0.0092	<91	<17	<4.2	<42	<0.19	<0.0084	<9.6	<0.083
Total Detected PCBs	0.35	0.013	***1,900***	***340***	***170***	***1,100***	***4.2***	0.046	***200***	***1.8***

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Table 1
Summary of Soil Analytical Results, Building Interior

Madison Kipp Corporation
Madison, Wisconsin

Boring ID	B-160 (continued)	B-161		B-162	B-163	B-164		B-165	B-166
Sample Date	1/3/2014	10/18/2012	10/18/2012	10/18/2012	10/18/2012	10/18/2012	10/18/2012	10/18/2012	10/18/2012
Sample Interval (feet bls)	17-19	2-4	13.2-15.2	1.3-3.3	5-7	2-4	4-6	0.6-2.6	1.3-3.3
VOCs									
1,3-Dichlorobenzene	<0.021	<0.015	<0.014	<0.016	<0.013	<0.016	<0.016 H	<0.016	<0.015
1,4-Dichlorobenzene	<0.014	<0.01	<0.0093	<0.011	<0.0091	<0.011	<0.011 H	<0.011	<0.01
1,2,3-Trichlorobenzene	<0.028	<0.021	<0.019	<0.021	<0.018	<0.021	<0.021 H	<0.021	<0.02
1,2,4-Trichlorobenzene	<0.03	<0.022	<0.02	<0.023	<0.02	<0.023	<0.023 H	<0.023	<0.022
1,2,4-Trimethylbenzene	<0.017	<0.012	<0.011	<0.013	<0.011	<0.013	<0.013 H	<0.013	<0.012
1,2-Dichlorobenzene	<0.017	<0.012	<0.011	<0.012	<0.011	<0.012	<0.012 H	<0.012	<0.012
1,3,5-Trimethylbenzene	<0.017	<0.012	<0.011	<0.013	<0.011	<0.013	<0.013 H	<0.013	<0.012
cis-1,2-Dichloroethene	<0.0099	<0.0073	<0.0066	<0.0075	<0.0065	<0.0075	<0.0075 H	<0.0075	<0.0071
Ethylbenzene	<0.01	<0.0075	<0.0068	<0.0076	<0.0066	<0.0077	<0.0077 H	<0.0077	<0.0072
Isopropylbenzene	<0.02	<0.015	<0.013	<0.015	<0.013	<0.015	<0.015 H	<0.015	<0.014
Naphthalene	<0.04	<0.029	<0.027	<0.03	<0.026	<0.03	<0.03 H *	0.043 J	<0.028
n-Butylbenzene	<0.01	<0.0076	<0.0069	<0.0078	<0.0068	<0.0078	<0.0078 H	<0.0079	<0.0074
N-Propylbenzene	<0.014	<0.01	<0.0094	<0.011	<0.0092	<0.011	<0.011 H	<0.011	<0.01
p-Isopropyltoluene	<0.015	<0.011	<0.0099	<0.011	<0.0097	<0.011	<0.011 H	<0.011	<0.011
sec-Butylbenzene	<0.012	<0.0091	<0.0083	<0.0093	<0.0081	<0.0094	<0.0094 H	<0.0094	<0.0088
tert-Butylbenzene	<0.011	<0.008	<0.0073	<0.0083	<0.0071	<0.0083	<0.0083 H	<0.0083	<0.0078
Tetrachloroethene	<0.013	<0.0099	<0.009	<0.01	0.032 J	0.098	0.34 H	0.036 J	0.19
Toluene	<0.0093	<0.0068	<0.0062	<0.007	<0.006	<0.007	<0.007 H	<0.007	<0.0066
trans-1,2-Dichloroethene	<0.02	<0.015	<0.013	<0.015	<0.013	<0.015	<0.015 H	<0.015	<0.014
Trichloroethene	<0.015	<0.011	<0.01	<0.011	<0.0098	<0.011	0.019 J H	<0.011	<0.011
Vinyl chloride	<0.0084	<0.0062	<0.0056	<0.0063	<0.0055	<0.0063	<0.0063 H	<0.0063	<0.006
Xylenes, Total	<0.0055	<0.004	<0.0037	<0.0042	<0.0036	<0.0042	<0.0042 H	<0.0042	<0.0039
PCBs									
Aroclor-1242	<0.0058	0.19	0.0092 J	0.013 J	<0.0057	<0.0066	0.062	0.025	**2.3 B**
Aroclor-1248	<0.007	<0.0078	<0.0069	<0.0077	<0.0068	<0.0079	<0.0078	<0.0079	<0.071
Aroclor-1254	<0.0038	<0.0043	<0.0038	<0.0042	<0.0037	<0.0043	<0.0043	<0.0043	<0.039
Aroclor-1260	<0.0087	<0.0097	<0.0085	<0.0096	<0.0085	<0.0098	<0.0097	<0.0098	<0.088
Total Detected PCBs	ND	0.19	0.0092	0.013	--	--	0.062	0.025	***2.3***

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Table 1
Summary of Soil Analytical Results, Building Interior

Madison Kipp Corporation
Madison, Wisconsin

Boring ID	B-166 (continued)	B-167	B-168	B-169		B-174	B-175		
Sample Date	10/18/2012	10/18/2012	10/20/2012	10/20/2012	10/20/2012	10/25/2012	12/30/2013	12/30/2013	12/30/2013
Sample Interval (feet bls)	9.1-11.1	0.8-2.8	4-6	0.9-2.9	6-8	0-2	2-4	14-16	18.5-20.5
VOCs									
1,3-Dichlorobenzene	<0.014	<0.016	<0.014	<0.013	<0.015	<0.024	<0.026	<0.022	<0.023
1,4-Dichlorobenzene	<0.0093	<0.011	<0.0096	<0.0091	<0.01	<0.016	<0.017	<0.015	<0.016
1,2,3-Trichlorobenzene	<0.019	<0.021	<0.019	<0.018	<0.02	<0.033	<0.035	<0.03	<0.031
1,2,4-Trichlorobenzene	<0.02	<0.023	<0.021	<0.02	<0.022	<0.035	<0.038	<0.033	<0.034
1,2,4-Trimethylbenzene	<0.011	<0.013	<0.012	<0.011	<0.012	<0.02	<0.021	<0.018	<0.019
1,2-Dichlorobenzene	<0.011	<0.012	<0.011	<0.011	<0.012	<0.019	<0.021	<0.018	<0.018
1,3,5-Trimethylbenzene	<0.011	<0.013	<0.011	<0.011	<0.012	<0.019	<0.021	<0.018	<0.018
cis-1,2-Dichloroethene	<0.0066	<0.0075	<0.0068	<0.0064	<0.0071	<0.011	<0.012	<0.011	<0.011
Ethylbenzene	<0.0067	<0.0076	<0.007	<0.0066	<0.0073	<0.012	<0.013	<0.011	<0.011
Isopropylbenzene	<0.013	<0.015	<0.014	<0.013	<0.015	<0.023	<0.025	<0.022	<0.022
Naphthalene	<0.026	<0.03	<0.027	<0.026	<0.029	<0.046	<0.05	<0.043	<0.044
n-Butylbenzene	<0.0069	<0.0078	<0.0072	<0.0068	<0.0075	<0.012	<0.013	<0.011	<0.012
N-Propylbenzene	<0.0094	<0.011	<0.0097	<0.0092	<0.01	<0.016	<0.018	<0.015	<0.016
p-Isopropyltoluene	<0.0099	<0.011	<0.01	<0.0097	<0.011	<0.017	<0.019	<0.016	<0.017
sec-Butylbenzene	<0.0082	<0.0093	<0.0085	<0.0081	<0.0089	<0.014	<0.015	<0.013	<0.014
tert-Butylbenzene	<0.0073	<0.0083	<0.0075	<0.0071	<0.0079	<0.013	<0.014	<0.012	<0.012
Tetrachloroethene	<0.0089	0.37	<0.0093	<0.0088	<0.0097	0.085 J	<0.017	<0.014	<0.015
Toluene	<0.0062	<0.007	<0.0064	<0.006	<0.0066	<0.011	<0.012	0.026	<0.01
trans-1,2-Dichloroethene	<0.013	<0.015	<0.014	<0.013	<0.014	<0.023	<0.025	<0.022	<0.022
Trichloroethene	<0.01	<0.011	<0.01	<0.0097	<0.011	<0.017	<0.019	<0.016	<0.017
Vinyl chloride	<0.0056	<0.0063	<0.0058	<0.0055	<0.006	<0.0097	<0.01	<0.009	<0.0093
Xylenes, Total	<0.0037	<0.0042	<0.0038	<0.0036	<0.004	<0.0064	<0.0069	<0.0059	<0.0061
PCBs									
Aroclor-1242	0.02	<0.0063	**0.99**	0.31	**1.3**	<0.29	0.051	<0.0056	0.011 J
Aroclor-1248	<0.0068	<0.0076	<0.035	<0.0065	<0.036	<0.35	<0.0081	<0.0068	<0.007
Aroclor-1254	<0.0038	0.036	<0.019	<0.0036	<0.02	<0.19	<0.0044	<0.0037	<0.0038
Aroclor-1260	<0.0085	<0.0095	<0.044	<0.0082	<0.045	<0.44	<0.01	<0.0084	<0.0087
Total Detected PCBs	0.02	0.036	0.99	0.31	***1.3***	ND	0.051	ND	0.011

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Table 1
Summary of Soil Analytical Results, Building Interior

Madison Kipp Corporation
Madison, Wisconsin

Boring ID	B-176			B-177	B-178			B-179		
Sample Date	12/30/2013	12/30/2013	12/30/2013	1/3/2014	1/2/2014	1/2/2014	1/2/2014	1/3/2014	1/3/2014	1/3/2014
Sample Interval (feet bls)	2-4	12-14	18.5-20.5	2-4	2-4	6-7.5	9-11	2-4	4-6	9-11
VOCs										
1,3-Dichlorobenzene	<0.029	<0.02	<0.023	<0.032	<0.026	<0.027	<0.023	<0.025	<0.029	<0.014
1,4-Dichlorobenzene	<0.02	<0.013	<0.015	<0.022	<0.018	<0.018	<0.016	<0.017	<0.02	<0.0093
1,2,3-Trichlorobenzene	<0.039	<0.027	<0.031	<0.044	<0.035	<0.037	<0.031	<0.034	<0.039	<0.019
1,2,4-Trichlorobenzene	<0.042	<0.029	<0.033	<0.047	<0.038	<0.04	<0.034	<0.037	<0.042	0.16
1,2,4-Trimethylbenzene	<0.024	<0.016	<0.019	<0.026	<0.021	<0.022	<0.019	0.14 J	0.32	0.33
1,2-Dichlorobenzene	<0.023	<0.016	<0.018	<0.025	<0.021	<0.022	<0.018	<0.02	<0.023	<0.011
1,3,5-Trimethylbenzene	<0.023	<0.016	<0.018	<0.026	<0.021	<0.022	<0.018	<0.02	0.086 J	0.084 J
cis-1,2-Dichloroethene	<0.014	<0.0095	<0.011	<0.015	<0.012	<0.013	<0.011	<0.012	<0.014	<0.0066
Ethylbenzene	<0.014	<0.0097	<0.011	<0.016	<0.013	<0.013	<0.011	<0.012	<0.014	<0.0067
Isopropylbenzene	<0.028	<0.019	<0.022	<0.031	<0.025	<0.026	<0.022	0.12 J	0.44	0.21
Naphthalene	<0.055	<0.038	<0.044	<0.061	<0.05	<0.052	<0.044	<0.048	<0.055	0.1 J
n-Butylbenzene	<0.014	<0.0099	<0.011	<0.016	<0.013	<0.014	<0.012	<0.012	0.089 J	0.098
N-Propylbenzene	<0.02	<0.013	<0.015	<0.022	<0.018	<0.018	<0.016	<0.017	<0.02	0.048 J
p-Isopropyltoluene	<0.021	<0.014	<0.016	<0.023	<0.019	<0.019	<0.017	<0.018	<0.021	0.045 J
sec-Butylbenzene	<0.017	<0.012	<0.014	<0.019	<0.016	<0.016	<0.014	<0.015	<0.017	<0.0082
tert-Butylbenzene	<0.015	<0.01	<0.012	<0.017	<0.014	<0.014	<0.012	<0.013	<0.015	<0.0073
Tetrachloroethene	<0.019	<0.013	<0.015	<0.021	0.078 J	<0.018	<0.015	<0.016	<0.019	0.46
Toluene	0.083	<0.0089	<0.01	<0.014	<0.012	<0.012	<0.01	<0.011	<0.013	<0.0061
trans-1,2-Dichloroethene	<0.028	<0.019	<0.022	<0.031	<0.025	<0.026	<0.022	<0.024	<0.028	<0.013
Trichloroethene	<0.021	<0.014	<0.016	<0.023	<0.019	<0.02	<0.017	<0.018	<0.021	<0.0099
Vinyl chloride	<0.012	<0.008	<0.0092	<0.013	<0.01	<0.011	<0.0093	<0.01	<0.012	<0.0056
Xylenes, Total	<0.0077	<0.0053	<0.006	<0.0085	<0.0069	<0.0072	<0.0061	<0.0066	<0.0077	0.06
PCBs										
Aroclor-1242	0.017 J	0.011 J	0.011 J	0.019 J	0.016 J	<0.0064	<0.0055	**60**	**2,300**	**3,400**
Aroclor-1248	<0.0078	<0.0066	<0.0067	<0.0078	<0.0077	<0.0076	<0.0066	<1.5	<74	<130
Aroclor-1254	<0.0042	<0.0036	<0.0037	<0.0043	<0.0042	<0.0042	<0.0036	<0.83	<41	<70
Aroclor-1260	<0.0097	<0.0082	<0.0084	<0.0097	<0.0095	<0.0095	<0.0082	<1.9	<92	<160
Total Detected PCBs	0.017	0.011	0.011	0.019	0.016	ND	ND	***60***	***2,300***	***3,400***

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Table 1
Summary of Soil Analytical Results, Building Interior

Madison Kipp Corporation
Madison, Wisconsin

Boring ID	B-179 (continued)	B-180			B-181				B-182	
Sample Date	1/4/2014	1/2/2014	1/2/2014	1/2/2014	1/2/2014	1/2/2014	1/2/2014	1/3/2014	1/2/2014	1/2/2014
Sample Interval (feet bls)	21.1-23.1	0-2	4-6	14.6-16.6	1.5-3.5	4-6	8.4-10.4	18.1-20.1	1.2-3.2	5.1-7.1
VOCs										
1,3-Dichlorobenzene	<0.023	<0.031	0.12 J	<0.028	<0.034	<0.028	<0.021	<0.021	<0.025	<0.025
1,4-Dichlorobenzene	<0.015	<0.021	<0.017	<0.019	<0.023	<0.019	<0.014	<0.014	<0.017	<0.017
1,2,3-Trichlorobenzene	<0.031	<0.042	<0.035	<0.037	<0.046	<0.039	<0.028	<0.029	<0.034	<0.034
1,2,4-Trichlorobenzene	<0.033	<0.046	0.51	0.26	<0.049	0.1 J	0.072 J	<0.031	0.078 J	0.079 J
1,2,4-Trimethylbenzene	<0.019	0.17 J	1.6	0.72	0.58	1	0.3	0.093 J	0.21	0.17 J
1,2-Dichlorobenzene	<0.018	<0.025	<0.02	<0.022	<0.027	<0.023	<0.017	<0.017	<0.02	<0.02
1,3,5-Trimethylbenzene	<0.018	0.069 J	0.44	0.18 J	0.59	0.96	0.09 J	<0.017	0.066 J	0.053 J
cis-1,2-Dichloroethene	<0.011	<0.015	<0.012	<0.013	<0.016	0.059 J	0.076 J	0.22	<0.012	<0.012
Ethylbenzene	<0.011	<0.015	0.048	<0.013	<0.016	<0.014	<0.01	<0.01	<0.012	<0.012
Isopropylbenzene	<0.022	0.096 J	0.78	<0.027	0.097 J	0.12 J	<0.02	<0.021	0.11 J	0.1 J
Naphthalene	<0.043	<0.06	0.28	0.14 J	<0.065	<0.054	0.059 J	<0.041	<0.048	<0.048
n-Butylbenzene	<0.011	<0.016	0.43	0.27	0.083 J	0.18	0.076 J	<0.011	<0.013	<0.013
N-Propylbenzene	<0.015	<0.021	0.2	0.085 J	0.069 J	0.096 J	<0.014	<0.014	<0.017	<0.017
p-Isopropyltoluene	<0.016	<0.022	0.22	0.11 J	<0.024	0.078 J	<0.015	<0.015	<0.018	<0.018
sec-Butylbenzene	<0.014	<0.019	0.17	0.093 J	0.066 J	0.11	<0.012	<0.013	<0.015	<0.015
tert-Butylbenzene	<0.012	<0.016	<0.014	<0.015	<0.018	<0.015	<0.011	<0.011	<0.013	<0.013
Tetrachloroethene	<0.015	<0.02	<0.017	1.1	0.24	0.66	1.1	3.1	0.056 J	<0.016
Toluene	<0.01	<0.014	0.047	<0.012	<0.015	0.027 J	0.06	<0.0095	<0.011	<0.011
trans-1,2-Dichloroethene	<0.022	<0.03	<0.025	<0.027	<0.033	<0.028	<0.02	<0.021	<0.024	<0.024
Trichloroethene	<0.016	<0.022	<0.019	<0.02	<0.024	<0.02	<0.015	0.039 J	<0.018	<0.018
Vinyl chloride	<0.0092	<0.013	<0.01	<0.011	<0.014	<0.011	<0.0084	0.027	<0.01	<0.01
Xylenes, Total	<0.006	<0.0082	0.29	0.085	0.13	0.15	0.053	<0.0057	0.052	<0.0066
PCBs										
Aroclor-1242	0.11	**45**	**800**	**1,200**	**160**	**1,600**	**9**	**82**	**1**	**280**
Aroclor-1248	<0.007	<1.6	<37	<36	<7.9	<75	<0.67	<3.2	<0.16	<7.1
Aroclor-1254	<0.0038	<0.87	<20	<20	<4.3	<41	<0.37	<1.8	<0.086	<3.9
Aroclor-1260	<0.0087	<2*	<46*	<45*	<9.8	<94	<0.84	<4	<0.2	<8.9*
Total Detected PCBs	0.11	***45***	***800***	***1,200***	***160***	***1,600***	***9***	***82***	***1***	***280***

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Table 1
Summary of Soil Analytical Results, Building Interior

Madison Kipp Corporation
Madison, Wisconsin

Boring ID	B-182 (continued)	B-183			B-184			B-185	B-186	B-187
Sample Date	1/2/2014	1/3/2014	1/3/2014	1/3/2014	1/3/2014	1/3/2014	1/3/2014	1/3/2014	1/3/2014	1/3/2014
Sample Interval (feet bls)	13.5-15.5	1.7-3.7	8-10	17.3-19.3	2-4	14-16	18.5-20.5	1.5-3.5	2-4	1.3-3.3
VOCs										
1,3-Dichlorobenzene	<0.024	<0.029	<0.026	<0.023	<0.027	<0.024	<0.023	<0.025	<0.031	<0.027
1,4-Dichlorobenzene	<0.016	<0.019	<0.017	<0.015	<0.018	<0.016	<0.015	<0.017	<0.021	<0.018
1,2,3-Trichlorobenzene	<0.033	<0.039	<0.035	<0.031	<0.037	<0.033	<0.031	<0.033	<0.042	<0.037
1,2,4-Trichlorobenzene	0.13 J	<0.042	<0.038	<0.033	<0.04	<0.035	<0.033	<0.036	<0.045	<0.04
1,2,4-Trimethylbenzene	0.23	<0.023	<0.021	<0.019	<0.022	<0.02	<0.019	<0.02	<0.025	<0.022
1,2-Dichlorobenzene	<0.019	<0.023	<0.02	<0.018	<0.022	<0.019	<0.018	<0.02	<0.024	<0.022
1,3,5-Trimethylbenzene	0.061 J	<0.023	<0.021	<0.018	<0.022	<0.019	<0.018	<0.02	<0.024	<0.022
cis-1,2-Dichloroethene	0.39	<0.014	<0.012	<0.011	<0.013	<0.012	<0.011	<0.012	<0.015	<0.013
Ethylbenzene	<0.012	<0.014	<0.013	<0.011	<0.013	<0.012	<0.011	<0.012	<0.015	<0.013
Isopropylbenzene	0.064 J	<0.028	<0.025	<0.022	<0.027	<0.024	<0.022	<0.024	<0.03	<0.027
Naphthalene	0.077 J	<0.055	<0.049	<0.043	<0.052	<0.046	<0.044	<0.047	<0.059	<0.052
n-Butylbenzene	0.076 J	<0.014	<0.013	<0.011	<0.014	<0.012	<0.011	<0.012	<0.015	<0.014
N-Propylbenzene	<0.016	<0.019	<0.017	<0.015	<0.019	<0.016	<0.015	<0.017	<0.021	<0.018
p-Isopropyltoluene	<0.017	<0.021	<0.018	<0.016	<0.02	<0.017	<0.016	<0.018	<0.022	<0.02
sec-Butylbenzene	<0.014	<0.017	<0.015	<0.014	<0.016	<0.014	<0.014	<0.015	<0.018	<0.016
tert-Butylbenzene	<0.013	<0.015	<0.014	<0.012	<0.014	<0.013	<0.012	<0.013	<0.016	<0.014
Tetrachloroethene	1.9	<0.019	<0.017	<0.015	<0.018	<0.016	<0.015	<0.016	<0.02	<0.018
Toluene	0.064	<0.013	<0.011	<0.01	<0.012	<0.011	<0.01	<0.011	<0.014	<0.012
trans-1,2-Dichloroethene	<0.024	<0.028	<0.025	<0.022	<0.026	<0.023	<0.022	<0.024	<0.03	<0.026
Trichloroethene	0.18	<0.021	<0.019	<0.016	<0.02	<0.017	<0.016	<0.018	<0.022	<0.02
Vinyl chloride	<0.0098	<0.012	<0.01	<0.0091	<0.011	<0.0098	<0.0092	<0.0099	<0.012	<0.011
Xylenes, Total	<0.0064	<0.0076	<0.0068	<0.006	<0.0072	<0.0064	<0.006	<0.0065	<0.0081	<0.0072
PCBs										
Aroclor-1242	**2,300**	0.048	0.014 J	0.025	0.021	0.0057 J	0.024	0.053	0.57	0.012 J
Aroclor-1248	<67	<0.0076	<0.0065	<0.0068	<0.0076	<0.0068	<0.0069	<0.0075	<0.016	<0.0071
Aroclor-1254	<37	<0.0041	<0.0036	<0.0037	<0.0042	<0.0037	<0.0038	<0.0041	<0.0085	<0.0039
Aroclor-1260	<83*	<0.0094	<0.0082	<0.0084	<0.0.095	<0.0084	<0.0086	<0.0093	<0.019	<0.0088
Total Detected PCBs	***2,300***	0.048	0.014	0.025	0.021	0.0057	0.024	0.053	0.57	0.012

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Table 1
Summary of Soil Analytical Results, Building Interior

Madison Kipp Corporation
Madison, Wisconsin

Boring ID	B-187 (continued)		B-188			B-191			B-193		
Sample Date	1/3/2014	1/3/2014	1/2/2014	1/2/2014	1/2/2014	1/4/2014	1/4/2014	1/4/2014	2/27/2014	2/27/2014	2/27/2014
Sample Interval (feet bls)	8-10	12-14	2-4	9-11	13-15	2-4	13.7-15.7	17.3-19.3	0-2	12-14	18-20
VOCs											
1,3-Dichlorobenzene	<0.023	<0.023	<0.028	<0.022	<0.025	<0.026	<0.021	<0.023	<0.028	<0.024	<0.022
1,4-Dichlorobenzene	<0.016	<0.016	<0.019	<0.015	<0.017	<0.018	<0.015	<0.016	<0.019	<0.016	<0.015
1,2,3-Trichlorobenzene	<0.032	<0.032	<0.039	<0.03	<0.034	<0.036	<0.029	<0.032	<0.039 *	<0.032 *	<0.03 *
1,2,4-Trichlorobenzene	<0.035	<0.034	<0.042	<0.033	<0.037	<0.038	<0.032	<0.034	<0.042 *	<0.035 *	<0.032 *
1,2,4-Trimethylbenzene	<0.019	<0.019	<0.023	<0.018	<0.02	<0.021	<0.018	<0.019	<0.023	<0.019	<0.018
1,2-Dichlorobenzene	<0.019	<0.019	<0.023	<0.018	<0.02	<0.021	<0.017	<0.019	<0.023	<0.019	<0.018
1,3,5-Trimethylbenzene	<0.019	<0.019	<0.023	<0.018	<0.02	<0.021	<0.017	<0.019	<0.023	<0.019	<0.018
cis-1,2-Dichloroethene	<0.011	<0.011	<0.014	<0.011	<0.012	<0.012	<0.01	<0.011	<0.014	<0.011	<0.011
Ethylbenzene	<0.012	<0.011	<0.014	<0.011	<0.012	<0.013	<0.011	<0.011	<0.014	<0.012	<0.011
Isopropylbenzene	<0.023	<0.023	<0.028	<0.022	<0.024	<0.025	<0.021	<0.023	<0.028	<0.023	<0.022
Naphthalene	<0.045	<0.045	<0.055	<0.043	<0.048	<0.05	<0.041	<0.045	<0.054 *	<0.045 *	<0.042 *
n-Butylbenzene	<0.012	<0.012	<0.014	<0.011	<0.012	<0.013	<0.011	<0.012	<0.014	<0.012	<0.011
N-Propylbenzene	<0.016	<0.016	<0.019	<0.015	<0.017	<0.018	<0.015	<0.016	<0.019	<0.016	<0.015
p-Isopropyltoluene	<0.017	<0.017	<0.02	<0.016	<0.018	<0.019	<0.015	<0.017	<0.02	<0.017	<0.016
sec-Butylbenzene	<0.014	<0.014	<0.017	<0.013	<0.015	<0.016	<0.013	<0.014	<0.017	<0.014	<0.013
tert-Butylbenzene	<0.012	<0.012	<0.015	<0.012	<0.013	<0.014	<0.011	<0.012	<0.015	<0.012	<0.012
Tetrachloroethene	<0.015	<0.015	0.15	<0.015	<0.016	<0.017	<0.014	<0.015	0.15	0.071 J	<0.014
Toluene	<0.01	<0.01	<0.013	<0.01	<0.011	<0.012	0.055	<0.01	<0.013	<0.011	<0.0099
trans-1,2-Dichloroethene	<0.023	<0.023	<0.028	<0.022	<0.024	<0.025	<0.021	<0.023	<0.028	<0.023	<0.021
Trichloroethene	<0.017	<0.017	<0.021	<0.016	<0.018	<0.019	<0.016	<0.017	<0.02	<0.017	<0.016
Vinyl chloride	<0.0095	<0.0094	<0.012	<0.0091	<0.01	<0.011	<0.0087	<0.0094	<0.011 *	<0.0095 *	<0.0089 *
Xylenes, Total	<0.0062	<0.0062	<0.0076	<0.006	<0.0066	<0.0069	<0.0057	<0.0062	<0.0075	<0.0063	<0.0059
PCBs											
Aroclor-1242	0.012 J	0.15	**1.4**	<0.0057	<0.0058	**6.1**	0.0093 J	0.0075 J	0.017 J	<0.029	<0.0058
Aroclor-1248	<0.0067	<0.0068	<0.07	<0.0069	<0.0069	<0.36	<0.0067	<0.0069	<0.0077	**0.75**	<0.0069
Aroclor-1254	<0.0037	<0.0037	<0.038	<0.0038	<0.0038	<0.2	<0.0037	<0.0038	<0.0042	<0.019	<0.0038
Aroclor-1260	<0.0084	<0.0085	<0.087	<0.0086	<0.0086	<0.45	<0.0084	<0.0086	<0.0097	<0.044	<0.0087
Total Detected PCBs	0.012	0.15	***1.4***	ND	ND	***6.1***	0.0093	0.0075	0.017	0.75	ND

Notes on Page 13.

Table 1
Summary of Soil Analytical Results, Building Interior

Madison Kipp Corporation
Madison, Wisconsin

Boring ID	B-194			B-195			MW-22S		MW-23S	
Sample Date	2/27/2014	2/27/2014	2/27/2014	2/27/2014	2/27/2014	2/27/2014	1/4/2013	1/4/2013	1/3/2013	1/3/2013
Sample Interval (feet bls)	2-4	8-10	20-21	0-2	10-12	18-20	27-29	34-36**	27-29	34-36**
VOCs										
1,3-Dichlorobenzene	<0.028	<0.023	<0.02	<0.026	<0.024	<0.021	<0.02	<0.021	<0.023	<0.018
1,4-Dichlorobenzene	<0.019	<0.016	<0.013	<0.018	<0.016	<0.014	<0.014	<0.014	<0.015	<0.012
1,2,3-Trichlorobenzene	<0.038 *	<0.032 *	<0.027 *	<0.035 *	<0.033 *	<0.028 *	<0.028	<0.029	<0.031	<0.024
1,2,4-Trichlorobenzene	<0.041 *	<0.034 *	<0.029 *	<0.038 *	<0.036 *	<0.031 *	<0.03	<0.031	<0.033	<0.026
1,2,4-Trimethylbenzene	<0.023	<0.019	<0.016	<0.021	<0.02	<0.017	<0.017	<0.017	<0.019	<0.014
1,2-Dichlorobenzene	<0.022	<0.019	<0.016	<0.021	<0.019	<0.017	<0.016	<0.017	<0.018	<0.014
1,3,5-Trimethylbenzene	<0.022	<0.019	<0.016	<0.021	<0.019	<0.017	<0.016	<0.017	<0.018	<0.014
cis-1,2-Dichloroethene	<0.013	<0.011	<0.0094	<0.012	<0.012	<0.01	<0.0098	<0.01	<0.011	<0.0084
Ethylbenzene	<0.014	<0.011	<0.0096	<0.013	<0.012	<0.01	<0.01	<0.01	<0.011	<0.0086
Isopropylbenzene	<0.027	<0.023	<0.019	<0.025	<0.024	<0.02	<0.02	<0.02	<0.022	<0.017
Naphthalene	<0.054 *	<0.045 *	<0.038 *	<0.05 *	<0.047 *	<0.04 *	<0.039	<0.04	<0.043	<0.034
n-Butylbenzene	<0.014	<0.012	<0.0099	<0.013	<0.012	<0.01	<0.01	<0.011	<0.011	<0.0088
N-Propylbenzene	<0.019	<0.016	<0.013	<0.018	<0.017	<0.014	<0.014	<0.014	<0.015	<0.012
p-Isopropyltoluene	<0.02	<0.017	<0.014	<0.019	<0.017	<0.015	<0.015	<0.015	<0.016	<0.013
sec-Butylbenzene	<0.017	<0.014	<0.012	<0.016	<0.015	<0.013	<0.012	<0.013	<0.014	<0.011
tert-Butylbenzene	<0.015	<0.012	<0.01	<0.014	<0.013	<0.011	<0.011	<0.011	<0.012	<0.0093
Tetrachloroethene	0.055 J	<0.015	<0.013	0.11	<0.016	<0.014	<0.013	<0.014	<0.015	0.12
Toluene	0.03	<0.01	<0.0088	<0.012	<0.011	<0.0093	<0.0092	<0.0094	<0.01	<0.0079
trans-1,2-Dichloroethene	<0.027	<0.023	<0.019	<0.025	<0.024	<0.02	<0.02	<0.02	<0.022	<0.017
Trichloroethene	<0.02	<0.017	<0.014	<0.019	<0.018	<0.015	<0.015	<0.015	<0.016	<0.013
Vinyl chloride	<0.011 *	<0.0094 *	<0.0080 *	<0.011 *	<0.0098 *	<0.0084 *	<0.0083	<0.0085	<0.0092	<0.0071
Xylenes, Total	<0.0075	<0.0062	<0.0052	<0.0069	<0.0065	<0.0056	<0.0054	<0.0056	<0.006	<0.0047
PCBs										
Aroclor-1242	<0.0066	0.18	<0.0057	<0.0066	<0.0055	<0.0058	0.028	0.72	<0.0055	<0.0058
Aroclor-1248	<0.0079	<0.0067	<0.0068	0.045	<0.0066	<0.0070	<0.0068	<0.014	<0.0066	<0.007
Aroclor-1254	<0.0043	<0.0037	<0.0037	<0.0043	<0.0036	<0.0038	<0.0037	<0.0078	<0.0036	<0.0038
Aroclor-1260	<0.0098	<0.0084	<0.0085	<0.0098	<0.0082	<0.0087	<0.0085	<0.018	<0.0082	<0.0087
Total Detected PCBs	ND	0.18	ND	0.045	ND	ND	0.028	0.72	ND	ND

Notes on Page 13.

Table 1
Summary of Soil Analytical Results, Building Interior

Madison Kipp Corporation
Madison, Wisconsin

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

Acronyms and Abbreviations:

100 100 = Exceeds the WDNR's industrial direct contact RCL.
100 = Exceeds the Toxic Substance Control Act disposal limit.
100 = Exceeds the USEPA's self-implementing high-occupancy cleanup level with no site restrictions.

** = Samples collected below water table
* = Laboratory control spike or laboratory control spike duplicate exceeds the control limits.
< = Constituent not detected above noted laboratory detection limit.
B = Compound was found in the blank and sample.
bls = Below land surface.
EPA = United States Environmental Protection Agency.
H = Sample was prepped or analyzed beyond the specified holding time.
J = Constituent concentration is an approximate value.
ND = Detected total PCBs were reported less than the laboratory detection limit.
NE = Criteria not established.
PCBs = Polychlorinated Biphenyls
RCL = Residual contaminant level.
TSCA = Toxic Substance Control Act.
VOCs = Volatile Organic Compounds.

Table 2
Hydraulic and PCB Fate and Transport Parameters

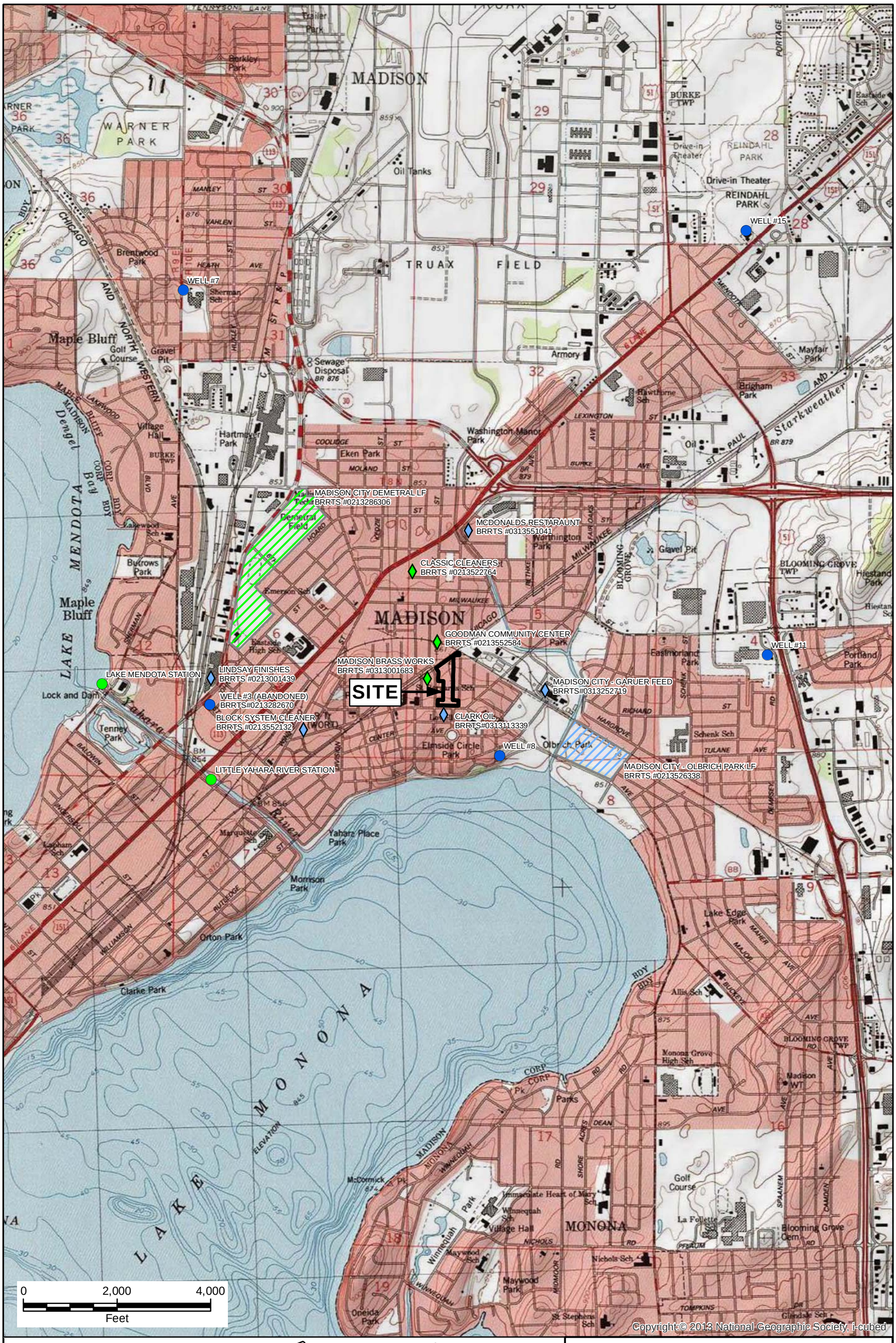
Madison Kipp Corporation
Madison, Wisconsin

Parameter	Value
Bulk Density (kg/L)[1]	2
Total Porosity (%)[2]	40
Effective Porosity (%)[1]	14.5
Foc (--)[3]	0.002
Koc (L/kg)[4]	33,900
Recharge (in/yr)[5]	5
Hydraulic Conductivity (ft/d)[6]	0.5
Hydraulic Gradient (ft/ft)[6]	0.0014

Acronyms and Abbreviations:
ft/d = Feet per day
ft/ft = Feet per foot
in/yr = Inch per year
kg/L = Killograms per liter
L/kg = Liters per kilogram

Footnotes:
[1] Payne et al 2008
[2] Freeze and Cherry 1979
[3] Indiana Department of Environmental Management (IDEM) Risk Integrated System of Closuure (RISC). 2001.
[4] Montgomery, J.H., 1996, Groundwater chemicals desk reference.
[5] Krohelski et al, Numerical Simulation of Groundwater Flow in Dane County, Wisconsin. Wisconsin Geological and Natural History Survey. Bulletin 98. 2000.
[6] Calculated from site data.

Figures



LEGEND

- OPEN SITE (ONGOING CLEANUP)
- OPEN SITE - SITE BOUNDARIES
- CLOSED SITE (COMPLETED CLEANUP)
- CLOSED SITE - SITE BOUNDARIES
- GAUGING STATION
- MUNICIPAL WATER SUPPLY WELL
- PROJECT BOUNDARY

NOTE:
TOPO BASE MAP OBTAINED FROM ESRI ONLINE MAPPING, USING ARCMAP 10, ACCESSED 10/15/2014
USGS 15' QUADRANGLE, MADISON EAST, WISCONSIN, 1983.

MADISON-KIPP CORPORATION
201 WAUBESA STREET
MADISON, WISCONSIN

SITE LOCATION MAP

ARCADIS

FIGURE 1

CITY: MKE DIV/GROUP: IM DB: GM LD: CK MADISON-KIPP
Z:\GIS\PROJECTS_ENV\MadisonKipp\ArcMap\2014-10\Fig1_Site_Location_Map.mxd 10/15/2014 4:18:26 PM

Waubesa St

Bike Path

Marquette St

Fairview St

Waubesa St

Marquette St

HISTORIC HEAT TREATMENT QUENCH AREA

HISTORIC OIL STORAGE

HISTORIC COOLING WATER PIT

HISTORIC WASH TANKS

HISTORIC WASH TANKS

HISTORIC PROCESS PIPING TRENCH FOR DIE CASTINGS OPERATION

HISTORIC DIE LUBE AREA

PCB TRANSFORMERS

CHEMICAL STORAGE AREA

PRESSURE WASH SPRAY BOOTH

B-138 B-137 B-174 B-193 B-194 B-145 B-140 B-195 B-139 B-146 B-141 B-142 B-147 B-144 B-143 B-169 B-168 B-179 B-148 B-183 B-178 B-180 B-184 B-177 B-149 B-167 B-181 MW-22S MW-22D B-176 B-150 B-185 B-166 B-182 B-165 B-175 B-151 B-158 B-191 B-162 B-159 B-164 MW-23D B-160 MW-23S B-186 B-163 B-152 B-188 B-161 B-187 B-155 B-156 B-153 B-157 B-154

A A'

Atwood Ave

CITY: MKE DIV/GROUP: IM DB: GM LD: CK MADISON-KIPP
Z:\GISPROJECTS_ENV\MadisonKipp\ArcMap\2014-10Fig1_SBandMWLocations_20141015.mxd 10/15/2014 4:04:16 PM

LEGEND

- SOIL BORING
- MONITORING WELL
- A A' CROSS SECTION
- PARCELS
- BUILDING FOOTPRINTS
- BUILDING FEATURE

0 80 160
Feet

MADISON-KIPP CORPORATION
201 WAUBESA STREET
MADISON, WISCONSIN

SOIL BORING AND WELL LOCATIONS BENEATH BUILDING

ARCADIS

FIGURE
2

Waubesa St

Bike Path

Marquette St

Fairview St

Waubesa St

Marquette St

Atwood Ave

B-138 B-137

HISTORIC HEAT TREATMENT QUENCH AREA

HISTORIC OIL STORAGE

B-174

B-193 B-194

B-145

HISTORIC COOLING WATER PIT

B-140

HISTORIC WASH TANKS

B-195

B-139

B-146

B-141

B-142

HISTORIC WASH TANKS

B-169

HISTORIC WASH TANKS

B-147

B-168

B-179

B-144

B-143

HISTORIC PROCESS PIPING TRENCH FOR DIE CASTINGS OPERATION

B-148

B-183

B-178

B-180

B-184

B-149

B-177

B-167

B-181

MW-22S

MW-22D

B-176

B-150

B-185

B-166

B-182

B-165

B-175

B-151

B-158

B-191

HISTORIC DIE LUBE AREA

B-162

B-159

MW-23D

B-164

B-160

MW-23S

B-186

B-163

B-152

B-188

B-161

B-187

PCB TRANSFORMERS

CHEMICAL STORAGE AREA

B-155

B-156

B-153

B-157

PRESSURE WASH SPRAY BOOTH

B-154

LEGEND

TOTAL POLYCHLORINATED BIPHENYL ISOCONCENTRATION CONTOUR MILLIGRAMS PER KILOGRAM (MG/KG)

- 50
- 500
- 5,000
- 10,000

- SOIL BORING
- MONITORING WELL
- PARCELS
- BUILDING FOOTPRINTS
- BUILDING FEATURE

0 40 80

Feet

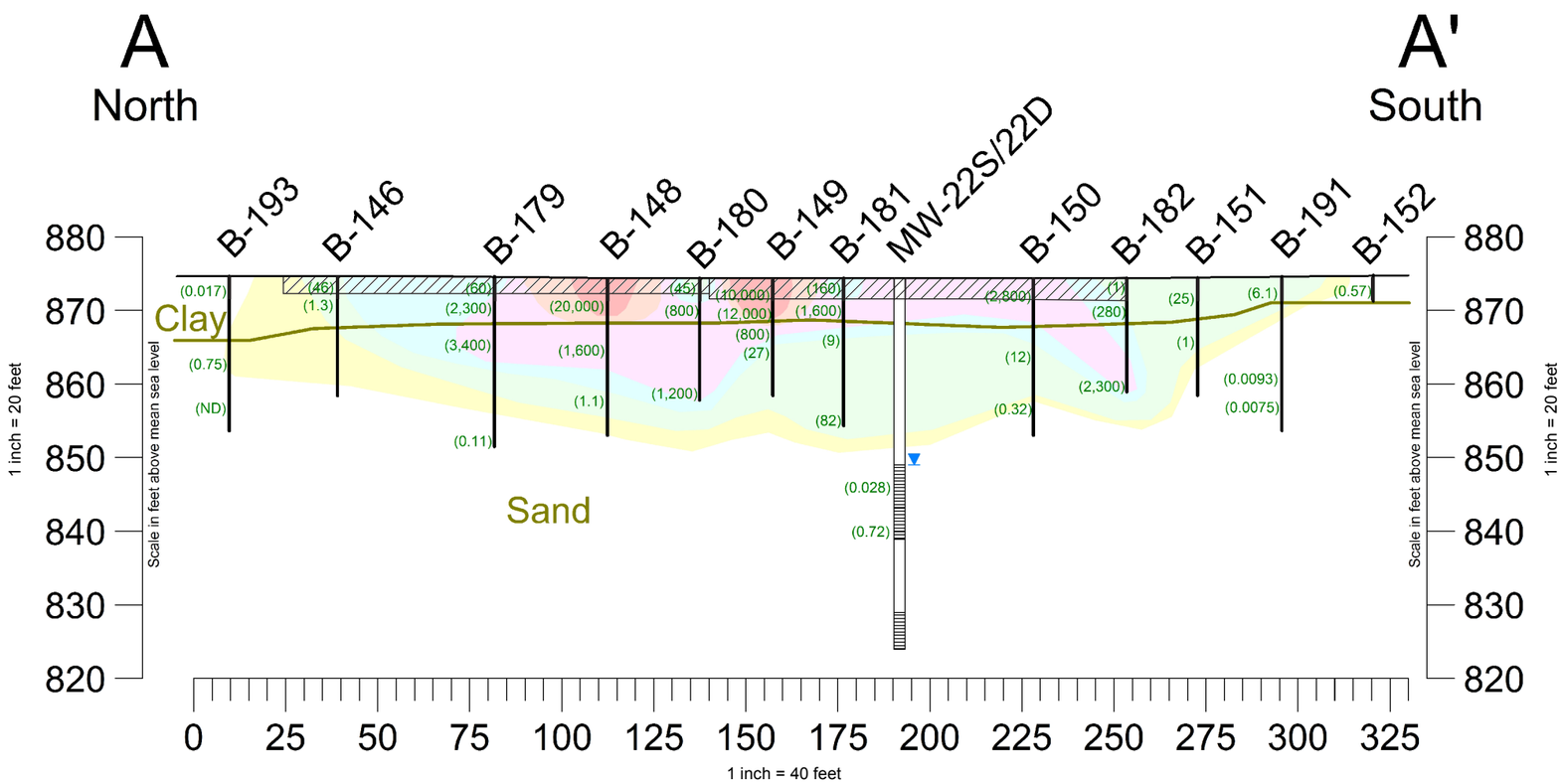
MADISON-KIPP CORPORATION
201 WAUBESA STREET
MADISON, WISCONSIN

TOTAL PCB ISOCONCENTRATION BENEATH BUILDING MAP

ARCADIS

FIGURE 3

CITY: MKE DIV/GROUP: IM DB: GM LD: CK MADISON-KIPP
Z:\GISPROJECTS_ENV\MadisonKipp\ArcMap\2014-10\Fig3_PCB_Iso_Map_20141015.mxd 10/15/2014 4:44:42 PM



Total Polychlorinated Biphenyl Isoconcentration Contour (mg/kg)

- >0.744 to 1
- 1 to 49
- 50 to 499
- 500 to 4,999
- 5000 to 9,999
- 10,000 to 20,000

LEGEND

- Well Screen
- Water Table Elevation for MW-22S in October 2013
- (27) Total Polychlorinated Biphenyl Concentration in mg/kg
- Geologic Contact

NOTE:

Vertical exaggeration = 2x

- Concrete and soil removal along the center aisle within the building (June/July 2014). Area replaced with clean, imported backfill and finished with new concrete.

mg/kg milligram per kilogram

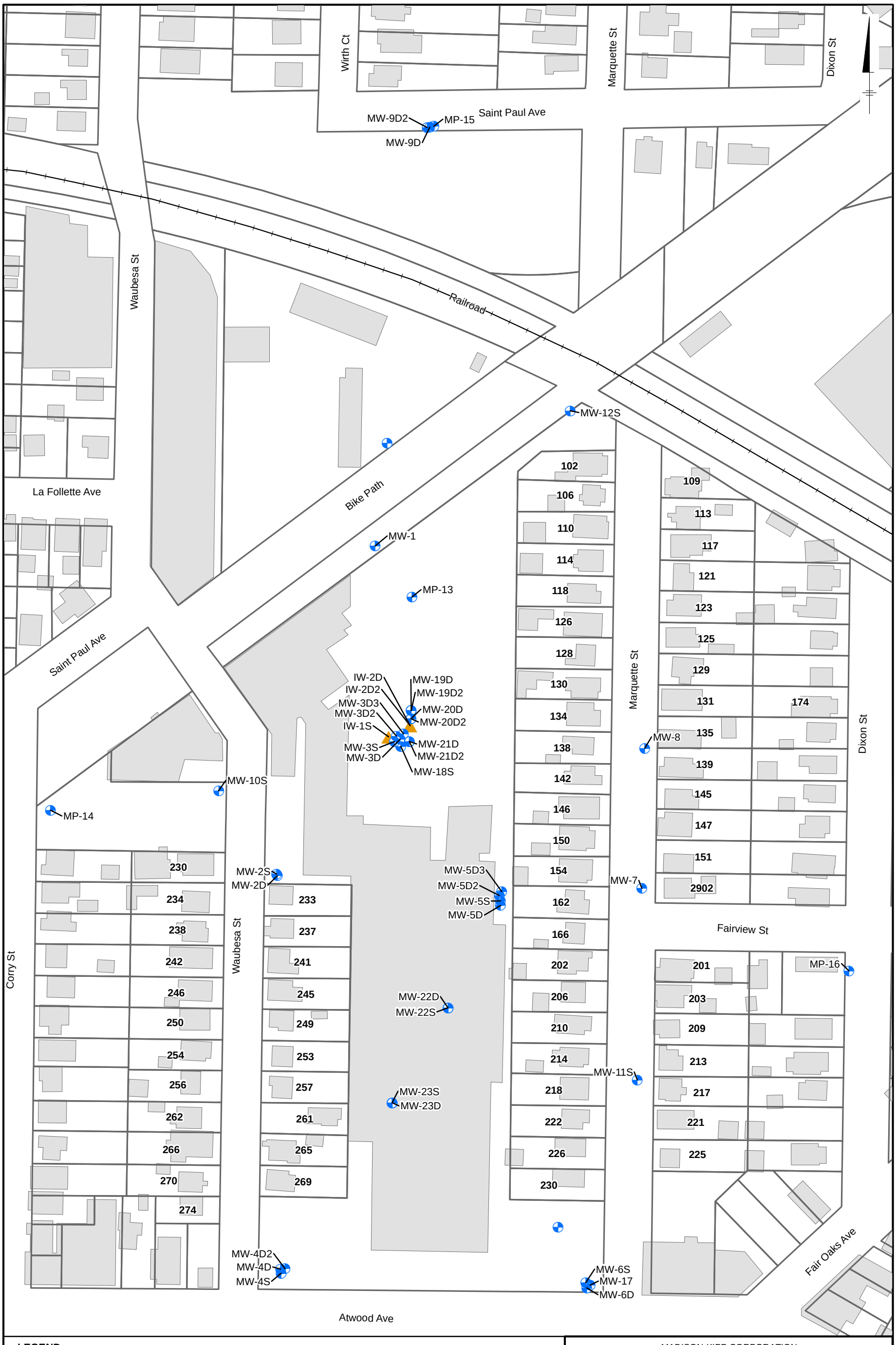
MADISON-KIPP CORPORATION
201 WAUBESA STREET
MADISON, WISCONSIN

INTERIOR BUILDING TRENCH CROSS SECTION

ARCADIS

FIGURE 4

15OCT14\ENVIRONMENTTS\LMB
MADISONKPP\WI001368\GRAPHICS\CROSS SECTION TOTAL PCBS INTERIOR BUILD TRENCH.PDF



LEGEND

- MONITORING WELL
- INJECTION WELL
- PARCELS
- BUILDING FOOTPRINTS

0 120 240
Feet

MADISON-KIPP CORPORATION
201 WAUBESA STREET
MADISON, WISCONSIN

WELL LOCATIONS

ARCADIS

FIGURE
5

CITY: MKE DIV/GROUP: IM DB: GM LD: CK MADISON-KIPP
Z:\GISPROJECTS_ENV\MadisonKipp\ArcMap\2014-10\Fig5_WellMap.mxd 10/15/2014 4:02:57 PM

ARCADIS

Attachment A

Submittal Certification

ARCADIS

Submittal Certification

This attachment was prepared to satisfy the requirements of Wisconsin Administrative Code Chapter NR 712.09 and is applicable to the following document.

Technical Justification – Polychlorinated Biphenyl-Impacted Soils
Beneath the Main Manufacturing Building
Madison-Kipp Corporation
201 Waubesa Street
Madison, Wisconsin

I, Jennine Trask, 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.

WISCONSIN
JENNINE L. TRASK #34959 WEST ALLIS, WI.
PROFESSIONAL ENGINEER

J Trask CPM #34959
Signature, title and P.E. number

I, Christopher Kubacki, 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 of the 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.

Senior Engineer
Signature and title

10/22/14
Date

ARCADIS

Attachment B

Madison-Kipp Maintenance Activities

MKC
Madison-Kipp Corporation
Post Office Box 8043
Madison, WI 53708-8043
201 Waubesa Street
Madison, WI 53704-5728
Telephone 608-244-3511
Facsimile 608-244-4674

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

Subject:
Interior Manufacturing Modifications, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin. Facility ID No. 113125320, BRRTS No. 02-13-001569

Dear Mr. Schmoller:

On January 9, 2014, representatives of Madison-Kipp met with you regarding the interior manufacturing modifications required for installation of machines within the facility located at 201 Waubesa Street in Madison, Wisconsin. As part of the modifications, there is an area of concrete that will be removed and replaced, and limited soil removal that will be completed. This letter documents the initial sampling activities and the discussion on January 9 regarding sampling and material handling of the soil and concrete.

Three in-place concrete samples (Area 1, 2, 3) were collected by Madison-Kipp on December 18, 2013 and submitted to Test America for Protocol B analysis to characterize the materials for disposal. Based on these results, polychlorinated biphenyls (PCBs) from sample Area 2 (560 milligram per kilograms (mg/kg)) exceeded the Toxic Substance Control Act (TSCA) disposal limit of 50 mg/kg. These results are summarized in Table 1.

Following receipt of the analytical results, Madison-Kipp requested an on-Site meeting with you for January 9, 2014, to discuss sampling and material handling of the soil and concrete that was to be removed. During the meeting it was agreed to that Madison-Kipp would collect additional samples of the concrete and soil for profiling the materials for appropriate disposal.

Seven concrete samples (Area 4 through 10) and three soil samples (Pad 1, 2, and 3 Soil) were collected on January 15-16, 2014. The approximate locations of the samples are presented on the attached figure. Based on the results from the samples collected on December 18, 2013, the concrete samples were submitted to Test America for analysis of PCBs using United States Environmental Protection Agency (U.S. EPA) SW-846 Method 8082. Two of the soil samples were submitted for analysis of PCBs using U.S. EPA SW-846 Method 8082 and the third sample was submitted for Protocol B analysis.

The analytical results of the supplemental sampling indicated that concentrations of PCBs were not detected above the TSCA disposal limit in six of the seven concrete samples and the three soil samples. Concentrations of PCBs were detected at 480 mg/kg in sample

MKC
Madison-Kipp Corporation
Post Office Box 8043
Madison, WI 53708-8043
201 Waubesa Street
Madison, WI 53704-5729
Telephone
608-244-3511
Facsimile
608-244-4674

Area 5. The PCB results are summarized in Table 1. Copies of the laboratory reports are attached for reference.

Based on the results, the concrete surrounding samples Area 2 and Area 5 will be profiled and disposed of by The Environmental Quality Company as TSCA-regulated hazardous waste as shown on the attached figure. The remaining concrete and soil will be profiled with Advanced Disposal for non-hazardous disposal.

Should manufacturing modifications be required within the Madison-Kipp building in the future, similar methods will be used for appropriate characterization and disposal of materials. Documentation will be provided to the WDNR.

We trust that this information meets your needs. Should you require additional information, please contact one of the undersigned.

Madison Kipp Corporation

Mark Meunier
Vice President of Human Resources

Copies:
David Crass - Michael, Best, & Frederic LLP
Jennine Trask – ARCADIS US-Inc.
Ken Zolnierczyk – US EPA

Attachments:
Table 1
Figure
Laboratory reports

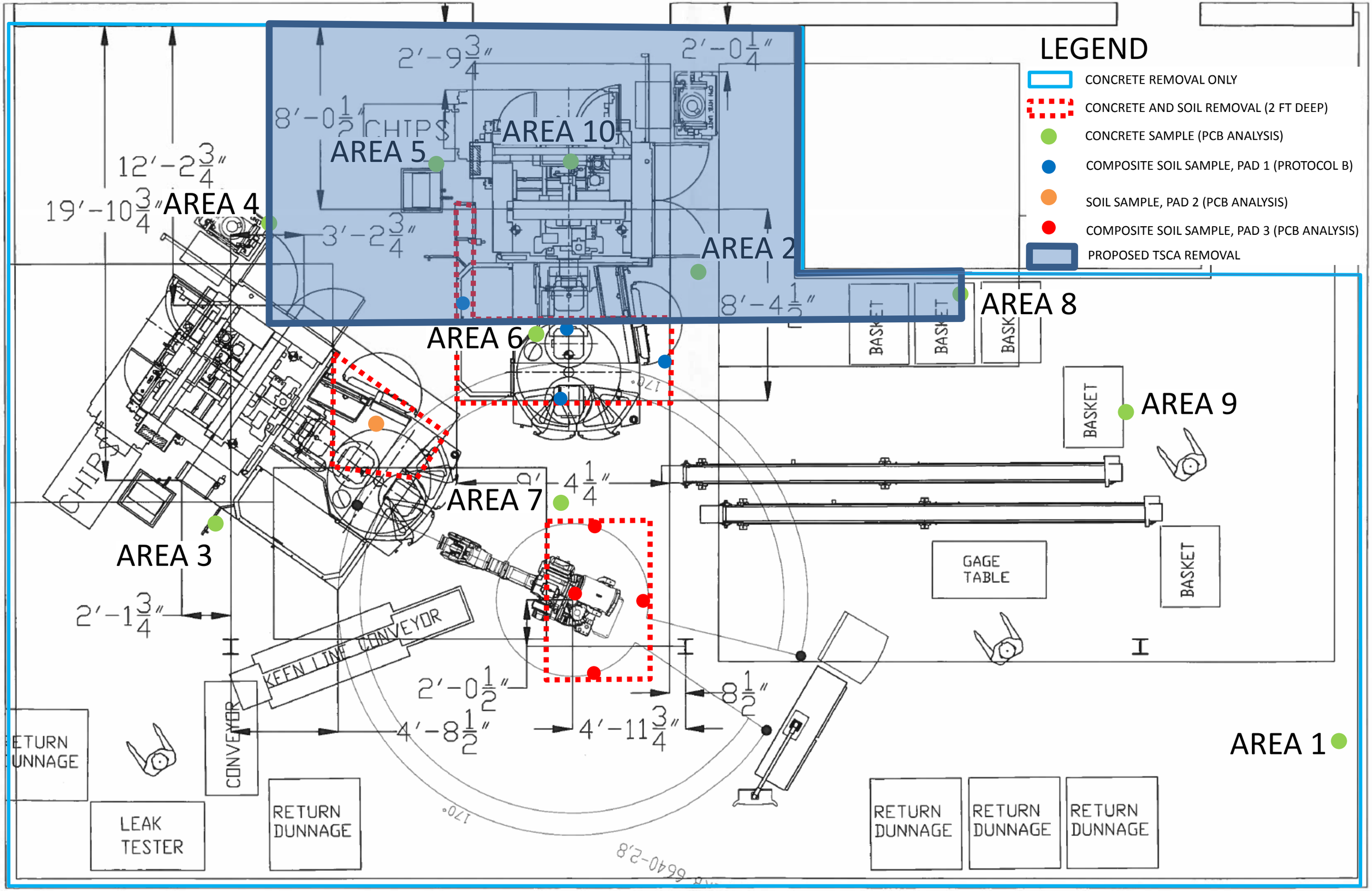

LEGEND
CONCRETE REMOVAL ONLY
CONCRETE AND SOIL REMOVAL (2 FT DEEP)
CONCRETE SAMPLE (PCB ANALYSIS)
COMPOSITE SOIL SAMPLE, PAD 1 (PROTOCOL B)
SOIL SAMPLE, PAD 2 (PCB ANALYSIS)
COMPOSITE SOIL SAMPLE, PAD 3 (PCB ANALYSIS)
PROPOSED TSCA REMOVAL
AREA 1
AREA 2
AREA 3
AREA 4
AREA 5
AREA 6
AREA 7
AREA 8
AREA 9
AREA 10
CHIPS
BASKET
GAGE TABLE
KEEN LINE CONVEYOR
CONVEYOR
RETURN DUNNAGE
LEAK TESTER
2′-9 3/4″
2′-0 1/4″
8′-0 1/2″
12′-2 3/4″
19′-10 3/4″
3′-2 3/4″
8′-4 1/2″
9′-4 1/4″
2′-1 3/4″
2′-0 1/2″
4′-8 1/2″
4′-11 3/4″
8 1/2″

Table 1. Summary of Concrete and Soil Analytical Results, Building Interior Modifications, Madison-Kipp Corporation, Madison, Wisconsin.

Well/Boring Sample Date	Industrial Direct Contact RCL	TSCA Disposal Limit	Area 1 12/18/2013	Area 2 12/18/2013	Area 3 12/18/2013	Area 4 1/15/2014	Area 5 1/15/2014	Area 6 1/15/2014	Area 7 1/15/2014
PCBs									
Aroclor-1242	0.744	NE	<0.0054	560	3.9	0.31	480	6.2	2.7
Aroclor-1248	0.744	NE	0.31	<13	<0.13	<0.0066	<13	<0.13	<0.13
Aroclor-1254	0.744	NE	<0.0036	<7.2	1.7	<0.0036	<7.2	1.4	0.8
Aroclor-1260	0.744	NE	<0.0081	<16	<0.16	<0.0082	<16	<0.16	<0.17
Total Detected PCBs	NE	50	0.31	560	5.6	0.31	480	7.6	3.5

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

100	Exceeds the WDNR's industrial direct contact residual contaminant level.
100	Exceeds the Toxic Substances Control Act disposal limit.
<	Constituent not detected above noted laboratory detection limit.
EPA	United States Environmental Protection Agency
NE	Criteria not established.
ND	Total PCBs less than the laboratory detection limit.
PCBs	Polychlorinated biphenyls.
RCL	Residual contaminant level.
TSCA	Toxic Substance Control Act.

Table 1. Summary of Concrete and Soil Analytical Results, Building Interior Modifications, Madison-Kipp Corporation, Madison, Wisconsin.

Well/Boring	Area 8	Area 9	Area 10	Pad 1 soil	Pad 2 soil	Pad 3 soil
Sample Date	**1/15/2014**	**1/15/2014**	**1/15/2014**	**1/15/2014**	**1/16/2014**	**1/16/2014**
PCBs						
Aroclor-1242	<0.0055	<0.0056	0.11	4.2	0.12	0.23
Aroclor-1248	<0.0067	<0.0067	<0.0067	<0.13	<0.0087	<0.0076
Aroclor-1254	<0.0036	<0.0037	<0.0037	0.55	0.048	0.13
Aroclor-1260	<0.0083	<0.0084	<0.0084	<0.16	<0.011	0.058
Total Detected PCBs	ND	ND	0.11	4.75	0.168	0.418

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

100	Exceeds the WDNR's industrial direct contact residual contaminant level.
100	Exceeds the Toxic Substances Control Act disposal limit.
<	Constituent not detected above noted laboratory detection limit.
EPA	United States Environmental Protection Agency
NE	Criteria not established.
ND	Total PCBs less than the laboratory detection limit.
PCBs	Polychlorinated biphenyls.
RCL	Residual contaminant level.
TSCA	Toxic Substance Control Act.

MKC
Madison-Kipp Corporation

Post Office Box 8043
Madison, WI 53708-8043

201 Waubesa Street
Madison, WI 53704-5728

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

Subject:
Interior Building Maintenance, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin. Facility ID No. 113125320, BRRTS No. 02-13-001569

Dear Mr. Schmoller:

On April 10, 2014, a representative of Madison-Kipp spoke with you regarding the interior building maintenance required for installation of machines within the facility located at 201 Waubesa Street in Madison, Wisconsin. As part of the installations, there is an area of concrete that will be removed and replaced, and limited soil removal that will be completed. This letter documents the initial sampling activities and the discussion on April 10 regarding sampling and material handling of the soil and concrete.

Three in-place concrete samples (Quality 1, 2, and 3) were collected by Madison-Kipp on March 24, 2014 and submitted to Test America for Protocol B analysis to characterize the materials for disposal. Based on these results, polychlorinated biphenyls (PCBs) from sample Quality 1 (100 milligram per kilograms (mg/kg)) exceeded the Toxic Substance Control Act (TSCA) disposal limit of 50 mg/kg. These results are summarized in Table 1.

Madison-Kipp collected additional samples of the concrete for profiling the materials for appropriate disposal. Four concrete samples (Quality 4 through 7) were collected on April 7, 2014. The approximate locations of the samples are presented on the attached figure. Based on the results from the samples collected on March 24, 2014, the concrete samples were submitted to Test America for analysis of PCBs using United States Environmental Protection Agency (U.S. EPA) SW-846 Method 8082.

The analytical results of the supplemental sampling indicated that concentrations of PCBs were not detected above the TSCA disposal limit. The PCB results are summarized in Table 1. Copies of the laboratory reports are attached for reference.

Based on the results, the concrete surrounding sample Quality 1 will be profiled and disposed of by The Environmental Quality Company as TSCA-regulated hazardous waste as shown on the attached figure. The remaining concrete and soil will be profiled with Advanced Disposal for non-hazardous disposal.

MKC
Madison-Kipp Corporation

Post Office Box 8043
Madison, WI 53708-8043

201 Waubesa Street
Madison, WI 53704-5728

Should building maintenance be required within the Madison-Kipp building in the future, similar methods will be used for appropriate characterization and disposal of materials. Documentation will be provided to the WDNR.

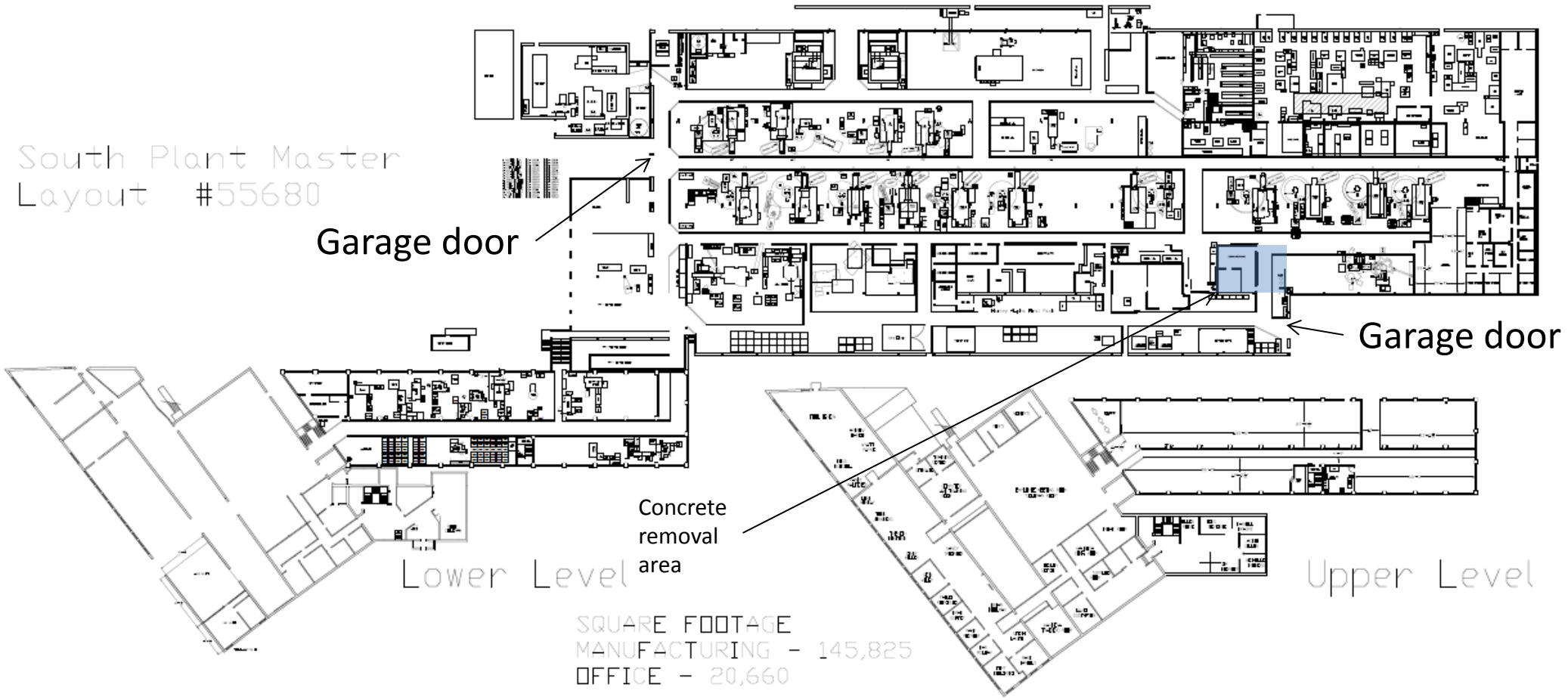
We trust that this information meets your needs. Should you require additional information, please contact one of the undersigned.

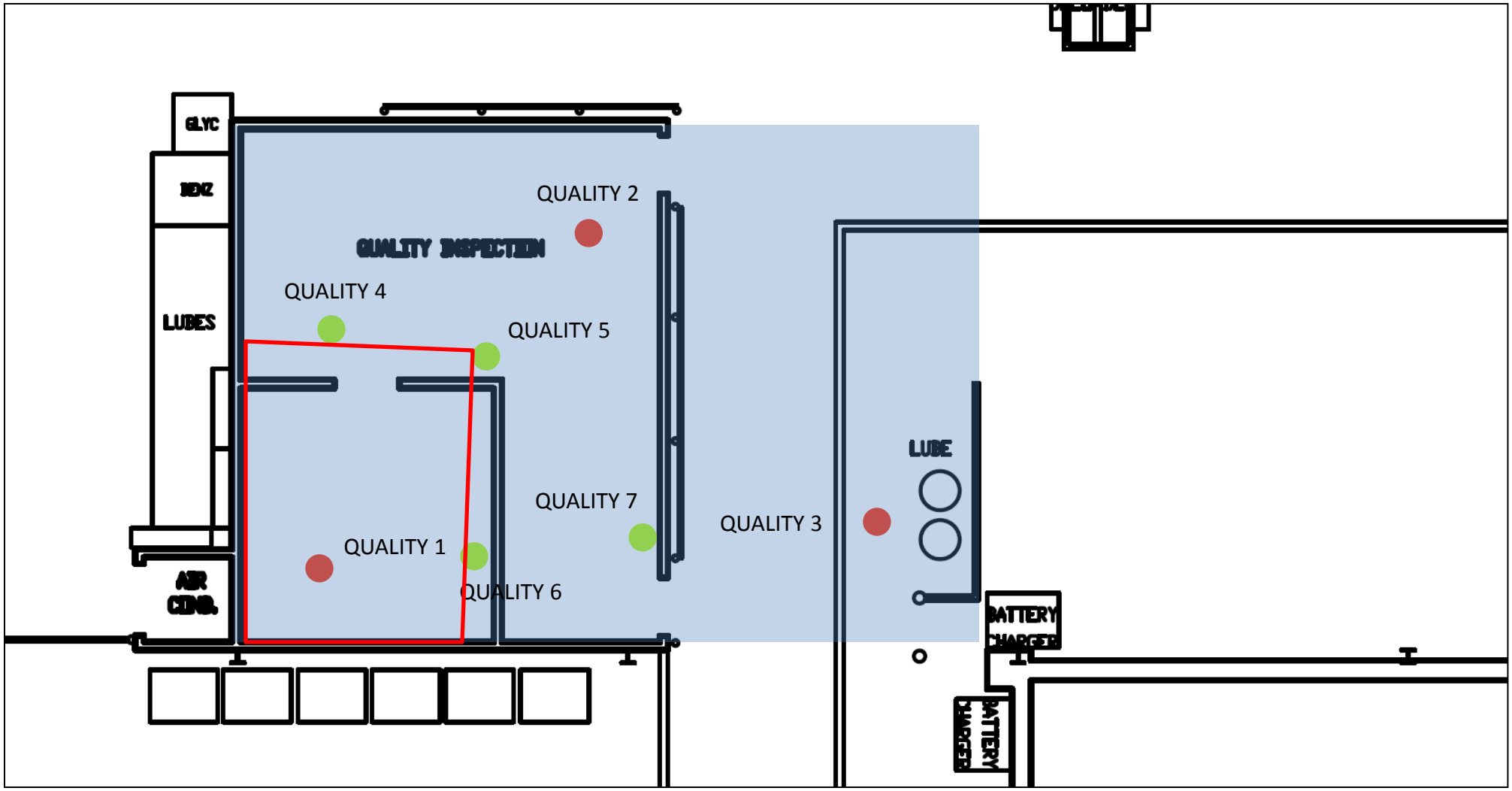
Madison Kipp Corporation

Mark Meunier
Vice President of Human Resources

Copies:
David Crass - Michael, Best, & Friedrich LLP
Jennine Trask – ARCADIS US-Inc.
Ken Zolnierczyk – US EPA

Attachments:
Table 1
Figure
Laboratory reports


South Plant Master
Layout #55680
Garage door
Garage door
Concrete
removal
area
Lower Level
Upper Level
SQUARE FOOTAGE
MANUFACTURING - 145,825
OFFICE - 20,660



LEGEND

- CONCRETE SAMPLE FOR PROTOCOL B
- CONCRETE SAMPLE FOR TOTAL PCBS 8082
- AREA TO BE REMOVED (~30' X 40')
- AREA TO BE REMOVED as TSCA waste
- COMPOSITE SOIL SAMPLE FOR PROTOCOL B

Table 1. Summary of Concrete and Soil Analytical Results, Building Interior Modifications, Madison-Kipp Corporation, Madison, Wisconsin

Boring Sample Date	Industrial Direct Contact RCL	TSCA Disposal Limit	Quality 1 3/24/2014	Quality 2 3/24/2014	Quality 3 3/24/2014	Quality 4 4/7/2014	Quality 5 4/7/2014	Quality 6 4/7/2014	Quality 7 4/7/2014	Quality Soil 3/24/2014
PCBs										
Aroclor-1242	0.744	NE	100	2.8	<2.7	4.8	0.51	22	7.8	20
Aroclor-1248	0.744	NE	<6.3	<0.32	16	<0.32	<0.33	<0.62	<0.65	<0.63
Aroclor-1254	0.744	NE	<3.5	<0.17	<1.8	<0.17	0.14	<0.34	3.2	<0.34
Total Detected PCBs	NE	50	100	2.8	16	4.8	0.65	22	11	20

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

100	Exceeds the WDNR's industrial direct contact residual contaminant level.
100	Exceeds the Toxic Substances Control Act disposal limit.
<	Constituent not detected above noted laboratory detection limit.
EPA	United States Environmental Protection Agency
NE	Criteria not established.
ND	Total PCBs less than the laboratory detection limit.
PCBs	Polychlorinated biphenyls.
RCL	Residual contaminant level.
TSCA	Toxic Substance Control Act.

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: 500-73885-1
Client Project/Site: MadisonKipp - Concrete Repair

For:
Madison-Kipp Corporation
201 Waubesa Street
Madison, Wisconsin 53704

Attn: Alina Walcek

Authorized for release by:
4/2/2014 12:29:51 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.

Table of Contents

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - Concrete Repair

TestAmerica Job ID: 500-73885-1

Job ID: 500-73885-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-73885-1

Comments
No additional comments.

Receipt
The samples were received on 3/26/2014 9:50 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
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8082: The following samples were diluted to bring the concentration of target analytes within the calibration range: Quality 1 (500-73885-1), Quality 2 (500-73885-2), Quality 3 (500-73885-3), Quality Soil (500-73885-4). Elevated reporting limits (RLs) are provided.

Method(s) 8082: The following sample(s) required a dilution due to the nature of the sample matrix: Quality 1 (500-73885-1), Quality 2 (500-73885-2), Quality 3 (500-73885-3), Quality Soil (500-73885-4). Because of these dilutions, the surrogate spike concentration in the samples was reduced to a level where the recovery calculation does not provide useful information.

No other analytical or quality issues were noted.

Metals
Method(s) 6010B: The %RSD for the CCV in AD batch 229343 at line 51 was outside the 5% control limits for Ag, As, Ba, Cd, Cr, Cu and Zn; however both burns were within control limits. The data has been reported.

No other analytical or quality issues were noted.

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

Subcontract non-Sister
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.

Subcontract Work
Method Chlorine Parr Bomb: This method was subcontracted to SF Analytical Laboratories. The subcontract certification is different from those listed on the TestAmerica cover page of this final report.

Detection Summary

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - Concrete Repair

TestAmerica Job ID: 500-73885-1

Client Sample ID: Quality 1 — Lab Sample ID: 500-73885-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
3 & 4 Methylphenol	0.083		0.020	0.020	mg/L	1		8270D	TCLP
Phenol	0.41		0.050	0.050	mg/L	1		8270D	TCLP
PCB-1242	100000		16000	5300	ug/Kg	1000		8082	Total/NA
Polychlorinated biphenyls, Total	100000		16000	3100	ug/Kg	1000		8082	Total/NA
Barium	0.29	J	0.50	0.050	mg/L	1		6010B	TCLP
Chromium	0.024	J	0.025	0.010	mg/L	1		6010B	TCLP
Flashpoint	>176		40.0	40.0	Degrees F	1		1010	Total/NA
Cyanide, Total	0.22	J	0.46	0.15	mg/Kg	1		9014	Total/NA
Sulfide	8.7	J	9.9	4.7	mg/Kg	1		9034	Total/NA
pH	12.5		0.200	0.200	SU	1		9045C	Total/NA
Paint Filter	pass				mL/100g	1		9095A	Total/NA
Specific Gravity	1.29				NONE	1		SM 2710F	Total/NA

Client Sample ID: Quality 2 — Lab Sample ID: 500-73885-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
3 & 4 Methylphenol	0.080		0.020	0.020	mg/L	1		8270D	TCLP
Phenol	0.38		0.050	0.050	mg/L	1		8270D	TCLP
PCB-1242	2800		810	270	ug/Kg	50		8082	Total/NA
Polychlorinated biphenyls, Total	2800		810	150	ug/Kg	50		8082	Total/NA
Barium	0.21	J	0.50	0.050	mg/L	1		6010B	TCLP
Chromium	0.032		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Flashpoint	>176		40.0	40.0	Degrees F	1		1010	Total/NA
Cyanide, Total	0.19	J	0.50	0.16	mg/Kg	1		9014	Total/NA
pH	12.4		0.200	0.200	SU	1		9045C	Total/NA
Paint Filter	pass				mL/100g	1		9095A	Total/NA
Specific Gravity	1.47				NONE	1		SM 2710F	Total/NA

Client Sample ID: Quality 3 — Lab Sample ID: 500-73885-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
3 & 4 Methylphenol	0.077		0.020	0.020	mg/L	1		8270D	TCLP
Phenol - DL	1.0		0.25	0.25	mg/L	5		8270D	TCLP
PCB-1248	16000		8300	3300	ug/Kg	500		8082	Total/NA
Polychlorinated biphenyls, Total	16000		8300	1600	ug/Kg	500		8082	Total/NA
Barium	0.66		0.50	0.050	mg/L	1		6010B	TCLP
Flashpoint	>176		40.0	40.0	Degrees F	1		1010	Total/NA
Cyanide, Total	5.5		0.46	0.15	mg/Kg	1		9014	Total/NA
Sulfide	11		9.9	4.7	mg/Kg	1		9034	Total/NA
pH	12.5		0.200	0.200	SU	1		9045C	Total/NA
Paint Filter	pass				mL/100g	1		9095A	Total/NA
Specific Gravity	1.42				NONE	1		SM 2710F	Total/NA

Client Sample ID: Quality Soil — Lab Sample ID: 500-73885-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	20000		1600	520	ug/Kg	100		8082	Total/NA
Polychlorinated biphenyls, Total	20000		1600	310	ug/Kg	100		8082	Total/NA
Barium	0.51		0.50	0.050	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - Concrete Repair

TestAmerica Job ID: 500-73885-1

Client Sample ID: Quality Soil (Continued)

Lab Sample ID: 500-73885-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	0.031	J	0.10	0.020	mg/L	1		6010B	TCLP
Flashpoint	>176		40.0	40.0	Degrees F	1		1010	Total/NA
Cyanide, Total	0.17	J	0.50	0.16	mg/Kg	1		9014	Total/NA
Sulfide	7.4	J	9.7	4.6	mg/Kg	1		9034	Total/NA
pH	9.51		0.200	0.200	SU	1		9045C	Total/NA
Paint Filter	pass				mL/100g	1		9095A	Total/NA
Specific Gravity	1.92				NONE	1		SM 2710F	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - Concrete Repair

TestAmerica Job ID: 500-73885-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
7470A	Mercury (CVAA)	SW846	TAL CHI
1010	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL CHI
9014	Cyanide	SW846	TAL CHI
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	TAL CHI
9045C	pH	SW846	TAL CHI
9095A	Paint Filter	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
SM 2710F	Specific Gravity, Density	SM	TAL CHI
Chlorine Parr Bomb	General Sub Contract Method	NONE	SFAL

Protocol References:

EPA = US Environmental Protection Agency

NONE = NONE

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

SFAL = SF Analytical Laboratories, 2345 South 170th Street, New Berlin, WI 53151

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

Sample Summary

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - Concrete Repair

TestAmerica Job ID: 500-73885-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-73885-1	Quality 1	Solid	03/24/14 12:30	03/26/14 09:50
500-73885-2	Quality 2	Solid	03/24/14 13:00	03/26/14 09:50
500-73885-3	Quality 3	Solid	03/24/14 13:45	03/26/14 09:50
500-73885-4	Quality Soil	Soil	03/25/14 08:30	03/26/14 09:50

Client Sample ID: Quality 1
Date Collected: 03/24/14 12:30
Date Received: 03/26/14 09:50

Lab Sample ID: 500-73885-1
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.010		0.020	0.010	mg/L			03/30/14 13:41	20
Carbon tetrachloride	<0.010		0.020	0.010	mg/L			03/30/14 13:41	20
Chlorobenzene	<0.010		0.020	0.010	mg/L			03/30/14 13:41	20
Chloroform	<0.010		0.020	0.010	mg/L			03/30/14 13:41	20
1,2-Dichloroethane	<0.010		0.020	0.010	mg/L			03/30/14 13:41	20
1,1-Dichloroethene	<0.010		0.020	0.010	mg/L			03/30/14 13:41	20
Methyl Ethyl Ketone	<0.050		0.10	0.050	mg/L			03/30/14 13:41	20
Tetrachloroethene	<0.010		0.020	0.010	mg/L			03/30/14 13:41	20
Trichloroethene	<0.010		0.020	0.010	mg/L			03/30/14 13:41	20
Vinyl chloride	<0.010		0.020	0.010	mg/L			03/30/14 13:41	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 125*		*03/30/14 13:41*	*20*
Toluene-d8 (Surr)	*104*		*75 - 120*		*03/30/14 13:41*	*20*
4-Bromofluorobenzene (Surr)	*82*		*75 - 120*		*03/30/14 13:41*	*20*
Dibromofluoromethane	*97*		*75 - 120*		*03/30/14 13:41*	*20*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.020		0.020	0.020	mg/L		03/28/14 17:35	03/31/14 19:16	1
2,4,5-Trichlorophenol	<0.10		0.10	0.10	mg/L		03/28/14 17:35	03/31/14 19:16	1
2,4,6-Trichlorophenol	<0.050		0.050	0.050	mg/L		03/28/14 17:35	03/31/14 19:16	1
2,4-Dinitrotoluene	<0.010		0.010	0.010	mg/L		03/28/14 17:35	03/31/14 19:16	1
2-Methylphenol	<0.020		0.020	0.020	mg/L		03/28/14 17:35	03/31/14 19:16	1
3 & 4 Methylphenol	**0.083**		0.020	0.020	mg/L		03/28/14 17:35	03/31/14 19:16	1
Hexachlorobenzene	<0.0050		0.0050	0.0050	mg/L		03/28/14 17:35	03/31/14 19:16	1
Hexachlorobutadiene	<0.050		0.050	0.050	mg/L		03/28/14 17:35	03/31/14 19:16	1
Hexachloroethane	<0.050		0.050	0.050	mg/L		03/28/14 17:35	03/31/14 19:16	1
Nitrobenzene	<0.010		0.010	0.010	mg/L		03/28/14 17:35	03/31/14 19:16	1
Pentachlorophenol	<0.20		0.20	0.20	mg/L		03/28/14 17:35	03/31/14 19:16	1
Phenol	**0.41**		0.050	0.050	mg/L		03/28/14 17:35	03/31/14 19:16	1
Pyridine	<0.20		0.20	0.20	mg/L		03/28/14 17:35	03/31/14 19:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*94*		*50 - 129*	*03/28/14 17:35*	*03/31/14 19:16*	*1*
2-Fluorobiphenyl	*77*		*48 - 110*	*03/28/14 17:35*	*03/31/14 19:16*	*1*
2-Fluorophenol (Surr)	*42*		*20 - 100*	*03/28/14 17:35*	*03/31/14 19:16*	*1*
Nitrobenzene-d5 (Surr)	*65*		*41 - 110*	*03/28/14 17:35*	*03/31/14 19:16*	*1*
Phenol-d5 (Surr)	*30*		*20 - 100*	*03/28/14 17:35*	*03/31/14 19:16*	*1*
Terphenyl-d14 (Surr)	*97*		*44 - 132*	*03/28/14 17:35*	*03/31/14 19:16*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5700		16000	5700	ug/Kg		03/27/14 19:03	03/28/14 15:41	1000
PCB-1221	<7100		16000	7100	ug/Kg		03/27/14 19:03	03/28/14 15:41	1000
PCB-1232	<7000		16000	7000	ug/Kg		03/27/14 19:03	03/28/14 15:41	1000
PCB-1242	**100000**		16000	5300	ug/Kg		03/27/14 19:03	03/28/14 15:41	1000
PCB-1248	<6300		16000	6300	ug/Kg		03/27/14 19:03	03/28/14 15:41	1000
PCB-1254	<3500		16000	3500	ug/Kg		03/27/14 19:03	03/28/14 15:41	1000
PCB-1260	<7900		16000	7900	ug/Kg		03/27/14 19:03	03/28/14 15:41	1000

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - Concrete Repair

TestAmerica Job ID: 500-73885-1

Client Sample ID: Quality 1
Date Collected: 03/24/14 12:30
Date Received: 03/26/14 09:50

Lab Sample ID: 500-73885-1
Matrix: Solid

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Polychlorinated biphenyls, Total	**100000**		16000	3100	ug/Kg		03/27/14 19:03	03/28/14 15:41	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*D*	*50 - 116*	*03/27/14 19:03*	*03/28/14 15:41*	*1000*
DCB Decachlorobiphenyl	*0*	*D*	*48 - 142*	*03/27/14 19:03*	*03/28/14 15:41*	*1000*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		03/28/14 08:15	03/28/14 15:53	1
Barium	**0.29**	**J**	0.50	0.050	mg/L		03/28/14 08:15	03/28/14 15:53	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		03/28/14 08:15	03/28/14 15:53	1
Chromium	**0.024**	**J**	0.025	0.010	mg/L		03/28/14 08:15	03/28/14 15:53	1
Copper	<0.010		0.025	0.010	mg/L		03/28/14 08:15	03/28/14 15:53	1
Lead	<0.0075		0.050	0.0075	mg/L		03/28/14 08:15	03/28/14 15:53	1
Nickel	<0.010		0.025	0.010	mg/L		03/28/14 08:15	03/28/14 15:53	1
Selenium	<0.010		0.050	0.010	mg/L		03/28/14 08:15	03/28/14 15:53	1
Silver	<0.010		0.025	0.010	mg/L		03/28/14 08:15	03/28/14 15:53	1
Zinc	<0.020		0.10	0.020	mg/L		03/28/14 08:15	03/28/14 15:53	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000020		0.00020	0.000020	mg/L		03/28/14 14:57	03/31/14 09:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>176**		40.0	40.0	Degrees F			03/26/14 22:02	1
Cyanide, Total	**0.22**	**J**	0.46	0.15	mg/Kg		03/27/14 09:48	03/27/14 15:50	1
Sulfide	**8.7**	**J**	9.9	4.7	mg/Kg		03/31/14 08:15	03/31/14 09:58	1
pH	**12.5**		0.200	0.200	SU			04/01/14 14:15	1
Paint Filter	**pass**				mL/100g			03/27/14 22:55	1
Specific Gravity	**1.29**				NONE			03/28/14 21:39	1

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - Concrete Repair

TestAmerica Job ID: 500-73885-1

Client Sample ID: Quality 2
Date Collected: 03/24/14 13:00
Date Received: 03/26/14 09:50

Lab Sample ID: 500-73885-2
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.010		0.020	0.010	mg/L			03/30/14 14:06	20
Carbon tetrachloride	<0.010		0.020	0.010	mg/L			03/30/14 14:06	20
Chlorobenzene	<0.010		0.020	0.010	mg/L			03/30/14 14:06	20
Chloroform	<0.010		0.020	0.010	mg/L			03/30/14 14:06	20
1,2-Dichloroethane	<0.010		0.020	0.010	mg/L			03/30/14 14:06	20
1,1-Dichloroethene	<0.010		0.020	0.010	mg/L			03/30/14 14:06	20
Methyl Ethyl Ketone	<0.050		0.10	0.050	mg/L			03/30/14 14:06	20
Tetrachloroethene	<0.010		0.020	0.010	mg/L			03/30/14 14:06	20
Trichloroethene	<0.010		0.020	0.010	mg/L			03/30/14 14:06	20
Vinyl chloride	<0.010		0.020	0.010	mg/L			03/30/14 14:06	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 125*		*03/30/14 14:06*	*20*
Toluene-d8 (Surr)	*103*		*75 - 120*		*03/30/14 14:06*	*20*
4-Bromofluorobenzene (Surr)	*79*		*75 - 120*		*03/30/14 14:06*	*20*
Dibromofluoromethane	*98*		*75 - 120*		*03/30/14 14:06*	*20*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.020		0.020	0.020	mg/L		03/28/14 17:35	03/31/14 19:40	1
2,4,5-Trichlorophenol	<0.10		0.10	0.10	mg/L		03/28/14 17:35	03/31/14 19:40	1
2,4,6-Trichlorophenol	<0.050		0.050	0.050	mg/L		03/28/14 17:35	03/31/14 19:40	1
2,4-Dinitrotoluene	<0.010		0.010	0.010	mg/L		03/28/14 17:35	03/31/14 19:40	1
2-Methylphenol	<0.020		0.020	0.020	mg/L		03/28/14 17:35	03/31/14 19:40	1
3 & 4 Methylphenol	**0.080**		0.020	0.020	mg/L		03/28/14 17:35	03/31/14 19:40	1
Hexachlorobenzene	<0.0050		0.0050	0.0050	mg/L		03/28/14 17:35	03/31/14 19:40	1
Hexachlorobutadiene	<0.050		0.050	0.050	mg/L		03/28/14 17:35	03/31/14 19:40	1
Hexachloroethane	<0.050		0.050	0.050	mg/L		03/28/14 17:35	03/31/14 19:40	1
Nitrobenzene	<0.010		0.010	0.010	mg/L		03/28/14 17:35	03/31/14 19:40	1
Pentachlorophenol	<0.20		0.20	0.20	mg/L		03/28/14 17:35	03/31/14 19:40	1
Phenol	**0.38**		0.050	0.050	mg/L		03/28/14 17:35	03/31/14 19:40	1
Pyridine	<0.20		0.20	0.20	mg/L		03/28/14 17:35	03/31/14 19:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*92*		*50 - 129*	*03/28/14 17:35*	*03/31/14 19:40*	*1*
2-Fluorobiphenyl	*76*		*48 - 110*	*03/28/14 17:35*	*03/31/14 19:40*	*1*
2-Fluorophenol (Surr)	*45*		*20 - 100*	*03/28/14 17:35*	*03/31/14 19:40*	*1*
Nitrobenzene-d5 (Surr)	*68*		*41 - 110*	*03/28/14 17:35*	*03/31/14 19:40*	*1*
Phenol-d5 (Surr)	*32*		*20 - 100*	*03/28/14 17:35*	*03/31/14 19:40*	*1*
Terphenyl-d14 (Surr)	*101*		*44 - 132*	*03/28/14 17:35*	*03/31/14 19:40*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<290		810	290	ug/Kg		03/27/14 19:03	03/28/14 15:00	50
PCB-1221	<360		810	360	ug/Kg		03/27/14 19:03	03/28/14 15:00	50
PCB-1232	<350		810	350	ug/Kg		03/27/14 19:03	03/28/14 15:00	50
PCB-1242	**2800**		810	270	ug/Kg		03/27/14 19:03	03/28/14 15:00	50
PCB-1248	<320		810	320	ug/Kg		03/27/14 19:03	03/28/14 15:00	50
PCB-1254	<170		810	170	ug/Kg		03/27/14 19:03	03/28/14 15:00	50
PCB-1260	<400		810	400	ug/Kg		03/27/14 19:03	03/28/14 15:00	50

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - Concrete Repair

TestAmerica Job ID: 500-73885-1

Client Sample ID: Quality 2
Date Collected: 03/24/14 13:00
Date Received: 03/26/14 09:50

Lab Sample ID: 500-73885-2
Matrix: Solid

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Polychlorinated biphenyls, Total	**2800**		810	150	ug/Kg		03/27/14 19:03	03/28/14 15:00	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*D*	*50 - 116*	*03/27/14 19:03*	*03/28/14 15:00*	*50*
DCB Decachlorobiphenyl	*0*	*D*	*48 - 142*	*03/27/14 19:03*	*03/28/14 15:00*	*50*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		03/28/14 08:15	03/28/14 15:59	1
Barium	**0.21**	**J**	0.50	0.050	mg/L		03/28/14 08:15	03/28/14 15:59	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		03/28/14 08:15	03/28/14 15:59	1
Chromium	**0.032**		0.025	0.010	mg/L		03/28/14 08:15	03/28/14 15:59	1
Copper	<0.010		0.025	0.010	mg/L		03/28/14 08:15	03/28/14 15:59	1
Lead	<0.0075		0.050	0.0075	mg/L		03/28/14 08:15	03/28/14 15:59	1
Nickel	**0.012**	**J**	0.025	0.010	mg/L		03/28/14 08:15	03/28/14 15:59	1
Selenium	<0.010		0.050	0.010	mg/L		03/28/14 08:15	03/28/14 15:59	1
Silver	<0.010		0.025	0.010	mg/L		03/28/14 08:15	03/28/14 15:59	1
Zinc	<0.020		0.10	0.020	mg/L		03/28/14 08:15	03/28/14 15:59	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000020		0.00020	0.000020	mg/L		03/28/14 14:57	03/31/14 09:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>176**		40.0	40.0	Degrees F			03/26/14 23:56	1
Cyanide, Total	**0.19**	**J**	0.50	0.16	mg/Kg		03/27/14 09:48	03/27/14 15:51	1
Sulfide	<4.7		9.8	4.7	mg/Kg		03/31/14 08:25	03/31/14 10:01	1
pH	**12.4**		0.200	0.200	SU			04/01/14 14:24	1
Paint Filter	**pass**				mL/100g			03/27/14 22:55	1
Specific Gravity	**1.47**				NONE			03/28/14 21:48	1

Client Sample ID: Quality 3
Date Collected: 03/24/14 13:45
Date Received: 03/26/14 09:50

Lab Sample ID: 500-73885-3
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.010		0.020	0.010	mg/L			03/30/14 14:31	20
Carbon tetrachloride	<0.010		0.020	0.010	mg/L			03/30/14 14:31	20
Chlorobenzene	<0.010		0.020	0.010	mg/L			03/30/14 14:31	20
Chloroform	<0.010		0.020	0.010	mg/L			03/30/14 14:31	20
1,2-Dichloroethane	<0.010		0.020	0.010	mg/L			03/30/14 14:31	20
1,1-Dichloroethene	<0.010		0.020	0.010	mg/L			03/30/14 14:31	20
Methyl Ethyl Ketone	<0.050		0.10	0.050	mg/L			03/30/14 14:31	20
Tetrachloroethene	<0.010		0.020	0.010	mg/L			03/30/14 14:31	20
Trichloroethene	<0.010		0.020	0.010	mg/L			03/30/14 14:31	20
Vinyl chloride	<0.010		0.020	0.010	mg/L			03/30/14 14:31	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 125*		*03/30/14 14:31*	*20*
Toluene-d8 (Surr)	*105*		*75 - 120*		*03/30/14 14:31*	*20*
4-Bromofluorobenzene (Surr)	*82*		*75 - 120*		*03/30/14 14:31*	*20*
Dibromofluoromethane	*92*		*75 - 120*		*03/30/14 14:31*	*20*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.020		0.020	0.020	mg/L		03/28/14 17:35	04/01/14 14:15	1
2,4,5-Trichlorophenol	<0.10		0.10	0.10	mg/L		03/28/14 17:35	04/01/14 14:15	1
2,4,6-Trichlorophenol	<0.050		0.050	0.050	mg/L		03/28/14 17:35	04/01/14 14:15	1
2,4-Dinitrotoluene	<0.010		0.010	0.010	mg/L		03/28/14 17:35	04/01/14 14:15	1
2-Methylphenol	<0.020		0.020	0.020	mg/L		03/28/14 17:35	04/01/14 14:15	1
3 & 4 Methylphenol	**0.077**		0.020	0.020	mg/L		03/28/14 17:35	04/01/14 14:15	1
Hexachlorobenzene	<0.0050		0.0050	0.0050	mg/L		03/28/14 17:35	04/01/14 14:15	1
Hexachlorobutadiene	<0.050		0.050	0.050	mg/L		03/28/14 17:35	04/01/14 14:15	1
Hexachloroethane	<0.050		0.050	0.050	mg/L		03/28/14 17:35	04/01/14 14:15	1
Nitrobenzene	<0.010		0.010	0.010	mg/L		03/28/14 17:35	04/01/14 14:15	1
Pentachlorophenol	<0.20		0.20	0.20	mg/L		03/28/14 17:35	04/01/14 14:15	1
Pyridine	<0.20		0.20	0.20	mg/L		03/28/14 17:35	04/01/14 14:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*108*		*50 - 129*	*03/28/14 17:35*	*04/01/14 14:15*	*1*
2-Fluorobiphenyl	*74*		*48 - 110*	*03/28/14 17:35*	*04/01/14 14:15*	*1*
2-Fluorophenol (Surr)	*41*		*20 - 100*	*03/28/14 17:35*	*04/01/14 14:15*	*1*
Nitrobenzene-d5 (Surr)	*66*		*41 - 110*	*03/28/14 17:35*	*04/01/14 14:15*	*1*
Phenol-d5 (Surr)	*31*		*20 - 100*	*03/28/14 17:35*	*04/01/14 14:15*	*1*
Terphenyl-d14 (Surr)	*97*		*44 - 132*	*03/28/14 17:35*	*04/01/14 14:15*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	**1.0**		0.25	0.25	mg/L		03/28/14 17:35	04/01/14 12:41	5

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<2900		8300	2900	ug/Kg		03/27/14 19:03	03/28/14 15:14	500
PCB-1221	<3700		8300	3700	ug/Kg		03/27/14 19:03	03/28/14 15:14	500
PCB-1232	<3600		8300	3600	ug/Kg		03/27/14 19:03	03/28/14 15:14	500
PCB-1242	<2700		8300	2700	ug/Kg		03/27/14 19:03	03/28/14 15:14	500

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - Concrete Repair

TestAmerica Job ID: 500-73885-1

Client Sample ID: Quality 3
Date Collected: 03/24/14 13:45
Date Received: 03/26/14 09:50

Lab Sample ID: 500-73885-3
Matrix: Solid

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	**16000**		8300	3300	ug/Kg		03/27/14 19:03	03/28/14 15:14	500
PCB-1254	<1800		8300	1800	ug/Kg		03/27/14 19:03	03/28/14 15:14	500
PCB-1260	<4100		8300	4100	ug/Kg		03/27/14 19:03	03/28/14 15:14	500
Polychlorinated biphenyls, Total	**16000**		8300	1600	ug/Kg		03/27/14 19:03	03/28/14 15:14	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*D*	*50 - 116*	*03/27/14 19:03*	*03/28/14 15:14*	*500*
DCB Decachlorobiphenyl	*0*	*D*	*48 - 142*	*03/27/14 19:03*	*03/28/14 15:14*	*500*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		03/28/14 08:15	03/28/14 16:20	1
Barium	**0.66**		0.50	0.050	mg/L		03/28/14 08:15	03/28/14 16:20	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		03/28/14 08:15	03/28/14 16:20	1
Chromium	<0.010		0.025	0.010	mg/L		03/28/14 08:15	03/28/14 16:20	1
Copper	<0.010		0.025	0.010	mg/L		03/28/14 08:15	03/28/14 16:20	1
Lead	<0.0075		0.050	0.0075	mg/L		03/28/14 08:15	03/28/14 16:20	1
Nickel	<0.010		0.025	0.010	mg/L		03/28/14 08:15	03/28/14 16:20	1
Selenium	<0.010		0.050	0.010	mg/L		03/28/14 08:15	03/28/14 16:20	1
Silver	<0.010		0.025	0.010	mg/L		03/28/14 08:15	03/28/14 16:20	1
Zinc	<0.020		0.10	0.020	mg/L		03/28/14 08:15	03/28/14 16:20	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000020		0.00020	0.000020	mg/L		03/28/14 14:57	03/31/14 09:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>176**		40.0	40.0	Degrees F			03/27/14 15:15	1
Cyanide, Total	**5.5**		0.46	0.15	mg/Kg		03/27/14 09:48	03/27/14 15:51	1
Sulfide	**11**		9.9	4.7	mg/Kg		03/31/14 08:35	03/31/14 10:03	1
pH	**12.5**		0.200	0.200	SU			04/01/14 14:28	1
Paint Filter	**pass**				mL/100g			03/27/14 22:55	1
Specific Gravity	**1.42**				NONE			03/28/14 21:57	1

Client Sample ID: Quality Soil
Date Collected: 03/25/14 08:30
Date Received: 03/26/14 09:50

Lab Sample ID: 500-73885-4
Matrix: Soil

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.010		0.020	0.010	mg/L			03/30/14 14:55	20
Carbon tetrachloride	<0.010		0.020	0.010	mg/L			03/30/14 14:55	20
Chlorobenzene	<0.010		0.020	0.010	mg/L			03/30/14 14:55	20
Chloroform	<0.010		0.020	0.010	mg/L			03/30/14 14:55	20
1,2-Dichloroethane	<0.010		0.020	0.010	mg/L			03/30/14 14:55	20
1,1-Dichloroethene	<0.010		0.020	0.010	mg/L			03/30/14 14:55	20
Methyl Ethyl Ketone	<0.050		0.10	0.050	mg/L			03/30/14 14:55	20
Tetrachloroethene	<0.010		0.020	0.010	mg/L			03/30/14 14:55	20
Trichloroethene	<0.010		0.020	0.010	mg/L			03/30/14 14:55	20
Vinyl chloride	<0.010		0.020	0.010	mg/L			03/30/14 14:55	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 125*		*03/30/14 14:55*	*20*
Toluene-d8 (Surr)	*104*		*75 - 120*		*03/30/14 14:55*	*20*
4-Bromofluorobenzene (Surr)	*78*		*75 - 120*		*03/30/14 14:55*	*20*
Dibromofluoromethane	*99*		*75 - 120*		*03/30/14 14:55*	*20*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.020		0.020	0.020	mg/L		03/28/14 17:35	03/31/14 20:28	1
2,4,5-Trichlorophenol	<0.10		0.10	0.10	mg/L		03/28/14 17:35	03/31/14 20:28	1
2,4,6-Trichlorophenol	<0.050		0.050	0.050	mg/L		03/28/14 17:35	03/31/14 20:28	1
2,4-Dinitrotoluene	<0.010		0.010	0.010	mg/L		03/28/14 17:35	03/31/14 20:28	1
2-Methylphenol	<0.020		0.020	0.020	mg/L		03/28/14 17:35	03/31/14 20:28	1
3 & 4 Methylphenol	<0.020		0.020	0.020	mg/L		03/28/14 17:35	03/31/14 20:28	1
Hexachlorobenzene	<0.0050		0.0050	0.0050	mg/L		03/28/14 17:35	03/31/14 20:28	1
Hexachlorobutadiene	<0.050		0.050	0.050	mg/L		03/28/14 17:35	03/31/14 20:28	1
Hexachloroethane	<0.050		0.050	0.050	mg/L		03/28/14 17:35	03/31/14 20:28	1
Nitrobenzene	<0.010		0.010	0.010	mg/L		03/28/14 17:35	03/31/14 20:28	1
Pentachlorophenol	<0.20		0.20	0.20	mg/L		03/28/14 17:35	03/31/14 20:28	1
Phenol	<0.050		0.050	0.050	mg/L		03/28/14 17:35	03/31/14 20:28	1
Pyridine	<0.20		0.20	0.20	mg/L		03/28/14 17:35	03/31/14 20:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*91*		*50 - 129*	*03/28/14 17:35*	*03/31/14 20:28*	*1*
2-Fluorobiphenyl	*79*		*48 - 110*	*03/28/14 17:35*	*03/31/14 20:28*	*1*
2-Fluorophenol (Surr)	*47*		*20 - 100*	*03/28/14 17:35*	*03/31/14 20:28*	*1*
Nitrobenzene-d5 (Surr)	*69*		*41 - 110*	*03/28/14 17:35*	*03/31/14 20:28*	*1*
Phenol-d5 (Surr)	*32*		*20 - 100*	*03/28/14 17:35*	*03/31/14 20:28*	*1*
Terphenyl-d14 (Surr)	*104*		*44 - 132*	*03/28/14 17:35*	*03/31/14 20:28*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<560		1600	560	ug/Kg		03/27/14 19:03	03/28/14 15:27	100
PCB-1221	<700		1600	700	ug/Kg		03/27/14 19:03	03/28/14 15:27	100
PCB-1232	<700		1600	700	ug/Kg		03/27/14 19:03	03/28/14 15:27	100
PCB-1242	**20000**		1600	520	ug/Kg		03/27/14 19:03	03/28/14 15:27	100
PCB-1248	<630		1600	630	ug/Kg		03/27/14 19:03	03/28/14 15:27	100
PCB-1254	<340		1600	340	ug/Kg		03/27/14 19:03	03/28/14 15:27	100
PCB-1260	<780		1600	780	ug/Kg		03/27/14 19:03	03/28/14 15:27	100

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - Concrete Repair

TestAmerica Job ID: 500-73885-1

Client Sample ID: Quality Soil
Date Collected: 03/25/14 08:30
Date Received: 03/26/14 09:50

Lab Sample ID: 500-73885-4
Matrix: Soil

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Polychlorinated biphenyls, Total	**20000**		1600	310	ug/Kg		03/27/14 19:03	03/28/14 15:27	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*D*	*50 - 116*	*03/27/14 19:03*	*03/28/14 15:27*	*100*
DCB Decachlorobiphenyl	*0*	*D*	*48 - 142*	*03/27/14 19:03*	*03/28/14 15:27*	*100*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		03/28/14 08:15	03/28/14 16:26	1
Barium	**0.51**		0.50	0.050	mg/L		03/28/14 08:15	03/28/14 16:26	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		03/28/14 08:15	03/28/14 16:26	1
Chromium	<0.010		0.025	0.010	mg/L		03/28/14 08:15	03/28/14 16:26	1
Copper	<0.010		0.025	0.010	mg/L		03/28/14 08:15	03/28/14 16:26	1
Lead	<0.0075		0.050	0.0075	mg/L		03/28/14 08:15	03/28/14 16:26	1
Nickel	<0.010		0.025	0.010	mg/L		03/28/14 08:15	03/28/14 16:26	1
Selenium	<0.010		0.050	0.010	mg/L		03/28/14 08:15	03/28/14 16:26	1
Silver	<0.010		0.025	0.010	mg/L		03/28/14 08:15	03/28/14 16:26	1
Zinc	**0.031**	**J**	0.10	0.020	mg/L		03/28/14 08:15	03/28/14 16:26	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000020		0.00020	0.000020	mg/L		03/28/14 14:57	03/31/14 09:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>176**		40.0	40.0	Degrees F			03/27/14 16:37	1
Cyanide, Total	**0.17**	**J**	0.50	0.16	mg/Kg		03/27/14 09:48	03/27/14 15:51	1
Sulfide	**7.4**	**J**	9.7	4.6	mg/Kg		03/31/14 08:45	03/31/14 10:06	1
pH	**9.51**		0.200	0.200	SU			04/01/14 14:33	1
Paint Filter	**pass**				mL/100g			03/27/14 22:55	1
Specific Gravity	**1.92**				NONE			03/28/14 22:06	1

TestAmerica Laboratories, Inc.
Attention: Sandie Fredrick
2417 Bond St
University Park,IL 60484

Date Received: 03/27/2014
Date Reported: 03/31/14 12:27
Client Project: Soil/Waste
Client Project ID: 50009145
PO# 2561509
Project #: 50009145

Certificate of Analysis

This analytical test report shall not be reproduced, except in full, without written permission from SF Analytical Laboratories.
All quality control samples and checks were within acceptance limits unless otherwise indicated. Test results pertain only to those items tested. All samples were in good condition when received by the laboratory unless otherwise noted. All LOD/LOQs are adjusted to reflect dilutions.

DNR #	Analyte	Result Wet Wt.	LOD Wet Wt.	Result Dry Wt.	LOD Dry Wt.	Units	Dilution Factor	Date Prepared	Date Analyzed	Method	Notes
SXC0934-01	**Quality 1 (500-73885-1)**					**Date Collected: 03/24/2014**					
	Preparation: SW-846 5050					Prepared By: HTM		Analyzed By:	HTM		
	Chlorine as Cl	0.019	0.005	0.019	0.005	% Wt.	5	3/28/14	03/28/14	D808	
	Solids		97.33			% Wt.		Analyzed By: 3/27/14	HTM 03/28/14	SM2540G 20th Ed.	
SXC0934-02	**Quality 2 (500-73885-2)**					**Date Collected: 03/24/2014**					
	Preparation: SW-846 5050					Prepared By: HTM		Analyzed By:	HTM		
	Chlorine as Cl	0.017	0.005	0.018	0.005	% Wt.	5	3/28/14	03/28/14	D808	
	Solids		96.20			% Wt.		Analyzed By: 3/27/14	HTM 03/28/14	SM2540G 20th Ed.	
SXC0934-03	**Quality 3 (500-73885-3)**					**Date Collected: 03/24/2014**					
	Preparation: SW-846 5050					Prepared By: HTM		Analyzed By:	HTM		
	Chlorine as Cl	0.023	0.005	0.024	0.005	% Wt.	5	3/28/14	03/28/14	D808	
	Solids		96.81			% Wt.		Analyzed By: 3/27/14	HTM 03/28/14	SM2540G 20th Ed.	
SXC0934-04	**Quality Soil (500-73885-4)**					**Date Collected: 03/25/2014**					
	Preparation: SW-846 5050					Prepared By: HTM		Analyzed By:	HTM		
	Chlorine as Cl	0.010	0.002	0.011	0.002	% Wt.	1	3/28/14	03/28/14	D808	
	Solids		84.03			% Wt.		Analyzed By: 3/27/14	HTM 03/28/14	SM2540G 20th Ed.	

This report was prepared and printed by:

Heather Martel for Gary Geipel, Specialty and Investigative Manager

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FDA Registered Laboratory #2134640 • USDA Soil Permit #S-76521

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.

Metals

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.

General Chemistry

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.

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
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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)

GC/MS VOA

Leach Batch: 229217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-1	Quality 1	TCLP	Solid	1311	
500-73885-2	Quality 2	TCLP	Solid	1311	
500-73885-3	Quality 3	TCLP	Solid	1311	
500-73885-4	Quality Soil	TCLP	Soil	1311	
LB 500-229217/1-A	Method Blank	TCLP	Solid	1311	

Analysis Batch: 229279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-1	Quality 1	TCLP	Solid	8260B	229217
500-73885-2	Quality 2	TCLP	Solid	8260B	229217
500-73885-3	Quality 3	TCLP	Solid	8260B	229217
500-73885-4	Quality Soil	TCLP	Soil	8260B	229217
LB 500-229217/1-A	Method Blank	TCLP	Solid	8260B	229217
LCS 500-229279/4	Lab Control Sample	Total/NA	Solid	8260B	
MB 500-229279/6	Method Blank	Total/NA	Solid	8260B	

GC/MS Semi VOA

Leach Batch: 228994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-4	Quality Soil	TCLP	Soil	1311	
LB 500-228994/1-E	Method Blank	TCLP	Solid	1311	

Leach Batch: 228998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-1	Quality 1	TCLP	Solid	1311	
500-73885-2	Quality 2	TCLP	Solid	1311	
500-73885-3 - DL	Quality 3	TCLP	Solid	1311	
500-73885-3	Quality 3	TCLP	Solid	1311	
LB2 500-228998/1-E	Method Blank	TCLP	Solid	1311	

Prep Batch: 229247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-1	Quality 1	TCLP	Solid	3510C	228998
500-73885-2	Quality 2	TCLP	Solid	3510C	228998
500-73885-3 - DL	Quality 3	TCLP	Solid	3510C	228998
500-73885-3	Quality 3	TCLP	Solid	3510C	228998
500-73885-4	Quality Soil	TCLP	Soil	3510C	228994
LB 500-228994/1-E	Method Blank	TCLP	Solid	3510C	228994
LB2 500-228998/1-E	Method Blank	TCLP	Solid	3510C	228998
LCS 500-229247/2-A	Lab Control Sample	Total/NA	Solid	3510C	
MB 500-229247/1-A	Method Blank	Total/NA	Solid	3510C	

Analysis Batch: 229381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-1	Quality 1	TCLP	Solid	8270D	229247
500-73885-2	Quality 2	TCLP	Solid	8270D	229247
500-73885-4	Quality Soil	TCLP	Soil	8270D	229247
LB 500-228994/1-E	Method Blank	TCLP	Solid	8270D	229247
LB2 500-228998/1-E	Method Blank	TCLP	Solid	8270D	229247

GC/MS Semi VOA (Continued)

Analysis Batch: 229381 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-229247/2-A	Lab Control Sample	Total/NA	Solid	8270D	229247
MB 500-229247/1-A	Method Blank	Total/NA	Solid	8270D	229247

Analysis Batch: 229541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-3 - DL	Quality 3	TCLP	Solid	8270D	229247
500-73885-3	Quality 3	TCLP	Solid	8270D	229247

GC Semi VOA

Prep Batch: 229086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-1	Quality 1	Total/NA	Solid	3541	
500-73885-2	Quality 2	Total/NA	Solid	3541	
500-73885-3	Quality 3	Total/NA	Solid	3541	
500-73885-4	Quality Soil	Total/NA	Soil	3541	
LCS 500-229086/3-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-229086/1-A	Method Blank	Total/NA	Solid	3541	

Analysis Batch: 229112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-1	Quality 1	Total/NA	Solid	8082	229086
500-73885-2	Quality 2	Total/NA	Solid	8082	229086
500-73885-3	Quality 3	Total/NA	Solid	8082	229086
500-73885-4	Quality Soil	Total/NA	Soil	8082	229086
LCS 500-229086/3-A	Lab Control Sample	Total/NA	Solid	8082	229086
MB 500-229086/1-A	Method Blank	Total/NA	Solid	8082	229086

Metals

Leach Batch: 228994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-4	Quality Soil	TCLP	Soil	1311	
LB 500-228994/1-B	Method Blank	TCLP	Solid	1311	
LB 500-228994/1-D	Method Blank	TCLP	Solid	1311	

Leach Batch: 228998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-1	Quality 1	TCLP	Solid	1311	
500-73885-2	Quality 2	TCLP	Solid	1311	
500-73885-3	Quality 3	TCLP	Solid	1311	
LB2 500-228998/1-B	Method Blank	TCLP	Solid	1311	
LB2 500-228998/1-D	Method Blank	TCLP	Solid	1311	

Prep Batch: 229148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-1	Quality 1	TCLP	Solid	3010A	228998
500-73885-2	Quality 2	TCLP	Solid	3010A	228998
500-73885-3	Quality 3	TCLP	Solid	3010A	228998
500-73885-4	Quality Soil	TCLP	Soil	3010A	228994

Metals (Continued)

Prep Batch: 229148 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-228994/1-B	Method Blank	TCLP	Solid	3010A	228994
LB2 500-228998/1-B	Method Blank	TCLP	Solid	3010A	228998
LCS 500-229148/4-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 229221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-1	Quality 1	TCLP	Solid	7470A	228998
500-73885-2	Quality 2	TCLP	Solid	7470A	228998
500-73885-3	Quality 3	TCLP	Solid	7470A	228998
500-73885-4	Quality Soil	TCLP	Soil	7470A	228994
LB 500-228994/1-D	Method Blank	TCLP	Solid	7470A	228994
LB2 500-228998/1-D	Method Blank	TCLP	Solid	7470A	228998
LCS 500-229221/13-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 500-229221/12-A	Method Blank	Total/NA	Solid	7470A	

Analysis Batch: 229343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-1	Quality 1	TCLP	Solid	6010B	229148
500-73885-2	Quality 2	TCLP	Solid	6010B	229148
500-73885-3	Quality 3	TCLP	Solid	6010B	229148
500-73885-4	Quality Soil	TCLP	Soil	6010B	229148
LB 500-228994/1-B	Method Blank	TCLP	Solid	6010B	229148
LB2 500-228998/1-B	Method Blank	TCLP	Solid	6010B	229148
LCS 500-229148/4-A	Lab Control Sample	Total/NA	Solid	6010B	229148

Analysis Batch: 229457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-1	Quality 1	TCLP	Solid	7470A	229221
500-73885-2	Quality 2	TCLP	Solid	7470A	229221
500-73885-3	Quality 3	TCLP	Solid	7470A	229221
500-73885-4	Quality Soil	TCLP	Soil	7470A	229221
LB 500-228994/1-D	Method Blank	TCLP	Solid	7470A	229221
LB2 500-228998/1-D	Method Blank	TCLP	Solid	7470A	229221
LCS 500-229221/13-A	Lab Control Sample	Total/NA	Solid	7470A	229221
MB 500-229221/12-A	Method Blank	Total/NA	Solid	7470A	229221

General Chemistry

Analysis Batch: 228828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-1	Quality 1	Total/NA	Solid	Moisture	
500-73885-2	Quality 2	Total/NA	Solid	Moisture	
500-73885-3	Quality 3	Total/NA	Solid	Moisture	
500-73885-4	Quality Soil	Total/NA	Soil	Moisture	

Analysis Batch: 228902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-1	Quality 1	Total/NA	Solid	1010	
500-73885-2	Quality 2	Total/NA	Solid	1010	

General Chemistry (Continued)

Prep Batch: 228949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-1	Quality 1	Total/NA	Solid	9010B	
500-73885-2	Quality 2	Total/NA	Solid	9010B	
500-73885-3	Quality 3	Total/NA	Solid	9010B	
500-73885-4	Quality Soil	Total/NA	Soil	9010B	
LCS 500-228949/7-A	Lab Control Sample	Total/NA	Solid	9010B	
MB 500-228949/6-A	Method Blank	Total/NA	Solid	9010B	

Analysis Batch: 229062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-1	Quality 1	Total/NA	Solid	9014	228949
500-73885-2	Quality 2	Total/NA	Solid	9014	228949
500-73885-3	Quality 3	Total/NA	Solid	9014	228949
500-73885-4	Quality Soil	Total/NA	Soil	9014	228949
LCS 500-228949/7-A	Lab Control Sample	Total/NA	Solid	9014	228949
MB 500-228949/6-A	Method Blank	Total/NA	Solid	9014	228949

Analysis Batch: 229095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-3	Quality 3	Total/NA	Solid	1010	
500-73885-4	Quality Soil	Total/NA	Soil	1010	

Analysis Batch: 229097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-1	Quality 1	Total/NA	Solid	9095A	
500-73885-2	Quality 2	Total/NA	Solid	9095A	
500-73885-3	Quality 3	Total/NA	Solid	9095A	
500-73885-4	Quality Soil	Total/NA	Soil	9095A	

Analysis Batch: 229262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-1	Quality 1	Total/NA	Solid	SM 2710F	
500-73885-2	Quality 2	Total/NA	Solid	SM 2710F	
500-73885-3	Quality 3	Total/NA	Solid	SM 2710F	
500-73885-4	Quality Soil	Total/NA	Soil	SM 2710F	

Prep Batch: 229333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-1	Quality 1	Total/NA	Solid	9030B	
500-73885-2	Quality 2	Total/NA	Solid	9030B	
500-73885-3	Quality 3	Total/NA	Solid	9030B	
500-73885-4	Quality Soil	Total/NA	Soil	9030B	
500-73885-4 MS	Quality Soil	Total/NA	Soil	9030B	
500-73885-4 MSD	Quality Soil	Total/NA	Soil	9030B	
LCS 500-229333/2-A	Lab Control Sample	Total/NA	Solid	9030B	
MB 500-229333/1-A	Method Blank	Total/NA	Solid	9030B	

Analysis Batch: 229382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-1	Quality 1	Total/NA	Solid	9034	229333
500-73885-2	Quality 2	Total/NA	Solid	9034	229333
500-73885-3	Quality 3	Total/NA	Solid	9034	229333

General Chemistry (Continued)

Analysis Batch: 229382 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-4	Quality Soil	Total/NA	Soil	9034	229333
500-73885-4 MS	Quality Soil	Total/NA	Soil	9034	229333
500-73885-4 MSD	Quality Soil	Total/NA	Soil	9034	229333
LCS 500-229333/2-A	Lab Control Sample	Total/NA	Solid	9034	229333
MB 500-229333/1-A	Method Blank	Total/NA	Solid	9034	229333

Analysis Batch: 229652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-1	Quality 1	Total/NA	Solid	9045C	
500-73885-1 DU	Quality 1	Total/NA	Solid	9045C	
500-73885-2	Quality 2	Total/NA	Solid	9045C	
500-73885-3	Quality 3	Total/NA	Solid	9045C	
500-73885-4	Quality Soil	Total/NA	Soil	9045C	

Surrogate Summary

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - Concrete Repair

TestAmerica Job ID: 500-73885-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Soil — **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(75-125)	(75-120)	(75-120)	(75-120)
500-73885-4	Quality Soil	104	104	78	99

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(75-125)	(75-120)	(75-120)	(75-120)
LCS 500-229279/4	Lab Control Sample	104	102	81	100
MB 500-229279/6	Method Blank	103	104	82	100

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(75-125)	(75-120)	(75-120)	(75-120)
500-73885-1	Quality 1	100	104	82	97
500-73885-2	Quality 2	100	103	79	98
500-73885-3	Quality 3	101	105	82	92
LB 500-229217/1-A	Method Blank	99	106	80	102

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Soil — **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(50-129)	(48-110)	(20-100)	(41-110)	(20-100)	(44-132)
500-73885-4	Quality Soil	91	79	47	69	32	104

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = Terphenyl-d14 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(50-129)	(48-110)	(20-100)	(41-110)	(20-100)	(44-132)
LCS 500-229247/2-A	Lab Control Sample	89	73	45	78	32	101
MB 500-229247/1-A	Method Blank	76	70	43	70	30	98

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = Terphenyl-d14 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(50-129)	(48-110)	(20-100)	(41-110)	(20-100)	(44-132)
500-73885-1	Quality 1	94	77	42	65	30	97
500-73885-2	Quality 2	92	76	45	68	32	101
500-73885-3 - DL	Quality 3	106	84	45	74	32	111
500-73885-3	Quality 3	108	74	41	66	31	97
LB 500-228994/1-E	Method Blank	85	78	48	71	34	100
LB2 500-228998/1-E	Method Blank	74	66	36	58	26	94

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = Terphenyl-d14 (Surr)

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

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

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX2	DCB2
Lab Sample ID	Client Sample ID	(50-116)	(48-142)
500-73885-4	Quality Soil	0 D	0 D

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Surrogate Summary

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - Concrete Repair

TestAmerica Job ID: 500-73885-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

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

		Percent Surrogate Recovery (Acceptance Limits)									
		TCX2	DCB2								
Lab Sample ID	Client Sample ID	(50-116)	(48-142)								
500-73885-1	Quality 1	0 D	0 D								
500-73885-2	Quality 2	0 D	0 D								
500-73885-3	Quality 3	0 D	0 D								
LCS 500-229086/3-A	Lab Control Sample	66	94								
MB 500-229086/1-A	Method Blank	93	99								

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-229279/6
Matrix: Solid
Analysis Batch: 229279

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00050		0.0010	0.00050	mg/L			03/30/14 11:13	1
Carbon tetrachloride	<0.00050		0.0010	0.00050	mg/L			03/30/14 11:13	1
Chlorobenzene	<0.00050		0.0010	0.00050	mg/L			03/30/14 11:13	1
Chloroform	<0.00050		0.0010	0.00050	mg/L			03/30/14 11:13	1
1,2-Dichloroethane	<0.00050		0.0010	0.00050	mg/L			03/30/14 11:13	1
1,1-Dichloroethene	<0.00050		0.0010	0.00050	mg/L			03/30/14 11:13	1
Methyl Ethyl Ketone	<0.0025		0.0050	0.0025	mg/L			03/30/14 11:13	1
Tetrachloroethene	<0.00050		0.0010	0.00050	mg/L			03/30/14 11:13	1
Trichloroethene	<0.00050		0.0010	0.00050	mg/L			03/30/14 11:13	1
Vinyl chloride	<0.00050		0.0010	0.00050	mg/L			03/30/14 11:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 125*		*03/30/14 11:13*	*1*
Toluene-d8 (Surr)	*104*		*75 - 120*		*03/30/14 11:13*	*1*
4-Bromofluorobenzene (Surr)	*82*		*75 - 120*		*03/30/14 11:13*	*1*
Dibromofluoromethane	*100*		*75 - 120*		*03/30/14 11:13*	*1*

Lab Sample ID: LCS 500-229279/4
Matrix: Solid
Analysis Batch: 229279

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.0519		mg/L		104	70 - 120
Carbon tetrachloride	0.0500	0.0572		mg/L		114	70 - 125
Chlorobenzene	0.0500	0.0502		mg/L		100	70 - 120
Chloroform	0.0500	0.0502		mg/L		100	70 - 120
1,2-Dichloroethane	0.0500	0.0516		mg/L		103	69 - 120
1,1-Dichloroethene	0.0500	0.0458		mg/L		92	58 - 122
Methyl Ethyl Ketone	0.0500	0.0471		mg/L		94	54 - 138
Tetrachloroethene	0.0500	0.0521		mg/L		104	70 - 123
Trichloroethene	0.0500	0.0505		mg/L		101	70 - 120
Vinyl chloride	0.0500	0.0555		mg/L		111	62 - 138

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 125*
Toluene-d8 (Surr)	*102*		*75 - 120*
4-Bromofluorobenzene (Surr)	*81*		*75 - 120*
Dibromofluoromethane	*100*		*75 - 120*

Lab Sample ID: LB 500-229217/1-A
Matrix: Solid
Analysis Batch: 229279

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.010		0.020	0.010	mg/L			03/30/14 11:38	20
Carbon tetrachloride	<0.010		0.020	0.010	mg/L			03/30/14 11:38	20
Chlorobenzene	<0.010		0.020	0.010	mg/L			03/30/14 11:38	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB 500-229217/1-A
Matrix: Solid
Analysis Batch: 229279

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<0.010		0.020	0.010	mg/L			03/30/14 11:38	20
1,2-Dichloroethane	<0.010		0.020	0.010	mg/L			03/30/14 11:38	20
1,1-Dichloroethene	<0.010		0.020	0.010	mg/L			03/30/14 11:38	20
Methyl Ethyl Ketone	<0.050		0.10	0.050	mg/L			03/30/14 11:38	20
Tetrachloroethene	<0.010		0.020	0.010	mg/L			03/30/14 11:38	20
Trichloroethene	<0.010		0.020	0.010	mg/L			03/30/14 11:38	20
Vinyl chloride	<0.010		0.020	0.010	mg/L			03/30/14 11:38	20

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 125*		*03/30/14 11:38*	*20*
Toluene-d8 (Surr)	*106*		*75 - 120*		*03/30/14 11:38*	*20*
4-Bromofluorobenzene (Surr)	*80*		*75 - 120*		*03/30/14 11:38*	*20*
Dibromofluoromethane	*102*		*75 - 120*		*03/30/14 11:38*	*20*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-229247/1-A
Matrix: Solid
Analysis Batch: 229381

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 229247

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0020		0.0020	0.0020	mg/L		03/28/14 17:35	03/31/14 11:20	1
2,4,5-Trichlorophenol	<0.010		0.010	0.010	mg/L		03/28/14 17:35	03/31/14 11:20	1
2,4,6-Trichlorophenol	<0.0050		0.0050	0.0050	mg/L		03/28/14 17:35	03/31/14 11:20	1
2,4-Dinitrotoluene	<0.0010		0.0010	0.0010	mg/L		03/28/14 17:35	03/31/14 11:20	1
2-Methylphenol	<0.0020		0.0020	0.0020	mg/L		03/28/14 17:35	03/31/14 11:20	1
3 & 4 Methylphenol	<0.0020		0.0020	0.0020	mg/L		03/28/14 17:35	03/31/14 11:20	1
Hexachlorobenzene	<0.00050		0.00050	0.00050	mg/L		03/28/14 17:35	03/31/14 11:20	1
Hexachlorobutadiene	<0.0050		0.0050	0.0050	mg/L		03/28/14 17:35	03/31/14 11:20	1
Hexachloroethane	<0.0050		0.0050	0.0050	mg/L		03/28/14 17:35	03/31/14 11:20	1
Nitrobenzene	<0.0010		0.0010	0.0010	mg/L		03/28/14 17:35	03/31/14 11:20	1
Pentachlorophenol	<0.020		0.020	0.020	mg/L		03/28/14 17:35	03/31/14 11:20	1
Phenol	<0.0050		0.0050	0.0050	mg/L		03/28/14 17:35	03/31/14 11:20	1
Pyridine	<0.020		0.020	0.020	mg/L		03/28/14 17:35	03/31/14 11:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*76*		*50 - 129*	*03/28/14 17:35*	*03/31/14 11:20*	*1*
2-Fluorobiphenyl	*70*		*48 - 110*	*03/28/14 17:35*	*03/31/14 11:20*	*1*
2-Fluorophenol (Surr)	*43*		*20 - 100*	*03/28/14 17:35*	*03/31/14 11:20*	*1*
Nitrobenzene-d5 (Surr)	*70*		*41 - 110*	*03/28/14 17:35*	*03/31/14 11:20*	*1*
Phenol-d5 (Surr)	*30*		*20 - 100*	*03/28/14 17:35*	*03/31/14 11:20*	*1*
Terphenyl-d14 (Surr)	*98*		*44 - 132*	*03/28/14 17:35*	*03/31/14 11:20*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-229247/2-A
Matrix: Solid
Analysis Batch: 229381

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 229247

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	0.0400	0.0288		mg/L		72	33 - 100
2,4,5-Trichlorophenol	0.0400	0.0373		mg/L		93	63 - 110
2,4,6-Trichlorophenol	0.0400	0.0354		mg/L		89	63 - 110
2,4-Dinitrotoluene	0.0400	0.0384		mg/L		96	62 - 119
2-Methylphenol	0.0400	0.0298		mg/L		75	42 - 100
3 & 4 Methylphenol	0.0400	0.0277		mg/L		69	38 - 110
Hexachlorobenzene	0.0400	0.0355		mg/L		89	60 - 110
Hexachlorobutadiene	0.0400	0.0264		mg/L		66	28 - 110
Hexachloroethane	0.0400	0.0262		mg/L		66	29 - 100
Nitrobenzene	0.0400	0.0316		mg/L		79	52 - 110
Pentachlorophenol	0.0800	0.0786		mg/L		98	42 - 127
Phenol	0.0400	0.0151		mg/L		38	20 - 100
Pyridine	0.0400	<0.020		mg/L		39	10 - 100

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*89*		*50 - 129*
2-Fluorobiphenyl	*73*		*48 - 110*
2-Fluorophenol (Surr)	*45*		*20 - 100*
Nitrobenzene-d5 (Surr)	*78*		*41 - 110*
Phenol-d5 (Surr)	*32*		*20 - 100*
Terphenyl-d14 (Surr)	*101*		*44 - 132*

Lab Sample ID: LB 500-228994/1-E
Matrix: Solid
Analysis Batch: 229381

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 229247

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.020		0.020	0.020	mg/L		03/28/14 17:35	03/31/14 13:19	1
2,4,5-Trichlorophenol	<0.10		0.10	0.10	mg/L		03/28/14 17:35	03/31/14 13:19	1
2,4,6-Trichlorophenol	<0.050		0.050	0.050	mg/L		03/28/14 17:35	03/31/14 13:19	1
2,4-Dinitrotoluene	<0.010		0.010	0.010	mg/L		03/28/14 17:35	03/31/14 13:19	1
2-Methylphenol	<0.020		0.020	0.020	mg/L		03/28/14 17:35	03/31/14 13:19	1
3 & 4 Methylphenol	<0.020		0.020	0.020	mg/L		03/28/14 17:35	03/31/14 13:19	1
Hexachlorobenzene	<0.0050		0.0050	0.0050	mg/L		03/28/14 17:35	03/31/14 13:19	1
Hexachlorobutadiene	<0.050		0.050	0.050	mg/L		03/28/14 17:35	03/31/14 13:19	1
Hexachloroethane	<0.050		0.050	0.050	mg/L		03/28/14 17:35	03/31/14 13:19	1
Nitrobenzene	<0.010		0.010	0.010	mg/L		03/28/14 17:35	03/31/14 13:19	1
Pentachlorophenol	<0.20		0.20	0.20	mg/L		03/28/14 17:35	03/31/14 13:19	1
Phenol	<0.050		0.050	0.050	mg/L		03/28/14 17:35	03/31/14 13:19	1
Pyridine	<0.20		0.20	0.20	mg/L		03/28/14 17:35	03/31/14 13:19	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*85*		*50 - 129*	*03/28/14 17:35*	*03/31/14 13:19*	*1*
2-Fluorobiphenyl	*78*		*48 - 110*	*03/28/14 17:35*	*03/31/14 13:19*	*1*
2-Fluorophenol (Surr)	*48*		*20 - 100*	*03/28/14 17:35*	*03/31/14 13:19*	*1*
Nitrobenzene-d5 (Surr)	*71*		*41 - 110*	*03/28/14 17:35*	*03/31/14 13:19*	*1*
Phenol-d5 (Surr)	*34*		*20 - 100*	*03/28/14 17:35*	*03/31/14 13:19*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB 500-228994/1-E
Matrix: Solid
Analysis Batch: 229381

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 229247

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	*100*		*44 - 132*	*03/28/14 17:35*	*03/31/14 13:19*	*1*

Lab Sample ID: LB2 500-228998/1-E
Matrix: Solid
Analysis Batch: 229381

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 229247

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.020		0.020	0.020	mg/L		03/28/14 17:35	03/31/14 13:43	1
2,4,5-Trichlorophenol	<0.10		0.10	0.10	mg/L		03/28/14 17:35	03/31/14 13:43	1
2,4,6-Trichlorophenol	<0.050		0.050	0.050	mg/L		03/28/14 17:35	03/31/14 13:43	1
2,4-Dinitrotoluene	<0.010		0.010	0.010	mg/L		03/28/14 17:35	03/31/14 13:43	1
2-Methylphenol	<0.020		0.020	0.020	mg/L		03/28/14 17:35	03/31/14 13:43	1
3 & 4 Methylphenol	<0.020		0.020	0.020	mg/L		03/28/14 17:35	03/31/14 13:43	1
Hexachlorobenzene	<0.0050		0.0050	0.0050	mg/L		03/28/14 17:35	03/31/14 13:43	1
Hexachlorobutadiene	<0.050		0.050	0.050	mg/L		03/28/14 17:35	03/31/14 13:43	1
Hexachloroethane	<0.050		0.050	0.050	mg/L		03/28/14 17:35	03/31/14 13:43	1
Nitrobenzene	<0.010		0.010	0.010	mg/L		03/28/14 17:35	03/31/14 13:43	1
Pentachlorophenol	<0.20		0.20	0.20	mg/L		03/28/14 17:35	03/31/14 13:43	1
Phenol	<0.050		0.050	0.050	mg/L		03/28/14 17:35	03/31/14 13:43	1
Pyridine	<0.20		0.20	0.20	mg/L		03/28/14 17:35	03/31/14 13:43	1

Surrogate	LB2 %Recovery	LB2 Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	*74*		*50 - 129*	*03/28/14 17:35*	*03/31/14 13:43*	*1*
2-Fluorobiphenyl	*66*		*48 - 110*	*03/28/14 17:35*	*03/31/14 13:43*	*1*
2-Fluorophenol (Surr)	*36*		*20 - 100*	*03/28/14 17:35*	*03/31/14 13:43*	*1*
Nitrobenzene-d5 (Surr)	*58*		*41 - 110*	*03/28/14 17:35*	*03/31/14 13:43*	*1*
Phenol-d5 (Surr)	*26*		*20 - 100*	*03/28/14 17:35*	*03/31/14 13:43*	*1*
Terphenyl-d14 (Surr)	*94*		*44 - 132*	*03/28/14 17:35*	*03/31/14 13:43*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-229086/1-A
Matrix: Solid
Analysis Batch: 229112

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 229086

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.9		17	5.9	ug/Kg		03/27/14 19:03	03/28/14 08:23	1
PCB-1221	<7.3		17	7.3	ug/Kg		03/27/14 19:03	03/28/14 08:23	1
PCB-1232	<7.3		17	7.3	ug/Kg		03/27/14 19:03	03/28/14 08:23	1
PCB-1242	<5.5		17	5.5	ug/Kg		03/27/14 19:03	03/28/14 08:23	1
PCB-1248	<6.6		17	6.6	ug/Kg		03/27/14 19:03	03/28/14 08:23	1
PCB-1254	<3.6		17	3.6	ug/Kg		03/27/14 19:03	03/28/14 08:23	1
PCB-1260	<8.2		17	8.2	ug/Kg		03/27/14 19:03	03/28/14 08:23	1
Polychlorinated biphenyls, Total	<3.2		17	3.2	ug/Kg		03/27/14 19:03	03/28/14 08:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*93*		*50 - 116*	*03/27/14 19:03*	*03/28/14 08:23*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 500-229086/1-A
Matrix: Solid
Analysis Batch: 229112

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 229086

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	99		48 - 142	03/27/14 19:03	03/28/14 08:23	1

Lab Sample ID: LCS 500-229086/3-A
Matrix: Solid
Analysis Batch: 229112

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 229086

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	167	176		ug/Kg		106	59 - 110
PCB-1260	167	195		ug/Kg		117	69 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	66		50 - 116
DCB Decachlorobiphenyl	94		48 - 142

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-229148/4-A
Matrix: Solid
Analysis Batch: 229343

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 229148

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.0970		mg/L		97	80 - 120
Barium	0.500	0.477	J	mg/L		95	80 - 120
Cadmium	0.0500	0.0491		mg/L		98	80 - 120
Chromium	0.200	0.204		mg/L		102	80 - 120
Copper	0.250	0.251		mg/L		101	80 - 120
Lead	0.100	0.102		mg/L		102	80 - 120
Nickel	0.500	0.506		mg/L		101	80 - 120
Selenium	0.100	0.0879		mg/L		88	80 - 120
Silver	0.0500	0.0487		mg/L		97	80 - 120
Zinc	0.500	0.511		mg/L		102	80 - 120

Lab Sample ID: LB 500-228994/1-B
Matrix: Solid
Analysis Batch: 229343

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 229148

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		03/28/14 08:15	03/28/14 15:22	1
Barium	<0.050		0.50	0.050	mg/L		03/28/14 08:15	03/28/14 15:22	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		03/28/14 08:15	03/28/14 15:22	1
Chromium	<0.010		0.025	0.010	mg/L		03/28/14 08:15	03/28/14 15:22	1
Copper	<0.010		0.025	0.010	mg/L		03/28/14 08:15	03/28/14 15:22	1
Lead	<0.0075		0.050	0.0075	mg/L		03/28/14 08:15	03/28/14 15:22	1
Nickel	<0.010		0.025	0.010	mg/L		03/28/14 08:15	03/28/14 15:22	1
Selenium	<0.010		0.050	0.010	mg/L		03/28/14 08:15	03/28/14 15:22	1
Silver	<0.010		0.025	0.010	mg/L		03/28/14 08:15	03/28/14 15:22	1
Zinc	<0.020		0.10	0.020	mg/L		03/28/14 08:15	03/28/14 15:22	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB2 500-228998/1-B — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 229343 — **Prep Batch: 229148**

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		03/28/14 08:15	03/28/14 15:28	1
Barium	<0.050		0.50	0.050	mg/L		03/28/14 08:15	03/28/14 15:28	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		03/28/14 08:15	03/28/14 15:28	1
Chromium	<0.010		0.025	0.010	mg/L		03/28/14 08:15	03/28/14 15:28	1
Copper	<0.010		0.025	0.010	mg/L		03/28/14 08:15	03/28/14 15:28	1
Lead	<0.0075		0.050	0.0075	mg/L		03/28/14 08:15	03/28/14 15:28	1
Nickel	<0.010		0.025	0.010	mg/L		03/28/14 08:15	03/28/14 15:28	1
Selenium	<0.010		0.050	0.010	mg/L		03/28/14 08:15	03/28/14 15:28	1
Silver	<0.010		0.025	0.010	mg/L		03/28/14 08:15	03/28/14 15:28	1
Zinc	<0.020		0.10	0.020	mg/L		03/28/14 08:15	03/28/14 15:28	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-229221/12-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 229457 — **Prep Batch: 229221**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000020		0.00020	0.000020	mg/L		03/28/14 14:57	03/31/14 09:11	1

Lab Sample ID: LCS 500-229221/13-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 229457 — **Prep Batch: 229221**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00224		mg/L		112	80 - 120

Lab Sample ID: LB 500-228994/1-D — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 229457 — **Prep Batch: 229221**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000020		0.00020	0.000020	mg/L		03/28/14 14:57	03/31/14 09:21	1

Lab Sample ID: LB2 500-228998/1-D — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 229457 — **Prep Batch: 229221**

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000020		0.00020	0.000020	mg/L		03/28/14 14:57	03/31/14 09:23	1

Method: 9014 - Cyanide

Lab Sample ID: MB 500-228949/6-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 229062 — **Prep Batch: 228949**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.17		0.50	0.17	mg/Kg		03/27/14 09:48	03/27/14 15:47	1

Lab Sample ID: LCS 500-228949/7-A
Matrix: Solid
Analysis Batch: 229062

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 228949

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	5.00	5.17		mg/Kg		103	80 - 120

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 500-229333/1-A
Matrix: Solid
Analysis Batch: 229382

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 229333

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<4.8		10	4.8	mg/Kg		03/31/14 07:45	03/31/14 09:50	1

Lab Sample ID: LCS 500-229333/2-A
Matrix: Solid
Analysis Batch: 229382

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 229333

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	185	183		mg/Kg		99	80 - 120

Lab Sample ID: 500-73885-4 MS
Matrix: Soil
Analysis Batch: 229382

Client Sample ID: Quality Soil
Prep Type: Total/NA
Prep Batch: 229333

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	7.4	J	172	155		mg/Kg		86	75 - 125

Lab Sample ID: 500-73885-4 MSD
Matrix: Soil
Analysis Batch: 229382

Client Sample ID: Quality Soil
Prep Type: Total/NA
Prep Batch: 229333

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfide	7.4	J	185	168		mg/Kg		87	75 - 125	8	20

Method: 9045C - pH

Lab Sample ID: 500-73885-1 DU
Matrix: Solid
Analysis Batch: 229652

Client Sample ID: Quality 1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	12.5		12.46		SU		0.08	

Lab Chronicle

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - Concrete Repair

TestAmerica Job ID: 500-73885-1

Client Sample ID: Quality 1

Lab Sample ID: 500-73885-1

Date Collected: 03/24/14 12:30

Matrix: Solid

Date Received: 03/26/14 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			229217	03/28/14 14:35	RR1	TAL CHI
TCLP	Analysis	8260B		20	229279	03/30/14 13:41	BDA	TAL CHI
TCLP	Leach	1311			228998	03/27/14 14:00	MJP	TAL CHI
TCLP	Prep	3510C			229247	03/28/14 17:35	JP1	TAL CHI
TCLP	Analysis	8270D		1	229381	03/31/14 19:16	PMF	TAL CHI
Total/NA	Prep	3541			229086	03/27/14 19:03	DEA	TAL CHI
Total/NA	Analysis	8082		1000	229112	03/28/14 15:41	GMO	TAL CHI
TCLP	Leach	1311			228998	03/27/14 14:00	MJP	TAL CHI
TCLP	Prep	3010A			229148	03/28/14 08:15	MJP	TAL CHI
TCLP	Analysis	6010B		1	229343	03/28/14 15:53	LEG	TAL CHI
TCLP	Leach	1311			228998	03/27/14 14:00	MJP	TAL CHI
TCLP	Prep	7470A			229221	03/28/14 14:57	PFK	TAL CHI
TCLP	Analysis	7470A		1	229457	03/31/14 09:25	RLL	TAL CHI
Total/NA	Analysis	1010		1	228902		NLR	TAL CHI
					(Start)	03/26/14 22:02		
					(End)	03/26/14 22:59		
Total/NA	Prep	9010B			228949	03/27/14 09:48	BIS	TAL CHI
Total/NA	Analysis	9014		1	229062		BIS	TAL CHI
					(Start)	03/27/14 15:50		
					(End)	03/27/14 15:51		
Total/NA	Prep	9030B			229333	03/31/14 08:15	JG	TAL CHI
Total/NA	Analysis	9034		1	229382	03/31/14 09:58	JG	TAL CHI
Total/NA	Analysis	9045C		1	229652		JLE	TAL CHI
					(Start)	04/01/14 14:15		
					(End)	04/01/14 14:19		
Total/NA	Analysis	9095A		1	229097		NLR	TAL CHI
					(Start)	03/27/14 22:55		
					(End)	03/27/14 23:00		
Total/NA	Analysis	Moisture		1	228828	03/26/14 15:54	LWN	TAL CHI
Total/NA	Analysis	SM 2710F		1	229262	03/28/14 21:39	SJS	TAL CHI

Client Sample ID: Quality 2

Lab Sample ID: 500-73885-2

Date Collected: 03/24/14 13:00

Matrix: Solid

Date Received: 03/26/14 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			229217	03/28/14 14:35	RR1	TAL CHI
TCLP	Analysis	8260B		20	229279	03/30/14 14:06	BDA	TAL CHI
TCLP	Leach	1311			228998	03/27/14 14:00	MJP	TAL CHI
TCLP	Prep	3510C			229247	03/28/14 17:35	JP1	TAL CHI
TCLP	Analysis	8270D		1	229381	03/31/14 19:40	PMF	TAL CHI
Total/NA	Prep	3541			229086	03/27/14 19:03	DEA	TAL CHI
Total/NA	Analysis	8082		50	229112	03/28/14 15:00	GMO	TAL CHI
TCLP	Leach	1311			228998	03/27/14 14:00	MJP	TAL CHI

Client Sample ID: Quality 2

Lab Sample ID: 500-73885-2

Date Collected: 03/24/14 13:00

Matrix: Solid

Date Received: 03/26/14 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Prep	3010A			229148	03/28/14 08:15	MJP	TAL CHI
TCLP	Analysis	6010B		1	229343	03/28/14 15:59	LEG	TAL CHI
TCLP	Leach	1311			228998	03/27/14 14:00	MJP	TAL CHI
TCLP	Prep	7470A			229221	03/28/14 14:57	PFK	TAL CHI
TCLP	Analysis	7470A		1	229457	03/31/14 09:27	RLL	TAL CHI
Total/NA	Analysis	1010		1	228902		NLR	TAL CHI
					(Start)	03/26/14 23:56		
					(End)	03/27/14 00:53		
Total/NA	Prep	9010B			228949	03/27/14 09:48	BIS	TAL CHI
Total/NA	Analysis	9014		1	229062		BIS	TAL CHI
					(Start)	03/27/14 15:51		
					(End)	03/27/14 15:51		
Total/NA	Prep	9030B			229333	03/31/14 08:25	JG	TAL CHI
Total/NA	Analysis	9034		1	229382	03/31/14 10:01	JG	TAL CHI
Total/NA	Analysis	9045C		1	229652		JLE	TAL CHI
					(Start)	04/01/14 14:24		
					(End)	04/01/14 14:28		
Total/NA	Analysis	9095A		1	229097		NLR	TAL CHI
					(Start)	03/27/14 22:55		
					(End)	03/27/14 23:00		
Total/NA	Analysis	Moisture		1	228828	03/26/14 15:54	LWN	TAL CHI
Total/NA	Analysis	SM 2710F		1	229262	03/28/14 21:48	SJS	TAL CHI

Client Sample ID: Quality 3

Lab Sample ID: 500-73885-3

Date Collected: 03/24/14 13:45

Matrix: Solid

Date Received: 03/26/14 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			229217	03/28/14 14:35	RR1	TAL CHI
TCLP	Analysis	8260B		20	229279	03/30/14 14:31	BDA	TAL CHI
TCLP	Leach	1311	DL		228998	03/27/14 14:00	MJP	TAL CHI
TCLP	Prep	3510C	DL		229247	03/28/14 17:35	JP1	TAL CHI
TCLP	Analysis	8270D	DL	5	229541	04/01/14 12:41	WDS	TAL CHI
TCLP	Leach	1311			228998	03/27/14 14:00	MJP	TAL CHI
TCLP	Prep	3510C			229247	03/28/14 17:35	JP1	TAL CHI
TCLP	Analysis	8270D		1	229541	04/01/14 14:15	WDS	TAL CHI
Total/NA	Prep	3541			229086	03/27/14 19:03	DEA	TAL CHI
Total/NA	Analysis	8082		500	229112	03/28/14 15:14	GMO	TAL CHI
TCLP	Leach	1311			228998	03/27/14 14:00	MJP	TAL CHI
TCLP	Prep	3010A			229148	03/28/14 08:15	MJP	TAL CHI
TCLP	Analysis	6010B		1	229343	03/28/14 16:20	LEG	TAL CHI
TCLP	Leach	1311			228998	03/27/14 14:00	MJP	TAL CHI
TCLP	Prep	7470A			229221	03/28/14 14:57	PFK	TAL CHI
TCLP	Analysis	7470A		1	229457	03/31/14 09:33	RLL	TAL CHI

Client Sample ID: Quality 3

Lab Sample ID: 500-73885-3

Date Collected: 03/24/14 13:45

Matrix: Solid

Date Received: 03/26/14 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	1010		1	229095		NLR	TAL CHI
					(Start)	03/27/14 15:15		
					(End)	03/27/14 16:37		
Total/NA	Prep	9010B			228949	03/27/14 09:48	BIS	TAL CHI
Total/NA	Analysis	9014		1	229062		BIS	TAL CHI
					(Start)	03/27/14 15:51		
					(End)	03/27/14 15:51		
Total/NA	Prep	9030B			229333	03/31/14 08:35	JG	TAL CHI
Total/NA	Analysis	9034		1	229382	03/31/14 10:03	JG	TAL CHI
Total/NA	Analysis	9045C		1	229652		JLE	TAL CHI
					(Start)	04/01/14 14:28		
					(End)	04/01/14 14:33		
Total/NA	Analysis	9095A		1	229097		NLR	TAL CHI
					(Start)	03/27/14 22:55		
					(End)	03/27/14 23:00		
Total/NA	Analysis	Moisture		1	228828	03/26/14 15:54	LWN	TAL CHI
Total/NA	Analysis	SM 2710F		1	229262	03/28/14 21:57	SJS	TAL CHI

Client Sample ID: Quality Soil

Lab Sample ID: 500-73885-4

Date Collected: 03/25/14 08:30

Matrix: Soil

Date Received: 03/26/14 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			229217	03/28/14 14:35	RR1	TAL CHI
TCLP	Analysis	8260B		20	229279	03/30/14 14:55	BDA	TAL CHI
TCLP	Leach	1311			228994	03/27/14 14:00	MJP	TAL CHI
TCLP	Prep	3510C			229247	03/28/14 17:35	JP1	TAL CHI
TCLP	Analysis	8270D		1	229381	03/31/14 20:28	PMF	TAL CHI
Total/NA	Prep	3541			229086	03/27/14 19:03	DEA	TAL CHI
Total/NA	Analysis	8082		100	229112	03/28/14 15:27	GMO	TAL CHI
TCLP	Leach	1311			228994	03/27/14 14:00	MJP	TAL CHI
TCLP	Prep	3010A			229148	03/28/14 08:15	MJP	TAL CHI
TCLP	Analysis	6010B		1	229343	03/28/14 16:26	LEG	TAL CHI
TCLP	Leach	1311			228994	03/27/14 14:00	MJP	TAL CHI
TCLP	Prep	7470A			229221	03/28/14 14:57	PFK	TAL CHI
TCLP	Analysis	7470A		1	229457	03/31/14 09:35	RLL	TAL CHI
Total/NA	Analysis	1010		1	229095		NLR	TAL CHI
					(Start)	03/27/14 16:37		
					(End)	03/27/14 18:00		
Total/NA	Prep	9010B			228949	03/27/14 09:48	BIS	TAL CHI
Total/NA	Analysis	9014		1	229062		BIS	TAL CHI
					(Start)	03/27/14 15:51		
					(End)	03/27/14 15:52		
Total/NA	Prep	9030B			229333	03/31/14 08:45	JG	TAL CHI
Total/NA	Analysis	9034		1	229382	03/31/14 10:06	JG	TAL CHI

Lab Chronicle

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - Concrete Repair

TestAmerica Job ID: 500-73885-1

Client Sample ID: Quality Soil

Lab Sample ID: 500-73885-4

Date Collected: 03/25/14 08:30

Matrix: Soil

Date Received: 03/26/14 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	229652		JLE	TAL CHI
					(Start)	04/01/14 14:33		
					(End)	04/01/14 14:38		
Total/NA	Analysis	9095A		1	229097		NLR	TAL CHI
					(Start)	03/27/14 22:55		
					(End)	03/27/14 23:00		
Total/NA	Analysis	Moisture		1	228828	03/26/14 15:54	LWN	TAL CHI
Total/NA	Analysis	SM 2710F		1	229262	03/28/14 22:06	SJS	TAL CHI

Laboratory References:

SFAL = SF Analytical Laboratories, 2345 South 170th Street, New Berlin, WI 53151

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

Certification Summary

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - Concrete Repair

TestAmerica Job ID: 500-73885-1

Laboratory: TestAmerica Chicago

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	999580010	08-31-14

TestAmerica

THE LEADER IN ENVIRONMENT

2417 Bond Street, University Park, IL
Phone: 708.534.5200 Fax: 708.

500-73885 COC

(optional)

Report To
Contact: Alina Walcek
Company: Madison Kipp
Address: 201 Waubesa St.
Address: Madison, WI 53704
Phone: 608-242-5200
Fax:
E-Mail: awalcek@madison-kipp.com

(optional)

Bill To
Contact: Ellen Riese
Company: Madison Kipp
Address: PO Box 8043
Address: Madison WI 53708
Phone: 608-242-5230
Fax:
PO#/Reference# 0000279000

Chain of Custody Record

Lab Job #: 500-73885

Chain of Custody Number:

Page 1 of 1

Temperature °C of Cooler: 0.9

Client	Madison Kipp
Project Name	Concrete Repair
Project Location/State	Madison, WI
Sampler	A Walcek
Client Project #	
Lab Project #	
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: Protocol B	Comments
1		Quality 1	3/24/14	12:30	1	O	—	X	Concrete
2		Quality 2	3/24/14	13:00	1	O		X	Concrete
3		Quality 3	3/24/14	13:45	1	O		X	Concrete
4		Quality Soil	3/25/14	8:30	1	S		X	

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days X Other ASAP
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
Alina Walcek	MKC	3/26/14	12:00	JLT	TA	3/26/14	0950
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped UPS
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-4124-508 (1209)

4/2/2014

Login Sample Receipt Checklist

Client: Madison-Kipp Corporation

Job Number: 500-73885-1

Login Number: 73885

List Source: TestAmerica Chicago

List Number: 1

Creator: Lunt, Jeff T

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	0.9
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
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.	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	

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: 500-73885-1
Client Project/Site: MadisonKipp - Concrete Repair

For:
Madison-Kipp Corporation
201 Waubesa Street
Madison, Wisconsin 53704

Attn: Alina Walcek

Authorized for release by:
4/2/2014 12:29:51 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.

Table of Contents

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - Concrete Repair

TestAmerica Job ID: 500-73885-1

Job ID: 500-73885-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-73885-1

Comments
No additional comments.

Receipt
The samples were received on 3/26/2014 9:50 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
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8082: The following samples were diluted to bring the concentration of target analytes within the calibration range: Quality 1 (500-73885-1), Quality 2 (500-73885-2), Quality 3 (500-73885-3), Quality Soil (500-73885-4). Elevated reporting limits (RLs) are provided.

Method(s) 8082: The following sample(s) required a dilution due to the nature of the sample matrix: Quality 1 (500-73885-1), Quality 2 (500-73885-2), Quality 3 (500-73885-3), Quality Soil (500-73885-4). Because of these dilutions, the surrogate spike concentration in the samples was reduced to a level where the recovery calculation does not provide useful information.

No other analytical or quality issues were noted.

Metals
Method(s) 6010B: The %RSD for the CCV in AD batch 229343 at line 51 was outside the 5% control limits for Ag, As, Ba, Cd, Cr, Cu and Zn; however both burns were within control limits. The data has been reported.

No other analytical or quality issues were noted.

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

Subcontract non-Sister
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.

Subcontract Work
Method Chlorine Parr Bomb: This method was subcontracted to SF Analytical Laboratories. The subcontract certification is different from those listed on the TestAmerica cover page of this final report.

Detection Summary

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - Concrete Repair

TestAmerica Job ID: 500-73885-1

Client Sample ID: Quality 1 — Lab Sample ID: 500-73885-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
3 & 4 Methylphenol	0.083		0.020	0.020	mg/L	1		8270D	TCLP
Phenol	0.41		0.050	0.050	mg/L	1		8270D	TCLP
PCB-1242	100000		16000	5300	ug/Kg	1000		8082	Total/NA
Polychlorinated biphenyls, Total	100000		16000	3100	ug/Kg	1000		8082	Total/NA
Barium	0.29	J	0.50	0.050	mg/L	1		6010B	TCLP
Chromium	0.024	J	0.025	0.010	mg/L	1		6010B	TCLP
Flashpoint	>176		40.0	40.0	Degrees F	1		1010	Total/NA
Cyanide, Total	0.22	J	0.46	0.15	mg/Kg	1		9014	Total/NA
Sulfide	8.7	J	9.9	4.7	mg/Kg	1		9034	Total/NA
pH	12.5		0.200	0.200	SU	1		9045C	Total/NA
Paint Filter	pass				mL/100g	1		9095A	Total/NA
Specific Gravity	1.29				NONE	1		SM 2710F	Total/NA

Client Sample ID: Quality 2 — Lab Sample ID: 500-73885-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
3 & 4 Methylphenol	0.080		0.020	0.020	mg/L	1		8270D	TCLP
Phenol	0.38		0.050	0.050	mg/L	1		8270D	TCLP
PCB-1242	2800		810	270	ug/Kg	50		8082	Total/NA
Polychlorinated biphenyls, Total	2800		810	150	ug/Kg	50		8082	Total/NA
Barium	0.21	J	0.50	0.050	mg/L	1		6010B	TCLP
Chromium	0.032		0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.012	J	0.025	0.010	mg/L	1		6010B	TCLP
Flashpoint	>176		40.0	40.0	Degrees F	1		1010	Total/NA
Cyanide, Total	0.19	J	0.50	0.16	mg/Kg	1		9014	Total/NA
pH	12.4		0.200	0.200	SU	1		9045C	Total/NA
Paint Filter	pass				mL/100g	1		9095A	Total/NA
Specific Gravity	1.47				NONE	1		SM 2710F	Total/NA

Client Sample ID: Quality 3 — Lab Sample ID: 500-73885-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
3 & 4 Methylphenol	0.077		0.020	0.020	mg/L	1		8270D	TCLP
Phenol - DL	1.0		0.25	0.25	mg/L	5		8270D	TCLP
PCB-1248	16000		8300	3300	ug/Kg	500		8082	Total/NA
Polychlorinated biphenyls, Total	16000		8300	1600	ug/Kg	500		8082	Total/NA
Barium	0.66		0.50	0.050	mg/L	1		6010B	TCLP
Flashpoint	>176		40.0	40.0	Degrees F	1		1010	Total/NA
Cyanide, Total	5.5		0.46	0.15	mg/Kg	1		9014	Total/NA
Sulfide	11		9.9	4.7	mg/Kg	1		9034	Total/NA
pH	12.5		0.200	0.200	SU	1		9045C	Total/NA
Paint Filter	pass				mL/100g	1		9095A	Total/NA
Specific Gravity	1.42				NONE	1		SM 2710F	Total/NA

Client Sample ID: Quality Soil — Lab Sample ID: 500-73885-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	20000		1600	520	ug/Kg	100		8082	Total/NA
Polychlorinated biphenyls, Total	20000		1600	310	ug/Kg	100		8082	Total/NA
Barium	0.51		0.50	0.050	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - Concrete Repair

TestAmerica Job ID: 500-73885-1

Client Sample ID: Quality Soil (Continued)

Lab Sample ID: 500-73885-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	0.031	J	0.10	0.020	mg/L	1		6010B	TCLP
Flashpoint	>176		40.0	40.0	Degrees F	1		1010	Total/NA
Cyanide, Total	0.17	J	0.50	0.16	mg/Kg	1		9014	Total/NA
Sulfide	7.4	J	9.7	4.6	mg/Kg	1		9034	Total/NA
pH	9.51		0.200	0.200	SU	1		9045C	Total/NA
Paint Filter	pass				mL/100g	1		9095A	Total/NA
Specific Gravity	1.92				NONE	1		SM 2710F	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - Concrete Repair

TestAmerica Job ID: 500-73885-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
7470A	Mercury (CVAA)	SW846	TAL CHI
1010	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL CHI
9014	Cyanide	SW846	TAL CHI
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	TAL CHI
9045C	pH	SW846	TAL CHI
9095A	Paint Filter	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
SM 2710F	Specific Gravity, Density	SM	TAL CHI
Chlorine Parr Bomb	General Sub Contract Method	NONE	SFAL

Protocol References:

EPA = US Environmental Protection Agency

NONE = NONE

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

SFAL = SF Analytical Laboratories, 2345 South 170th Street, New Berlin, WI 53151

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

Sample Summary

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - Concrete Repair

TestAmerica Job ID: 500-73885-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-73885-1	Quality 1	Solid	03/24/14 12:30	03/26/14 09:50
500-73885-2	Quality 2	Solid	03/24/14 13:00	03/26/14 09:50
500-73885-3	Quality 3	Solid	03/24/14 13:45	03/26/14 09:50
500-73885-4	Quality Soil	Soil	03/25/14 08:30	03/26/14 09:50

Client Sample ID: Quality 1
Date Collected: 03/24/14 12:30
Date Received: 03/26/14 09:50

Lab Sample ID: 500-73885-1
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.010		0.020	0.010	mg/L			03/30/14 13:41	20
Carbon tetrachloride	<0.010		0.020	0.010	mg/L			03/30/14 13:41	20
Chlorobenzene	<0.010		0.020	0.010	mg/L			03/30/14 13:41	20
Chloroform	<0.010		0.020	0.010	mg/L			03/30/14 13:41	20
1,2-Dichloroethane	<0.010		0.020	0.010	mg/L			03/30/14 13:41	20
1,1-Dichloroethene	<0.010		0.020	0.010	mg/L			03/30/14 13:41	20
Methyl Ethyl Ketone	<0.050		0.10	0.050	mg/L			03/30/14 13:41	20
Tetrachloroethene	<0.010		0.020	0.010	mg/L			03/30/14 13:41	20
Trichloroethene	<0.010		0.020	0.010	mg/L			03/30/14 13:41	20
Vinyl chloride	<0.010		0.020	0.010	mg/L			03/30/14 13:41	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 125*		*03/30/14 13:41*	*20*
Toluene-d8 (Surr)	*104*		*75 - 120*		*03/30/14 13:41*	*20*
4-Bromofluorobenzene (Surr)	*82*		*75 - 120*		*03/30/14 13:41*	*20*
Dibromofluoromethane	*97*		*75 - 120*		*03/30/14 13:41*	*20*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.020		0.020	0.020	mg/L		03/28/14 17:35	03/31/14 19:16	1
2,4,5-Trichlorophenol	<0.10		0.10	0.10	mg/L		03/28/14 17:35	03/31/14 19:16	1
2,4,6-Trichlorophenol	<0.050		0.050	0.050	mg/L		03/28/14 17:35	03/31/14 19:16	1
2,4-Dinitrotoluene	<0.010		0.010	0.010	mg/L		03/28/14 17:35	03/31/14 19:16	1
2-Methylphenol	<0.020		0.020	0.020	mg/L		03/28/14 17:35	03/31/14 19:16	1
3 & 4 Methylphenol	**0.083**		0.020	0.020	mg/L		03/28/14 17:35	03/31/14 19:16	1
Hexachlorobenzene	<0.0050		0.0050	0.0050	mg/L		03/28/14 17:35	03/31/14 19:16	1
Hexachlorobutadiene	<0.050		0.050	0.050	mg/L		03/28/14 17:35	03/31/14 19:16	1
Hexachloroethane	<0.050		0.050	0.050	mg/L		03/28/14 17:35	03/31/14 19:16	1
Nitrobenzene	<0.010		0.010	0.010	mg/L		03/28/14 17:35	03/31/14 19:16	1
Pentachlorophenol	<0.20		0.20	0.20	mg/L		03/28/14 17:35	03/31/14 19:16	1
Phenol	**0.41**		0.050	0.050	mg/L		03/28/14 17:35	03/31/14 19:16	1
Pyridine	<0.20		0.20	0.20	mg/L		03/28/14 17:35	03/31/14 19:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*94*		*50 - 129*	*03/28/14 17:35*	*03/31/14 19:16*	*1*
2-Fluorobiphenyl	*77*		*48 - 110*	*03/28/14 17:35*	*03/31/14 19:16*	*1*
2-Fluorophenol (Surr)	*42*		*20 - 100*	*03/28/14 17:35*	*03/31/14 19:16*	*1*
Nitrobenzene-d5 (Surr)	*65*		*41 - 110*	*03/28/14 17:35*	*03/31/14 19:16*	*1*
Phenol-d5 (Surr)	*30*		*20 - 100*	*03/28/14 17:35*	*03/31/14 19:16*	*1*
Terphenyl-d14 (Surr)	*97*		*44 - 132*	*03/28/14 17:35*	*03/31/14 19:16*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5700		16000	5700	ug/Kg		03/27/14 19:03	03/28/14 15:41	1000
PCB-1221	<7100		16000	7100	ug/Kg		03/27/14 19:03	03/28/14 15:41	1000
PCB-1232	<7000		16000	7000	ug/Kg		03/27/14 19:03	03/28/14 15:41	1000
PCB-1242	**100000**		16000	5300	ug/Kg		03/27/14 19:03	03/28/14 15:41	1000
PCB-1248	<6300		16000	6300	ug/Kg		03/27/14 19:03	03/28/14 15:41	1000
PCB-1254	<3500		16000	3500	ug/Kg		03/27/14 19:03	03/28/14 15:41	1000
PCB-1260	<7900		16000	7900	ug/Kg		03/27/14 19:03	03/28/14 15:41	1000

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - Concrete Repair

TestAmerica Job ID: 500-73885-1

Client Sample ID: Quality 1
Date Collected: 03/24/14 12:30
Date Received: 03/26/14 09:50

Lab Sample ID: 500-73885-1
Matrix: Solid

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Polychlorinated biphenyls, Total	**100000**		16000	3100	ug/Kg		03/27/14 19:03	03/28/14 15:41	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*D*	*50 - 116*	*03/27/14 19:03*	*03/28/14 15:41*	*1000*
DCB Decachlorobiphenyl	*0*	*D*	*48 - 142*	*03/27/14 19:03*	*03/28/14 15:41*	*1000*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		03/28/14 08:15	03/28/14 15:53	1
Barium	**0.29**	**J**	0.50	0.050	mg/L		03/28/14 08:15	03/28/14 15:53	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		03/28/14 08:15	03/28/14 15:53	1
Chromium	**0.024**	**J**	0.025	0.010	mg/L		03/28/14 08:15	03/28/14 15:53	1
Copper	<0.010		0.025	0.010	mg/L		03/28/14 08:15	03/28/14 15:53	1
Lead	<0.0075		0.050	0.0075	mg/L		03/28/14 08:15	03/28/14 15:53	1
Nickel	<0.010		0.025	0.010	mg/L		03/28/14 08:15	03/28/14 15:53	1
Selenium	<0.010		0.050	0.010	mg/L		03/28/14 08:15	03/28/14 15:53	1
Silver	<0.010		0.025	0.010	mg/L		03/28/14 08:15	03/28/14 15:53	1
Zinc	<0.020		0.10	0.020	mg/L		03/28/14 08:15	03/28/14 15:53	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000020		0.00020	0.000020	mg/L		03/28/14 14:57	03/31/14 09:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>176**		40.0	40.0	Degrees F			03/26/14 22:02	1
Cyanide, Total	**0.22**	**J**	0.46	0.15	mg/Kg		03/27/14 09:48	03/27/14 15:50	1
Sulfide	**8.7**	**J**	9.9	4.7	mg/Kg		03/31/14 08:15	03/31/14 09:58	1
pH	**12.5**		0.200	0.200	SU			04/01/14 14:15	1
Paint Filter	**pass**				mL/100g			03/27/14 22:55	1
Specific Gravity	**1.29**				NONE			03/28/14 21:39	1

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - Concrete Repair

TestAmerica Job ID: 500-73885-1

Client Sample ID: Quality 2
Date Collected: 03/24/14 13:00
Date Received: 03/26/14 09:50

Lab Sample ID: 500-73885-2
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.010		0.020	0.010	mg/L			03/30/14 14:06	20
Carbon tetrachloride	<0.010		0.020	0.010	mg/L			03/30/14 14:06	20
Chlorobenzene	<0.010		0.020	0.010	mg/L			03/30/14 14:06	20
Chloroform	<0.010		0.020	0.010	mg/L			03/30/14 14:06	20
1,2-Dichloroethane	<0.010		0.020	0.010	mg/L			03/30/14 14:06	20
1,1-Dichloroethene	<0.010		0.020	0.010	mg/L			03/30/14 14:06	20
Methyl Ethyl Ketone	<0.050		0.10	0.050	mg/L			03/30/14 14:06	20
Tetrachloroethene	<0.010		0.020	0.010	mg/L			03/30/14 14:06	20
Trichloroethene	<0.010		0.020	0.010	mg/L			03/30/14 14:06	20
Vinyl chloride	<0.010		0.020	0.010	mg/L			03/30/14 14:06	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 125*		*03/30/14 14:06*	*20*
Toluene-d8 (Surr)	*103*		*75 - 120*		*03/30/14 14:06*	*20*
4-Bromofluorobenzene (Surr)	*79*		*75 - 120*		*03/30/14 14:06*	*20*
Dibromofluoromethane	*98*		*75 - 120*		*03/30/14 14:06*	*20*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.020		0.020	0.020	mg/L		03/28/14 17:35	03/31/14 19:40	1
2,4,5-Trichlorophenol	<0.10		0.10	0.10	mg/L		03/28/14 17:35	03/31/14 19:40	1
2,4,6-Trichlorophenol	<0.050		0.050	0.050	mg/L		03/28/14 17:35	03/31/14 19:40	1
2,4-Dinitrotoluene	<0.010		0.010	0.010	mg/L		03/28/14 17:35	03/31/14 19:40	1
2-Methylphenol	<0.020		0.020	0.020	mg/L		03/28/14 17:35	03/31/14 19:40	1
3 & 4 Methylphenol	**0.080**		0.020	0.020	mg/L		03/28/14 17:35	03/31/14 19:40	1
Hexachlorobenzene	<0.0050		0.0050	0.0050	mg/L		03/28/14 17:35	03/31/14 19:40	1
Hexachlorobutadiene	<0.050		0.050	0.050	mg/L		03/28/14 17:35	03/31/14 19:40	1
Hexachloroethane	<0.050		0.050	0.050	mg/L		03/28/14 17:35	03/31/14 19:40	1
Nitrobenzene	<0.010		0.010	0.010	mg/L		03/28/14 17:35	03/31/14 19:40	1
Pentachlorophenol	<0.20		0.20	0.20	mg/L		03/28/14 17:35	03/31/14 19:40	1
Phenol	**0.38**		0.050	0.050	mg/L		03/28/14 17:35	03/31/14 19:40	1
Pyridine	<0.20		0.20	0.20	mg/L		03/28/14 17:35	03/31/14 19:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*92*		*50 - 129*	*03/28/14 17:35*	*03/31/14 19:40*	*1*
2-Fluorobiphenyl	*76*		*48 - 110*	*03/28/14 17:35*	*03/31/14 19:40*	*1*
2-Fluorophenol (Surr)	*45*		*20 - 100*	*03/28/14 17:35*	*03/31/14 19:40*	*1*
Nitrobenzene-d5 (Surr)	*68*		*41 - 110*	*03/28/14 17:35*	*03/31/14 19:40*	*1*
Phenol-d5 (Surr)	*32*		*20 - 100*	*03/28/14 17:35*	*03/31/14 19:40*	*1*
Terphenyl-d14 (Surr)	*101*		*44 - 132*	*03/28/14 17:35*	*03/31/14 19:40*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<290		810	290	ug/Kg		03/27/14 19:03	03/28/14 15:00	50
PCB-1221	<360		810	360	ug/Kg		03/27/14 19:03	03/28/14 15:00	50
PCB-1232	<350		810	350	ug/Kg		03/27/14 19:03	03/28/14 15:00	50
PCB-1242	**2800**		810	270	ug/Kg		03/27/14 19:03	03/28/14 15:00	50
PCB-1248	<320		810	320	ug/Kg		03/27/14 19:03	03/28/14 15:00	50
PCB-1254	<170		810	170	ug/Kg		03/27/14 19:03	03/28/14 15:00	50
PCB-1260	<400		810	400	ug/Kg		03/27/14 19:03	03/28/14 15:00	50

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - Concrete Repair

TestAmerica Job ID: 500-73885-1

Client Sample ID: Quality 2
Date Collected: 03/24/14 13:00
Date Received: 03/26/14 09:50

Lab Sample ID: 500-73885-2
Matrix: Solid

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Polychlorinated biphenyls, Total	**2800**		810	150	ug/Kg		03/27/14 19:03	03/28/14 15:00	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*D*	*50 - 116*	*03/27/14 19:03*	*03/28/14 15:00*	*50*
DCB Decachlorobiphenyl	*0*	*D*	*48 - 142*	*03/27/14 19:03*	*03/28/14 15:00*	*50*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		03/28/14 08:15	03/28/14 15:59	1
Barium	**0.21**	**J**	0.50	0.050	mg/L		03/28/14 08:15	03/28/14 15:59	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		03/28/14 08:15	03/28/14 15:59	1
Chromium	**0.032**		0.025	0.010	mg/L		03/28/14 08:15	03/28/14 15:59	1
Copper	<0.010		0.025	0.010	mg/L		03/28/14 08:15	03/28/14 15:59	1
Lead	<0.0075		0.050	0.0075	mg/L		03/28/14 08:15	03/28/14 15:59	1
Nickel	**0.012**	**J**	0.025	0.010	mg/L		03/28/14 08:15	03/28/14 15:59	1
Selenium	<0.010		0.050	0.010	mg/L		03/28/14 08:15	03/28/14 15:59	1
Silver	<0.010		0.025	0.010	mg/L		03/28/14 08:15	03/28/14 15:59	1
Zinc	<0.020		0.10	0.020	mg/L		03/28/14 08:15	03/28/14 15:59	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000020		0.00020	0.000020	mg/L		03/28/14 14:57	03/31/14 09:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>176**		40.0	40.0	Degrees F			03/26/14 23:56	1
Cyanide, Total	**0.19**	**J**	0.50	0.16	mg/Kg		03/27/14 09:48	03/27/14 15:51	1
Sulfide	<4.7		9.8	4.7	mg/Kg		03/31/14 08:25	03/31/14 10:01	1
pH	**12.4**		0.200	0.200	SU			04/01/14 14:24	1
Paint Filter	**pass**				mL/100g			03/27/14 22:55	1
Specific Gravity	**1.47**				NONE			03/28/14 21:48	1

Client Sample ID: Quality 3
Date Collected: 03/24/14 13:45
Date Received: 03/26/14 09:50

Lab Sample ID: 500-73885-3
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.010		0.020	0.010	mg/L			03/30/14 14:31	20
Carbon tetrachloride	<0.010		0.020	0.010	mg/L			03/30/14 14:31	20
Chlorobenzene	<0.010		0.020	0.010	mg/L			03/30/14 14:31	20
Chloroform	<0.010		0.020	0.010	mg/L			03/30/14 14:31	20
1,2-Dichloroethane	<0.010		0.020	0.010	mg/L			03/30/14 14:31	20
1,1-Dichloroethene	<0.010		0.020	0.010	mg/L			03/30/14 14:31	20
Methyl Ethyl Ketone	<0.050		0.10	0.050	mg/L			03/30/14 14:31	20
Tetrachloroethene	<0.010		0.020	0.010	mg/L			03/30/14 14:31	20
Trichloroethene	<0.010		0.020	0.010	mg/L			03/30/14 14:31	20
Vinyl chloride	<0.010		0.020	0.010	mg/L			03/30/14 14:31	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 125*		*03/30/14 14:31*	*20*
Toluene-d8 (Surr)	*105*		*75 - 120*		*03/30/14 14:31*	*20*
4-Bromofluorobenzene (Surr)	*82*		*75 - 120*		*03/30/14 14:31*	*20*
Dibromofluoromethane	*92*		*75 - 120*		*03/30/14 14:31*	*20*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.020		0.020	0.020	mg/L		03/28/14 17:35	04/01/14 14:15	1
2,4,5-Trichlorophenol	<0.10		0.10	0.10	mg/L		03/28/14 17:35	04/01/14 14:15	1
2,4,6-Trichlorophenol	<0.050		0.050	0.050	mg/L		03/28/14 17:35	04/01/14 14:15	1
2,4-Dinitrotoluene	<0.010		0.010	0.010	mg/L		03/28/14 17:35	04/01/14 14:15	1
2-Methylphenol	<0.020		0.020	0.020	mg/L		03/28/14 17:35	04/01/14 14:15	1
3 & 4 Methylphenol	**0.077**		0.020	0.020	mg/L		03/28/14 17:35	04/01/14 14:15	1
Hexachlorobenzene	<0.0050		0.0050	0.0050	mg/L		03/28/14 17:35	04/01/14 14:15	1
Hexachlorobutadiene	<0.050		0.050	0.050	mg/L		03/28/14 17:35	04/01/14 14:15	1
Hexachloroethane	<0.050		0.050	0.050	mg/L		03/28/14 17:35	04/01/14 14:15	1
Nitrobenzene	<0.010		0.010	0.010	mg/L		03/28/14 17:35	04/01/14 14:15	1
Pentachlorophenol	<0.20		0.20	0.20	mg/L		03/28/14 17:35	04/01/14 14:15	1
Pyridine	<0.20		0.20	0.20	mg/L		03/28/14 17:35	04/01/14 14:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*108*		*50 - 129*	*03/28/14 17:35*	*04/01/14 14:15*	*1*
2-Fluorobiphenyl	*74*		*48 - 110*	*03/28/14 17:35*	*04/01/14 14:15*	*1*
2-Fluorophenol (Surr)	*41*		*20 - 100*	*03/28/14 17:35*	*04/01/14 14:15*	*1*
Nitrobenzene-d5 (Surr)	*66*		*41 - 110*	*03/28/14 17:35*	*04/01/14 14:15*	*1*
Phenol-d5 (Surr)	*31*		*20 - 100*	*03/28/14 17:35*	*04/01/14 14:15*	*1*
Terphenyl-d14 (Surr)	*97*		*44 - 132*	*03/28/14 17:35*	*04/01/14 14:15*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	**1.0**		0.25	0.25	mg/L		03/28/14 17:35	04/01/14 12:41	5

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<2900		8300	2900	ug/Kg		03/27/14 19:03	03/28/14 15:14	500
PCB-1221	<3700		8300	3700	ug/Kg		03/27/14 19:03	03/28/14 15:14	500
PCB-1232	<3600		8300	3600	ug/Kg		03/27/14 19:03	03/28/14 15:14	500
PCB-1242	<2700		8300	2700	ug/Kg		03/27/14 19:03	03/28/14 15:14	500

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - Concrete Repair

TestAmerica Job ID: 500-73885-1

Client Sample ID: Quality 3
Date Collected: 03/24/14 13:45
Date Received: 03/26/14 09:50

Lab Sample ID: 500-73885-3
Matrix: Solid

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	**16000**		8300	3300	ug/Kg		03/27/14 19:03	03/28/14 15:14	500
PCB-1254	<1800		8300	1800	ug/Kg		03/27/14 19:03	03/28/14 15:14	500
PCB-1260	<4100		8300	4100	ug/Kg		03/27/14 19:03	03/28/14 15:14	500
Polychlorinated biphenyls, Total	**16000**		8300	1600	ug/Kg		03/27/14 19:03	03/28/14 15:14	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*D*	*50 - 116*	*03/27/14 19:03*	*03/28/14 15:14*	*500*
DCB Decachlorobiphenyl	*0*	*D*	*48 - 142*	*03/27/14 19:03*	*03/28/14 15:14*	*500*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		03/28/14 08:15	03/28/14 16:20	1
Barium	**0.66**		0.50	0.050	mg/L		03/28/14 08:15	03/28/14 16:20	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		03/28/14 08:15	03/28/14 16:20	1
Chromium	<0.010		0.025	0.010	mg/L		03/28/14 08:15	03/28/14 16:20	1
Copper	<0.010		0.025	0.010	mg/L		03/28/14 08:15	03/28/14 16:20	1
Lead	<0.0075		0.050	0.0075	mg/L		03/28/14 08:15	03/28/14 16:20	1
Nickel	<0.010		0.025	0.010	mg/L		03/28/14 08:15	03/28/14 16:20	1
Selenium	<0.010		0.050	0.010	mg/L		03/28/14 08:15	03/28/14 16:20	1
Silver	<0.010		0.025	0.010	mg/L		03/28/14 08:15	03/28/14 16:20	1
Zinc	<0.020		0.10	0.020	mg/L		03/28/14 08:15	03/28/14 16:20	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000020		0.00020	0.000020	mg/L		03/28/14 14:57	03/31/14 09:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>176**		40.0	40.0	Degrees F			03/27/14 15:15	1
Cyanide, Total	**5.5**		0.46	0.15	mg/Kg		03/27/14 09:48	03/27/14 15:51	1
Sulfide	**11**		9.9	4.7	mg/Kg		03/31/14 08:35	03/31/14 10:03	1
pH	**12.5**		0.200	0.200	SU			04/01/14 14:28	1
Paint Filter	**pass**				mL/100g			03/27/14 22:55	1
Specific Gravity	**1.42**				NONE			03/28/14 21:57	1

Client Sample ID: Quality Soil
Date Collected: 03/25/14 08:30
Date Received: 03/26/14 09:50

Lab Sample ID: 500-73885-4
Matrix: Soil

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.010		0.020	0.010	mg/L			03/30/14 14:55	20
Carbon tetrachloride	<0.010		0.020	0.010	mg/L			03/30/14 14:55	20
Chlorobenzene	<0.010		0.020	0.010	mg/L			03/30/14 14:55	20
Chloroform	<0.010		0.020	0.010	mg/L			03/30/14 14:55	20
1,2-Dichloroethane	<0.010		0.020	0.010	mg/L			03/30/14 14:55	20
1,1-Dichloroethene	<0.010		0.020	0.010	mg/L			03/30/14 14:55	20
Methyl Ethyl Ketone	<0.050		0.10	0.050	mg/L			03/30/14 14:55	20
Tetrachloroethene	<0.010		0.020	0.010	mg/L			03/30/14 14:55	20
Trichloroethene	<0.010		0.020	0.010	mg/L			03/30/14 14:55	20
Vinyl chloride	<0.010		0.020	0.010	mg/L			03/30/14 14:55	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 125*		*03/30/14 14:55*	*20*
Toluene-d8 (Surr)	*104*		*75 - 120*		*03/30/14 14:55*	*20*
4-Bromofluorobenzene (Surr)	*78*		*75 - 120*		*03/30/14 14:55*	*20*
Dibromofluoromethane	*99*		*75 - 120*		*03/30/14 14:55*	*20*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.020		0.020	0.020	mg/L		03/28/14 17:35	03/31/14 20:28	1
2,4,5-Trichlorophenol	<0.10		0.10	0.10	mg/L		03/28/14 17:35	03/31/14 20:28	1
2,4,6-Trichlorophenol	<0.050		0.050	0.050	mg/L		03/28/14 17:35	03/31/14 20:28	1
2,4-Dinitrotoluene	<0.010		0.010	0.010	mg/L		03/28/14 17:35	03/31/14 20:28	1
2-Methylphenol	<0.020		0.020	0.020	mg/L		03/28/14 17:35	03/31/14 20:28	1
3 & 4 Methylphenol	<0.020		0.020	0.020	mg/L		03/28/14 17:35	03/31/14 20:28	1
Hexachlorobenzene	<0.0050		0.0050	0.0050	mg/L		03/28/14 17:35	03/31/14 20:28	1
Hexachlorobutadiene	<0.050		0.050	0.050	mg/L		03/28/14 17:35	03/31/14 20:28	1
Hexachloroethane	<0.050		0.050	0.050	mg/L		03/28/14 17:35	03/31/14 20:28	1
Nitrobenzene	<0.010		0.010	0.010	mg/L		03/28/14 17:35	03/31/14 20:28	1
Pentachlorophenol	<0.20		0.20	0.20	mg/L		03/28/14 17:35	03/31/14 20:28	1
Phenol	<0.050		0.050	0.050	mg/L		03/28/14 17:35	03/31/14 20:28	1
Pyridine	<0.20		0.20	0.20	mg/L		03/28/14 17:35	03/31/14 20:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*91*		*50 - 129*	*03/28/14 17:35*	*03/31/14 20:28*	*1*
2-Fluorobiphenyl	*79*		*48 - 110*	*03/28/14 17:35*	*03/31/14 20:28*	*1*
2-Fluorophenol (Surr)	*47*		*20 - 100*	*03/28/14 17:35*	*03/31/14 20:28*	*1*
Nitrobenzene-d5 (Surr)	*69*		*41 - 110*	*03/28/14 17:35*	*03/31/14 20:28*	*1*
Phenol-d5 (Surr)	*32*		*20 - 100*	*03/28/14 17:35*	*03/31/14 20:28*	*1*
Terphenyl-d14 (Surr)	*104*		*44 - 132*	*03/28/14 17:35*	*03/31/14 20:28*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<560		1600	560	ug/Kg		03/27/14 19:03	03/28/14 15:27	100
PCB-1221	<700		1600	700	ug/Kg		03/27/14 19:03	03/28/14 15:27	100
PCB-1232	<700		1600	700	ug/Kg		03/27/14 19:03	03/28/14 15:27	100
PCB-1242	**20000**		1600	520	ug/Kg		03/27/14 19:03	03/28/14 15:27	100
PCB-1248	<630		1600	630	ug/Kg		03/27/14 19:03	03/28/14 15:27	100
PCB-1254	<340		1600	340	ug/Kg		03/27/14 19:03	03/28/14 15:27	100
PCB-1260	<780		1600	780	ug/Kg		03/27/14 19:03	03/28/14 15:27	100

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - Concrete Repair

TestAmerica Job ID: 500-73885-1

Client Sample ID: Quality Soil
Date Collected: 03/25/14 08:30
Date Received: 03/26/14 09:50

Lab Sample ID: 500-73885-4
Matrix: Soil

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Polychlorinated biphenyls, Total	**20000**		1600	310	ug/Kg		03/27/14 19:03	03/28/14 15:27	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*D*	*50 - 116*	*03/27/14 19:03*	*03/28/14 15:27*	*100*
DCB Decachlorobiphenyl	*0*	*D*	*48 - 142*	*03/27/14 19:03*	*03/28/14 15:27*	*100*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		03/28/14 08:15	03/28/14 16:26	1
Barium	**0.51**		0.50	0.050	mg/L		03/28/14 08:15	03/28/14 16:26	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		03/28/14 08:15	03/28/14 16:26	1
Chromium	<0.010		0.025	0.010	mg/L		03/28/14 08:15	03/28/14 16:26	1
Copper	<0.010		0.025	0.010	mg/L		03/28/14 08:15	03/28/14 16:26	1
Lead	<0.0075		0.050	0.0075	mg/L		03/28/14 08:15	03/28/14 16:26	1
Nickel	<0.010		0.025	0.010	mg/L		03/28/14 08:15	03/28/14 16:26	1
Selenium	<0.010		0.050	0.010	mg/L		03/28/14 08:15	03/28/14 16:26	1
Silver	<0.010		0.025	0.010	mg/L		03/28/14 08:15	03/28/14 16:26	1
Zinc	**0.031**	**J**	0.10	0.020	mg/L		03/28/14 08:15	03/28/14 16:26	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000020		0.00020	0.000020	mg/L		03/28/14 14:57	03/31/14 09:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>176**		40.0	40.0	Degrees F			03/27/14 16:37	1
Cyanide, Total	**0.17**	**J**	0.50	0.16	mg/Kg		03/27/14 09:48	03/27/14 15:51	1
Sulfide	**7.4**	**J**	9.7	4.6	mg/Kg		03/31/14 08:45	03/31/14 10:06	1
pH	**9.51**		0.200	0.200	SU			04/01/14 14:33	1
Paint Filter	**pass**				mL/100g			03/27/14 22:55	1
Specific Gravity	**1.92**				NONE			03/28/14 22:06	1

TestAmerica Laboratories, Inc.
Attention: Sandie Fredrick
2417 Bond St
University Park,IL 60484

Date Received: 03/27/2014
Date Reported: 03/31/14 12:27
Client Project: Soil/Waste
Client Project ID: 50009145
PO# 2561509
Project #: 50009145

Certificate of Analysis

This analytical test report shall not be reproduced, except in full, without written permission from SF Analytical Laboratories.
All quality control samples and checks were within acceptance limits unless otherwise indicated. Test results pertain only to those items tested. All samples were in good condition when received by the laboratory unless otherwise noted. All LOD/LOQs are adjusted to reflect dilutions.

DNR #	Analyte	Result Wet Wt.	LOD Wet Wt.	Result Dry Wt.	LOD Dry Wt.	Units	Dilution Factor	Date Prepared	Date Analyzed	Method	Notes
SXC0934-01	**Quality 1 (500-73885-1)**					**Date Collected: 03/24/2014**					
	Preparation: SW-846 5050					Prepared By: HTM		Analyzed By:	HTM		
	Chlorine as Cl	0.019	0.005	0.019	0.005	% Wt.	5	3/28/14	03/28/14	D808	
	Solids		97.33			% Wt.		Analyzed By: 3/27/14	HTM 03/28/14	SM2540G 20th Ed.	
SXC0934-02	**Quality 2 (500-73885-2)**					**Date Collected: 03/24/2014**					
	Preparation: SW-846 5050					Prepared By: HTM		Analyzed By:	HTM		
	Chlorine as Cl	0.017	0.005	0.018	0.005	% Wt.	5	3/28/14	03/28/14	D808	
	Solids		96.20			% Wt.		Analyzed By: 3/27/14	HTM 03/28/14	SM2540G 20th Ed.	
SXC0934-03	**Quality 3 (500-73885-3)**					**Date Collected: 03/24/2014**					
	Preparation: SW-846 5050					Prepared By: HTM		Analyzed By:	HTM		
	Chlorine as Cl	0.023	0.005	0.024	0.005	% Wt.	5	3/28/14	03/28/14	D808	
	Solids		96.81			% Wt.		Analyzed By: 3/27/14	HTM 03/28/14	SM2540G 20th Ed.	
SXC0934-04	**Quality Soil (500-73885-4)**					**Date Collected: 03/25/2014**					
	Preparation: SW-846 5050					Prepared By: HTM		Analyzed By:	HTM		
	Chlorine as Cl	0.010	0.002	0.011	0.002	% Wt.	1	3/28/14	03/28/14	D808	
	Solids		84.03			% Wt.		Analyzed By: 3/27/14	HTM 03/28/14	SM2540G 20th Ed.	

This report was prepared and printed by:

Heather Martel for Gary Geipel, Specialty and Investigative Manager

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FDA Registered Laboratory #2134640 • USDA Soil Permit #S-76521

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.

Metals

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.

General Chemistry

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.

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
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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)

GC/MS VOA

Leach Batch: 229217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-1	Quality 1	TCLP	Solid	1311	
500-73885-2	Quality 2	TCLP	Solid	1311	
500-73885-3	Quality 3	TCLP	Solid	1311	
500-73885-4	Quality Soil	TCLP	Soil	1311	
LB 500-229217/1-A	Method Blank	TCLP	Solid	1311	

Analysis Batch: 229279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-1	Quality 1	TCLP	Solid	8260B	229217
500-73885-2	Quality 2	TCLP	Solid	8260B	229217
500-73885-3	Quality 3	TCLP	Solid	8260B	229217
500-73885-4	Quality Soil	TCLP	Soil	8260B	229217
LB 500-229217/1-A	Method Blank	TCLP	Solid	8260B	229217
LCS 500-229279/4	Lab Control Sample	Total/NA	Solid	8260B	
MB 500-229279/6	Method Blank	Total/NA	Solid	8260B	

GC/MS Semi VOA

Leach Batch: 228994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-4	Quality Soil	TCLP	Soil	1311	
LB 500-228994/1-E	Method Blank	TCLP	Solid	1311	

Leach Batch: 228998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-1	Quality 1	TCLP	Solid	1311	
500-73885-2	Quality 2	TCLP	Solid	1311	
500-73885-3 - DL	Quality 3	TCLP	Solid	1311	
500-73885-3	Quality 3	TCLP	Solid	1311	
LB2 500-228998/1-E	Method Blank	TCLP	Solid	1311	

Prep Batch: 229247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-1	Quality 1	TCLP	Solid	3510C	228998
500-73885-2	Quality 2	TCLP	Solid	3510C	228998
500-73885-3 - DL	Quality 3	TCLP	Solid	3510C	228998
500-73885-3	Quality 3	TCLP	Solid	3510C	228998
500-73885-4	Quality Soil	TCLP	Soil	3510C	228994
LB 500-228994/1-E	Method Blank	TCLP	Solid	3510C	228994
LB2 500-228998/1-E	Method Blank	TCLP	Solid	3510C	228998
LCS 500-229247/2-A	Lab Control Sample	Total/NA	Solid	3510C	
MB 500-229247/1-A	Method Blank	Total/NA	Solid	3510C	

Analysis Batch: 229381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-1	Quality 1	TCLP	Solid	8270D	229247
500-73885-2	Quality 2	TCLP	Solid	8270D	229247
500-73885-4	Quality Soil	TCLP	Soil	8270D	229247
LB 500-228994/1-E	Method Blank	TCLP	Solid	8270D	229247
LB2 500-228998/1-E	Method Blank	TCLP	Solid	8270D	229247

GC/MS Semi VOA (Continued)

Analysis Batch: 229381 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-229247/2-A	Lab Control Sample	Total/NA	Solid	8270D	229247
MB 500-229247/1-A	Method Blank	Total/NA	Solid	8270D	229247

Analysis Batch: 229541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-3 - DL	Quality 3	TCLP	Solid	8270D	229247
500-73885-3	Quality 3	TCLP	Solid	8270D	229247

GC Semi VOA

Prep Batch: 229086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-1	Quality 1	Total/NA	Solid	3541	
500-73885-2	Quality 2	Total/NA	Solid	3541	
500-73885-3	Quality 3	Total/NA	Solid	3541	
500-73885-4	Quality Soil	Total/NA	Soil	3541	
LCS 500-229086/3-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-229086/1-A	Method Blank	Total/NA	Solid	3541	

Analysis Batch: 229112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-1	Quality 1	Total/NA	Solid	8082	229086
500-73885-2	Quality 2	Total/NA	Solid	8082	229086
500-73885-3	Quality 3	Total/NA	Solid	8082	229086
500-73885-4	Quality Soil	Total/NA	Soil	8082	229086
LCS 500-229086/3-A	Lab Control Sample	Total/NA	Solid	8082	229086
MB 500-229086/1-A	Method Blank	Total/NA	Solid	8082	229086

Metals

Leach Batch: 228994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-4	Quality Soil	TCLP	Soil	1311	
LB 500-228994/1-B	Method Blank	TCLP	Solid	1311	
LB 500-228994/1-D	Method Blank	TCLP	Solid	1311	

Leach Batch: 228998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-1	Quality 1	TCLP	Solid	1311	
500-73885-2	Quality 2	TCLP	Solid	1311	
500-73885-3	Quality 3	TCLP	Solid	1311	
LB2 500-228998/1-B	Method Blank	TCLP	Solid	1311	
LB2 500-228998/1-D	Method Blank	TCLP	Solid	1311	

Prep Batch: 229148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-1	Quality 1	TCLP	Solid	3010A	228998
500-73885-2	Quality 2	TCLP	Solid	3010A	228998
500-73885-3	Quality 3	TCLP	Solid	3010A	228998
500-73885-4	Quality Soil	TCLP	Soil	3010A	228994

Metals (Continued)

Prep Batch: 229148 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-228994/1-B	Method Blank	TCLP	Solid	3010A	228994
LB2 500-228998/1-B	Method Blank	TCLP	Solid	3010A	228998
LCS 500-229148/4-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 229221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-1	Quality 1	TCLP	Solid	7470A	228998
500-73885-2	Quality 2	TCLP	Solid	7470A	228998
500-73885-3	Quality 3	TCLP	Solid	7470A	228998
500-73885-4	Quality Soil	TCLP	Soil	7470A	228994
LB 500-228994/1-D	Method Blank	TCLP	Solid	7470A	228994
LB2 500-228998/1-D	Method Blank	TCLP	Solid	7470A	228998
LCS 500-229221/13-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 500-229221/12-A	Method Blank	Total/NA	Solid	7470A	

Analysis Batch: 229343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-1	Quality 1	TCLP	Solid	6010B	229148
500-73885-2	Quality 2	TCLP	Solid	6010B	229148
500-73885-3	Quality 3	TCLP	Solid	6010B	229148
500-73885-4	Quality Soil	TCLP	Soil	6010B	229148
LB 500-228994/1-B	Method Blank	TCLP	Solid	6010B	229148
LB2 500-228998/1-B	Method Blank	TCLP	Solid	6010B	229148
LCS 500-229148/4-A	Lab Control Sample	Total/NA	Solid	6010B	229148

Analysis Batch: 229457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-1	Quality 1	TCLP	Solid	7470A	229221
500-73885-2	Quality 2	TCLP	Solid	7470A	229221
500-73885-3	Quality 3	TCLP	Solid	7470A	229221
500-73885-4	Quality Soil	TCLP	Soil	7470A	229221
LB 500-228994/1-D	Method Blank	TCLP	Solid	7470A	229221
LB2 500-228998/1-D	Method Blank	TCLP	Solid	7470A	229221
LCS 500-229221/13-A	Lab Control Sample	Total/NA	Solid	7470A	229221
MB 500-229221/12-A	Method Blank	Total/NA	Solid	7470A	229221

General Chemistry

Analysis Batch: 228828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-1	Quality 1	Total/NA	Solid	Moisture	
500-73885-2	Quality 2	Total/NA	Solid	Moisture	
500-73885-3	Quality 3	Total/NA	Solid	Moisture	
500-73885-4	Quality Soil	Total/NA	Soil	Moisture	

Analysis Batch: 228902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-1	Quality 1	Total/NA	Solid	1010	
500-73885-2	Quality 2	Total/NA	Solid	1010	

General Chemistry (Continued)

Prep Batch: 228949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-1	Quality 1	Total/NA	Solid	9010B	
500-73885-2	Quality 2	Total/NA	Solid	9010B	
500-73885-3	Quality 3	Total/NA	Solid	9010B	
500-73885-4	Quality Soil	Total/NA	Soil	9010B	
LCS 500-228949/7-A	Lab Control Sample	Total/NA	Solid	9010B	
MB 500-228949/6-A	Method Blank	Total/NA	Solid	9010B	

Analysis Batch: 229062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-1	Quality 1	Total/NA	Solid	9014	228949
500-73885-2	Quality 2	Total/NA	Solid	9014	228949
500-73885-3	Quality 3	Total/NA	Solid	9014	228949
500-73885-4	Quality Soil	Total/NA	Soil	9014	228949
LCS 500-228949/7-A	Lab Control Sample	Total/NA	Solid	9014	228949
MB 500-228949/6-A	Method Blank	Total/NA	Solid	9014	228949

Analysis Batch: 229095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-3	Quality 3	Total/NA	Solid	1010	
500-73885-4	Quality Soil	Total/NA	Soil	1010	

Analysis Batch: 229097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-1	Quality 1	Total/NA	Solid	9095A	
500-73885-2	Quality 2	Total/NA	Solid	9095A	
500-73885-3	Quality 3	Total/NA	Solid	9095A	
500-73885-4	Quality Soil	Total/NA	Soil	9095A	

Analysis Batch: 229262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-1	Quality 1	Total/NA	Solid	SM 2710F	
500-73885-2	Quality 2	Total/NA	Solid	SM 2710F	
500-73885-3	Quality 3	Total/NA	Solid	SM 2710F	
500-73885-4	Quality Soil	Total/NA	Soil	SM 2710F	

Prep Batch: 229333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-1	Quality 1	Total/NA	Solid	9030B	
500-73885-2	Quality 2	Total/NA	Solid	9030B	
500-73885-3	Quality 3	Total/NA	Solid	9030B	
500-73885-4	Quality Soil	Total/NA	Soil	9030B	
500-73885-4 MS	Quality Soil	Total/NA	Soil	9030B	
500-73885-4 MSD	Quality Soil	Total/NA	Soil	9030B	
LCS 500-229333/2-A	Lab Control Sample	Total/NA	Solid	9030B	
MB 500-229333/1-A	Method Blank	Total/NA	Solid	9030B	

Analysis Batch: 229382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-1	Quality 1	Total/NA	Solid	9034	229333
500-73885-2	Quality 2	Total/NA	Solid	9034	229333
500-73885-3	Quality 3	Total/NA	Solid	9034	229333

General Chemistry (Continued)

Analysis Batch: 229382 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-4	Quality Soil	Total/NA	Soil	9034	229333
500-73885-4 MS	Quality Soil	Total/NA	Soil	9034	229333
500-73885-4 MSD	Quality Soil	Total/NA	Soil	9034	229333
LCS 500-229333/2-A	Lab Control Sample	Total/NA	Solid	9034	229333
MB 500-229333/1-A	Method Blank	Total/NA	Solid	9034	229333

Analysis Batch: 229652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-73885-1	Quality 1	Total/NA	Solid	9045C	
500-73885-1 DU	Quality 1	Total/NA	Solid	9045C	
500-73885-2	Quality 2	Total/NA	Solid	9045C	
500-73885-3	Quality 3	Total/NA	Solid	9045C	
500-73885-4	Quality Soil	Total/NA	Soil	9045C	

Surrogate Summary

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - Concrete Repair

TestAmerica Job ID: 500-73885-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Soil — **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(75-125)	(75-120)	(75-120)	(75-120)
500-73885-4	Quality Soil	104	104	78	99

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(75-125)	(75-120)	(75-120)	(75-120)
LCS 500-229279/4	Lab Control Sample	104	102	81	100
MB 500-229279/6	Method Blank	103	104	82	100

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(75-125)	(75-120)	(75-120)	(75-120)
500-73885-1	Quality 1	100	104	82	97
500-73885-2	Quality 2	100	103	79	98
500-73885-3	Quality 3	101	105	82	92
LB 500-229217/1-A	Method Blank	99	106	80	102

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Soil — **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(50-129)	(48-110)	(20-100)	(41-110)	(20-100)	(44-132)
500-73885-4	Quality Soil	91	79	47	69	32	104

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = Terphenyl-d14 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(50-129)	(48-110)	(20-100)	(41-110)	(20-100)	(44-132)
LCS 500-229247/2-A	Lab Control Sample	89	73	45	78	32	101
MB 500-229247/1-A	Method Blank	76	70	43	70	30	98

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = Terphenyl-d14 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(50-129)	(48-110)	(20-100)	(41-110)	(20-100)	(44-132)
500-73885-1	Quality 1	94	77	42	65	30	97
500-73885-2	Quality 2	92	76	45	68	32	101
500-73885-3 - DL	Quality 3	106	84	45	74	32	111
500-73885-3	Quality 3	108	74	41	66	31	97
LB 500-228994/1-E	Method Blank	85	78	48	71	34	100
LB2 500-228998/1-E	Method Blank	74	66	36	58	26	94

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = Terphenyl-d14 (Surr)

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

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

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX2	DCB2
Lab Sample ID	Client Sample ID	(50-116)	(48-142)
500-73885-4	Quality Soil	0 D	0 D

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Surrogate Summary

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - Concrete Repair

TestAmerica Job ID: 500-73885-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

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

		Percent Surrogate Recovery (Acceptance Limits)									
		TCX2	DCB2								
Lab Sample ID	Client Sample ID	(50-116)	(48-142)								
500-73885-1	Quality 1	0 D	0 D								
500-73885-2	Quality 2	0 D	0 D								
500-73885-3	Quality 3	0 D	0 D								
LCS 500-229086/3-A	Lab Control Sample	66	94								
MB 500-229086/1-A	Method Blank	93	99								

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-229279/6
Matrix: Solid
Analysis Batch: 229279

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00050		0.0010	0.00050	mg/L			03/30/14 11:13	1
Carbon tetrachloride	<0.00050		0.0010	0.00050	mg/L			03/30/14 11:13	1
Chlorobenzene	<0.00050		0.0010	0.00050	mg/L			03/30/14 11:13	1
Chloroform	<0.00050		0.0010	0.00050	mg/L			03/30/14 11:13	1
1,2-Dichloroethane	<0.00050		0.0010	0.00050	mg/L			03/30/14 11:13	1
1,1-Dichloroethene	<0.00050		0.0010	0.00050	mg/L			03/30/14 11:13	1
Methyl Ethyl Ketone	<0.0025		0.0050	0.0025	mg/L			03/30/14 11:13	1
Tetrachloroethene	<0.00050		0.0010	0.00050	mg/L			03/30/14 11:13	1
Trichloroethene	<0.00050		0.0010	0.00050	mg/L			03/30/14 11:13	1
Vinyl chloride	<0.00050		0.0010	0.00050	mg/L			03/30/14 11:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 125*		*03/30/14 11:13*	*1*
Toluene-d8 (Surr)	*104*		*75 - 120*		*03/30/14 11:13*	*1*
4-Bromofluorobenzene (Surr)	*82*		*75 - 120*		*03/30/14 11:13*	*1*
Dibromofluoromethane	*100*		*75 - 120*		*03/30/14 11:13*	*1*

Lab Sample ID: LCS 500-229279/4
Matrix: Solid
Analysis Batch: 229279

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.0519		mg/L		104	70 - 120
Carbon tetrachloride	0.0500	0.0572		mg/L		114	70 - 125
Chlorobenzene	0.0500	0.0502		mg/L		100	70 - 120
Chloroform	0.0500	0.0502		mg/L		100	70 - 120
1,2-Dichloroethane	0.0500	0.0516		mg/L		103	69 - 120
1,1-Dichloroethene	0.0500	0.0458		mg/L		92	58 - 122
Methyl Ethyl Ketone	0.0500	0.0471		mg/L		94	54 - 138
Tetrachloroethene	0.0500	0.0521		mg/L		104	70 - 123
Trichloroethene	0.0500	0.0505		mg/L		101	70 - 120
Vinyl chloride	0.0500	0.0555		mg/L		111	62 - 138

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 125*
Toluene-d8 (Surr)	*102*		*75 - 120*
4-Bromofluorobenzene (Surr)	*81*		*75 - 120*
Dibromofluoromethane	*100*		*75 - 120*

Lab Sample ID: LB 500-229217/1-A
Matrix: Solid
Analysis Batch: 229279

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.010		0.020	0.010	mg/L			03/30/14 11:38	20
Carbon tetrachloride	<0.010		0.020	0.010	mg/L			03/30/14 11:38	20
Chlorobenzene	<0.010		0.020	0.010	mg/L			03/30/14 11:38	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB 500-229217/1-A
Matrix: Solid
Analysis Batch: 229279

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<0.010		0.020	0.010	mg/L			03/30/14 11:38	20
1,2-Dichloroethane	<0.010		0.020	0.010	mg/L			03/30/14 11:38	20
1,1-Dichloroethene	<0.010		0.020	0.010	mg/L			03/30/14 11:38	20
Methyl Ethyl Ketone	<0.050		0.10	0.050	mg/L			03/30/14 11:38	20
Tetrachloroethene	<0.010		0.020	0.010	mg/L			03/30/14 11:38	20
Trichloroethene	<0.010		0.020	0.010	mg/L			03/30/14 11:38	20
Vinyl chloride	<0.010		0.020	0.010	mg/L			03/30/14 11:38	20

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 125*		*03/30/14 11:38*	*20*
Toluene-d8 (Surr)	*106*		*75 - 120*		*03/30/14 11:38*	*20*
4-Bromofluorobenzene (Surr)	*80*		*75 - 120*		*03/30/14 11:38*	*20*
Dibromofluoromethane	*102*		*75 - 120*		*03/30/14 11:38*	*20*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-229247/1-A
Matrix: Solid
Analysis Batch: 229381

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 229247

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0020		0.0020	0.0020	mg/L		03/28/14 17:35	03/31/14 11:20	1
2,4,5-Trichlorophenol	<0.010		0.010	0.010	mg/L		03/28/14 17:35	03/31/14 11:20	1
2,4,6-Trichlorophenol	<0.0050		0.0050	0.0050	mg/L		03/28/14 17:35	03/31/14 11:20	1
2,4-Dinitrotoluene	<0.0010		0.0010	0.0010	mg/L		03/28/14 17:35	03/31/14 11:20	1
2-Methylphenol	<0.0020		0.0020	0.0020	mg/L		03/28/14 17:35	03/31/14 11:20	1
3 & 4 Methylphenol	<0.0020		0.0020	0.0020	mg/L		03/28/14 17:35	03/31/14 11:20	1
Hexachlorobenzene	<0.00050		0.00050	0.00050	mg/L		03/28/14 17:35	03/31/14 11:20	1
Hexachlorobutadiene	<0.0050		0.0050	0.0050	mg/L		03/28/14 17:35	03/31/14 11:20	1
Hexachloroethane	<0.0050		0.0050	0.0050	mg/L		03/28/14 17:35	03/31/14 11:20	1
Nitrobenzene	<0.0010		0.0010	0.0010	mg/L		03/28/14 17:35	03/31/14 11:20	1
Pentachlorophenol	<0.020		0.020	0.020	mg/L		03/28/14 17:35	03/31/14 11:20	1
Phenol	<0.0050		0.0050	0.0050	mg/L		03/28/14 17:35	03/31/14 11:20	1
Pyridine	<0.020		0.020	0.020	mg/L		03/28/14 17:35	03/31/14 11:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*76*		*50 - 129*	*03/28/14 17:35*	*03/31/14 11:20*	*1*
2-Fluorobiphenyl	*70*		*48 - 110*	*03/28/14 17:35*	*03/31/14 11:20*	*1*
2-Fluorophenol (Surr)	*43*		*20 - 100*	*03/28/14 17:35*	*03/31/14 11:20*	*1*
Nitrobenzene-d5 (Surr)	*70*		*41 - 110*	*03/28/14 17:35*	*03/31/14 11:20*	*1*
Phenol-d5 (Surr)	*30*		*20 - 100*	*03/28/14 17:35*	*03/31/14 11:20*	*1*
Terphenyl-d14 (Surr)	*98*		*44 - 132*	*03/28/14 17:35*	*03/31/14 11:20*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-229247/2-A
Matrix: Solid
Analysis Batch: 229381

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 229247

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	0.0400	0.0288		mg/L		72	33 - 100
2,4,5-Trichlorophenol	0.0400	0.0373		mg/L		93	63 - 110
2,4,6-Trichlorophenol	0.0400	0.0354		mg/L		89	63 - 110
2,4-Dinitrotoluene	0.0400	0.0384		mg/L		96	62 - 119
2-Methylphenol	0.0400	0.0298		mg/L		75	42 - 100
3 & 4 Methylphenol	0.0400	0.0277		mg/L		69	38 - 110
Hexachlorobenzene	0.0400	0.0355		mg/L		89	60 - 110
Hexachlorobutadiene	0.0400	0.0264		mg/L		66	28 - 110
Hexachloroethane	0.0400	0.0262		mg/L		66	29 - 100
Nitrobenzene	0.0400	0.0316		mg/L		79	52 - 110
Pentachlorophenol	0.0800	0.0786		mg/L		98	42 - 127
Phenol	0.0400	0.0151		mg/L		38	20 - 100
Pyridine	0.0400	<0.020		mg/L		39	10 - 100

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*89*		*50 - 129*
2-Fluorobiphenyl	*73*		*48 - 110*
2-Fluorophenol (Surr)	*45*		*20 - 100*
Nitrobenzene-d5 (Surr)	*78*		*41 - 110*
Phenol-d5 (Surr)	*32*		*20 - 100*
Terphenyl-d14 (Surr)	*101*		*44 - 132*

Lab Sample ID: LB 500-228994/1-E
Matrix: Solid
Analysis Batch: 229381

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 229247

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.020		0.020	0.020	mg/L		03/28/14 17:35	03/31/14 13:19	1
2,4,5-Trichlorophenol	<0.10		0.10	0.10	mg/L		03/28/14 17:35	03/31/14 13:19	1
2,4,6-Trichlorophenol	<0.050		0.050	0.050	mg/L		03/28/14 17:35	03/31/14 13:19	1
2,4-Dinitrotoluene	<0.010		0.010	0.010	mg/L		03/28/14 17:35	03/31/14 13:19	1
2-Methylphenol	<0.020		0.020	0.020	mg/L		03/28/14 17:35	03/31/14 13:19	1
3 & 4 Methylphenol	<0.020		0.020	0.020	mg/L		03/28/14 17:35	03/31/14 13:19	1
Hexachlorobenzene	<0.0050		0.0050	0.0050	mg/L		03/28/14 17:35	03/31/14 13:19	1
Hexachlorobutadiene	<0.050		0.050	0.050	mg/L		03/28/14 17:35	03/31/14 13:19	1
Hexachloroethane	<0.050		0.050	0.050	mg/L		03/28/14 17:35	03/31/14 13:19	1
Nitrobenzene	<0.010		0.010	0.010	mg/L		03/28/14 17:35	03/31/14 13:19	1
Pentachlorophenol	<0.20		0.20	0.20	mg/L		03/28/14 17:35	03/31/14 13:19	1
Phenol	<0.050		0.050	0.050	mg/L		03/28/14 17:35	03/31/14 13:19	1
Pyridine	<0.20		0.20	0.20	mg/L		03/28/14 17:35	03/31/14 13:19	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*85*		*50 - 129*	*03/28/14 17:35*	*03/31/14 13:19*	*1*
2-Fluorobiphenyl	*78*		*48 - 110*	*03/28/14 17:35*	*03/31/14 13:19*	*1*
2-Fluorophenol (Surr)	*48*		*20 - 100*	*03/28/14 17:35*	*03/31/14 13:19*	*1*
Nitrobenzene-d5 (Surr)	*71*		*41 - 110*	*03/28/14 17:35*	*03/31/14 13:19*	*1*
Phenol-d5 (Surr)	*34*		*20 - 100*	*03/28/14 17:35*	*03/31/14 13:19*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB 500-228994/1-E
Matrix: Solid
Analysis Batch: 229381

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 229247

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	*100*		*44 - 132*	*03/28/14 17:35*	*03/31/14 13:19*	*1*

Lab Sample ID: LB2 500-228998/1-E
Matrix: Solid
Analysis Batch: 229381

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 229247

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.020		0.020	0.020	mg/L		03/28/14 17:35	03/31/14 13:43	1
2,4,5-Trichlorophenol	<0.10		0.10	0.10	mg/L		03/28/14 17:35	03/31/14 13:43	1
2,4,6-Trichlorophenol	<0.050		0.050	0.050	mg/L		03/28/14 17:35	03/31/14 13:43	1
2,4-Dinitrotoluene	<0.010		0.010	0.010	mg/L		03/28/14 17:35	03/31/14 13:43	1
2-Methylphenol	<0.020		0.020	0.020	mg/L		03/28/14 17:35	03/31/14 13:43	1
3 & 4 Methylphenol	<0.020		0.020	0.020	mg/L		03/28/14 17:35	03/31/14 13:43	1
Hexachlorobenzene	<0.0050		0.0050	0.0050	mg/L		03/28/14 17:35	03/31/14 13:43	1
Hexachlorobutadiene	<0.050		0.050	0.050	mg/L		03/28/14 17:35	03/31/14 13:43	1
Hexachloroethane	<0.050		0.050	0.050	mg/L		03/28/14 17:35	03/31/14 13:43	1
Nitrobenzene	<0.010		0.010	0.010	mg/L		03/28/14 17:35	03/31/14 13:43	1
Pentachlorophenol	<0.20		0.20	0.20	mg/L		03/28/14 17:35	03/31/14 13:43	1
Phenol	<0.050		0.050	0.050	mg/L		03/28/14 17:35	03/31/14 13:43	1
Pyridine	<0.20		0.20	0.20	mg/L		03/28/14 17:35	03/31/14 13:43	1

Surrogate	LB2 %Recovery	LB2 Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	*74*		*50 - 129*	*03/28/14 17:35*	*03/31/14 13:43*	*1*
2-Fluorobiphenyl	*66*		*48 - 110*	*03/28/14 17:35*	*03/31/14 13:43*	*1*
2-Fluorophenol (Surr)	*36*		*20 - 100*	*03/28/14 17:35*	*03/31/14 13:43*	*1*
Nitrobenzene-d5 (Surr)	*58*		*41 - 110*	*03/28/14 17:35*	*03/31/14 13:43*	*1*
Phenol-d5 (Surr)	*26*		*20 - 100*	*03/28/14 17:35*	*03/31/14 13:43*	*1*
Terphenyl-d14 (Surr)	*94*		*44 - 132*	*03/28/14 17:35*	*03/31/14 13:43*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-229086/1-A
Matrix: Solid
Analysis Batch: 229112

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 229086

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.9		17	5.9	ug/Kg		03/27/14 19:03	03/28/14 08:23	1
PCB-1221	<7.3		17	7.3	ug/Kg		03/27/14 19:03	03/28/14 08:23	1
PCB-1232	<7.3		17	7.3	ug/Kg		03/27/14 19:03	03/28/14 08:23	1
PCB-1242	<5.5		17	5.5	ug/Kg		03/27/14 19:03	03/28/14 08:23	1
PCB-1248	<6.6		17	6.6	ug/Kg		03/27/14 19:03	03/28/14 08:23	1
PCB-1254	<3.6		17	3.6	ug/Kg		03/27/14 19:03	03/28/14 08:23	1
PCB-1260	<8.2		17	8.2	ug/Kg		03/27/14 19:03	03/28/14 08:23	1
Polychlorinated biphenyls, Total	<3.2		17	3.2	ug/Kg		03/27/14 19:03	03/28/14 08:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*93*		*50 - 116*	*03/27/14 19:03*	*03/28/14 08:23*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 500-229086/1-A
Matrix: Solid
Analysis Batch: 229112

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 229086

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	99		48 - 142	03/27/14 19:03	03/28/14 08:23	1

Lab Sample ID: LCS 500-229086/3-A
Matrix: Solid
Analysis Batch: 229112

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 229086

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	167	176		ug/Kg		106	59 - 110
PCB-1260	167	195		ug/Kg		117	69 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	66		50 - 116
DCB Decachlorobiphenyl	94		48 - 142

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-229148/4-A
Matrix: Solid
Analysis Batch: 229343

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 229148

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.0970		mg/L		97	80 - 120
Barium	0.500	0.477	J	mg/L		95	80 - 120
Cadmium	0.0500	0.0491		mg/L		98	80 - 120
Chromium	0.200	0.204		mg/L		102	80 - 120
Copper	0.250	0.251		mg/L		101	80 - 120
Lead	0.100	0.102		mg/L		102	80 - 120
Nickel	0.500	0.506		mg/L		101	80 - 120
Selenium	0.100	0.0879		mg/L		88	80 - 120
Silver	0.0500	0.0487		mg/L		97	80 - 120
Zinc	0.500	0.511		mg/L		102	80 - 120

Lab Sample ID: LB 500-228994/1-B
Matrix: Solid
Analysis Batch: 229343

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 229148

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		03/28/14 08:15	03/28/14 15:22	1
Barium	<0.050		0.50	0.050	mg/L		03/28/14 08:15	03/28/14 15:22	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		03/28/14 08:15	03/28/14 15:22	1
Chromium	<0.010		0.025	0.010	mg/L		03/28/14 08:15	03/28/14 15:22	1
Copper	<0.010		0.025	0.010	mg/L		03/28/14 08:15	03/28/14 15:22	1
Lead	<0.0075		0.050	0.0075	mg/L		03/28/14 08:15	03/28/14 15:22	1
Nickel	<0.010		0.025	0.010	mg/L		03/28/14 08:15	03/28/14 15:22	1
Selenium	<0.010		0.050	0.010	mg/L		03/28/14 08:15	03/28/14 15:22	1
Silver	<0.010		0.025	0.010	mg/L		03/28/14 08:15	03/28/14 15:22	1
Zinc	<0.020		0.10	0.020	mg/L		03/28/14 08:15	03/28/14 15:22	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LB2 500-228998/1-B — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 229343 — **Prep Batch: 229148**

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		03/28/14 08:15	03/28/14 15:28	1
Barium	<0.050		0.50	0.050	mg/L		03/28/14 08:15	03/28/14 15:28	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		03/28/14 08:15	03/28/14 15:28	1
Chromium	<0.010		0.025	0.010	mg/L		03/28/14 08:15	03/28/14 15:28	1
Copper	<0.010		0.025	0.010	mg/L		03/28/14 08:15	03/28/14 15:28	1
Lead	<0.0075		0.050	0.0075	mg/L		03/28/14 08:15	03/28/14 15:28	1
Nickel	<0.010		0.025	0.010	mg/L		03/28/14 08:15	03/28/14 15:28	1
Selenium	<0.010		0.050	0.010	mg/L		03/28/14 08:15	03/28/14 15:28	1
Silver	<0.010		0.025	0.010	mg/L		03/28/14 08:15	03/28/14 15:28	1
Zinc	<0.020		0.10	0.020	mg/L		03/28/14 08:15	03/28/14 15:28	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-229221/12-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 229457 — **Prep Batch: 229221**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000020		0.00020	0.000020	mg/L		03/28/14 14:57	03/31/14 09:11	1

Lab Sample ID: LCS 500-229221/13-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 229457 — **Prep Batch: 229221**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00224		mg/L		112	80 - 120

Lab Sample ID: LB 500-228994/1-D — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 229457 — **Prep Batch: 229221**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000020		0.00020	0.000020	mg/L		03/28/14 14:57	03/31/14 09:21	1

Lab Sample ID: LB2 500-228998/1-D — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 229457 — **Prep Batch: 229221**

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000020		0.00020	0.000020	mg/L		03/28/14 14:57	03/31/14 09:23	1

Method: 9014 - Cyanide

Lab Sample ID: MB 500-228949/6-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 229062 — **Prep Batch: 228949**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.17		0.50	0.17	mg/Kg		03/27/14 09:48	03/27/14 15:47	1

Lab Sample ID: LCS 500-228949/7-A
Matrix: Solid
Analysis Batch: 229062

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 228949

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	5.00	5.17		mg/Kg		103	80 - 120

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 500-229333/1-A
Matrix: Solid
Analysis Batch: 229382

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 229333

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<4.8		10	4.8	mg/Kg		03/31/14 07:45	03/31/14 09:50	1

Lab Sample ID: LCS 500-229333/2-A
Matrix: Solid
Analysis Batch: 229382

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 229333

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	185	183		mg/Kg		99	80 - 120

Lab Sample ID: 500-73885-4 MS
Matrix: Soil
Analysis Batch: 229382

Client Sample ID: Quality Soil
Prep Type: Total/NA
Prep Batch: 229333

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	7.4	J	172	155		mg/Kg		86	75 - 125

Lab Sample ID: 500-73885-4 MSD
Matrix: Soil
Analysis Batch: 229382

Client Sample ID: Quality Soil
Prep Type: Total/NA
Prep Batch: 229333

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfide	7.4	J	185	168		mg/Kg		87	75 - 125	8	20

Method: 9045C - pH

Lab Sample ID: 500-73885-1 DU
Matrix: Solid
Analysis Batch: 229652

Client Sample ID: Quality 1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	12.5		12.46		SU		0.08	

Lab Chronicle

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - Concrete Repair

TestAmerica Job ID: 500-73885-1

Client Sample ID: Quality 1

Lab Sample ID: 500-73885-1

Date Collected: 03/24/14 12:30

Matrix: Solid

Date Received: 03/26/14 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			229217	03/28/14 14:35	RR1	TAL CHI
TCLP	Analysis	8260B		20	229279	03/30/14 13:41	BDA	TAL CHI
TCLP	Leach	1311			228998	03/27/14 14:00	MJP	TAL CHI
TCLP	Prep	3510C			229247	03/28/14 17:35	JP1	TAL CHI
TCLP	Analysis	8270D		1	229381	03/31/14 19:16	PMF	TAL CHI
Total/NA	Prep	3541			229086	03/27/14 19:03	DEA	TAL CHI
Total/NA	Analysis	8082		1000	229112	03/28/14 15:41	GMO	TAL CHI
TCLP	Leach	1311			228998	03/27/14 14:00	MJP	TAL CHI
TCLP	Prep	3010A			229148	03/28/14 08:15	MJP	TAL CHI
TCLP	Analysis	6010B		1	229343	03/28/14 15:53	LEG	TAL CHI
TCLP	Leach	1311			228998	03/27/14 14:00	MJP	TAL CHI
TCLP	Prep	7470A			229221	03/28/14 14:57	PFK	TAL CHI
TCLP	Analysis	7470A		1	229457	03/31/14 09:25	RLL	TAL CHI
Total/NA	Analysis	1010		1	228902		NLR	TAL CHI
					(Start)	03/26/14 22:02		
					(End)	03/26/14 22:59		
Total/NA	Prep	9010B			228949	03/27/14 09:48	BIS	TAL CHI
Total/NA	Analysis	9014		1	229062		BIS	TAL CHI
					(Start)	03/27/14 15:50		
					(End)	03/27/14 15:51		
Total/NA	Prep	9030B			229333	03/31/14 08:15	JG	TAL CHI
Total/NA	Analysis	9034		1	229382	03/31/14 09:58	JG	TAL CHI
Total/NA	Analysis	9045C		1	229652		JLE	TAL CHI
					(Start)	04/01/14 14:15		
					(End)	04/01/14 14:19		
Total/NA	Analysis	9095A		1	229097		NLR	TAL CHI
					(Start)	03/27/14 22:55		
					(End)	03/27/14 23:00		
Total/NA	Analysis	Moisture		1	228828	03/26/14 15:54	LWN	TAL CHI
Total/NA	Analysis	SM 2710F		1	229262	03/28/14 21:39	SJS	TAL CHI

Client Sample ID: Quality 2

Lab Sample ID: 500-73885-2

Date Collected: 03/24/14 13:00

Matrix: Solid

Date Received: 03/26/14 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			229217	03/28/14 14:35	RR1	TAL CHI
TCLP	Analysis	8260B		20	229279	03/30/14 14:06	BDA	TAL CHI
TCLP	Leach	1311			228998	03/27/14 14:00	MJP	TAL CHI
TCLP	Prep	3510C			229247	03/28/14 17:35	JP1	TAL CHI
TCLP	Analysis	8270D		1	229381	03/31/14 19:40	PMF	TAL CHI
Total/NA	Prep	3541			229086	03/27/14 19:03	DEA	TAL CHI
Total/NA	Analysis	8082		50	229112	03/28/14 15:00	GMO	TAL CHI
TCLP	Leach	1311			228998	03/27/14 14:00	MJP	TAL CHI

Client Sample ID: Quality 2

Lab Sample ID: 500-73885-2

Date Collected: 03/24/14 13:00

Matrix: Solid

Date Received: 03/26/14 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Prep	3010A			229148	03/28/14 08:15	MJP	TAL CHI
TCLP	Analysis	6010B		1	229343	03/28/14 15:59	LEG	TAL CHI
TCLP	Leach	1311			228998	03/27/14 14:00	MJP	TAL CHI
TCLP	Prep	7470A			229221	03/28/14 14:57	PFK	TAL CHI
TCLP	Analysis	7470A		1	229457	03/31/14 09:27	RLL	TAL CHI
Total/NA	Analysis	1010		1	228902		NLR	TAL CHI
					(Start)	03/26/14 23:56		
					(End)	03/27/14 00:53		
Total/NA	Prep	9010B			228949	03/27/14 09:48	BIS	TAL CHI
Total/NA	Analysis	9014		1	229062		BIS	TAL CHI
					(Start)	03/27/14 15:51		
					(End)	03/27/14 15:51		
Total/NA	Prep	9030B			229333	03/31/14 08:25	JG	TAL CHI
Total/NA	Analysis	9034		1	229382	03/31/14 10:01	JG	TAL CHI
Total/NA	Analysis	9045C		1	229652		JLE	TAL CHI
					(Start)	04/01/14 14:24		
					(End)	04/01/14 14:28		
Total/NA	Analysis	9095A		1	229097		NLR	TAL CHI
					(Start)	03/27/14 22:55		
					(End)	03/27/14 23:00		
Total/NA	Analysis	Moisture		1	228828	03/26/14 15:54	LWN	TAL CHI
Total/NA	Analysis	SM 2710F		1	229262	03/28/14 21:48	SJS	TAL CHI

Client Sample ID: Quality 3

Lab Sample ID: 500-73885-3

Date Collected: 03/24/14 13:45

Matrix: Solid

Date Received: 03/26/14 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			229217	03/28/14 14:35	RR1	TAL CHI
TCLP	Analysis	8260B		20	229279	03/30/14 14:31	BDA	TAL CHI
TCLP	Leach	1311	DL		228998	03/27/14 14:00	MJP	TAL CHI
TCLP	Prep	3510C	DL		229247	03/28/14 17:35	JP1	TAL CHI
TCLP	Analysis	8270D	DL	5	229541	04/01/14 12:41	WDS	TAL CHI
TCLP	Leach	1311			228998	03/27/14 14:00	MJP	TAL CHI
TCLP	Prep	3510C			229247	03/28/14 17:35	JP1	TAL CHI
TCLP	Analysis	8270D		1	229541	04/01/14 14:15	WDS	TAL CHI
Total/NA	Prep	3541			229086	03/27/14 19:03	DEA	TAL CHI
Total/NA	Analysis	8082		500	229112	03/28/14 15:14	GMO	TAL CHI
TCLP	Leach	1311			228998	03/27/14 14:00	MJP	TAL CHI
TCLP	Prep	3010A			229148	03/28/14 08:15	MJP	TAL CHI
TCLP	Analysis	6010B		1	229343	03/28/14 16:20	LEG	TAL CHI
TCLP	Leach	1311			228998	03/27/14 14:00	MJP	TAL CHI
TCLP	Prep	7470A			229221	03/28/14 14:57	PFK	TAL CHI
TCLP	Analysis	7470A		1	229457	03/31/14 09:33	RLL	TAL CHI

Client Sample ID: Quality 3

Lab Sample ID: 500-73885-3

Date Collected: 03/24/14 13:45

Matrix: Solid

Date Received: 03/26/14 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	1010		1	229095		NLR	TAL CHI
					(Start)	03/27/14 15:15		
					(End)	03/27/14 16:37		
Total/NA	Prep	9010B			228949	03/27/14 09:48	BIS	TAL CHI
Total/NA	Analysis	9014		1	229062		BIS	TAL CHI
					(Start)	03/27/14 15:51		
					(End)	03/27/14 15:51		
Total/NA	Prep	9030B			229333	03/31/14 08:35	JG	TAL CHI
Total/NA	Analysis	9034		1	229382	03/31/14 10:03	JG	TAL CHI
Total/NA	Analysis	9045C		1	229652		JLE	TAL CHI
					(Start)	04/01/14 14:28		
					(End)	04/01/14 14:33		
Total/NA	Analysis	9095A		1	229097		NLR	TAL CHI
					(Start)	03/27/14 22:55		
					(End)	03/27/14 23:00		
Total/NA	Analysis	Moisture		1	228828	03/26/14 15:54	LWN	TAL CHI
Total/NA	Analysis	SM 2710F		1	229262	03/28/14 21:57	SJS	TAL CHI

Client Sample ID: Quality Soil

Lab Sample ID: 500-73885-4

Date Collected: 03/25/14 08:30

Matrix: Soil

Date Received: 03/26/14 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			229217	03/28/14 14:35	RR1	TAL CHI
TCLP	Analysis	8260B		20	229279	03/30/14 14:55	BDA	TAL CHI
TCLP	Leach	1311			228994	03/27/14 14:00	MJP	TAL CHI
TCLP	Prep	3510C			229247	03/28/14 17:35	JP1	TAL CHI
TCLP	Analysis	8270D		1	229381	03/31/14 20:28	PMF	TAL CHI
Total/NA	Prep	3541			229086	03/27/14 19:03	DEA	TAL CHI
Total/NA	Analysis	8082		100	229112	03/28/14 15:27	GMO	TAL CHI
TCLP	Leach	1311			228994	03/27/14 14:00	MJP	TAL CHI
TCLP	Prep	3010A			229148	03/28/14 08:15	MJP	TAL CHI
TCLP	Analysis	6010B		1	229343	03/28/14 16:26	LEG	TAL CHI
TCLP	Leach	1311			228994	03/27/14 14:00	MJP	TAL CHI
TCLP	Prep	7470A			229221	03/28/14 14:57	PFK	TAL CHI
TCLP	Analysis	7470A		1	229457	03/31/14 09:35	RLL	TAL CHI
Total/NA	Analysis	1010		1	229095		NLR	TAL CHI
					(Start)	03/27/14 16:37		
					(End)	03/27/14 18:00		
Total/NA	Prep	9010B			228949	03/27/14 09:48	BIS	TAL CHI
Total/NA	Analysis	9014		1	229062		BIS	TAL CHI
					(Start)	03/27/14 15:51		
					(End)	03/27/14 15:52		
Total/NA	Prep	9030B			229333	03/31/14 08:45	JG	TAL CHI
Total/NA	Analysis	9034		1	229382	03/31/14 10:06	JG	TAL CHI

Lab Chronicle

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - Concrete Repair

TestAmerica Job ID: 500-73885-1

Client Sample ID: Quality Soil

Lab Sample ID: 500-73885-4

Date Collected: 03/25/14 08:30

Matrix: Soil

Date Received: 03/26/14 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9045C		1	229652		JLE	TAL CHI
					(Start)	04/01/14 14:33		
					(End)	04/01/14 14:38		
Total/NA	Analysis	9095A		1	229097		NLR	TAL CHI
					(Start)	03/27/14 22:55		
					(End)	03/27/14 23:00		
Total/NA	Analysis	Moisture		1	228828	03/26/14 15:54	LWN	TAL CHI
Total/NA	Analysis	SM 2710F		1	229262	03/28/14 22:06	SJS	TAL CHI

Laboratory References:

SFAL = SF Analytical Laboratories, 2345 South 170th Street, New Berlin, WI 53151

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

Certification Summary

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - Concrete Repair

TestAmerica Job ID: 500-73885-1

Laboratory: TestAmerica Chicago

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	999580010	08-31-14

TestAmerica

THE LEADER IN ENVIRONMENT

2417 Bond Street, University Park, IL
Phone: 708.534.5200 Fax: 708.

500-73885 COC

(optional)

Report To
Contact: Alina Walcek
Company: Madison Kipp
Address: 201 Waubesa St.
Address: Madison, WI 53704
Phone: 608-242-5200
Fax:
E-Mail: awalcek@madison-kipp.com

(optional)

Bill To
Contact: Ellen Riese
Company: Madison Kipp
Address: PO Box 8043
Address: Madison WI 53708
Phone: 608-242-5230
Fax:
PO#/Reference# 0000279000

Chain of Custody Record

Lab Job #: 500-73885

Chain of Custody Number:

Page 1 of 1

Temperature °C of Cooler: 0.9

Client	Madison Kipp
Project Name	Concrete Repair
Project Location/State	Madison, WI
Sampler	A Walcek
Client Project #	
Lab Project #	
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: Protocol B	Comments
1		Quality 1	3/24/14	12:30	1	O	—	X	Concrete
2		Quality 2	3/24/14	13:00	1	O		X	Concrete
3		Quality 3	3/24/14	13:45	1	O		X	Concrete
4		Quality Soil	3/25/14	8:30	1	S		X	

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days X Other ASAP
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
Alina Walcek	MKC	3/26/14	12:00	JLT	TA	3/26/14	0950
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped UPS
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-4124-508 (1209)

4/2/2014

Login Sample Receipt Checklist

Client: Madison-Kipp Corporation

Job Number: 500-73885-1

Login Number: 73885

List Source: TestAmerica Chicago

List Number: 1

Creator: Lunt, Jeff T

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	0.9
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
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.	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	

Madison-Kipp Corporation

Post Office Box 8043
Madison, WI 53708-8043

201 Waubesa Street
Madison, WI 53704-5728

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

Subject:
Interior Building Maintenance - North of Center Aisle, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin. Facility ID No. 113125320, BRRTS No. 02-13-001569

Dear Mr. Schmoller:

On May 28, 2014, a representative of Madison-Kipp contacted you regarding the interior building maintenance required for floor repair within the facility located at 201 Waubesa Street in Madison, Wisconsin. As part of the floor repair, there is an area of concrete that will be removed and replaced, and soil removal that will be completed. This letter documents the initial sampling activities and material handling of the soil and concrete.

Four in-place concrete samples (End Aisle 1, 2, 3, and Aisle Repair 4) were collected by Madison-Kipp on May 19, 2014 and submitted to Test America for PCBs and metals analysis to characterize the materials for disposal. The approximate locations of the samples are presented on the attached figures.

The analytical results of the sampling indicated that concentrations of PCBs in concrete were not detected above the TSCA disposal limit. The concrete PCB results are summarized in Table 1. Copies of the laboratory reports are attached for reference. Soil to be removed was sampled by ARCADIS in October 2012 (B-145), February 2014 (B-193) and January 2014 (B-185). The PCB soil results are summarized in the Supplemental Building Interior Polychlorinated Biphenyl Work Plan Subsurface Investigation Summary (ARCADIS 2014) and the Site Investigation and Interim Actions Report (ARCADIS 2013). The PCB concentrations in soil were not detected above the TSCA disposal limit. The concrete and soil will be profiled with Advanced Disposal for non-hazardous disposal.

Should building maintenance be required within the Madison-Kipp building in the future, similar methods will be used for appropriate characterization and disposal of materials. Documentation will be provided to the WDNR.

MKC
Madison-Kipp Corporation

Post Office Box 8043
Madison, WI 53708-8043

201 Waubesa Street
Madison, WI 53704-5728

We trust that this information meets your needs. Should you require additional information, please contact one of the undersigned.

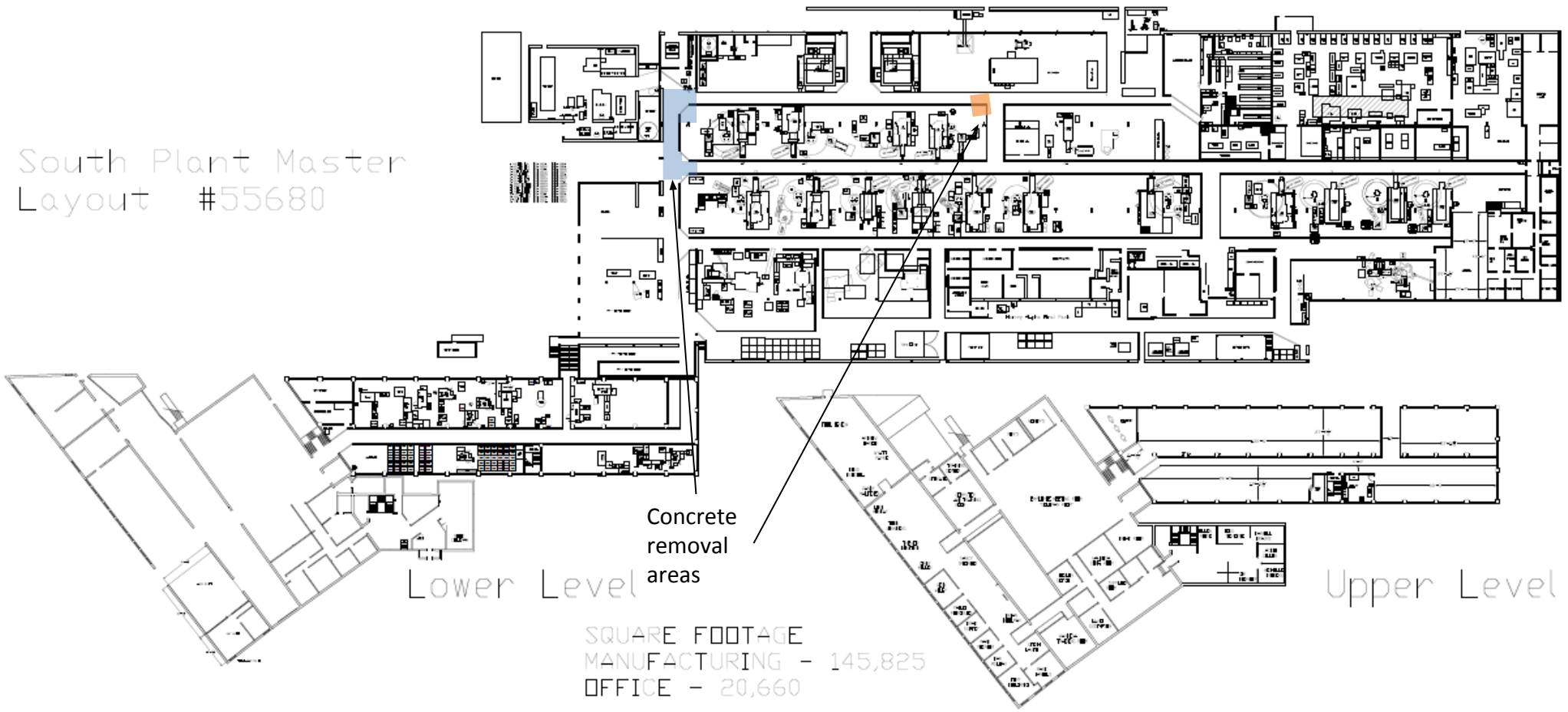
Madison Kipp Corporation

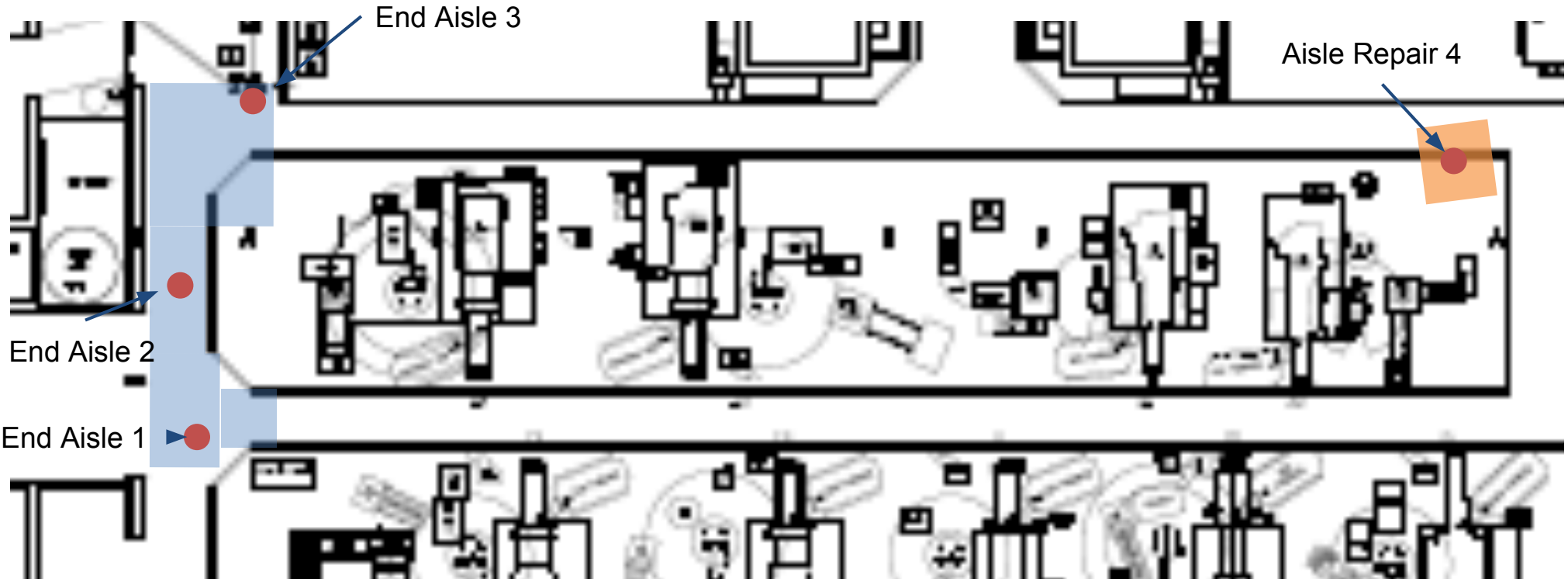
Alina Walcek

Alina Walcek
Environmental and Safety Coordinator

Copies:
David Crass - Michael, Best, & Friedrich LLP
Jennine Trask – ARCADIS US-Inc.
Ken Zolnierczyk – US EPA

Attachments:
Table 1
Figure
Laboratory reports


South Plant Master
Layout #55680
Concrete
removal
areas
Lower Level
Upper Level
SQUARE FOOTAGE
MANUFACTURING - 145,825
OFFICE - 20,660



LEGEND

- CONCRETE SAMPLE
- AREA TO BE REMOVED (~60’ X 20’)
- AREA TO BE REMOVED (~10’ X 10’)

Table 1. Summary of Concrete and Soil Analytical Results, Building Interior Modifications, Madison-Kipp Corporation, Madison, Wisconsin

Boring Sample Date	Industrial Direct Contact RCL	TSCA Disposal Limit	End Aisle 1 5/19/2014	End Aisle 2 5/19/2014	End Aisle 3 5/19/2014	Aisle Repair 4 5/19/2014
PCBs						
Aroclor-1242	0.744	NE	0.16	0.23	0.23	0.3
Total Detected PCBs	NE	50	0.16	0.23	0.23	0.3

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

100	Exceeds the WDNR's industrial direct contact residual contaminant level.
100	Exceeds the Toxic Substances Control Act disposal limit.
<	Constituent not detected above noted laboratory detection limit.
EPA	United States Environmental Protection Agency
NE	Criteria not established.
ND	Total PCBs less than the laboratory detection limit.
PCBs	Polychlorinated biphenyls.
RCL	Residual contaminant level.
TSCA	Toxic Substance Control Act.

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: 500-77275-1
Client Project/Site: MadisonKipp - Concrete Repair End/Aisle

For:
Madison-Kipp Corporation
201 Waubesa Street
Madison, Wisconsin 53704

Attn: Alina Walcek

Authorized for release by:
5/27/2014 7:10:22 AM

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.

Table of Contents

Case Narrative

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - Concrete Repair End/Aisle

TestAmerica Job ID: 500-77275-1

Job ID: 500-77275-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-77275-1

Comments
No additional comments.

Receipt
The samples were received on 5/20/2014 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.3º C.

GC Semi VOA
Method(s) 8082: The following samples were diluted due to the abundance of non-target analytes: Aisle Repair 4 (500-77275-2), DCM #9 (500-77275-1), End Aisle 1 (500-77275-5), End Aisle 2 (500-77275-4), End Aisle 3 (500-77275-3). 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.

Metals
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: Madison-Kipp Corporation
Project/Site: MadisonKipp - Concrete Repair End/Aisle

TestAmerica Job ID: 500-77275-1

Client Sample ID: DCM #9 — Lab Sample ID: 500-77275-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	310		81	27	ug/Kg	5		8082	Total/NA
Arsenic	2.3		0.88	0.17	mg/Kg	1		6010B	Total/NA
Barium	31		0.88	0.094	mg/Kg	1		6010B	Total/NA
Cadmium	0.16	J	0.18	0.022	mg/Kg	1		6010B	Total/NA
Chromium	15		0.88	0.10	mg/Kg	1		6010B	Total/NA
Lead	4.1		0.44	0.13	mg/Kg	1		6010B	Total/NA
Silver	0.11	J	0.44	0.032	mg/Kg	1		6010B	Total/NA

Client Sample ID: Aisle Repair 4 — Lab Sample ID: 500-77275-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	300		80	26	ug/Kg	5		8082	Total/NA
Arsenic	2.0		0.87	0.17	mg/Kg	1		6010B	Total/NA
Barium	48		0.87	0.093	mg/Kg	1		6010B	Total/NA
Cadmium	0.21		0.17	0.022	mg/Kg	1		6010B	Total/NA
Chromium	10		0.87	0.10	mg/Kg	1		6010B	Total/NA
Lead	3.9		0.44	0.13	mg/Kg	1		6010B	Total/NA
Silver	0.069	J	0.44	0.032	mg/Kg	1		6010B	Total/NA

Client Sample ID: End Aisle 3 — Lab Sample ID: 500-77275-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	230		83	27	ug/Kg	5		8082	Total/NA
Arsenic	2.4		0.89	0.18	mg/Kg	1		6010B	Total/NA
Barium	40		0.89	0.096	mg/Kg	1		6010B	Total/NA
Cadmium	0.22		0.18	0.023	mg/Kg	1		6010B	Total/NA
Chromium	16		0.89	0.10	mg/Kg	1		6010B	Total/NA
Lead	5.8		0.45	0.13	mg/Kg	1		6010B	Total/NA
Silver	0.066	J	0.45	0.032	mg/Kg	1		6010B	Total/NA

Client Sample ID: End Aisle 2 — Lab Sample ID: 500-77275-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	230		81	27	ug/Kg	5		8082	Total/NA
Arsenic	1.9		0.88	0.17	mg/Kg	1		6010B	Total/NA
Barium	38		0.88	0.094	mg/Kg	1		6010B	Total/NA
Cadmium	0.085	J	0.18	0.022	mg/Kg	1		6010B	Total/NA
Chromium	20		0.88	0.10	mg/Kg	1		6010B	Total/NA
Lead	2.7		0.44	0.13	mg/Kg	1		6010B	Total/NA

Client Sample ID: End Aisle 1 — Lab Sample ID: 500-77275-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	160		81	27	ug/Kg	5		8082	Total/NA
Arsenic	2.4		0.96	0.19	mg/Kg	1		6010B	Total/NA
Barium	42		0.96	0.10	mg/Kg	1		6010B	Total/NA
Cadmium	0.12	J	0.19	0.024	mg/Kg	1		6010B	Total/NA
Chromium	13		0.96	0.11	mg/Kg	1		6010B	Total/NA
Lead	2.9		0.48	0.14	mg/Kg	1		6010B	Total/NA
Silver	0.040	J	0.48	0.035	mg/Kg	1		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - Concrete Repair End/Aisle

TestAmerica Job ID: 500-77275-1

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
7471A	Mercury (CVAA)	SW846	TAL CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Sample Summary

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - Concrete Repair End/Aisle

TestAmerica Job ID: 500-77275-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-77275-1	DCM #9	Solid	05/19/14 09:00	05/20/14 10:00
500-77275-2	Aisle Repair 4	Solid	05/19/14 09:30	05/20/14 10:00
500-77275-3	End Aisle 3	Solid	05/19/14 10:00	05/20/14 10:00
500-77275-4	End Aisle 2	Solid	05/19/14 10:30	05/20/14 10:00
500-77275-5	End Aisle 1	Solid	05/19/14 11:00	05/20/14 10:00

Client Sample ID: DCM #9

Lab Sample ID: 500-77275-1

Date Collected: 05/19/14 09:00
Matrix: Solid
Date Received: 05/20/14 10:00

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<29		81	29	ug/Kg		05/22/14 17:54	05/23/14 11:39	5
PCB-1221	<36		81	36	ug/Kg		05/22/14 17:54	05/23/14 11:39	5
PCB-1232	<35		81	35	ug/Kg		05/22/14 17:54	05/23/14 11:39	5
PCB-1242	**310**		81	27	ug/Kg		05/22/14 17:54	05/23/14 11:39	5
PCB-1248	<32		81	32	ug/Kg		05/22/14 17:54	05/23/14 11:39	5
PCB-1254	<17		81	17	ug/Kg		05/22/14 17:54	05/23/14 11:39	5
PCB-1260	<40		81	40	ug/Kg		05/22/14 17:54	05/23/14 11:39	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*82*		*50 - 116*	*05/22/14 17:54*	*05/23/14 11:39*	*5*
DCB Decachlorobiphenyl	*65*		*48 - 142*	*05/22/14 17:54*	*05/23/14 11:39*	*5*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2.3**		0.88	0.17	mg/Kg		05/20/14 16:00	05/21/14 12:48	1
Barium	**31**		0.88	0.094	mg/Kg		05/20/14 16:00	05/21/14 12:48	1
Cadmium	**0.16**	**J**	0.18	0.022	mg/Kg		05/20/14 16:00	05/21/14 12:48	1
Chromium	**15**		0.88	0.10	mg/Kg		05/20/14 16:00	05/21/14 12:48	1
Lead	**4.1**		0.44	0.13	mg/Kg		05/20/14 16:00	05/21/14 12:48	1
Selenium	<0.31		0.88	0.31	mg/Kg		05/20/14 16:00	05/21/14 12:48	1
Silver	**0.11**	**J**	0.44	0.032	mg/Kg		05/20/14 16:00	05/21/14 12:48	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<6.0		15	6.0	ug/Kg		05/21/14 15:00	05/22/14 11:07	1

Client Sample ID: Aisle Repair 4

Lab Sample ID: 500-77275-2

Date Collected: 05/19/14 09:30
Matrix: Solid
Date Received: 05/20/14 10:00

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<28		80	28	ug/Kg		05/22/14 17:54	05/23/14 11:53	5
PCB-1221	<35		80	35	ug/Kg		05/22/14 17:54	05/23/14 11:53	5
PCB-1232	<35		80	35	ug/Kg		05/22/14 17:54	05/23/14 11:53	5
PCB-1242	**300**		80	26	ug/Kg		05/22/14 17:54	05/23/14 11:53	5
PCB-1248	<31		80	31	ug/Kg		05/22/14 17:54	05/23/14 11:53	5
PCB-1254	<17		80	17	ug/Kg		05/22/14 17:54	05/23/14 11:53	5
PCB-1260	<39		80	39	ug/Kg		05/22/14 17:54	05/23/14 11:53	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*87*		*50 - 116*	*05/22/14 17:54*	*05/23/14 11:53*	*5*
DCB Decachlorobiphenyl	*93*		*48 - 142*	*05/22/14 17:54*	*05/23/14 11:53*	*5*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2.0**		0.87	0.17	mg/Kg		05/20/14 16:00	05/21/14 13:09	1
Barium	**48**		0.87	0.093	mg/Kg		05/20/14 16:00	05/21/14 13:09	1
Cadmium	**0.21**		0.17	0.022	mg/Kg		05/20/14 16:00	05/21/14 13:09	1
Chromium	**10**		0.87	0.10	mg/Kg		05/20/14 16:00	05/21/14 13:09	1
Lead	**3.9**		0.44	0.13	mg/Kg		05/20/14 16:00	05/21/14 13:09	1

Client Sample ID: Aisle Repair 4

Lab Sample ID: 500-77275-2

Date Collected: 05/19/14 09:30
Matrix: Solid
Date Received: 05/20/14 10:00

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.31		0.87	0.31	mg/Kg		05/20/14 16:00	05/21/14 13:09	1
Silver	**0.069**	**J**	0.44	0.032	mg/Kg		05/20/14 16:00	05/21/14 13:09	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<5.9		15	5.9	ug/Kg		05/21/14 15:00	05/22/14 10:02	1

Client Sample ID: End Aisle 3

Lab Sample ID: 500-77275-3

Date Collected: 05/19/14 10:00
Matrix: Solid
Date Received: 05/20/14 10:00

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<29		83	29	ug/Kg		05/22/14 17:54	05/23/14 12:07	5
PCB-1221	<36		83	36	ug/Kg		05/22/14 17:54	05/23/14 12:07	5
PCB-1232	<36		83	36	ug/Kg		05/22/14 17:54	05/23/14 12:07	5
PCB-1242	**230**		83	27	ug/Kg		05/22/14 17:54	05/23/14 12:07	5
PCB-1248	<33		83	33	ug/Kg		05/22/14 17:54	05/23/14 12:07	5
PCB-1254	<18		83	18	ug/Kg		05/22/14 17:54	05/23/14 12:07	5
PCB-1260	<41		83	41	ug/Kg		05/22/14 17:54	05/23/14 12:07	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*91*		*50 - 116*	*05/22/14 17:54*	*05/23/14 12:07*	*5*
DCB Decachlorobiphenyl	*85*		*48 - 142*	*05/22/14 17:54*	*05/23/14 12:07*	*5*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2.4**		0.89	0.18	mg/Kg		05/20/14 16:00	05/21/14 13:15	1
Barium	**40**		0.89	0.096	mg/Kg		05/20/14 16:00	05/21/14 13:15	1
Cadmium	**0.22**		0.18	0.023	mg/Kg		05/20/14 16:00	05/21/14 13:15	1
Chromium	**16**		0.89	0.10	mg/Kg		05/20/14 16:00	05/21/14 13:15	1
Lead	**5.8**		0.45	0.13	mg/Kg		05/20/14 16:00	05/21/14 13:15	1
Selenium	<0.32		0.89	0.32	mg/Kg		05/20/14 16:00	05/21/14 13:15	1
Silver	**0.066**	**J**	0.45	0.032	mg/Kg		05/20/14 16:00	05/21/14 13:15	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<6.5		17	6.5	ug/Kg		05/21/14 15:00	05/22/14 10:04	1

Client Sample ID: End Aisle 2

Lab Sample ID: 500-77275-4

Date Collected: 05/19/14 10:30
Matrix: Solid
Date Received: 05/20/14 10:00

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<29		81	29	ug/Kg		05/22/14 17:54	05/23/14 12:20	5
PCB-1221	<36		81	36	ug/Kg		05/22/14 17:54	05/23/14 12:20	5
PCB-1232	<35		81	35	ug/Kg		05/22/14 17:54	05/23/14 12:20	5
PCB-1242	**230**		81	27	ug/Kg		05/22/14 17:54	05/23/14 12:20	5
PCB-1248	<32		81	32	ug/Kg		05/22/14 17:54	05/23/14 12:20	5
PCB-1254	<17		81	17	ug/Kg		05/22/14 17:54	05/23/14 12:20	5

Client Sample ID: End Aisle 2

Date Collected: 05/19/14 10:30
Date Received: 05/20/14 10:00

Lab Sample ID: 500-77275-4
Matrix: Solid

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	<40		81	40	ug/Kg		05/22/14 17:54	05/23/14 12:20	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*81*		*50 - 116*	*05/22/14 17:54*	*05/23/14 12:20*	*5*
DCB Decachlorobiphenyl	*58*		*48 - 142*	*05/22/14 17:54*	*05/23/14 12:20*	*5*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**1.9**		0.88	0.17	mg/Kg		05/20/14 16:00	05/21/14 13:22	1
Barium	**38**		0.88	0.094	mg/Kg		05/20/14 16:00	05/21/14 13:22	1
Cadmium	**0.085**	**J**	0.18	0.022	mg/Kg		05/20/14 16:00	05/21/14 13:22	1
Chromium	**20**		0.88	0.10	mg/Kg		05/20/14 16:00	05/21/14 13:22	1
Lead	**2.7**		0.44	0.13	mg/Kg		05/20/14 16:00	05/21/14 13:22	1
Selenium	<0.31		0.88	0.31	mg/Kg		05/20/14 16:00	05/21/14 13:22	1
Silver	<0.032		0.44	0.032	mg/Kg		05/20/14 16:00	05/21/14 13:22	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<5.8		15	5.8	ug/Kg		05/21/14 15:00	05/22/14 10:10	1

Client Sample ID: End Aisle 1

Date Collected: 05/19/14 11:00
Date Received: 05/20/14 10:00

Lab Sample ID: 500-77275-5
Matrix: Solid

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<29		81	29	ug/Kg		05/22/14 17:54	05/23/14 12:34	5
PCB-1221	<35		81	35	ug/Kg		05/22/14 17:54	05/23/14 12:34	5
PCB-1232	<35		81	35	ug/Kg		05/22/14 17:54	05/23/14 12:34	5
PCB-1242	**160**		81	27	ug/Kg		05/22/14 17:54	05/23/14 12:34	5
PCB-1248	<32		81	32	ug/Kg		05/22/14 17:54	05/23/14 12:34	5
PCB-1254	<17		81	17	ug/Kg		05/22/14 17:54	05/23/14 12:34	5
PCB-1260	<40		81	40	ug/Kg		05/22/14 17:54	05/23/14 12:34	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*83*		*50 - 116*	*05/22/14 17:54*	*05/23/14 12:34*	*5*
DCB Decachlorobiphenyl	*68*		*48 - 142*	*05/22/14 17:54*	*05/23/14 12:34*	*5*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2.4**		0.96	0.19	mg/Kg		05/20/14 16:00	05/21/14 13:28	1
Barium	**42**		0.96	0.10	mg/Kg		05/20/14 16:00	05/21/14 13:28	1
Cadmium	**0.12**	**J**	0.19	0.024	mg/Kg		05/20/14 16:00	05/21/14 13:28	1
Chromium	**13**		0.96	0.11	mg/Kg		05/20/14 16:00	05/21/14 13:28	1
Lead	**2.9**		0.48	0.14	mg/Kg		05/20/14 16:00	05/21/14 13:28	1
Selenium	<0.34		0.96	0.34	mg/Kg		05/20/14 16:00	05/21/14 13:28	1
Silver	**0.040**	**J**	0.48	0.035	mg/Kg		05/20/14 16:00	05/21/14 13:28	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<5.8		15	5.8	ug/Kg		05/21/14 15:00	05/22/14 10:12	1

Qualifiers

Metals

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.

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
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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)

GC Semi VOA

Prep Batch: 237610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-77275-1	DCM #9	Total/NA	Solid	3541	
500-77275-2	Aisle Repair 4	Total/NA	Solid	3541	
500-77275-3	End Aisle 3	Total/NA	Solid	3541	
500-77275-4	End Aisle 2	Total/NA	Solid	3541	
500-77275-5	End Aisle 1	Total/NA	Solid	3541	
LCS 500-237610/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-237610/1-A	Method Blank	Total/NA	Solid	3541	

Analysis Batch: 237664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-77275-1	DCM #9	Total/NA	Solid	8082	237610
500-77275-2	Aisle Repair 4	Total/NA	Solid	8082	237610
500-77275-3	End Aisle 3	Total/NA	Solid	8082	237610
500-77275-4	End Aisle 2	Total/NA	Solid	8082	237610
500-77275-5	End Aisle 1	Total/NA	Solid	8082	237610
LCS 500-237610/2-A	Lab Control Sample	Total/NA	Solid	8082	237610
MB 500-237610/1-A	Method Blank	Total/NA	Solid	8082	237610

Metals

Prep Batch: 237182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-77275-1	DCM #9	Total/NA	Solid	3050B	
500-77275-2	Aisle Repair 4	Total/NA	Solid	3050B	
500-77275-3	End Aisle 3	Total/NA	Solid	3050B	
500-77275-4	End Aisle 2	Total/NA	Solid	3050B	
500-77275-5	End Aisle 1	Total/NA	Solid	3050B	
LCS 500-237182/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 500-237182/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 237350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-77275-1	DCM #9	Total/NA	Solid	7471A	
500-77275-1 DU	DCM #9	Total/NA	Solid	7471A	
500-77275-1 MS	DCM #9	Total/NA	Solid	7471A	
500-77275-1 MSD	DCM #9	Total/NA	Solid	7471A	
500-77275-2	Aisle Repair 4	Total/NA	Solid	7471A	
500-77275-3	End Aisle 3	Total/NA	Solid	7471A	
500-77275-4	End Aisle 2	Total/NA	Solid	7471A	
500-77275-5	End Aisle 1	Total/NA	Solid	7471A	
LCS 500-237350/13-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 500-237350/12-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 237447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-77275-1	DCM #9	Total/NA	Solid	6010B	237182
500-77275-2	Aisle Repair 4	Total/NA	Solid	6010B	237182
500-77275-3	End Aisle 3	Total/NA	Solid	6010B	237182
500-77275-4	End Aisle 2	Total/NA	Solid	6010B	237182
500-77275-5	End Aisle 1	Total/NA	Solid	6010B	237182

Metals (Continued)

Analysis Batch: 237447 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-237182/2-A	Lab Control Sample	Total/NA	Solid	6010B	237182
MB 500-237182/1-A	Method Blank	Total/NA	Solid	6010B	237182

Analysis Batch: 237517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-77275-1	DCM #9	Total/NA	Solid	7471A	237350
500-77275-1 DU	DCM #9	Total/NA	Solid	7471A	237350
500-77275-1 MS	DCM #9	Total/NA	Solid	7471A	237350
500-77275-1 MSD	DCM #9	Total/NA	Solid	7471A	237350
500-77275-2	Aisle Repair 4	Total/NA	Solid	7471A	237350
500-77275-3	End Aisle 3	Total/NA	Solid	7471A	237350
500-77275-4	End Aisle 2	Total/NA	Solid	7471A	237350
500-77275-5	End Aisle 1	Total/NA	Solid	7471A	237350
LCS 500-237350/13-A	Lab Control Sample	Total/NA	Solid	7471A	237350
MB 500-237350/12-A	Method Blank	Total/NA	Solid	7471A	237350

Surrogate Summary

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - Concrete Repair End/Aisle

TestAmerica Job ID: 500-77275-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

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

		Percent Surrogate Recovery (Acceptance Limits)									
		TCX1	DCB1								
Lab Sample ID	Client Sample ID	(50-116)	(48-142)								
500-77275-1	DCM #9	82	65								
500-77275-2	Aisle Repair 4	87	93								
500-77275-3	End Aisle 3	91	85								
500-77275-4	End Aisle 2	81	58								
500-77275-5	End Aisle 1	83	68								
LCS 500-237610/2-A	Lab Control Sample	72	71								
MB 500-237610/1-A	Method Blank	76	73								

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-237610/1-A
Matrix: Solid
Analysis Batch: 237664

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 237610

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.9		17	5.9	ug/Kg		05/22/14 17:54	05/23/14 08:14	1
PCB-1221	<7.3		17	7.3	ug/Kg		05/22/14 17:54	05/23/14 08:14	1
PCB-1232	<7.3		17	7.3	ug/Kg		05/22/14 17:54	05/23/14 08:14	1
PCB-1242	<5.5		17	5.5	ug/Kg		05/22/14 17:54	05/23/14 08:14	1
PCB-1248	<6.6		17	6.6	ug/Kg		05/22/14 17:54	05/23/14 08:14	1
PCB-1254	<3.6		17	3.6	ug/Kg		05/22/14 17:54	05/23/14 08:14	1
PCB-1260	<8.2		17	8.2	ug/Kg		05/22/14 17:54	05/23/14 08:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*76*		*50 - 116*	*05/22/14 17:54*	*05/23/14 08:14*	*1*
DCB Decachlorobiphenyl	*73*		*48 - 142*	*05/22/14 17:54*	*05/23/14 08:14*	*1*

Lab Sample ID: LCS 500-237610/2-A
Matrix: Solid
Analysis Batch: 237664

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 237610

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	167	114		ug/Kg		68	59 - 110
PCB-1260	167	122		ug/Kg		73	69 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*72*		*50 - 116*
DCB Decachlorobiphenyl	*71*		*48 - 142*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-237182/1-A
Matrix: Solid
Analysis Batch: 237447

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 237182

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.20		1.0	0.20	mg/Kg		05/20/14 16:00	05/21/14 11:59	1
Barium	<0.11		1.0	0.11	mg/Kg		05/20/14 16:00	05/21/14 11:59	1
Cadmium	<0.025		0.20	0.025	mg/Kg		05/20/14 16:00	05/21/14 11:59	1
Chromium	<0.12		1.0	0.12	mg/Kg		05/20/14 16:00	05/21/14 11:59	1
Lead	<0.15		0.50	0.15	mg/Kg		05/20/14 16:00	05/21/14 11:59	1
Selenium	<0.36		1.0	0.36	mg/Kg		05/20/14 16:00	05/21/14 11:59	1
Silver	<0.036		0.50	0.036	mg/Kg		05/20/14 16:00	05/21/14 11:59	1

Lab Sample ID: LCS 500-237182/2-A
Matrix: Solid
Analysis Batch: 237447

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 237182

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	10.0	9.90		mg/Kg		99	80 - 120
Barium	200	197		mg/Kg		98	80 - 120
Cadmium	5.00	4.93		mg/Kg		99	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-237182/2-A
Matrix: Solid
Analysis Batch: 237447

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 237182

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	20.0	19.7		mg/Kg		99	80 - 120
Lead	10.0	10.1		mg/Kg		101	80 - 120
Selenium	10.0	9.23		mg/Kg		92	80 - 120
Silver	5.00	4.97		mg/Kg		99	80 - 120

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 500-237350/12-A
Matrix: Solid
Analysis Batch: 237517

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 237350

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<6.6		17	6.6	ug/Kg		05/21/14 15:00	05/22/14 09:23	1

Lab Sample ID: LCS 500-237350/13-A
Matrix: Solid
Analysis Batch: 237517

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 237350

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	167	178		ug/Kg		107	80 - 120

Lab Sample ID: 500-77275-1 MS
Matrix: Solid
Analysis Batch: 237517

Client Sample ID: DCM #9
Prep Type: Total/NA
Prep Batch: 237350

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<6.0		74.0	82.9		ug/Kg		112	75 - 125

Lab Sample ID: 500-77275-1 MSD
Matrix: Solid
Analysis Batch: 237517

Client Sample ID: DCM #9
Prep Type: Total/NA
Prep Batch: 237350

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	<6.0		82.2	95.4		ug/Kg		116	75 - 125	14	20

Lab Sample ID: 500-77275-1 DU
Matrix: Solid
Analysis Batch: 237517

Client Sample ID: DCM #9
Prep Type: Total/NA
Prep Batch: 237350

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	<6.0		<6.3		ug/Kg		NC	20

Lab Chronicle

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - Concrete Repair End/Aisle

TestAmerica Job ID: 500-77275-1

Client Sample ID: DCM #9

Lab Sample ID: 500-77275-1

Date Collected: 05/19/14 09:00

Matrix: Solid

Date Received: 05/20/14 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			237610	05/22/14 17:54	DEA	TAL CHI
Total/NA	Analysis	8082		5	237664	05/23/14 11:39	GMO	TAL CHI
Total/NA	Prep	3050B			237182	05/20/14 16:00	LA1	TAL CHI
Total/NA	Analysis	6010B		1	237447	05/21/14 12:48	LEG	TAL CHI
Total/NA	Prep	7471A			237350	05/21/14 15:00	RLL	TAL CHI
Total/NA	Analysis	7471A		1	237517	05/22/14 11:07	RLL	TAL CHI

Client Sample ID: Aisle Repair 4

Lab Sample ID: 500-77275-2

Date Collected: 05/19/14 09:30

Matrix: Solid

Date Received: 05/20/14 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			237610	05/22/14 17:54	DEA	TAL CHI
Total/NA	Analysis	8082		5	237664	05/23/14 11:53	GMO	TAL CHI
Total/NA	Prep	3050B			237182	05/20/14 16:00	LA1	TAL CHI
Total/NA	Analysis	6010B		1	237447	05/21/14 13:09	LEG	TAL CHI
Total/NA	Prep	7471A			237350	05/21/14 15:00	RLL	TAL CHI
Total/NA	Analysis	7471A		1	237517	05/22/14 10:02	RLL	TAL CHI

Client Sample ID: End Aisle 3

Lab Sample ID: 500-77275-3

Date Collected: 05/19/14 10:00

Matrix: Solid

Date Received: 05/20/14 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			237610	05/22/14 17:54	DEA	TAL CHI
Total/NA	Analysis	8082		5	237664	05/23/14 12:07	GMO	TAL CHI
Total/NA	Prep	3050B			237182	05/20/14 16:00	LA1	TAL CHI
Total/NA	Analysis	6010B		1	237447	05/21/14 13:15	LEG	TAL CHI
Total/NA	Prep	7471A			237350	05/21/14 15:00	RLL	TAL CHI
Total/NA	Analysis	7471A		1	237517	05/22/14 10:04	RLL	TAL CHI

Client Sample ID: End Aisle 2

Lab Sample ID: 500-77275-4

Date Collected: 05/19/14 10:30

Matrix: Solid

Date Received: 05/20/14 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			237610	05/22/14 17:54	DEA	TAL CHI
Total/NA	Analysis	8082		5	237664	05/23/14 12:20	GMO	TAL CHI
Total/NA	Prep	3050B			237182	05/20/14 16:00	LA1	TAL CHI
Total/NA	Analysis	6010B		1	237447	05/21/14 13:22	LEG	TAL CHI
Total/NA	Prep	7471A			237350	05/21/14 15:00	RLL	TAL CHI
Total/NA	Analysis	7471A		1	237517	05/22/14 10:10	RLL	TAL CHI

Lab Chronicle

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - Concrete Repair End/Aisle

TestAmerica Job ID: 500-77275-1

Client Sample ID: End Aisle 1
Date Collected: 05/19/14 11:00
Date Received: 05/20/14 10:00

Lab Sample ID: 500-77275-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			237610	05/22/14 17:54	DEA	TAL CHI
Total/NA	Analysis	8082		5	237664	05/23/14 12:34	GMO	TAL CHI
Total/NA	Prep	3050B			237182	05/20/14 16:00	LA1	TAL CHI
Total/NA	Analysis	6010B		1	237447	05/21/14 13:28	LEG	TAL CHI
Total/NA	Prep	7471A			237350	05/21/14 15:00	RLL	TAL CHI
Total/NA	Analysis	7471A		1	237517	05/22/14 10:12	RLL	TAL CHI

Laboratory References:

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

Certification Summary

Client: Madison-Kipp Corporation
TestAmerica Job ID: 500-77275-1
Project/Site: MadisonKipp - Concrete Repair End/Aisle

Laboratory: TestAmerica Chicago

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	999580010	08-31-14

TestAmerica

THE LEADER IN ENVIRO

2417 Bond Street, Universit
Phone: 708.534.5200 Fa

500-77275 COC

Chain of Custody Record

Lab Job #: 500-77275

Chain of Custody Number:

Page 1 of 1

Temperature °C of Cooler: 2.3

Report To (optional)	Bill To (optional)
Contact: Alina walcek	Contact: Alina walcek
Company: Madison Kipp	Company: Madison Kipp
Address: 201 waubesa St.	Address: PO Box 8043
Address: Madison WI 53704	Address: Madison WI 53708
Phone: 608-242-5200	Phone: 608-242-5200
Fax:	Fax:
E-Mail: aualcek@madison-kipp.com	PO#/Reference# 97178

Client	Client Project #
Madison Kipp	
Project Name: Concrete Repair - end of aisle	
Project Location/State: Madison, WI	Lab Project #
Sampler: A walcek	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: PCBs	Parameter: Metals	Comments
1		DCM #9	5/9/14	900	2	O		X	X	Concrete
2		Aisle Repair 4	5/9/14	930	2	O		X	X	↓
3		End Aisle 3	5/9/14	1000	2	O		X	X	
4		End Aisle 2	5/9/14	1030	2	O		X	X	
5		End Aisle 1	5/9/14	1100	2	O		X	X	

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
Alina Walcek	MKC	5/19/14	15:00	JLA	TA	5/20/14	1000
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped FX
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:

Login Sample Receipt Checklist

Client: Madison-Kipp Corporation

Job Number: 500-77275-1

Login Number: 77275

List Source: TestAmerica Chicago

List Number: 1

Creator: Lunt, Jeff T

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	2.3
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
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.	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	

MKC
Madison-Kipp Corporation

Post Office Box 8043
Madison, WI 53708-8043

201 Waubesa Street
Madison, WI 53704-5728

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

Subject:
Interior Building Maintenance - Center Aisle, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin. Facility ID No. 113125320, BRRTS No. 02-13-001569

Introduction

Madison Kipp Corporation (MKC) will be conducting maintenance activities in the center aisle of our building at 201 Waubesa Street in Madison, Wisconsin (Figures 1 and 2 and Attachment A). As part of these activities, both soil and concrete will be removed. The primary reason for soil and concrete excavation is to improve safety down the center aisle. This aisle way is used to transport molten aluminum from furnaces to holding furnaces via fork truck. The current concrete is uneven and contains divots that make transporting molten aluminum difficult. The goal of this work is to replace the current 6-inch concrete floor with a 10-inch concrete floor to improve safety in our plant. Due to the 10-day curing time of concrete used for fork truck traffic, MKC will be conducting this work during our two week shutdown starting Friday, June 27th. In order to allow time for rebar to be installed and concrete to be poured, soil and concrete removal must take place between Friday, June 27th at 3 pm and Monday, June 30th.

Madison Kipp recognizes that the soil beneath the center aisle contains high levels of polychlorinated biphenyls (PCBs). During this building maintenance activity, some impacted soil in the area of the historical trench, (e.g., up to approximately 3 feet below land surface (bls)) will be removed if the structural stability of the machines can be maintained.

On-Site PCB Investigation Background

A Site Investigation Work Plan was submitted to the WDNR on May 31, 2012, for approval to complete site investigation activities at the Site. The WDNR provided a Conditional Approval letter dated June 25, 2012, for this work plan. On September 28, 2012, a Site Investigation Work Plan Addendum, Building Subsurface Investigation (Addendum) was submitted to the WDNR to present the proposed investigation activities to fill data gaps concerning potential source areas beneath the on-Site building floor. The Addendum was approved by WDNR in a letter dated October 17, 2012. A summary letter, Building Subsurface Investigation Summary, dated February 14, 2013, was submitted to the WDNR to document the Addendum activities.

MKC
Madison-Kipp Corporation
Post Office Box 8043
Madison, WI 53708-8043
201 Waubesa Street
Madison, WI 53704-5728

On March 15, 2013, a Site Investigation and Interim Actions Report, February 2012 – January 2013 (SI Report) was submitted to the WDNR to summarize investigation activities and results for the reporting period. On May 29, 2013, a Supplemental Site Information/Addendum 1 was submitted to the WDNR to provide further information regarding the Site (SI Addendum 1). The SI Report was reviewed by the WDNR and a response letter dated June 20, 2013 was prepared that requested a work plan to address "sampling for degree and extent of PCB [polychlorinated biphenyls] and VOC [volatile organic compounds] soil contamination beneath the MKC manufacturing buildings."

On July 8, 2013, ARCADIS met with the WDNR to discuss the agency's June 20, 2013 response letter and requested a joint meeting with the WDNR and U.S. EPA to clarify the investigation expectations for beneath the manufacturing building. On July 23, 2013, ARCADIS met with the WDNR and U.S. EPA to discuss the investigation results completed to date, conduct a site walk, and discuss the objective of additional investigation activities.

In August 2013, the Supplemental Building Interior Polychlorinated Biphenyl Work Plan was submitted to the WDNR. The Work Plan was approved by WDNR in the Madison Kipp Corporation (MKC) Work Plan Reviews letter, dated October 9, 2013. On April 22, 2014, a Supplemental Building Interior Polychlorinated Biphenyl Work Plan Subsurface Investigation Summary was submitted to the WDNR. This letter summarized PCB and volatile organic compound (VOC) delineation beneath the main site building.

Work Plan

Health and Safety
Excavation work will be subcontracted to Trans Environmental. They will develop a site health and safety plan. MKC will monitor for dust during the excavation. If conditions are encountered during activities that differ from those outlined in the health and safety plan, the work will be re-evaluated to determine the appropriate actions that will ensure the health and well-being of the workers.

The depth of the excavation will be determined in the field based on the structural stability of the adjacent soils and machine footings.

Soil and Concrete Sampling
A composite concrete sample was collected on March 27, 2014 to characterize the concrete for disposal. A composite soil sample was collected on February 27, 2014 to characterize the soil from 0-6 feet below ground surface for disposal.

Excavation and Management of Soil and Concrete
Site concrete will be excavated and disposed of as non-hazardous waste at Advanced Disposal Service's Glacier Ridge Landfill. Site soils will be excavated and disposed of as a TSCA

MKC
Madison-Kipp Corporation
Post Office Box 8043
Madison, WI 53708-8043
201 Waubesa Street
Madison, WI 53704-5728

Service's Glacier Ridge Landfill. Site soils will be excavated and disposed of as a TSCA hazardous waste at EQ landfill. The excavation will measure eight feet wide and 165 feet long. The depth of the excavation will be determined in the field. Any abandoned piping in the excavation will be removed, drained if necessary and plugged with concrete at the limits of the excavation. The excavation will be backfilled with 3-inch crushed gravel and ¾-inch fine gravel. Gravel will be compacted before installing a 10-inch concrete floor.

Reporting

Madison-Kipp will summarize excavation activities in a letter to the WDNR after excavation is complete.

We trust that this information meets your needs. Should you require additional information, please contact one of the undersigned.

Madison Kipp Corporation

Alina Walcek

Alina Walcek
Environmental and Safety Coordinator

Copies:
David Crass - Michael, Best, & Friedrich LLP
Jennine Trask – ARCADIS US-Inc.
Ken Zolnierczyk – US EPA

Attachments:
Figure 1 - Soil Boring and Well Locations Building Investigation
Figure 2 - Interior Building Maintenance -Center Aisle
Attachment A - PCB Tables
Table 1 - Summary of Soil Analytical Results, Building Subsurface Investigation, from *Building Subsurface Investigation Summary* Report, February 2013
Table 1 - Summary of Soil Analytical Results, Building Subsurface Investigation Summary, from *Supplemental Building Interior PCB Work Plan Subsurface Investigation Summary* Report, April 2014

Waubesa St

Bike Path

HISTORIC PCE AST

B-173

B-172

HISTORIC WASH TANKS

B-171

B-170

OIL SHED

B-192

B-190

B-134

B-136

B-135

B-189

B-138

B-137

HISTORIC HEAT TREATMENT QUENCH AREA

HISTORIC OIL STORAGE

B-174

B-193

B-194

HISTORIC COOLING WATER PIT

B-145

B-140

HISTORIC WASH TANKS

B-195

B-139

B-146

B-141

B-169

B-142

HISTORIC WASH TANKS

HISTORIC WASH TANKS

B-147

B-168

B-179

B-144

B-143

HISTORIC PROCESS PIPING TRENCH FOR DIE CASTINGS OPERATION

B-148

B-183

B-178

B-180

B-184

B-177

B-149

B-167

B-181

MW-22S

MW-22D

B-176

B-150

B-185

B-166

B-182

B-165

B-175

B-151

B-158

B-191

HISTORIC DIE LUBE AREA

B-162

B-159

B-164

MW-23D

B-160

MW-23S

B-186

B-163

B-152

B-188

PCB TRANSFORMERS

B-161

B-187

CHEMICAL STORAGE AREA

B-155

B-156

B-153

B-157

PRESSURE WASH SPRAY BOOTH

B-154

Marquette St

Fairview St

Atwood Ave

LEGEND

- SOIL BORING
- MONITORING WELL
- APPROXIMATE LIMITS OF CONCRETE REMOVAL
- PARCELS
- BUILDING FOOTPRINTS
- BUILDING FEATURE

0 80 160

Feet

MADISON-KIPP CORPORATION
201 WAUBESA STREET
MADISON, WISCONSIN

SOIL BORING AND WELL LOCATIONS BUILDING INVESTIGATION

ARCADIS

FIGURE 1

CITY: MKE DIV/GROUP: IM DB: GM LD: CK MADISON-KIPP
Z:\GISPROJECTS_ENV\MadisonKipp\ArcMap\2014-06\Fig1_SBandMWLocations_20140603.mxd

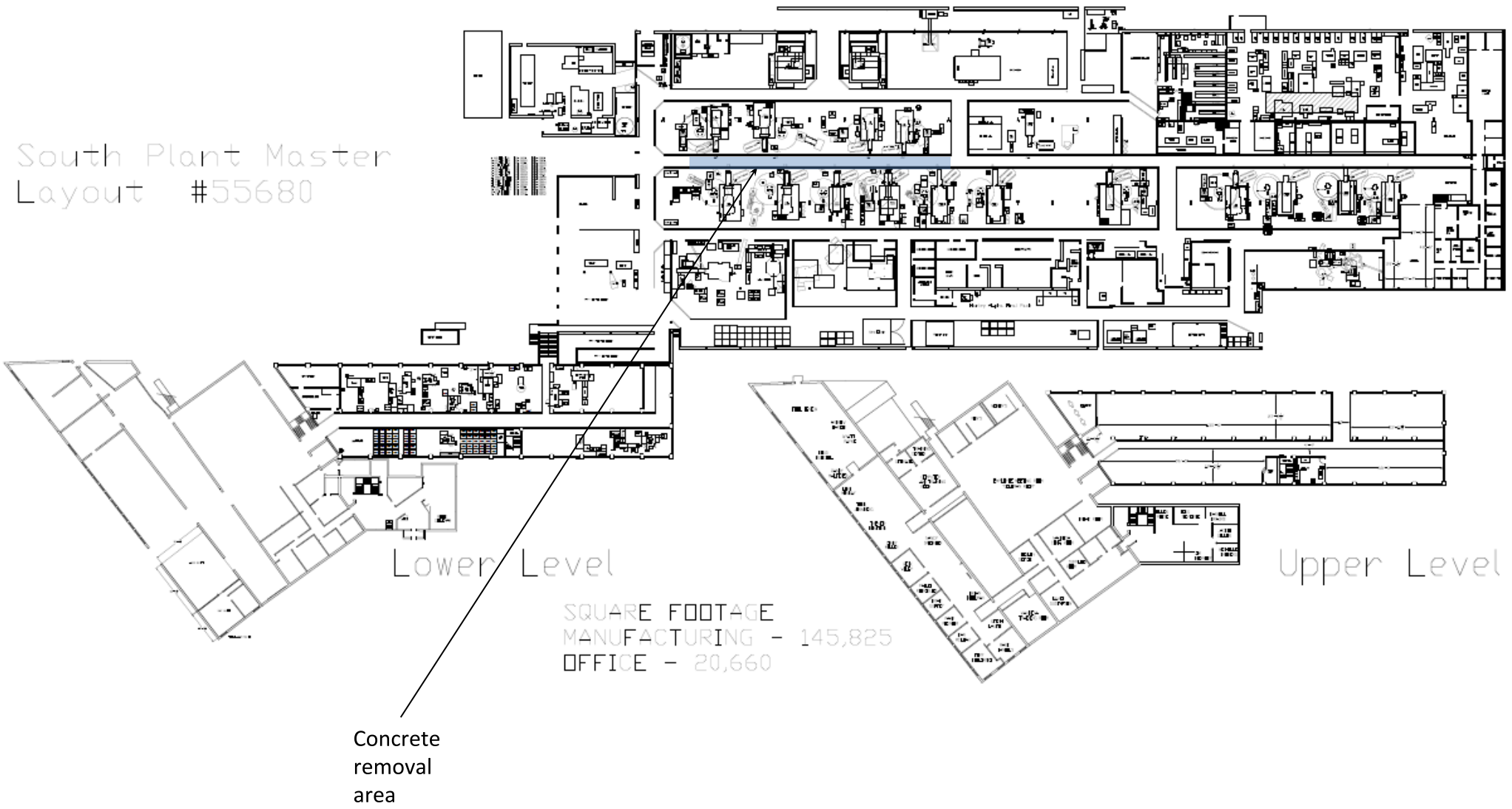


Figure 2
Interior Building Maintenance - Center Aisle
Madison Kipp Corporation
Madison, Wisconsin

Table 1. Summary of Soil Analytical Results, Building Subsurface Investigation, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin.

Well/Boring		Non-Industrial	Industrial	EPA High	TSCA	B-134	B-135		B-136
Sample Depth	Groundwater	Direct	Direct	Occupancy	Disposal	0-2'	0-1.8'	8-9.4'	2-4'
Sample Date	RCLs	Contact RCL	Contact RCL	Cleanup Level	Limit	10/25/12	10/15/12	10/15/12	10/25/12
VOCs									
1,2,4-Trichlorobenzene	0.408	22.1	98.7	NE	NE	<0.039	<0.021	<0.088	<0.75
1,2,4-Trimethylbenzene	NE	89.8	219	NE	NE	<0.022	0.032 J	1.2	50
1,2-Dichlorobenzene	1.168	376	376	NE	NE	<0.021	<0.011	<0.048	<0.41
1,3,5-Trimethylbenzene	NE	182	182	NE	NE	<0.021	<0.011	1	19
cis-1,2-Dichloroethene	0.0412	156	2,040	NE	NE	1	0.55	<0.029	<0.24
Ethylbenzene	1.57	7.47	37	NE	NE	<0.013	0.017	<0.029	<0.25
Isopropylbenzene	NE	268	268	NE	NE	<0.026	<0.014	<0.058	<0.5
Naphthalene	0.6587	5.15	26	NE	NE	<0.051	<0.027	<0.11	***6.5***
n-Butylbenzene	NE	108	108	NE	NE	<0.013	<0.0071	<0.03	<0.26
N-Propylbenzene	NE	264	264	NE	NE	<0.018	<0.0096 *	<0.041 *	2.1 J
p-Isopropyltoluene	NE	162	162	NE	NE	<0.019	<0.01	<0.043	8.7
sec-Butylbenzene	NE	145	145	NE	NE	<0.016	<0.0085	<0.036	4.2
Tetrachloroethene	0.00454	30.7	153	NE	NE	26	19	<0.039	<0.33
Toluene	1.1072	818	818	NE	NE	<0.012	<0.0063	<0.027	<0.23
Trichloroethene	0.00358	0.644	8.81	NE	NE	***1.5***	***1.8***	<0.043	<0.37
Vinyl chloride	0.000138	0.0671	2.03	NE	NE	<0.011	<0.0057	<0.024	<0.21
Xylenes, Total	3.94	258	258	NE	NE	<0.0071	0.048	<0.016	<0.14
PAHs									
1-Methylnaphthalene	NE	NE	NE	NE	NE	0.041	0.037	0.12	0.61
2-Methylnaphthalene	NE	229	368	NE	NE	0.055 J	<0.045	0.068 J	0.96 J
Acenaphthene	NE	3,440	33,000	NE	NE	<0.012	<0.01	0.013 J	<0.12
Acenaphthylene	NE	487	487	NE	NE	0.012 J	<0.008 *	<0.0087 *	<0.095
Anthracene	196.74	17,200	100,000	NE	NE	0.089	<0.0082	<0.0089	<0.097
Benzo(a)anthracene	NE	0.148	2.11	NE	NE	***0.5***	<0.0073	0.027 J	<0.086
Benzo(a)pyrene	0.470	0.0148	0.211	NE	NE	***0.67***	<0.0063	***0.016 J***	<0.075
Benzo(b)fluoranthene	0.480	0.148	2.11	NE	NE	***1.1***	<0.0067	0.021 J	<0.08
Benzo(g,h,i)perylene	NE	NE	NE	NE	NE	0.88	<0.012	0.024 J	<0.14
Benzo(k)fluoranthene	NE	1.48	21.1	NE	NE	0.51	<0.0083	0.021 J	<0.098
Chrysene	0.1451	14.8	211	NE	NE	0.67	<0.0078	0.03 J	<0.093
Dibenz(a,h)anthracene	NE	0.0148	0.211	NE	NE	***0.24***	<0.0097	<0.011	<0.12

Footnotes on Page 17.

Table 1. Summary of Soil Analytical Results, Building Subsurface Investigation, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin.

Well/Boring		Non-Industrial	Industrial	EPA High	TSCA	B-134	B-135		B-136
Sample Depth	Groundwater	Direct	Direct	Occupancy	Disposal	0-2'	0-1.8'	8-9.4'	2-4'
Sample Date	RCLs	Contact RCL	Contact RCL	Cleanup Level	Limit	10/25/12	10/15/12	10/15/12	10/25/12
PAHs (continued)									
Fluoranthene	88.82	2,290	22,000	NE	NE	0.57	<0.014	0.037	<0.17
Fluorene	14.81	2,290	22,000	NE	NE	0.016 J	<0.0079	<0.0086	<0.094
Indeno(1,2,3-cd)pyrene	NE	0.148	2.11	NE	NE	***0.65***	<0.012	0.017 J	<0.14
Naphthalene	0.6587	5.15	26	NE	NE	0.032 J	<0.0067	0.12	***12***
Phenanthrene	NE	115	115	NE	NE	0.25	0.033 J	0.051	<0.17
Pyrene	54.47	1,720	16,500	NE	NE	0.67	<0.013	0.029 J	<0.15
Metals and Cyanide									
Arsenic	0.584	0.39	1.59	NE	NE	***7.6***	***1.5***	***4.4***	***6.4***
Barium	164.8	15,300	100,000	NE	NE	130	14 B	75 B	110
Cadmium	0.752	70.2	803	NE	NE	0.61	0.17 J	0.29	<0.062
Chromium	360,000	NE	NE	NE	NE	16	3.7	8.2	19
Cyanide, Total	4.04	46.9	613	NE	NE	0.53 J	<0.18	<0.13	<0.2
Lead	27	400	800	NE	NE	140	3.4	18	11
Mercury	0.208	3.13	3.13	NE	NE	***9***	0.15	0.058	<0.007
Selenium	0.52	391	5,110	NE	NE	0.73 J	<0.3	<0.33	1.1 J
Silver	0.8497	391	5,110	NE	NE	0.91	<0.063	<0.069	<0.075
PCBs									
Aroclor-1242	NE	0.222	0.744	NE	NE	0.11	<0.0059	<0.006	***56***
Arcolor-1248	NE	0.222	0.744	NE	NE	<0.0079	<0.0071	<0.0072	<1.6
Aroclor-1254	NE	0.222	0.744	NE	NE	<0.0043	<0.0039	<0.0039	<0.89
Total Detected PCBs	NE	NE	NE	1	50	0.11	ND	ND	56

Footnotes on Page 17.

Table 1. Summary of Soil Analytical Results, Building Subsurface Investigation, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin.

Well/Boring	B-137		B-138	B-139		B-140	B-141	B-142		B-143
Sample Depth	2-4'	4-6'	1.8-3.1'	0.9-2.1'	8-9.7'	2-4'	5.8-7.8'	0.6-2.6'	13.3-15.3'	0.5-1.9'
Sample Date	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/17/12
VOCs										
1,2,4-Trichlorobenzene	<0.023	<0.022	<0.024	<0.024	<0.02	<0.023	<0.023	<0.023	<0.021	<0.023
1,2,4-Trimethylbenzene	<0.013	<0.012	<0.013	<0.014	<0.011	<0.013	<0.013	<0.013	<0.011	<0.013
1,2-Dichlorobenzene	<0.013	<0.012	<0.013	<0.013	<0.011	<0.013	<0.012	<0.012	<0.011	<0.012
1,3,5-Trimethylbenzene	<0.013	<0.012	<0.013	<0.013	<0.011	<0.013	<0.012	<0.012	<0.011	<0.012
cis-1,2-Dichloroethene	<0.0075	<0.0072	<0.0078	<0.0079	<0.0066	<0.0076	<0.0074	<0.0074	<0.0067	<0.0073
Ethylbenzene	<0.0077	<0.0074	<0.008	<0.0081	<0.0067	<0.0078	<0.0076	<0.0076	<0.0068	<0.0075
Isopropylbenzene	<0.015	<0.015	<0.016	<0.016	<0.013	<0.016	<0.015	<0.015	<0.014	<0.015
Naphthalene	<0.03	<0.029	<0.031	<0.032	<0.026	<0.031	<0.03	<0.03	<0.027	<0.029
n-Butylbenzene	<0.0079	<0.0075	<0.0082	<0.0083	<0.0069	<0.008	<0.0077	<0.0078	<0.007	<0.0077
N-Propylbenzene	<0.011 *	<0.01 *	<0.011 *	<0.011 *	<0.0094 *	<0.011 *	<0.011 *	<0.011 *	<0.0095 *	<0.01
p-Isopropyltoluene	<0.011	<0.011	<0.012	<0.012	<0.0099	<0.011	<0.011	<0.011	<0.01	<0.011
sec-Butylbenzene	<0.0094	<0.009	<0.0098	<0.0099	<0.0082	<0.0095	<0.0093	<0.0093	<0.0084	<0.0092
Tetrachloroethene	0.12	2.6	0.31	0.12	<0.0089	0.057 J	<0.01	0.38	<0.0091	0.051 J
Toluene	<0.007	<0.0067	<0.0073	<0.0074	<0.0062	<0.0071	<0.0069	<0.007	<0.0062	<0.0069
Trichloroethene	<0.011	0.11	<0.012	<0.012	<0.01	<0.011	<0.011	<0.011	<0.01	<0.011
Vinyl chloride	<0.0063	<0.0061	<0.0066	<0.0067	<0.0056	<0.0064	<0.0062	<0.0063	<0.0057	<0.0062
Xylenes, Total	<0.0042	<0.004	<0.0043	<0.0044	<0.0037	<0.0042	<0.0041	<0.0041	<0.0037	<0.0041
PAHs										
1-Methylnaphthalene	<0.02	<0.019	<0.02	<0.02	<0.017	<0.02	<0.02	<0.019	<0.018	<0.019
2-Methylnaphthalene	<0.052	<0.05	<0.053	<0.052	<0.046	<0.052	<0.051	<0.051	<0.047	<0.05
Acenaphthene	<0.012	<0.011	0.035 J	<0.012	<0.01	<0.012	<0.012	<0.012	<0.011	<0.012
Acenaphthylene	<0.0093 *	<0.0088 *	<0.0094 *	<0.0092 *	<0.0081 *	<0.0093 *	<0.0091 *	<0.009 *	<0.0082 *	<0.0089
Anthracene	<0.0095	<0.009	0.072	<0.0094	<0.0082	<0.0095	<0.0093	<0.0092	<0.0084	<0.0091
Benzo(a)anthracene	<0.0084	<0.008	***0.16***	<0.0084	<0.0073	<0.0084	<0.0083	<0.0082	<0.0075	<0.0081
Benzo(a)pyrene	<0.0073	<0.007	***0.11***	<0.0073	<0.0064	<0.0073	<0.0072	<0.0071	<0.0065	<0.007
Benzo(b)fluoranthene	<0.0078	<0.0074	0.12	<0.0078	<0.0068	<0.0078	<0.0077	<0.0076	<0.007	<0.0075
Benzo(g,h,i)perylene	<0.014	<0.013	0.062	<0.014	<0.012	<0.014	<0.013	<0.013	<0.012	<0.013
Benzo(k)fluoranthene	<0.0096	<0.0091	0.072	<0.0096	<0.0084	<0.0096	<0.0094	<0.0093	<0.0086	<0.0092
Chrysene	<0.0091	<0.0086	0.15	<0.0091	<0.0079	<0.0091	<0.0089	<0.0088	<0.0081	<0.0087
Dibenz(a,h)anthracene	<0.011	<0.011	***0.031 J***	<0.011	<0.0098	<0.011	<0.011	<0.011	<0.01	<0.011

Footnotes on Page 17.

Table 1. Summary of Soil Analytical Results, Building Subsurface Investigation, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin.

Well/Boring	B-137		B-138	B-139		B-140	B-141	B-142		B-143
Sample Depth	2-4'	4-6'	1.8-3.1'	0.9-2.1'	8-9.7'	2-4'	5.8-7.8'	0.6-2.6'	13.3-15.3'	0.5-1.9'
Sample Date	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/16/12	10/17/12
PAHs (continued)										
Fluoranthene	<0.017	<0.016	0.41	<0.016	<0.014	<0.017	<0.016	<0.016	<0.015	<0.016
Fluorene	<0.0092	<0.0087	0.03 J	<0.0091	<0.008	<0.0092	<0.009	<0.0089	<0.0082	<0.0088
Indeno(1,2,3-cd)pyrene	<0.014	<0.013	0.055	<0.014	<0.012	<0.014	<0.013	<0.013	<0.012	<0.013
Naphthalene	<0.0078	<0.0074	<0.0079	<0.0077	<0.0068	<0.0078	<0.0076	<0.0075	<0.0069	<0.0074
Phenanthrene	<0.017	<0.016	0.31	<0.017	<0.015	<0.017	<0.017	<0.016	<0.015	<0.016
Pyrene	<0.015	<0.014	0.3	<0.015	<0.013	<0.015	<0.014	<0.014	<0.013	<0.014
Metals and Cyanide										
Arsenic	***8.5***	***7***	***3.7***	***7.2***	***2.3***	***4.5***	***5.7***	***4.6***	***2.1***	***3.9***
Barium	65 B	69 B	180 B	110 B	25 B	130 B	240 B	190 B	16 B	120
Cadmium	0.20 J	0.21 J	0.28	0.17 J	0.17 J	0.18 J	0.099 J	0.20 J	0.13 J	0.19 J
Chromium	18	15	9.5	45	8	49	18	12	5	10
Cyanide, Total	<0.18	<0.17	<0.2	<0.21	<0.16	0.32 J	<0.19	<0.18	<0.17	<0.18
Lead	18	14	19	12	3.1	12	9.2	14	3.4	14
Mercury	2.6	0.44	<0.0078	0.037	<0.0059	0.017 J	0.022	0.016 J	<0.006	0.017 J
Selenium	0.82 J	<0.32	0.78 J	0.38 J	<0.28	0.62 J	0.36 J	0.43 J	<0.28	0.82 J
Silver	<0.069	<0.068	0.080 J	<0.065	0.24 J	<0.074	<0.066	0.072 J	<0.058	<0.07
PCBs										
Aroclor-1242	0.011 J	<0.0063	<0.0067	<0.0068	0.019	<0.0064	0.017 J	0.063	<0.0058	***33 B***
Arcolor-1248	<0.0076	<0.0075	<0.0081	<0.0082	<0.0069	<0.0076	<0.0078	<0.0078	<0.007	<0.76
Aroclor-1254	<0.0042	<0.0041	<0.0044	0.16	0.013 J	<0.0042	<0.0043	0.041	<0.0038	<0.42
Total Dectected PCBs	0.011	ND	ND	0.16	0.032	ND	0.017	0.104	ND	33

Footnotes on Page 17.

Table 1. Summary of Soil Analytical Results, Building Subsurface Investigation, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin.

Well/Boring	B-144		B-145		B-146		B-147		B-148
Sample Depth	2-4'	5.7-7.7'	0.6-2.6'	5.6-7.6'	2-4'	4-6'	1.9-3.9'	6-8'	5.8-7.8'
Sample Date	10/17/12	10/17/12	10/15/12	10/15/12	10/25/12	10/25/12	10/16/12	10/25/12	10/19/12
VOCs									
1,2,4-Trichlorobenzene	<0.023	<0.023	<0.024	<0.023	<0.038	<0.038	<0.023	<0.034	0.15
1,2,4-Trimethylbenzene	<0.013	<0.013	<0.013	<0.013	<0.021	<0.021	<0.013	<0.019	0.53
1,2-Dichlorobenzene	<0.013	<0.012	<0.013	<0.012	<0.02	<0.021	0.053 J	<0.019	<0.012
1,3,5-Trimethylbenzene	<0.013	<0.012	<0.013	<0.012	<0.021	<0.021	<0.012	<0.019	0.19
cis-1,2-Dichloroethene	<0.0075	<0.0074	<0.0077	<0.0074	<0.012	<0.012	<0.0074	<0.011	0.13
Ethylbenzene	<0.0077	<0.0076	<0.0079	<0.0076	<0.013	<0.013	<0.0076	<0.011	<0.0072
Isopropylbenzene	<0.015	<0.015	<0.016	<0.015	<0.025	<0.025	<0.015	<0.023	0.21
Naphthalene	<0.03	<0.03	<0.031	<0.03	<0.049	<0.05	<0.03	<0.045	0.15
n-Butylbenzene	<0.0079	<0.0078	<0.0081	<0.0078	<0.013	<0.013	<0.0077	<0.012	<0.0074
N-Propylbenzene	<0.011	<0.011	<0.011 *	<0.011 *	<0.017	<0.018	<0.01 *	<0.016	0.069 J
p-Isopropyltoluene	<0.011	<0.011	<0.012	<0.011	<0.018	<0.019	<0.011	<0.017	0.064 J
sec-Butylbenzene	<0.0094	<0.0093	<0.0097	<0.0093	<0.015	<0.016	<0.0092	<0.014	0.073
Tetrachloroethene	<0.01	<0.01	0.21	<0.01	0.29	1.3	0.036 J	0.041 J	2
Toluene	<0.0071	<0.0069	<0.0072	0.0085 J	<0.011	<0.012	<0.0069	<0.01	<0.0066
Trichloroethene	<0.011	<0.011	<0.012	<0.011	<0.019	<0.019	<0.011	<0.017	0.068
Vinyl chloride	<0.0064	<0.0063	<0.0065	<0.0063	<0.01	<0.01	<0.0062	<0.0094	0.02
Xylenes, Total	<0.0042	<0.0041	<0.0043	<0.0041	<0.0068	<0.0069	<0.0041	<0.0062	0.092
PAHs									
1-Methylnaphthalene	<0.02	<0.02	<0.02	<0.02	<0.018	<0.018	<0.019	<0.019	<0.36
2-Methylnaphthalene	<0.052	<0.051	<0.053	<0.052	<0.046	<0.048	<0.05	<0.049	<0.95
Acenaphthene	<0.012	<0.012	<0.012	<0.012	<0.011	<0.011	<0.011	<0.011	<0.22
Acenaphthylene	<0.0092	<0.009	<0.0093 *	<0.0092 *	<0.0081	<0.0084	<0.0088 *	<0.0087	<0.17
Anthracene	<0.0095	<0.0093	<0.0095	<0.0094	<0.0083	<0.0086	<0.009	<0.0089	<0.17
Benzo(a)anthracene	<0.0084	<0.0082	<0.0085	<0.0084	0.054	<0.0077	<0.008	<0.0079	<0.15
Benzo(a)pyrene	<0.0073	<0.0072	<0.0074	<0.0073	<0.0065	<0.0067	<0.007	<0.0069	<0.13
Benzo(b)fluoranthene	<0.0078	<0.0076	<0.0079	<0.0077	<0.0069	<0.0071	<0.0074	<0.0074	<0.14
Benzo(g,h,i)perylene	<0.014	<0.013	<0.014	<0.013	<0.012	<0.012	<0.013	<0.013	<0.25
Benzo(k)fluoranthene	<0.0096	<0.0094	<0.0096	<0.0095	<0.0085	<0.0087	<0.0091	<0.009	<0.17
Chrysene	<0.0091	<0.0089	<0.0091	<0.009	0.049	<0.0083	<0.0086	<0.0086	<0.17
Dibenz(a,h)anthracene	<0.011	<0.011	<0.011	<0.011	<0.0099	<0.01	<0.011	<0.011	<0.2

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Table 1. Summary of Soil Analytical Results, Building Subsurface Investigation, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin.

Well/Boring	B-144		B-145		B-146		B-147		B-148
Sample Depth	2-4'	5.7-7.7'	0.6-2.6'	5.6-7.6'	2-4'	4-6'	1.9-3.9'	6-8'	5.8-7.8'
Sample Date	10/17/12	10/17/12	10/15/12	10/15/12	10/25/12	10/25/12	10/16/12	10/25/12	10/19/12
PAHs (continued)									
Fluoranthene	<0.016	<0.016	<0.017	<0.016	<0.015	<0.015	<0.016	<0.016	<0.3
Fluorene	<0.0091	<0.0089	<0.0092	<0.0091	<0.0081	<0.0083	<0.0087	<0.0086	<0.17
Indeno(1,2,3-cd)pyrene	<0.014	<0.013	<0.014	<0.013	<0.012	<0.012	<0.013	<0.013	<0.25
Naphthalene	<0.0077	<0.0076	<0.0078	<0.0077	<0.0068	<0.0071	<0.0074	<0.0073	0.16 J
Phenanthrene	<0.017	<0.016	<0.017	<0.017	0.016 J	<0.015	<0.016	<0.016	<0.31
Pyrene	<0.015	<0.014	<0.015	<0.014	0.033 J	<0.013	<0.014	<0.014	<0.27 *
Metals and Cyanide									
Arsenic	***5.3***	***7***	***5.2***	***7.8***	***1.7***	***5.3***	***4.8***	***5***	***3.3***
Barium	130	99	120 B	99 B	18	60	78 B	77	51
Cadmium	0.11 J	0.11 J	0.15 J	0.095 J	0.46	<0.058	0.096 J	0.11 J	0.092 J
Chromium	13	15	13	16	6.5	17	14	13	14
Cyanide, Total	0.16 J	0.23 J	<0.18	<0.17	<0.17	<0.17	<0.17	<0.17	<0.18
Lead	11	12	12	12	5.6	6.7	11	6.3	5.3 B
Mercury	0.021	0.049	0.021	0.033	0.01 J	0.026	0.024	0.074	0.013 J
Selenium	0.64 J	<0.3	0.68 J	0.59 J	<0.29	0.81 J	0.39 J	0.52 J	<0.31
Silver	<0.071	<0.062	<0.072	<0.067	<0.061	<0.07	<0.06	<0.069	<0.065
PCBs									
Aroclor-1242	***12 B***	0.012 J	***0.44***	0.021	<5.7	<0.063	***0.58***	<0.0062	***20,000***
Arcolor-1248	<0.31	<0.0076	<0.016	<0.0076	***46***	***1.3***	<0.015	<0.0075	<380
Aroclor-1254	<0.17	<0.0042	<0.0088	<0.0041	<3.8	<0.042	<0.0083	<0.0041	<210
Total Dectected PCBs	12	0.012	0.44	0.021	46	1.3	0.58	ND	20,000

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Table 1. Summary of Soil Analytical Results, Building Subsurface Investigation, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin.

Well/Boring	B-149		B-150	B-151		B-152	B-153		B-154
Sample Depth	0.7-2.7'	5.7-7.7'	1.0-3.0'	2-4'	9.1-11.1'	1.5-3.5'	0.7-2.7'	13.8-15.8'	5.2-7.2'
Sample Date	10/19/12	10/19/12	10/19/12	10/19/12	10/19/12	10/19/12	10/19/12	10/19/12	10/19/12
VOCs									
1,2,4-Trichlorobenzene	<0.023	<0.021	<0.023	<0.023	<0.019	<0.021	<0.023	<0.02	<0.019
1,2,4-Trimethylbenzene	0.29	<0.012	<0.013	0.2	0.13	<0.012	<0.013	<0.011	<0.011
1,2-Dichlorobenzene	<0.012	<0.012	<0.013	<0.012	<0.011	<0.011	<0.012	<0.011	<0.011
1,3,5-Trimethylbenzene	0.1 J	<0.012	<0.013	0.061 J	0.04 J	<0.011	<0.012	<0.011	<0.011
cis-1,2-Dichloroethene	<0.0074	<0.007	<0.0075	<0.0075	0.03 J	<0.0069	<0.0074	<0.0065	<0.0063
Ethylbenzene	<0.0076	<0.0071	<0.0077	<0.0076	<0.0065	<0.007	<0.0076	<0.0067	<0.0065
Isopropylbenzene	0.043 J	<0.014	<0.015	<0.015	<0.013	<0.014	<0.015	<0.013	<0.013
Naphthalene	<0.03	<0.028	<0.03	0.087 J	0.075 J	<0.028	<0.03	<0.026	<0.025
n-Butylbenzene	<0.0078	<0.0073	<0.0079	0.047 J	<0.0067	<0.0072	<0.0078	<0.0068	<0.0066
N-Propylbenzene	0.038 J	<0.0099	<0.011	<0.011	<0.009	<0.0097	<0.011	<0.0093	<0.009
p-Isopropyltoluene	<0.011	<0.01	<0.011	<0.011	<0.0095	<0.01	<0.011	<0.0098	<0.0095
sec-Butylbenzene	<0.0093	<0.0087	<0.0094	<0.0093	<0.0079	<0.0086	<0.0093	<0.0082	<0.0079
Tetrachloroethene	0.12	0.046 J	0.038 J	0.11	0.51	<0.0093	<0.01	<0.0089	<0.0086
Toluene	0.01 J	<0.0065	<0.007	0.012 J	<0.0059	<0.0064	<0.0069	<0.0061	<0.0059
Trichloroethene	0.016 J	<0.011	<0.011	<0.011	0.013 J	<0.01	<0.011	<0.0099	<0.0095
Vinyl chloride	<0.0063	<0.0059	<0.0064	<0.0063	<0.0054	<0.0058	<0.0063	<0.0055	<0.0053
Xylenes, Total	0.051	<0.0039	<0.0042	0.041	0.016 J	<0.0038	<0.0041	<0.0036	<0.0035
PAHs									
1-Methylnaphthalene	<1.9	<0.18	<0.2	0.11 J	0.17 J	<0.018	<0.019	<0.017	<0.017
2-Methylnaphthalene	<5	<0.47	<0.51	<0.25	<0.44	<0.048	<0.05	<0.046	<0.043
Acenaphthene	<1.2	<0.11	<0.12	<0.058	<0.1	<0.011	<0.011	<0.011	<0.0099
Acenaphthylene	<0.89	<0.083	<0.091	<0.044	<0.078	<0.0085	<0.0088	<0.0081	<0.0076
Anthracene	<0.91	<0.085	<0.093	<0.045	<0.08	<0.0087	<0.009	<0.0083	<0.0078
Benzo(a)anthracene	<0.81	<0.076	<0.083	<0.041	<0.072	<0.0077	<0.008	<0.0074	<0.007
Benzo(a)pyrene	<0.71	<0.066	<0.072	<0.035	<0.062	<0.0067	<0.007	<0.0064	<0.0061
Benzo(b)fluoranthene	<0.75	<0.071	<0.077	<0.038	<0.066	<0.0072	<0.0074	<0.0068	<0.0065
Benzo(g,h,i)perylene	<1.3	<0.12	<0.13	<0.065	<0.12	<0.012	<0.013	<0.012	<0.011
Benzo(k)fluoranthene	<0.92	<0.087	<0.095	<0.046	<0.081	<0.0088	<0.0091	<0.0084	<0.0079
Chrysene	<0.87	<0.082	<0.09	<0.044	<0.077	<0.0083	<0.0086	<0.0079	<0.0075
Dibenz(a,h)anthracene	<1.1	<0.1	<0.11	<0.054	<0.095	<0.01	<0.011	<0.0098	<0.0093

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Table 1. Summary of Soil Analytical Results, Building Subsurface Investigation, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin.

Well/Boring	B-149		B-150	B-151		B-152	B-153		B-154
Sample Depth	0.7-2.7'	5.7-7.7'	1.0-3.0'	2-4'	9.1-11.1'	1.5-3.5'	0.7-2.7'	13.8-15.8'	5.2-7.2'
Sample Date	10/19/12	10/19/12	10/19/12	10/19/12	10/19/12	10/19/12	10/19/12	10/19/12	10/19/12
PAHs (continued)									
Fluoranthene	<1.6	<0.15	<0.16	<0.079	<0.14	<0.015	<0.016	<0.014	<0.014
Fluorene	<0.88	<0.083	<0.09	<0.044	<0.078	<0.0084	<0.0087	<0.008	<0.0076
Indeno(1,2,3-cd)pyrene	<1.3	<0.12	<0.13	<0.065	<0.12	<0.012	<0.013	<0.012	<0.011
Naphthalene	<0.75	<0.07	<0.076	0.06 J	0.088 J	<0.0071	<0.0074	<0.0068	<0.0064
Phenanthrene	<1.6	<0.15	<0.17	0.14 J	<0.14	<0.015	<0.016	<0.015	<0.014
Pyrene	<1.4	<0.13 *	<0.14	<0.07	<0.12 *	<0.013	<0.014	<0.013	<0.012
Metals and Cyanide									
Arsenic	***3.6***	***3.7***	***9.4***	***10***	***1.3***	***4.2***	***8***	***1.5***	***0.85 J***
Barium	150	60	90	110	12	56	120	16	12
Cadmium	0.15 J	0.16 J	0.074 J	0.054 J	0.12 J	0.10 J	0.15 J	0.14 J	0.12 J
Chromium	13	10	21	21	4.2	12	18	5.3	3.1
Cyanide, Total	<0.18	<0.18	<0.18	<0.18	<0.16	0.43 J	<0.17	<0.17	<0.15
Lead	12 B	21 B	14 B	14 B	2.5 B	6.2 B	12 B	2.9 B	1.4 B
Mercury	0.015 J	0.011 J	0.024	0.043	<0.0063	0.015 J	0.024	<0.0064	<0.0062
Selenium	0.51 J	<0.32	0.34 J	0.43 J	<0.27	0.36 J	0.73 J	<0.26	<0.29
Silver	0.095 J	<0.068	<0.068	<0.063	<0.056	<0.064	<0.063	<0.054	<0.061
PCBs									
Aroclor-1242	***10,000***	***12,000***	***2,800***	***25***	***1***	***0.57***	0.015 J	<0.0057	<0.0054
Arcolor-1248	<190	<370	<79	<0.78	<0.032	<0.036	<0.0077	<0.0068	<0.0065
Aroclor-1254	<100	<200	<43	<0.43	<0.018	<0.019	<0.0042	<0.0037	<0.0036
Total Dectected PCBs	10,000	12,000	2,800	25	1	0.57	0.015	ND	ND

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Table 1. Summary of Soil Analytical Results, Building Subsurface Investigation, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin.

Well/Boring	B-155		B-156	B-157	B-158	B-159		B-160	B-161	
Sample Depth	1.9-3.9'	5.0-7.0'	1.8-3.8'	1.8-3.8'	4-6'	2-4'	4.8-6.8'	0.9-2.9'	2-4'	13.2-15.2
Sample Date	10/19/12	10/19/12	10/20/12	10/19/12	10/17/12	10/17/12	10/18/12	10/17/12	10/18/12	10/18/12
VOCs										
1,2,4-Trichlorobenzene	<0.022	<0.019	<0.022	<0.022	0.051 J	<0.023	<0.02	<0.022	<0.022	<0.02
1,2,4-Trimethylbenzene	<0.012	<0.011	<0.012	<0.012	0.09 J	<0.013	<0.011	<0.012	<0.012	<0.011
1,2-Dichlorobenzene	<0.012	<0.01	<0.012	<0.012	0.098 J	<0.013	<0.011	<0.012	<0.012	<0.011
1,3,5-Trimethylbenzene	<0.012	<0.011	<0.012	<0.012	0.031 J	<0.013	<0.011	<0.012	<0.012	<0.011
cis-1,2-Dichloroethene	<0.0072	<0.0063	<0.0072	<0.0072	<0.0071	<0.0075	<0.0065	<0.0073	<0.0073	<0.0066
Ethylbenzene	<0.0074	<0.0064	<0.0074	<0.0073	<0.0073	<0.0077	<0.0066	<0.0074	<0.0075	<0.0068
Isopropylbenzene	<0.015	<0.013	<0.015	<0.015	0.16	<0.015	<0.013	<0.015	<0.015	<0.013
Naphthalene	<0.029	<0.025	<0.029	<0.029	<0.029	<0.03	<0.026	<0.029	<0.029	<0.027
n-Butylbenzene	<0.0075	<0.0066	<0.0076	<0.0075	<0.0075	<0.0079	<0.0068	<0.0076	<0.0076	<0.0069
N-Propylbenzene	<0.01	<0.0089	<0.01	<0.01	<0.01	<0.011	<0.0092	<0.01	<0.01	<0.0094
p-Isopropyltoluene	<0.011	<0.0094	<0.011	<0.011	<0.011	<0.011	<0.0097	<0.011	<0.011	<0.0099
sec-Butylbenzene	<0.009	<0.0079	<0.0091	<0.009	<0.0089	<0.0094	<0.0081	<0.0091	<0.0091	<0.0083
Tetrachloroethene	<0.0097	<0.0085	<0.0098	<0.0097	<0.0097	<0.01	<0.0088	<0.0098	<0.0099	<0.009
Toluene	<0.0067	<0.0059	<0.0068	<0.0067	<0.0067	<0.0071	<0.0061	<0.0068	<0.0068	<0.0062
Trichloroethene	<0.011	<0.0095	<0.011	<0.011	<0.011	<0.011	<0.0098	<0.011	<0.011	<0.01
Vinyl chloride	<0.0061	<0.0053	<0.0061	<0.0061	<0.006	<0.0064	<0.0055	<0.0061	<0.0062	<0.0056
Xylenes, Total	<0.004	<0.0035	<0.004	<0.004	<0.004	<0.0042	<0.0036	<0.004	<0.004	<0.0037
PAHs										
1-Methylnaphthalene	<0.019	<0.017	<0.018	<0.019	<0.91	<0.02	<0.017	<0.019	<0.019	<0.017
2-Methylnaphthalene	<0.049	<0.044	<0.048	<0.049	<2.4	<0.052	<0.045	<0.05	<0.05	<0.045
Acenaphthene	<0.011	<0.01	<0.011	<0.011	<0.55	<0.012	<0.01	<0.011	<0.012	<0.01
Acenaphthylene	<0.0087	<0.0077	<0.0085	<0.0088	<0.42	<0.0092	<0.0079	<0.0088	<0.0089	<0.008
Anthracene	<0.0089	<0.0079	<0.0087	<0.009	<0.43	<0.0094	<0.0081	<0.009	<0.0091	<0.0082
Benzo(a)anthracene	<0.008	<0.007	<0.0078	<0.008	<0.38	<0.0084	<0.0072	<0.008	<0.0081	<0.0073
Benzo(a)pyrene	<0.0069	<0.0061	<0.0067	<0.0069	<0.33	<0.0073	<0.0063	<0.007	<0.0071	<0.0064
Benzo(b)fluoranthene	<0.0074	<0.0065	<0.0072	<0.0074	<0.36	<0.0078	<0.0067	<0.0074	<0.0076	<0.0068
Benzo(g,h,i)perylene	<0.013	<0.011	<0.012	<0.013	<0.62	<0.013	<0.012	<0.013	<0.013	<0.012
Benzo(k)fluoranthene	<0.0091	<0.008	<0.0088	<0.0091	<0.44	<0.0095	<0.0082	<0.0091	<0.0093	<0.0083
Chrysene	<0.0086	<0.0076	<0.0084	<0.0086	<0.41	<0.009	<0.0078	<0.0086	<0.0088	<0.0079
Dibenz(a,h)anthracene	<0.011	<0.0094	<0.01	<0.011	<0.51	<0.011	<0.0096	<0.011	<0.011	<0.0098

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Table 1. Summary of Soil Analytical Results, Building Subsurface Investigation, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin.

Well/Boring	B-155		B-156	B-157	B-158	B-159		B-160	B-161	
Sample Depth	1.9-3.9'	5.0-7.0'	1.8-3.8'	1.8-3.8'	4-6'	2-4'	4.8-6.8'	0.9-2.9'	2-4'	13.2-15.2
Sample Date	10/19/12	10/19/12	10/20/12	10/19/12	10/17/12	10/17/12	10/18/12	10/17/12	10/18/12	10/18/12
PAHs (continued)										
Fluoranthene	<0.016	<0.014	0.024 J	<0.016	<0.75	<0.016	<0.014	<0.016	<0.016	<0.014
Fluorene	<0.0087	<0.0076	<0.0084	<0.0087	<0.42	<0.0091	<0.0078	<0.0087	<0.0088	<0.008
Indeno(1,2,3-cd)pyrene	<0.013	<0.011	<0.012	<0.013	<0.62	<0.013	<0.012	<0.013	<0.013	<0.012
Naphthalene	<0.0073	<0.0065	<0.0071	<0.0073	<0.35	<0.0077	<0.0067	<0.0074	<0.0075	<0.0067
Phenanthrene	<0.016	<0.014	0.023 J	<0.016	<0.77	<0.017	<0.014	<0.016	<0.016	<0.015
Pyrene	<0.014	<0.012	0.019 J *	<0.014	<0.66	<0.014	<0.012	<0.014	<0.014	<0.013
Metals and Cyanide										
Arsenic	***7***	***1.8***	***8.2***	***7.4***	***5.4***	***7.3***	***1.3***	***5.4***	***7.3***	***6.1***
Barium	100	15	130	100	84	110	14	79	83	68
Cadmium	0.12 J	0.12 J	0.098 J	0.090 J	0.089 J	0.067 J	0.13 J	0.085 J	0.069 J	0.23
Chromium	15	4.1	21	19	14	15	3.8	17	15	16
Cyanide, Total	0.37 J	0.39 J	<0.16	<0.19	<0.17	<0.18	<0.17	<0.18	<0.18	<0.17
Lead	12 B	2.4 B	15 B	13 B	7.4	11	2.2	8	13	70
Mercury	0.038	<0.0063	0.037	0.058	0.047	0.064	<0.0064	0.017 J	0.049	<0.006
Selenium	<0.32	<0.28	0.35 J	<0.31	<0.32	<0.3	<0.28	<0.32	<0.31	0.47 J
Silver	<0.067	<0.058	<0.068	<0.065	<0.066	<0.064	<0.058	<0.068	<0.065	<0.064
PCBs										
Aroclor-1242	<0.0063	0.0096 J	***0.35***	0.013 J	***1,900 B***	***4.2 B***	0.046	***200 B***	0.19	0.0092 J
Arcolor-1248	<0.0076	<0.0065	<0.0075	<0.0074	<73	<0.15	<0.0068	<7.7	<0.0078	<0.0069
Aroclor-1254	<0.0041	<0.0036	<0.0041	<0.004	<40	<0.084	<0.0037	<4.2	<0.0043	<0.0038
Total Dectected PCBs	ND	0.0096	0.35	0.013	1,900	4.2	0.046	200	0.19	0.0092

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Table 1. Summary of Soil Analytical Results, Building Subsurface Investigation, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin.

Well/Boring	B-162	B-163	B-164		B-165	B-166		B-167	B-168
Sample Depth	1.3-3.3'	5-7'	2-4'	4-6'	0.6-2.6'	1.3-3.3'	9.1-11.1'	0.9-2.8	4-6'
Sample Date	10/18/12	10/18/12	10/18/12	10/18/12	10/18/12	10/18/12	10/18/12	10/18/12	10/20/12
VOCs									
1,2,4-Trichlorobenzene	<0.023	<0.02	<0.023	<0.023 H	<0.023	<0.022	<0.02	<0.023	<0.021
1,2,4-Trimethylbenzene	<0.013	<0.011	<0.013	<0.013 H	<0.013	<0.012	<0.011	<0.013	<0.012
1,2-Dichlorobenzene	<0.012	<0.011	<0.012	<0.012 H	<0.012	<0.012	<0.011	<0.012	<0.011
1,3,5-Trimethylbenzene	<0.013	<0.011	<0.013	<0.013 H	<0.013	<0.012	<0.011	<0.013	<0.011
cis-1,2-Dichloroethene	<0.0075	<0.0065	<0.0075	<0.0075 H	<0.0075	<0.0071	<0.0066	<0.0075	<0.0068
Ethylbenzene	<0.0076	<0.0066	<0.0077	<0.0077 H	<0.0077	<0.0072	<0.0067	<0.0076	<0.007
Isopropylbenzene	<0.015	<0.013	<0.015	<0.015 H	<0.015	<0.014	<0.013	<0.015	<0.014
Naphthalene	<0.03	<0.026	<0.03	<0.03 H *	0.043 J	<0.028	<0.026	<0.03	<0.027
n-Butylbenzene	<0.0078	<0.0068	<0.0078	<0.0078 H	<0.0079	<0.0074	<0.0069	<0.0078	<0.0072
N-Propylbenzene	<0.011	<0.0092	<0.011	<0.011 H	<0.011	<0.01	<0.0094	<0.011	<0.0097
p-Isopropyltoluene	<0.011	<0.0097	<0.011	<0.011 H	<0.011	<0.011	<0.0099	<0.011	<0.01
sec-Butylbenzene	<0.0093	<0.0081	<0.0094	<0.0094 H	<0.0094	<0.0088	<0.0082	<0.0093	<0.0085
Tetrachloroethene	<0.01	0.032 J	0.098	0.34 H	0.036 J	0.19	<0.0089	0.37	<0.0093
Toluene	<0.007	<0.006	<0.007	<0.007 H	<0.007	<0.0066	<0.0062	<0.007	<0.0064
Trichloroethene	<0.011	<0.0098	<0.011	0.019 J H	<0.011	<0.011	<0.01	<0.011	<0.01
Vinyl chloride	<0.0063	<0.0055	<0.0063	<0.0063 H	<0.0063	<0.006	<0.0056	<0.0063	<0.0058
Xylenes, Total	<0.0042	<0.0036	<0.0042	<0.0042 H	<0.0042	<0.0039	<0.0037	<0.0042	<0.0038
PAHs									
1-Methylnaphthalene	<0.019	<0.017	<0.019	0.045 H	<0.098	<0.094	<0.017	<0.19	<0.017
2-Methylnaphthalene	<0.05	<0.045	<0.05	<0.052 H	<0.26	<0.25	<0.044	<0.5	<0.045
Acenaphthene	<0.012	<0.01	<0.012	<0.012 H	0.094 J	<0.057	<0.01	<0.12	<0.01
Acenaphthylene	<0.0089	<0.0079	<0.0088	<0.0092 H	<0.045	<0.043	<0.0078	<0.089	<0.008
Anthracene	<0.0091	<0.0081	<0.009	<0.0094 H	0.12 J	0.092 J	<0.008	<0.091	<0.0082
Benzo(a)anthracene	<0.0081	<0.0072	<0.0081	0.009 J H	***0.34***	***0.44***	<0.0071	***0.23 J***	<0.0073
Benzo(a)pyrene	<0.007	<0.0063	<0.007	0.0079 J H	***0.37***	***0.4***	<0.0062	***0.21 J***	<0.0063
Benzo(b)fluoranthene	<0.0075	<0.0067	<0.0075	<0.0078 H	***0.42***	***0.39***	<0.0066	***0.18 J***	<0.0068
Benzo(g,h,i)perylene	<0.013	<0.012	<0.013	<0.013 H	0.23	0.28	<0.011	0.17 J	<0.012
Benzo(k)fluoranthene	<0.0092	<0.0082	<0.0092	<0.0095 H	0.24	0.34	<0.0081	0.19 J	<0.0083
Chrysene	<0.0087	<0.0078	<0.0087	<0.009 H	0.55	0.43	<0.0077	0.22 J	<0.0079
Dibenz(a,h)anthracene	<0.011	<0.0096	<0.011	<0.011 H	<0.055	***0.13 J***	<0.0095	<0.11	<0.0097

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Table 1. Summary of Soil Analytical Results, Building Subsurface Investigation, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin.

Well/Boring	B-162	B-163	B-164		B-165	B-166		B-167	B-168
Sample Depth	1.3-3.3'	5-7'	2-4'	4-6'	0.6-2.6'	1.3-3.3'	9.1-11.1'	0.9-2.8	4-6'
Sample Date	10/18/12	10/18/12	10/18/12	10/18/12	10/18/12	10/18/12	10/18/12	10/18/12	10/20/12
PAHs (continued)									
Fluoranthene	<0.016	<0.014	<0.016	<0.016 H	1.4	0.94	<0.014	0.54	<0.014
Fluorene	<0.0088	<0.0078	<0.0087	<0.0091 H	0.095 J	<0.043	<0.0077	<0.088	<0.0079
Indeno(1,2,3-cd)pyrene	<0.013	<0.012	<0.013	<0.013 H	***0.21***	***0.25***	<0.011	0.14 J	<0.012
Naphthalene	<0.0074	0.013 J	<0.0074	0.0099 J H	0.17 J	<0.036	<0.0065	<0.074	<0.0067
Phenanthrene	<0.016	<0.014	<0.016	0.032 J H	1.3	0.45	<0.014	0.25 J	<0.015
Pyrene	<0.014	<0.012	<0.014	<0.014 H	0.99	0.76	<0.012	0.39	<0.013 *
Metals and Cyanide									
Arsenic	***8.6***	***1.4***	***1.6***	***3.0 B***	***6.7***	***3.4***	***6.9***	***1.5***	***11***
Barium	150	14	16	52 V	130	36	93	12	61
Cadmium	0.088 J	0.13 J	0.16 J	0.18 J	0.071 J	0.26	0.12 J	0.13 J	0.28
Chromium	19	4.2	3.9	7.6	17	7.2	13	3.5	10
Cyanide, Total	<0.18	<0.16	<0.2	<0.2 H	<0.18	<0.18	<0.17	<0.17	<0.18
Lead	13	2.4	5.1	5.8	12	25	12	2.2	14 B
Mercury	0.025	<0.0065	0.037	0.0085 J	0.015 J	0.021	<0.0064	0.04	0.014 J
Selenium	<0.35	<0.26	<0.34	0.43 J B ^	0.42 J	<0.31	0.48 J	<0.32	0.88 J
Silver	<0.072	<0.055	<0.07	<0.069	<0.068	<0.065	<0.062	<0.066	<0.065
PCBs									
Aroclor-1242	0.013 J	<0.0057	<0.0066	0.062	0.025	***2.3 B***	0.02	<0.0063	***0.99***
Arcolor-1248	<0.0077	<0.0068	<0.0079	<0.0078	<0.0079	<0.071	<0.0068	<0.0076	<0.035
Aroclor-1254	<0.0042	<0.0037	<0.0043	<0.0043	<0.0043	<0.039	<0.0038	0.036	<0.019
Total Dectected PCBs	0.013	ND	ND	0.062	0.025	2.3	0.02	0.036	0.99

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Table 1. Summary of Soil Analytical Results, Building Subsurface Investigation, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin.

Well/Boring	B-169		B-170	B-171		B-172	B-173		B-174
Sample Depth	0.9-2.9'	6-8'	4-6'	0.7-2.7'	8.8-10.8'	5-7'	1.6-3.6'	8-10'	0-2'
Sample Date	10/20/12	10/20/12	10/21/12	10/21/12	10/21/12	10/21/12	10/21/12	10/21/12	10/25/12
VOCs									
1,2,4-Trichlorobenzene	<0.02	<0.022	<0.021	<0.023	<0.02	<0.024	<0.023	<0.02	<0.035
1,2,4-Trimethylbenzene	<0.011	<0.012	<0.012	<0.013	<0.011	<0.013	<0.013	<0.011	<0.02
1,2-Dichlorobenzene	<0.011	<0.012	<0.011	<0.013	<0.011	<0.013	<0.013	<0.011	<0.019
1,3,5-Trimethylbenzene	<0.011	<0.012	<0.011	<0.013	<0.011	<0.013	<0.013	<0.011	<0.019
cis-1,2-Dichloroethene	<0.0064	<0.0071	<0.0067	<0.0076	<0.0066	<0.0077	<0.0076	<0.0067	<0.011
Ethylbenzene	<0.0066	<0.0073	<0.0069	<0.0078	<0.0067	<0.0079	<0.0078	<0.0068	<0.012
Isopropylbenzene	<0.013	<0.015	<0.014	<0.016	<0.013	<0.016	<0.016	<0.014	<0.023
Naphthalene	<0.026	<0.029	<0.027	<0.031	<0.026	<0.031	<0.031	<0.027	<0.046
n-Butylbenzene	<0.0068	<0.0075	<0.007	<0.008	<0.0069	<0.0081	<0.008	<0.007	<0.012
N-Propylbenzene	<0.0092	<0.01	<0.0096	<0.011	<0.0093	<0.011	<0.011	<0.0095	<0.016
p-Isopropyltoluene	<0.0097	<0.011	<0.01	<0.011	<0.0099	<0.012	<0.011	<0.01	<0.017
sec-Butylbenzene	<0.0081	<0.0089	<0.0084	<0.0095	<0.0082	<0.0097	<0.0095	<0.0083	<0.014
Tetrachloroethene	<0.0088	<0.0097	0.059	0.096	<0.0089	0.045 J	1.3	0.13	0.085 J
Toluene	<0.006	<0.0066	<0.0063	<0.0071	<0.0061	<0.0072	<0.0071	<0.0062	<0.011
Trichloroethene	<0.0097	<0.011	<0.01	<0.012	<0.0099	<0.012	0.018 J	<0.01	<0.017
Vinyl chloride	<0.0055	<0.006	<0.0057	<0.0064	<0.0055	<0.0065	<0.0064	<0.0056	<0.0097
Xylenes, Total	<0.0036	<0.004	<0.0037	<0.0042	<0.0036	<0.0043	<0.0042	<0.0037	<0.0064
PAHs									
1-Methylnaphthalene	<0.17	<0.019	<0.017	<0.1	<0.017	<0.02	<0.02	<0.017	<0.68
2-Methylnaphthalene	<0.44	<0.048	<0.045	<0.27	<0.044	<0.053	<0.053	<0.044	<1.8
Acenaphthene	<0.1	<0.011	<0.01	<0.062	<0.01	<0.012	<0.012	<0.01	<0.41
Acenaphthylene	<0.078	<0.0086	<0.008	<0.047	<0.0077	<0.0094	<0.0094	<0.0078	<0.31
Anthracene	<0.08	<0.0088	<0.0082	<0.048	<0.0079	<0.0096	<0.0096	<0.0079	<0.32
Benzo(a)anthracene	<0.071	<0.0078	<0.0073	***0.15 J***	<0.0071	<0.0086	<0.0086	<0.0071	<0.29
Benzo(a)pyrene	<0.062	<0.0068	<0.0063	***0.16 J***	<0.0061	<0.0074	<0.0075	<0.0062	<0.25
Benzo(b)fluoranthene	<0.066	<0.0072	<0.0067	***0.21***	<0.0065	<0.0079	<0.008	<0.0066	<0.26
Benzo(g,h,i)perylene	<0.11	<0.013	<0.012	0.19 J	<0.011	<0.014	<0.014	<0.011	<0.46
Benzo(k)fluoranthene	<0.081	<0.0089	<0.0083	0.11 J	<0.008	<0.0097	<0.0098	<0.0081	<0.32
Chrysene	<0.077	<0.0084	<0.0078	0.23	<0.0076	<0.0092	<0.0093	<0.0076	<0.31
Dibenz(a,h)anthracene	<0.095	<0.01	<0.0097	<0.057	<0.0094	<0.011	<0.011	<0.0094	<0.38

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Table 1. Summary of Soil Analytical Results, Building Subsurface Investigation, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin.

Well/Boring	B-169		B-170	B-171		B-172	B-173		B-174
Sample Depth	0.9-2.9'	6-8'	4-6'	0.7-2.7'	8.8-10.8'	5-7'	1.6-3.6'	8-10'	0-2'
Sample Date	10/20/12	10/20/12	10/21/12	10/21/12	10/21/12	10/21/12	10/21/12	10/21/12	10/25/12
PAHs (continued)									
Fluoranthene	<0.14	<0.015	<0.014	0.52	<0.014	<0.017	<0.017	<0.014	<0.56
Fluorene	<0.077	<0.0085	<0.0079	<0.047	<0.0077	<0.0093	<0.0093	<0.0077	<0.31
Indeno(1,2,3-cd)pyrene	<0.11	<0.013	<0.012	0.14 J	<0.011	<0.014	<0.014	<0.011	<0.46
Naphthalene	<0.065	<0.0072	<0.0067	<0.04	<0.0065	<0.0079	<0.0079	<0.0065	<0.26
Phenanthrene	<0.14	<0.016	<0.015	0.3	<0.014	<0.017	<0.017	<0.014	<0.57
Pyrene	<0.12 *	<0.013 *	<0.013 *	0.33	<0.012	<0.015	<0.015	<0.012	<0.49
Metals and Cyanide									
Arsenic	***1.2***	***8***	***1.8***	***5.8***	0.37 J	***6***	***7.7***	***1.7***	***1.2***
Barium	15	150	23	96	4.7	89	98	18	25
Cadmium	0.14 J	0.083 J	0.047 J	0.12 J	0.093 J	0.15 J	0.089 J	0.14 J	1.1
Chromium	4	21	5.5	15	1.9	21	20	6.6	6.3
Cyanide, Total	<0.14	<0.19	<0.18	<0.2	<0.16	<0.19	<0.14	<0.16	0.15 J
Lead	2.9 B	15 B	3.2 B	14 B	0.9	10 ^	14 ^	2.7	99
Mercury	<0.0063	0.017 J	<0.0067	0.021	<0.0059	0.03	0.038	<0.0064	<0.0064
Selenium	<0.26	0.79 J	<0.26	0.64 J	0.41 J	0.32 J	0.65 J	0.31 J	0.30 J
Silver	<0.055	<0.064	<0.055	<0.064	<0.055	<0.064	<0.073	<0.057	<0.06
PCBs									
Aroclor-1242	***0.31***	***1.3***	0.067	0.076	<0.0058	<0.0065	0.033	0.023	<0.29
Arcolor-1248	<0.0065	<0.036	<0.007	<0.0079	<0.007	<0.0078	<0.0079	<0.0071	<0.35
Aroclor-1254	<0.0036	<0.02	<0.0039	<0.0043	<0.0038	0.018 J	<0.0043	<0.0039	<0.19
Total Dectected PCBs	0.31	1.3	0.067	0.076	ND	0.018	0.033	0.023	ND

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Table 1. Summary of Soil Analytical Results, Building Subsurface Investigation, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin.

Well/Boring	MW-22S		MW-23S	
Sample Depth	**27-29'**	**34-36'****	**27-29'**	**34-36'****
Sample Date	**01/04/13**	**01/04/13**	**01/03/13**	**01/03/13**
VOCs				
1,2,4-Trichlorobenzene	<0.03	<0.031	<0.033	<0.026
1,2,4-Trimethylbenzene	<0.017	<0.017	<0.019	<0.014
1,2-Dichlorobenzene	<0.016	<0.017	<0.018	<0.014
1,3,5-Trimethylbenzene	<0.016	<0.017	<0.018	<0.014
cis-1,2-Dichloroethene	<0.0098	<0.01	<0.011	<0.0084
Ethylbenzene	<0.01	<0.01	<0.011	<0.0086
Isopropylbenzene	<0.02	<0.02	<0.022	<0.017
Naphthalene	<0.039	<0.04	<0.043	<0.034
n-Butylbenzene	<0.01	<0.011	<0.011	<0.0088
N-Propylbenzene	<0.014	<0.014	<0.015	<0.012
p-Isopropyltoluene	<0.015	<0.015	<0.016	<0.013
sec-Butylbenzene	<0.012	<0.013	<0.014	<0.011
Tetrachloroethene	<0.013	<0.014	<0.015	0.12
Toluene	<0.0092	<0.0094	<0.01	<0.0079
Trichloroethene	<0.015	<0.015	<0.016	<0.013
Vinyl chloride	<0.0083	<0.0085	<0.0092	<0.0071
Xylenes, Total	<0.0054	<0.0056	<0.006	<0.0047
PAHs				
1-Methylnaphthalene	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA
Acenaphthene	NA	NA	NA	NA
Acenaphthylene	NA	NA	NA	NA
Anthracene	NA	NA	NA	NA
Benzo(a)anthracene	NA	NA	NA	NA
Benzo(a)pyrene	NA	NA	NA	NA
Benzo(b)fluoranthene	NA	NA	NA	NA
Benzo(g,h,i)perylene	NA	NA	NA	NA
Benzo(k)fluoranthene	NA	NA	NA	NA
Chrysene	NA	NA	NA	NA
Dibenz(a,h)anthracene	NA	NA	NA	NA

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Table 1. Summary of Soil Analytical Results, Building Subsurface Investigation, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin.

Well/Boring	MW-22S		MW-23S	
Sample Depth	**27-29'**	**34-36'****	**27-29'**	**34-36'****
Sample Date	**01/04/13**	**01/04/13**	**01/03/13**	**01/03/13**
PAHs (continued)				
Fluoranthene	NA	NA	NA	NA
Fluorene	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA
Phenanthrene	NA	NA	NA	NA
Pyrene	NA	NA	NA	NA
Metals and Cyanide				
Arsenic	NA	NA	NA	NA
Barium	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA
Chromium	NA	NA	NA	NA
Cyanide, Total	NA	NA	NA	NA
Lead	NA	NA	NA	NA
Mercury	NA	NA	NA	NA
Selenium	NA	NA	NA	NA
Silver	NA	NA	NA	NA
PCBs				
Aroclor-1242	0.028	***0.72***	<0.0055	<0.0058
Arcolor-1248	<0.0068	<0.014	<0.0066	<0.007
Aroclor-1254	<0.0037	<0.0078	<0.0036	<0.0038
Total Dectected PCBs	0.028	0.72	ND	ND

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Table 1. Summary of Soil Analytical Results, Building Subsurface Investigation, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin.

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

100	Exceeds the WDNR's soil to groundwater pathway residual contaminant level.
100	Exceeds the WDNR's non-industrial direct contact residual contaminant level.
100	Exceeds the WDNR's industrial direct contact residual contaminant level.
100	Exceeds the Toxic Substance Control Act disposal limit.
100	Exceeds the EPA's self-implementing high-occupancy cleanup level with no site restrictions.
0-2'	Soil sample collection depth in feet below ground surface.
*	Laboratory Control Spike or Laboratory Control Spike Duplicate exceeds the control limits.
**	Soil samples were collected from beneath the water table.
^	Instrument related quality control exceeds the control limits.
<	Constituent not detected above noted laboratory detection limit.
B	Compound was found in the blank and sample.
H	Sample was prepped or analyzed beyond the specified holding time.
J	Constituent concentration is an approximate value.
NA	Not analyzed.
ND	Total PCBs less than the laboratory detection limit.
NE	Criteria not established.
PAH	Polycyclic Aromatic Hydrocarbons.
PCBs	Polychlorinated biphenyls.
RCL	Residual contaminant level.
TSCA	Toxic Substance Control Act.
U.S. EPA	United States Environmental Protection Agency
V	Serial dilution exceeds the control limits.
VOCs	Volatile organic compounds.

Table 1. Summary of Soil Analytical Results, Building Subsurface Investigation Summary, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin.

Boring ID	Industrial	EPA	TSCA	B-136			B-148		
Sample Date	Direct	High Occpancy	Disposal	10/25/2012	1/15/2014	1/15/2014	10/19/2012	1/2/2014	1/2/2014
Sample Depth (feet bls)	Contact RCL	Cleanp Level	Limit	2-4	4-6	10-12	5.8-7.8	10-12	17.5-19.5
VOCs									
1,2,3-Trichlorobenzene	151	NE	NE	<0.69	<0.039	<0.047	<0.02	<0.03	<0.031
1,2,4-Trichlorobenzene	98.7	NE	NE	<0.75	<0.042	<0.051	0.15	0.16 J	<0.033
1,2,4-Trimethylbenzene	219	NE	NE	50	0.094 J	0.67	0.53	0.2	<0.019
1,2-Dichlorobenzene	376	NE	NE	<0.41	<0.023	<0.028	<0.012	<0.018	<0.018
1,3,5-Trimethylbenzene	182	NE	NE	19	<0.023	0.22 J	0.19	0.053 J	<0.018
1,3-Dichlorobenzene	297	NE	NE	<0.51	<0.028	<0.035	<0.015	<0.022	<0.023
1,4-Dichlorobenzene	17.5	NE	NE	<0.34	<0.019	<0.023	<0.01	<0.015	<0.015
cis-1,2-Dichloroethene	2,040	NE	NE	<0.24	<0.014	<0.017	0.13	<0.011	<0.011
Ethylbenzene	37	NE	NE	<0.25	<0.014	<0.017	<0.0072	<0.011	<0.011
Isopropylbenzene	268	NE	NE	<0.5	<0.028	<0.034	0.21	<0.022	<0.022
Naphthalene	26	NE	NE	6.5	<0.055	<0.066	0.15	0.089 J	<0.044
N-Btylbenzene	108	NE	NE	<0.26	<0.014	0.18	<0.0074	0.059 J	<0.011
N-Propylbenzene	264	NE	NE	2.1 J	<0.019	0.071 J	0.069 J	<0.015	<0.016
p-Isopropyltolene	162	NE	NE	8.7	<0.02	0.12 J	0.064 J	<0.016	<0.016
sec-Btylbenzene	145	NE	NE	4.2	<0.017	0.081 J	0.073	<0.013	<0.014
Tetrachloroethene	153	NE	NE	<0.33	0.14	0.16	2	1.4	<0.015
Tolene	818	NE	NE	<0.23	<0.013	<0.015	<0.0066	<0.0099	<0.01
trans-1,2-Dichloroethene	976	NE	NE	<0.49	<0.028	<0.034	<0.014	<0.022	<0.022
Trichloroethene	8.81	NE	NE	<0.37	0.029 J	<0.025	0.068	<0.016	<0.016
Vinyl Chloride	2.03	NE	NE	<0.21	<0.012	<0.014	0.02	<0.009	<0.0092
Total Xylenes	258	NE	NE	<0.14	<0.0076	<0.0092	0.092	<0.0059	<0.0061
PCBs									
Aroclor 1242	0.744	NE	NE	**56**	**12**	**11**	**20,000**	**1,600**	**1.1**
Aroclor 1248	0.744	NE	NE	<1.6	<0.4	<0.34	<380	<34	<0.035
Aroclor 1254	0.744	NE	NE	<0.89	<0.22	<0.19	<210	<19	<0.019
Total Detected PCBs	NE	1	50	***56***	***12***	***11***	***20,000***	***1,600***	***1.1***

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Table 1. Summary of Soil Analytical Results, Building Subsurface Investigation Summary, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin.

Boring ID	B-149				B-150			B-158	
Sample Date	10/19/2012	10/19/2012	1/2/2014	1/2/2014	10/19/2012	1/2/2014	1/2/2014	10/17/2012	12/30/2013
Sample Depth (feet bls)	0.7-2.7	5.7-7.7	8-10	10-11.4	1-3	13-15	18-20	4-6	8-9
VOCs									
1,2,3-Trichlorobenzene	<0.021	<0.02	<0.031	<0.03	<0.021	<0.03	<0.029	<0.02	<0.032
1,2,4-Trichlorobenzene	<0.023	<0.021	<0.034	<0.032	<0.023	<0.033	<0.031	0.051 J	0.083 J
1,2,4-Trimethylbenzene	0.29	<0.012	0.31	0.28	<0.013	0.079 J	0.1 J	0.09 J	0.19
1,2-Dichlorobenzene	<0.012	<0.012	<0.018	<0.017	<0.013	<0.018	<0.017	0.098 J	<0.019
1,3,5-Trimethylbenzene	0.1 J	<0.012	0.096 J	0.091 J	<0.013	<0.018	<0.017	0.031 J	0.055 J
1,3-Dichlorobenzene	<0.015	<0.015	<0.023	<0.022	<0.016	<0.022	<0.021	<0.015	<0.023
1,4-Dichlorobenzene	<0.01	<0.0099	<0.016	<0.015	<0.011	<0.015	<0.014	<0.01	<0.016
cis-1,2-Dichloroethene	<0.0074	<0.007	<0.011	<0.01	<0.0075	0.18	0.36	<0.0071	<0.011
Ethylbenzene	<0.0076	<0.0071	<0.011	<0.011	<0.0077	<0.011	<0.01	<0.0073	<0.011
Isopropylbenzene	0.043 J	<0.014	<0.022	<0.021	<0.015	<0.022	<0.021	0.16	0.28
Naphthalene	<0.03	<0.028	<0.044	0.11 J	<0.03	<0.043	0.095 J	<0.029	<0.045
N-Btylbenzene	<0.0078	<0.0073	0.069 J	0.066 J	<0.0079	<0.011	<0.011	<0.0075	<0.012
N-Propylbenzene	0.038 J	<0.0099	<0.016	<0.015	<0.011	<0.015	<0.014	<0.01	<0.016
p-Isopropyltolene	<0.011	<0.01	<0.017	<0.016	<0.011	<0.016	<0.015	<0.011	<0.017
sec-Btylbenzene	<0.0093	<0.0087	<0.014	<0.013	<0.0094	<0.013	<0.013	<0.0089	<0.014
Tetrachloroethene	0.12	0.046 J	0.077 J	0.3	0.038 J	1.9	3.1	<0.0097	0.055 J
Tolene	0.01 J	<0.0065	<0.01	0.03	<0.007	<0.0099	<0.0095	<0.0067	<0.01
trans-1,2-Dichloroethene	<0.015	<0.014	<0.022	<0.021	<0.015	<0.022	<0.021	<0.015	<0.023
Trichloroethene	0.016 J	<0.011	<0.017	<0.016	<0.011	0.068	0.14	<0.011	<0.017
Vinyl Chloride	<0.0063	<0.0059	<0.0093	<0.0088	<0.0064	<0.009	<0.0086	<0.006	<0.0094
Total Xylenes	0.051	<0.0039	0.05	0.072	<0.0042	<0.0059	<0.0057	<0.004	<0.0062
PCBs									
Aroclor 1242	**10,000**	**12,000**	**800**	**27**	**2,800**	**12**	0.32	**1,900 B**	**340**
Aroclor 1248	<190	<370	<35	<1.3	<79	<0.68	<0.0068	<73	<13
Aroclor 1254	<100	<200	<19	<0.72	<43	<0.37	<0.0037	<40	<7.3
Total Detected PCBs	***10,000***	***12,000***	***800***	***27***	***2,800***	***12***	0.32	***1,900***	***340***

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Table 1. Summary of Soil Analytical Results, Building Subsurface Investigation Summary, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin.

Boring ID	B-158 (continued)		B-160			B-175			B-176
Sample Date	12/30/2013	1/3/2014	10/17/2012	1/3/2014	1/3/2014	12/30/2013	12/30/2013	12/30/2013	12/30/2013
Sample Depth (feet bls)	10-12	15-17	0.9-2.9	12-14	17-19	2-4	14-16	18.5-20.5	2-4
VOCs									
1,2,3-Trichlorobenzene	<0.034	0.47	<0.021	<0.028	<0.028	<0.035	<0.03	<0.031	<0.039
1,2,4-Trichlorobenzene	<0.037	0.34	<0.022	<0.03	<0.03	<0.038	<0.033	<0.034	<0.042
1,2,4-Trimethylbenzene	0.29	0.32	<0.012	<0.017	<0.017	<0.021	<0.018	<0.019	<0.024
1,2-Dichlorobenzene	<0.02	0.5	<0.012	<0.016	<0.017	<0.021	<0.018	<0.018	<0.023
1,3,5-Trimethylbenzene	0.086 J	0.086 J	<0.012	<0.016	<0.017	<0.021	<0.018	<0.018	<0.023
1,3-Dichlorobenzene	<0.025	0.37	<0.015	<0.02	<0.021	<0.026	<0.022	<0.023	<0.029
1,4-Dichlorobenzene	<0.017	0.2	<0.01	<0.014	<0.014	<0.017	<0.015	<0.016	<0.02
cis-1,2-Dichloroethene	0.071 J	0.23	<0.0073	<0.0098	<0.0099	<0.012	<0.011	<0.011	<0.014
Ethylbenzene	<0.012	<0.011	<0.0074	<0.01	<0.01	<0.013	<0.011	<0.011	<0.014
Isopropylbenzene	0.26	0.41	<0.015	<0.02	<0.02	<0.025	<0.022	<0.022	<0.028
Naphthalene	<0.048	0.11 J	<0.029	<0.039	<0.04	<0.05	<0.043	<0.044	<0.055
N-Btylbenzene	0.071 J	0.085	<0.0076	<0.01	<0.01	<0.013	<0.011	<0.012	<0.014
N-Propylbenzene	<0.017	<0.015	<0.01	<0.014	<0.014	<0.018	<0.015	<0.016	<0.02
p-Isopropyltolene	<0.018	<0.016	<0.011	<0.015	<0.015	<0.019	<0.016	<0.017	<0.021
sec-Btylbenzene	<0.015	<0.013	<0.0091	<0.012	<0.012	<0.015	<0.013	<0.014	<0.017
Tetrachloroethene	0.96	0.64	<0.0098	<0.013	<0.013	<0.017	<0.014	<0.015	<0.019
Tolene	0.024	0.017 J	<0.0068	<0.0092	<0.0093	<0.012	0.026	<0.01	0.083
trans-1,2-Dichloroethene	<0.024	<0.021	<0.015	<0.02	<0.02	<0.025	<0.022	<0.022	<0.028
Trichloroethene	<0.018	0.04 J	<0.011	<0.015	<0.015	<0.019	<0.016	<0.017	<0.021
Vinyl Chloride	<0.01	<0.0089	<0.0061	<0.0083	<0.0084	<0.01	<0.009	<0.0093	<0.012
Total Xylenes	0.084	0.031 J	<0.004	<0.0054	<0.0055	<0.0069	<0.0059	<0.0061	<0.0077
PCBs									
Aroclor 1242	**170**	**1,100**	**200 B**	**1.8**	<0.0058	0.051	<0.0056	0.011 J	0.017 J
Aroclor 1248	<3.4	<33	<7.7	<0.067	<0.007	<0.0081	<0.0068	<0.007	<0.0078
Aroclor 1254	<1.9	<18	<4.2	<0.036	<0.0038	<0.0044	<0.0037	<0.0038	<0.0042
Total Detected PCBs	***170***	***1,100***	***200***	***1.8***	ND	0.051	ND	0.011	0.017

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Table 1. Summary of Soil Analytical Results, Building Subsurface Investigation Summary, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin.

Boring ID	B-176 (continued)		B-177	B-178			B-179			
Sample Date	12/30/2013	12/30/2013	1/3/2014	1/2/2014	1/2/2014	1/2/2014	1/3/2014	1/3/2014	1/3/2014	1/4/2014
Sample Depth (feet bls)	12-14	18.5-20.5	2-4	2-4	6-7.5	9-11	2-4	4-6	9-11	21.1-23.1
VOCs										
1,2,3-Trichlorobenzene	<0.027	<0.031	<0.044	<0.035	<0.037	<0.031	<0.034	<0.039	<0.019	<0.031
1,2,4-Trichlorobenzene	<0.029	<0.033	<0.047	<0.038	<0.04	<0.034	<0.037	<0.042	0.16	<0.033
1,2,4-Trimethylbenzene	<0.016	<0.019	<0.026	<0.021	<0.022	<0.019	0.14 J	0.32	0.33	<0.019
1,2-Dichlorobenzene	<0.016	<0.018	<0.025	<0.021	<0.022	<0.018	<0.02	<0.023	<0.011	<0.018
1,3,5-Trimethylbenzene	<0.016	<0.018	<0.026	<0.021	<0.022	<0.018	<0.02	0.086 J	0.084 J	<0.018
1,3-Dichlorobenzene	<0.02	<0.023	<0.032	<0.026	<0.027	<0.023	<0.025	<0.029	<0.014	<0.023
1,4-Dichlorobenzene	<0.013	<0.015	<0.022	<0.018	<0.018	<0.016	<0.017	<0.02	<0.0093	<0.015
cis-1,2-Dichloroethene	<0.0095	<0.011	<0.015	<0.012	<0.013	<0.011	<0.012	<0.014	<0.0066	<0.011
Ethylbenzene	<0.0097	<0.011	<0.016	<0.013	<0.013	<0.011	<0.012	<0.014	<0.0067	<0.011
Isopropylbenzene	<0.019	<0.022	<0.031	<0.025	<0.026	<0.022	0.12 J	0.44	0.21	<0.022
Naphthalene	<0.038	<0.044	<0.061	<0.05	<0.052	<0.044	<0.048	<0.055	0.1 J	<0.043
N-Btylbenzene	<0.0099	<0.011	<0.016	<0.013	<0.014	<0.012	<0.012	0.089 J	0.098	<0.011
N-Propylbenzene	<0.013	<0.015	<0.022	<0.018	<0.018	<0.016	<0.017	<0.02	0.048 J	<0.015
p-Isopropyltolene	<0.014	<0.016	<0.023	<0.019	<0.019	<0.017	<0.018	<0.021	0.045 J	<0.016
sec-Btylbenzene	<0.012	<0.014	<0.019	<0.016	<0.016	<0.014	<0.015	<0.017	<0.0082	<0.014
Tetrachloroethene	<0.013	<0.015	<0.021	0.078 J	<0.018	<0.015	<0.016	<0.019	0.46	<0.015
Tolene	<0.0089	<0.01	<0.014	<0.012	<0.012	<0.01	<0.011	<0.013	<0.0061	<0.01
trans-1,2-Dichloroethene	<0.019	<0.022	<0.031	<0.025	<0.026	<0.022	<0.024	<0.028	<0.013	<0.022
Trichloroethene	<0.014	<0.016	<0.023	<0.019	<0.02	<0.017	<0.018	<0.021	<0.0099	<0.016
Vinyl Chloride	<0.008	<0.0092	<0.013	<0.01	<0.011	<0.0093	<0.01	<0.012	<0.0056	<0.0092
Total Xylenes	<0.0053	<0.006	<0.0085	<0.0069	<0.0072	<0.0061	<0.0066	<0.0077	0.06	<0.006
PCBs										
Aroclor 1242	0.011 J	0.011 J	0.019 J	0.016 J	<0.0064	<0.0055	**60**	**2,300**	**3,400**	0.11
Aroclor 1248	<0.0066	<0.0067	<0.0078	<0.0077	<0.0076	<0.0066	<1.5	<74	<130	<0.007
Aroclor 1254	<0.0036	<0.0037	<0.0043	<0.0042	<0.0042	<0.0036	<0.83	<41	<70	<0.0038
Total Detected PCBs	0.011	0.011	0.019	0.016	ND	ND	***60***	***2,300***	***3,400***	0.11

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Table 1. Summary of Soil Analytical Results, Building Subsurface Investigation Summary, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin.

Boring ID	B-180			B-181				B-182		
Sample Date	**1/2/2014**	**1/2/2014**	**1/2/2014**	**1/2/2014**	**1/2/2014**	**1/2/2014**	**1/3/2014**	**1/2/2014**	**1/2/2014**	**1/2/2014**
Sample Depth (feet bls)	**0-2**	**4-6**	**14.6-16.6**	**1.5-3.5**	**4-6**	**8.4-10.4**	**18.1-20.1**	**1.2-3.2**	**5.1-7.1**	**13.5-15.5**
VOCs										
1,2,3-Trichlorobenzene	<0.042	<0.035	<0.037	<0.046	<0.039	<0.028	<0.029	<0.034	<0.034	<0.033
1,2,4-Trichlorobenzene	<0.046	0.51	0.26	<0.049	0.1 J	0.072 J	<0.031	0.078 J	0.079 J	0.13 J
1,2,4-Trimethylbenzene	0.17 J	1.6	0.72	0.58	1	0.3	0.093 J	0.21	0.17 J	0.23
1,2-Dichlorobenzene	<0.025	<0.02	<0.022	<0.027	<0.023	<0.017	<0.017	<0.02	<0.02	<0.019
1,3,5-Trimethylbenzene	0.069 J	0.44	0.18 J	0.59	0.96	0.09 J	<0.017	0.066 J	0.053 J	0.061 J
1,3-Dichlorobenzene	<0.031	0.12 J	<0.028	<0.034	<0.028	<0.021	<0.021	<0.025	<0.025	<0.024
1,4-Dichlorobenzene	<0.021	<0.017	<0.019	<0.023	<0.019	<0.014	<0.014	<0.017	<0.017	<0.016
cis-1,2-Dichloroethene	<0.015	<0.012	<0.013	<0.016	0.059 J	0.076 J	0.22	<0.012	<0.012	*0.39*
Ethylbenzene	<0.015	0.048	<0.013	<0.016	<0.014	<0.01	<0.01	<0.012	<0.012	<0.012
Isopropylbenzene	0.096 J	0.78	<0.027	0.097 J	0.12 J	<0.02	<0.021	0.11 J	0.1 J	0.064 J
Naphthalene	<0.06	0.28	0.14 J	<0.065	<0.054	0.059 J	<0.041	<0.048	<0.048	0.077 J
N-Btylbenzene	<0.016	0.43	0.27	0.083 J	0.18	0.076 J	<0.011	<0.013	<0.013	0.076 J
N-Propylbenzene	<0.021	0.2	0.085 J	0.069 J	0.096 J	<0.014	<0.014	<0.017	<0.017	<0.016
p-Isopropyltolene	<0.022	0.22	0.11 J	<0.024	0.078 J	<0.015	<0.015	<0.018	<0.018	<0.017
sec-Btylbenzene	<0.019	0.17	0.093 J	0.066 J	0.11	<0.012	<0.013	<0.015	<0.015	<0.014
Tetrachloroethene	<0.02	<0.017	1.1	0.24	0.66	1.1	3.1	0.056 J	<0.016	1.9
Tolene	<0.014	0.047	<0.012	<0.015	0.027 J	0.06	<0.0095	<0.011	<0.011	0.064
trans-1,2-Dichloroethene	<0.03	<0.025	<0.027	<0.033	<0.028	<0.02	<0.021	<0.024	<0.024	<0.024
Trichloroethene	<0.022	<0.019	<0.02	<0.024	<0.02	<0.015	0.039 J	<0.018	<0.018	0.18
Vinyl Chloride	<0.013	<0.01	<0.011	<0.014	<0.011	<0.0084	0.027	<0.01	<0.01	<0.0098
Total Xylenes	<0.0082	0.29	0.085	0.13	0.15	0.053	<0.0057	0.052	<0.0066	<0.0064
PCBs										
Aroclor 1242	**45**	**800**	**1,200**	**160**	**1,600**	**9**	**82**	**1**	**280**	**2,300**
Aroclor 1248	<1.6	<37	<36	<7.9	<75	<0.67	<3.2	<0.16	<7.1	<67
Aroclor 1254	<0.87	<20	<20	<4.3	<41	<0.37	<1.8	<0.086	<3.9	<37
Total Detected PCBs	***45***	***800***	***1,200***	***160***	***1,600***	***9***	***82***	1	***280***	***2,300***

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Table 1. Summary of Soil Analytical Results, Building Subsurface Investigation Summary, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin.

Boring ID	B-183			B-184			B-185	B-186	B-187	
Sample Date	1/3/2014	1/3/2014	1/3/2014	1/3/2014	1/3/2014	1/3/2014	1/3/2014	1/3/2014	1/3/2014	1/3/2014
Sample Depth (feet bls)	1.7-3.7	8-10	17.3-19.3	2-4	14-16	18.5-20.5	1.5-3.5	2-4	1.3-3.3	8-10
VOCs										
1,2,3-Trichlorobenzene	<0.039	<0.035	<0.031	<0.037	<0.033	<0.031	<0.033	<0.042	<0.037	<0.032
1,2,4-Trichlorobenzene	<0.042	<0.038	<0.033	<0.04	<0.035	<0.033	<0.036	<0.045	<0.04	<0.035
1,2,4-Trimethylbenzene	<0.023	<0.021	<0.019	<0.022	<0.02	<0.019	<0.02	<0.025	<0.022	<0.019
1,2-Dichlorobenzene	<0.023	<0.02	<0.018	<0.022	<0.019	<0.018	<0.02	<0.024	<0.022	<0.019
1,3,5-Trimethylbenzene	<0.023	<0.021	<0.018	<0.022	<0.019	<0.018	<0.02	<0.024	<0.022	<0.019
1,3-Dichlorobenzene	<0.029	<0.026	<0.023	<0.027	<0.024	<0.023	<0.025	<0.031	<0.027	<0.023
1,4-Dichlorobenzene	<0.019	<0.017	<0.015	<0.018	<0.016	<0.015	<0.017	<0.021	<0.018	<0.016
cis-1,2-Dichloroethene	<0.014	<0.012	<0.011	<0.013	<0.012	<0.011	<0.012	<0.015	<0.013	<0.011
Ethylbenzene	<0.014	<0.013	<0.011	<0.013	<0.012	<0.011	<0.012	<0.015	<0.013	<0.012
Isopropylbenzene	<0.028	<0.025	<0.022	<0.027	<0.024	<0.022	<0.024	<0.03	<0.027	<0.023
Naphthalene	<0.055	<0.049	<0.043	<0.052	<0.046	<0.044	<0.047	<0.059	<0.052	<0.045
N-Btylbenzene	<0.014	<0.013	<0.011	<0.014	<0.012	<0.011	<0.012	<0.015	<0.014	<0.012
N-Propylbenzene	<0.019	<0.017	<0.015	<0.019	<0.016	<0.015	<0.017	<0.021	<0.018	<0.016
p-Isopropyltolene	<0.021	<0.018	<0.016	<0.02	<0.017	<0.016	<0.018	<0.022	<0.02	<0.017
sec-Btylbenzene	<0.017	<0.015	<0.014	<0.016	<0.014	<0.014	<0.015	<0.018	<0.016	<0.014
Tetrachloroethene	<0.019	<0.017	<0.015	<0.018	<0.016	<0.015	<0.016	<0.02	<0.018	<0.015
Tolene	<0.013	<0.011	<0.01	<0.012	<0.011	<0.01	<0.011	<0.014	<0.012	<0.01
trans-1,2-Dichloroethene	<0.028	<0.025	<0.022	<0.026	<0.023	<0.022	<0.024	<0.03	<0.026	<0.023
Trichloroethene	<0.021	<0.019	<0.016	<0.02	<0.017	<0.016	<0.018	<0.022	<0.02	<0.017
Vinyl Chloride	<0.012	<0.01	<0.0091	<0.011	<0.0098	<0.0092	<0.0099	<0.012	<0.011	<0.0095
Total Xylenes	<0.0076	<0.0068	<0.006	<0.0072	<0.0064	<0.006	<0.0065	<0.0081	<0.0072	<0.0062
PCBs										
Aroclor 1242	0.048	0.014 J	0.025	0.021	0.0057 J	0.024	0.053	0.57	0.012 J	0.012 J
Aroclor 1248	<0.0076	<0.0065	<0.0068	<0.0076	<0.0068	<0.0069	<0.0075	<0.016	<0.0071	<0.0067
Aroclor 1254	<0.0041	<0.0036	<0.0037	<0.0042	<0.0037	<0.0038	<0.0041	<0.0085	<0.0039	<0.0037
Total Detected PCBs	0.048	0.014	0.025	0.021	0.0057	0.024	0.053	0.57	0.012	0.012

Footnotes on Page 10.

Table 1. Summary of Soil Analytical Results, Building Subsurface Investigation Summary, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin.

Boring ID	B-187 (continued)	B-188			B-189			B-190		
Sample Date	1/3/2014	1/2/2014	1/2/2014	1/2/2014	1/15/2014	1/15/2014	1/15/2014	1/15/2014	1/15/2014	1/15/2014
Sample Depth (feet bls)	12-14	2-4	9-11	13-15	2-4	8-10	16-18	0-2	10-12	16-18
VOCs										
1,2,3-Trichlorobenzene	<0.032	<0.039	<0.03	<0.034	<0.045	<0.05	<0.047	<0.62	<0.057	<0.05
1,2,4-Trichlorobenzene	<0.034	<0.042	<0.033	<0.037	<0.049	<0.054	<0.051	<0.67	<0.061	<0.054
1,2,4-Trimethylbenzene	<0.019	<0.023	<0.018	<0.02	<0.027	<0.03	<0.028	14	<0.034	<0.03
1,2-Dichlorobenzene	<0.019	<0.023	<0.018	<0.02	<0.026	<0.029	<0.028	<0.36	<0.033	<0.029
1,3,5-Trimethylbenzene	<0.019	<0.023	<0.018	<0.02	<0.026	<0.03	<0.028	5	<0.033	<0.029
1,3-Dichlorobenzene	<0.023	<0.028	<0.022	<0.025	<0.033	<0.037	<0.035	<0.46	<0.042	<0.036
1,4-Dichlorobenzene	<0.016	<0.019	<0.015	<0.017	<0.022	<0.025	<0.023	<0.31	<0.028	<0.025
cis-1,2-Dichloroethene	<0.011	<0.014	<0.011	<0.012	<0.016	<0.018	<0.017	120	<0.02	<0.017
Ethylbenzene	<0.011	<0.014	<0.011	<0.012	<0.016	<0.018	<0.017	0.6	<0.02	<0.018
Isopropylbenzene	<0.023	<0.028	<0.022	<0.024	<0.032	<0.036	<0.034	1.4 J	<0.041	<0.036
Naphthalene	<0.045	<0.055	<0.043	<0.048	<0.063	<0.071	<0.067	2.1 J	<0.08	<0.07
N-Btylbenzene	<0.012	<0.014	<0.011	<0.012	<0.017	<0.019	<0.017	4.6	<0.021	<0.018
N-Propylbenzene	<0.016	<0.019	<0.015	<0.017	<0.022	<0.025	<0.024	3.9	<0.028	<0.025
p-Isopropyltolene	<0.017	<0.02	<0.016	<0.018	<0.024	<0.027	<0.025	2.8 J	<0.03	<0.026
sec-Btylbenzene	<0.014	<0.017	<0.013	<0.015	<0.02	<0.022	<0.021	2.6	<0.025	<0.022
Tetrachloroethene	<0.015	0.15	<0.015	<0.016	0.35	<0.024	<0.023	**2,400**	1.4	0.4
Tolene	<0.01	<0.013	<0.01	<0.011	<0.015	<0.017	<0.016	<0.2	<0.019	<0.016
trans-1,2-Dichloroethene	<0.023	<0.028	<0.022	<0.024	<0.032	<0.036	<0.034	4.7	<0.04	<0.035
Trichloroethene	<0.017	<0.021	<0.016	<0.018	<0.024	<0.027	<0.025	**150**	0.041 J	<0.026
Vinyl Chloride	<0.0094	<0.012	<0.0091	<0.01	<0.013	<0.015	<0.014	<0.19	<0.017	<0.015
Total Xylenes	<0.0062	<0.0076	<0.006	<0.0066	<0.0088	<0.0098	<0.0092	2.8	<0.011	<0.0097
PCBs										
Aroclor 1242	0.15	**1.4**	<0.0057	<0.0058	<0.0069	0.0088 J	0.014 J	0.3	<0.0055	<0.0059
Aroclor 1248	<0.0068	<0.07	<0.0069	<0.0069	<0.0083	<0.0068	<0.0069	<0.0077	<0.0066	<0.007
Aroclor 1254	<0.0037	<0.038	<0.0038	<0.0038	<0.0045	<0.0037	<0.0038	<0.0042	<0.0036	<0.0039
Total Detected PCBs	0.15	***1.4***	ND	ND	ND	0.0088	0.014	0.3	ND	ND

Footnotes on Page 10.

Table 1. Summary of Soil Analytical Results, Building Subsurface Investigation Summary, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin.

Boring ID	B-191			B-192			B-193			B-194
Sample Date	1/4/2014	1/4/2014	1/4/2014	1/15/2014	1/15/2014	1/15/2014	2/27/2014	2/27/2014	2/27/2014	2/27/2014
Sample Depth (feet bls)	2-4	13.7-15.7	17.3-19.3	0-2	10-12	16-18	0-2	12-14	18-20	2-4
VOCs										
1,2,3-Trichlorobenzene	<0.036	<0.029	<0.032	<0.055	<0.063	<0.055	<0.039 *	<0.032 *	<0.03 *	<0.038 *
1,2,4-Trichlorobenzene	<0.038	<0.032	<0.034	<0.059	<0.068	<0.06	<0.042 *	<0.035 *	<0.032 *	<0.041 *
1,2,4-Trimethylbenzene	<0.021	<0.018	<0.019	<0.033	<0.038	<0.033	<0.023	<0.019	<0.018	<0.023
1,2-Dichlorobenzene	<0.021	<0.017	<0.019	<0.032	<0.037	<0.032	<0.023	<0.019	<0.018	<0.022
1,3,5-Trimethylbenzene	<0.021	<0.017	<0.019	<0.032	<0.037	<0.032	<0.023	<0.019	<0.018	<0.022
1,3-Dichlorobenzene	<0.026	<0.021	<0.023	<0.04	<0.046	<0.04	<0.028	<0.024	<0.022	<0.028
1,4-Dichlorobenzene	<0.018	<0.015	<0.016	<0.027	<0.031	<0.027	<0.019	<0.016	<0.015	<0.019
cis-1,2-Dichloroethene	<0.012	<0.01	<0.011	<0.019	<0.022	<0.019	<0.014	<0.011	<0.011	<0.013
Ethylbenzene	<0.013	<0.011	<0.011	<0.02	<0.023	<0.02	<0.014	<0.012	<0.011	<0.014
Isopropylbenzene	<0.025	<0.021	<0.023	<0.039	<0.045	<0.04	<0.028	<0.023	<0.022	<0.027
Naphthalene	<0.05	<0.041	<0.045	<0.077	<0.088	<0.078	<0.054 *	<0.045 *	<0.042 *	<0.054 *
N-Btylbenzene	<0.013	<0.011	<0.012	<0.02	<0.023	<0.02	<0.014	<0.012	<0.011	<0.014
N-Propylbenzene	<0.018	<0.015	<0.016	<0.027	<0.031	<0.028	<0.019	<0.016	<0.015	<0.019
p-Isopropyltolene	<0.019	<0.015	<0.017	<0.029	<0.033	<0.029	<0.02	<0.017	<0.016	<0.02
sec-Btylbenzene	<0.016	<0.013	<0.014	<0.024	<0.028	<0.024	<0.017	<0.014	<0.013	<0.017
Tetrachloroethene	<0.017	<0.014	<0.015	0.22	0.2	1.2	0.15	0.071 J	<0.014	0.055 J
Tolene	<0.012	0.055	<0.01	<0.018	<0.021	<0.018	<0.013	<0.011	<0.0099	0.03
trans-1,2-Dichloroethene	<0.025	<0.021	<0.023	<0.039	<0.045	<0.039	<0.028	<0.023	<0.021	<0.027
Trichloroethene	<0.019	<0.016	<0.017	<0.029	<0.033	<0.029	<0.02	<0.017	<0.016	<0.02
Vinyl Chloride	<0.011	<0.0087	<0.0094	<0.016	<0.019	<0.016	<0.011 *	<0.0095 *	<0.0089 *	<0.011 *
Total Xylenes	<0.0069	<0.0057	<0.0062	<0.011	<0.012	<0.011	<0.0075	<0.0063	<0.0059	<0.0075
PCBs										
Aroclor 1242	**6.1**	0.0093 J	0.0075 J	**35**	0.015 J	<0.0058	0.017 J	<0.029	<0.0058	<0.0066
Aroclor 1248	<0.36	<0.0067	<0.0069	<1.6	<0.0069	<0.0069	<0.0077	0.75	<0.0069	<0.0079
Aroclor 1254	<0.2	<0.0037	<0.0038	<0.87	<0.0038	<0.0038	<0.0042	<0.019	<0.0038	<0.0043
Total Detected PCBs	***6.1***	0.0093	0.0075	***35***	0.015	ND	0.017	0.75	ND	ND

Footnotes on Page 10.

Table 1. Summary of Soil Analytical Results, Building Subsurface Investigation Summary, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin.

Boring ID	B-194 (continued)		B-195		
Sample Date	2/27/2014	2/27/2014	2/27/2014	2/27/2014	2/27/2014
Sample Depth (feet bls)	8-10	20-21	0-2	10-12	18-20
VOCs					
1,2,3-Trichlorobenzene	<0.032 *	<0.027 *	<0.035 *	<0.033 *	<0.028 *
1,2,4-Trichlorobenzene	<0.034 *	<0.029 *	<0.038 *	<0.036 *	<0.031 *
1,2,4-Trimethylbenzene	<0.019	<0.016	<0.021	<0.02	<0.017
1,2-Dichlorobenzene	<0.019	<0.016	<0.021	<0.019	<0.017
1,3,5-Trimethylbenzene	<0.019	<0.016	<0.021	<0.019	<0.017
1,3-Dichlorobenzene	<0.023	<0.02	<0.026	<0.024	<0.021
1,4-Dichlorobenzene	<0.016	<0.013	<0.018	<0.016	<0.014
cis-1,2-Dichloroethene	<0.011	<0.0094	<0.012	<0.012	<0.01
Ethylbenzene	<0.011	<0.0096	<0.013	<0.012	<0.01
Isopropylbenzene	<0.023	<0.019	<0.025	<0.024	<0.02
Naphthalene	<0.045 *	<0.038 *	<0.05 *	<0.047 *	<0.04 *
N-Btylbenzene	<0.012	<0.0099	<0.013	<0.012	<0.01
N-Propylbenzene	<0.016	<0.013	<0.018	<0.017	<0.014
p-Isopropyltolene	<0.017	<0.014	<0.019	<0.017	<0.015
sec-Btylbenzene	<0.014	<0.012	<0.016	<0.015	<0.013
Tetrachloroethene	<0.015	<0.013	0.11	<0.016	<0.014
Tolene	<0.01	<0.0088	<0.012	<0.011	<0.0093
trans-1,2-Dichloroethene	<0.023	<0.019	<0.025	<0.024	<0.02
Trichloroethene	<0.017	<0.014	<0.019	<0.018	<0.015
Vinyl Chloride	<0.0094 *	<0.0080 *	<0.011 *	<0.0098 *	<0.0084 *
Total Xylenes	<0.0062	<0.0052	<0.0069	<0.0065	<0.0056
PCBs					
Aroclor 1242	0.18	<0.0057	<0.0066	<0.0055	<0.0058
Aroclor 1248	<0.0067	<0.0068	0.045	<0.0066	<0.0070
Aroclor 1254	<0.0037	<0.0037	<0.0043	<0.0036	<0.0038
Total Detected PCBs	0.18	ND	0.045	ND	ND

Footnotes on Page 10.

Table 1. Summary of Soil Analytical Results, Building Subsurface Investigation Summary, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin.

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

100	Exceeds the WDNR's industrial direct contact RCL.
100	Exceeds the USEPA's self-implementing high-occupancy cleanup level with no site restrictions.
100	Exceeds the Toxic Substance Control Act disposal limit.
*	Laboratory Control Spike or Laboratory Control Spike Duplicate exceeds the control limits.
<	Constituent not detected above noted laboratory detection limit.
bls	Below land surface
J	Constituent concentration is an approximate value.
ND	Total PCBs less than the laboratory detection limit.
NE	Criteria not established.
PCBs	Polychlorinated biphenyls.
RCL	Residual contaminant level.
TSCA	Toxic Substance Control Act.
USEPA	United States Environmental Protection Agency.
VOCs	Volatile organic compounds.
WDNR	Wisconsin Department of Natural Resources.

MKC
Madison-Kipp Corporation

Post Office Box 8043
Madison, WI 53708-8043

201 Waubesa Street
Madison, WI 53704-5728

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

Subject:
Center Aisle Excavation Summary, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin. Facility ID No. 113125320, BRRTS No. 02-13-001569

This letter provides a summary of the excavation activities related to maintenance activities in the center aisle of our building at 201 Waubesa Street in Madison, Wisconsin. The activities included soil and concrete excavation in accordance with the Interior Building Maintenance - Center Aisle, Madison-Kipp Corporation letter submitted to the WDNR on June 3, 2014. The primary reason for the soil and concrete excavation was to improve safety for transporting molten aluminum via fork truck down the center aisle. Due to the polychlorinated biphenyl (PCB) impacts of soil beneath the center aisle, Madison-Kipp excavated soil and the trench with piping to a depth of approximately three to four feet, as possible, during this maintenance activity.

Excavation and backfill activities were performed on site from June 27 through July 3, 2014. The excavation area measured approximately 165 feet long by eight feet wide (Figures 1 and 2). Excavation activities were overseen by CGC Inc. to ensure structural stability of the adjacent soils and machine footings.The excavation varied from four feet deep at the southern end to approximately three feet deep at the northern end. The depth of the excavation varied due to the potential for undermining the surrounding slab and the instruction of the structural engineer on site (Attachment A). The concrete trench and the pipes it contained were uncovered and removed within the bounds of the excavation. The trench contained three 4-inch diameter pipes that were filled with presumably hydraulic fluid and one empty 10-inch diameter water line, along with various carrier pipes running from the trench towards the machines. The pipes were drained and contents were placed in appropriate containers for disposal. The pipes were cut off at the extent of the excavation and plugged with concrete.

Soils, concrete, and piping were excavated and stockpiled in the north Madison-Kipp parking lot. The stockpiled material was placed on and covered with plastic sheeting. A total of 53.9 tons of the concrete floor was disposed of at the Glacier Ridge landfill in Horicon, Wisconsin. A total of 279 tons of soil with concrete and piping debris was disposed of at Environmental Quality's Wayne Disposal Landfill in Belleville, Michigan.

Following excavation, the excavation area was backfilled with 3-inch crushed stone and ¾-inch fine stone compacted in 6 to 8-inch lifts. An eleven inch concrete floor was poured on July 3,

Madison-Kipp Corporation
Post Office Box 8043
Madison, WI 53708-8043
201 Waubesa Street
Madison, WI 53704-5728

2014 to allow for ten days of drying prior to allowing fork truck traffic.

We trust that this information meets your needs. Should you require additional information, please contact one of the undersigned.

Alina Walcek

Alina Walcek
Madison Kipp Corporation
Environmental and Safety Coordinator

Copies:
David Crass - Michael, Best, & Friedrich LLP
Jennine Trask – ARCADIS US-Inc.
Ken Zolnierczyk – US EPA

Attachments:
Figure 1 - Plant Layout
Figure 2 - Excavation Extent
Attachment A - CGC, Inc. Center Aisle Field Report

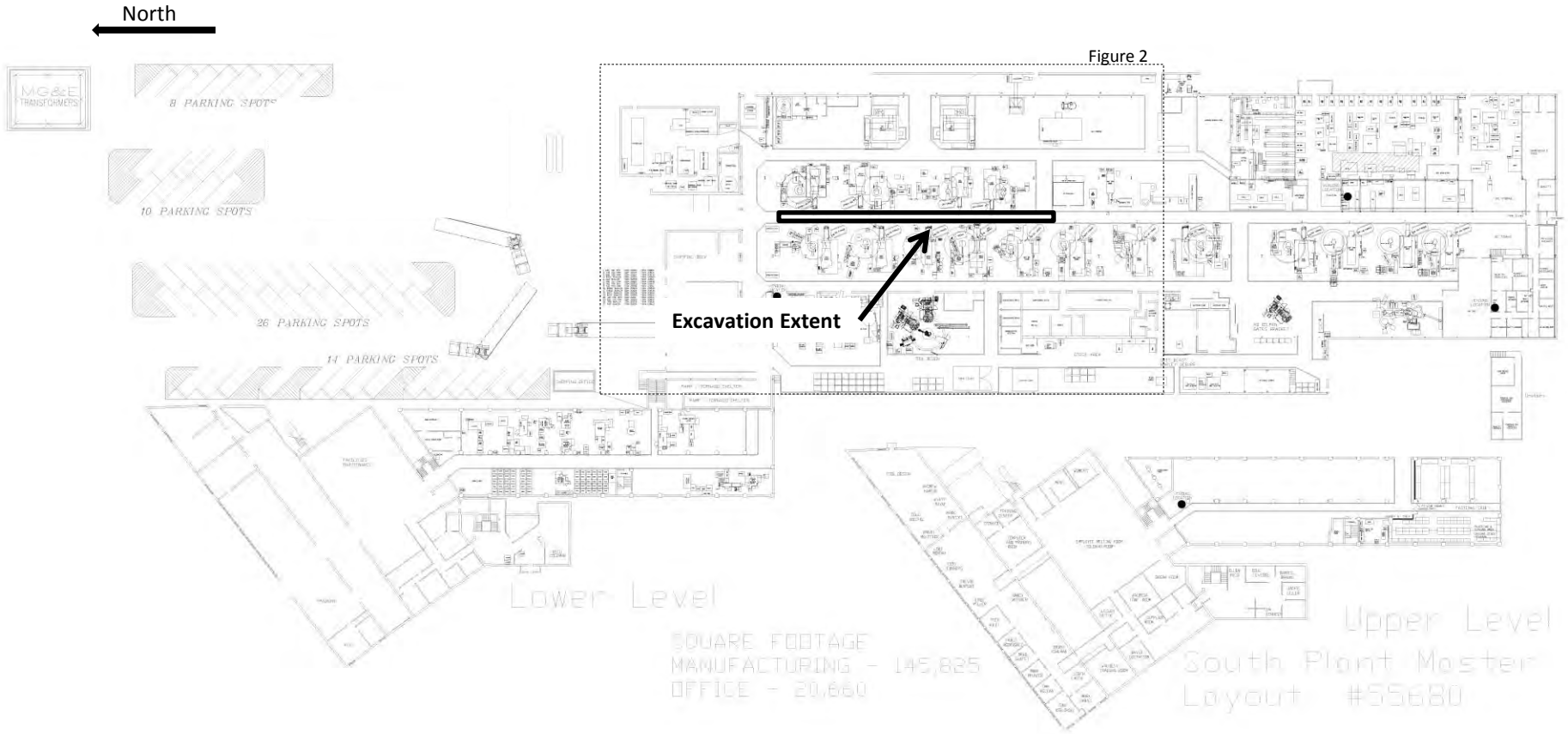
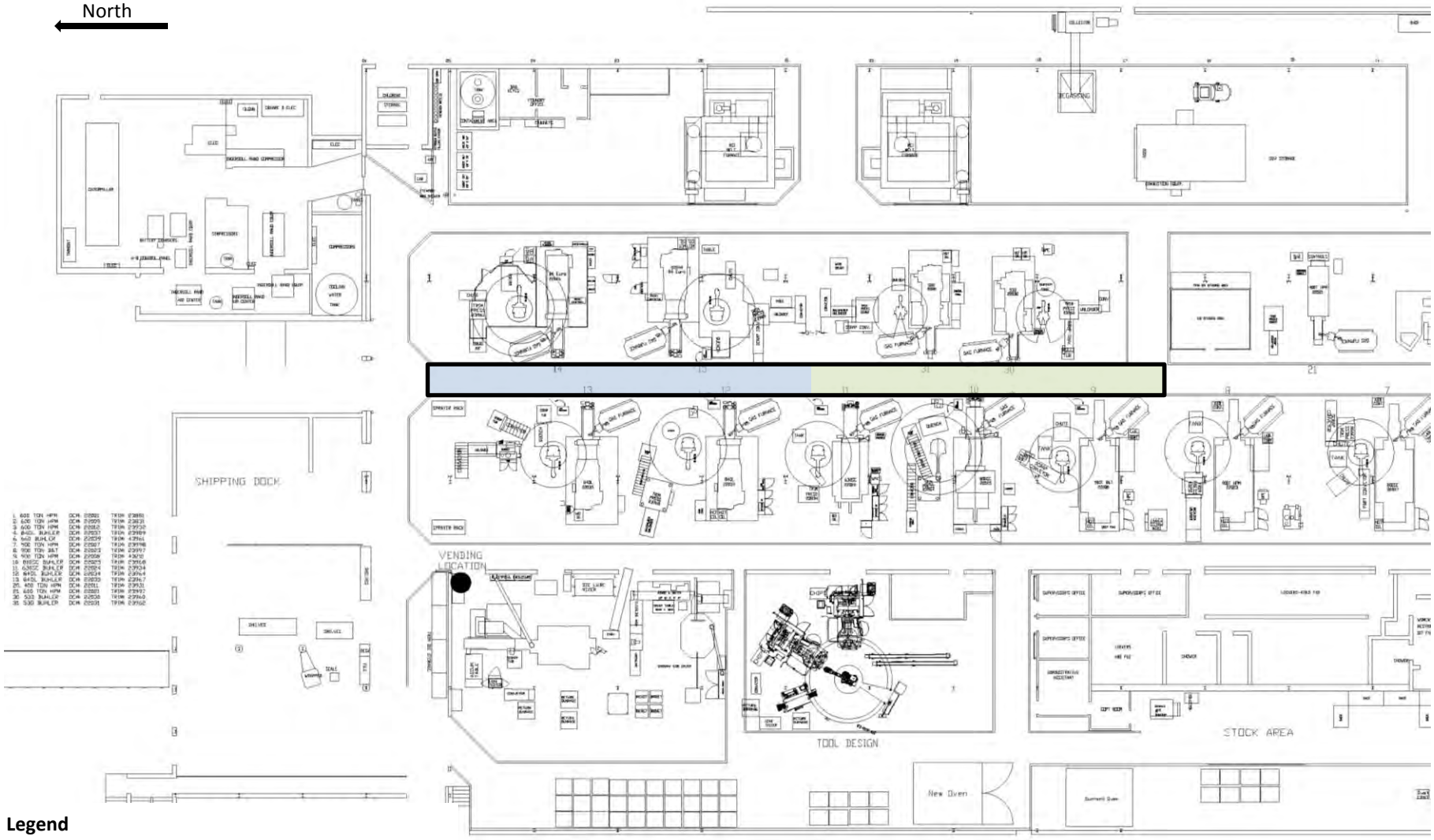


Figure 1
Madison Kipp Corporation
Center Aisle Excavation Summary Letter
Plant Layout



Legend

Approximate extent of excavation to 3 feet

Approximate extent of excavation to 4 feet

0 10 20 30 40 50

Approximate Scale (ft)

Figure 2
Madison Kipp Corporation
Center Aisle Excavation Summary Letter
Excavation Extent

CGC, Inc.	Field Report	Report No. 062814 Job No. C14249 Date 6/28/14 Day Sat Sheet 1 of 1

CGC, Inc. • 2921 Perry Street • Madison, WI 53713 • Phone (608) 288-4100 • Fax (608) 288-7887

CGC rep: Bill Wuellner **Arrived at Site:** 7:15 AM 3:35 PM **Left Site:** 8:00 AM 4:00 PM

Project: Madison-Kipp Corporation - Slab Replacement

Location: Madison

Weather: warm, ptly cloudy, humid **Temperature:** 80s °F at

Present at Site: Terry & Alina - MKC; TransEnvironmental crew

Equipment on Job: small backhoe, skidsteers and front-end loader, small roller compactor

We visited the site this date to observe/perform the following:

AM: The slab had been removed on Friday, as planned, revealing the abandoned, concrete utility trench running down the length of the aisle. Trans was excavating at the south end, working north and had dug about 3.5 ft deep at the far south end. Soils exposed (outside the utility trench) were very stiff to hard, brown and gray lean clay, with pocket penetrometer readings (an estimate of the unconfined compressive strength of cohesive/clayey soils) of 2.5 to 4.5 ton/sq ft (tsf). The slab was 6 in. thick, and there was no gravel below the slab in this location. The excavation was dug with vertical side slopes through the clay and appeared stable.

Excavation was slowed by the need to remove at least four abandoned pipes within the concrete utility trench/conduit, as well as the concrete conduit itself. MKC personnel were mobilizing their overhead crane to remove the buried pipes in larger sections.

PM: Returned to the site in the PM to check progress. Much of the conduit and pipe had been removed and the excavation had advanced about 30 to 35 ft to the north. The same very stiff to hard, gray & brown lean clay was exposed up to where the excavator was working to remove more material. The excavation was 4 ft deep with vertical side slopes and appeared to be very stable. Rod probe penetrations with a 5/8-in. diameter steel probe under full body weight were 1 to 2 in., indicating very firm conditions at the base of the excavation. Pocket penetrometer readings remained in the 3.5 to 4.5 tsf range.

The operator indicated they planned to keep working into the evening and hoped to reach the north end before quitting. They planned to start filling on Sunday.

By: Bill Wuellner, P.E. **Date:** 6/28/2014 **Distribution:**

CGC, Inc.	Field Report	Report No. 062914 Job No. C14249 Date 6/29/14 Day Sun Sheet 1 of 1

CGC, Inc. • 2921 Perry Street • Madison, WI 53713 • Phone (608) 288-4100 • Fax (608) 288-7887

CGC rep: Bill Wuellner **Arrived at Site:** 7:00 AM, 3:20 PM **Left Site:** 7:35 AM, 4:10 PM

Project: Madison-Kipp Corporation - Slab Replacement

Location: Madison

Weather: warm, ptly cloudy, humid **Temperature:** 70-80s °F at

Present at Site: Terry & Alina - MKC; TransEnvironmental crew

Equipment on Job: small backhoe, skidsteers and front-end loader, small roller compactor

We visited the site this date to observe/perform the following:

AM: Upon arrival, noted that about 75 ft (about half) of the slab area had been excavated to about 4 ft deep up to a point where two concrete foundations or walls (?) extended into the excavation, one from each side leaving about a 2-ft gap between them. Some excavation had been done at the north end, but had also encountered some buried concrete obstructions that were slowing progress. The soil below the slab at this end includes relatively dry, sand fill that is collapsing during excavation and causing some undermining of the existing slab. Because of the collapsing sand fill resulting in extensive undermining of the slab, the depth of excavation possible at the north end will be more limited than at the south end where very stiff, native clay exists.

A layer of 3-in. crushed stone had been placed and compacted on the south 75 ft. Rod probes were 0 to 1 in. indicating adequate compaction. A 12 to 18-in. thick pile of uncompacted stone was spread for a length of about 20 to 25 ft in one location above the compacted stone layer. We recommended that this layer be spread to a lift thickness close to 6-8 in. before compacting.

PM: Returned to the site in the PM to check progress. Demolition of the concrete obstructions had been completed to the extent that was practical. Excavation depth, as reported by the contractor, was at least 3 ft, except for one concrete pier that could not be removed. Trans was placing and compacting 3-in. crushed stone in lifts of about 6 to 8 in. using a small smooth-drum vibratory compactor. Moisture contents in the stone fill appeared to be close to optimum as a result of the rain last night saturating the material stockpiled outside. Rod probes after compaction were 0 to 1 in., indicating adequate compaction for floor slab support. They will leave the top of fill about 11 in. below the existing slab for the new slab. We discussed the need to leave enough room for concrete to flow back under the undermined existing slab where necessary. The soil conditions at the north end included more sand fill below the existing slab and this tended to slough away from below the existing slab.

In our opinion, methods and materials appear satisfactory for support of the replacement floor slab.

By: Bill Wuellner, P.E. **Date:** 6/29/2014 **Distribution:**

Madison-Kipp Corporation
Post Office Box 8043
Madison, WI 53708-8043
201 Waubesa Street
Madison, WI 53704-5728

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

October 22, 2014

Subject:
Parking Lot Maintenance, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin. Facility ID No. 113125320, BRRTS No. 02-13-001569

Dear Mr. Schmoller:

This letter summarizes maintenance activities at the Madison Kipp facility located at 201 Waubesa Street in Madison, Wisconsin including removal of concrete and soil beneath the oil shed in the north parking lot and removal of soil associated with constructing a retaining wall and curb outside the facility.

Oil Shed

On July 30, 2014, Madison Kipp began work to remove the oil shed in the north parking lot (Figures 1 and 2). The work included removing the concrete floor and limited soil removal beneath the concrete floor. Two in-place concrete samples (Ramp Oil Shed and Fence Oil Shed) were collected by Madison-Kipp on July 29, 2014 and submitted to Test America for PCBs, VOCs and metals analysis to characterize the materials for disposal. The approximate locations of the samples are presented in Figure 2.

The analytical results of the sampling indicated that concentrations of PCBs in concrete were detected above the TSCA disposal limit at the Fence Oil Shed sample. The concrete PCB results are summarized in Table 1. A copy of the laboratory report is included as Attachment A. Soil to be removed was sampled by ARCADIS in 2012 (B-98 (0-2), B-135 (0-1.8), B-134 (0-2)). The PCB soil results are summarized in the Site Investigation and Interim Actions Report (ARCADIS 2013). The PCB concentrations in soil were not detected above the TSCA disposal limit. The soil was profiled with Advanced Disposal for non-hazardous disposal.

A total of 56.4 tons of concrete were disposed of at Environmental Quality's Wayne Disposal Landfill in Belleville, Michigan. A total of 51 tons of soil were disposed of at Advanced Disposal's Glacier Ridge Landfill in Horicon, Wisconsin.

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Madison, WI 53704-5728

Curb Along Eastern Boundary

Prior to installation of the curb along the eastern boundary of the property (Figure 3), 333 tons of soil were excavated and disposed of at Advanced Disposal's Glacier Ridge Landfill in Horicon, Wisconsin in August 2014. Soil to be removed was sampled by ARCADIS in 2012 (B- (0-2) through B-11 (0-2), B-67 (0-2), B-69 (0-2), B-102 (0-2) through B-133 (0-2) . The PCB soil results are summarized in the Site Investigation and Interim Actions Report (ARCADIS 2013). The PCB concentrations in soil were not detected above the TSCA disposal limit.

Atwood/Waubesa Parking Lot

During re-paving of the Atwood/Waubesa Parking lot in August 2014, a retaining wall was installed requiring the excavation of 320 tons of soil (Figure 3). Soil removed was sampled by ARCADIS in 2012 (B-74 (0-2), B-75 (0-2), B-78 (0-2), B-79 (0-2)). The soil results are summarized in the Site Investigation and Interim Actions Report (ARCADIS 2013). The PCB concentrations in soil were not detected above the TSCA disposal limit.

Should building maintenance be required within the Madison-Kipp building in the future, similar methods will be used for appropriate characterization and disposal of materials. Documentation will be provided to the WDNR.

We trust that this information meets your needs. Should you require additional information, please contact me.

Madison Kipp Corporation

Alina Satkoski

Alina Satkoski
Environmental and Safety Coordinator

Attachments:
Figure 1 - Oil Shed Location
Figure 2 - Oil Shed Sample Locations
Figure 3 - Outdoor Excavation Activities

MKC
Madison-Kipp Corporation

Post Office Box 8043
Madison, WI 53708-8043

201 Waubesa Street
Madison, WI 53704-5728

Table 1 - Oil Shed Analytical Results

Attachment A - Test America Laboratory Reports

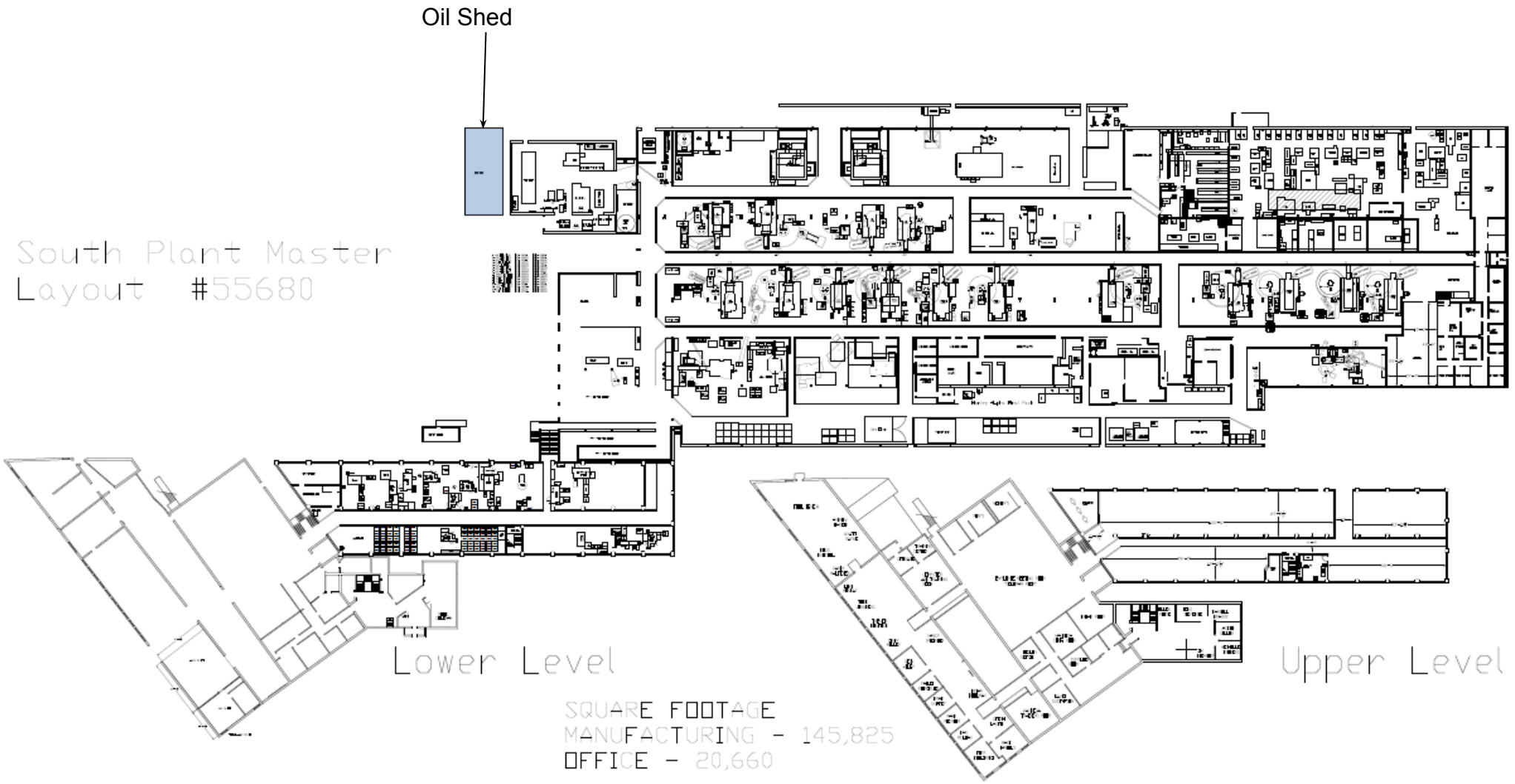
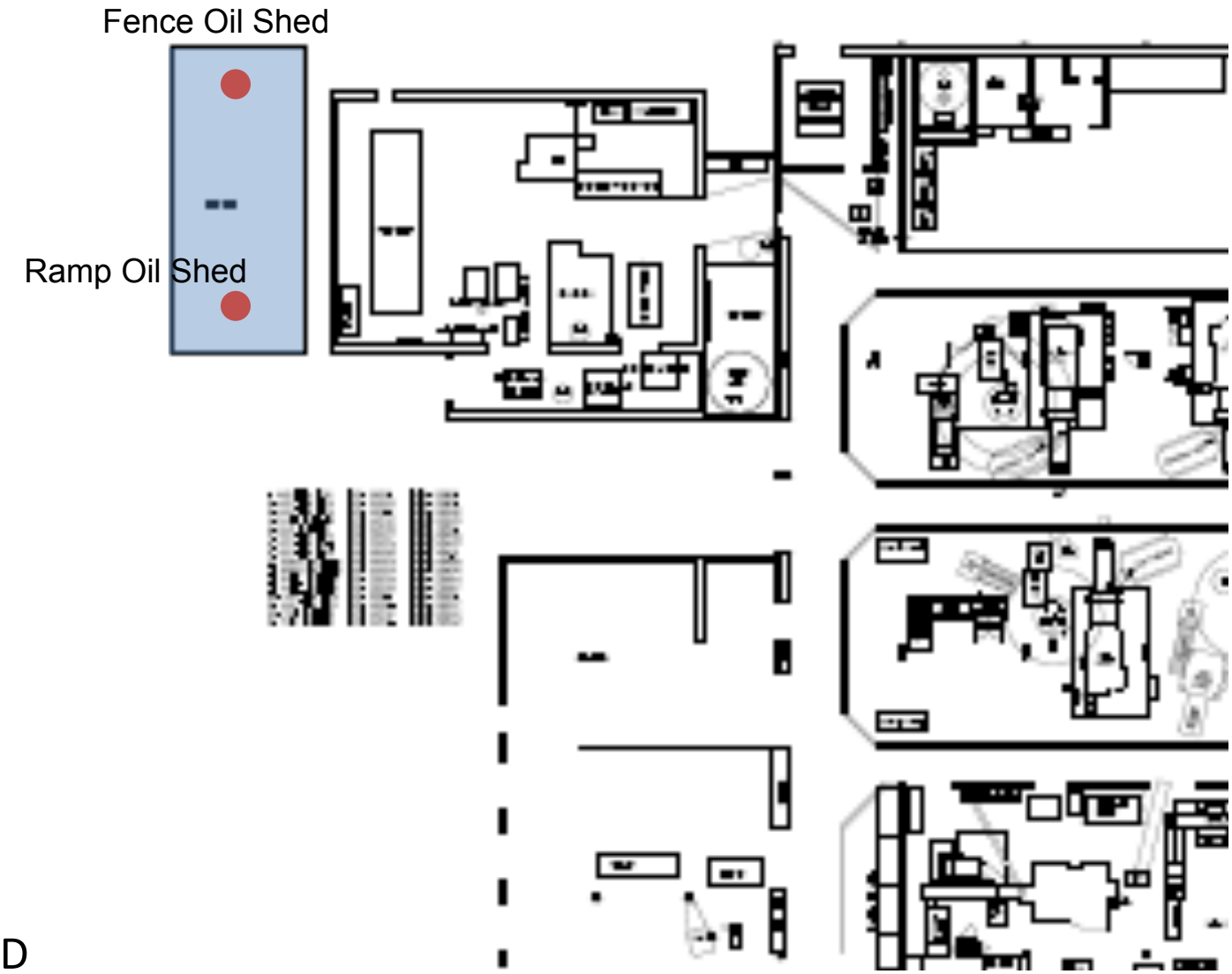


Figure 1
Madison Kipp Corporation
Oil Shed Location
Parking Lot Maintenance



LEGEND

CONCRETE SAMPLE

AREA REMOVED (~30'x 50')

Figure 2
Oil Shed Sample Locations
Madison Kipp Corporation
Parking Lot Maintenance

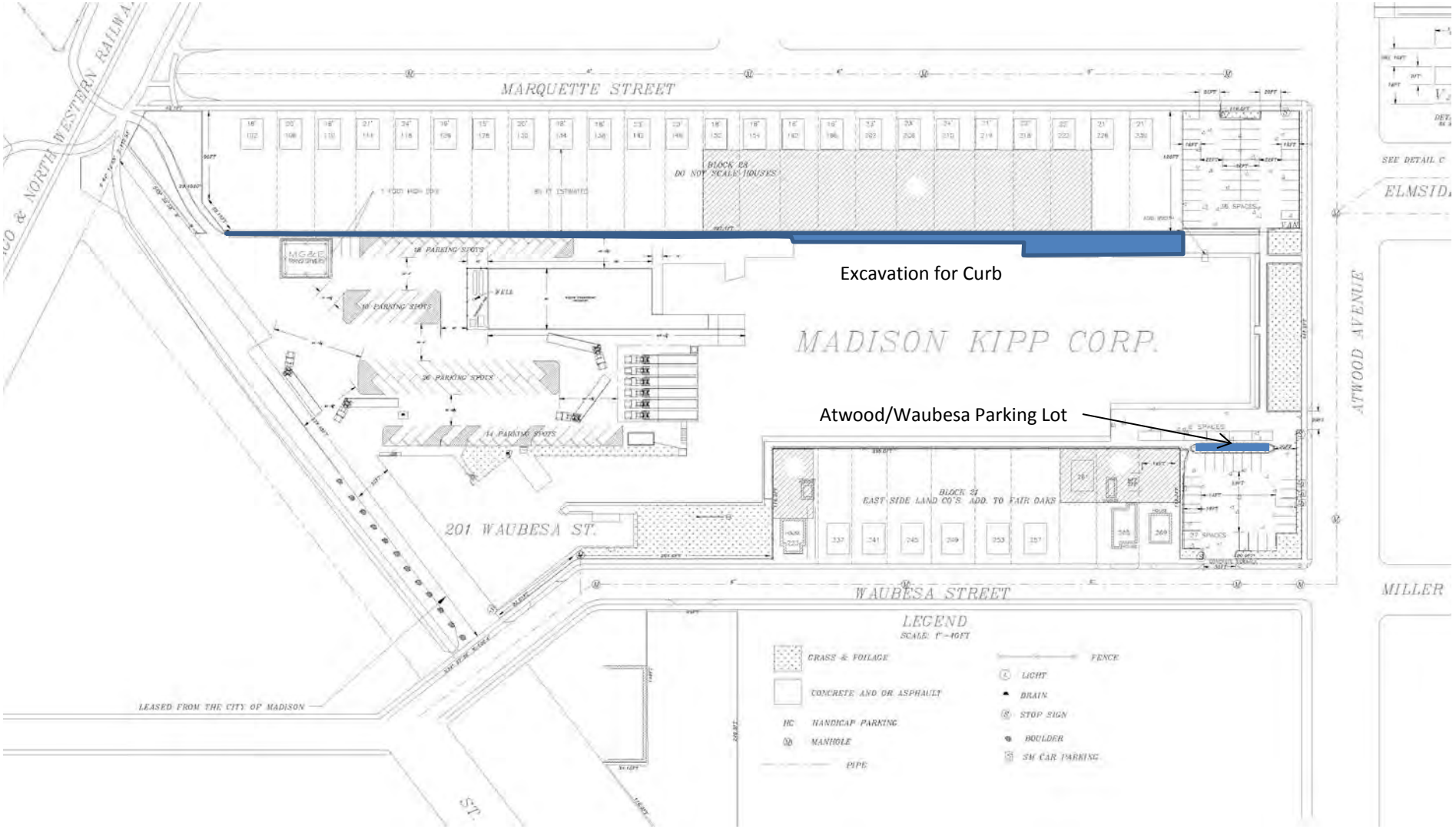


Figure 3
Outdoor Excavation Activities 2014
Madison Kipp Corporation
Parking Lot Maintenance

Table 1. Oil Shed Concrete Sample Results, Parking Lot Maintenance Activities, Madison-Kipp Corporation, Madison, Wisconsin

Boring Sample Date	Industrial Direct Contact RCL	TSCA Disposal Limit	Ramp Oil Shed 7/29/2014	Fence Oil Shed 7/29/2014
PCBs				
Aroclor-1242	0.744	NE	4.1	1300
Total Detected PCBs	NE	50	4.1	1300

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

100	Exceeds the WDNR's industrial direct contact residual contaminant level.
100	Exceeds the Toxic Substances Control Act disposal limit.
<	Constituent not detected above noted laboratory detection limit.
EPA	United States Environmental Protection Agency
NE	Criteria not established.
ND	Total PCBs less than the laboratory detection limit.
PCBs	Polychlorinated biphenyls.
RCL	Residual contaminant level.
TSCA	Toxic Substance Control Act.

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: 500-81436-1
Client Project/Site: MadisonKipp - Oil Shed

For:
Madison-Kipp Corporation
201 Waubesa Street
Madison, Wisconsin 53704

Attn: Alina Walcek

Authorized for release by:
8/4/2014 4:26:02 PM

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

LINKS

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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.

Table of Contents

Case Narrative

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - Oil Shed

TestAmerica Job ID: 500-81436-1

Job ID: 500-81436-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-81436-1

Comments
No additional comments.

Receipt
The samples were received on 7/30/2014 10:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.6º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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

GC Semi VOA
Method(s) 8082, 8082A: The following samples were diluted to bring the concentration of target analytes within the calibration range: Fence Oil Shed (500-81436-2), Ramp Oil Shed (500-81436-1). Elevated reporting limits (RLs) are provided.

Method(s) 8082, 8082A: The following samples required a dilution due to the nature of the sample matrix: Fence Oil Shed (500-81436-2), Ramp Oil Shed (500-81436-1). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

Metals
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: Madison-Kipp Corporation
Project/Site: MadisonKipp - Oil Shed

TestAmerica Job ID: 500-81436-1

Client Sample ID: Ramp Oil Shed — Lab Sample ID: 500-81436-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
WI Gasoline Range Organics (C5-C10)	1100	J	1600	530	ug/Kg	50	☼	WI-GRO	Total/NA
PCB-1242	4100		330	110	ug/Kg	20		8082	Total/NA
Polychlorinated biphenyls, Total	4100		330	63	ug/Kg	20		8082	Total/NA
Barium	0.14	J	0.50	0.050	mg/L	1		6010B	TCLP
Chromium	0.011	J	0.025	0.010	mg/L	1		6010B	TCLP
Selenium	0.015	J B	0.050	0.010	mg/L	1		6010B	TCLP

Client Sample ID: Fence Oil Shed — Lab Sample ID: 500-81436-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
WI Gasoline Range Organics (C5-C10)	5600		1500	510	ug/Kg	50	☼	WI-GRO	Total/NA
PCB-1242	1300000		170000	55000	ug/Kg	10000		8082	Total/NA
Polychlorinated biphenyls, Total	1300000		170000	32000	ug/Kg	10000		8082	Total/NA
Barium	0.052	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.012		0.0050	0.0020	mg/L	1		6010B	TCLP
Selenium	0.017	J B	0.050	0.010	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - Oil Shed

TestAmerica Job ID: 500-81436-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
WI-GRO	Wisconsin - Gasoline Range Organics (GC)	WI-GRO	TAL CHI
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
7470A	Mercury (CVAA)	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

WI-GRO = "Modified GRO: Method For Determining Gasoline Range Organics", Wisconsin DNR, Publ-SW-140, September, 1995.

Laboratory References:

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

Sample Summary

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - Oil Shed

TestAmerica Job ID: 500-81436-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-81436-1	Ramp Oil Shed	Solid	07/29/14 12:30	07/30/14 10:10
500-81436-2	Fence Oil Shed	Solid	07/29/14 13:00	07/30/14 10:10

Client Sample ID: Ramp Oil Shed
Date Collected: 07/29/14 12:30
Date Received: 07/30/14 10:10

Lab Sample ID: 500-81436-1
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.010		0.020	0.010	mg/L			08/02/14 11:35	20
Carbon tetrachloride	<0.010		0.020	0.010	mg/L			08/02/14 11:35	20
Chlorobenzene	<0.010		0.020	0.010	mg/L			08/02/14 11:35	20
Chloroform	<0.010		0.020	0.010	mg/L			08/02/14 11:35	20
1,2-Dichloroethane	<0.010		0.020	0.010	mg/L			08/02/14 11:35	20
1,1-Dichloroethene	<0.010		0.020	0.010	mg/L			08/02/14 11:35	20
Methyl Ethyl Ketone	<0.050		0.10	0.050	mg/L			08/02/14 11:35	20
Tetrachloroethene	<0.010		0.020	0.010	mg/L			08/02/14 11:35	20
Trichloroethene	<0.010		0.020	0.010	mg/L			08/02/14 11:35	20
Vinyl chloride	<0.010		0.020	0.010	mg/L			08/02/14 11:35	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 125*		*08/02/14 11:35*	*20*
Toluene-d8 (Surr)	*105*		*75 - 120*		*08/02/14 11:35*	*20*
4-Bromofluorobenzene (Surr)	*104*		*75 - 120*		*08/02/14 11:35*	*20*
Dibromofluoromethane	*94*		*75 - 120*		*08/02/14 11:35*	*20*

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C5-C10)	**1100**	**J**	1600	530	ug/Kg	☼	07/31/14 06:25	08/01/14 04:48	50

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<120		330	120	ug/Kg		08/01/14 07:20	08/04/14 08:44	20
PCB-1221	<140		330	140	ug/Kg		08/01/14 07:20	08/04/14 08:44	20
PCB-1232	<140		330	140	ug/Kg		08/01/14 07:20	08/04/14 08:44	20
PCB-1242	**4100**		330	110	ug/Kg		08/01/14 07:20	08/04/14 08:44	20
PCB-1248	<130		330	130	ug/Kg		08/01/14 07:20	08/04/14 08:44	20
PCB-1254	<71		330	71	ug/Kg		08/01/14 07:20	08/04/14 08:44	20
PCB-1260	<160		330	160	ug/Kg		08/01/14 07:20	08/04/14 08:44	20
Polychlorinated biphenyls, Total	**4100**		330	63	ug/Kg		08/01/14 07:20	08/04/14 08:44	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*D*	*50 - 116*	*08/01/14 07:20*	*08/04/14 08:44*	*20*
DCB Decachlorobiphenyl	*0*	*D*	*48 - 142*	*08/01/14 07:20*	*08/04/14 08:44*	*20*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/01/14 09:00	08/01/14 22:27	1
Barium	**0.14**	**J**	0.50	0.050	mg/L		08/01/14 09:00	08/01/14 22:27	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/01/14 09:00	08/01/14 22:27	1
Chromium	**0.011**	**J**	0.025	0.010	mg/L		08/01/14 09:00	08/01/14 22:27	1
Lead	<0.0075		0.050	0.0075	mg/L		08/01/14 09:00	08/01/14 22:27	1
Selenium	**0.015**	**J B**	0.050	0.010	mg/L		08/01/14 09:00	08/01/14 22:27	1
Silver	<0.010		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 22:27	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/01/14 13:11	08/04/14 14:32	1

Client Sample ID: Fence Oil Shed

Date Collected: 07/29/14 13:00
Date Received: 07/30/14 10:10

Lab Sample ID: 500-81436-2
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.010		0.020	0.010	mg/L			08/02/14 12:03	20
Carbon tetrachloride	<0.010		0.020	0.010	mg/L			08/02/14 12:03	20
Chlorobenzene	<0.010		0.020	0.010	mg/L			08/02/14 12:03	20
Chloroform	<0.010		0.020	0.010	mg/L			08/02/14 12:03	20
1,2-Dichloroethane	<0.010		0.020	0.010	mg/L			08/02/14 12:03	20
1,1-Dichloroethene	<0.010		0.020	0.010	mg/L			08/02/14 12:03	20
Methyl Ethyl Ketone	<0.050		0.10	0.050	mg/L			08/02/14 12:03	20
Tetrachloroethene	<0.010		0.020	0.010	mg/L			08/02/14 12:03	20
Trichloroethene	<0.010		0.020	0.010	mg/L			08/02/14 12:03	20
Vinyl chloride	<0.010		0.020	0.010	mg/L			08/02/14 12:03	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 125*		*08/02/14 12:03*	*20*
Toluene-d8 (Surr)	*106*		*75 - 120*		*08/02/14 12:03*	*20*
4-Bromofluorobenzene (Surr)	*106*		*75 - 120*		*08/02/14 12:03*	*20*
Dibromofluoromethane	*96*		*75 - 120*		*08/02/14 12:03*	*20*

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C5-C10)	**5600**		1500	510	ug/Kg	☼	07/31/14 06:25	08/01/14 05:24	50

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<59000		170000	59000	ug/Kg		08/01/14 07:20	08/04/14 08:58	10000
PCB-1221	<73000		170000	73000	ug/Kg		08/01/14 07:20	08/04/14 08:58	10000
PCB-1232	<72000		170000	72000	ug/Kg		08/01/14 07:20	08/04/14 08:58	10000
PCB-1242	**1300000**		170000	55000	ug/Kg		08/01/14 07:20	08/04/14 08:58	10000
PCB-1248	<65000		170000	65000	ug/Kg		08/01/14 07:20	08/04/14 08:58	10000
PCB-1254	<36000		170000	36000	ug/Kg		08/01/14 07:20	08/04/14 08:58	10000
PCB-1260	<82000		170000	82000	ug/Kg		08/01/14 07:20	08/04/14 08:58	10000
Polychlorinated biphenyls, Total	**1300000**		170000	32000	ug/Kg		08/01/14 07:20	08/04/14 08:58	10000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*D*	*50 - 116*	*08/01/14 07:20*	*08/04/14 08:58*	*10000*
DCB Decachlorobiphenyl	*0*	*D*	*48 - 142*	*08/01/14 07:20*	*08/04/14 08:58*	*10000*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/01/14 09:00	08/01/14 22:32	1
Barium	**0.052**	**J**	0.50	0.050	mg/L		08/01/14 09:00	08/01/14 22:32	1
Cadmium	**0.012**		0.0050	0.0020	mg/L		08/01/14 09:00	08/01/14 22:32	1
Chromium	<0.010		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 22:32	1
Lead	<0.0075		0.050	0.0075	mg/L		08/01/14 09:00	08/01/14 22:32	1
Selenium	**0.017**	**J B**	0.050	0.010	mg/L		08/01/14 09:00	08/01/14 22:32	1
Silver	<0.010		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 22:32	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/01/14 13:11	08/04/14 14:34	1

Qualifiers

GC 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 Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.

Metals

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.
B	Compound was found in the blank and sample.

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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)

GC/MS VOA

Leach Batch: 247618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-81436-1	Ramp Oil Shed	TCLP	Solid	1311	
500-81436-2	Fence Oil Shed	TCLP	Solid	1311	
LB 500-247618/1-A	Method Blank	TCLP	Solid	1311	

Analysis Batch: 247790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-247618/1-A	Method Blank	TCLP	Solid	8260B	247618
LCS 500-247790/6	Lab Control Sample	Total/NA	Solid	8260B	
MB 500-247790/8	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 247913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-81436-1	Ramp Oil Shed	TCLP	Solid	8260B	247618
500-81436-2	Fence Oil Shed	TCLP	Solid	8260B	247618
LCS 500-247913/4	Lab Control Sample	Total/NA	Solid	8260B	
MB 500-247913/6	Method Blank	Total/NA	Solid	8260B	

GC VOA

Prep Batch: 247491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-81436-1	Ramp Oil Shed	Total/NA	Solid	5035	
500-81436-2	Fence Oil Shed	Total/NA	Solid	5035	
LB3 500-247491/11-A	Method Blank	Total/NA	Solid	5035	
LCS 500-247491/13-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 500-247491/14-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 247701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-81436-1	Ramp Oil Shed	Total/NA	Solid	WI-GRO	247491
500-81436-2	Fence Oil Shed	Total/NA	Solid	WI-GRO	247491
LB3 500-247491/11-A	Method Blank	Total/NA	Solid	WI-GRO	247491
LCS 500-247491/13-A	Lab Control Sample	Total/NA	Solid	WI-GRO	247491
LCSD 500-247491/14-A	Lab Control Sample Dup	Total/NA	Solid	WI-GRO	247491

GC Semi VOA

Prep Batch: 247727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-81436-1	Ramp Oil Shed	Total/NA	Solid	3541	
500-81436-2	Fence Oil Shed	Total/NA	Solid	3541	
LCS 500-247727/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-247727/1-A	Method Blank	Total/NA	Solid	3541	

Analysis Batch: 247879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-81436-1	Ramp Oil Shed	Total/NA	Solid	8082	247727
500-81436-2	Fence Oil Shed	Total/NA	Solid	8082	247727
LCS 500-247727/2-A	Lab Control Sample	Total/NA	Solid	8082	247727
MB 500-247727/1-A	Method Blank	Total/NA	Solid	8082	247727

QC Association Summary

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - Oil Shed

TestAmerica Job ID: 500-81436-1

Metals

Leach Batch: 247613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-81436-1	Ramp Oil Shed	TCLP	Solid	1311	
500-81436-2	Fence Oil Shed	TCLP	Solid	1311	
LB2 500-247613/1-B	Method Blank	TCLP	Solid	1311	
LB2 500-247613/1-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 247782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-81436-1	Ramp Oil Shed	TCLP	Solid	3010A	247613
500-81436-2	Fence Oil Shed	TCLP	Solid	3010A	247613
LB2 500-247613/1-B	Method Blank	TCLP	Solid	3010A	247613
LCS 500-247782/3-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 247827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-81436-1	Ramp Oil Shed	TCLP	Solid	7470A	247613
500-81436-2	Fence Oil Shed	TCLP	Solid	7470A	247613
LB2 500-247613/1-C	Method Blank	TCLP	Solid	7470A	247613
LCS 500-247827/13-A	Lab Control Sample	Total/NA	Solid	7470A	
MB 500-247827/12-A	Method Blank	Total/NA	Solid	7470A	

Analysis Batch: 248024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-81436-1	Ramp Oil Shed	TCLP	Solid	6010B	247782
500-81436-2	Fence Oil Shed	TCLP	Solid	6010B	247782
LB2 500-247613/1-B	Method Blank	TCLP	Solid	6010B	247782
LCS 500-247782/3-A	Lab Control Sample	Total/NA	Solid	6010B	247782

Analysis Batch: 248129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-81436-1	Ramp Oil Shed	TCLP	Solid	7470A	247827
500-81436-2	Fence Oil Shed	TCLP	Solid	7470A	247827
LB2 500-247613/1-C	Method Blank	TCLP	Solid	7470A	247827
LCS 500-247827/13-A	Lab Control Sample	Total/NA	Solid	7470A	247827
MB 500-247827/12-A	Method Blank	Total/NA	Solid	7470A	247827

General Chemistry

Analysis Batch: 247384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-81436-1	Ramp Oil Shed	Total/NA	Solid	Moisture	
500-81436-2	Fence Oil Shed	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - Oil Shed

TestAmerica Job ID: 500-81436-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

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

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(75-125)	(75-120)	(75-120)	(75-120)
LCS 500-247790/6	Lab Control Sample	104	107	100	99
LCS 500-247913/4	Lab Control Sample	97	110	99	98
MB 500-247790/8	Method Blank	105	106	106	98
MB 500-247913/6	Method Blank	97	109	101	94

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(75-125)	(75-120)	(75-120)	(75-120)
500-81436-1	Ramp Oil Shed	103	105	104	94
500-81436-2	Fence Oil Shed	105	106	106	96
LB 500-247618/1-A	Method Blank	104	108	103	96

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

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

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(50-116)	(48-142)
500-81436-1	Ramp Oil Shed	0 D	0 D
500-81436-2	Fence Oil Shed	0 D	0 D
LCS 500-247727/2-A	Lab Control Sample	97	104
MB 500-247727/1-A	Method Blank	92	102

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-247790/8
Matrix: Solid
Analysis Batch: 247790

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00050		0.0010	0.00050	mg/L			08/01/14 15:01	1
Carbon tetrachloride	<0.00050		0.0010	0.00050	mg/L			08/01/14 15:01	1
Chlorobenzene	<0.00050		0.0010	0.00050	mg/L			08/01/14 15:01	1
Chloroform	<0.00050		0.0010	0.00050	mg/L			08/01/14 15:01	1
1,2-Dichloroethane	<0.00050		0.0010	0.00050	mg/L			08/01/14 15:01	1
1,1-Dichloroethene	<0.00050		0.0010	0.00050	mg/L			08/01/14 15:01	1
Methyl Ethyl Ketone	<0.0025		0.0050	0.0025	mg/L			08/01/14 15:01	1
Tetrachloroethene	<0.00050		0.0010	0.00050	mg/L			08/01/14 15:01	1
Trichloroethene	<0.00050		0.0010	0.00050	mg/L			08/01/14 15:01	1
Vinyl chloride	<0.00050		0.0010	0.00050	mg/L			08/01/14 15:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 125*		*08/01/14 15:01*	*1*
Toluene-d8 (Surr)	*106*		*75 - 120*		*08/01/14 15:01*	*1*
4-Bromofluorobenzene (Surr)	*106*		*75 - 120*		*08/01/14 15:01*	*1*
Dibromofluoromethane	*98*		*75 - 120*		*08/01/14 15:01*	*1*

Lab Sample ID: LCS 500-247790/6
Matrix: Solid
Analysis Batch: 247790

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.0465		mg/L		93	70 - 120
Carbon tetrachloride	0.0500	0.0487		mg/L		97	70 - 125
Chlorobenzene	0.0500	0.0476		mg/L		95	70 - 120
Chloroform	0.0500	0.0461		mg/L		92	70 - 120
1,2-Dichloroethane	0.0500	0.0460		mg/L		92	69 - 120
1,1-Dichloroethene	0.0500	0.0454		mg/L		91	58 - 122
Methyl Ethyl Ketone	0.0500	0.0533		mg/L		107	54 - 138
Tetrachloroethene	0.0500	0.0480		mg/L		96	70 - 123
Trichloroethene	0.0500	0.0479		mg/L		96	70 - 120
Vinyl chloride	0.0500	0.0499		mg/L		100	62 - 138

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 125*
Toluene-d8 (Surr)	*107*		*75 - 120*
4-Bromofluorobenzene (Surr)	*100*		*75 - 120*
Dibromofluoromethane	*99*		*75 - 120*

Lab Sample ID: MB 500-247913/6
Matrix: Solid
Analysis Batch: 247913

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00050		0.0010	0.00050	mg/L			08/02/14 11:06	1
Carbon tetrachloride	<0.00050		0.0010	0.00050	mg/L			08/02/14 11:06	1
Chlorobenzene	<0.00050		0.0010	0.00050	mg/L			08/02/14 11:06	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-247913/6
Matrix: Solid
Analysis Batch: 247913

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<0.00050		0.0010	0.00050	mg/L			08/02/14 11:06	1
1,2-Dichloroethane	<0.00050		0.0010	0.00050	mg/L			08/02/14 11:06	1
1,1-Dichloroethene	<0.00050		0.0010	0.00050	mg/L			08/02/14 11:06	1
Methyl Ethyl Ketone	<0.0025		0.0050	0.0025	mg/L			08/02/14 11:06	1
Tetrachloroethene	<0.00050		0.0010	0.00050	mg/L			08/02/14 11:06	1
Trichloroethene	<0.00050		0.0010	0.00050	mg/L			08/02/14 11:06	1
Vinyl chloride	<0.00050		0.0010	0.00050	mg/L			08/02/14 11:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 125*		*08/02/14 11:06*	*1*
Toluene-d8 (Surr)	*109*		*75 - 120*		*08/02/14 11:06*	*1*
4-Bromofluorobenzene (Surr)	*101*		*75 - 120*		*08/02/14 11:06*	*1*
Dibromofluoromethane	*94*		*75 - 120*		*08/02/14 11:06*	*1*

Lab Sample ID: LCS 500-247913/4
Matrix: Solid
Analysis Batch: 247913

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.0468		mg/L		94	70 - 120
Carbon tetrachloride	0.0500	0.0508		mg/L		102	70 - 125
Chlorobenzene	0.0500	0.0485		mg/L		97	70 - 120
Chloroform	0.0500	0.0451		mg/L		90	70 - 120
1,2-Dichloroethane	0.0500	0.0424		mg/L		85	69 - 120
1,1-Dichloroethene	0.0500	0.0467		mg/L		93	58 - 122
Methyl Ethyl Ketone	0.0500	0.0444		mg/L		89	54 - 138
Tetrachloroethene	0.0500	0.0528		mg/L		106	70 - 123
Trichloroethene	0.0500	0.0500		mg/L		100	70 - 120
Vinyl chloride	0.0500	0.0504		mg/L		101	62 - 138

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 125*
Toluene-d8 (Surr)	*110*		*75 - 120*
4-Bromofluorobenzene (Surr)	*99*		*75 - 120*
Dibromofluoromethane	*98*		*75 - 120*

Lab Sample ID: LB 500-247618/1-A
Matrix: Solid
Analysis Batch: 247790

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.010		0.020	0.010	mg/L			08/01/14 16:28	20
Carbon tetrachloride	<0.010		0.020	0.010	mg/L			08/01/14 16:28	20
Chlorobenzene	<0.010		0.020	0.010	mg/L			08/01/14 16:28	20
Chloroform	<0.010		0.020	0.010	mg/L			08/01/14 16:28	20
1,2-Dichloroethane	<0.010		0.020	0.010	mg/L			08/01/14 16:28	20
1,1-Dichloroethene	<0.010		0.020	0.010	mg/L			08/01/14 16:28	20
Methyl Ethyl Ketone	<0.050		0.10	0.050	mg/L			08/01/14 16:28	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB 500-247618/1-A
Matrix: Solid
Analysis Batch: 247790

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.010		0.020	0.010	mg/L			08/01/14 16:28	20
Trichloroethene	<0.010		0.020	0.010	mg/L			08/01/14 16:28	20
Vinyl chloride	<0.010		0.020	0.010	mg/L			08/01/14 16:28	20

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 125*		*08/01/14 16:28*	*20*
Toluene-d8 (Surr)	*108*		*75 - 120*		*08/01/14 16:28*	*20*
4-Bromofluorobenzene (Surr)	*103*		*75 - 120*		*08/01/14 16:28*	*20*
Dibromofluoromethane	*96*		*75 - 120*		*08/01/14 16:28*	*20*

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Lab Sample ID: LB3 500-247491/11-A
Matrix: Solid
Analysis Batch: 247701

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 247491

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C5-C10)	<500		1500	500	ug/Kg		07/31/14 06:00	08/01/14 02:58	50

Lab Sample ID: LCS 500-247491/13-A
Matrix: Solid
Analysis Batch: 247701

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 247491

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
WI Gasoline Range Organics (C5-C10)	20000	19600		ug/Kg		98	80 - 120

Lab Sample ID: LCSD 500-247491/14-A
Matrix: Solid
Analysis Batch: 247701

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 247491

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Gasoline Range Organics (C5-C10)	20000	19000		ug/Kg		95	80 - 120	3	20

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-247727/1-A
Matrix: Solid
Analysis Batch: 247879

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 247727

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.9		17	5.9	ug/Kg		08/01/14 07:20	08/01/14 20:02	1
PCB-1221	<7.3		17	7.3	ug/Kg		08/01/14 07:20	08/01/14 20:02	1
PCB-1232	<7.3		17	7.3	ug/Kg		08/01/14 07:20	08/01/14 20:02	1
PCB-1242	<5.5		17	5.5	ug/Kg		08/01/14 07:20	08/01/14 20:02	1
PCB-1248	<6.6		17	6.6	ug/Kg		08/01/14 07:20	08/01/14 20:02	1
PCB-1254	<3.6		17	3.6	ug/Kg		08/01/14 07:20	08/01/14 20:02	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 500-247727/1-A
Matrix: Solid
Analysis Batch: 247879

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 247727

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	<8.2		17	8.2	ug/Kg		08/01/14 07:20	08/01/14 20:02	1
Polychlorinated biphenyls, Total	<3.2		17	3.2	ug/Kg		08/01/14 07:20	08/01/14 20:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*92*		*50 - 116*	*08/01/14 07:20*	*08/01/14 20:02*	*1*
DCB Decachlorobiphenyl	*102*		*48 - 142*	*08/01/14 07:20*	*08/01/14 20:02*	*1*

Lab Sample ID: LCS 500-247727/2-A
Matrix: Solid
Analysis Batch: 247879

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 247727

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	167	169		ug/Kg		102	59 - 110
PCB-1260	167	164		ug/Kg		98	69 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*97*		*50 - 116*
DCB Decachlorobiphenyl	*104*		*48 - 142*

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-247782/3-A
Matrix: Solid
Analysis Batch: 248024

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 247782

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.0890		mg/L		89	80 - 120
Barium	0.500	0.511		mg/L		102	80 - 120
Cadmium	0.0500	0.0472		mg/L		94	80 - 120
Chromium	0.200	0.201		mg/L		100	80 - 120
Lead	0.100	0.0930		mg/L		93	80 - 120
Selenium	0.100	0.0869		mg/L		87	80 - 120
Silver	0.0500	0.0477		mg/L		95	80 - 120

Lab Sample ID: LB2 500-247613/1-B
Matrix: Solid
Analysis Batch: 248024

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 247782

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		08/01/14 09:00	08/01/14 20:22	1
Barium	<0.050		0.50	0.050	mg/L		08/01/14 09:00	08/01/14 20:22	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		08/01/14 09:00	08/01/14 20:22	1
Chromium	<0.010		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 20:22	1
Lead	<0.0075		0.050	0.0075	mg/L		08/01/14 09:00	08/01/14 20:22	1
Selenium	0.0109	J	0.050	0.010	mg/L		08/01/14 09:00	08/01/14 20:22	1
Silver	<0.010		0.025	0.010	mg/L		08/01/14 09:00	08/01/14 20:22	1

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - Oil Shed

TestAmerica Job ID: 500-81436-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-247827/12-A
Matrix: Solid
Analysis Batch: 248129

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 247827

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/01/14 13:11	08/04/14 13:43	1

Lab Sample ID: LCS 500-247827/13-A
Matrix: Solid
Analysis Batch: 248129

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 247827

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00180		mg/L		90	80 - 120

Lab Sample ID: LB2 500-247613/1-C
Matrix: Solid
Analysis Batch: 248129

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 247827

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		08/01/14 13:11	08/04/14 13:49	1

Lab Chronicle

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - Oil Shed

TestAmerica Job ID: 500-81436-1

Client Sample ID: Ramp Oil Shed

Lab Sample ID: 500-81436-1

Date Collected: 07/29/14 12:30

Matrix: Solid

Date Received: 07/30/14 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			247618	07/31/14 14:27	MJD	TAL CHI
TCLP	Analysis	8260B		20	247913	08/02/14 11:35	JLH	TAL CHI
Total/NA	Prep	5035			247491	07/31/14 06:25	WRE	TAL CHI
Total/NA	Analysis	WI-GRO		50	247701	08/01/14 04:48	WRE	TAL CHI
Total/NA	Prep	3541			247727	08/01/14 07:20	STW	TAL CHI
Total/NA	Analysis	8082		20	247879	08/04/14 08:44	GMO	TAL CHI
TCLP	Leach	1311			247613	07/31/14 14:12	MJD	TAL CHI
TCLP	Prep	3010A			247782	08/01/14 09:00	MJP	TAL CHI
TCLP	Analysis	6010B		1	248024	08/01/14 22:27	PJ1	TAL CHI
TCLP	Leach	1311			247613	07/31/14 14:12	MJD	TAL CHI
TCLP	Prep	7470A			247827	08/01/14 13:11	RLL	TAL CHI
TCLP	Analysis	7470A		1	248129	08/04/14 14:32	RLL	TAL CHI
Total/NA	Analysis	Moisture		1	247384	07/30/14 14:37	LWN	TAL CHI

Client Sample ID: Fence Oil Shed

Lab Sample ID: 500-81436-2

Date Collected: 07/29/14 13:00

Matrix: Solid

Date Received: 07/30/14 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			247618	07/31/14 14:27	MJD	TAL CHI
TCLP	Analysis	8260B		20	247913	08/02/14 12:03	JLH	TAL CHI
Total/NA	Prep	5035			247491	07/31/14 06:25	WRE	TAL CHI
Total/NA	Analysis	WI-GRO		50	247701	08/01/14 05:24	WRE	TAL CHI
Total/NA	Prep	3541			247727	08/01/14 07:20	STW	TAL CHI
Total/NA	Analysis	8082		10000	247879	08/04/14 08:58	GMO	TAL CHI
TCLP	Leach	1311			247613	07/31/14 14:12	MJD	TAL CHI
TCLP	Prep	3010A			247782	08/01/14 09:00	MJP	TAL CHI
TCLP	Analysis	6010B		1	248024	08/01/14 22:32	PJ1	TAL CHI
TCLP	Leach	1311			247613	07/31/14 14:12	MJD	TAL CHI
TCLP	Prep	7470A			247827	08/01/14 13:11	RLL	TAL CHI
TCLP	Analysis	7470A		1	248129	08/04/14 14:34	RLL	TAL CHI
Total/NA	Analysis	Moisture		1	247384	07/30/14 14:37	LWN	TAL CHI

Laboratory References:

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

Certification Summary

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - Oil Shed

TestAmerica Job ID: 500-81436-1

Laboratory: TestAmerica Chicago

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	999580010	08-31-14 *

* Certification renewal pending - certification considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 604
Phone: 708.534.5200 Fax: 708.534.

500-81436 COC

(optional)

Report To
Contact: Alina Walcek
Company: Madison Kipp
Address: 201 Waubesa St.
Address: Madison, WI 53704
Phone: 608-242-5200
Fax:
E-Mail: awalcek@madison-kipp.com

(optional)

Bill To
Contact: Alina Walcek
Company: Madison Kipp
Address: PO Box 8043
Address: Madison, WI 53708
Phone: 608-242-5200
Fax:
PO#/Reference# 98552

Chain of Custody Record

Lab Job #: 500-81436

Chain of Custody Number:

Page 1 of 1

Temperature °C of Cooler: 1.6

Client: Madison Kipp | Client Project #: 98552
Project Name: Oil Shed
Project Location/State: Madison, WI | Lab Project #:
Sampler: Spencer Koblinski | Lab PM:

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative									Parameter				Comments
							—	—	—	—						TCLP VOCs	TCLP lead/metals	PCBs	GRO	
1		Ramp oil shed	7/29	12:30	1	O										X	X	X	X	Concrete
2		Fence oil shed	7/29	1:00	1	O										X	X	X	X	concrete

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

Turnaround Time Required (Business Days) ASAP
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days X 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
Alina Walcek	MKC	7/29/14	15:00		TA	7/30/14	1010

Lab Courier
Shipped
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:

8/4/2014

Login Sample Receipt Checklist

Client: Madison-Kipp Corporation

Job Number: 500-81436-1

Login Number: 81436

List Number: 1

Creator: Lunt, Jeff T

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	1.6
Cooler Temperature is recorded.	True	
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.	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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Attachment C

Supplemental Work Plan for Polychlorinated Biphenyl Building Subsurface Investigation

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Infrastructure · Water · Environment · Buildings

Imagine the result

Madison Kipp Corporation

Supplemental Building Interior Polychlorinated Biphenyl Investigation Work Plan

Madison-Kipp Corporation
Madison, Wisconsin

BRRTS No. 02-13-558625
Facility ID No. 113125320

October 2014

ARCADIS

Trenna Seilheimer
Project Scientist

Jennine Trask, PE
Project Manager

Supplemental Work Plan for Polychlorinated Biphenyl Building Subsurface Investigation

Madison-Kipp Corporation
Madison, Wisconsin

Prepared for:
Madison-Kipp Corporation

Prepared by:
ARCADIS U.S., Inc.
126 North Jefferson Street
Suite 400
Milwaukee
Wisconsin 53202
Tel 414 276 7742
Fax 414 276 7603

Our Ref.:
WI001368.0022

Date:
October 22, 2014

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ARCADIS

Supplemental Building Interior Polychlorinated Biphenyl Investigation Work Plan

Madison-Kipp Corporation
Madison, Wisconsin

1. Introduction

On behalf of Madison-Kipp Corporation, ARCADIS has been retained to prepare a work plan for supplemental interior building investigation activities at its facility located at 201 Waubesa Street in Madison, Wisconsin (Site). Below is a chronology of work plans, reports, meetings, and responses from the Wisconsin Department of Natural Resources (WDNR) and United States Environmental Protection Agency (U.S. EPA).

- On May 31, 2012, a *Site Investigation Work Plan* (Work Plan) was submitted to the WDNR for approval to complete site investigation activities at the Site (ARCADIS, 2012a). The WDNR provided a *Conditional Approval* letter dated June 25, 2012, for this Work Plan (WDNR, 2012a).

- On September 28, 2012, a *Site Investigation Work Plan Addendum, Building Subsurface Investigation* (Addendum) was submitted to the WDNR (ARCADIS, 2012b). The Addendum was approved by WDNR in a letter dated October 17, 2012 (WDNR, 2012b).

- On February 14, 2013, a *Building Subsurface Investigation Summary* was submitted to the WDNR to summarize the investigation activities and results (ARCADIS, 2013a).

- On March 15, 2013, a *Site Investigation and Interim Actions Report, February 2012 – January 2013* (SI Report) was submitted to the WDNR to summarize investigation activities and results for the reporting period (ARCADIS, 2013b). On May 29, 2013, a *Supplemental Site Information/Addendum 1* was submitted to the WDNR to provide further information regarding the Site (SI Addendum 1) (ARCADIS, 2013c). The SI Report was reviewed by the WDNR and a response letter dated June 20, 2013, was prepared that requested a work plan to address ”sampling for degree and extent of PCB [polychlorinated biphenyls] and VOC [volatile organic compounds] soil contamination beneath the MKC manufacturing buildings.”

- On July 8, 2013, ARCADIS met with the WDNR to discuss the agency’s June 20, 2013, response letter and requested a joint meeting with the WDNR and U.S. EPA to clarify the investigation expectations for beneath the manufacturing building.

- On July 23, 2013, ARCADIS met with the WDNR and U.S. EPA to discuss the investigation results completed to date, conduct a site walk, and discuss the objective of additional investigation activities.

- On August 1, 2013, a *Supplemental Work Plan for Polychlorinated Biphenyl Building Subsurface Investigation* (Work Plan) was submitted to the WDNR (ARCADIS, 2013d). The Work Plan was approved by WDNR in the *Madison Kipp Corporation (MKC) Work Plan Reviews* letter dated October 9, 2013 (WDNR, 2013b).

- On April 22, 2014, a *Supplemental Building Interior Polychlorinated Biphenyl Work Plan Subsurface Investigation Summary* (SI Report) was submitted to the WDNR to provide details of the investigation completed from December 2013 through February 2014 (ARCADIS, 2014).

- On August 27, 2014, ARCADIS met with the WDNR and U.S. EPA to discuss the next steps for addressing the soils containing PCBs beneath the building. At this meeting U.S. EPA requested the completion of indoor air and surface wipe sampling activities, a technical justification submittal for management of PCB contaminated soils beneath the building, and additional soil investigation activities for beneath the building.

This report presents a work plan for completing additional soil investigation activities to document PCBs beneath the manufacturing building as discussed during the August 27, 2014, meeting with the WDNR and U.S. EPA. The information provided herein is based on the requirements of Natural Resources (NR) 716 Wis. Admin. Code. An NR 712.09 submittal certification is included in Appendix A.

2. Project Background

2.1 Site Location, Contacts, and Description

The Site is located at 201 Waubesa Street in Madison, Wisconsin. The Site is located in the southwest quarter of Section 5, Township 7 North, Range 10 East in Dane County. The location of the site is illustrated on a topographic quadrangle presented as Figure 2-1.

The following contact information is provided for the facility and environmental consultant:

Facility Representative:
Alina Satkoski
Madison-Kipp Corporation
201 Waubesa Street
Madison, Wisconsin 53704
608-242-5200 (telephone)
608-770-9401 (fax)
asatkoski@madison-kipp.com

Environmental Attorney:
David A. Crass
Michael Best & Friedrich, LLP
One South Pinckney Street, Suite 700
Madison, Wisconsin 53703
608-283-2267 (telephone)
608-283-2275 (fax)
dacrass@michaelbest.com

Environmental Consultant:
Jennine L. Trask, PE
ARCADIS US, Inc.
126 North Jefferson Street, Suite 400
Milwaukee, Wisconsin 53202
414-276-7742 (telephone)
jennine.trask@arcadis-us.com

The Site is approximately 7.5 acres in size. A 130,000-square foot building occupies much of the Site. Asphalt parking lots are located in the northeastern, southwestern and southeastern portions of the Site. The building has a 25,000-square foot second floor and a 25,000-square foot basement. Figure 2-2 depicts the layout of the Site. The Site is zoned M-1 (industrial/manufacturing). The Site is currently used as a metals casting facility.

The Site is located in the eastern portion of Madison, in a mixed use area of commercial, industrial and residential land use. The Site is bounded by a bicycle trail (Capital City Trail) to the north, Atwood Avenue to the south, and Waubesa Street to the west. Residences are located adjacent to the east and west sides of the Site, and further west (across Waubesa Street) and east (across Marquette Street). Commercial properties are located to the south (across Atwood Street) and further east. The Goodman Community Center is located to the north (across the Capital City Trail).

The Site is also located at the northeast end of the Madison isthmus, approximately 1,500 feet north of Lake Monona and approximately 6,800 feet east of Lake Mendota. The topography of the Site is relatively flat, with an elevation ranging from approximately 870 to 880 feet above mean sea level. The Site and surrounding area is serviced by municipal water supply and sewerage systems.

2.2 Surface Soil Geologic and Hydrogeologic Conditions

The geology under the building consists of 6 to 12 inches of concrete overlaying 4 to 8 feet of dark yellowish brown (10YR 4/4 to 10YR 4/6) clay with little to some silt, trace fine sand or gravel. The clay is generally stiff with low to moderate plasticity. Underlying the clay is brownish yellow (10YR 6/6), very fine to fine sand with trace to little gravel. Sandstone bedrock was encountered at approximately 36 feet. Groundwater was encountered at approximately 23 to 25 feet in monitoring wells MW-22 and MW-23 in July 2014.

3. Investigation Objectives

On August 27, 2014, ARCADIS met with the WDNR and U.S. EPA to discuss the next steps for addressing the soils containing PCBs beneath the building. The WDNR and U.S. EPA requested advancement and sampling of additional soil borings to document the concentrations of PCBs beyond the limits of the existing dataset. This work plan presents the means and methods for conducting the additional soil investigation activities.

4. Investigation Work Plan

The following sections present a description of the work to be completed during the investigation. The contents of this section were prepared in accordance with NR 716.09 Wis. Admin. Code.

4.1 Health and Safety

Utility marking arrangements will be made through Digger's Hotline (the State of Wisconsin Public Utility clearance service), a private utility locator, and/or discussions with property owners. Prior to beginning work each day, a "tailgate" health and safety briefing will be held to discuss the activities and identify ways to ensure the health and safety of Site workers. If conditions are encountered during Site investigation activities that differ from those outlined in the health and safety plan, the Site activities will be re-evaluated to determine the appropriate actions that will ensure the health and well-being of the workers.

4.2 Soil Boring Sampling and Analysis Plan

A Geoprobe and/or direct-push hand cart will be used to advance soil borings for collecting soil samples. Up to six soil borings will be advanced to the water table estimated at approximately 23 to 25 feet or refusal. The interior facility layout (e.g., machines, machine footprints, underground utility lines, inaccessible areas) will impact the below ground depth that can be achieved. During previous investigations, numerous "step-out" locations were advanced due to shallow refusal from subsurface obstructions and/or limitations of equipment. The locations of these borings are depicted on Figures 4-1 and 4-2. Below is a summary of the proposed drilling and soil sampling activities.

4.2.1 Drilling and Soil Sampling

The soil borings will be advanced using a Geoprobe and/or sampling hand cart equipped with a Geoprobe Large Bore Soil Sampler (or comparable equipment). Soil samples will be collected by driving a steel sampling rod (sampler) with acetate liners to the desired sampling depth using the hydraulic ram and hammer on the Geoprobe rig. Once the sampler reaches the desired depth, the sampler will be opened by removing a stop pin in the sampler. The sampler will be driven an additional 4 feet to push a soil

sample into the sampler, preserving the sample in a 1-inch by 4-foot acetate liner inside the sampler. The acetate sleeves will allow continuous collection of soil samples from each boring.

Companion sampling will be completed by collecting two aliquots of soil from each sampling interval and placing each aliquot into a separate resealable plastic bag. One of the companion samples from each interval will be used for field screening for the presence of total ionizable VOC vapors with a calibrated photoionization detector (PID). The screening samples will be warmed and the headspace PID reading of the soil will be taken by inserting the probe end of the PID into the plastic bag through the seal. The unscreened companion samples will be used for preparing samples for analytical testing.

An ARCADIS scientist will oversee the drilling activities and visually screen and describe the condition and engineering properties of the soil. Soil descriptions and field screening PID results will be recorded on Soil Boring Logs (WDNR Form 4400-122) in accordance with WDNR requirements.

Up to six soil borings will be advanced beneath the building. The locations of these borings are depicted on Figures 4-1 and 4-2. Soil samples will be collected and submitted to Environmental Chemistry Consulting Services, Inc. in Madison, Wisconsin for laboratory analysis of PCBs by Method 8082. Sampling will be completed as follows:

- Six soil borings will be advanced adjacent to the locations of Soil Borings B-158, B-179, B-180, B-181, and B-182, as discussed during the August 27, 2014 meeting. The soil borings will be advanced to the water table or where refusal is encountered, either by subsurface obstructions or limitations of equipment. Up to three soil samples will be collected per soil boring including one sample from a 2-foot interval located from 0 to 4 feet below land surface (bls), one from the 2-foot interval with the highest PID reading below the previously collected soil sample depth, and one from the 2-foot interval located above the water table or where refusal is encountered.

4.2.2 Quality Assurance

In accordance with U.S. EPA requirements, the quality assurance, quality control, and technical activities and procedures associated with implementing this work plan will be conducted per the approved quality assurance procedures presented in the *Final Revised Work Plan for Polychlorinated Biphenyl Recommended Activities* dated December 4, 2012.

4.3 Surveying

A Wisconsin-licensed surveyor will locate the horizontal location of each boring to Wisconsin state plane coordinates and vertical elevation. Ground elevations will be surveyed to a horizontal accuracy of +/-1 foot and vertical accuracy of +/-0.01 foot.

4.4 Management of Investigative-Derived Wastes

Soil cuttings and decontamination water from cleaning down-hole equipment generated during the investigation will be containerized in appropriate steel 55-gallon drums. Arrangements will be made with a licensed disposal facility for the transportation and disposal of the wastes.

4.5 Investigation Reporting

Following receipt of the soil analytical results, ARCADIS will prepare a letter report. The letter report will include a summary of the activities completed, summary of the field screening and analytical results, and confirm recommendations. Copies of all boring logs, borehole abandonment forms, and analytical reports will be included as attachments to the summary letter.

5. References

ARCADIS. 2012a. Site Investigation Work Plan. May 2012.

ARCADIS. 2012b. Site Investigation Work Plan Addendum, Building Subsurface Investigation. September 2012.

ARCADIS. 2013a. Building Subsurface Investigation Summary. February 2013.

ARCADIS. 2013b. Site Investigation and Interim Actions Report February 2012-January 2013. March 2013.

ARCADIS. 2013c. Supplemental Site Information/Addendum 1. May 2013.

ARCADIS. 2013d. Supplemental Work Plan for Polychlorinated Biphenyl Building Subsurface Investigation. August 2013.

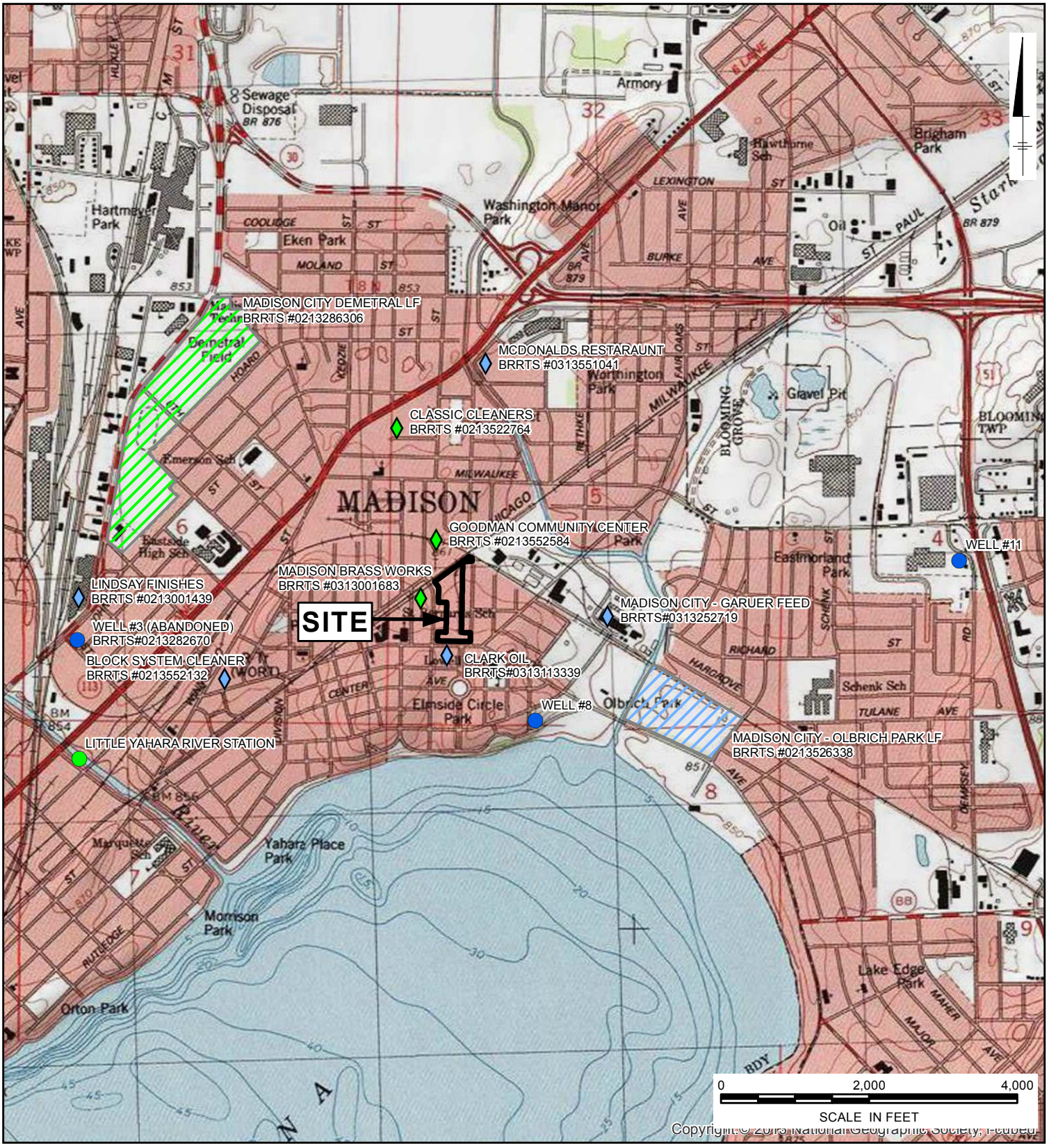
ARCADIS. 2014. Supplemental Building Interior Polychlorinated Biphenyl Work Plan Subsurface Investigation Summary. April 2014.

WDNR. 2012a. Conditional Approval: May 2012 Site Investigation Workplan. June 2012.

WDNR. 2012b. September 28, 2012 Site Investigation Work Plan Addendum: Building Subsurface Investigation. October 2012.

WDNR. 2013a. Review of March 2013 Madison Kipp Site Investigation and Interim Actions Report February 2012 – January 2013.

WDNR. 2013b. Madison Kipp Corporation (MKC) Work Plan Reviews. October 2013.



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LEGEND

- OPEN SITE (ONGOING CLEANUP)
- OPEN SITE - SITE BOUNDARIES
- CLOSED SITE (COMPLETED CLEANUP)
- CLOSED SITE - SITE BOUNDARIES
- GAUGING STATION
- MUNICIPAL WATER SUPPLY WELL
- PROJECT BOUNDARY

MADISON-KIPP CORPORATION
201 WAUBESA STREET
MADISON, WISCONSIN

SUPPLEMENTAL BUILDING INTERIOR POLYCHLORINATED BIPHENYL INVESTIGATION WORK PLAN

SITE LOCATION MAP

ARCADIS

FIGURE
2-1

CITY: MKE DIV/GROUP: IM DB: GM LD: CK MADISON-KIPP
I:\Madison_Kipp\Madison_Kipp\2013\Fig2_1_Site_Location_Map_8x11.mxd

Wirth Ct
Marquette St
Dixon St
Saint Paul Ave
Railroad
Waubesa St
Bike Path
La Follette Ave
Saint Paul Ave
Corry St
Waubesa St
Marquette St
Dixon St
Fairview St
Fair Oaks Ave
Atwood Ave

102
106
110
114
118
126
128
130
134
138
142
146
150
154
162
166
202
206
210
214
218
222
226
230

109
113
117
121
123
125
129
131
135
139
145
147
151
2902
174

230
234
238
242
246
250
254
256
262
266
270
274

233
237
241
245
249
253
257
261
265
269

201
203
209
213
217
221
225

LEGEND

PARCELS

BUILDING FOOTPRINTS

SITE

0 120 240

Feet

MADISON-KIPP CORPORATION
201 WAUBESA STREET
MADISON, WISCONSIN
SUPPLEMENTAL BUILDING INTERIOR POLYCHLORINATED BIPHENYL INVESTIGATION WORK PLAN

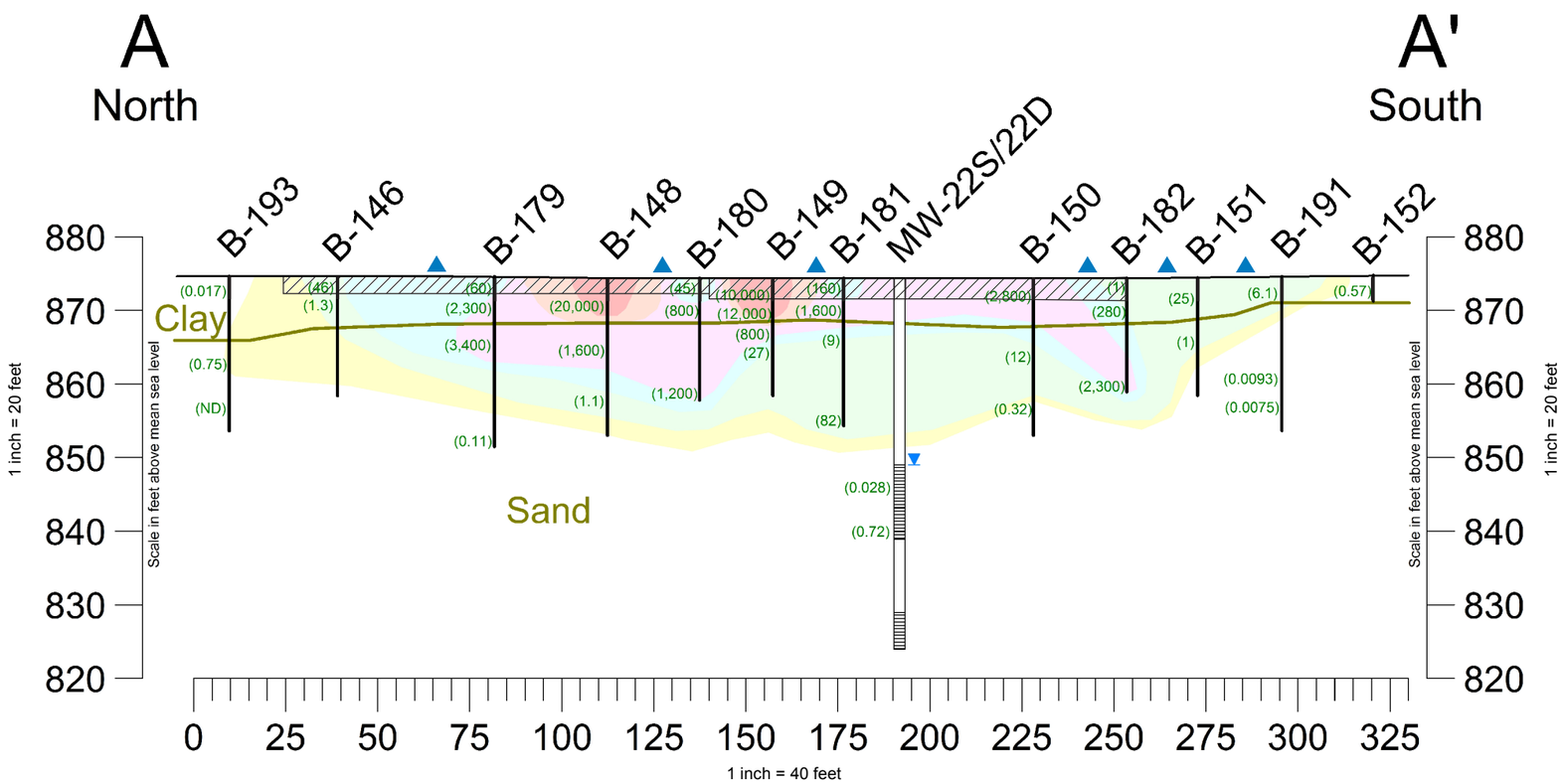
SITE LAYOUT MAP

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

FIGURE 2-2

CITY: MKE DIV/GROUP: IM DB: GM LD: CK MADISON-KIPP
I:\Madison_Kipp\Madison_Kipp\2013\Fig2-2_SITE_LAYOUT.mxd

Waubesa St
Bike Path
Marquette St
Fairview St
Waubesa St
Marquette St
Atwood Ave
HISTORIC HEAT TREATMENT QUENCH AREA
HISTORIC OIL STORAGE
HISTORIC COOLING WATER PIT
HISTORIC WASH TANKS
HISTORIC WASH TANKS
HISTORIC PROCESS PIPING TRENCH FOR DIE CASTINGS OPERATION
HISTORIC DIE LUBE AREA
PCB TRANSFORMERS
CHEMICAL STORAGE AREA
PRESSURE WASH SPRAY BOOTH
B-138
B-137
B-174
B-193
B-194
B-145
B-140
B-195
B-139
B-141
B-146
B-169
B-142
B-168
B-179
B-144
B-147
B-143
B-148
B-183
B-178
B-180
B-184
B-177
B-149
B-167
B-181
MW-22S
MW-22D
B-176
B-150
B-185
B-166
B-182
B-165
B-175
B-151
B-158
B-191
B-162
B-159
B-164
MW-23D
B-160
MW-23S
B-186
B-163
B-152
B-188
B-161
B-187
B-155
B-156
B-153
B-157
B-154
0
80
160
Feet
LEGEND
PROPOSED VERTICAL SOIL BORING
EXISTING SOIL BORING
MONITORING WELL
PARCELS
BUILDING FOOTPRINTS
BUILDING FEATURE
MADISON-KIPP CORPORATION
201 WAUBESA STREET
MADISON, WISCONSIN
SUPPLEMENTAL BUILDING INTERIOR POLYCHLORINATED BIPHENYL INVESTIGATION WORK PLAN
PROPOSED SOIL BORING LOCATIONS
ARCADIS
FIGURE 4-1
CITY: MKE DIV/GROUP: IM DB: GM LD: CK MADISON-KIPP
Z:\GISPROJECTS_ENV\MadisonKipp\ArcMap\2014-10\Proposed_Borings_20141017.mxd



Total Polychlorinated Biphenyl Isoconcentration Contour (mg/kg)

- >0.744 to 1
- 1 to 49
- 50 to 499
- 500 to 4,999
- 5000 to 9,999
- 10,000 to 20,000

LEGEND

- Well Screen
- Water Table Elevation for MW-22S in October 2013
- (27) Total Polychlorinated Biphenyl Concentration in mg/kg
- Geologic Contact

NOTE:

Vertical exaggeration = 2x

- Concrete and soil removal along the center aisle within the building (June/July 2014). Area replaced with clean, imported backfill and finished with new concrete.
- Proposed Boring Location

mg/kg milligram per kilogram

MADISON-KIPP CORPORATION
201 WAUBESA STREET
MADISON, WISCONSIN
SUPPLEMENTAL BUILDING INTERIOR POLYCHLORINATED BIPHENYL INVESTIGATION WORK PLAN

INTERIOR BUILDING TRENCH CROSS SECTION WITH PROPOSED SOIL BORING LOCATIONS

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FIGURE 4-2

16OCT14\ENVIRONMENT\CK\LMB
MADISONKPP\WI001368\GRAPHICS\INTERIOR BLDG TRENCH XSEC TOTAL PCBS.AI

Appendix A

Submittal Certification

ARCADIS

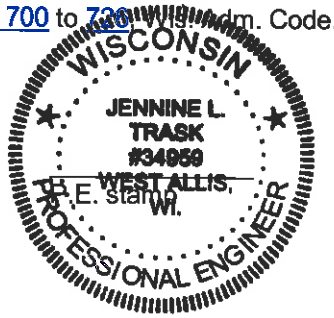
Submittal Certification

This attachment was prepared to satisfy the requirements of Wisconsin Administrative Code Chapter NR 712.09 and is applicable to the following document.

Supplemental Building Interior Polychlorinated Biphenyl Investigation Work Plan
Madison-Kipp Corporation
201 Waubesa Street
Madison, Wisconsin

"I, Jennine Trask, 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."

J Trask com #34959
Signature, title and P.E. number



P.E. stamp

"I, Trenna Seilheimer, 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 of the 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."

Signature and title

10/22/14
Date