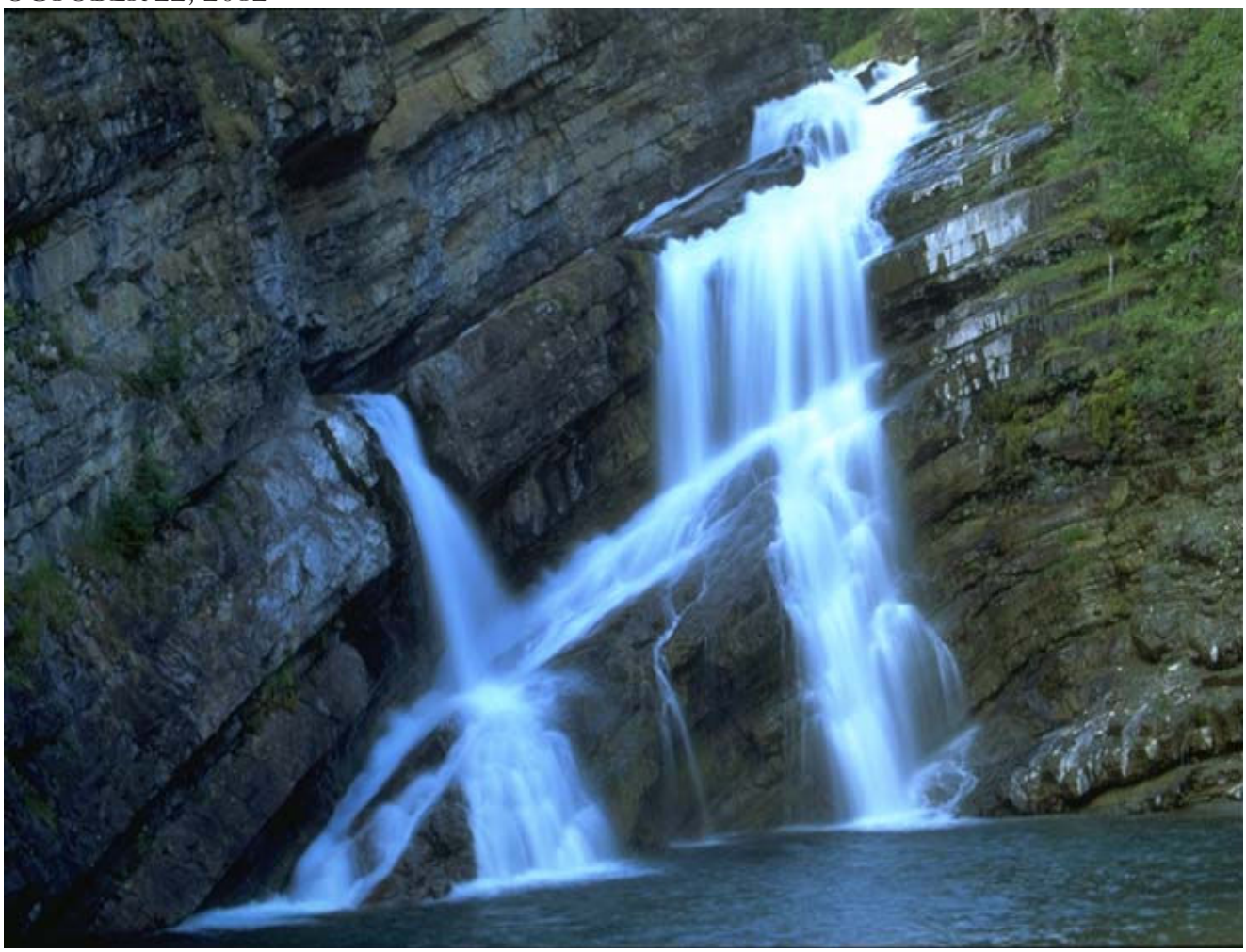
QUARTERLY MONITORING PROGRESS REPORT, 2ND QUARTER, 2012

MICHIGAN PLAZA
3801-3823 WEST MICHIGAN STREET
INDIANAPOLIS, INDIANA 46222
IDEM INCIDENT NO.: 0000198
IDEM VRP NO.: 6061202
MUNDELL PROJECT NO.: M01046
OCTOBER 22, 2012



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October 22, 2012

Mr. Corey Webb
Voluntary Remediation Program
Office of Land Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

Re: **Quarterly Monitoring Progress Report – 2nd Quarter 2012**
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana 46222
IDEM Incident # 0000198
IDEM VRP # 6061202
MUNDELL Project No. M01046

Dear Mr. Webb:

This *Quarterly Monitoring Progress Report* is being submitted to the Indiana Department of Environmental Management (IDEM) by Mundell & Associates, Inc. (MUNDELL), on behalf of AIMCO Michigan Meadows Holdings, LLC (AMMH), to summarize remediation activities and quarterly monitoring performed between April 1 and June 30, 2012. The following sections provide detailed discussions of the results of this work. All activities were completed on schedule. Of note, it is MUNDELL's understanding that the apartment complex known historically as Michigan Meadows Apartments has now been renamed "Maple Creek Village." For continuity purposes, this recent name change will not be utilized for this *current* report but will be incorporated in future reports.

1.0 SUMMARY OF MONITORING ACTIVITIES

1.1 Groundwater Monitoring Network Sampling

Between April 23 and May 1, 2012, quarterly (and annual) groundwater sampling of thirty-two (32) monitoring wells established with IDEM, nine (9) additional MUNDELL monitoring wells on the Floral Park Cemetery property, and eight (8) ENVIRON monitoring wells was completed. The following constitute this quarterly groundwater monitoring network:

A. *MUNDELL monitoring wells (41 total)*:

Michigan Plaza and Vicinity (15):

MMW-P-01, MMW-P-02, MMW-P-03S, MMW-P-03D, MMW-P-04, MMW-P-05, MMW-P-06, MMW-P-07, MMW-P-08, MMW-P-09S, MMW-P-09D, MMW-P-10S, MMW-P-10D, MMW-P-12S, and MMW-P-12D.

Michigan Apartments Complex (17):

MMW-1S, MMW-2S, MMW-3S, MMW-4D, MMW-5D, MMW-6D, MMW-7S, MMW-8S, MMW-9S, MMW-10S, MMW-11S, MMW-11D, MMW-12S, MMW-13D, MMW-14D, MW-15S, and MW-15D.

Floral Park Cemetery (9):

MMW-C-01, MMW-C-02S, MMW-C-02D, MMW-P-11S, MMW-P-11DR, MMW-P-13S, MMW-P-13D, MMW-P-14S, and MMW-P-14D.

B. *ENVIRON monitoring wells (8)*:

MW-167S, MW-167D, MW-168D, MW-169D, MW-170S, MW-170D, MW-171S and MW-171D.

MUNDELL also measured static groundwater elevations via an electric oil/water interface probe from the above-listed monitoring well network on April 23, 2012. Additional wells gauged during this sampling event consist of:

ENVIRON monitoring wells:

MW-166S, MW-166D, MW-168S, MW-169S, MW-174S, MW-174D, MW-175S, and MW-175D.

Little Eagle Creek Stream gauge Locations:

SG-1.

U.S. EPA wells:

MW-WES-01A, MW-WES-01B, MW-WES-01C, MW-WES-02A, MW-WES-02 B, MW-WES-02C, MW-WES-03A, MW-WES-03B, MW-WES-04A, MW-WES-04B, MW-WES-05A, MW-WES-05B, and MW-WES-05C.

Monitoring well gauging, survey and construction data are provided in **Table 1.** A site map depicting monitoring well locations is provided as **Figure 1**, and separate potentiometric surface maps for wells screened within the shallow portion and deeper portion of the upper sand and gravel aquifer are depicted on **Figure 2**, and **Figure 3,** respectively. It should be noted that groundwater elevations at shallow monitoring wells MW-169S and MW-WES-01A were

considered suspect for the gauging event and were not used to develop the shallow zone potentiometric surface.

The gauging result from MW-169S is considered inaccurate. The well is located within Cossell Road, a narrow two lane road passing to the south of the funeral home. To gauge the well requires the need to block a lane of traffic. After opening the well and waiting for it to equilibrate during this gauging event, traffic flow increased noticeably. Due to traffic safety concerns, the well gauging was expedited (*i.e.*, it was gauged only approximately 10 minutes after opening the well). The resultant water level appears to be about a tenth of a foot higher than what contour mapping based on nearby wells would infer for this location.

The gauging result from MW-WES-01A was considered suspect due to the abnormally shallow gauging depth (and resulting groundwater mound that it inferred). There is no known reason why a groundwater mound would be present at this location.

MUNDELL returned to the area on June 22, 2012 to re-gauge this well and a subset of nearby EPA wells to determine if a similarly high water level was present relative to other wells nearby that were gauged. During the June 22 visit, an additional period of equilibration time was given to allow the well to stabilize (approximately 45 minutes total). The resulting gauging depth (20.56 ft-below TOC) was more in line with the gauging depths of nearby wells. It appears that, for this well, additional equilibration time is necessary to allow well pressures to stabilize.

All monitoring wells were sampled utilizing both dedicated and portable bladder pumps for uniform low-flow purging and sample collection. The Troll 9500 multi-parameter meter (used inline with the bladder pumps) logs geochemical parameters (temperature, pH, dissolved oxygen, conductivity and oxidation-reduction potential), which help remove a minimal but sufficient amount of water (indicated by stabilization of geochemical parameters) to sample the well. The Troll helps assess the geochemical parameters to determine if conditions naturally conducive to natural attenuation exist in the aquifer. Excess purge water was transported to 55-gallon drums located at the Michigan Plaza property for subsequent proper off-site disposal. In accordance with IDEM guidelines, the contents in each drum were then identified with a label describing them as non-hazardous materials.

As agreed in the October 29th, 2008 meeting with IDEM and detailed in the *Remediation Work Plan Addendum* dated November 2008, groundwater samples were submitted to Pace Analytical Laboratories (Pace) in Indianapolis, Indiana, for the shorter list of Volatile Organic Compound (VOC) analysis utilizing United States Environmental Protection Agency (U.S. EPA) SW-846 Method 8260, along with appropriate duplicate (DUP), matrix spike (MS) and matrix spike duplicate (MSD) samples. Groundwater samples were transferred into three 40-milliliter glass sample vials containing the preservative hydrochloric acid (HCl). Groundwater sample vials were sealed in plastic bags and placed in a cooler containing ice and delivered to Pace using appropriate chain-of-custody protocol for laboratory tests. As will be discussed, the data indicate that anaerobic conditions which support the reductive dechlorination process currently exist in the aquifer.

Additional aquifer parameters, consisting of nitrate/nitrite (EPA 353.2), sulfate (ASTM D512-90,02), ferrous iron (field test - 1,10 Phenanthroline), total organic carbon (SM 5310C), methane (AM20GAX), ethane (AM20GAX) and ethane (AM20GAX) were analyzed to evaluate indicator compound breakdown and redox-sensitivity. In addition, volatile fatty acids (VFA) were tested to evaluate substrate distribution and lifetime duration of the product. These samples were collected in the previously selected indicator well locations representative of each plume to monitor the presence of residual CAP 18 ME™ in the aquifer and to provide additional monitoring of aquifer conditions. These identified locations consist of:

Source Area A: MMW-P-02, MMW-P-03S, MMW-P-03D, MMW-P-04, MMW-P-11S, MMW-P-11DR, and MMW-C-01;

Source Area B: MMW-P-01, MMW-P-05, MMW-P-06, MMW-P-07, MMW-P-08, MMW-P-10S, MMW-P-10D, MMW-8S, MMW-P-12S, MMW-P-12D; and

Source Area C: MMW-1S, MMW-9S and MMW-10S.

1.2 Indoor Air, Ambient Air and Soil Gas Monitoring

On April 4, 2012, indoor air samples (taken via Summa canisters) were collected at six tenant units at Michigan Plaza (Village Pantry (3801), Kids-X-Clusive (3807/3809), Former Tire Shop (3811), the AA Suite (3815), Arca de Salvacion (3819) and the Laundromat (3823)). Air mitigation systems were operational during indoor air sampling activities in the Village Pantry, Former Tire Shop, Arca de Salvacion and Laundromat. Four apartment spaces were also sampled during this event including Basement Apartment 101 and Second Floor Apartment No. 105 (Building No. 1); Basement Apartment. 602 (Building No. 6); and Basement Apartment. 1001 (Building No. 10). Air mitigation systems were operational during sampling activities in all apartment spaces.

Two ambient air samples (taken via Summa canisters) were collected as well, one north of Apartment Building No. 1 and one west of the Plaza, in the service alley adjacent to the Village Pantry.

Additionally, soil gas samples (taken via Summa canisters) were collected from the three soil gas monitoring wells MGW-01, MGW-02 and MGW-05.

1.3 Additional Soil Delineation and Monitoring Well Installation

Between June 4 and 6, 2012, MUNDELL oversaw the installation of monitoring wells MMW-C-16S, MMW-C-16D, and MMW-C-17D at two areas of Floral Park Cemetery. The scope of work was previously summarized in the *Response to IDEM's Request for Revised Remediation Work Plan Approval Review and Technical Response to General Notice of*

Potential Liability Review document dated March 16, 2012. A work plan was provided to IDEM prior to the initiation of activities. The purpose of the monitoring well installation was to further delineate PCE along the eastern edge of the Floral Park Cemetery (MMW-C-16S and MMW-C-16D) and vinyl chloride southeast of MMW-P-9D in the vicinity of historic soil boring GP-23 (MMW-C-17D). The wells will serve to allow enhanced monitoring of the continuing remediation activities at the Plaza.

1.3.1 Soil Boring Advancement

Drilling services were provided by ATC Associates Inc., located in Indianapolis, Indiana with oversight by MUNDELL. Following utility clearance, soil borings were advanced utilizing a Dietrich D-50 hollow stem auger drill rig. Soil samples were collected continuously from each deep boring and the samples were classified by a MUNDELL scientist. Borings were advanced until the basal till unit was encountered. A photo-ionization detector was used to screen soil samples for total photo-ionizable vapors (TPV). Soil samples either with elevated TPV readings and/or in soil immediately above the water table or basal till were retained for laboratory analysis.

Soil samples submitted for VOC analysis were collected utilizing U.S. EPA SW-846 collection method 5035. Soil cuttings were containerized in 55-gallon DOT drums, labeled properly and maintained at the Michigan Plaza site pending final disposal.

Selected soil samples were submitted to Pace for analysis of VOCs utilizing U.S. EPA SW-846 Test Method 8260, and for fraction of organic content (f_{oc}) analysis utilizing the Walkley-Black Method.

1.3.2 Monitoring Well Construction

Following completion of the soil borings, the annular spaces for the wells were augered out and well materials were installed. The deep wells were screened at the base of the aquifer zone, while the shallow well was set across the water table. The monitoring wells were constructed of two-inch diameter Schedule 40 PVC with either five (deep wells) or ten feet (shallow well) of 0.010-inch slotted screen. Each well annulus was filled with a sand pack to a depth of approximately two feet above the top of the screen. Bentonite grout was placed above the sand pack to a depth of four foot below ground surface (ft-bgs), followed by bentonite chips to one ft-bgs. Each well was then completed at the surface with a steel, flush-mounted cover set into concrete. The well screen for MMW-C-16S was set between 15.9 and 25.9 ft-bgs, while MMW-C-16D was set between 35 and 40 ft-bgs and MMW-C-17D was set between 33.7 and 38.7 ft-bgs. Following well completion, the wells were developed in order to remove sediment and enhance hydraulic communication between the well materials and the water-bearing unit.

The wells will be surveyed during the third quarter 2012 period.

2.0 MONITORING RESULTS

2.1 Groundwater Flow

During the preparation of the potentiometric surface maps for the Site, static water level data collected in the vicinity of Holt Road and Michigan Street - shallow zone ENVIRON monitoring well MW-174S, and deep zone ENVIRON well MW-174D and US EPA Well MW-WES-05c - indicated a localized groundwater depression relative to nearby static water level readings. In the absence of any known dewatering well in this area, if these data were to be considered valid, it would appear to require the presence of a localized groundwater trough.

In light of the potentially suspect readings from both ENVIRON wells, MUNDELL contacted ENVIRON personnel to request access to their MW-174 well set to complete an independent re-survey, in order to verify that the top of casing (TOC) elevations were accurate. In the absence of verification of survey data of the wells in question, MUNDELL offers two versions of each potentiometric surface map for review; one version that excludes the suspect data points (**Figure 2a** and **Figure 3a**), and one version that includes the data points (**Figure 2b** and **Figure 3b**).

A review of the potentiometric surface map for the wells screened within the shallow aquifer zone (**Figure 2a**) indicates groundwater flow between the apartment complex, Michigan Plaza, and the cemetery is generally directed to the south-southeast. With the suspect static water elevation from MW-174S included, however; an apparent groundwater trough is observed extending from the vicinity of ENVIRON monitoring well MW-174S south to approximately the northern property line of the Floral Park Cemetery funeral home area (**Figure 2b**). Flow is interpreted to resume a south-southeast direction as it passes under the funeral home building.

A review of the potentiometric surface map for the wells screened within the deeper aquifer zone (**Figure 3a**) indicates a similar groundwater flow direction between the apartment complex, Michigan Plaza, and the cemetery (directed to the south-southeast). With the suspect static water elevation from MW-174D and MW-WES-05c included however; there again is observed an apparent groundwater trough extending from the vicinity of ENVIRON monitoring well MW-174D and EPA well MW-WES-05c southeast to approximately the northern property line of the Floral Park Cemetery funeral home area (**Figure 3b**). Flow resumes a south-southeast direction as it passes under the funeral home building.

MUNDELL reviewed possible other causes to explain the groundwater elevation change, including:

a. Nearby sanitary sewers – however, all had invert elevations at least 11 ft above the groundwater level in the area, which means that the sewers could not act as a preferential drain pathway to dewater the aquifer and thereby locally lower the water table;
b. Storm sewers - however, the closest storm sewer is approximately 200 feet to the south, and none are located proximal to the wells in question;

c. Nearby pumping wells lowering the water table – based on a review of the Indiana Department of Natural Resources (IDNR) on-line map viewer, IDNR Water Well No. 180590 is depicted on the Michigan Apartments property near the MW-174 wells. It is listed as a well of unknown and estimated location on the DNR website. However, the water well record lists an address of 4239 West Cossell Rd, located about 1,000 ft west of the apartments. Based on that address, the presence of water wells that may be lowering the water table does not appear to be a factor;

d. Well casing elevation errors in ENVIRON and U.S. EPA wells – MUNDELL has requested access for re-surveying the ENVIRON wells and expects to be able to complete this during this quarter.

e. Stabilization of water levels requiring longer periods – MUNDELL reviewed the ENVIRON well construction diagrams for the wells in question and noted that MW-174S is partially screened across several feet of silt loam. The geologic conditions in this area may be impeding equilibration of the wells. MUNDELL will allow more time for the well to stabilize in future gauging events to determine if the water levels need more time to equilibrate; and

f. A geologic explanation – this possibility was explored in the MUNDELL March 16, 2012 *Additional Investigation Activities Summary Report* indicating the potential for a localized glacial till high forcing groundwater flow around the till.

MUNDELL will continue to evaluate the presence of this feature in the coming quarters. Regardless of whether or not the suspect data from wells MW-174D and US EPA Well MW-WES-05c are reflective of actual groundwater levels in this area, flow across **Source Areas A**, **B** and **C** in both the shallow and deep portions of the aquifer under both scenarios is directed to the south-southeast.

2.2 Groundwater Analytical Results

Pace laboratory certificates of analysis for the groundwater samples analyzed are presented in **Appendix A**. Groundwater analytical testing results for this quarter are summarized in **Table 3** and presented on **Figure 4** (shallower portion of aquifer) and **Figure 5** (deeper portion of aquifer), the cumulative historic groundwater results are included in **Table 4**, and the cumulative groundwater analytical data for enhanced anaerobic bioremediation are included in **Table 5.** The historical indicator compounds trends in groundwater are presented in **Figure 6.** A summary of exceedances within the shallow monitoring well network and deep monitoring well network follows.

2.2.1 Shallow Monitoring Well Network Summary

PCE

PCE concentrations were reported in excess of the associated IDEM RISC Industrial Default Closure Level (IDCL) in the following monitoring wells:

Michigan Apartments Complex: MMW-1S.

Floral Park Cemetery: MMW-P-11S.

PCE was reported in excess of the IDEM RISC Residential Default Closure Level (RDCL) in the following monitoring wells:

Michigan Apartments Complex: MMW-10S.

Michigan Plaza and Vicinity: MMW-P-01.

Floral Park Cemetery: MMW-C-01.

TCE

TCE concentrations were reported in excess of the associated IDEM RISC RDCL in the following monitoring wells:

Michigan Apartments Complex: MMW-1S, MMW-3S and MW-10S.

Michigan Plaza and Vicinity: MMW-P-01.

Cis-1,2 DCE

Cis-1,2 DCE concentrations were reported in excess of the IDEM RISC IDCL in the following monitoring wells:

Michigan Apartments Complex: MMW-9S.

Michigan Plaza and Vicinity: MMW-P-06.

Cis-1,2 DCE concentrations were reported in excess of the IDEM RISC RDCL in the following monitoring wells:

Michigan Apartments Complex: MMW-10S

Michigan Plaza and Vicinity: MMW-P-01 and MMW-P-12S

VC

VC concentrations were reported in excess of the IDEM RISC IDCL in the following monitoring wells:

Michigan Apartments Complex: MMW-1S, MMW-9S, and MMW-10S.

Michigan Plaza and Vicinity: MMW-P-01, MMW-P-02, MMW-P-03S, MMW-P-04, MMW-P-05, MMW-P-06, MMW-P-07, MMW-P-08, and MMW-P-12S

Floral Park Cemetery: MMW-C-01 and MMW-P-11S

2.2.2 Deep Monitoring Well Network Summary

PCE

PCE was not identified at concentrations in excess of the associated IDEM RISC IDCL or RDCL within deep wells across the study area.

TCE

TCE was not identified at concentrations in excess of the associated IDEM RISC IDCL or RDCL within deep wells across the study area.

Cis-1,2 DCE

Cis-1,2 DCE concentrations were reported in excess of the IDEM RISC RDCL in the following monitoring wells:

Michigan Apartments Complex: MMW-4D, MMW-5D, MMW-11D, MMW-13D, and MMW-14D.

Michigan Plaza and Vicinity: MMW-P-12D.

ENVIRON monitoring wells: MW-167D.

VC

VC concentrations were reported in excess of the IDEM RISC IDCL in the following monitoring wells:

Michigan Apartments Complex: MMW-4D, MMW-6D, MMW-13D, and MMW-14D.

Michigan Plaza and Vicinity: MMW-P-03D, MMW-P-09D, MMW-P-10D, and MMW-P-12D.

Floral Park Cemetery: MMW-C-02D, MMW-P-11DR, MMW-P-13D, and MMW-P-14D.

ENVIRON monitoring wells: MW-167D, MW-168D, MW169-D, MW-170D, and MW-171D.

The deep monitoring wells MMW-4D, MMW-5D, MMW-11D, MMW-13D and MMW-14D located at the Michigan Meadows Apartments Complex exhibited cis-1,2-DCE groundwater concentrations exceeding the RISC RDCL. These wells also either currently exhibit or have historically exhibited vinyl chloride exceedances above IDCLs this quarter**.** Since these wells have been purposefully located hydraulically upgradient of all three ***Chemical Source Areas***, the impacts observed in these wells demonstrate groundwater impacts that are attributable to other upgradient, off-site sources and not to Michigan Plaza.

The locations of all three ***Chemical Source Areas*** are presented on **Figure 1**. As seen on **Figure 5**, the indicator compound concentrations at deep, upgradient wells MMW-4D, MMW-5D,MMW-6D, MMW-11D, and MMW-13D can be considered as "background levels" defined as the concentration of contaminants from the Genuine source coming into the deeper aquifer in this area. These indicator compound levels aid in differentiating between the Michigan Plaza source impacts and the Genuine Site impacts, and will ultimately be used to evaluate the target cleanup levels for the deeper portion of the surficial aquifer at the Site.

2.3 In-Situ Bioremediation Progress

Based upon:

1) The extent and severity of the indicator compound concentrations and trends;
2) Site-specific operational constraints and uses;
3) Geochemical and physical characteristics of the aquifer; and
4) Economic factors;

in-situ bioremediation with CAP 18™ and CAP 18 ME™, followed by Monitored Natural Attenuation (MNA) has been the selected remediation technology for the Site for treating groundwater, as detailed in the *RWP*. The initial CAP 18™ injection was performed in each of the three source areas in August 2007 using a direct push Geoprobe system. Locations and spacing of the injection points were designed to address the sewer line related ***Chemical Source Areas*** and provide injection locations in each ***Chemical Source Area***. The anticipated downgradient migration of the initial CAP 18 ME™ was expected to remediate the most significant groundwater impacts. A booster CAP 18 ME™ injection was performed in February 2009 to aggressively treat some areas where the chemical concentrations began to stabilize or were decreasing at a slow rate. During this quarter, no additional CAP 18 ME™ injections have been performed. A *Revised Work Plan for Third Round of CAP 18 ME™ Injections* dated July 22, 2011, was approved by IDEM on August 22, 2011. Subsequent to the submittal of the report, however, data collected with the additional delineation in the area identified additional pockets of source material, therefore requiring the footprint of injection to be expanded. On May 2, 2012, MUNDELL submitted a revised injection plan that adds a few more injection locations. This injection event has now been delayed pending the final review and approval of results from the 2011 delineation and investigation activities in the area by the U.S. EPA and IDEM. After approval is received, MUNDELL will proceed with the third CAP 18 ME™ injection event at the Site. The cumulative groundwater analytical data for enhanced anaerobic bioremediation are included in **Table 5.** Groundwater analytical results are provided in **Appendix A**.

Indicator Chemical Trends in Chemical Source Areas

A group of monitoring wells from the sampling network is utilized to monitor dissolved indicator compound concentration trends over time at various locations within the heart of the three ***Chemical Source Areas***. Graphs of historical PCE, TCE, cis-1,2-DCE and vinyl chloride concentrations are presented in **Figure 6** for the following monitoring wells:

Source Area A: MMW-P-02, MMW-P-03S, MMW-P-03D, MMW-P-04, MMW-P-11S, MMW-P-11DR, and MMW-C-01;

Source Area B: MMW-P-01, MMW-P-05, MMW-P-06, MMW-P-07, MMW-P-08, MMW-P-10S, MMW-P-10D, MMW-8S; MMW-P-12S, and MMW-P-12D;

Source Area C: MMW-1S, MMW-9S, and MMW-10S.

Figures 6 and **7** illustrate the changes in the chlorinated solvent concentrations demonstrating reductive dechlorination as a result of the CAP 18 ME™ remediation implementation. To illustrate the effect of the CAP 18 ME™ injections on dissolved chlorinated concentrations, injection dates are included on the graphs.

Source Area A

PCE

PCE was not detected above the laboratory reporting limit in indicator wells MMW-P-02, MMW-P-03S, MW-P-03D and MMW-P-04 located near ***Source Area A***. One monitoring well (MMW-C-01) exhibited a PCE concentration exceeding the RDCL, but below the IDCL. The data associated with well cluster MMW-P-11S and MMW-P-11DR, which has been added as an indicator well set to ***Source Area A***, shows that PCE concentrations in exceedance of the RISC IDCL are present southwest of the strip mall property in the shallow zone. To the southeast of the source area, PCE concentrations have declined steadily since the initial August 2007 CAP 18™ injections and the following February 2009 CAP 18 ME™ injections. However, the PCE concentration at MMW-C-01 persists in excess of the RDCL.

TCE

TCE was not detected above the laboratory reporting limit in ***Source Area A*** indicator wells.

Cis-1,2-DCE

Cis-1,2-DCE concentrations increased in the shallow saturated zone immediately downgradient of ***Source Area A*** at MMW-P-11S and MMW-C-01, while concentrations decreased in MMW-P-02 and MMW-P-03S. It was not detected in MMW-P-04. It was not detected in the deep well MMW-P-03D but was detected at low levels at MMW-P-11DR.

VC

During the 2nd quarter 2012 sampling event, VC concentrations increased in ***Source Area A*** shallow indicator wells MMW-P-03S, MMW-P-03D, MMW-P-11S, MMW-P-11DR, and MMW-C-01, suggestive of continued dechlorination at this location. However, VC levels have decreased in MMW-P-02 and MMW-P-04.

Taken as a whole, generation of both cis-1,2-DCE and vinyl chloride as byproducts of PCE reductive de-chlorination appears to have slowed near ***Source Area A*** over the last several quarters.

Source Area B

PCE

PCE concentrations increased and remain at levels above the RISC RDCL in the vicinity of MMW-P-01, located immediately downgradient of sewer line source areas identified during soil investigation activities completed during 2005. PCE was not detected in any of the other wells in ***Source Area B***.

TCE

TCE was detected above the RDCL at MMW-P-01. TCE was not detected in any of the other wells in Source Area B.

Cis-1,2-DCE

Elevated cis-1,2-DCE levels in exceedance of the RISC IDCL are identified in MMW-P-06. Elevated cis-1,2-DCE levels in exceedance of the RISC RDCL are identified in MMW-P-01 and the MMW-P-12S/D well pair.

VC

Elevated VC levels in exceedance of the RISC IDCL are identified in each indicator well, with the exception of MMW-P-10S. Increasing trends are noted in MMW-P-08 and MMW-P-12D. Decreasing trends are noted in MMW-8S, MMW-P-06, MMW-P-07, and MMW-P-10D.

Indicator compound concentration trends in the vicinity of ***Source Area B*** indicate that in certain areas (*e.g.*, MMW-P-07) reductive dechlorination processes continue to consume PCE while generating daughter products in the saturated zone. However, there are some areas where stagnation appears to be occurring (*e.g.,* MMW-P-01).

Source Area C

PCE

PCE concentrations increased in indicator well MMW-1S and MMW-10S and remain above the IDCLs and RDCLs, respectively. Monitoring well locations near ***Source Area C*** continue to indicate downgradient migration of CAP 18 ME™ and slowing of previously inferred reductive dechlorination processes.

TCE

The TCE concentrations at MMW-1S and MMW-10S remained in exceedance of the RISC RDCL as both demonstrated increasing trends during the 2nd quarter, 2012 event.

Cis-1,2-DCE

Cis-1,2-DCE were reported at concentrations above the IDCL in MMW-9S and above the RDCL in MMW-10S, results that follow recent historic trends in the wells. It was detected above the laboratory reporting limit in MMW-1S, but remained below the RDCL as was observed during the 1st quarter 2012 sampling event.

VC

Rates of VC generation as byproducts of enhanced reductive dechlorination appear to have slowed in ***Source Area C***. VC concentrations at ***Source Area C*** indicator well locations MMW-9S and MMW-10S decreased but remain above the IDCLs. VC concentration in MMW-1S was observed in exceedance of IDCL after being undetected in the 1st quarter 2012 sampling event.

The remaining PCE and TCE concentrations observed near ***Source Area C***, and the decreasing rates of daughter product generation observed in the vicinity during 2011 and early 2012 indicate the need for a third CAP 18 ME™ injection event. This booster injection event has previously been approved by IDEM. A modified injection plan has been submitted under separate cover for IDEM review. It is anticipated that it could be completed during the 3rd quarter, 2012, or as soon as possible after IDEM approval.

In conclusion, because reductive dechlorination processes appear to have slowed over the last several quarters, as evidenced by slightly rebounding PCE and TCE concentrations and reduced generation of breakdown products (cis-1,2-DCE and vinyl chloride) in selected locations, additional CAP 18 ME™ injections in ***Source Areas A, B*** and ***C*** have previously been approved by IDEM. MUNDELL has recently submitted a revised injection plan that adds a few more injection locations. This injection event has now been delayed pending the final review and approval of results from the 2011 delineation and investigation activities in the area by the U.S. EPA and IDEM. After approval by IDEM, MUNDELL will proceed with the third CAP 18 ME™ injection event at the Site. The cumulative groundwater analytical data for enhanced anaerobic bioremediation are included in **Table 4.** Groundwater analytical results are attached in **Appendix A**.

2.4 Indoor Air and Soil Gas Well Sampling Results

Laboratory certificates of analysis for the air samples are presented in **Appendix A**. **Tables 2a, 2b, and 2c** present the air sampling results for Michigan Plaza, Michigan Apartments, and the soil gas monitoring wells.

2.4.1 Indoor Air - Michigan Plaza

Indoor air concentrations observed in the Village Pantry space (Unit 3801), Former Tire Shop (Unit 3811) Kids-X-Clusive (units 3807/3809), the AA Suite (Unit 3815), Arca de Salvacion (Unit 3819) and the Laundromat (Unit 3823) were below the IDEM 2010 Draft Vapor Intrusion Pilot Program Guidance as well as IDEM 2012 RCG commercial indoor air screening levels and are illustrated on **Figure 8**.

2.4.2 Indoor Air - Michigan Apartments

Indoor air concentrations observed in apartment buildings No. 1 (Apt 101 and Apt 105), No.6 (Apt 602) and No. 10 (Apt 1001) were below the IDEM 2010 Draft Vapor Intrusion Pilot Program Guidance as well as IDEM 2012 RCG residential indoor air screening levels and are illustrated on **Figure 8**. Please note that the sample ID for Basement Apt 602 was inadvertently referenced as Apt 601 on the laboratory sample and associated report.

These minimal PCE, cis-1,2-DCE and vinyl chloride indoor air concentrations, all below IDEM's 2010 (25-year or 30-year) and 2012 screening levels, continue to demonstrate that Site remedial activities continue to be successful in significantly reducing the indoor air impacts.

2.4.3 Soil Gas Wells

The apartment complex soil gas monitoring wells MGW-01 and MGW-02 showed minimal contaminant concentrations during the April 2012 sampling event. While PCE was detected in each soil gas well, in addition to cis-1,2-DCE in MGW-02, none of these concentrations were in excess of the U.S. EPA or IDEM soil gas screening levels.

Analytical results from Michigan Plaza soil gas monitoring well MGW-05 report elevated (but decreasing) PCE, TCE and cis-1,2-DCE concentrations, previously attributed to increased reductive de-chlorination resulting from the 2nd CAP 18 ME™ injection event in February 2009. This soil gas well shows impacts exceeding some of the U.S. EPA (for PCE, TCE and cis-1,2-DCE), IDEM 2010 (PCE) and IDEM 2012 (PCE, TCE) soil gas screening levels. Considering the worst case scenario (an exposure duration of 30 years) yields a conservative comparison to actual risks to human health, as this location has been a parking lot since the initial development of the land. Furthermore, the nearest inhabited indoor spaces are all currently being addressed with air mitigation systems. Therefore, exposures are being significantly reduced. MUNDELL anticipates these levels have been introduced from the previously existing

groundwater plume in ***Source Area B*** which is currently undergoing de-chlorination via the CAP 18 ME™ remediation. Analytical results are depicted on **Figure 9**.

Regarding methane concentrations at the Site, a request was made on April 1, 2011, by IDEM and the U.S. EPA that monitoring wells be screened with a combustible gas indicator (CGI) in upcoming groundwater sampling events. MUNDELL challenged this request using published theoretical relationships and Site-specific dissolved methane concentrations to demonstrate that methane concentrations in air due to the dissolved methane in groundwater at the Site would be approximately 2% of the published LEL (April 6, 2011). In an email response to this request IDEM and U.S. EPA "recommended opening the wells with caution and if methane levels continue to increase, we would again recommend screening the wells with a CGI" (April 7, 2011).

During the 2nd quarter, 2012, annual sampling event (as was previously completed in the 2nd quarter, 2011, annual sampling event), methane soil gas levels were collected from three soil gas monitoring well locations using summa canisters. The samples were analyzed for VOCs (including methane, ethylene and ethane) via U.S. EPA Method TO-15. All sampled gas monitoring wells (including MGW-05, located in the heart of the plume on the Michigan Plaza property) continue to be non-detect for methane, ethylene and ethane (*i.e.*, less than 10 ppm). This soil gas analytical data confirms that methane vapor concentrations are not an issue at the Site and that CGI monitoring during groundwater sampling events is indeed unnecessary.

Due to elevated vinyl chloride concentrations above the 1-year groundwater screening level, IDEM requested a vapor intrusion investigation for residential properties within 100 feet of the groundwater plume as soon as possible (*Request for Revised Remediation Work Plan Approval Review and Technical Response to General Notice of Potential Liability Review,* June 22, 2011). Subsequent to this request, MUNDELL has made several attempts to request property access to conduct vapor intrusion sampling at the residence located at 3817 West Michigan Street, as well as the two residences to the west of this property. To date, the property owners have not granted access to conduct sampling. MUNDELL will continue to periodically contact them for access.

2.5 Indoor Air Mitigation Systems Performance

Four sub-floor slab depressurization units were installed by *Air Quality Control (AQC)* under the oversight of MUNDELL in September 2006. Three additional sub-floor slab depressurization units were installed by AQC under the oversight of MUNDELL on March 19 and 26, 2008.

Unit/blowers were installed in the following spaces at Michigan Plaza: 1) the Village Pantry (B1); 2) the former Tire Shop space (B2); 3) the Arca de Salvacion (B3); and 4) the laundromat (Michigan Plaza Family Laundry) (B4). The systems installed at the Michigan Apartments are: Building No. 1, Basement Apartment 101 (B5); Building No. 6, Basement

Apartment 602 (B6); and Building No. 10, Basement Apartment 1001 (B7). The system locations are illustrated on **Figure 10**.

Since the time of installation, system stack air samples were collected weekly during October 2006, followed by bi-weekly sampling during November and December 2006, monthly throughout 4th quarter, 2006, and then on a quarterly basis thereafter. PID readings have also been concurrently measured in each of the stacks. The historical PCE concentration trends and cumulative pounds of PCE and total contaminants removed by each of the systems (B1 through B7) are summarized in **Figures 11** through **19.**

As of the end of the 2nd quarter of 2012, approximately 24.14 *pounds* of total chlorinated solvents, including *16.45 pounds* of PCE, have been removed at the *Michigan Apartments property* (sub slab depressurization systems B5, B6 and B7); and approximately *104.04 pounds* of total chlorinated solvents, including *95.21 pounds* of PCE, have been removed at the *Michigan Plaza property* (sub slab depressurization systems B1, B2, B3 and B4). The associated calculations are provided in **Appendix B.** A concentration of half the PQL (practical quantitation limit) is assumed for the indicator compounds demonstrating concentrations below the laboratory PQL, with the exception of vinyl chloride where an average concentration of 0.015 parts per million vapor (PPMV) (derived from the J flag values for vinyl chloride concentrations below PQL) is used for calculation purposes.

Overall, decreases in PCE concentrations have been noted in all mitigation systems going back to at least May 2009. PCE concentrations in mitigation systems B1, B3, and B4 have decreased by an order of magnitude since air monitoring was initiated for each respective system. Air mitigation systems B2, B5, and B6 have also shown generally declining PCE concentrations, with reduction of PCE concentrations by approximately 500 to 3000 ug/m^3 since air monitoring was initiated.

2.6 Soil Analytical Results

Well locations are depicted on **Figure 1**. Based on soil analytical results, adsorbed vinyl chloride in excess of the associated IDEM 2012 Remediation Closure Guide migration to groundwater screening levels is present at monitoring well MMW-C-16D. Laboratory certificates of analysis for the soil samples are presented in **Appendix A**. Soil analytical results are summarized in **Table 6**. Boring logs and monitoring well construction diagrams are provided in **Appendix D**. The new wells will be sampled for groundwater as part of third quarter 2012 activities.

We appreciate the opportunity to update IDEM on the progress of remedial activities and monitoring at the Site. If you have any questions, please do not hesitate to contact us at (317) 630-9060 or via email (jmundell@MundellAssociates.com; mbreting@mundellassociates.com).

Sincerely,
Mundell and Associates, Inc.

Matthew Bono
Staff Environmental Scientist

Mark E. Breting, L.P.G.
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Attachments: Tables
Figures
Appendices

cc: Mr. Peter Cappel, AMMH

TABLES

Table 1 Groundwater Level Measurements and Monitoring Well Construction Data

Table 2a Cumulative Air Sampling Analytical Results – TO-15 SIM Analysis – Michigan Plaza

Table 2b Cumulative Air Sampling Analytical Results – TO-15 SIM Analysis – Michigan Apartments

Table 2c Cumulative Air Sampling Analytical Results – TO-15 SIM Analysis – Michigan Apartments and Michigan Plaza Soil Gas Monitoring Wells

Table 3 Monitoring Well Groundwater Analytical Results – 2nd Quarter 2012

Table 4 Cumulative Monitoring Well Groundwater Analytical Results

Table 5 Cumulative Groundwater Analytical Data for Enhanced Anaerobic Bioremediation

Table 6 Soil Analytical Results – June 2012 Soil Borings (Floral Park Cemetery)

Table 1
Groundwater Level Measurements and Monitoring Well Construction Data
2nd Quarter 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Monitoring Well	Date of Water Level	Top of Casing Elevation (feet MSL)	Total Depth (feet)	Screened Interval (feet)			Depth To Water (feet)	Groundwater Elevation (feet MSL)
Monitoring Wells (Plaza)								
Shallow Wells								
MMW-P-01	4/23/2012	715.26	28	18.00	-	28.00	17.95	697.31
MMW-P-02	4/23/2012	716.09	30	20.00	-	30.00	19.92	696.17
MMW-P-03S	4/23/2012	715.95	28	18.00	-	28.00	19.83	696.12
MMW-P-04	4/23/2012	716.04	28	18.00	-	28.00	19.75	696.29
MMW-P-05	4/23/2012	715.55	28	18.00	-	28.00	19.29	696.26
MMW-P-06	4/23/2012	716.14	28	18.00	-	28.00	19.89	696.25
MMW-P-07	4/23/2012	714.90	28	18.00	-	28.00	18.17	696.73
MMW-P-08	4/23/2012	714.53	28	18.00	-	28.00	17.80	696.73
MMW-P-09S	4/23/2012	714.80	28	18.00	-	28.00	20.35	694.45
MMW-P-10S	4/23/2012	714.35	28	18.00	-	28.00	17.84	696.51
MMW-P-12S	4/23/2012	715.83	26	16.00	-	26.00	18.68	697.15
Deep Wells								
MMW-P-03D	4/23/2012	716.02	35	25.00	-	35.00	19.84	696.18
MMW-P-09D	4/23/2012	714.82	45	35.00	-	45.00	20.30	694.52
MMW-P-10D	4/23/2012	714.42	38	28.00	-	38.00	17.99	696.43
MMW-P-12D	4/23/2012	715.33	36.5	31.50	-	36.50	18.09	697.24
Monitoring Wells (Apartments)								
Shallow Wells								
MMW-1S	4/23/2012	712.92	20	10.00	-	20.00	16.00	696.92
MMW-2S	4/23/2012	712.95	20	10.00	-	20.00	15.69	697.26
MMW-3S	4/23/2012	710.20	30	18.00	-	28.00	12.78	697.42
MMW-7S	4/23/2012	712.09	26	12.00	-	22.00	14.31	697.78
MMW-8S	4/23/2012	714.24	24	14.00	-	24.00	17.01	697.23
MMW-9S	4/23/2012	713.71	25	15.00	-	25.00	17.13	696.58
MMW-10S	4/23/2012	712.69	25	15.00	-	25.00	16.17	696.52
MMW-11S	4/23/2012	713.17	24	14.00	-	24.00	16.15	697.02
MMW-12S	4/23/2012	712.15	24	14.00	-	24.00	15.31	696.84
MMW-15S	4/23/2012	713.36	32	22.00		32.00	16.02	697.34
Deep Wells								
MMW-4D	4/23/2012	711.29	66	56.00	-	66.00	13.80	697.49
MMW-5D	4/23/2012	711.27	51	36.00	-	41.00	13.63	697.64
MMW-6D	4/23/2012	712.40	51	39.00	-	49.00	14.70	697.70
MMW-11D	4/23/2012	713.33	33	23.00	-	33.00	16.00	697.33
MMW-13D	4/23/2012	713.28	50	35.00	-	50.00	15.97	697.31
MMW-14D	4/23/2012	712.41	50	40.00	-	50.00	15.11	697.30
MMW-15D	4/23/2012	713.08	39	34.00		39.00	15.74	697.34
Floral Park Cemetery Monitoring Wells (Off-Site)								
Shallow Wells								
MMW-C-01	4/23/2012	715.73	28	18.00	-	28.00	19.58	696.15
MMW-C-02S	4/23/2012	714.80	28	18.00	-	28.00	19.05	695.75
MMW-P-11S	4/23/2012	716.42	26	16.00	-	26.00	20.31	696.11
MMW-P-13S	4/23/2012	713.83	26	16.00	-	26.00	17.66	696.17
MMW-P-14S	4/23/2012	714.50	28	18.00		28.00	18.62	695.88
Deep Wells								
MMW-C-02D	4/23/2012	713.90	36	31.00		36.00	18.30	695.60
MMW-P-11DR	4/23/2012	715.63	33	28.00		33.00	19.51	696.12
MMW-P-13D	4/23/2012	713.57	33	28.00		33.00	17.43	696.14
MMW-P-14D	4/23/2012	714.76	34	29.00		34.00	18.92	695.84

Table 1
Groundwater Level Measurements and Monitoring Well Construction Data
2nd Quarter 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Monitoring Well	Date of Water Level	Top of Casing Elevation (feet MSL)	Total Depth (feet)	Screened Interval (feet)			Depth To Water (feet)	Groundwater Elevation (feet MSL)
ENVIRON Monitoring Wells (Off-Site)								
Shallow Wells								
MW-166S	4/23/2012	712.70	20	10.00		20.00	15.15	697.55
MW-167S	4/23/2012	716.07	22	12.00	-	22.00	18.21	697.86
MW-168S	4/23/2012	714.58	22	12.00	-	22.00	17.90	696.68
MW-169S	4/23/2012	715.92	25	15.00	-	25.00	20.28	695.64
MW-170S	4/23/2012	717.14	27	17.00	-	27.00	20.71	696.43
MW-171S	4/23/2012	711.58	22	12.00	-	22.00	15.75	695.83
MW-174S	4/23/2012	717.78	24	14.00		24.00	21.52	696.26
MW175S	4/23/2012	718.66	25	15.00		25.00	20.70	697.96
Deep Wells								
MW-166D	4/23/2012	712.49	51	46.00		51.00	14.92	697.57
MW-167D	4/23/2012	715.61	33	28.00	-	33.00	18.61	697.00
MW-168D	4/23/2012	714.46	31	26.00	-	31.00	17.85	696.61
MW-169D	4/23/2012	715.69	37	32.00	-	37.00	20.03	695.66
MW-170D	4/23/2012	717.07	39	34.00	-	39.00	20.68	696.39
MW-171D	4/23/2012	711.62	49	44.00	-	49.00	16.10	695.52
MW-174D	4/23/2012	717.72	48	43.00		48.00	21.41	696.31
MW-175D	4/23/2012	718.75	41	37.00		42.00	20.63	698.12
U.S. EPA Monitoring Wells (Off-Site)								
Shallow Wells								
MW-WES-01a	4/23/2012	716.30	37.5	32.5		37.5	6.35	709.95
MW-WES-02a	4/23/2012	716.60	29	24		29	19.44	697.16
MW-WES-03a	4/23/2012	717.68	35	30		35	21.94	695.74
MW-WES-04a	4/23/2012	718.14	35	30		35	20.75	697.39
MW-WES-05a	4/23/2012	717.19	25	20		25	19.27	697.92
Intermediate/Deep Wells								
MW-WES-01b	4/23/2012	716.31	46	41		46	19.88	696.43
MW-WES-01c	4/23/2012	716.28	55	50		55	19.85	696.43
MW-WES-02b	4/23/2012	716.60	40	35		40	19.87	696.73
MW-WES-02c	4/23/2012	716.69	50	45		50	19.79	696.90
MW-WES-03b	4/23/2012	717.70	45	40		45	21.91	695.79
MW-WES-04b	4/23/2012	718.14	45	40		45	20.78	697.36
MW-WES-05b	4/23/2012	716.97	37.5	32.5		37.5	19.82	697.15
MW-WES-05c	4/23/2012	716.49	50	45		50	20.22	696.27
Little Eagle Creek Stream Gauge Locations								
Location ID	**Date of Water Level**	**Top of Stream Gauge Elevation (Feet MSL)**					**Water Surface Gauge Elevation (Feet MSL)**	**Water Surface Elevation (Feet MSL)**
SG-1	4/23/2012	701.78					1.34	699.12
SG-2	NG	698.85					NG	NG

Notes:
1) All Top of Casing (TOC) data was obtained from or referenced to the Unified U.S. EPA Elevation Survey completed on October 13, 2011.
2) NG = Not Gauged

TABLE 2a

CUMULATIVE AIR SAMPLING ANALYTICAL RESULTS - TO-15 SIM ANALYSIS

Michigan Plaza
Indianapolis, Indiana
MUNDELL Project No. M01046

Sample ID	Sample Date	Tetrachloroethene (PCE)			Trichloroethene (TCE)			cis-1,2-Dichloroethene			Vinyl Chloride (VC)		
		ppb	ug/m^3	mg/m^3	ppb	ug/m^3	mg/m^3	ppb	ug/m^3	mg/m^3	ppb	ug/m^3	mg/m^3
2002 EPA[1]			**81**			**2**			**35**			**28**	
2010 IDEM - 25-year - Commercial [2]			**6.8**			**7.9**			**51**			**8.9**	
2012 IDEM RCG - Commercial [3]			**21**			**9**			**-**			**28**	
PLAZA 3801 (Village Pantry)	4/25/2003	38	**260**	0.2600	0.09	0.49	0.0005	ND	ND	ND	ND	ND	ND
	9/29/2005	26	**180**	0.1800	0.07	0.39	0.0004	0.09	0.36	0.0004	0.98	2.5	0.0025
	10/12/2006	0.98	6.7	0.0067	ND	ND	ND	0.06	0.24	0.0002	0.1	0.27	0.0003
	4/14/2008	0.15	1.0	0.0010	ND	ND	ND	ND	ND	ND	0.08	0.20	0.0002
	2/26/2009	0.84	5.7	0.0057	ND	ND	ND	ND	ND	ND	0.46	1.2	0.0012
	3/4/2010	0.12	0.8	0.0008	ND	ND	ND	ND	ND	ND	0.18	0.45	0.0005
	5/10/2011	0.54	3.7	0.0037	ND	ND	ND	ND	ND	ND	0.85	2.20	0.0022
	4/24/2012	0.16	1.1	0.0011	ND	<0.27	<0.00027	ND	<0.20	<0.00020	0.23	0.58	0.0006
PLAZA 3811 (Former Tire Shop)	3/4/2010	0.26	1.7	0.0017	ND	ND	ND	ND	ND	ND	0.01	0.19	0.0002
	4/25/2003	250	**1,700**	1.7000	0.43	**2.3**	0.0023	0.08	0.33	0.0003	ND	ND	ND
	5/10/2011	2	**13**	0.0130	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4/24/2012	1	4.1	0.0041	ND	<0.27	<0.00027	ND	<0.20	<0.00020	ND	<0.13	<0.00013
PLAZA 3807/3809 (Kids-X-Clusive)	4/25/2003	177	**1,200**	1.2000	0.43	**2.3**	0.0023	0.09	0.36	0.0004	ND	ND	ND
	3/17/2009	2	11	0.0110	ND	ND	ND	ND	ND	ND	1.1	2.9	0.00
	3/4/2010	0.11	0.8	0.0008	ND	ND	ND	ND	ND	ND	0.19	0.48	0.00
	5/10/2011	0.57	3.9	0.0039	ND	ND	ND	ND	ND	ND	0.53	1.30	0.00
	4/24/2012	0.31	2.1	0.0021	ND	<0.27	<0.00027	ND	<0.20	<0.0002	0.25	0.63	0.00063
PLAZA 3815 (AA Suite)	4/25/2003	200	**1,400**	1.4000	0.18	1.0	0.0010	0.03	0.18	0.0002	ND	ND	ND
	10/7/2004	18	**120**	0.1200	0.16	0.86	0.0009	0.17	0.67	0.0007	0.73	1.9	0.0019
	9/29/2005	42	**280**	0.2800	0.10	0.53	0.0005	0.36	1.4	0.0014	0.1	0.18	0.0002
	10/12/2006	3.6	**25**	0.0250	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4/14/2008	1.6	**11**	0.0110	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2/26/2009	1.8	**12**	0.0120	ND	ND	ND	ND	ND	ND	0.05	0.13	0.0001
	3/17/2009	1.0	**7.0**	0.0070	ND	ND	ND	ND	ND	ND	0.16	0.4	0.0004
	3/4/2010	0.24	1.7	0.0017	ND	ND	ND	0.19	0.75	0.0008	0.11	0.29	0.0003
	5/10/2011	0.36	2.5	0.0025	ND	ND	ND	ND	ND	ND	0.15	0.38	0.0004
	4/24/2012	0.28	1.9	0.0019	0.052	0.28	0.00028	0.12	0.46	0.00046	0.061	0.16	0.00016

TABLE 2a

CUMULATIVE AIR SAMPLING ANALYTICAL RESULTS - TO-15 SIM ANALYSIS

Michigan Plaza
Indianapolis, Indiana
MUNDELL Project No. M01046

Sample ID	Sample Date	Tetrachloroethene (PCE)			Trichloroethene (TCE)			cis-1,2-Dichloroethene			Vinyl Chloride (VC)		
		ppb	ug/m^3	mg/m^3	ppb	ug/m^3	mg/m^3	ppb	ug/m^3	mg/m^3	ppb	ug/m^3	mg/m^3
2002 EPA[1]			**81**			**2**			**35**			**28**	
2010 IDEM - 25-year - Commercial [2]			**6.8**			**7.9**			**51**			**8.9**	
2012 IDEM RCG - Commercial [3]			**21**			**9**			**-**			**28**	
PLAZA 3819 (Arca de Salvacion)	10/7/2004	26	**180**	0.1800	0.16	0.86	0.0009	0.17	0.67	0.0007	2.6	6.6	0.0066
	9/29/2005	75	**510**	0.5100	0.08	0.45	0.0005	0.19	0.75	0.0008	1.6	4.1	0.0041
	10/12/2006	2.2	**15**	0.0150	ND	ND	ND	0.06	0.22	0.0002	0.2	0.51	0.0005
	4/14/2008	1.3	**8.8**	0.0088	ND	ND	ND	ND	ND	ND	0.14	0.35	0.0004
	2/26/2009	0.41	2.8	0.0028	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/4/2010	0.24	1.6	0.0016	ND	ND	ND	ND	ND	ND	0.07	0.17	0.0002
	5/10/2011	0.49	3.3	0.0033	ND	ND	ND	0.06	0.22	0.0002	0.25	0.63	0.0006
	4/24/2012	0.20	1.3	0.0013	ND	<0.27	<0.00027	ND	<0.20	<0.0002	0.071	0.18	0.00018
PLAZA 3819 (Arca de Salvacion) (below slab)	10/7/2004	1.7	12	0.0120	1.7	**9.1**	0.0091	0.96	3.8	0.0038	0.04	0.09	0.0001
PLAZA 3823 (Laundromat)	10/12/2006	0.32	2.2	0.0022	ND	ND	ND	ND	ND	ND	0.05	0.14	0.0001
	4/14/2008	0.35	2.3	0.0023	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2/26/2009	0.13	0.9	0.0009	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/4/2010	0.11	0.7	0.0007	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/10/2011	0.27	1.8	0.0018	ND	ND	ND	ND	ND	ND	0.08	0.21	0.0002
	4/24/2012	0.063	0.43	0.00043	ND	<0.27	<0.00027	ND	<0.20	<0.00020	ND	<0.13	<0.00013
Ambient Air -West of Village Pantry on Fence	10/12/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4/14/2008	0.13	0.9	0.0009	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2/26/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.46	1.2	0.0012
	3/4/2010	0.06	0.4	0.0004	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/10/2011	0.13	0.9	0.0009	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4/24/2012	0.066	0.44	0.00044	ND	<0.27	<0.00027	ND	<0.20	<0.00020	ND	<0.13	<0.00013

Note: Results shown in bold **RED** exceed the draft U.S. EPA indoor air guidance; results with bold **BLACK** and light blue shading exceed 2010 IDEM Draft Vapor Intrusion Pilot Program Guidance commercial 25-year screening levels; results with **green outline** exceed 2012 IDEM Remediation Closure Guide commercial screening levels.
1 = EPA Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils, November 2002.
2 = February 4, 2010 IDEM Draft Vapor Intrusion Pilot Program Guidance Supplement.
3 = IDEM Remediation Closure Guide, March 22, 2012, Table A-6.

TABLE 2b

CUMULATIVE AIR SAMPLING ANALYTICAL RESULTS - TO-15 SIM ANALYSIS

Michigan Apartments

Indianapolis, Indiana

MUNDELL Project No. M01046

Sample ID	Sample Date	Tetrachloroethene (PCE)			Trichloroethene (TCE)			cis-1,2-Dichloroethene (cis-1,2-			Vinyl Chloride (VC)		
		ppb v/v	ug/m^3	mg/m^3	ppb v/v	ug/m^3	mg/m^3	ppb v/v	ug/m^3	mg/m^3	ppb v/v	ug/m^3	mg/m^3
2002 EPA[1]			**81**			**2**			**35**			**28**	
2010 IDEM - 30-year - Residential [2]			**3.2**			**1.2**			**37**			**2.2**	
2012 IDEM RCG - Residential [3]			4.1			2.1			-			1.6	
Building 1 (basement-laundry room)	4/23/2003	28	**190**	0.1900	0.38	**2.0**	0.0020	0.05	0.22	0.0002	ND	ND	ND
Building 1, Basement Apt 101	10/7/2004	6.8	**46**	0.0460	0.21	1.1	0.0011	0.17	0.67	0.0007	0.05	0.13	0.0001
	4/14/2008	0.11	0.74	0.0007	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2/26/2009	0.23	1.6	0.0016	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/4/2010	0.20	1.4	0.0014	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/10/2011	0.37	2.5	0.0025	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4/24/2012	0.15	1.0	0.0010	ND	<0.27	<0.00027	ND	<0.20	<0.0002	ND	<0.13	<0.00013
Building 1, Apt 104 (second floor)	10/7/2004	0.96	6.5	0.0065	0.08	0.41	0.00041	0.39	1.5	0.0015	0.10	0.25	0.0003
Building 1, Apt. 105 (second floor)	5/10/2011	0.09	0.61	0.0006	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4/24/2012	0.21	1.4	0.0014	0.068	0.36	0.00036	ND	<0.20	<0.00020	ND	<0.13	<0.00013
Building 1, Apt 108 (Daughter's Room)	2/26/2009	3.9	27	0.0270	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/4/2010	2.4	16	0.0160	ND	ND	ND	ND	ND	ND	ND	ND	ND
Building 1, Apt 109 (third floor)	10/7/2004	5.8	**39**	0.0390	0.16	0.86	0.0009	0.13	0.52	0.0005	0.06	0.16	0.0002
	4/14/2008	1.80	12	0.0120	ND	ND	ND	ND	ND	ND	ND	ND	ND
Building 6, basement	4/24/2003	0.95	6.4	0.0064	0.05	0.26	0.0003	0.04	0.95	0.0010	ND	ND	ND
Building 6, Basement Apt 602	4/14/2008	0.26	1.8	0.0018	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2/26/2009	0.45	3.1	0.0031	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/4/2010	5.40	**36**	0.0360	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/10/2011	0.10	0.7	0.0007	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4/24/2012	0.072	0.49	0.00049	0.069	0.37	0.00037	0.083	0.33	0.00033	0.053	0.13	0.00013
Building 20 Apt 2002	10/7/2004	0.06	0.37	0.0004	0.08	0.42	0.0004	0.17	0.67	0.0007	0.05	0.12	0.0001
Building 20 Apt 2006	10/7/2004	0.095	0.64	0.0006	0.11	0.59	0.0006	0.22	0.87	0.0009	0.07	0.17	0.0002
Building 20 Apt 2008	10/7/2004	0.36	2.4	0.0024	0.40	**2.1**	0.0021	0.23	0.91	0.0009	0.07	0.17	0.0002
Building 10, Basement Apt 1001	4/14/2008	0.26	0.25	0.0003	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2/26/2009	0.99	6.7	0.0067	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/4/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/10/2011	0.11	0.75	0.0008	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4/24/2012	0.076	0.51	0.00051	ND	<0.27	<0.00027	0.064	0.25	0.0003	ND	<0.13	<0.00013
Ambient Air NW Meadows MAA-1	10/7/2004	0.29	2.0	0.0020	0.30	1.6	0.0016	0.33	1.3	0.0013	0.06	0.15	0.0002
Ambient Air NE Meadows MAA-2	10/7/2004	0.21	1.4	0.0014	0.19	1.0	0.0010	0.18	0.71	0.0007	0.05	0.12	0.0001
Ambient Air SE Meadows MAA-3	10/7/2004	0.3	2.0	0.0020	0.15	0.81	0.0008	0.16	0.63	0.0006	0.05	0.14	0.0001
Ambient Air - Bldg 1	4/14/2008	0.08	0.54	0.0005	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2/26/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	3/4/2010	0.06	0.39	0.0004	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/10/2011	ND	ND	ND	0.06	0.31	0.0003	ND	ND	ND	ND	ND	ND
	4/24/2012	ND	<0.34	<0.00034	ND	<0.27	<0.00027	ND	<0.20	<0.0002	ND	<0.13	<0.00013

Note: Results shown in bold **RED** exceed the draft U.S. EPA indoor air guidance; results with bold **BLACK** and light blue shading exceed 2010 IDEM Draft Vapor Intrusion Pilot Program Guidance residential 30-year screening levels; results with **green outline** exceed 2012 IDEM Remediation Closure Guide residential screening levels.

1 = EPA Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils, November 2002

2 = February 4, 2010 IDEM Draft Vapor Intrusion Pilot Program Guidance Supplement.

3 = IDEM Remediation Closure Guide, March 22, 2012, Table A-6.

TABLE 2c

CUMULATIVE AIR SAMPLING ANALYTICAL RESULTS - TO-15 SIM ANALYSIS

Michigan Apartments and Michigan Plaza Soil Gas Monitoring Wells

Indianapolis, Indiana

MUNDELL Project No. M01046

Sample ID	Sample Date	Tetrachloroethene (PCE)			Trichloroethene (TCE)			cis-1,2-Dichloroethene (cis-			Vinyl Chloride (VC)		
		ppb	ug/m^3	mg/m^3	ppb	ug/m^3	mg/m^3	ppb	ug/m^3	mg/m^3	ppb	ug/m^3	mg/m^3
2002 EPA[1]			**8,100**			**220**			**3,500**			**280**	
2010 IDEM - Commercial [2]			**5,100**			**20,000**			-			**15,000**	
2010 IDEM - Residential [2]			**3,600**			**2,000**			-			**3,500**	
2012 IDEM RCG - Commercial [3]			21			8.8			-			28	
2012 IDEM RCG - Residential [3]			4.1			2.1			-			1.6	
MGW-1	10/7/2004	0.26	1.8	0.0018	0.079	0.42	0.0004	ND	ND	ND	0.2	0.51	0.0005
	4/15/2008	0.08	0.55	0.0006	0.06	0.29	0.0003	ND	ND	ND	ND	ND	ND
	2/26/2009	4.8	32	0.032	1.3	6.8	0.0068	0.2	0.8	0.0008	ND	ND	ND
	3/4/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/10/2011	0.4	3	0.003	ND	ND	ND	0.2	0.8	0.0008	0.36	0.91	0.00091
	4/24/2012	0.094	0.64	0.00064	ND	<0.27	<0.00027	ND	<0.20	<0.00020	ND	<0.13	<0.00013
MGW-2	3/4/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/10/2011	0.15	1	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4/24/2012	0.098	0.66	0.00066	ND	<0.27	<0.00027	0.09	0.36	0.00036	ND	<0.13	<0.00013
MGW-3	10/7/2004	0.31	2.1	0	0.068	0.37	0.0004	ND	ND	ND	ND	ND	ND
	4/15/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2/26/2009	40	270	0.27	7.4	40	0.04	1.1	4.4	0.0044	0.29	0.73	0.0007
MGW-4	3/4/2010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MGW-5	4/25/2003	18	120	0.12	297	**1,600**	1.6	479	1,900	1.9	0.43	1.10	0.0011
	10/7/2004	200	1,400	1.4	730	**3,900**	3.9	730	2,900	2.9	0.60	1.50	0.0015
	4/15/2008	680	4,600	4.6	660	**3,600**	3.6	230	910	0.91	ND	ND	ND
	2/26/2009	2,100	**14,000**	14	1,100	**5,800**	5.8	330	1,300	1.3	790	**2,000**	2.0
	3/4/2010	3,800	**26,000**	26	1,500	**8,100**	8.1	2,900	**12,000**	12	240	**610**	0.61
	7/23/2010	8,100	**55,000**	55	5,000	**27,000**	27	12,000	**49,000**	49	200	**500**	0.5
	5/10/2011	3,200	**22,000**	22	1,000	**5,500**	6	5,200	**21,000**	21	4	11	0.0
	4/24/2012	2,600	**18,000**	18	970	**5,200**	5.2	2,900	**11,000**	11	2.2	5.6	0.0056

Notes: The analytical results from the Gas Well (MGW) samples are not indicative of 'breathing zone' air quality, and comparison to published regulatory standards established for the breathing zone are included here for informational purposes only.

Results shown in bold **RED** exceed the draft U.S. EPA indoor air guidance; results with bold **BLACK** and light blue shading exceed 2010 IDEM Draft Vapor Intrusion Pilot Program Guidance residential (or commerical for MGW-05) screening levels; results with **green outline** exceed 2012 IDEM Remediation Closure Guide residential (or commercial for MGW-05) screening levels.

1 = EPA Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils, November 2002.
2 = February 4, 2010 IDEM Draft Vapor Intrusion Pilot Program Guidance Supplement.
3 = IDEM Remediation Closure Guide, March 22, 2012, Section 10.4 (deep soil gas - exterior; 0.01 attenuation factor) and Table A-6.

Table 3

Monitoring Well Groundwater Analytical Results
2nd Quarter 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM 2009 RISC Default Industrial Cleanup Level		**55**	**31**	**1,000**	**2,000**	**1,000**	**4**
IDEM 2009 RISC Default Residential Cleanup Level; IDEM 2012 RCG Tap - Residential		**5**	**5**	**70**	**100**	**80**	**2**
Monitoring Wells (Apts)							
Shallow Wells							
MMW-1S	4/25/2012	**270**	**11.2**	34.2	<5.0	<5.0	**39.0**
MMW-2S	4/23/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-3S	4/23/2012	<5.0	**9.9**	5.8	<5.0	<5.0	<2.0
MMW-7S	4/26/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-8S	4/25/2012	<5.0	<5.0	15.6	<5.0	<5.0	**90.6**
MMW-9S	4/25/2012	<5.0	<5.0	**1,180**	30.1	<5.0	**753**
MMW-10S	4/24/2012	**54.0**	**23.8**	**194**	6.1	<5.0	**196**
MMW-11S	4/24/2012	<5.0	<5.0	42.5	5.1	<5.0	<2.0
MMW-12S	4/23/2012	<5.0	<5.0	45.2	<5.0	<5.0	**2.6**
MMW-15S	4/26/2012	<5.0	<5.0	11.2	<5.0	<5.0	<2.0
Deep Wells							
MMW-4D	4/23/2012	<5.0	<5.0	**338**	<5.0	<5.0	**176**
MMW-5D	4/23/2012	<5.0	<5.0	**228**	<5.0	<5.0	**126**
MMW-6D	4/23/2012	<5.0	<5.0	<5.0	<5.0	<5.0	**38.5**
MMW-11D	4/24/2012	<5.0	<5.0	**186**	13.0	<5.0	<2.0
MMW-13D	4/24/2012	<5.0	<5.0	**422**	<5.0	<5.0	**46.7**
MMW-14D	4/23/2012	<5.0	<5.0	**996**	11.0	<5.0	**79.6**
MMW-15D	4/26/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0

Table 3
Monitoring Well Groundwater Analytical Results
2nd Quarter 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM 2009 RISC Default Industrial Cleanup Level		**55**	**31**	**1,000**	**2,000**	**1,000**	**4**
IDEM 2009 RISC Default Residential Cleanup Level; IDEM 2012 RCG Tap - Residential		**5**	**5**	**70**	**100**	**80**	**2**
Monitoring Wells (Plaza)							
Shallow Wells							
MMW-P-01	4/25/2012	**21.8**	**11.0**	**459**	8.1	<5.0	**1,720**
MMW-P-02	4/25/2012	<5.0	<5.0	53.4	<5.0	<5.0	**274**
MMW-P-03S	4/25/2012	<5.0	<5.0	18.4	<5.0	<5.0	**257**
MMW-P-04	5/1/2012	<5.0	<5.0	<5.0	<5.0	<5.0	**5.7**
MMW-P-05	4/25/2012	<5.0	<5.0	<5.0	<5.0	<5.0	**80.9**
MMW-P-06	4/26/2012	<5.0	<5.0	**3,220**	29.2	<5.0	**7,090**
MMW-P-07	4/25/2012	<5.0	<5.0	11.6	<5.0	<5.0	**266**
MMW-P-08	4/25/2012	<5.0	<5.0	5.0	<5.0	<5.0	**85.2**
MMW-P-09S	4/24/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-P-10S	4/25/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-P-12S	5/1/2012	<5.0	<5.0	**454**	12.4	<5.0	**50.9**
Deep Wells							
MMW-P-03D	4/25/2012	<5.0	<5.0	<5.0	<5.0	<5.0	**16.6**
MMW-P-09D	4/24/2012	<5.0	<5.0	<5.0	<5.0	<5.0	**56.6**
MMW-P-10D	4/25/2012	<5.0	<5.0	<5.0	<5.0	<5.0	**289**
MMW-P-12D	5/1/2012	<5.0	<5.0	**591**	15.2	<5.0	**69.4**

Table 3
Monitoring Well Groundwater Analytical Results
2nd Quarter 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM 2009 RISC Default Industrial Cleanup Level		**55**	**31**	**1,000**	**2,000**	**1,000**	**4**
IDEM 2009 RISC Default Residential Cleanup Level; IDEM 2012 RCG Tap - Residential		**5**	**5**	**70**	**100**	**80**	**2**
Floral Park Monitoring Wells (Off-site)							
Shallow Wells							
MMW-C-01	4/24/2012	**11.9**	<5.0	10.6	<5.0	<5.0	**45.3**
MMW-C-02S	4/24/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-P-11S	5/1/5012	**351**	<5.0	9.1	<5.0	<5.0	**8.5**
MMW-P-13S	4/26/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-P-14S	4/26/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
Deep Wells							
MMW-C-02D	4/26/2012	<5.0	<5.0	<5.0	<5.0	<5.0	**55.1**
MMW-P-11DR	5/1/2012	<5.0	<5.0	8.5	<5.0	<5.0	**102**
MMW-P-13D	4/26/2012	<5.0	<5.0	<5.0	<5.0	<5.0	**132**
MMW-P-14D	4/26/2012	<5.0	<5.0	<5.0	<5.0	<5.0	**49.5**

Table 3

Monitoring Well Groundwater Analytical Results
2nd Quarter 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM 2009 RISC Default Industrial Cleanup Level		**55**	**31**	**1,000**	**2,000**	**1,000**	**4**
IDEM 2009 RISC Default Residential Cleanup Level; IDEM 2012 RCG Tap - Residential		**5**	**5**	**70**	**100**	**80**	**2**
ENVIRON Monitoring Wells (Off-Site)							
Shallow Wells							
MW-167S	5/2/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MW-168S	-	NS	NS	NS	NS	NS	NS
MW-169S	-	NS	NS	NS	NS	NS	NS
MW-170S	5/2/2012	<5.0	<5.0	6.0	<5.0	<5.0	<2.0
MW-171S	5/2/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
Deep Wells							
MW-167D	5/2/2012	<5.0	<5.0	**377**	16.9	<5.0	**21.7**
MW-168D	5/2/2012	<5.0	<5.0	<5.0	<5.0	<5.0	**130**
MW-169D	5/2/2012	<5.0	<5.0	<5.0	<5.0	<5.0	**27.1**
MW-170D	5/2/2012	<5.0	<5.0	<5.0	<5.0	<5.0	**91.0**
MW-171D	5/2/2012	<5.0	<5.0	<5.0	<5.0	<5.0	**9.5**

Notes:

Exceedances of IDEM May 2009 RISC Industrial Default Cleanup Level in**RED.**
Exceedances of IDEM May 2009 RISC Residential Default Cleanup Level in**BLUE.**
IDEM 2012 Remediation Closure Guide (RCG) March 22, 2012; Groundwater - Tap - Residential (Table A-6).
PCE = Tetrachloroethene; TCE = Trichloroethene; cis-1,2-DCE = cis-1,2-Dichloroethene; trans-1,2-DCE = trans-1,2-Dichloroethene
NS = Not Sampled
NA = Not Analyzed
All analytical results presented in micrograms per liter (ug/L).

Table 4
Monitoring Well Groundwater Analytical Results
2nd Quarter 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM 2009 RISC Default Industrial Cleanup Level		55	31	1,000	2,000	1,000	4
IDEM 2009 RISC Default Residential Cleanup Level; IDEM 2012 RCG Tap - Residential		5	5	70	100	80	2
Monitoring Wells (Apts)							
Shallow Wells							
MMW-1S	9/10/2004	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	4.1
	3/15/2005	150	10.0	< 5.0	< 5.0	< 5.0	< 2.0
	11/9/2005	130	8.3	<5.0	<5.0	<5.0	8.9
	9/5/2006	200	13.0	<5.0	<5.0	<5.0	4.6
	2/22/2007	220	14.9	<5.0	<5.0	<5.0	<2.0
	6/14/2007	240	<5.0	<5.0	<5.0	<5.0	<2.0
	9/19/2007	362	10.5	<5.0	<5.0	31.6	<2.0
	12/13/2007	330	8.1	<5.0	<5.0	27.0	<2.0
	3/21/2008	280	14.0	<5.0	<5.0	<5.0	<2.0
	6/6/2008	277	13.2	<5.0	<5.0	<5.0	<2.0
	9/11/2008	288	14.7	<5.0	<5.0	<5.0	<2.0
	11/20/2008	223	45.5	169	<5.0	<5.0	14.5
	3/16/2009	199	11.3	<5.0	<5.0	<5.0	<2.0
	6/16/2009	237	13.4	<5.0	<5.0	<5.0	<2.0
	8/5/2009	195	22.9	71.3	<5.0	<5.0	9.3
	11/2/2009	189	39.0	119	<5.0	<5.0	26.6
	2/3/2010	160	49.7	59.1	<5.0	<5.0	35.4
	4/22/2010	206	14.7	<5.0	<5.0	<5.0	<2.0
	7/21/2010	310	21.8	<5.0	<5.0	<5.0	<2.0
	10/12/2010	89.4	21.3	208	<5.0	<5.0	32.2
	1/19/2011	217	46.2	35.4	<5.0	<5.0	21.8
	5/4/2011	449	22.7	12.1	<5.0	<5.0	<2.0
	7/28/2011	334	20.3	8.1	<5.0	<5.0	2.1
	10/19/2011	136	66.0	75.3	<5.0	<5.0	14.3
	2/14/2012	219	9.7	<5.0	<5.0	<5.0	<2.0
	4/25/2012	270	11.2	34.2	<5.0	<5.0	39.0
MMW-2S	9/10/2004	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	11/9/2005	<5.0	<5.0	<5.0	<5.0	<5.0	5.2
	9/5/2006	<5.0	<5.0	<5.0	<5.0	<5.0	5.2
	2/22/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/2/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/15/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/22/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/30/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/23/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-3S	8/26/2004	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	9/10/2004	<5.0	5.2	<5.0	<5.0	<5.0	<2.0
	11/9/2005	<5.0	28.0	5.4	<5.0	<5.0	<2.0
	9/5/2006	<5.0	23.0	7.4	<5.0	<5.0	<2.0
	2/22/2007	<5.0	20.6	8.5	<5.0	<5.0	<2.0
	6/2/2008	<5.0	20.2	7.9	<5.0	<5.0	2.8
	6/15/2009	<5.0	15.3	11.7	<5.0	<5.0	3.0
	4/20/2010	<5.0	15.9	8.0	<5.0	<5.0	<2.0
	5/4/2011	<5.0	12.4	12.4	<5.0	<5.0	4.4
	4/23/2012	<5.0	9.9	5.8	<5.0	<5.0	<2.0
MMW-7S	8/24/2004	<5.0	<5.0	28.0	<5.0	<5.0	<2.0
	9/10/2004	<5.0	<5.0	8.5	<5.0	<5.0	<2.0
	11/9/2005	<5.0	<5.0	9.5	<5.0	<5.0	<2.0
	9/5/2006	<5.0	<5.0	5.8	<5.0	<5.0	4.5
	2/21/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/2/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/15/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/20/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	5/4/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/26/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0

Table 4
Monitoring Well Groundwater Analytical Results
2nd Quarter 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM 2009 RISC Default Industrial Cleanup Level		55	31	1,000	2,000	1,000	4
IDEM 2009 RISC Default Residential Cleanup Level; IDEM 2012 RCG Tap - Residential		5	5	70	100	80	2
MMW-8S	2/22/2007	114	<5.0	289	13.8	<5.0	40.6
	6/14/2007	15.9	<5.0	364	9.5	<5.0	82.1
	9/19/2007	<5.0	<5.0	778	24.6	<5.0	145
	12/13/2007	7.7	<5.0	1,000	7.4	<5.0	586
	3/20/2008	<5.0	<5.0	470	<5.0	<5.0	330
	6/6/2008	<5.0	<5.0	336	<5.0	<5.0	509
	9/10/2008	<5.0	<5.0	275	<5.0	<5.0	322
	11/20/2008	<5.0	<5.0	123	<5.0	<5.0	584
	3/16/2009	<5.0	<5.0	95.0	<5.0	<5.0	348
	6/16/2009	<5.0	<5.0	94.3	6.1	<5.0	280
	8/5/2009	<5.0	<5.0	83.8	<5.0	<5.0	261
	11/2/2009	<5.0	<5.0	58.3	<5.0	<5.0	277
	2/3/2010	7.9	<5.0	15.3	<5.0	<5.0	236
	4/22/2010	<5.0	<5.0	9.0	<5.0	<5.0	151
	7/21/2010	6.2	<5.0	14.9	<5.0	5.0	230
	10/12/2010	8.4	<5.0	5.4	<5.0	<5.0	158
	1/19/2011	14.1	<5.0	<5.0	<5.0	<5.0	172
	4/30/2011	677	19.5	37.2	<5.0	<5.0	108
	7/28/2011	19.4	<5.0	29.0	<5.0	<5.0	130
	10/24/2011	7.9	<5.0	9.9	<5.0	<5.0	200
	2/14/2012	<5.0	<5.0	12.6	<5.0	<5.0	148
	4/25/2012	<5.0	<5.0	15.6	<5.0	<5.0	90.6
MMW-9S	2/22/2007	782	88.6	78.9	<5.0	<5.0	<2.0
	6/14/2007	858	85.7	65.3	<5.0	<5.0	<2.0
	9/20/2007	1,430	112	70.3	8.2	<5.0	<2.0
	12/12/2007	<50.0	<50.0	1,700	<50.0	<50.0	<20.0
	3/21/2008	57.0	20.0	2,900	39.0	<5.0	16.0
	6/6/2008	52.9	28.0	1,540	38.2	<5.0	295
	9/10/2008	52.6	22.7	4,920	94.5	<5.0	167
	11/20/2008	<5.0	<5.0	5,820	90.2	<5.0	1,010
	3/16/2009	<50.0	<50.0	7,490	73.8	<50.0	1,800
	6/16/2009	44.5	24.9	4,810	64.0	<5.0	876
	8/5/2009	<5.0	<5.0	5,010	64.2	<5.0	1,110
	11/2/2009	<5.0	<5.0	5,410	120	<5.0	1,050
	2/3/2010	<50.0	<50.0	5,090	98.4	<50.0	1,700
	4/22/2010	<5.0	<5.0	4,300	77.1	<5.0	1,710
	7/21/2010	<50.0	<50.0	2,910	73.2	<50.0	2,020
	10/12/2010	<50.0	<50.0	2,430	<50.0	<50.0	1,270
	1/19/2011	<50.0	<50.0	1,580	136	<50.0	1,490
	5/4/2011	11.1	13.4	2,900	71.7	<5.0	1,350
	7/27/2011	<5.0	<5.0	933	32.0	<5.0	747
	10/24/2011	<5.0	<5.0	2,330	92.8	<5.0	694
	2/14/2012	<25.0	<25.0	2,040	60.8	<25.0	1,140
	4/25/2012	<5.0	<5.0	1,180	30.1	<5.0	753

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2nd Quarter 2012
Michigan Plaza
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Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM 2009 RISC Default Industrial Cleanup Level		55	31	1,000	2,000	1,000	4
IDEM 2009 RISC Default Residential Cleanup Level; IDEM 2012 RCG Tap - Residential		5	5	70	100	80	2
MMW-10S	2/22/2007	49.6	<5.0	<5.0	<5.0	<5.0	<2.0
	6/14/2007	77.6	<5.0	<5.0	<5.0	<5.0	<2.0
	9/19/2007	66.0	<5.0	<5.0	<5.0	<5.0	<2.0
	12/12/2007	124	56.0	149	<5.0	<5.0	<2.0
	3/21/2008	440	12.0	8.1	<5.0	<5.0	12.0
	6/6/2008	541	62.1	218	<5.0	<5.0	30.4
	9/10/2008	6.9	<5.0	353	8.2	<5.0	<2.0
	11/20/2008	<5.0	<5.0	212	<5.0	<5.0	15.9
	3/16/2009	<5.0	<5.0	302	<5.0	<5.0	114
	6/16/2009	22.8	15.4	415	12.0	<5.0	81.4
	8/5/2009	<5.0	<5.0	224	5.5	<5.0	156
	11/2/2009	12.8	10.1	239	5.6	<5.0	119
	2/3/2010	8.3	7.5	180	5.1	<5.0	148
	4/22/2010	<5.0	7.9	165	<5.0	<5.0	143
	7/21/2010	15.6	9.7	267	8.3	<5.0	239
	10/12/2010	<5.0	<5.0	100	<5.0	<5.0	96.1
	1/19/2011	<5.0	14.4	80.9	12.7	<5.0	88.0
	5/4/2011	429	76.6	464	16.9	<5.0	130
	7/27/2011	24.5	14.3	206	7.2	<5.0	295
	10/19/2011	5.2	<5.0	134	<5.0	<5.0	198
	2/14/2012	35.0	21.6	357	6.7	<5.0	265
	4/24/2012	54.0	23.8	194	6.1	<5.0	196
MMW-11S	6/14/2007	<5.0	<5.0	225	6.8	<5.0	18.6
	9/19/2007	<5.0	<5.0	442	21.1	<5.0	30.1
	12/13/2007	7.2	<5.0	920	27.0	<5.0	49.0
	3/20/2008	<5.0	<5.0	420	17.0	<5.0	4.9
	6/5/2008	<5.0	<5.0	623	23.1	<5.0	26.7
	9/10/2008	<5.0	<5.0	327	18.3	<5.0	9.9
	11/20/2008	<5.0	<5.0	554	23.9	<5.0	18.5
	3/16/2009	<5.0	<5.0	37.6	<5.0	<5.0	<2.0
	6/16/2009	<5.0	<5.0	253	17.9	<5.0	2.8
	8/5/2009	<5.0	<5.0	80.7	5.5	<5.0	3.1
	11/2/2009	<5.0	<5.0	59.9	<5.0	<5.0	<2.0
	2/3/2010	<5.0	<5.0	29.4	<5.0	<5.0	<2.0
	4/22/2010	<5.0	<5.0	17.7	<5.0	<5.0	<2.0
	7/21/2010	<5.0	<5.0	120	7.4	<5.0	4.3
	10/12/2010	<5.0	<5.0	85.1	5.6	<5.0	<2.0
	1/19/2011	<5.0	<5.0	46.3	12.9	<5.0	<2.0
	4/30/2011	<5.0	<5.0	8.3	<5.0	<5.0	<2.0
	7/26/2011	<5.0	<5.0	15.1	<5.0	<5.0	<2.0
	10/21/2011	<5.0	<5.0	33.9	<5.0	<5.0	<2.0
	2/14/2012	<5.0	<5.0	5.4	<5.0	<5.0	<2.0
	4/24/2012	<5.0	<5.0	42.5	5.1	<5.0	<2.0
MMW-12S	6/16/2009	<5.0	<5.0	9.7	<5.0	<5.0	6.5
	8/5/2009	<5.0	<5.0	47.3	<5.0	<5.0	15.2
	11/2/2009	<5.0	<5.0	28.8	<5.0	<5.0	7.1
	2/3/2010	<5.0	<5.0	11.4	<5.0	<5.0	2.1
	4/20/2010	<5.0	<5.0	5.3	<5.0	<5.0	<2.0
	7/21/2010	<5.0	<5.0	25.4	<5.0	<5.0	7.3
	10/12/2010	<5.0	<5.0	16.8	<5.0	<5.0	<2.0
	1/18/2011	<5.0	<5.0	19.7	<5.0	<5.0	<2.0
	4/30/2011	<5.0	<5.0	30.6	<5.0	<5.0	2.7
	7/26/2011	<5.0	<5.0	24.3	<5.0	<5.0	<2.0
	10/18/2011	<5.0	<5.0	39.4	<5.0	<5.0	<2.0
	2/14/2012	<5.0	<5.0	24.0	<5.0	<5.0	<2.0
	4/23/2012	<5.0	<5.0	45.2	<5.0	<5.0	2.6
MMW-15S	2/15/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/26/2012	<5.0	<5.0	11.2	<5.0	<5.0	<2.0

Table 4
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2nd Quarter 2012
Michigan Plaza
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Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM 2009 RISC Default Industrial Cleanup Level		55	31	1,000	2,000	1,000	4
IDEM 2009 RISC Default Residential Cleanup Level; IDEM 2012 RCG Tap - Residential		5	5	70	100	80	2
Deep Wells							
MMW-4D	8/25/2004	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	9/10/2004	<5.0	<5.0	980	<5.0	<5.0	200
	11/10/2005	<5.0	<5.0	850	<5.0	<5.0	240
	9/5/2006	<5.0	<5.0	1,100	<5.0	<5.0	220
	2/22/2007	<5.0	<5.0	1,460	<5.0	<5.0	248
	6/2/2008	<5.0	<5.0	515	<5.0	<5.0	32.2
	6/15/2009	<5.0	<5.0	892	7.0	<5.0	142
	4/20/2010	<5.0	<5.0	719	<5.0	<5.0	237
	4/29/2011	<5.0	<5.0	1,050	<5.0	<5.0	164
	2/14/2012	<5.0	<5.0	639	<5.0	<5.0	237
	4/23/2012	<5.0	<5.0	338	<5.0	<5.0	176
MMW-5D	8/24/2004	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	9/10/2004	<5.0	<5.0	3,400	13.0	<5.0	270
	11/10/2005	<5.0	<5.0	3,900	19.0	<5.0	140
	9/5/2006	<50.0	<50	2,500	<50	<5.0	170
	2/22/2007	<50.0	<50	3,970	<50	<5.0	359
	6/2/2008	<5.0	<5.0	1,360	19.9	<5.0	207
	6/15/2009	<5.0	<5.0	1,110	14.5	<5.0	242
	4/20/2010	<5.0	<5.0	943	<5.0	<5.0	204
	4/29/2011	<5.0	<5.0	659	<5.0	<5.0	166
	4/23/2012	<5.0	<5.0	228	<5.0	<5.0	126
MMW-6D	9/10/2004	<5.0	<5.0	540	<5.0	<5.0	400
	11/10/2005	<5.0	<5.0	750	<5.0	<5.0	700
	9/5/2006	<5.0	<5.0	300	<5.0	<5.0	440
	2/21/2007	<5.0	<5.0	171	<5.0	<5.0	282
	6/2/2008	<5.0	<5.0	65.5	<5.0	<5.0	242
	6/15/2009	<5.0	<5.0	8.6	<5.0	<5.0	111
	4/20/2010	<5.0	<5.0	8.2	<5.0	<5.0	63.6
	4/29/2011	<5.0	<5.0	<5.0	<5.0	<5.0	51.1
	2/14/2012	<5.0	<5.0	<5.0	<5.0	<5.0	43.9
	4/23/2012	<5.0	<5.0	<5.0	<5.0	<5.0	38.5
MMW-11D	6/16/2009	<5.0	<5.0	25.3	6.7	<5.0	<2.0
	8/5/2009	<5.0	<5.0	485	22.6	<5.0	15.3
	11/2/2009	<5.0	<5.0	771	31.8	<5.0	18.8
	2/3/2010	<5.0	<5.0	301	28.2	<5.0	5.2
	4/22/2010	<5.0	<5.0	307	21.8	<5.0	2.6
	7/21/2010	<5.0	<5.0	396	21.8	<5.0	10.9
	10/12/2010	<5.0	<5.0	162	<5.0	<5.0	<2.0
	1/19/2011	<5.0	<5.0	570	26.7	<5.0	5.9
	4/30/2011	<5.0	<5.0	356	17.2	<5.0	3.6
	7/26/2011	<5.0	<5.0	304	18.3	<5.0	3.6
	10/21/2011	<5.0	<5.0	751	22.7	<5.0	11.8
	2/14/2012	<5.0	<5.0	240	19.0	<5.0	<2.0
	4/24/2012	<5.0	<5.0	186	13.0	<5.0	<2.0
MMW-13D	8/5/2009	<5.0	<5.0	672	<5.0	<5.0	59.2
	11/2/2009	<5.0	<5.0	949	<5.0	<5.0	182
	2/3/2010	<5.0	<5.0	819	6.2	<5.0	260
	4/22/2010	<5.0	<5.0	469	<5.0	<5.0	4.6
	7/21/2010	<5.0	<5.0	432	<5.0	<5.0	16.6
	10/12/2010	<5.0	<5.0	1,200	<5.0	<5.0	187
	1/19/2011	<5.0	<5.0	920	12.3	<5.0	179
	4/30/2011	<5.0	<5.0	527	<5.0	<5.0	15.4
	7/26/2011	<5.0	<5.0	328	<5.0	<5.0	11.9
	10/18/2011	<5.0	<5.0	771	5.2	<5.0	140
	2/14/2012	<5.0	<5.0	331	<5.0	<5.0	9.9
	4/24/2012	<5.0	<5.0	422	<5.0	<5.0	46.7
MMW-13D Low	6/16/2009	<5.0	<5.0	613	10.4	<5.0	17.3
MMW-13D Medium (29')	6/16/2009	<5.0	<5.0	578	12.1	<5.0	14.9
MMW-13D High (17')	6/16/2009	<5.0	<5.0	597	9.7	<5.0	21.1

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Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM 2009 RISC Default Industrial Cleanup Level		55	31	1,000	2,000	1,000	4
IDEM 2009 RISC Default Residential Cleanup Level; IDEM 2012 RCG Tap - Residential		5	5	70	100	80	2
MMW-14D	6/16/2009	<5.0	<5.0	648	15.6	<5.0	57.6
	8/5/2009	<5.0	<5.0	589	10.9	<5.0	79.1
	11/2/2009	<5.0	<5.0	541	9.2	<5.0	83.8
	2/3/2010	<5.0	<5.0	871	13.9	<5.0	84.9
	4/20/2010	<5.0	<5.0	763	14.1	<5.0	72.8
	7/21/2010	<5.0	<5.0	805	14.6	<5.0	60.8
	10/12/2010	<5.0	<5.0	775	8.4	<5.0	83.3
	1/18/2011	<5.0	<5.0	785	24.0	<5.0	109
	4/30/2011	<5.0	<5.0	1,070	14.7	<5.0	68.3
	7/26/2011	<5.0	<5.0	875	15.3	<5.0	81.0
	10/19/2011	<5.0	<5.0	898	11.1	<5.0	92.6
	2/14/2012	<5.0	<5.0	1080	17.4	<5.0	89.7
	4/23/2012	<5.0	<5.0	996	11.0	<5.0	79.6
MMW-15D	2/15/2012	<5.0	<5.0	7.3	<5.0	<5.0	<2.0
	4/26/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
Monitoring Wells (Plaza)							
Shallow Wells							
MMW-P-01	11/9/2005	33	210	160	9.6	<5.0	76.0
	2/22/2007	85.2	356	274	16.7	<5.0	28.7
	6/14/2007	111	368	350	10.0	<5.0	79.6
	9/20/2007	206	322	300	11.5	<5.0	127
	12/14/2007	230	320	240	7.1	<5.0	87.0
	3/21/2008	120	170	3,100	25.0	<5.0	42.0
	6/5/2008	22.0	31.5	3,660	68.6	<5.0	123
	9/11/2008	14.2	15.1	1,690	<5.0	<5.0	87.7
	11/19/2008	<5.0	<5.0	4,320	<5.0	<5.0	116
	3/17/2009	17.5	22.6	12,300	143	<5.0	3,290
	6/17/2009	<50.0	<50.0	4,020	63.9	<50.0	1,840
	8/6/2009	97.4	<50.0	12,200	<50.0	<50.0	3,730
	11/3/2009	103	58.3	9,330	<50.0	<50.0	4,770
	2/4/2010	104	60.6	9,190	130	<50.0	13,600
	4/22/2010	90.5	79.0	9,400	94.7	<50.0	12,600
	7/7/2010	<50.0	<50.0	1,880	<50.0	<50.0	2,960
	10/14/2010	<125	<125	4,760	<125	<125	5,440
	1/20/2011	153	140	1,960	<50.0	<50.0	11,100
	5/5/2011	8.4	26.8	281	<5.0	<5.0	232
	7/28/2011	5.7	6.0	734	<5.0	<5.0	1,070
	10/24/2011	23.4	10.0	839	9.10	<5.0	1,410
	2/13/2012	15.0	<5.0	438	<5.0	<5.0	2,270
	4/25/2012	21.8	11.0	459	8.1	<5.0	1,720
MMW-P-02	11/8/2005	24.0	<5.0	87.0	7.3	<5.0	49.0
	2/22/2007	184	<5.0	39.4	<5.0	<5.0	27.4
	6/14/2007	17.1	<5.0	35.0	<5.0	<5.0	27.5
	9/19/2007	13.3	<5.0	66.3	5.6	<5.0	50.1
	12/13/2007	7.8	<5.0	69.0	<5.0	<5.0	53.0
	3/20/2008	19.0	<5.0	67.0	<5.0	<5.0	42.0
	6/5/2008	94.9	<5.0	44.0	<5.0	<5.0	46.4
	9/11/2008	17.5	<5.0	46.6	<5.0	<5.0	42.0
	11/19/2008	10.7	<5.0	75.4	<5.0	<5.0	69.5
	3/17/2009	23.4	<5.0	65.4	5.3	<5.0	68.4
	6/17/2009	5.1	<5.0	54.2	9.2	<5.0	80.6
	8/6/2009	5.1	<5.0	55.8	<5.0	<5.0	56.2
	11/3/2009	11.1	<5.0	60.1	<5.0	<5.0	73.9
	2/4/2010	7.4	<5.0	75.8	5.8	<5.0	104
	4/22/2010	9.9	6.8	56.0	8.0	<5.0	110
	7/21/2010	24.0	<5.0	72.4	<5.0	<5.0	161
	10/13/2010	9.3	<5.0	61.0	<5.0	<5.0	95.0
	1/19/2011	15.9	<5.0	64.3	14.0	<5.0	396
	5/4/2011	9.2	<5.0	56.5	<5.0	<5.0	386
	7/27/2011	<5.0	<5.0	42.9	<5.0	<5.0	218
	10/19/2011	9.1	<5.0	36.9	<5.0	<5.0	304
	2/13/2012	<5.0	<5.0	120.0	<5.0	<5.0	479
	4/25/2012	<5.0	<5.0	53.4	<5.0	<5.0	274

Table 4
Monitoring Well Groundwater Analytical Results
2nd Quarter 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM 2009 RISC Default Industrial Cleanup Level		55	31	1,000	2,000	1,000	4
IDEM 2009 RISC Default Residential Cleanup Level; IDEM 2012 RCG Tap - Residential		5	5	70	100	80	2
MMW-P-03S	11/9/2005	110	<5.0	97.0	9.6	<5.0	<2.0
	2/22/2007	397	<5.0	105	10.0	<5.0	<2.0
	6/14/2007	256	<5.0	96.4	9.2	<5.0	9.3
	9/20/2007	144	<5.0	131	15.8	<5.0	16.0
	12/13/2007	67.0	<5.0	88.0	5.3	<5.0	15.0
	3/20/2008	130	<5.0	84.0	7.3	<5.0	10.0
	6/5/2008	19.4	<5.0	380	14.9	<5.0	10.6
	9/11/2008	<5.0	<5.0	<5.0	<5.0	<5.0	72.6
	11/19/2008	<5.0	6.0	494	<5.0	<5.0	40.8
	3/17/2009	7.5	<5.0	904	38.7	<5.0	283
	6/17/2009	<5.0	<5.0	332	22.3	<5.0	759
	8/6/2009	30.6	8.2	573	25.0	<5.0	843
	11/3/2009	<5.0	<5.0	141	16.1	<5.0	379
	2/4/2010	<5.0	<5.0	155	19.4	<5.0	382
	4/22/2010	14.2	8.9	156	13.4	<5.0	377
	7/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	141
	10/13/2010	<5.0	<5.0	70.9	9.2	<5.0	542
	1/19/2011	<5.0	<5.0	79.7	19.4	<5.0	338
	5/4/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	7/27/2011	<5.0	<5.0	29.3	<5.0	<5.0	245
	10/19/2011	<5.0	<5.0	33.5	6.6	<5.0	446
	2/13/2012	<5.0	<5.0	48.0	<5.0	<5.0	221
	4/25/2012	<5.0	<5.0	18.4	<5.0	<5.0	257
MMW-P-04	11/9/2005	180	<5.0	<5.0	<5.0	<5.0	<2.0
	2/22/2007	315	<5.0	<5.0	<5.0	<5.0	<2.0
	6/14/2007	268	<5.0	<5.0	<5.0	<5.0	<2.0
	9/20/2007	214	<5.0	<5.0	<5.0	<5.0	<2.0
	12/13/2007	62.0	<5.0	<5.0	<5.0	<5.0	<2.0
	3/20/2008	120	<5.0	<5.0	<5.0	<5.0	<2.0
	6/6/2008	154	6.0	59.7	<5.0	<5.0	<2.0
	9/11/2008	31.9	<5.0	360	7.1	<5.0	<2.0
	11/19/2008	45.0	<5.0	248	<5.0	<5.0	<2.0
	3/18/2009	19.4	5.4	304	10.8	<5.0	<2.0
	6/17/2009	35.3	5.4	827	22.0	<5.0	2.0
	8/6/2009	<5.0	<5.0	15.1	<5.0	<5.0	<2.0
	11/5/2009	<5.0	<5.0	1,190	36.9	<5.0	90.9
	2/12/2010	<5.0	<5.0	144	8.3	<5.0	224
	4/21/2010	<5.0	<5.0	268	15.8	<5.0	364
	7/22/2010	<5.0	<5.0	189	12.9	<5.0	402
	10/13/2010	<5.0	<5.0	10.3	<5.0	<5.0	16.8
	2/18/2011	<5.0	<5.0	6.4	<5.0	<5.0	36.3
	5/5/2011	144	<5.0	76.2	<5.0	<5.0	124
	7/28/2011	<5.0	<5.0	30.6	<5.0	<5.0	78.8
	10/24/2011	<5.0	<5.0	14.8	<5.0	<5.0	68.7
	2/16/2012	<5.0	<5.0	6.9	<5.0	<5.0	16.1
	5/1/2012	<5.0	<5.0	<5.0	<5.0	<5.0	5.7

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Monitoring Well Groundwater Analytical Results
2nd Quarter 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM 2009 RISC Default Industrial Cleanup Level		55	31	1,000	2,000	1,000	4
IDEM 2009 RISC Default Residential Cleanup Level; IDEM 2012 RCG Tap - Residential		5	5	70	100	80	2
MMW-P-05	11/8/2005	<5.0	<5.0	6.2	<5.0	<5.0	<2.0
	2/22/2007	23.7	<5.0	9.1	<5.0	<5.0	<2.0
	6/14/2007	<5.0	<5.0	18.8	<5.0	<5.0	<2.0
	9/19/2007	<5.0	<5.0	18.8	<5.0	<5.0	<2.0
	12/14/2007	<5.0	<5.0	14.8	<5.0	<5.0	<2.0
	3/20/2008	<5.0	<5.0	8.1	<5.0	<5.0	<2.0
	6/5/2008	<5.0	<5.0	15.6	<5.0	<5.0	<2.0
	9/11/2008	<5.0	<5.0	16.7	<5.0	<5.0	<2.0
	11/19/2008	<5.0	<5.0	22.1	<5.0	<5.0	<2.0
	3/17/2009	<5.0	<5.0	13.7	<5.0	<5.0	<2.0
	6/17/2009	<5.0	<5.0	10.9	6.6	<5.0	<2.0
	8/6/2009	<5.0	<5.0	15.1	<5.0	<5.0	<2.0
	11/3/2009	<5.0	<5.0	7.6	<5.0	<5.0	2.7
	2/4/2010	<5.0	<5.0	6.8	<5.0	<5.0	<2.0
	4/22/2010	<5.0	<5.0	8.6	<5.0	<5.0	<2.0
	7/21/2010	<5.0	<5.0	10.4	<5.0	<5.0	5.3
	10/13/2010	<5.0	<5.0	13.6	<5.0	<5.0	3.9
	1/20/2011	<5.0	<5.0	14.1	<5.0	<5.0	<2.0
	4/30/2011	<5.0	<5.0	<5.0	<5.0	<5.0	9.2
	7/27/2011	<5.0	<5.0	10.3	<5.0	<5.0	307
	10/19/2011	<5.0	<5.0	8.3	<5.0	<5.0	48.3
	2/13/2012	<5.0	<5.0	<5.0	<5.0	<5.0	79.4
	4/25/2012	<5.0	<5.0	<5.0	<5.0	<5.0	80.9
MMW-P-06	11/8/2005	<5.0	<5.0	200	24.0	<5.0	21.0
	2/22/2007	<5.0	<5.0	158	19.2	<5.0	<2.0
	6/14/2007	<5.0	<5.0	214	22.7	<5.0	13.3
	9/19/2007	<5.0	<5.0	283	38.2	<5.0	26.1
	12/14/2007	<5.0	<5.0	260	40.0	<5.0	31.0
	3/20/2008	<5.0	<5.0	250	31.0	<5.0	26.0
	6/5/2008	<5.0	<5.0	265	30.9	<5.0	40.1
	9/11/2008	<5.0	<5.0	271	33.3	<5.0	<2.0
	11/19/2008	<5.0	<5.0	292	<5.0	<5.0	61.4
	3/17/2009	<5.0	<5.0	292	35.3	<5.0	<2.0
	6/17/2009	<5.0	<5.0	145	22.2	<5.0	90.6
	8/6/2009	<5.0	<5.0	136	14.3	<5.0	301
	11/3/2009	<5.0	<5.0	107	15.2	<5.0	292
	2/4/2010	<5.0	<5.0	79.1	11.2	<5.0	1,870
	4/22/2010	<5.0	<5.0	23.7	8.0	<5.0	2,470
	7/21/2010	<50.0	<50.0	<50.0	<50.0	<50.0	5,870
	10/14/2010	<100	<100	<100	<100	<100	12,900
	1/20/2011	<100	<100	2,700	<100	<100	15,000
	5/4/2011	<50.0	<50.0	2,850	<50.0	<50.0	14,400
	7/28/2011	<50.0	<50.0	1,670	<50.0	<50.0	15,600
	10/24/2011	<50.0	<50.0	10,100	<50.0	<50.0	11,300
	2/13/2012	<50.0	<50.0	2,800	<50.0	<50.0	10,100
	4/26/2012	<5.0	<5.0	3,220	29.2	<5.0	7,090

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Michigan Plaza
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Indianapolis, Indiana
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Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM 2009 RISC Default Industrial Cleanup Level		55	31	1,000	2,000	1,000	4
IDEM 2009 RISC Default Residential Cleanup Level; IDEM 2012 RCG Tap - Residential		5	5	70	100	80	2
MMW-P-07	2/22/2007	3,060	81.5	82.0	8.8	<5.0	<2.0
	6/14/2007	2,850	90.0	82.5	<50.0	<50.0	<20.0
	9/20/2007	5,200	109	121	16.1	<5.0	2.0
	12/13/2007	1,440	157	930	8.8	7.4	80.0
	3/21/2008	31.0	7.6	1,700	27.0	<5.0	110
	6/5/2008	<5.0	<5.0	938	15.6	<5.0	466
	9/11/2008	<5.0	<5.0	1,870	55.2	<5.0	1,620
	11/19/2008	<5.0	<5.0	797	<5.0	<5.0	749
	3/17/2009	<5.0	<5.0	361	17.7	<5.0	1,830
	6/17/2009	<5.0	<5.0	87.1	9.4	<5.0	1,130
	8/6/2009	<5.0	<5.0	48.7	<5.0	<5.0	787
	11/3/2009	<5.0	<5.0	809	14.1	<5.0	1,510
	2/4/2010	<5.0	<5.0	555	12.4	<5.0	1,880
	4/22/2010	<5.0	7.0	1,050	23.7	<5.0	2,080
	7/22/2010	<5.0	<5.0	247	7.8	<5.0	1,680
	10/14/2010	<25.0	<25.0	665	<25.0	<25.0	2,310
	1/20/2011	<5.0	<5.0	295	13.9	<5.0	562
	5/4/2011	<5.0	<5.0	72.0	<5.0	<5.0	2,170
	7/28/2011	<5.0	<5.0	73.6	<5.0	<5.0	978
	10/24/2011	<5.0	<5.0	37.3	<5.0	<5.0	388
	2/13/2012	<5.0	<5.0	<5.0	<5.0	<5.0	330
	4/25/2012	<5.0	<5.0	11.6	<5.0	<5.0	266
MMW-P-08	2/22/2007	6,280	281	240	26.7	<5.0	<2.0
	6/14/2007	6,440	310	169	<50.0	<50.0	<20.0
	9/20/2007	9,780	494	201	25.3	<5.0	6.5
	12/14/2007	390	210	5,800	<50.0	<50.0	<20.0
	3/21/2008	6.7	11.0	6,500	130	<5.0	55.0
	6/5/2008	<5.0	<5.0	<5.0	<5.0	<5.0	562
	9/11/2008	5.8	5.0	18,300	686	<50.0	4,740
	11/19/2008	<50.0	<50.0	5,690	91.4	<50.0	13,000
	3/17/2009	<5.0	<5.0	1,130	47.1	<5.0	5,680
	6/17/2009	<125	<125	356	145	<5.0	7,200
	8/6/2009	<125	<125	601	<50.0	<50.0	8,960
	11/3/2009	<50.0	<50.0	86.7	<50.0	<50.0	2,860
	2/4/2010	<50.0	<50.0	1,140	<50.0	<50.0	4,860
	4/22/2010	<5.0	<5.0	45.7	8.1	<5.0	2,180
	7/22/2010	<5.0	<5.0	97.8	<5.0	<5.0	1,320
	10/14/2010	<25.0	<25.0	39.5	<25.0	<25.0	676
	1/20/2011	<5.0	<5.0	590	14.8	<25.0	1,770
	5/4/2011	<5.0	<5.0	288	<5.0	<5.0	2,030
	7/27/2011	<5.0	<5.0	35.9	<5.0	<5.0	274
	10/24/2011	<5.0	<5.0	32.5	<5.0	<5.0	136
	2/13/2012	<5.0	<5.0	<5.0	<5.0	<5.0	52.5
	4/25/2012	<5.0	<5.0	5.0	<5.0	<5.0	85.2

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2nd Quarter 2012
Michigan Plaza
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Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM 2009 RISC Default Industrial Cleanup Level		55	31	1,000	2,000	1,000	4
IDEM 2009 RISC Default Residential Cleanup Level; IDEM 2012 RCG Tap - Residential		5	5	70	100	80	2
MMW-P-09S	2/22/2007	10.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/14/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	9/19/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	12/12/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	3/20/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/5/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	9/11/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	11/19/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	3/17/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/16/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	8/6/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	11/3/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	2/3/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/22/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	7/22/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	10/13/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	1/19/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/30/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	7/26/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	10/18/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	2/15/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/24/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-P-10S	6/14/2007	36.1	36.3	61.6	6.9	<5.0	<2.0
	7/6/2007	87.9	54.9	92.1	10.2	<5.0	<2.0
	9/19/2007	192	82.6	126	14.4	<5.0	<2.0
	12/14/2007	71.0	<5.0	<5.0	<5.0	<5.0	2.4
	3/20/2008	26.8	19.2	250	12.2	<5.0	<2.0
	6/5/2008	15.0	9.7	537	16.0	<5.0	114
	9/11/2008	74.8	36.5	1,650	74.0	<5.0	27.7
	11/19/2008	78.6	28.0	1,510	<5.0	<5.0	22.3
	3/17/2009	11.9	8.6	1,160	71.5	<5.0	<2.0
	6/17/2009	<5.0	<5.0	331	20.5	<5.0	63.9
	8/6/2009	<5.0	<5.0	158	16.1	<5.0	395
	11/3/2009	<5.0	<5.0	29.6	<5.0	<5.0	288
	2/4/2010	<5.0	<5.0	45.4	<5.0	<5.0	419
	4/22/2010	<5.0	<5.0	16.2	<5.0	<5.0	118
	7/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	16.5
	10/14/2010	<5.0	<5.0	5.4	<5.0	<5.0	381
	1/20/2011	<5.0	<5.0	11.7	<5.0	<5.0	27.8
	5/5/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	7/27/2011	<5.0	<5.0	<5.0	<5.0	<5.0	12.5
	10/21/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	2/13/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/25/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-P-12S	9/9/2011	<5.0	<5.0	741	14.1	<5.0	50.8
	10/24/2011	<5.0	<5.0	642	19.2	<5.0	60.7
	2/15/2012	<5.0	<5.0	777	14.5	<5.0	61.4
	5/1/2012	<5.0	<5.0	454	12.4	<5.0	50.9

Table 4
Monitoring Well Groundwater Analytical Results
2nd Quarter 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM 2009 RISC Default Industrial Cleanup Level		55	31	1,000	2,000	1,000	4
IDEM 2009 RISC Default Residential Cleanup Level; IDEM 2012 RCG Tap - Residential		5	5	70	100	80	2
Deep Wells							
MMW-P-03D	11/9/2005	22.0	<5.0	42.0	<5.0	<5.0	2.0
	2/22/2007	48.9	<5.0	57.8	<5.0	39.0	15.6
	6/14/2007	21.7	<5.0	74.9	<5.0	<5.0	34.5
	9/19/2007	14.3	<5.0	76.1	7.3	<5.0	36.6
	12/13/2007	11.0	<5.0	40.0	<5.0	<5.0	20.0
	39527	<5.0	<5.0	170	6.0	<5.0	18.0
	39604	<5.0	<5.0	150	7.4	<5.0	26.0
	39702	<5.0	<5.0	95.7	6.4	<5.0	<2.0
	11/19/2008	<5.0	<5.0	80.6	<5.0	<5.0	36.9
	3/17/2009	<5.0	<5.0	65.2	<5.0	<5.0	69.8
	6/17/2009	<5.0	<5.0	14.9	5.9	<5.0	137
	8/6/2009	<5.0	<5.0	16.7	<5.0	<5.0	248
	11/3/2009	<5.0	<5.0	8.5	<5.0	<5.0	168
	2/4/2010	<5.0	<5.0	<5.0	<5.0	<5.0	287
	4/22/2010	<5.0	<5.0	7.2	<5.0	<5.0	211
	7/21/2010	6.6	<5.0	271	8.1	<5.0	305
	10/13/2010	<5.0	<5.0	<5.0	<5.0	<5.0	16.2
	1/19/2011	<5.0	<5.0	<5.0	<5.0	<5.0	46.2
	5/4/2011	<5.0	<5.0	64.3	<5.0	<5.0	118
	7/27/2011	<5.0	<5.0	<5.0	<5.0	<5.0	10.5
	10/18/2011	<5.0	<5.0	<5.0	<5.0	<5.0	61.5
	2/13/2012	<5.0	<5.0	<5.0	<5.0	<5.0	4.0
	4/25/2012	<5.0	<5.0	<5.0	<5.0	<5.0	16.6
MMW-P-09D	6/14/2007	<5.0	<5.0	<5.0	<5.0	<5.0	46.2
	9/19/2007	<5.0	<5.0	<5.0	<5.0	<5.0	83.1
	12/12/2007	<5.0	<5.0	<5.0	<5.0	<5.0	71.0
	3/20/2008	<5.0	<5.0	<5.0	<5.0	<5.0	3.0
	6/5/2008	<5.0	<5.0	<5.0	<5.0	<5.0	100
	9/11/2008	<5.0	<5.0	<5.0	<5.0	<5.0	72.6
	11/19/2008	<5.0	<5.0	<5.0	<5.0	<5.0	97.2
	3/17/2009	<5.0	<5.0	<5.0	<5.0	<5.0	85.1
	6/16/2009	<5.0	<5.0	<5.0	<5.0	<5.0	73.5
	8/6/2009	<5.0	<5.0	<5.0	<5.0	<5.0	80.8
	11/3/2009	<5.0	<5.0	<5.0	<5.0	<5.0	87.1
	2/3/2010	<5.0	<5.0	<5.0	<5.0	<5.0	111
	4/22/2010	<5.0	<5.0	<5.0	<5.0	<5.0	76.9
	7/22/2010	<5.0	<5.0	<5.0	<5.0	<5.0	81.2
	10/13/2010	<5.0	<5.0	<5.0	<5.0	<5.0	70.6
	1/19/2011	<5.0	<5.0	<5.0	<5.0	<5.0	66.9
	4/30/2011	<5.0	<5.0	<5.0	<5.0	<5.0	74.5
	7/26/2011	<5.0	<5.0	<5.0	<5.0	<5.0	83.3
	10/21/2011	<5.0	<5.0	<5.0	<5.0	<5.0	71.9
	2/15/2012	<5.0	<5.0	<5.0	<5.0	<5.0	70.7
	4/24/2012	<5.0	<5.0	<5.0	<5.0	<5.0	56.6

Table 4
Monitoring Well Groundwater Analytical Results
2nd Quarter 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM 2009 RISC Default Industrial Cleanup Level		55	31	1,000	2,000	1,000	4
IDEM 2009 RISC Default Residential Cleanup Level; IDEM 2012 RCG Tap - Residential		5	5	70	100	80	2
MMW-P-10D	6/14/2007	<5.0	10.6	481	7.7	<5.0	98.7
	7/6/2007	<5.0	<5.0	498	9.0	<5.0	118
	9/19/2007	<5.0	<5.0	350	<5.0	<5.0	76.1
	12/14/2007	<5.0	<5.0	270	<5.0	<5.0	77.0
	3/20/2008	<5.0	<5.0	<5.0	<5.0	<5.0	3.0
	6/5/2008	<5.0	<5.0	508	<5.0	<5.0	267
	9/11/2008	<5.0	<5.0	435	<5.0	<5.0	288
	11/19/2008	<5.0	<5.0	3,390	<5.0	<5.0	5,030
	3/17/2009	<5.0	<5.0	4,860	12.9	<5.0	2,500
	6/17/2009	<5.0	<5.0	3,710	9.6	<5.0	9,070
	8/6/2009	<5.0	<5.0	2,520	5.1	<5.0	3,400
	11/3/2009	<5.0	<5.0	2,740	<5.0	<5.0	3,500
	2/4/2010	<5.0	<5.0	406	<5.0	<5.0	2,130
	4/22/2010	<5.0	<5.0	30.5	<5.0	<5.0	364
	7/22/2010	<5.0	<5.0	120	<5.0	<5.0	865
	10/14/2010	<25.0	<25.0	<25.0	<25.0	<25.0	707
	1/20/2011	<5.0	<5.0	21.4	<5.0	<5.0	1,210
	5/5/2011	<5.0	<5.0	8.1	<5.0	<5.0	272
	7/27/2011	<5.0	<5.0	46.5	<5.0	<5.0	825
	10/21/2011	<5.0	<5.0	<5.0	<5.0	<5.0	444
	2/13/2012	<5.0	<5.0	28.7	<5.0	<5.0	1790
	4/25/2012	<5.0	<5.0	<5.0	<5.0	<5.0	289
MMW-P-12D	9/9/2011	<5.0	<5.0	678	15.9	<5.0	63.0
	10/24/2011	<5.0	<5.0	644	14.2	<5.0	71.3
	2/15/2012	<5.0	<5.0	727	15.0	<5.0	65.1
	5/1/2012	<5.0	<5.0	591	15.2	<5.0	69.4
ENVIRON Monitoring Wells (Off-site)							
Shallow Wells							
MW-167S	11/7/2005	<5.0	<5.0	<5.0	<5.0	<5.0	14.0
	2/21/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/5/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/17/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/29/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	5/2/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MW-168S	11/7/2005	280	16.0	53.0	<5.0	<5.0	3.0
	2/21/2007	30.1	8.8	155	<5.0	<5.0	29.6
	6/14/2007	<5.0	<5.0	40.8	<5.0	<5.0	34.0
	9/19/2007	32.6	8.0	82.4	<5.0	<5.0	3.5
	12/13/2007	52.0	14.0	78.0	<5.0	<5.0	4.1
	3/20/2008	92.0	12.0	46.0	<5.0	<5.0	4.2
	6/5/2008	80.4	10.1	41.1	<5.0	<5.0	3.6
	9/11/2008	68.5	10.8	66.9	<5.0	<5.0	5.5
	8/7/2009	62.6	10.2	118	<5.0	NS	9.9
	4/21/2010	14.0	7.0	21.9	<5.0	<5.0	<2.0
MW-169S	2/21/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	11/7/2005	<5.0	<5.0	<5.0	<5.0	NA	<2.0
	6/5/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/29/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MW-170S	2/21/2007	<5.0	<5.0	<5.0	<5.0	<5.0	21.2
	6/3/2008	<5.0	<5.0	<5.0	<5.0	<5.0	5.5
	6/17/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/29/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	2/16/2012	<5.0	<5.0	6.3	<5.0	<5.0	<2.0
	5/2/2012	<5.0	<5.0	6.0	<5.0	<5.0	<2.0
MW-171S	2/21/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/3/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/29/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	5/2/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0

Table 4
Monitoring Well Groundwater Analytical Results
2nd Quarter 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM 2009 RISC Default Industrial Cleanup Level		55	31	1,000	2,000	1,000	4
IDEM 2009 RISC Default Residential Cleanup Level; IDEM 2012 RCG Tap - Residential		5	5	70	100	80	2
Deep Wells							
MW-165D	7/7/2010	<5.0	<5.0	122	<5.0	<5.0	202
MW-167D	11/7/2005	<5.0	<5.0	750	<5.0	<5.0	110
	2/21/2007	<5.0	<5.0	375	10.0	<5.0	59.3
	6/5/2008	<5.0	<5.0	616	28.0	<5.0	43.8
	6/17/2009	<5.0	<5.0	612	22.1	<5.0	23.8
	4/21/2010	<5.0	<5.0	626	22.1	<5.0	25.6
	4/29/2011	<5.0	<5.0	392	18.9	<5.0	14.9
	2/16/2012	<5.0	<5.0	541	<5.0	<5.0	20.0
	5/2/2012	<5.0	<5.0	377	16.9	<5.0	21.7
MW-168D	11/7/2005	<5.0	<5.0	6.8	<5.0	<5.0	49.0
	2/21/2007	<5.0	<5.0	8.4	<5.0	<5.0	58.1
	6/14/2007	<5.0	<5.0	5.2	<5.0	<5.0	47.5
	9/19/2007	<5.0	<5.0	<5.0	<5.0	<5.0	89.7
	12/12/2007	<5.0	<5.0	<5.0	<5.0	<5.0	74.0
	3/20/2008	<5.0	<5.0	8.0	<5.0	<5.0	39.0
	6/5/2008	<5.0	<5.0	13.4	<5.0	<5.0	65.9
	9/11/2008	<5.0	<5.0	5.5	<5.0	<5.0	<2.0
	3/17/2009	<5.0	<5.0	16.5	<5.0	<5.0	<2.0
	6/18/2009	<5.0	<5.0	<5.0	<5.0	<5.0	14.5
	8/7/2009	<5.0	<5.0	<5.0	<5.0	<5.0	36.2
	11/4/2009	<5.0	<5.0	<5.0	<5.0	<5.0	99.1
	2/4/2010	<5.0	<5.0	6.3	<5.0	<5.0	128
	4/21/2010	<5.0	<5.0	13.2	<5.0	<5.0	134
	7/22/2010	<5.0	<5.0	6.0	<5.0	<5.0	122
	10/13/2010	<5.0	<5.0	<5.0	<5.0	<5.0	134
	4/29/2011	<5.0	<5.0	<5.0	10.0	<5.0	96.4
	7/28/2011	<5.0	<5.0	<5.0	<5.0	<5.0	228
	10/24/2011	<5.0	<5.0	8.9	<5.0	<5.0	137
	2/16/2012	<5.0	<5.0	<5.0	<5.0	<5.0	108
	5/2/2012	<5.0	<5.0	<5.0	<5.0	<5.0	130
MW-169D	2/21/2007	<5.0	<5.0	<5.0	<5.0	<5.0	11.9
	11/7/2005	<5.0	<5.0	<5.0	<5.0	NA	5.1
	6/5/2008	<5.0	<5.0	<5.0	<5.0	<5.0	14.3
	4/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	6.1
	4/29/2011	<5.0	<5.0	<5.0	<5.0	<5.0	9.1
	5/2/2012	<5.0	<5.0	<5.0	<5.0	<5.0	27.1
MW-170D	2/21/2007	<5.0	<5.0	<5.0	<5.0	<5.0	105
	6/3/2008	<5.0	<5.0	<5.0	<5.0	<5.0	230
	6/17/2009	<5.0	<5.0	<5.0	<5.0	<5.0	174
	4/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	161
	7/7/2010	<5.0	<5.0	<5.0	<5.0	<5.0	233
	4/29/2011	<5.0	<5.0	<5.0	<5.0	<5.0	100
	2/16/2012	<5.0	<5.0	<5.0	<5.0	<5.0	88.8
	5/2/2012	<5.0	<5.0	<5.0	<5.0	<5.0	91.0
MW-171D	2/21/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/3/2008	<5.0	<5.0	<5.0	<5.0	<5.0	3.0
	6/16/2009	<5.0	<5.0	<5.0	<5.0	<5.0	2.2
	4/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	6.3
	7/22/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/29/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	5/2/2012	<5.0	<5.0	<5.0	<5.0	<5.0	9.5

Table 4
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2nd Quarter 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM 2009 RISC Default Industrial Cleanup Level		**55**	**31**	**1,000**	**2,000**	**1,000**	**4**
IDEM 2009 RISC Default Residential Cleanup Level; IDEM 2012 RCG Tap - Residential		**5**	**5**	**70**	**100**	**80**	**2**
Floral Park Cemetery Wells (Off-site)							
Shallow Wells							
MMW-C-01	11/20/2008	**15.7**	**8.3**	**296**	<5.0	<5.0	<2.0
	3/17/2009	<5.0	<5.0	**508**	7.3	<5.0	<2.0
	6/18/2009	**23.2**	<5.0	<5.0	<5.0	<5.0	<2.0
	8/6/2009	**84.8**	<5.0	66.9	<5.0	<5.0	**35.2**
	11/3/2009	**12.6**	<5.0	**211**	8.9	<5.0	**2,720**
	2/3/2010	<5.0	<5.0	**176**	10.1	<5.0	**1,790**
	4/21/2010	**15.3**	<5.0	**165**	7.1	<5.0	**1,660**
	7/22/2010	**40.9**	<5.0	22.4	<5.0	<5.0	**8.1**
	10/14/2010	<5.0	<5.0	69.1	<5.0	<5.0	**1,100**
	1/19/2011	<5.0	<5.0	14.7	<5.0	<5.0	**215**
	5/5/2011	**22.2**	<5.0	<5.0	<5.0	<5.0	<2.0
	7/27/2011	**36.7**	<5.0	17.1	<5.0	<5.0	**150**
	10/21/2011	**18.7**	<5.0	20.6	<5.0	<5.0	**59**
	2/15/2012	**23.8**	<5.0	6.0	<5.0	<5.0	**21**
	4/24/2012	**11.9**	<5.0	10.6	<5.0	<5.0	**45.3**
MMW-C-02S*	11/20/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	3/17/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/18/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	8/6/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	11/3/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	2/3/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	7/22/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	10/13/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	1/19/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/30/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	7/27/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	10/18/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	2/15/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/24/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-P-11S	9/9/2011	**76.1**	<5.0	5.9	<5.0	<5.0	**9.1**
	10/24/2011	**592**	<5.0	<5.0	<5.0	<5.0	**2.5**
	2/15/2012	**658**	<5.0	<5.0	<5.0	<5.0	**2.3**
	5/1/2012	**351**	<5.0	9.1	<5.0	<5.0	**8.5**
MMW-P-13S	9/9/2011	<5.0	<5.0	<5.0	<5.0	<5.0	**8.3**
	10/24/2011	<5.0	<5.0	<5.0	<5.0	<5.0	**19.8**
	2/16/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/26/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-P-14S	2/16/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/26/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
Deep Wells							
MMW-C-02D*	2/15/2012	<5.0	<5.0	<5.0	<5.0	<5.0	**30.7**
	4/26/2012	<5.0	<5.0	<5.0	<5.0	<5.0	**55.1**
MMW-P-11DR	2/15/2012	<5.0	<5.0	8.4	<5.0	<5.0	**95.1**
	5/1/2012	<5.0	<5.0	8.5	<5.0	<5.0	**102**
MMW-P-13D	9/9/2011	<5.0	<5.0	<5.0	<5.0	<5.0	**139**
	10/24/2011	<5.0	<5.0	<5.0	<5.0	<5.0	**116**
	2/16/2012	<5.0	<5.0	<5.0	<5.0	<5.0	**155**
	4/26/2012	<5.0	<5.0	<5.0	<5.0	<5.0	**132**
MMW-P-14D	2/16/2012	<5.0	<5.0	<5.0	<5.0	<5.0	**49.6**
	4/26/2012	<5.0	<5.0	<5.0	<5.0	<5.0	**49.5**

Notes:

All Values Over IDEM RISC Default Industrial Cleanup Level in **RED**.

All Values Over IDEM RISC Default Residential Cleanup Level in **BLUE**.

PCE = Tetrachloroethene; TCE = Trichloroethene; cis-1,2-DCE = cis-1,2-Dichloroethene; trans-1,2-DCE = trans-1,2-Dichloroethene.

Green Shading indicates areas that appear to be undergoing reductive dechlorination due to CAP-18 Injections.

"J" desgination indicates concentration was estimated due to high concentration of one parameter requiring dilution on other parameter quantitations.

All analytical results presented in micrograms per liter (ug/L).

*MMW-C-02 is now known as MMW-C-02S and MMW-C-02D is a new well.

Table 5

Monitoring Well Cumulative Enhanced Anaerobic Bioremediation-
MNA Indicator Parameters
2nd Quarter 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	pH	Dissolved Oxygen	Oxidation Reduction Potential	Conductivity	Nitrogen, Nitrate	Nitrogen, Nitrite	Iron	Total Organic Carbon	Sulfate	Acetic Acid	Butyric Acid	Hexanoic Acid	i-Hexanoic Acid	i-Pentanoic Acid	Lactic Acid and HIBA	Pentanoic Acid	Propionic Acid	Pyruvic Acid	Ethane	Ethene	Methane
		-	ug/L	mV	uS/cm	mg/L														ug/l		
		FIELD MEASUREMENTS				LAB RESULTS																
MMW-1S	2/22/2007	8.00	4,800	290	920.0																	
	9/19/2007	7.20	3,100	240	1100.0																	
	12/13/2007		6,400	430	910.0																	
	3/21/2008		1,650	230	3752.6	8.3				37.5												
	6/3 & 6/6/2008		1,286		3346.1	2.5				36.6	9.0	0.14	0.35	<0.10	<0.070	0.35	<0.070	1.4	<0.070	<0.025	<0.025	270
	9/11/2008					5.8				95.0												
	11/20/2008	6.80	824	533	3044.0	<0.10				71.3												
	3/16/2009	6.70	4,879	484	2794.0	7.3				67.6												
	6/16/2009					9.3				42.8												
	8/5/2009					<0.10				150												
	11/2/2009	6.68	1,900	-28	1235.4	<0.10				12.4										0.12	0.18	14,000
	2/3/2010	6.68	5,359	-47	1163.7	<0.10				13.3										0.086	0.10	18,000
	4/22/2010	6.78	2,753	-43	1309.1	9.6				33.6												
	7/21 & 7/22/2010	6.56	2,413	18	1543.3	5.6				51.4												
	10/12/2010	6.61	5,576	-229	1518.3	<0.10				60.0												
	1/19/2011	6.84	2,245		1190.3	<0.10				76.4	<0.070	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15			
	5/4/2011	6.77	2,771	-79	1258.1	19.3	<0.10	0.0	1.8	35.0	0.12	<0.050	<0.050	<0.050	<0.15	0.38	<0.070	0.072	<0.15	<0.025	0.048	12.0
	7/28/2011	6.56	730	-179	1474.0	<0.10	<0.10	0.0	3.1	96.0	0.25	0.092	<0.050	<0.050	<0.15	0.87	<0.070	0.068	<0.15	<0.025	0.160	9,000
	10/19/2011	6.76	170	-60	1172.0	<0.10	<0.10	2.3	1.7	56.2	0.083	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	0.064	<0.15	0.029	0.280	13,000
	2/14/2012	6.78	2,024	71	1066.0	45.0	<0.80	0.0	2.6	40.8	0.010 J	<0.050	<0.050	<0.050	<0.15	0.067 J	<0.070	<0.050	<0.15	0.039	0.099	200
	4/25/2012	6.62	341	30	1198.0	19.9	<0.40	0.0	2.6	51.0	0.042 J	<0.050	<0.050	0.910	<0.15	0.14	<0.070	<0.050	<0.15	0.011J	2.5	9,000
*MMW-2S	6/2/2008	7.03			867.7																	
	4/22/2010	7.16	7,865	107	786.4																	
	4/30/2011	7.29	9,482	21	619.5																	
	4/23/2012	7.19	5,290	61	694.0																	
*MMW-3S	6/6/2008	7.02	505		2673.1																	
	4/20/2010	7.21	454	75	932.6																	
	5/4/2011	7.17	587	-228	892.3																	
	4/23/2012	7.15	1,018	-54	893.3																	
*MMW-4D	6/2/2008	6.95	153		1541.2																	
	4/20/2010	7.06	379	0	1209.8																	
	4/29/2011	7.07	764	-104	1227.6																	
	2/14/2012	7.08	595	-71	1117.0																	
	4/23/2012	7.15	242	-110	1290.0																	
*MMW-5D	6/2/2008	7.14			1090.6																	
	4/20/2010	7.13	304	126	1064.0																	
	4/29/2011	7.31	266	-233	1472.3																	
	4/23/2012	7.53	243	-116	667.8																	
*MMW-6D	6/6/2008	7.42	514		2907.3																	
	4/20/2010	7.41	362	51	1060.9																	
	4/29/2011	7.32	142	-251	1238.8																	
	2/14/2012	7.19	671	-34	697.9																	
	4/23/2012	7.45	95	-100	733.1																	
*MMW-7S	6/6/2008	6.38	441		3119.3																	
	4/20/2010	6.84	637	200	1013.2																	
	5/4/2011	6.85	1,321	-205	1080.1																	
	4/26/2012	7.14	36	-114	632.9																	
MMW-8S	9/19/2007	7.70	2,300	-43	780.0																	
	12/13/2007	6.00		220	1.5																	
	3/20/2008		180		0.3																	
	6/6/2008		1,271		3385.2																	
	11/20/2008	7.05	487	515	2761.4																	
	3/16/2009	6.58	2,188	698	2647.0																	
	8/5/2009	7.08	2,439	-160	1024.3																	
	11/2/2009	7.02	1,805	-71	955.4																	
	2/3/2010	7.00	4,638	-49	840.9																	
	4/22/2010	7.06	1,303	-47	891.8																	
	7/21/2010	6.95	1,709	-32	995.1																	
	10/12/2010	7.06	124	-274	879.8																	
	1/19/2011	6.71	969		1002.3																	
	4/30/2011	6.83	200	-164	1905.7	16.3	<0.40	2.5	2.2	108	0.10	<0.050	<0.050	<0.050	<0.15	0.22	<0.070	0.065	<0.15	0.07	33.0	7,600
	7/28/2011	6.58	2,202	-47	2259.3	<0.10	<0.10	3.5	1.1	227	<0.070	<0.050	<0.050	<0.050	<0.15	0.20	<0.070	<0.050	<0.15	0.16	26.0	8,500
	10/24/2011	7.01	190	-90	1016.0	<0.10	<0.10	3.8	1.4	250	<0.070	<0.050	<0.050	<0.050	<0.15	0.45	<0.070	<0.050	<0.15	0.18	78.0	20,000
	2/14/2012	7.00	140	-106	970.1	<0.10	<0.10	5.1	1.6	213	0.017 J	<0.050	<0.050	<0.050	<0.15	0.030 J	<0.070	<0.050	<0.15	0.10	27	14,000
	4/25/2012	6.93	90	-200	986.5	<0.10	<0.10	5.0	1.6	152	0.037 J	0.054	<0.050	<0.050	<0.15	0.096 J	<0.070	<0.050	<0.15	0.094	28	12,000

Table 5

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2nd Quarter 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	pH	Dissolved Oxygen	Oxidation Reduction Potential	Conductivity	Nitrogen, Nitrate	Nitrogen, Nitrite	Iron	Total Organic Carbon	Sulfate	Acetic Acid	Butyric Acid	Hexanoic Acid	i-Hexanoic Acid	i-Pentanoic Acid	Lactic Acid and HIBA	Pentanoic Acid	Propionic Acid	Pyruvic Acid	Ethane	Ethene	Methane
		-	ug/L	mV	uS/cm							mg/L									ug/l	
		FIELD MEASUREMENTS				LAB RESULTS																
MMW-9S	9/20/2007	7.70	3,000	260	1500.0																	
	12/12/2007		9,300	180	1300.0																	
	3/21/2008		44	918	5173.4					230												
	6/6/2008	6.86			1223.7	<0.10				154	3.0	<0.070	<0.10	<0.10	<0.070	0.28	<0.070	1.1	0.22	0.10	0.48	4,400
	9/11/2008					<0.10				152												
	11/20/2008	6.49	419	558	4141.3	<0.10				98.5												
	3/16/2009	6.77	4,601	222	3678.1	<0.10				74.2												
	6/16/2009				12.0	<0.10				237												
	8/5/2009					<0.10				208												
	11/2/2009	6.56	1,861	35	1396.4	<0.10				135										0.13	160	6,200
	2/5/2010	6.55	5,596	11	1372.2	<0.10				116										0.12	150	9,400
	2/4/2010																					
	4/22/2010	6.57	1,456	-61	2012.4	<0.10				94.0												
	7/21/2010	6.58	3,403	-60	1485.9	<0.10				125												
	10/12/2010	6.56	564	-308	1540.1	<0.10				122												
	1/19/2011	6.90	2,815		1500.3	0.22				83.2	<0.070	<0.050	<0.050	<0.050	<0.15	0.21 B	<0.070	<0.050	<0.15			
	5/4/2011	6.69	235	-255	1878.6	<0.10	<0.10	6.0	3.8	189	0.094	<0.050	<0.050	<0.050	<0.15	0.34	<0.070	0.06	<0.15	1.5	82.0	12,000
	7/27/2011	6.52	434	-187	1835.3	<0.10	<0.10	3.2	1.7	217	<0.070	<0.050	<0.050	<0.050	<0.15	0.27	<0.070	<0.050	<0.15	1.6	48.0	16,000
	10/24/2011	6.62	180	-40	2035.0	<0.10	<0.10	2.3	2.6	164	0.078	<0.050	<0.050	<0.050	<0.15	0.15	<0.070	0.075	<0.15	22.0	1.9	7,000
	2/13/2012	6.67	103	-180	1671.0	<0.10	0.14	3.8	4.4	125	0.013 J	<0.050	<0.050	<0.050	<0.15	0.034 J	<0.070	<0.050	<0.15	2.0	65.0	12,000
	4/25/2012	6.64	123	-160	1864.0	<0.10	<0.10	3.0	3.8	176	0.052 J	<0.050	<0.050	<0.050	<0.15	0.13	<0.070	0.016 J	<0.15	2.0	36	7,400
MMW-10S	9/19/2007	7.40	1,900	260	1400.0																	
	12/12/2007		6,000	250	1300.0																	
	3/21/2008		109		5514.0																	
	6/6/2008	6.70	230		1604.6																	
	9/10/2008	6.46	308		4517.3																	
	11/20/2008	6.61	545	585	4320.5																	
	3/16/2009	6.93	5,003	159	3510.4																	
	11/2/2009	6.64	1,970	-15	1683.6																	
	2/3/2010	6.63	5,474	-43	1547.1																	
	4/22/2010	6.61	1,396	-91	1835.1																	
	7/20/2010	6.62	2,423	-56	1806.6																	
	10/12/2010	6.64	951	-261	1852.2																	
	1/19/2011	6.91	2,654		1523.3																	
	5/4/2011	6.67	243	-247	1630.2	<0.10	<0.10	4.5	3.0	368	0.083	<0.070	<0.10	<0.10	<0.070	0.40	<0.070	0.063	<0.15	0.028	14.0	9,700
	7/27/2011	6.58	513	-158	1,734.6	<0.10	<0.10	3.0	3.4	414	<0.070	<0.070	<0.10	<0.10	0.150	0.28	<0.070	0.049	<0.15	0.15	29.0	13,000
	10/19/2011	6.73	200	-70	1,646.0	<0.10	<0.10	2.9	2.6	130	<0.070	<0.070	<0.10	<0.10	<0.070	0.12	<0.070	0.069	<0.15	0.084	12.0	10,000
	2/14/2012	6.71	169	-81	1,730.0	<0.10	<0.10	4.9	4.3	285	0.016 J	<0.070	<0.050	<0.050	<0.15	0.034 J	<0.070	<0.050	<0.15	0.11	21	12,000
	4/24/2012	6.77	238	-118	1,884.0	<0.10	<0.10	4.5	4.7	408	0.50	<0.05	<0.050	<0.050	<0.15	0.090 J	<0.070	0.082	<0.15	0.15	32	12,000
MMW-11S	9/19/2007	7.60	2,300	220	880.0																	
	12/13/2007			390	720.0																	
	3/20/2008		200		3617.6					93.6												
	6/5 & 6/6/2008	7.13			723.8	<0.10				87.5	0.19	<0.070	<0.10	<0.10	<0.070	0.23	<0.070	<0.070	<0.070	0.26	0.21	18.0
	9/10 & 9/11/2008	6.83	338		0.3	<0.10				147												
	11/20/2008	6.99	782	518	2954.9	<0.10				138												
	3/16/2009	6.57	2,540	738	2887.2	5.6				187												
	6/16/2009					<0.10				202												
	8/5/2009	6.95	2,457	127	951.5	<0.10				176												
	11/2/2009	6.89	1,847	40	981.8	1.2				159										0.035	0.044	2.9
	2/3/2010	6.91	4,936	-24	1043.2	3.6				159										0.013	0.026	0.26
	4/22/2010	7.03	1,807	103	959.6	4.1				192												
	7/21 & 7/22/2010	6.97	1,751	50	1037.3	0.20				216												
	10/12/2010	6.95	301	-217	954.2	0.48				108												
	1/19/2011	6.70	305		975.5	5.1				173	<0.070	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15			
	4/30/2011	7.16	4,373	-30	850.1																	
	7/26/2011	6.87	250	-169	764.5																	
	10/21/2011	7.00	260	140	1108.0																	
	2/14/2012	7.03	1,601	70	997.1																	
	4/24/2012	7.11	567	66	858.0																	
MMW-11D	3/16/2009	6.61	2,969	715	2745.4																	
	8/5/2009	7.06	2,358	41	830.1																	
	11/2/2009	7.01	2,495	-23	889.3																	
	2/5/2010	6.94	4,812	-1	939.2																	
	4/22/2010	7.02	1,325	96	945.6																	
	7/21/2010	7.00	1,820	36	960.9																	
	10/12/2010	7.02	209	-221	954.0																	
	1/19/2011	6.69	292		885.7																	
	4/30/2011	7.04	349	-123	906.1																	
	7/26/2011	6.82	394	-156	689.5																	
	10/21/2011	7.10	200	0	917.0																	
	2/14/2012	7.03	266	40	997.5																	
	4/24/2012	7.11	2,467	84	959.7																	

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Well ID	Sample Date	pH	Dissolved Oxygen	Oxidation Reduction Potential	Conductivity	Nitrogen, Nitrate	Nitrogen, Nitrite	Iron	Total Organic Carbon	Sulfate	Acetic Acid	Butyric Acid	Hexanoic Acid	i-Hexanoic Acid	i-Pentanoic Acid	Lactic Acid and HIBA	Pentanoic Acid	Propionic Acid	Pyruvic Acid	Ethane	Ethene	Methane
		-	ug/L	mV	uS/cm							mg/L									ug/l	
		FIELD MEASUREMENTS				LAB RESULTS																
MMW-12S	3/16/2009	6.62	4,079	606	2817.7																	
	11/2/2009	6.93	1,885	116	948.2																	
	2/3/2010	6.80	5,624	251	1038.5																	
	4/20/2010	6.99	234	170	1046.2																	
	7/20/2010	7.00	10,359	160	932.5																	
	10/12/2010	6.92	349	-155	1026.0																	
	1/18/2011	6.57	640		1050.5																	
	4/30/2011	6.92	296	-118	1075.0																	
	7/26/2011	6.76	400	-114	1006.6																	
	10/18/2011	6.50	180	220	1063.0																	
	2/14/2012	6.95	352	57	1089.0																	
	4/23/2012	7.02	74	76	1105.0																	
MMW-13D	3/16/2009	6.58	3,463	662	2420.6																	
	8/5/2009	7.20	2,502	-49	867.0																	
	11/2/2009	7.24	1,790	-61	664.9																	
	2/5/2010	7.21	5,090	-75	700.2																	
	4/22/2010	7.08	1,743	-55	828.3																	
	7/20/2010	7.17	1,906	-38	823.8																	
	10/12/2010	7.27	116	-255	759.8																	
	1/19/2011	6.64	230		697.0																	
	4/30/2011	7.18	340	-128	877.9																	
	7/26/2011	7.03	1,428	-204	913.7																	
	10/18/2011	7.28	180	-100	789.9																	
	2/14/2012	7.23	135	-82	814.1																	
	4/24/2012	7.25	169	-60	904.3																	
MMW-14D	3/21/2008		78	895	5197.5																	
	6/5/2008	7.08			1003.5																	
	9/11/2008	6.95	14		0.4																	
	11/19/2008	6.90	1,070																			
	3/18/2009	6.71	850	780	2190.7																	
	8/5/2009	7.14	2,440	-83	763.8																	
	11/2/2009	7.10	1,820	1	782.7																	
	2/3/2010	7.01	5,793	303	779.2																	
	4/20/2010	7.14	231	111	750.8																	
	7/20/2010	7.13	4,430	-55	803.6																	
	10/12/2010	7.13	221	-224	820.2																	
	1/18/2011	6.67	247		812.7																	
	4/30/2011	7.16	397	-150	738.4																	
	7/26/2011	6.96	262	-183	827.0																	
	10/19/2011	6.78	240	-50	844.7																	
	2/14/2012	7.16	793	-62	815.2																	
	4/23/2012	7.24	437	-93	8.0																	
MMW-15S	2/15/2012	7.09	426	38	935.4																	
	4/26/2012	7.33	126	-13	804.3																	
MMW-15D	2/15/2012	7.33	422	-94	998.1																	
	4/26/2012	7.00	1,384	-6	920.5																	
MMW-P-01	3/20/2008		21		5619.1																	
	6/7/2008		1,252		0.4																	
	11/19/2008	6.72	221																			
	3/17/2009	6.79	929	468	3419.4																	
	11/3/2009	6.74	1,774	-48	1824.2																	
	2/4/2010	6.87	697	-132	1530.4																	
	4/22/2010	7.07	1,376	-255	1493.8																	
	7/7/2010										2.5	<0.05	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15			
	7/21/2010	6.78	2,113	-130	1421.3																	
	10/14/2010	6.76	203	-164	1382.5																	
	1/20/2011	6.79	1,354		1609.8																	
	5/5/2011	6.68	1,003	-176	1977.6	1.9	0.15	2.4	6.3	285	0.10	<0.070	<0.10	<0.10	<0.070	0.45	<0.070	0.071	<0.15	0.12	240	3,000
	7/28/2011	6.70	628	-161	1508.8	<0.10	<0.10	3.2	3.4	145	<0.070	<0.050	<0.050	<0.050	<0.15	0.28	<0.070	0.050	<0.15	0.76	670	13,000
	10/24/2011	6.76	120	-90	1694.0	<0.10	<0.10	5.0	2.6	81.5	1.0	<0.050	<0.050	<0.050	<0.15	0.82	<0.070	0.088	<0.15	0.72	1,600	12,000
	2/13/2012	6.77	89	-200	1737.0	<0.10	<0.10	2.9	3.8	56.0	0.021 J	<0.050	<0.050	<0.050	<0.15	0.047 J	<0.070	<0.050	<0.15	0.65	1,700	14,000
	4/25/2012	6.71	49	-205	1698.0	<0.10	<0.10	4.25	3.3	80.0	0.044 J	<0.050	<0.050	<0.050	<0.15	0.086 J	<0.070	<0.050	<0.15	0.6	1,300	13,000
MMW-P-02	3/20/2008		155		4637.4																	
	6/7/2008		1,180		4112.8																	
	9/11/2008	6.88	101		0.3																	
	11/19/2008	6.85	574																			
	3/17/2009	6.70	852	858	3641.0																	
	11/3/2009	6.97	2,066	98	1006.2																	
	2/4/2010	6.82	693	272	1324.1																	
	4/22/2010	6.99	148	256	1346.3																	
	7/21/2010	6.92	1,806	-10	1121.8																	
	10/13/2010	6.92	281	-209	1089.7																	
	1/19/2011	6.74	1,617		1256.8																	
	5/4/2011	6.92	321	-245	1263.9	<0.10	<0.10	1.8	1.7	33.2	0.13	<0.070	<0.10	<0.10	<0.070	0.32	<0.070	0.076	<0.15	1.1	1,600	17,000
	7/27/2011	6.86	322	-225	1083.8	<0.10	<0.10	2.5	1.0	190	<0.070	<0.050	<0.050	<0.050	<0.150	0.28	<0.070	<0.050	<0.15	1.2	240	4,300
	10/19/2011	6.93	210	-50	1174.0	<0.10	<0.10	2.2	1.4	84.2	0.08	<0.050	<0.050	<0.050	<0.150	0.44	<0.070	0.069	<0.15	1.4	670	13,000
	2/13/2012	6.78	1055	-5	1285.0	0.12	<0.10	3.0	3.3	85.5	0.43	<0.050	<0.050	<0.050	<0.150	0.027 J	<0.070	<0.050	<0.15	1.4	140	12,000
	4/25/2012	6.84	75	-179	1437.0	<0.10	<0.10	2.9	2.1	105	0.039 J	<0.050	<0.050	<0.050	<0.150	0.16	<0.070	<0.050	<0.15	1.6	180	13,000

Table 5

Monitoring Well Cumulative Enhanced Anaerobic Bioremediation-
MNA Indicator Parameters
2nd Quarter 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	pH	Dissolved Oxygen	Oxidation Reduction Potential	Conductivity	Nitrogen, Nitrate	Nitrogen, Nitrite	Iron	Total Organic Carbon	Sulfate	Acetic Acid	Butyric Acid	Hexanoic Acid	i-Hexanoic Acid	i-Pentanoic Acid	Lactic Acid and HIBA	Pentanoic Acid	Propionic Acid	Pyruvic Acid	Ethane	Ethene	Methane
		-	ug/L	mV	uS/cm	mg/L														ug/l		
		FIELD MEASUREMENTS				LAB RESULTS																
MMW-P-03S	3/20/2008				5093.3					86.8												
	6/5, 6/6 & 6/7/2008		1,176		4004.7	<0.10				84.9	31.0	0.45	0.14	<0.10	0.12	1.400	1.200	31.0	0.37	5.3	0.82	59.0
	9/11/2008					<0.10				117												
	11/19/2008	6.84	127			<0.10				43.8												
	3/17/2009	6.66	812	809	3372.1	<0.10				42.1												
	6/17/2009					<0.10				<5.0												
	8/6/2009					<0.10				9.4												
	11/3/2009	6.91	1,783	-81	1162.9	<0.10				8.1										2.1	7.1	17,000
	2/3 & 2/4/2010	6.85	751	-63	1303.5	<0.10				38.4										0.63	11.0	18,000
	4/22/2010	6.92	170	-63	970.5	<0.10				18.8												
	7/21/2010	6.75	2,016	-72	1300.2	<0.10				<5.0												
	10/13/2010	6.88	270	-274	1333.0	<0.10				21.4												
	1/19/2011	6.77	1,417		905.3																	
	5/4/2011	6.83	234	-287	1227.4	<0.10	<0.10	2.8	4.2	<5.0	4.1	<0.070	<0.10	<0.10	<0.070	0.37	<0.070	0.23	<0.15	9.6	410	21,000
	7/27/2011	6.75	412	-175	1290.2	<0.10	<0.10	5.0	2.3	51.4	0.06	<0.050	<0.050	<0.050	<0.150	0.31	<0.070	0.051	<0.15	0.8	1,200	14,000
	10/19/2011	6.84	190	-90	1416.0	<0.10	<0.10	3.2	2.0	35.5	0.08	<0.050	<0.050	<0.050	<0.150	0.34	<0.070	0.071	<0.15	2.0	930	17,000
	2/13/2012	6.83	171	-44	924.0	<0.10	<0.10	2.5	2.9	39.8	0.25	<0.050	<0.050	<0.050	<0.150	0.045 J	<0.070	<0.050	<0.15	0.5	170	14,000
	4/25/2012	6.85	89	-226	971.7	<0.10	<0.10	2.0	2.4	46.8	0.078	<0.050	<0.050	<0.050	<0.150	0.14	<0.070	<0.050	<0.15	0.81	670	14,000
MMW-P-03D	3/20/2008		56		1718.8																	
	6/5 & 6/6/2008					<0.10				46.0	53.0	0.43	<0.10	<0.10	0.23	1.2	0.380	24.0	0.85	0.39	0.94	1,200
	9/11/2008					<0.10				22.3												
	11/19/2008					<0.10				<5.0												
	3/17/2009	6.65	806	757	3253.2	<0.10				<5.0												
	6/17/2009					<0.10				6.8												
	8/6/2009					<0.10				32.1												
	11/3/2009	6.83	1,791	-48	1406.3	<0.10				<5.0										2.2	4.8	17,000
	2/4/2010	6.67	661	64	1360.5	<0.10				<5.0										2.7	8.3	25,000
	4/22/2010	6.88	143	-16	1143.8	<0.10				<5.0												
	7/21/2010	6.81	2,235	-125	1084.8	<0.10				6.8												
	10/13/2010	6.73	269	-246	1358.0	<0.10				<5.0												
	1/19/2011	6.28	2,351		1149.7	<0.10				25.8	0.60	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15			
	5/4/2011	6.82	267	-294	1194.9	<0.10	<0.10	2.9	3.8	35.5	0.22	<0.070	<0.10	<0.10	<0.070	0.48	<0.070	0.084	<0.15	0.40	110	14,000
	7/27/2011	6.81	367	-192	1284.7	<0.10	<0.10	5.3	1.8	25.6	0.34	<0.050	<0.050	<0.050	<0.15	0.25	<0.070	0.067	<0.15	25.0	1,400	26,000
	10/18/2011	6.87	150	-150	1377.0	<0.10	<0.10	2.9	9.5	10.7	18.0	0.13	<0.050	<0.050	<0.15	<0.10	<0.070	1.0	<0.15	5.8	2,200	20,000
	2/13/2012	6.90	200	-26	1158.0	<0.10	<0.10	3.1	10.1	<5.0	18	0.092	<0.050	<0.050	0.084 J	0.46 J	<0.070	0.50	<0.15	5.0	2,400	24,000
	4/25/2012	6.81	51	-229	1374.0	<0.10	<0.10	3.2	25.0	<5.0	52	0.68	<0.050	<0.050	0.22	1.2	<0.070	1.0	0.055 J	8.4	2,400	24,000
MMW-P-04	3/20/2008		233		0.3																	
	6/5/2008	6.87			1416.9																	
	9/11/2008	7.03			0.5																	
	11/19/2008	6.96	811																			
	2/12/2010	6.89	1,005	199	827.4																	
	4/21/2010	6.95	237	-47	808.1																	
	7/22/2010	6.74	3,591	-40	964.2																	
	10/13/2010	6.68	869	-203	1025.3																	
	5/5/2011	7.07	1,389	-185	1036.9	1.2	0.18	0.0	43.0	26.9	2.3	0.10	0.64	0.24	<0.070	1.4	<0.070	0.46	<0.15	0.044	11.0	10,000
	7/28/2011	6.67	1,011	-174	1363.1	<0.10	<0.10	4.7	18.1	<0.10	2.4	0.22	<0.050	<0.050	<0.15	<1.0	<0.070	1.7	<0.15	0.44	570	18,000
	10/24/2011	6.87	520	-150	874.0	<0.10	<0.10		11.6	39.8	5.0	0.11	<0.050	<0.050	<0.15	0.3	<0.070	0.31	<0.15	1.7	26.0	18,000
	2/17/2012	6.81	990	-200	694.8	<0.10	<0.10	2.5	5.5	<5.0	1.6	0.072	<0.050	<0.050	<0.15	0.2	<0.070	0.33	<0.15	0.2	6.4	19,000
	5/1/2012	6.70	994	-202	769.2	<0.10	<0.10	2.1	4.2	15.4	1.4	0.053	<0.050	<0.050	<0.15	<1.0	<0.070	0.029 J	<0.15	0.1	3.2	19,000
MMW-P-05	3/20/2008				6086.2																	
	6/5/2008	6.86			1150.6																	
	9/11/2008	7.06			0.3																	
	11/19/2008	6.79	870	3,652																		
	3/17/2009	6.61	864	838	2669.5																	
	11/3/2009	6.98	1,842	-70	1036.9																	
	2/4/2010	6.98	724	-83	787.2																	
	4/22/2010	6.99	1,663	-26	1003.1																	
	7/21/2010	6.88	2,067	-80	1101.5																	
	10/13/2010	6.93	250	-240	917.8																	
	1/20/2011	6.69	174		987.9																	
	4/30/2011	6.99	209	-257	1036.9															0.025	58.0	9,900
	7/27/2011	6.80	607	-184	1436.7															0.23	1,300	15,000
	10/19/2011	7.11	230	-120	559.7															0.12	93.0	3,700
	2/13/2012	6.99	112	-286	822.8	<0.10	<0.10	1.9	19.0	59.5	4.2	0.066	<0.050	<0.050	0.055 J	<1.0	<0.070	0.26 J	<0.15	0.20	63	11,000
	4/25/2012	7.00	65	-251	734.1	<0.10	<0.10	3.0	3.8	46	0.3	<0.050	<0.050	<0.050	<0.15	0.15	<0.070	0.034 J	<0.15	0.20	51	7,200

Table 5

Monitoring Well Cumulative Enhanced Anaerobic Bioremediation-
MNA Indicator Parameters
2nd Quarter 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	pH	Dissolved Oxygen	Oxidation Reduction Potential	Conductivity	Nitrogen, Nitrate	Nitrogen, Nitrite	Iron	Total Organic Carbon	Sulfate	Acetic Acid	Butyric Acid	Hexanoic Acid	i-Hexanoic Acid	i-Pentanoic Acid	Lactic Acid and HIBA	Pentanoic Acid	Propionic Acid	Pyruvic Acid	Ethane	Ethene	Methane
		-	ug/L	mV	uS/cm	mg/L														ug/l		
		FIELD MEASUREMENTS				LAB RESULTS																
MMW-P-06	3/20 & 3/21/2008		29	900	4293.5					62.6												
	6/5 & 6/6/2008	7.07			980.4	<0.10				30.5	60.0	1.7	<0.10	<0.10	0.21	1.4	1.2	29.0	0.44	0.47	0.54	290
	9/11/2008	6.82			0.7	<0.10				39.1												
	11/19/2008	6.85	715			<0.10				130												
	3/17/2009	6.69	1,063	710	3884.4	<0.10				9.4												
	6/17/2009					<0.10				61.7												
	8/6/2009					<0.10				29.7												
	11/3/2009	6.89	1,631	-105	1276.4	<0.10				73.2										1.9	200	18,000
	2/4/2010	7.04	725	-86	927.1	<0.10				10.3										0.66	300	15,000
	4/22/2010	6.93	1,405	-106	1129.2	0.10				15.3												
	7/21/2010	6.96	2,001	-112	1448.3	<0.10				38.7												
	10/14/2010	6.94	162	-121	1194.9																	
	1/20/2011	6.80	1,062		1263.5	<0.10				65.8	<0.070	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15			
	5/4/2011	6.89	225	-296	1338.1															0.51	2,400	17,000
	7/28/2011	6.85	812	-198	1302.6															0.92	3,700	20,000
	10/24/2011	6.92	160	-90	1169.0															0.78	2,500	14,000
	2/13/2012	6.90	141	-213	1132.0	<0.10	<0.10	2.0	3.9	38.0	0.370	<0.050	<0.050	<0.050	<0.15	0.048 J	<0.070	<0.050	<0.15	0.87	1,800	17,000
	4/26/2012	6.64	71	-231	172.0	<0.10	<0.10	3.25	4.4	65.5	1.200	<0.050	<0.050	<0.050	<0.15	0.240	<0.070	0.031	<0.15	1.0	1,300	17,000
MMW-P-07	3/21/2008		9	937	6055.8																	
	6/7/2008		1,200		5032.7																	
	9/11/2008	6.74			0.7																	
	11/19/2008	6.53	846																			
	3/17/2009	6.83	880	745	4022.3																	
	11/3/2009	6.62	1,745	-72	2224.1																	
	2/4/2010	6.72	721	-92	1800.3																	
	4/22/2010	6.68	1,400	-154	1924.8																	
	7/22/2010	6.60	3,369	-55	1605.5																	
	10/14/2010	6.59	359	-148	2187.6																	
	1/20/2011	6.74	1,377		1347.0																	
	5/4/2011	6.67	349	-242	1632.1	<0.10	<0.10	3.0	3.9	97.5	2.0	<0.050	<0.050	<0.050	<0.15	0.50	<0.070	0.15	<0.15	0.049	520	6,000
	7/28/2011	8.33	765	-161	2098.5	<0.10	<0.10	3.8	4.0	33.1	3.9	0.14	<0.050	<0.050	<0.15	0.98	<0.070	0.23	<0.15	0.12	480	8,100
	10/24/2011	6.66	110	-60	1492.0	<0.10	<0.10	3.8	2.1	31.6	0.078	<0.050	<0.050	<0.050	<0.15	0.46	<0.070	0.071	<0.15	0.31	330	12,000
	2/13/2012	6.79	541	-167	1754.0	<0.10	<0.10	2.9	3.3	82.5	0.52	0.041 J	<0.050	<0.050	<0.15	0.023 J	<0.070	<0.050	<0.15	0.26	190	12,000
	4/25/2012	6.69	77	-209	1841.0	<0.10	<0.10	4.25	3.3	73.5	0.020 J	<0.050	<0.050	<0.050	<0.15	0.051 J	<0.070	<0.050	<0.15	0.28	360	8,900
MMW-P-08	3/20 & 3/21/2008	2.29	245		3645.7					129												
	6/5 & 6/6/2008	7.00			1118.2	0.12				<5.0	0.12	<0.070	<0.10	<0.10	<0.070	0.22	<0.070	<0.070	<0.070	0.30	2.0	2,800
	9/10 & 9/11/2008	7.29	467		0.3	<0.10				<5.0												
	11/19/2008	7.00	1,129			<0.10				7.2												
	3/17/2009	6.77	876	674	4083.5	<0.10				5.1												
	6/17/2009					<0.10				5.0												
	8/6/2009					<0.10				38.3												
	11/3/2009	6.52	1,676	-74	1547.6	<0.10				23.6										0.081	320	8,000
	2/4/2010	6.63	631	-86	1629.4					<5.0										0.075	640	17,000
	4/22/2010	6.74	1,408	-202	1804.3	<0.10				8.5												
	7/22/2010	6.79	3,994	-70	939.3	<0.10				34.0												
	10/14/2010	6.65	395	-175	1923.7	<0.10				<5.0												
	1/20/2011	6.79	1,907		1965.5	<0.10				21.0	19.0	0.27	<0.050	<0.050	<0.15	<0.10	<0.070	2.1	<0.15			
	5/4/2011	6.81	221	-272	920.7	<0.10	<0.10	3.0	6.2	44.5	0.16	0.10	<0.050	<0.050	<0.15	0.26	<0.070	0.077	<0.15	0.34	430	6,800
	7/27/2011	6.54	597	-146	2323.7	<0.10	<0.10	3.8	3.0	185	0.096	<0.050	<0.050	<0.050	<0.15	0.27	<0.070	<0.050	<0.15	0.098	500	8,400
	10/24/2011	6.68	110	-90	1308.0	<0.10	<0.10	2.8	2.9	59.0	0.10	<0.050	<0.050	<0.050	<0.15	0.16	<0.070	0.074	<0.15	0.28	210	3,200
	2/13/2012	6.68	81	-220	1663.0	<0.10	<0.10	2.9	5.5	52.0	0.040 J	<0.050	<0.050	<0.050	<0.15	0.020 J	<0.070	<0.050	<0.15	3.4	220	8,000
	4/25/2012	6.62	27	-224	1709.0	<0.10	<0.10	3.2	4.6	87.0	0.056 J	<0.050	<0.050	<0.050	<0.15	0.12	<0.070	<0.050	<0.15	11	170	12,000
MMW-P-09S	3/20/2008	2.49	230		3920.3	1.5				78.7												
	6/5 & 6/6/2008	6.97			963.6	5.1				161	3.5	<0.070	0.26	<0.10	<0.070	0.29	0.14	5.3	<0.070	0.033	<0.025	8.0
	9/10 & 9/11/2008	7.13	200		0.3	<0.10				114												
	11/19/2008	7.09	1,108			<0.10				133												
	3/17/2009	6.52	1,019	858	2249.3	0.72				82.4												
	6/16/2009					1.1				64.0												
	8/7/2009					0.60				45.7												
	11/3/2009	6.92	2,892	174	810.2	0.78				87.2										<0.025	0.037	6.5
	2/3 & 2/4/2010	6.94	3,997	-51	701.4	0.58				85.8										<0.025	<0.025	4.7
	4/22/2010	7.05	2,699	69	640.1	0.62				44.8												
	7/22/2010	7.00	5,477	27	1077.9	0.80				92.4												
	10/13/2010	6.89	1,026	-105	725.6	0.10				57.4												
	1/19/2011	6.56	1,732		711.5	0.10				106	<0.070	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15			
	4/30/2011	7.12	5,228	0	587.1																	
	7/26/2011	6.78	1,473	-85	882.4																	
	10/18/2011	6.90	760	160	850.9																	
	2/15/2012	6.95	2,621	164	786.3																	
	4/24/2012	7.08	1,364	30	708.7																	

Table 5

Monitoring Well Cumulative Enhanced Anaerobic Bioremediation-
MNA Indicator Parameters
2nd Quarter 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	pH	Dissolved Oxygen	Oxidation Reduction Potential	Conductivity	Nitrogen, Nitrate	Nitrogen, Nitrite	Iron	Total Organic Carbon	Sulfate	Acetic Acid	Butyric Acid	Hexanoic Acid	i-Hexanoic Acid	i-Pentanoic Acid	Lactic Acid and HIBA	Pentanoic Acid	Propionic Acid	Pyruvic Acid	Ethane	Ethene	Methane
		-	ug/L	mV	uS/cm	mg/L														ug/l		
		FIELD MEASUREMENTS				LAB RESULTS																
MMW-P-09D	3/20/2008	1.40	107		8894.3																	
	6/7/2008		443		3784.4																	
	11/19/2008	6.85	1,106		NS																	
	3/17/2009	6.57	819	834	2616.0																	
	11/3/2009	7.11	1,717	-59	897.8																	
	2/3/2010	7.10	4,243	-78	862.0																	
	4/22/2010	7.12	1,360	-64	884.7																	
	7/22/2010	7.18	3,702	-59	929.0																	
	10/13/2010	7.08	694	-282	903.0																	
	1/19/2011	6.12	1,079		788.7																	
	4/30/2011	7.17	347	-184	851.5																	
	7/26/2011	6.98	567	-198	919.1																	
	10/21/2011	7.17	200	-90	855.0																	
	2/15/2012	7.15	283	-103	830.4																	
	4/24/2012	7.24	254	-128	879.9																	
MMW-P-10S	3/20/2008	1.73			4589.7	0.52				50.8												
	6/5, 6/6 & 6/7/2008		1,078		3508.2	<0.10				71.8	0.11	<0.070	<0.10	<0.10	<0.070	0.21	<0.070	<0.070	<0.070	0.16	1.3	50.0
	9/11/2008	7.04	45		0.4	<0.10				111												
	11/19/2008	6.85	1,034			<0.10				34.4												
	3/17/2009	6.77	863	653	3958.2	<0.10				54.6												
	6/17/2009					<0.10				9.4												
	8/6/2009					<0.10				<5.0												
	11/3/2009	6.83	1,566	-112	705.5	<0.10				9.5										0.77	27.0	2,300
	2/4/2010	6.65	614	-93	1663.5	<0.10				69.2										1.7	230	14,000
	4/22/2010	6.97	1,564	-200	971.3	<0.10				15.8												
	7/21/2010	6.91	1,868	-105	900.8	<0.10				<5.0												
	10/14/2010	6.63	404	-154	1681.7	<0.10				85.8												
	1/20/2011	6.74	1,102		1009.0	0.12				29.2	4.7	0.15	<0.050	<0.050	<0.15	<0.10	<0.070	0.26	<0.15			
	5/5/2011	7.51	101	-341	329.6	<0.10	<0.10	1.8	2.7	17.6	0.16	<0.050	<0.050	<0.050	<0.15	0.37	<0.070	<0.050	<0.15	2.2	6.1	5,800
	7/27/2011	6.69	543	-170	1583.3	<0.10	<0.10	3.2	3.7	87.9	<0.070	<0.050	<0.050	<0.050	<0.15	0.21	<0.070	0.052	<0.15	1.4	120	13,000
	10/21/2011	6.90	110	-90	592.0	<0.10	<0.10	2.1	1.7	13.9	0.078	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	0.070	<0.15	1.8	22.0	4,300
	2/13/2012	6.90	112	-221	653.0	<0.10	<0.10	3.1	2.3	17.1	0.18	<0.050	<0.050	<0.050	<0.15	0.13	<0.070	<0.050	<0.15	2.8	15	9,000
	4/25/2012	6.86	45	-233	672.6	<0.10	<0.10	2.5	1.9	15.4	0.075	<0.050	<0.050	<0.050	<0.15	0.092 J	<0.070	<0.050	<0.15	4.0	30	10,000
MMW-P-10D	6/7/2008	1.71	1,134		4183.6																	
	3/17/2009	6.64	838	574	2733.7																	
	11/3/2009	6.80	1,699	-98	1104.1																	
	2/4/2010	6.78	619	-101	992.6																	
	4/22/2010	7.05	1,371	-192	857.0																	
	7/22/2010	6.83	2,694	-27	913.1																	
	10/14/2010	6.68	351	-165	1341.4																	
	1/20/2011	6.74	1,155		1338.7						0.072	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15			
	5/5/2011	7.08	160	-300	597.7	<0.10	<0.10	1.8	2.8	43.0	0.10	<0.050	<0.050	<0.050	<0.15	0.19	<0.070	0.071	<0.15	1.2	200	18,000
	7/27/2011	6.82	539	-162	1073.2	<0.10	<0.10	5.0	2.1	64.1	<0.070	<0.050	<0.050	<0.050	<0.15	0.26	<0.070	<0.050	<0.15	1.8	530	23,000
	10/21/2011	6.86	160	-80	1039.0	<0.10	<0.10	2.3	1.7	55.0	0.10	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	0.078	<0.15	1.3	580	20,000
	2/13/2012	6.75	210	-184	1233.0	<0.10	<0.10	3.75	3.7	112	0.014 J	0.036 J	<0.050	<0.050	<0.15	0.025 J	<0.070	0.011 J	<0.15	2.6	260	16,000
	4/25/2012	6.79	85	-221	1225.0	<0.10	<0.10	3.5	2.5	76.5	0.036 J	<0.050	<0.050	<0.050	<0.15	0.17	<0.070	<0.050	<0.15	1.7	190	23,000
MWW-P-11S	10/24/2011	6.97	490	-100	802.3	<0.10	<0.10	0.2	1.7	166	0.082	<0.050	<0.050	<0.050	<0.15	0.21	<0.070	0.070	<0.15	6.2	0.097	690
	2/15/2012	6.96	578	-58	913.2	0.60	<0.10	1.7	1.9	132	0.013 J	<0.050	<0.050	<0.050	<0.15	0.072 J	<0.070	<0.070	<0.15	0.15	2.8	1,600
	5/1/2012	6.94	353	-108	860.7	<0.10	<0.10	2.75	1.6	203	0.026 J	<0.050	<0.050	<0.050	<0.15	0.084 J	<0.070	0.014 J	<0.15	0.19	5.9	1,300
MMW-P-11DR	2/15/2012	7.02	134	-104	1244.0	<0.10	<0.10	3.8	2.0	275	0.031 J	<0.050	<0.050	<0.050	<0.15	0.040 J	<0.070	<0.070	<0.15	1.4	6.8	3,800
	5/1/2012	6.96	233	-97	1269.0	<0.10	<0.10		1.9	275	0.024 J	<0.050	<0.050	<0.050	<0.15	0.079 J	<0.070	<0.050	<0.15	1.1	7.4	1,000
MMW-P-12S	10/24/2011	7.05	240	-80	1106.0	<0.10	<0.10	2.1	1.4	156	<0.070	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	0.070	<0.15	1.3	0.83	24
	2/15/2012	7.07	267	-76	1092.0	<0.10	<0.10	3.0	1.7	162	0.010 J	<0.050	<0.050	<0.050	<0.15	0.27	<0.070	<0.070	<0.15	0.92	0.65	94
	5/1/2012	6.97	76	-121	1173.0	<0.10	<0.10		1.6	176	0.026 J	<0.050	<0.050	<0.050	<0.15	0.093 J	<0.070	<0.050	<0.15	0.66	0.26	28
MMW-P-12D	10/24/2011	7.17	210	-100	1070.0	<0.10	<0.10	2.1	1.9	124	0.22	<0.050	<0.050	<0.050	<0.15	1.2	<0.070	0.13	<0.15	1.5	0.77	26
	2/15/2012	7.11	216	-94	1227.0	<0.10	<0.10	2.0	1.9	164	0.0075 J	<0.050	<0.050	<0.050	<0.15	0.040 J	<0.070	<0.070	<0.15	1.2	0.7	18
	5/1/2012	7.03	106	-214	1323.0	<0.10	<0.10	2.5	1.8	135	0.022 J	0.041 J	<0.050	<0.050	<0.15	0.089 J	<0.070	0.014 J	<0.15	1.1	0.66	24
MMW-P-13S	10/24/2011	7.03	1,350	70	925.3	0.75	<0.10	0.0	1.4	195	0.09	<0.050	<0.050	<0.050	<0.15	0.34	<0.070	0.070	<0.15	0.18	0.18	3.8
	2/16/2012	7.02	8,885	171	550.3																	
	4/26/2012	7.06	8,078	80	566.0																	
MMW-P-13D	10/24/2011	7.20	190	-110	909.0	<0.10	<0.10	3.5	1.8	131	0.08	<0.050	<0.050	<0.050	<0.15	0.26	<0.070	<0.050	<0.15	2.0	1.3	20.0
	2/16/2012	7.17	176	-95	8450.7																	
	4/26/2012	7.13	105	-83	871.0																	
MMW-P-14S	2/16/2012	6.91	2,166	85	822.1																	
	4/26/2012	6.87	1,885	83	1242.0																	
MMW-P-14D	2/16/2012	7.07	384	-49	1074.0																	
	4/26/2012	7.02	88	-50	1114.0																	
MW-165D	7/7/2010										<0.070	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15			
*MW-167S	4/21/2010	6.93	173	102	1212.3																	
	4/29/2011	7.10	7,894	75	916.5																	
	5/2/2012	6.82	168	-106	1626.0																	
*MW-167D	6/7/2008	0.08	454		2800.6																	
	4/21/2010	7.22	163	64	803.3																	
	4/29/2011	7.14	251	-116	910.1																	
	2/16/2012	7.14	142	-88	995.8																	
	5/2/2012	7.14	45	-78	855.8																	

Table 5

Monitoring Well Cumulative Enhanced Anaerobic Bioremediation-
MNA Indicator Parameters
2nd Quarter 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	pH	Dissolved Oxygen	Oxidation Reduction Potential	Conductivity	Nitrogen, Nitrate	Nitrogen, Nitrite	Iron	Total Organic Carbon	Sulfate	Acetic Acid	Butyric Acid	Hexanoic Acid	i-Hexanoic Acid	i-Pentanoic Acid	Lactic Acid and HIBA	Pentanoic Acid	Propionic Acid	Pyruvic Acid	Ethane	Ethene	Methane
		-	ug/L	mV	uS/cm							mg/L									ug/l	
		FIELD MEASUREMENTS				LAB RESULTS																
MW-168S	3/20/2008					2.2				251												
	6/5 & 6/6/2008	6.76			1395.0	5.8				190	0.12	<0.070	<0.10	<0.10	<0.070	0.21	<0.070	<0.070	<0.070	0.052	<0.025	17.0
	9/11/2008					1.1				6.8												
	4/22/2010					<0.10				140												
	4/25/2012	Insufficient water to sample																				
MW-168D	3/20/2008									109												
	6/5/2008	6.92			1283.4	<0.10				31.0												
	9/11/2008									114												
	11/20/2008	6.88	530	504	3318.8	<0.10				39.3												
	3/17/2009	6.64	871	795	2948.1	<0.10				43.0												
	6/18/2009					<0.10				50.5												
	8/7/2009					<0.10																
	11/3 & 11/4/2009	6.77	7,162	-107	1070.8	<0.10				59.4										0.55	22.0	16,000
	2/4/2010	6.87	469	-74	941.8	<0.10				50.8										0.41	11.0	15,000
	4/21/2010	6.86	190	53	1128.5	<0.10				79.7												
	7/22/2010	6.94	4,678	-53	1194.6	<0.10				82.2												
	10/13/2010	6.77	350	-230	1184.4	<0.10				60.8												
	4/29/2011	6.93	206	-199	1056.7																	
	7/28/2011	6.75	528	-163	1476.1																	
	10/24/2011	6.87	200	-100	1209.0																	
	2/17/2012	6.89	136	-174	1131.0																	
	5/2/2012	6.79	27	-179	1383.0																	
*MW-169S	4/21/2010	7.05	228	-49	848.4																	
	4/29/2011	6.91	3,567	19	975.4																	
	5/2/2012	Insufficient water to sample																				
*MW-169D	6/7/2008		636		3354.6																	
	4/21/2010	7.13	207	-53	783.5																	
	4/29/2011	7.04	232	-177	880.0																	
	5/2/2012	7.00	87	-148	1062.0																	
*MW-170S	6/3/2008	7.09	187		1437.8																	
	4/21/2010	7.02	162	90	1489.9																	
	4/29/2011	6.99	486	-44	1241.0																	
	2/16/2012	6.93	483	79	1718.0																	
	5/2/2012	6.93	768	118	1488.0																	
*MW-170D	6/3/2008		7		969.5																	
	7/7/2010										<0.070	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15			
	4/21/2010	7.11	190	87	1148.6																	
	4/29/2011	7.12	282	-142	1039.7																	
	2/16/2012	7.02	243	-74	1898.0																	
	5/2/2012	7.00	82	-82	1587.0																	
*MW-171S	6/7/2008	7.21	626		2714.6																	
	4/29/2011	6.98	4,282	70	798.8																	
	5/2/2012	6.80	72	211	791.5																	
*MW-171D	6/7/2008	7.32	415		3178.5																	
	4/21/2010	7.07	171	16	846.3																	
	7/22/2010	7.05	4,607	-47	1001.9																	
	4/29/2011	7.01	377	-164	887.8																	
	5/2/2012	6.96	46	-174	891.3																	
MMW-C-01	9/10/2008	7.51	477		0.3																	
	11/20/2008	6.79	491	480	2907.9																	
	3/17/2009	6.57	770	693	2702.0																	
	11/3/2009	6.92	1,765	-100	983.5																	
	2/3/2010	6.94	3,818	-59	758.5																	
	4/21/2010	7.10	174	57	723.4																	
	7/22/2010	6.96	5,588	47	792.0																	
	10/13/2010	6.93	3,883	-29	834.6																	
	1/19/2011	6.77	1,522		741.5																	
	5/5/2011	7.41	9,253	-75	463.2	14.7	<0.40	0.0	<1.0	31.2	0.110	<0.050	<0.050	<0.050	<0.15	0.28	<0.070	<0.050	<0.15	<0.025	<0.025	0.14
	7/27/2011	6.80	707	-190	1156.7	0.79	<0.10	0.0	1.8	113	<0.070	<0.050	<0.050	<0.050	<0.15	0.26	<0.070	<0.050	<0.15	0.12	170	12,000
	10/21/2011	6.92	340	-30	756.5	0.79	<0.10	1.2	2.4	89.0	0.10	<0.050	<0.050	<0.050	<0.15	0.37	<0.070	0.066	<0.15	0.081	94	12,000
	2/15/2012	6.98	1,682	-31	780.0	7.7	<0.10	2.0	1.9	73.5	0.0073 J	<0.050	<0.050	<0.050	<0.15	0.034 J	<0.070	<0.050	<0.15	0.22	5.6	10,000
	4/24/2012	7.05	178	-54	791.4	<0.10	<0.10	2.75	2.2	71.0	0.034 J	<0.050	0.27	<0.050	<0.15	0.11	<0.070	<0.050	<0.15	0.20	24	12,000

Table 5

Monitoring Well Cumulative Enhanced Anaerobic Bioremediation-
MNA Indicator Parameters
2nd Quarter 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	pH	Dissolved Oxygen	Oxidation Reduction Potential	Conductivity	Nitrogen, Nitrate	Nitrogen, Nitrite	Iron	Total Organic Carbon	Sulfate	Acetic Acid	Butyric Acid	Hexanoic Acid	i-Hexanoic Acid	i-Pentanoic Acid	Lactic Acid and HIBA	Pentanoic Acid	Propionic Acid	Pyruvic Acid	Ethane	Ethene	Methane
		-	ug/L	mV	uS/cm							mg/L									ug/l	
		FIELD MEASUREMENTS				LAB RESULTS																
MMW-C-02S	11/20/2008	6.97	931	476	2806.7																	
	3/17/2009	6.55	811	867	2506.9																	
	11/38/09	6.80	1,811	24	784.9																	
	2/3/2010	6.77	3,782	76	778.9																	
	4/21/2010	6.92	177	202	786.3																	
	7/22/2010	6.88	2,670	30	755.8																	
	10/13/2010	6.80	212	-175	717.4																	
	1/19/2011	6.58	1,651		705.0	0.14				76.8	<0.070	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15			
	4/30/2011	6.89	3,184	-17	689.2																	
	7/27/2011	6.72	694	-146	811.9																	
	10/18/2011	6.82	180	80	779.9																	
	2/15/2012	6.83	156	27	747.9																	
	4/24/2012	6.92	212	17	738.5																	
MMW-C-02D	2/15/2012	7.03	165	-105	902.3																	
	4/26/2012	7.03	57	-158	809.9																	

Notes

Sampling locations outlined in **GREEN** have been identified as 'Indicator Compound Locations.' These locations will be sampled quarterly for VOCs, Nitrate/Nitrite, Sulfate, Methane, Ethane, Ethene, Volatile Fatty Acids and Ferrous Iron, beginning 2nd Quarter 2011.

Gray shading indicates that no data is available. Lack of data is generally due to equipment malfunction in the field or absence of the parameter from the quarterly sampling plan.

* Indicates sampling locations at the Site sampled on an **ANNUAL** basis. All other sampling locations are sampled quarterly.

J Estimated concentration greater than the set method detection limit (MDL) and less than the set reporting limit (RDL).

Table 6
Soil Analytical Results - 2nd Quarter 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Sample ID (Depth)	Date Sampled	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl chloride
		mg/kg				
IDEM 2012 RCG Direct Contact Industrial Screening Level		**26**	**20**	**2,000**	**690**	**17**
IDEM 2012 RCG Direct Contact Residential Screening Level		**7.7**	**6.2**	**220**	**210**	**0.84**
IDEM 2012 RCG Soil MTG Residential		**0.045**	**0.036**	**0.41**	**0.59**	**0.014**
MMW-C-16D (18-20')	6/4/2012	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046
MMW-C-16D (36-38')	6/5/2012	<0.0040	<0.0040	<0.0040	<0.0040	**0.0646**
DUP-1 (MMW-C-16D (36-38'))		<0.0038	<0.0038	<0.0038	<0.0038	**0.0782**
MMW-C-16D (40-42')	6/5/2012	<0.0034	<0.0034	<0.0034	<0.0034	<0.0034
MMW-C-17D (18-20')	6/5/2012	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043
MMW-C-17D (38.0-38.8')	6/5/2012	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042

FIGURES

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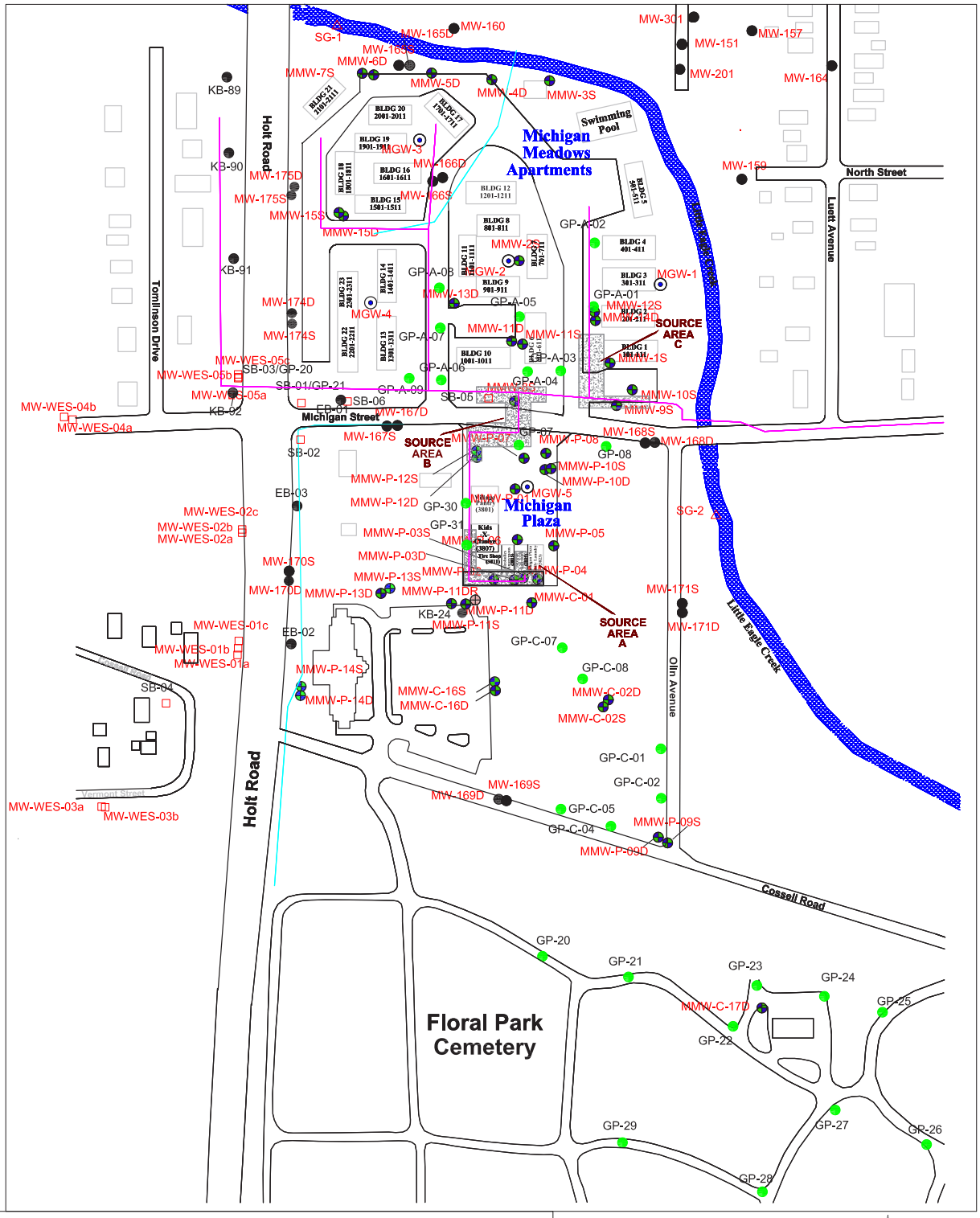
Figure 18	PCE Concentration Trends & Cumulative Pounds Removed (B1 through B4)
Figure 19	PCE Concentration Trends & Cumulative Pounds Removed (B5 through B7)



LEGEND

	Fence
MMW-P-06	MUNDELL Monitoring Well
MW-160/ KB-90	ENVIRON Monitoring Well/Soil Boring
MW-WES-O1A/ SB-02	U.S. EPA Monitoring Well/Soil Boring
SG-1	Stream Gauge Location
MGW-O1	MUNDELL Soil Gas Well
GP-29	Soil Boring
	Sanitary Sewer
	Storm Sewer

N

SCALE 0 200 feet

ENVIRON/Keramida Monitoring Well Locations Referenced from Keramida Environmental, Inc. Project No. 2829 March 13, 2002

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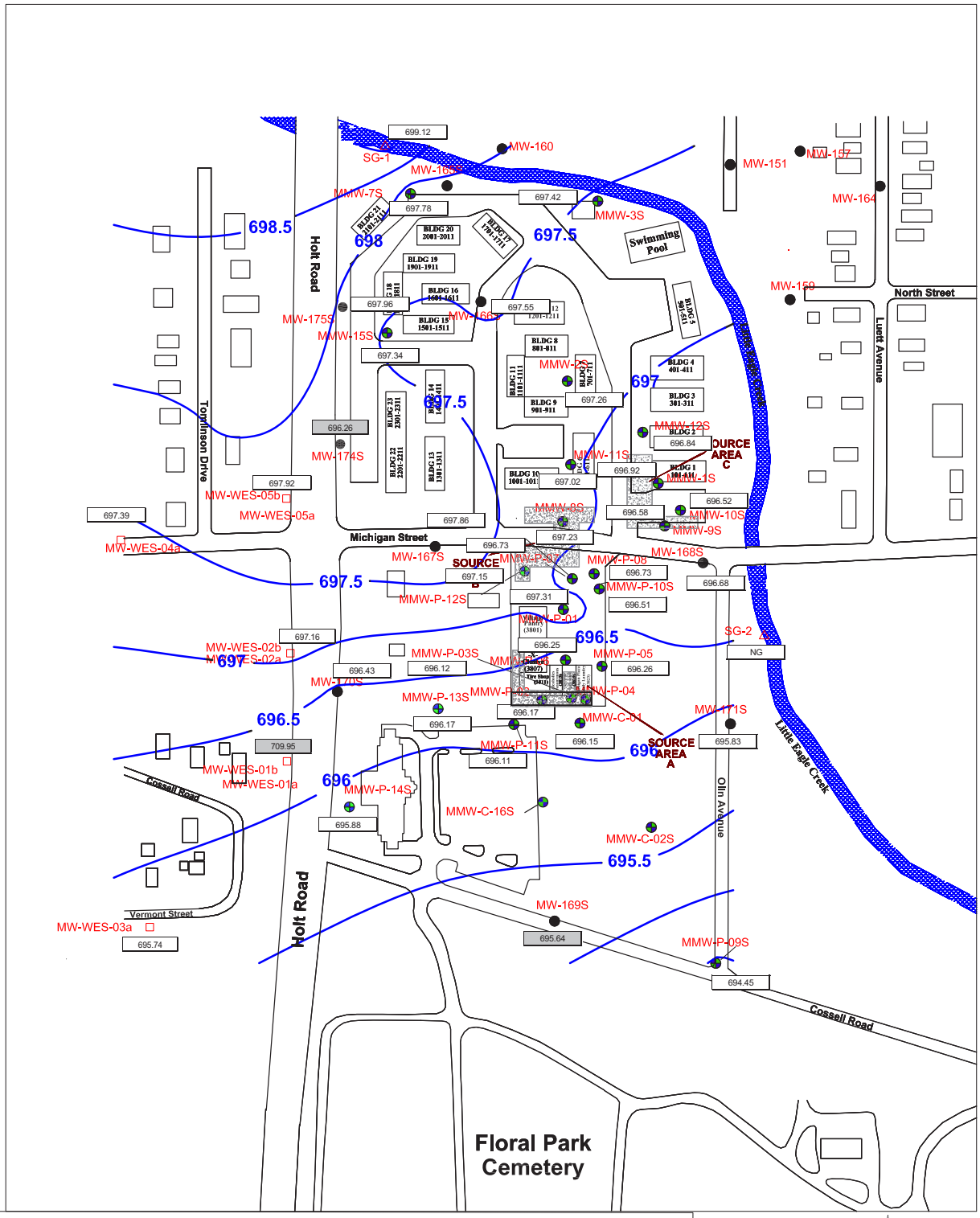
Drawing File:	2Q12 QMR
Date Prepared:	8/15/12
Scale:	1"=200'

SITE PLAN

Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, INDIANA

FIGURE 1



LEGEND

MMW-P-06	MUNDELL Monitoring Well	NG = Not Gauged
MW-160	ENVIRON Monitoring Well	696.68 — Static water elevation (ft-MSL)
MW-WES-O1A	U.S. EPA Monitoring Well	695.64 — Static water elevation not used to contour potentiometric surface map.
SG-1	Stream Gauge Location	
697.5	Potentiometric Surface Equipotential Lines Contour Interval = 0.5 feet	

N

SCALE 0 200 feet

ENVIRON/Keramida Monitoring Well Locations Referenced from Keramida Environmental, Inc. Project No. 2829 March 13, 2002

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Date Prepared:	7/15/12
Scale:	1"=200'

SHALLOW POTENTIOMETRIC SURFACE - 2ND QUARTER 2012

Michigan Plaza
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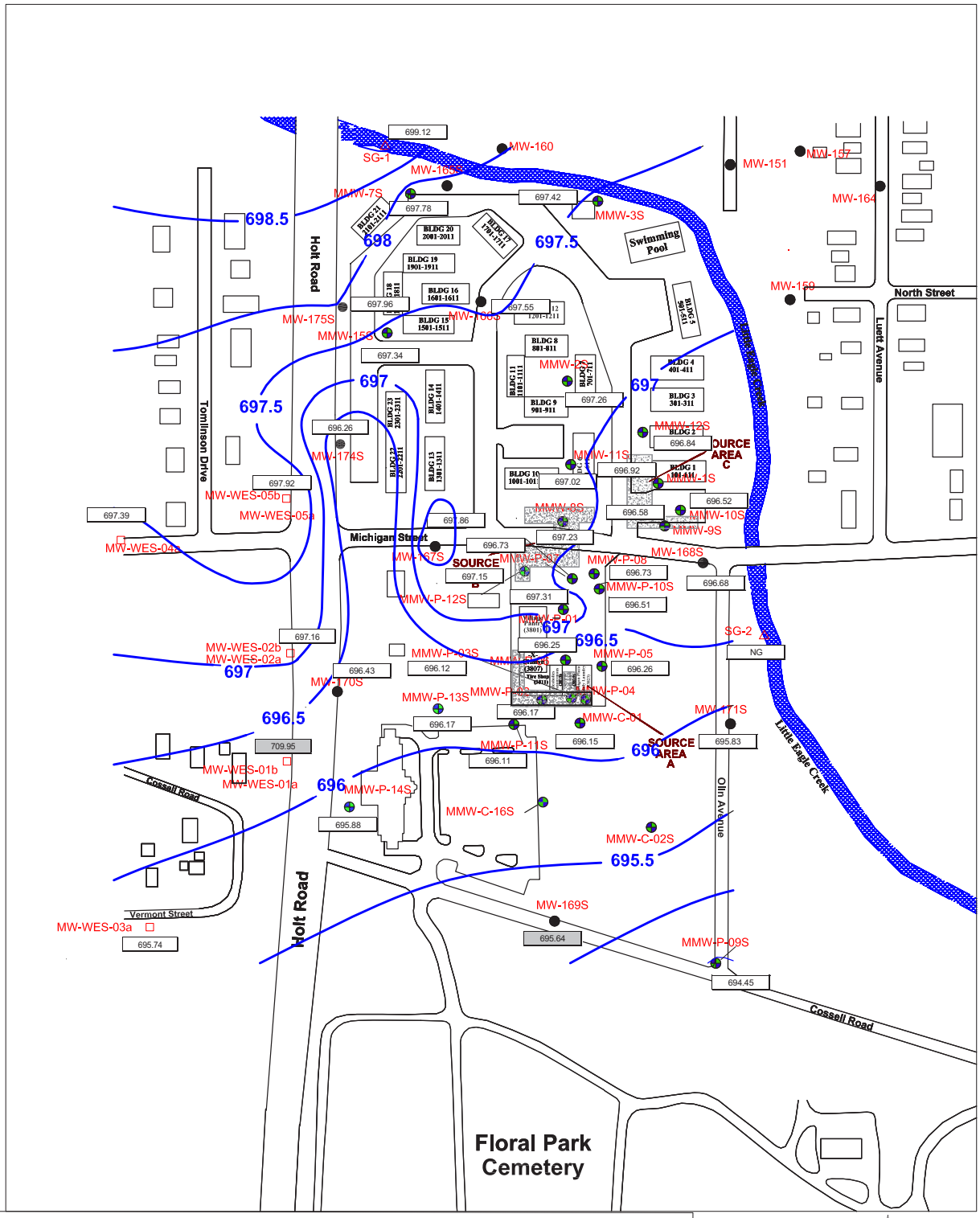
FIGURE 2a



LEGEND

MMW-P-06	MUNDELL Monitoring Well	NG = Not Gauged
MW-160	ENVIRON Monitoring Well	696.68 — Static water elevation (ft-MSL)
MW-WES-O1A	U.S. EPA Monitoring Well	695.64 — Static water elevation not used to contour potentiometric surface map.
SG-1	Stream Gauge Location	
697.5	Potentiometric Surface Equipotential Lines Contour Interval = 0.5 feet	

N

0 SCALE 200 feet

ENVIRON/Keramida Monitoring Well Locations Referenced from Keramida Environmental, Inc. Project No. 2829 March 13, 2002

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Drawing File:	2Q12 QMR
Date Prepared:	9/24/12
Scale:	1"=200'

SHALLOW POTENTIOMETRIC SURFACE - 2ND QUARTER 2012

Michigan Plaza
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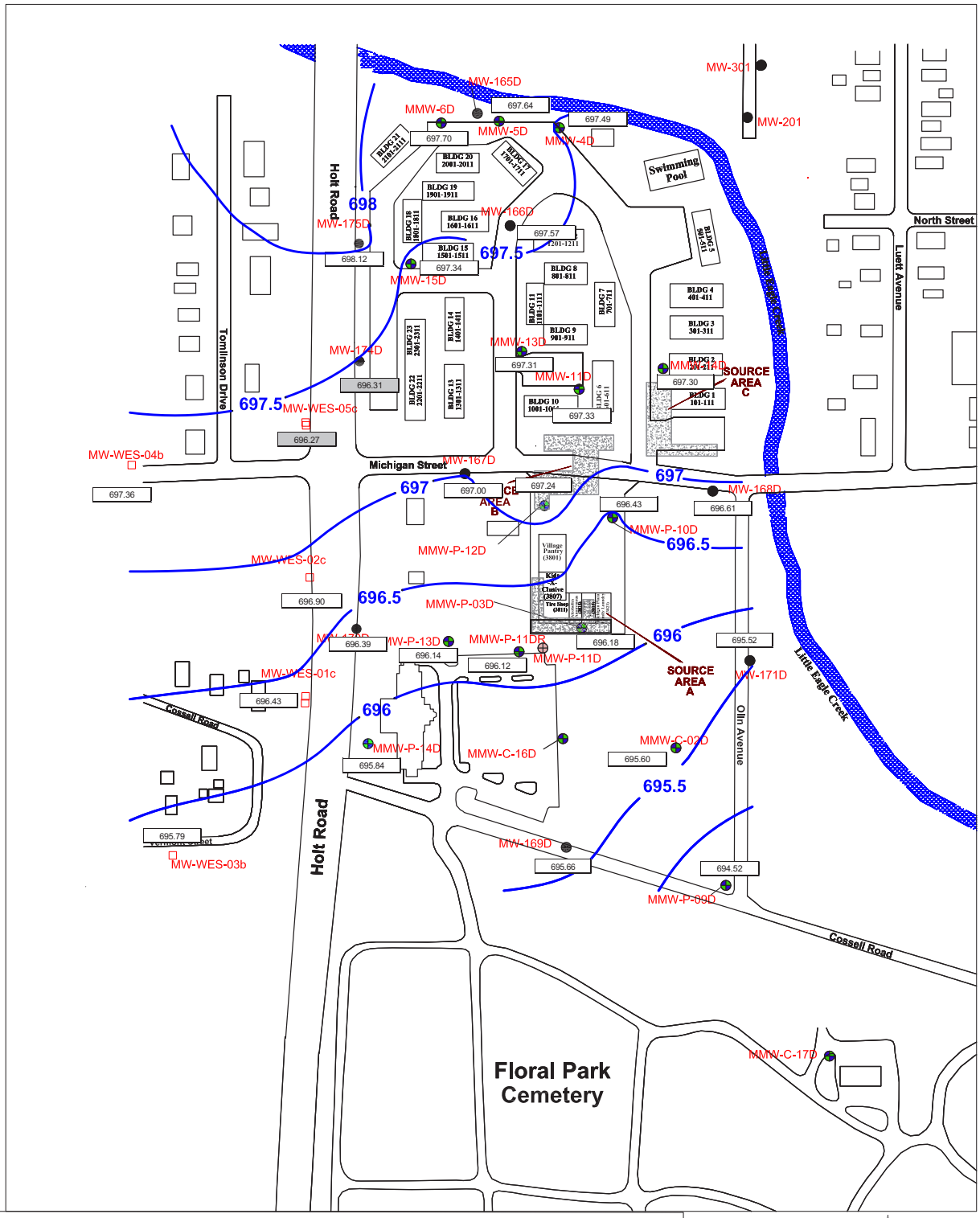
Indianapolis, INDIANA

FIGURE 2b



LEGEND

MMW-P-06	MUNDELL Monitoring Well	696.68	Static water elevation (ft-MSL)
MW-160	ENVIRON Monitoring Well	695.64	Static water elevation not used to contour potentiometric surface map.
MW-WES-O1A	U.S. EPA Monitoring Well		
697.5	Potentiometric Surface Equipotential Lines Contour Interval = 0.5 feet		

N

SCALE 0 200 feet

ENVIRON/Keramida Monitoring Well Locations Referenced from Keramida Environmental, Inc. Project No. 2829 March 13, 2002

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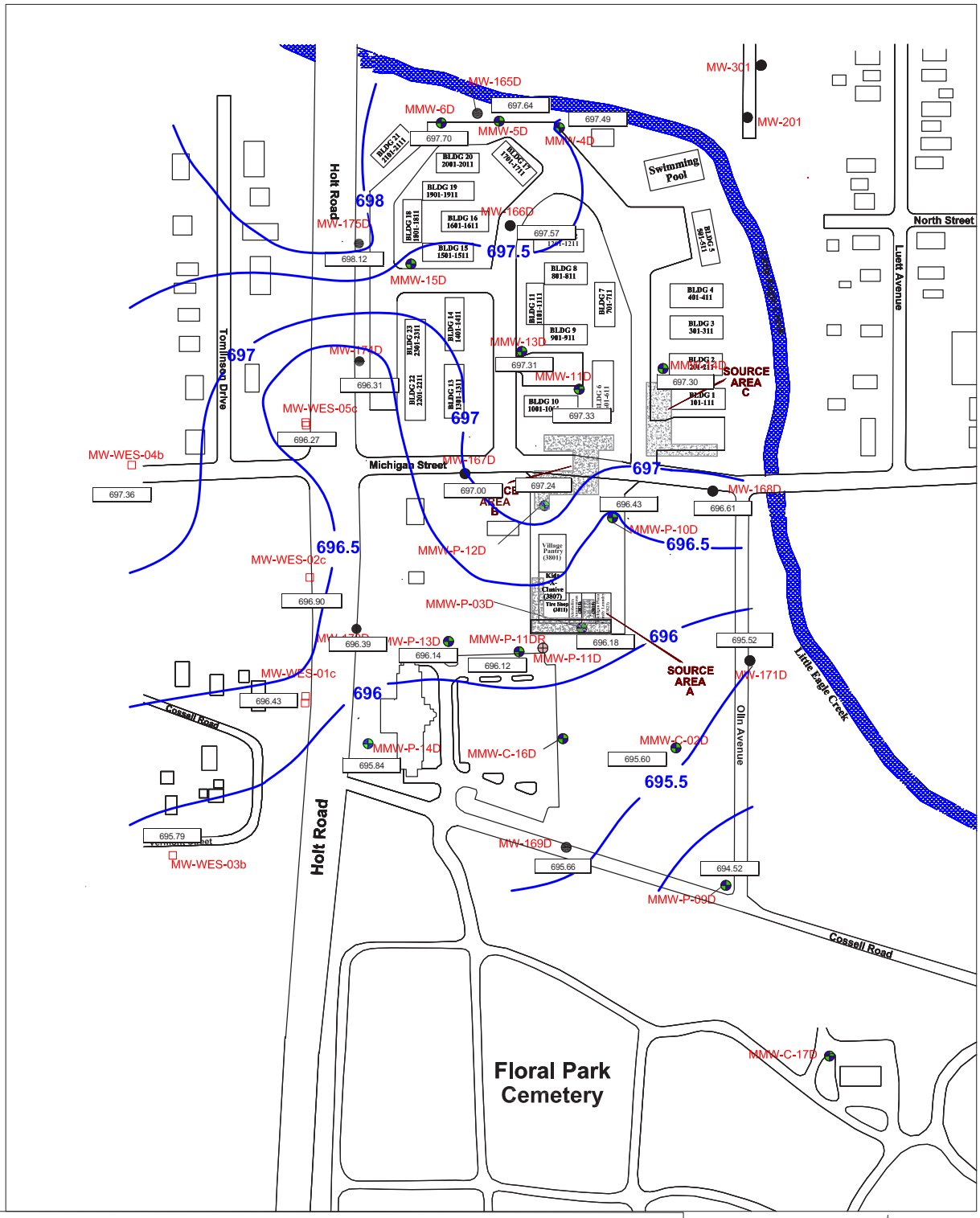
Drawing File:	2Q12 QMR
Date Prepared:	9/24/12
Scale:	1"=200'

DEEP POTENTIOMETRIC SURFACE - 2ND QUARTER 2012

Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, INDIANA

FIGURE 3a



LEGEND

MMW-P-06	MUNDELL Monitoring Well	696.68	Static water elevation (ft-MSL)
MW-160	ENVIRON Monitoring Well	695.64	Static water elevation not used to contour potentiometric surface map.
MW-WES-O1A	U.S. EPA Monitoring Well		
697.5	Potentiometric Surface Equipotential Lines Contour Interval = 0.5 feet		

N

SCALE 0 200 feet

ENVIRON/Keramida Monitoring Well Locations Referenced from Keramida Environmental, Inc. Project No. 2829 March 13, 2002

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DEEP POTENTIOMETRIC SURFACE - 2ND QUARTER 2012

Michigan Plaza
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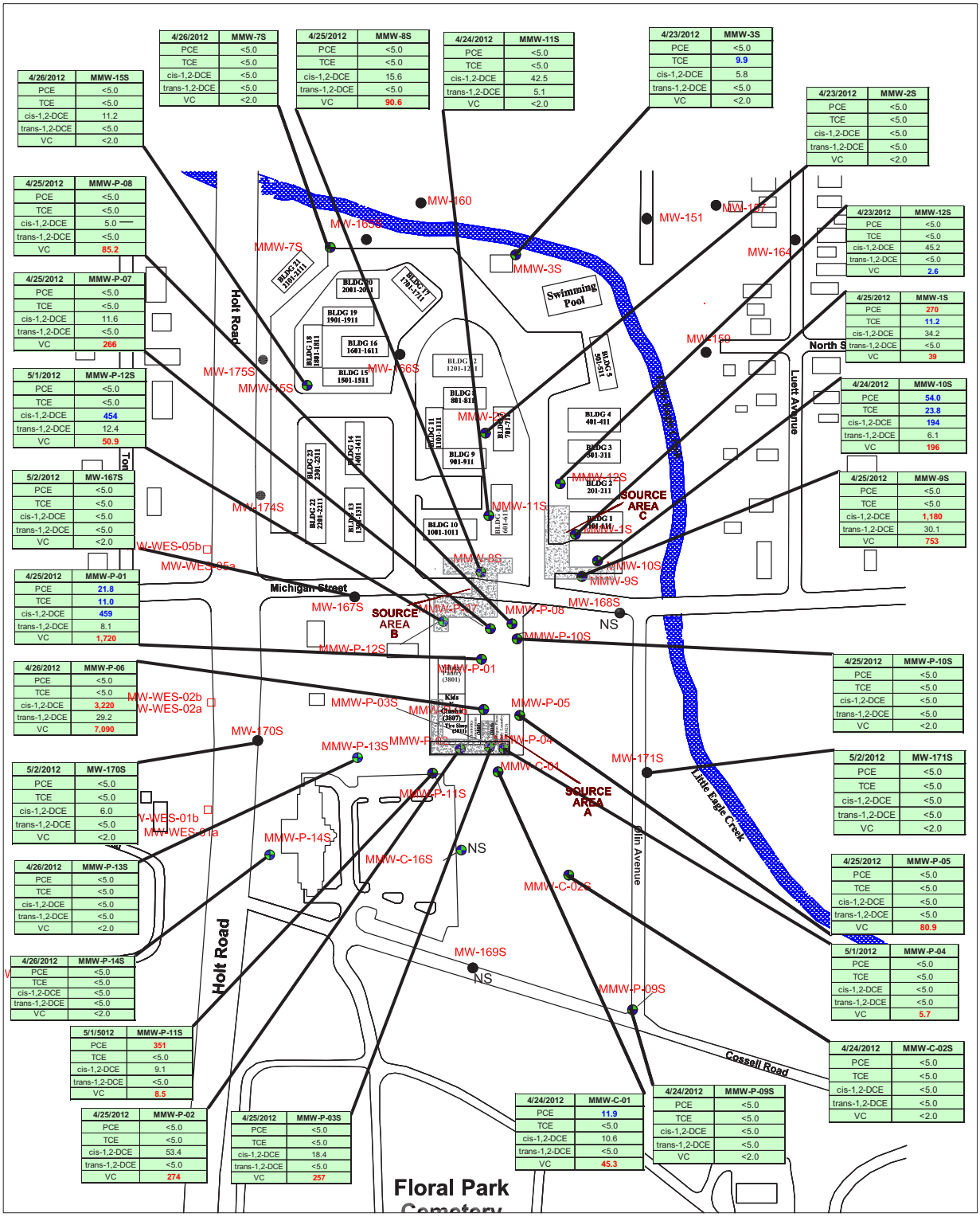
Indianapolis, INDIANA

FIGURE 3b



4/26/2012	MMW-7S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	<2.0

4/25/2012	MMW-8S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	15.6
trans-1,2-DCE	<5.0
VC	90.6

4/24/2012	MMW-11S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	42.5
trans-1,2-DCE	5.1
VC	<2.0

4/23/2012	MMW-3S
PCE	<5.0
TCE	9.9
cis-1,2-DCE	5.8
trans-1,2-DCE	<5.0
VC	<2.0

4/26/2012	MMW-15S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	11.2
trans-1,2-DCE	<5.0
VC	<2.0

4/23/2012	MMW-2S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	<2.0

4/25/2012	MMW-P-08
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	5.0
trans-1,2-DCE	<5.0
VC	85.2

4/23/2012	MMW-12S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	45.2
trans-1,2-DCE	<5.0
VC	2.6

4/25/2012	MMW-P-07
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	11.6
trans-1,2-DCE	<5.0
VC	266

4/25/2012	MMW-1S
PCE	270
TCE	11.2
cis-1,2-DCE	34.2
trans-1,2-DCE	<5.0
VC	39

5/1/2012	MMW-P-12S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	454
trans-1,2-DCE	12.4
VC	50.9

4/24/2012	MMW-10S
PCE	54.0
TCE	23.8
cis-1,2-DCE	194
trans-1,2-DCE	6.1
VC	196

5/2/2012	MW-167S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	<2.0

4/25/2012	MMW-9S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	1,180
trans-1,2-DCE	30.1
VC	753

4/25/2012	MMW-P-01
PCE	21.8
TCE	11.0
cis-1,2-DCE	459
trans-1,2-DCE	8.1
VC	1,720

4/25/2012	MMW-P-10S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	<2.0

4/26/2012	MMW-P-06
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	3,220
trans-1,2-DCE	29.2
VC	7,090

5/2/2012	MW-171S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	<2.0

5/2/2012	MW-170S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	6.0
trans-1,2-DCE	<5.0
VC	<2.0

4/25/2012	MMW-P-05
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	80.9

4/26/2012	MMW-P-13S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	<2.0

5/1/2012	MMW-P-04
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	5.7

4/26/2012	MMW-P-14S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	<2.0

4/24/2012	MMW-C-02S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	<2.0

5/1/5012	MMW-P-11S
PCE	351
TCE	<5.0
cis-1,2-DCE	9.1
trans-1,2-DCE	<5.0
VC	8.5

4/25/2012	MMW-P-02
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	53.4
trans-1,2-DCE	<5.0
VC	274

4/25/2012	MMW-P-03S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	18.4
trans-1,2-DCE	<5.0
VC	257

4/24/2012	MMW-C-01
PCE	11.9
TCE	<5.0
cis-1,2-DCE	10.6
trans-1,2-DCE	<5.0
VC	45.3

4/24/2012	MMW-P-09S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	<2.0

LEGEND

MMW-P-06 — MUNDELL Monitoring Well

MW-160 — ENVIRON Monitoring Well

MW-WES-O1A — U.S. EPA Monitoring Well

	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl chloride
	ug/l				
IDEM RISC Default Industrial Cleanup Level	55	31	1,000	2,000	4
IDEM RISC Default Residential Cleanup Level; IDEM 2012 RCG Tap Residential	5	5	70	100	2

4/25/2012	MMW-1S
PCE	270
TCE	11.2
cis-1,2-DCE	34.2
trans-1,2-DCE	<5.0
VC	39

All Values Over IDEM RISC Industrial Default Cleanup Levels in Red
All Values Over IDEM RISC Residential Default Cleanup Levels/2012 RCG Tap - Residential Screening Level In Blue
PCE = Tetrachloroethene
TCE = Trichloroethene
cis-1,2-DCE = cis-1,2-Dichloroethene
trans-1,2-DCE = trans-1,2-Dichloroethene
ug/l = micrograms per liter
NS = Not Sampled
All analytical results presented in micrograms per liter (ug/l)

N

0 SCALE 200 feet

NS = Not Sampled

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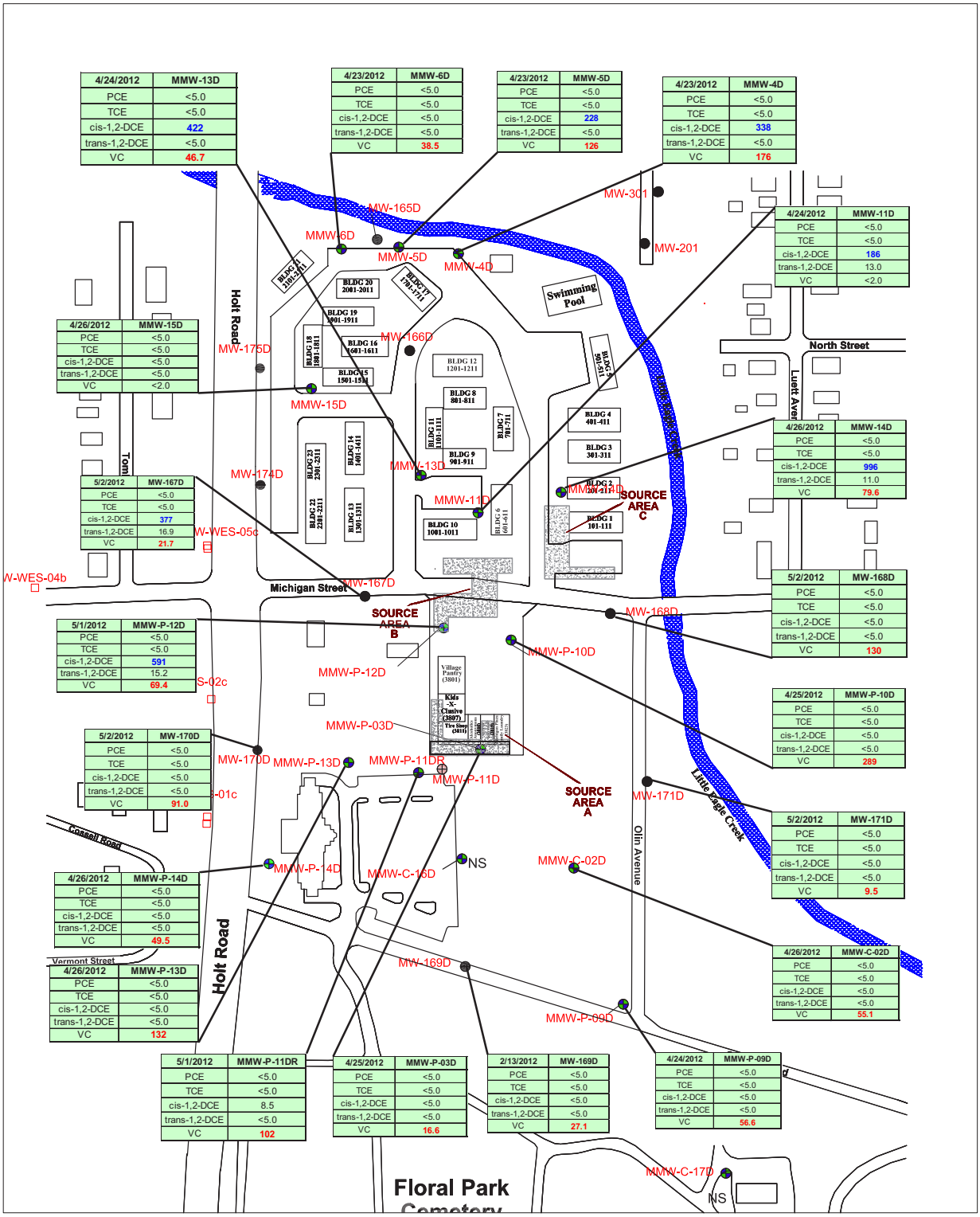
Drawing File: 2Q12 QMR
Date Prepared: 7/15/12
Scale: 1"=200'

GROUNDWATER ANALYTICAL MAP - SHALLOW
2ND QUARTER 2012

Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, INDIANA

FIGURE
4



LEGEND

MMW-P-09D	MUNDELL Monitoring Well
MW-169D	ENVIRON Monitoring Well
MW-WES-OCA	U.S. EPA Monitoring Well

	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl chloride
	ug/l				
IDEM RISC Default Industrial Cleanup Level	55	31	1,000	2,000	4
IDEM RISC Default Residential Cleanup Level; IDEM 2012 RCG Tap Residential	5	5	70	100	2

4/25/2012	MMW-1S
PCE	270
TCE	11.2
cis-1,2-DCE	34.2
trans-1,2-DCE	<5.0
VC	39

All Values Over IDEM RISC Industrial Default Cleanup Levels in Red
All Values Over IDEM RISC Residential Default Cleanup Levels/2012 RCG Tap - Residential Screening Level In Blue
PCE = Tetrachloroethene
TCE = Trichloroethene
cis-1,2-DCE = cis-1,2-Dichloroethene
trans-1,2-DCE = trans-1,2-Dichloroethene
ug/l = micrograms per liter
NS = Not Sampled
All analytical results presented in micrograms per liter (ug/l)

N

0 SCALE 200 feet

NS = Not Sampled

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GROUNDWATER ANALYTICAL MAP - DEEP
2ND QUARTER 2012

Michigan Plaza
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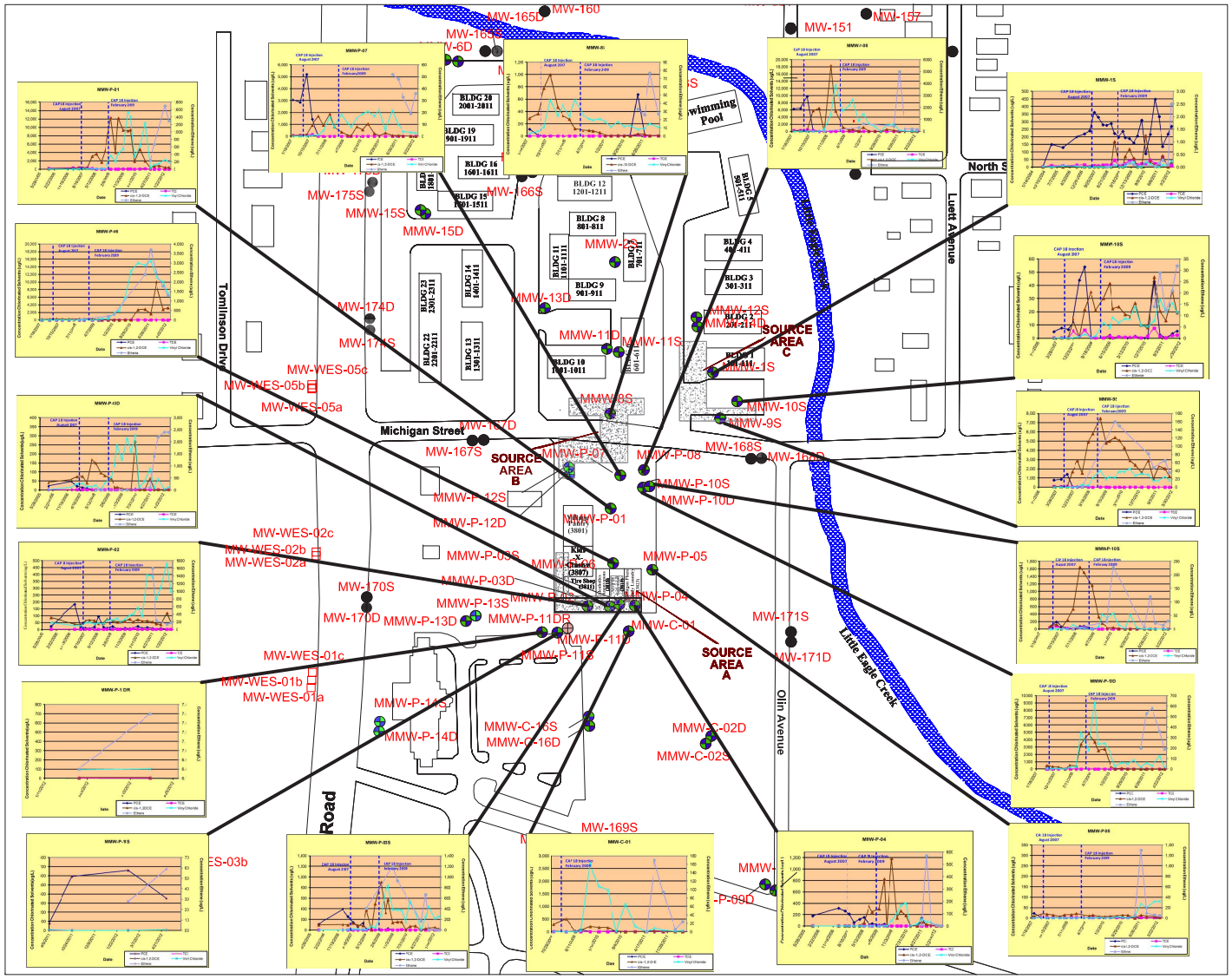
Indianapolis, INDIANA

FIGURE
5



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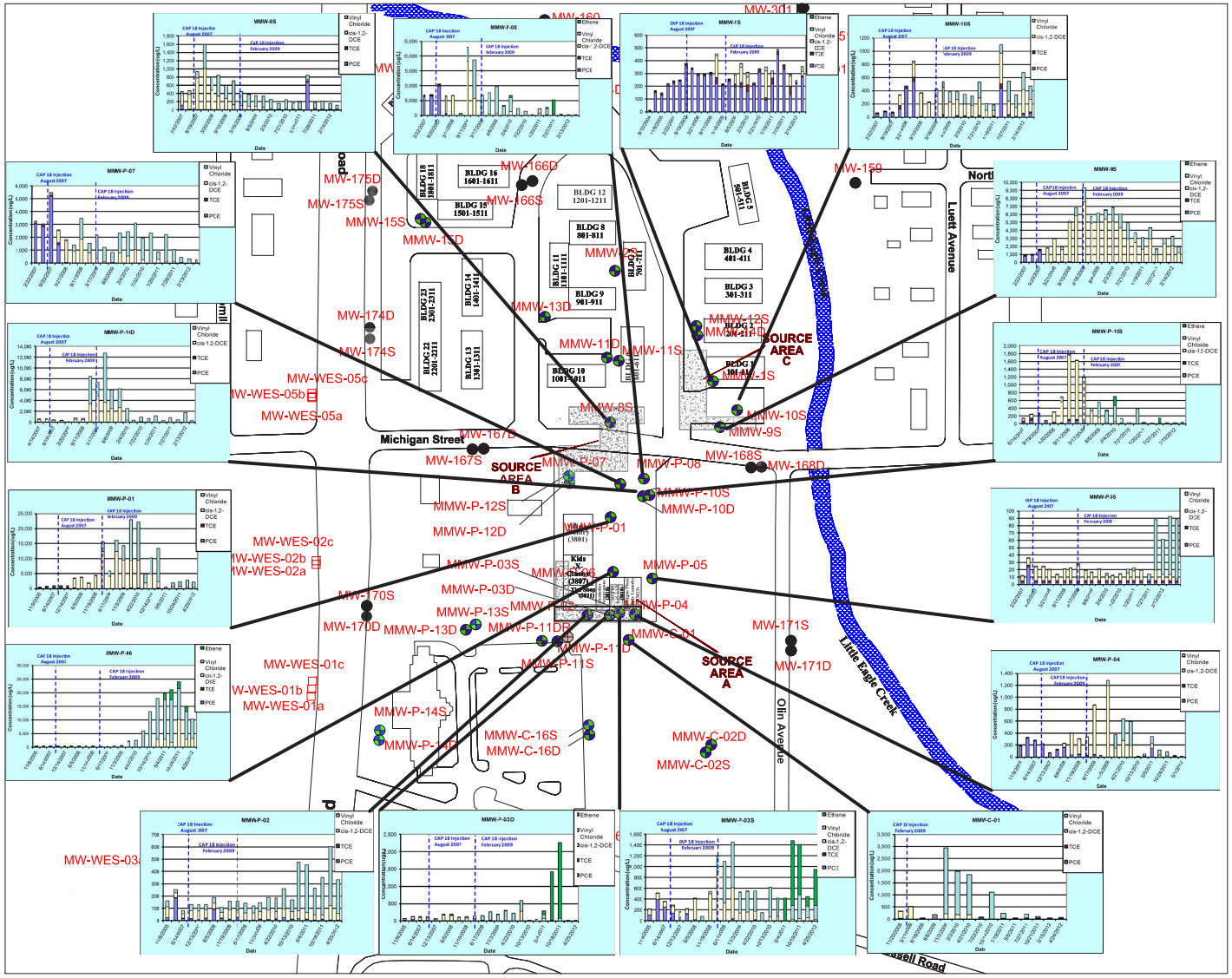
REV.	DATE	DESCRIPTION	BY	APPR.

PROJECT NO.:	M01046	FILE NO.:	GW Quarterly.DWG
DRAWING:	1"=100'	PLOT SIZE:	ANSI D
DRAFTED BY:	MTB	DATE:	6/15/12
CHECKED BY:	SVE	DATE:	6/15/12
APPROVED BY:	MEB	DATE:	6/15/12

Indicator Compound Trends in Groundwater

Michigan Plaza
3801 - 3823 Michigan Street
Indianapolis, Indiana

FIGURE
6



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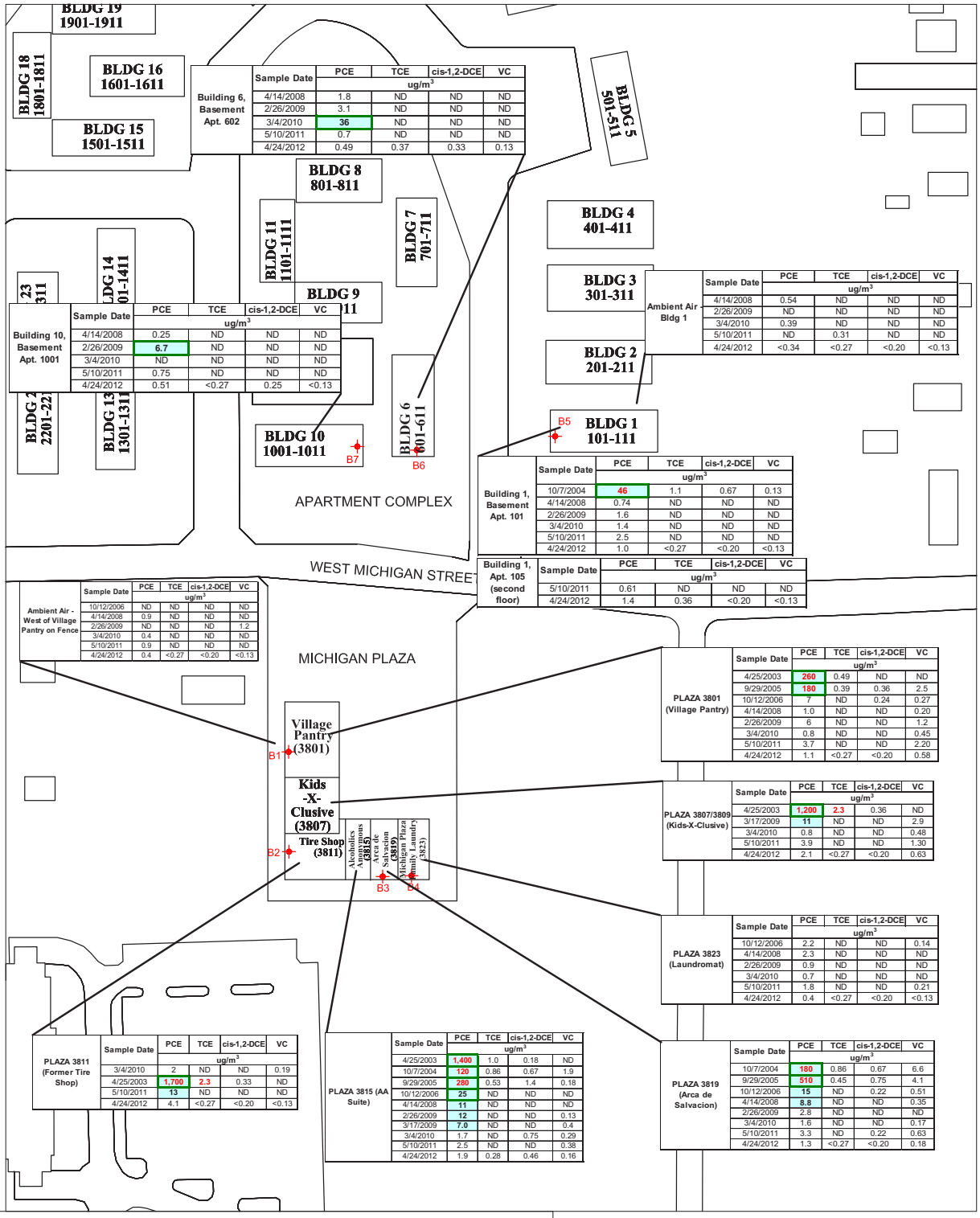
CHECKED BY:	SVE	DATE:	6/15/12
APPROVED BY:	MEB	DATE:	6/15/12

Parent and Daughter Compound Trends in Groundwater
Michigan Plaza
3801 - 3823 Michigan Street
Indianapolis, Indiana

FIGURE
7



Building 6, Basement Apt. 602	Sample Date	PCE	TCE	cis-1,2-DCE	VC
		ug/m^3			
	4/14/2008	1.8	ND	ND	ND
	2/26/2009	3.1	ND	ND	ND
	3/4/2010	36	ND	ND	ND
	5/10/2011	0.7	ND	ND	ND
	4/24/2012	0.49	0.37	0.33	0.13

Building 10, Basement Apt. 1001	Sample Date	PCE	TCE	cis-1,2-DCE	VC
		ug/m^3			
	4/14/2008	0.25	ND	ND	ND
	2/26/2009	6.7	ND	ND	ND
	3/4/2010	ND	ND	ND	ND
	5/10/2011	0.75	ND	ND	ND
	4/24/2012	0.51	<0.27	0.25	<0.13

Ambient Air Bldg 1	Sample Date	PCE	TCE	cis-1,2-DCE	VC
		ug/m^3			
	4/14/2008	0.54	ND	ND	ND
	2/26/2009	ND	ND	ND	ND
	3/4/2010	0.39	ND	ND	ND
	5/10/2011	ND	0.31	ND	ND
	4/24/2012	<0.34	<0.27	<0.20	<0.13

Building 1, Basement Apt. 101	Sample Date	PCE	TCE	cis-1,2-DCE	VC
		ug/m^3			
	10/7/2004	46	1.1	0.67	0.13
	4/14/2008	0.74	ND	ND	ND
	2/26/2009	1.6	ND	ND	ND
	3/4/2010	1.4	ND	ND	ND
	5/10/2011	2.5	ND	ND	ND
	4/24/2012	1.0	<0.27	<0.20	<0.13

Building 1, Apt. 105 (second floor)	Sample Date	PCE	TCE	cis-1,2-DCE	VC
		ug/m^3			
	5/10/2011	0.61	ND	ND	ND
	4/24/2012	1.4	0.36	<0.20	<0.13

Ambient Air - West of Village Pantry on Fence	Sample Date	PCE	TCE	cis-1,2-DCE	VC
		ug/m^3			
	10/12/2006	ND	ND	ND	ND
	4/14/2008	0.9	ND	ND	ND
	2/26/2009	ND	ND	ND	1.2
	3/4/2010	0.4	ND	ND	ND
	5/10/2011	0.9	ND	ND	ND
	4/24/2012	0.4	<0.27	<0.20	<0.13

PLAZA 3801 (Village Pantry)	Sample Date	PCE	TCE	cis-1,2-DCE	VC
		ug/m^3			
	4/25/2003	260	0.49	ND	ND
	9/29/2005	180	0.39	0.36	2.5
	10/12/2006	7	ND	0.24	0.27
	4/14/2008	1.0	ND	ND	0.20
	2/26/2009	6	ND	ND	1.2
	3/4/2010	0.8	ND	ND	0.45
	5/10/2011	3.7	ND	ND	2.20
	4/24/2012	1.1	<0.27	<0.20	0.58

PLAZA 3807/3809 (Kids-X-Clusive)	Sample Date	PCE	TCE	cis-1,2-DCE	VC
		ug/m^3			
	4/25/2003	1,200	2.3	0.36	ND
	3/17/2009	11	ND	ND	2.9
	3/4/2010	0.8	ND	ND	0.48
	5/10/2011	3.9	ND	ND	1.30
	4/24/2012	2.1	<0.27	<0.20	0.63

PLAZA 3823 (Laundromat)	Sample Date	PCE	TCE	cis-1,2-DCE	VC
		ug/m^3			
	10/12/2006	2.2	ND	ND	0.14
	4/14/2008	2.3	ND	ND	ND
	2/26/2009	0.9	ND	ND	ND
	3/4/2010	0.7	ND	ND	ND
	5/10/2011	1.8	ND	ND	0.21
	4/24/2012	0.4	<0.27	<0.20	<0.13

PLAZA 3811 (Former Tire Shop)	Sample Date	PCE	TCE	cis-1,2-DCE	VC
		ug/m^3			
	3/4/2010	2	ND	ND	0.19
	4/25/2003	1,700	2.3	0.33	ND
	5/10/2011	13	ND	ND	ND
	4/24/2012	4.1	<0.27	<0.20	<0.13

PLAZA 3815 (AA Suite)	Sample Date	PCE	TCE	cis-1,2-DCE	VC
		ug/m^3			
	4/25/2003	1,400	1.0	0.18	ND
	10/7/2004	120	0.86	0.67	1.9
	9/29/2005	280	0.53	1.4	0.18
	10/12/2006	25	ND	ND	ND
	4/14/2008	11	ND	ND	ND
	2/26/2009	12	ND	ND	0.13
	3/17/2009	7.0	ND	ND	0.4
	3/4/2010	1.7	ND	0.75	0.29
	5/10/2011	2.5	ND	ND	0.38
	4/24/2012	1.9	0.28	0.46	0.16

PLAZA 3819 (Arca de Salvacion)	Sample Date	PCE	TCE	cis-1,2-DCE	VC
		ug/m^3			
	10/7/2004	180	0.86	0.67	6.6
	9/29/2005	510	0.45	0.75	4.1
	10/12/2006	15	ND	0.22	0.51
	4/14/2008	8.8	ND	ND	0.35
	2/26/2009	2.8	ND	ND	ND
	3/4/2010	1.6	ND	ND	0.17
	5/10/2011	3.3	ND	0.22	0.63
	4/24/2012	1.3	<0.27	<0.20	0.18

LEGEND

B1 System Location

Indoor Air Regulatory Limits	Reference	PCE	TCE	cis-1,2-DCE	VC
		ug/m^3			
	EPA 2002	81	2	35	28
	IDEM 2010 Commercial	6.8	7.9	51	8.9
	IDEM 2010 Residential	3.2	1.2	37	2.2
	IDEM 2012 RCG Commercial	21	9	-	28
	IDEM 2012 RCG Residential	4.1	2.1	-	1.6

N

SCALE 0 100 feet

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Drawing File: 2Q12 QMR
Date Prepared: 8/25/12
Scale: 1"= 100'

INDOOR AIR ANALYTICAL RESULTS - APRIL 2012

Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, INDIANA

FIGURE 8

MGW-02	Sample Date	PCE	TCE	cis-1,2-DCE	VC
		ug/m^3			
	3/4/2010	ND	ND	ND	ND
	5/10/2011	1	ND	ND	ND
	4/24/2012	0.66	<0.27	0.36	<0.13

MGW-01	Sample Date	PCE	TCE	cis-1,2-DCE	VC
		ug/m^3			
	10/7/2004	1.8	0.42	ND	0.51
	4/15/2008	0.55	0.29	ND	ND
	2/26/2009	32	6.8	0.8	ND
	3/4/2010	ND	ND	ND	ND
	5/10/2011	3	ND	0.8	0.91
	4/24/2012	0.64	<0.27	<0.20	<0.13

MGW-05	Sample Date	PCE	TCE	cis-1,2-DCE	VC
		ug/m^3			
	4/25/2003	120	1,600	1,900	1.10
	10/7/2004	1,400	3,900	2,900	1.50
	4/15/2008	4,600	3,600	910	ND
	2/26/2009	14,000	5,800	1,300	2,000
	3/4/2010	26,000	8,100	12,000	610
	7/23/2010	55,000	27,000	49,000	500
	5/10/2011	22,000	5,500	21,000	11
	4/24/2012	18,000	5,200	11,000	5.6

LEGEND

B1 System Location

Soil Gas Regulatory Limits	Reference	PCE	TCE	cis-1,2-DCE	VC
		ug/m^3			
	EPA 2002	8,100	220	3,500	280
	IDEM 2010 Commercial	5,100	20,000	-	15,000
	IDEM 2010 Residential	3,600	2,000	-	3,500
	IDEM 2012 RCG Commercial	21	8.8	-	28
	IDEM 2012 RCG Residential	4.1	2.1	-	1.6

N

SCALE 0 100 feet

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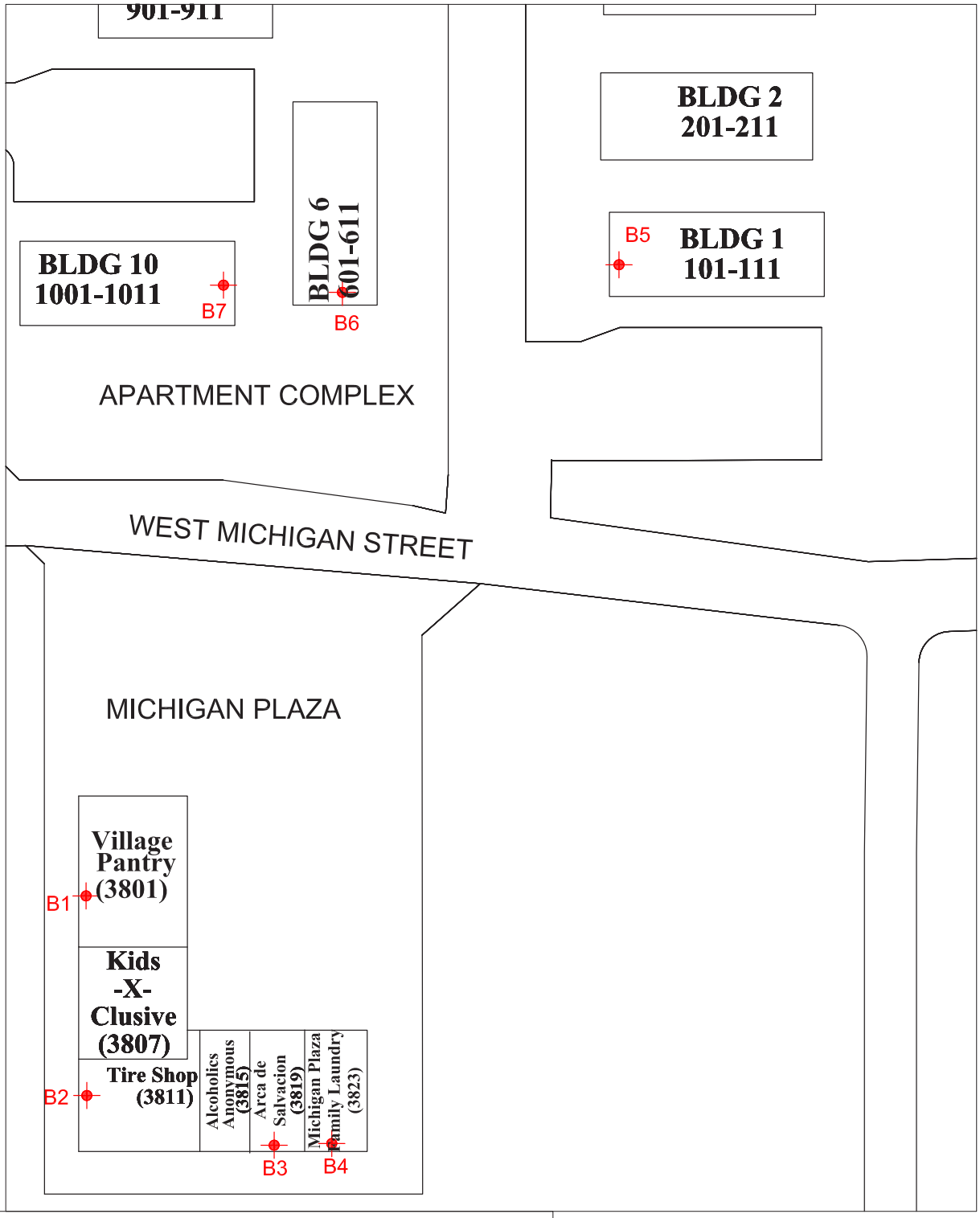
Project Number: M01046
Drawing File: 2Q12 QMR
Date Prepared: 8/25/12
Scale: 1"= 100'

SOIL GAS ANALYTICAL RESULTS - APRIL 2012

Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, INDIANA

FIGURE 9



LEGEND

B1 System Location

N

SCALE 0 50 feet

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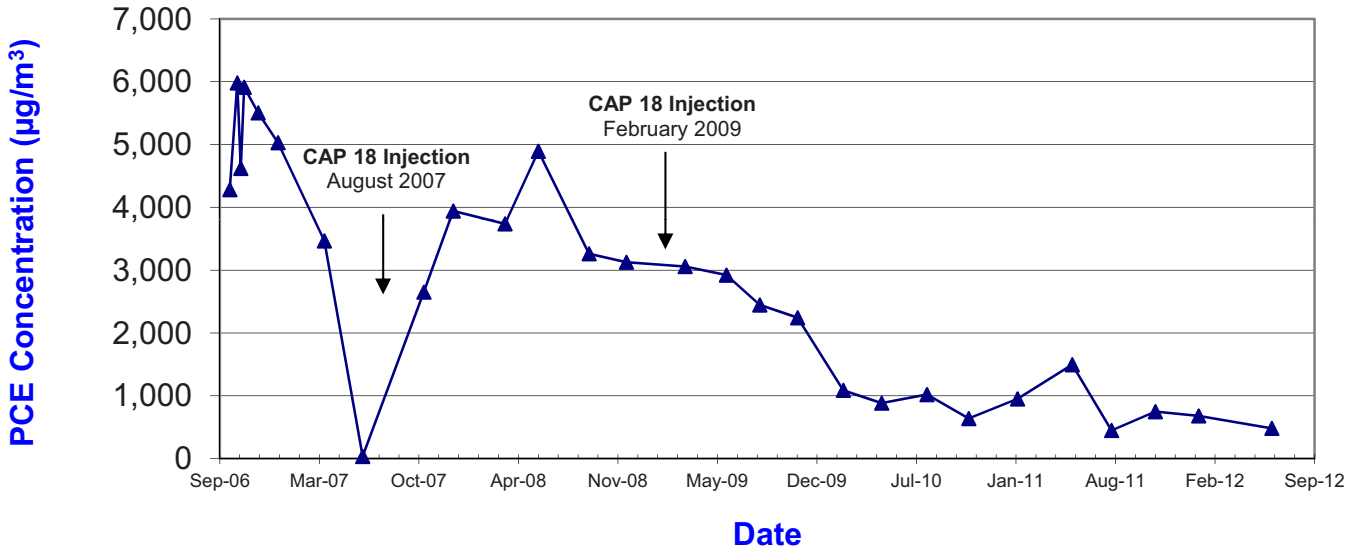
Scale:	1"=50'

SYSTEM LOCATION MAP

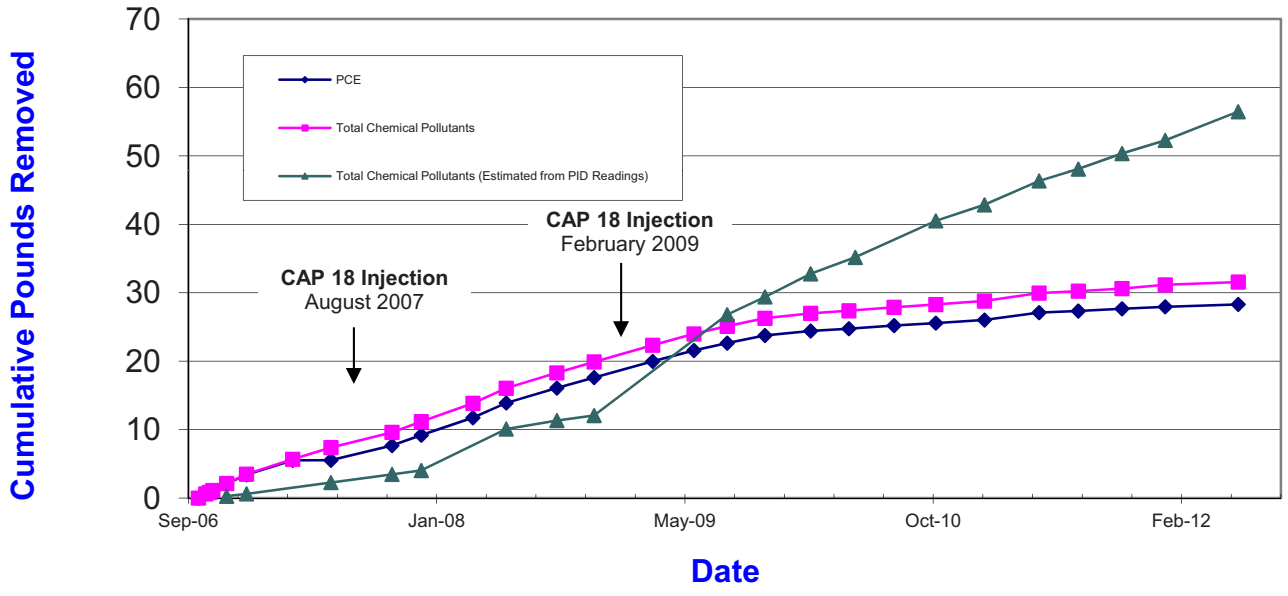
Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, INDIANA

FIGURE
10

PCE Vapor Concentrations Trend - Village Pantry (Unit 3801) Vapor Mitigation System (B1)



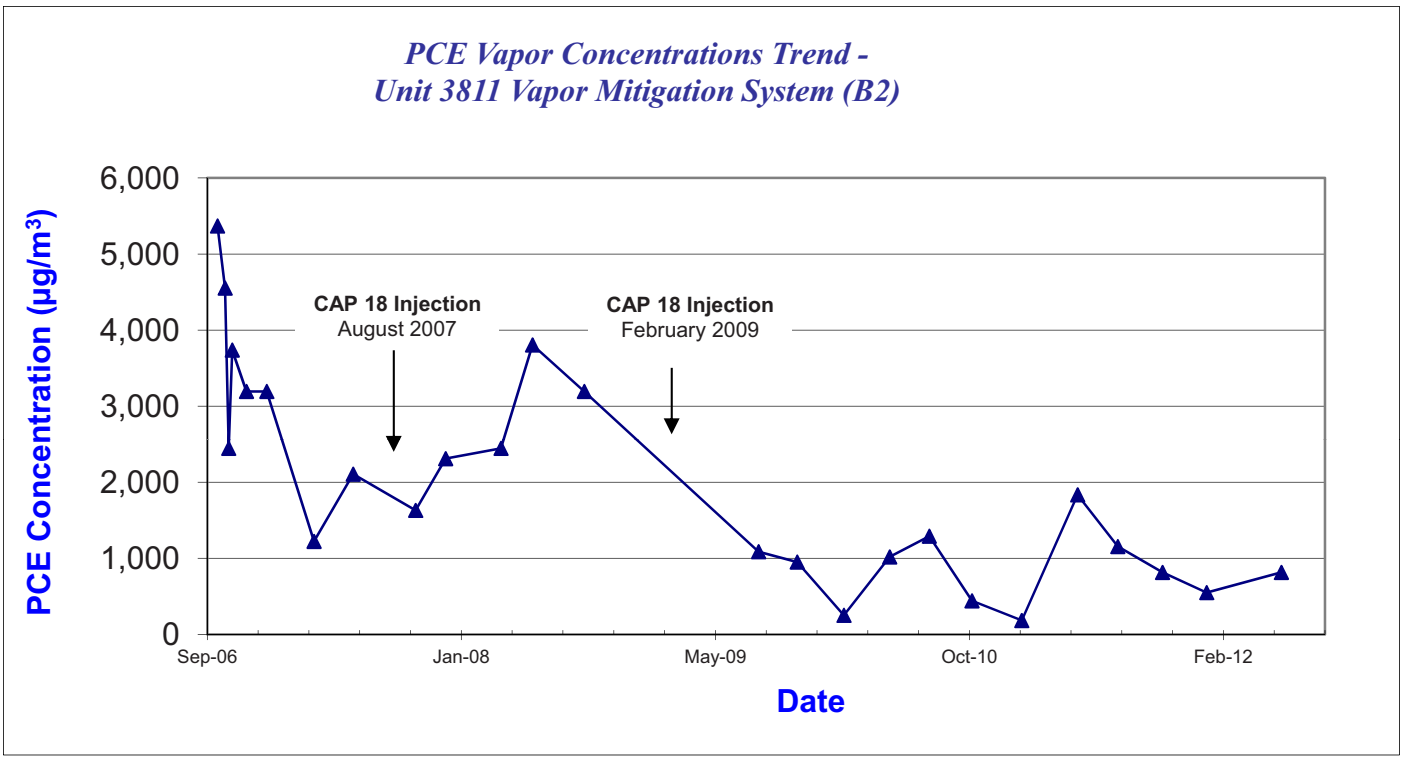
Chemical Pounds Removed - Villiage Pantry (Unit 3801) Vapor Mitigation System (B1)

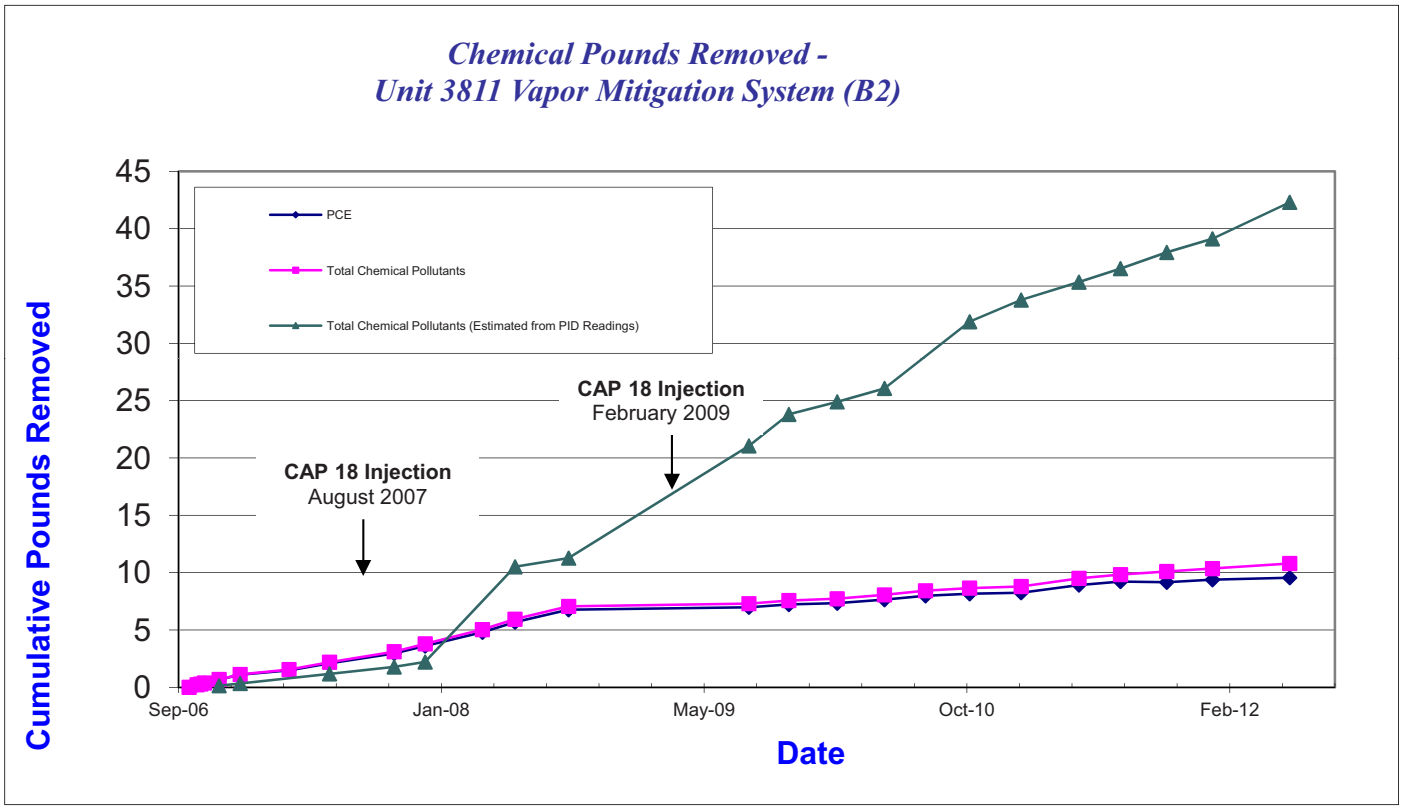


Mundell Consulting Professionals for the Earth and the Environment	*Mundell & Associates, Inc.* *110 South Downey Avenue* *Indianapolis, Indiana 46219* *www.MundellAssociates.com*	**Project Number:** M01046 **File:** MI Plaza charts **Date Prepared:** 7/3/2012 **Scale:** no scale	**PCE Concentration Trends and Cumulative Pounds Removed** Vapor Mitigation System B-1 (Villiage Pantry - Unit 3801) Second Quarter 2012 Michigan Plaza 3801-3823 West Michigan Street Indianapolis, IN

FIGURE

11





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Project Number:	M01046
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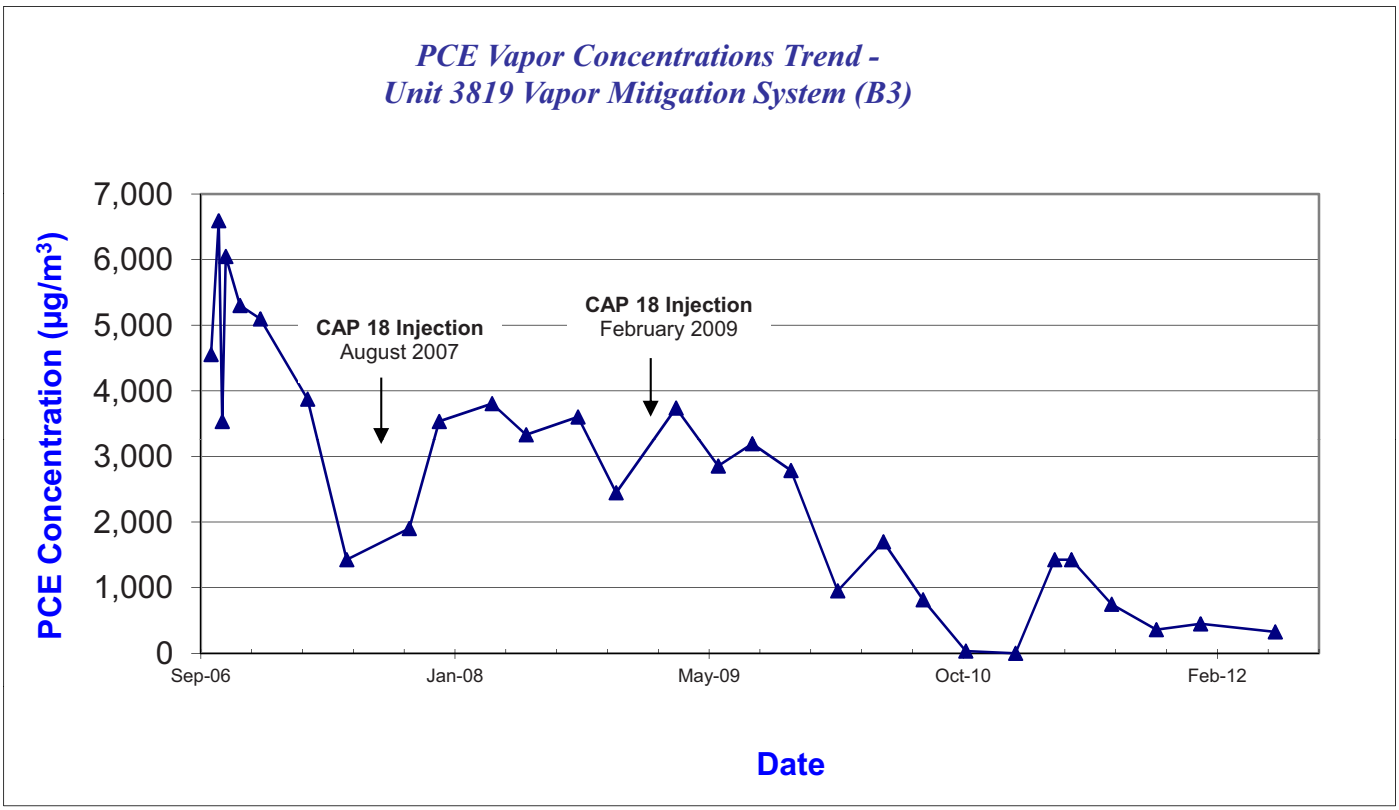
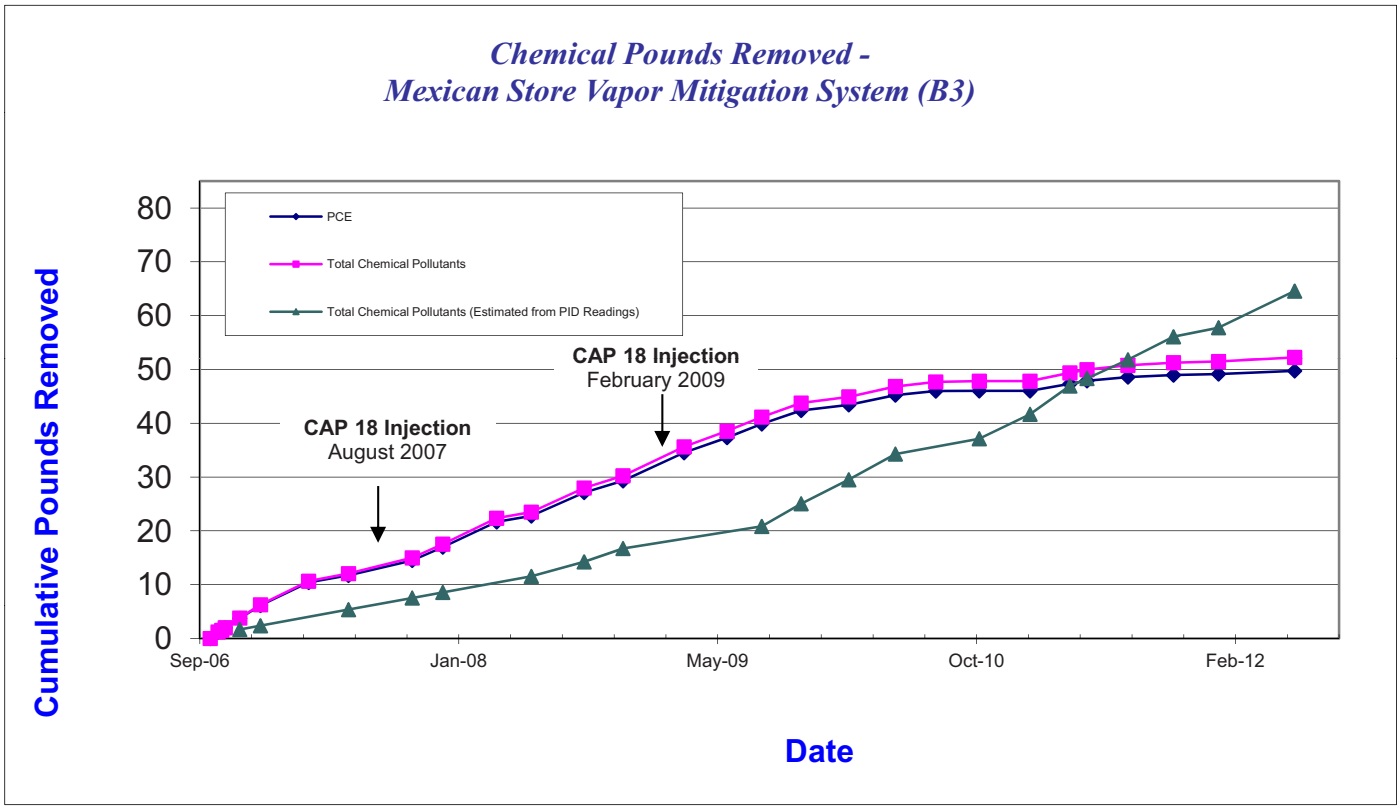
Date Prepared:	7/3/2012
Scale:	no scale

PCE Concentration Trends and Cumulative Pounds Removed
Vapor Mitigation System B-2 (Unit 3811)
Second Quarter 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, IN

FIGURE
12





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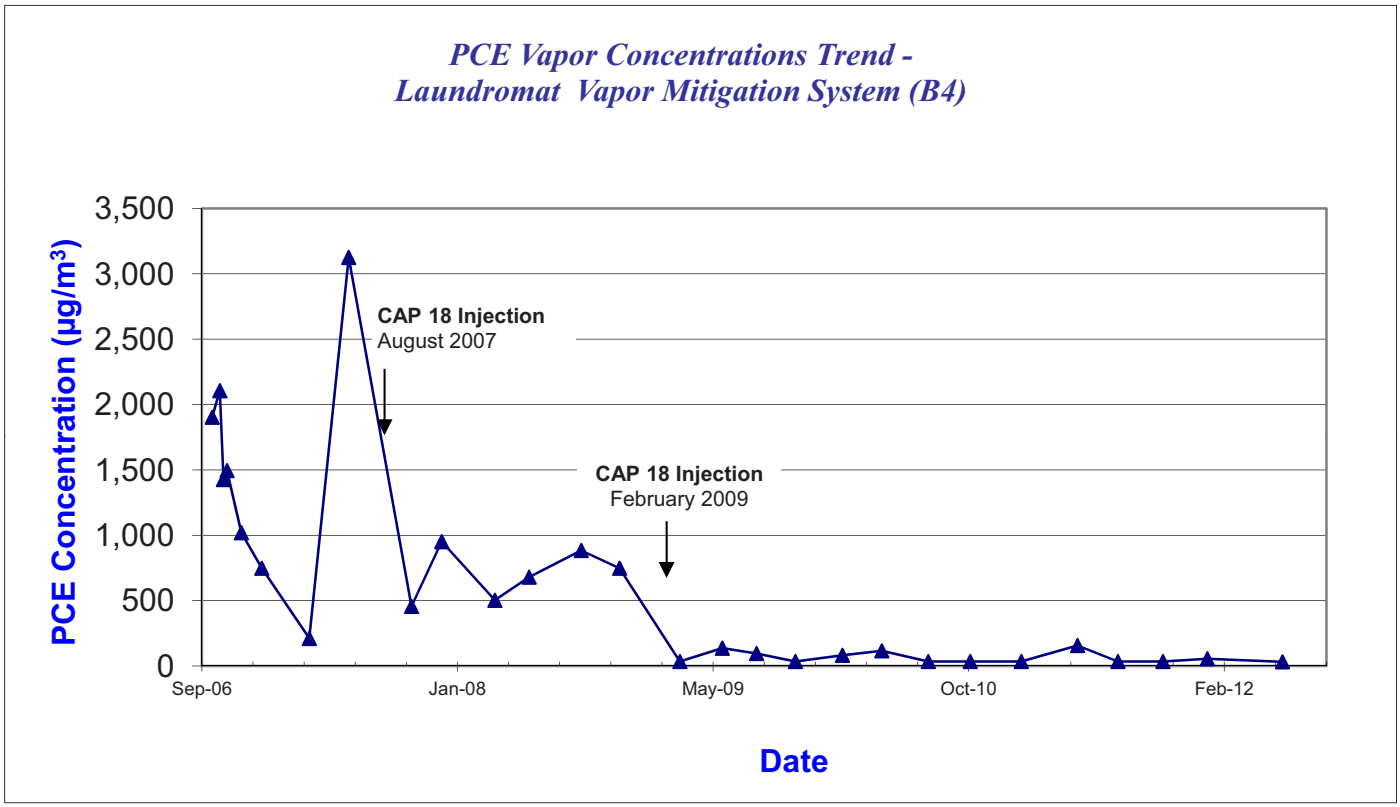
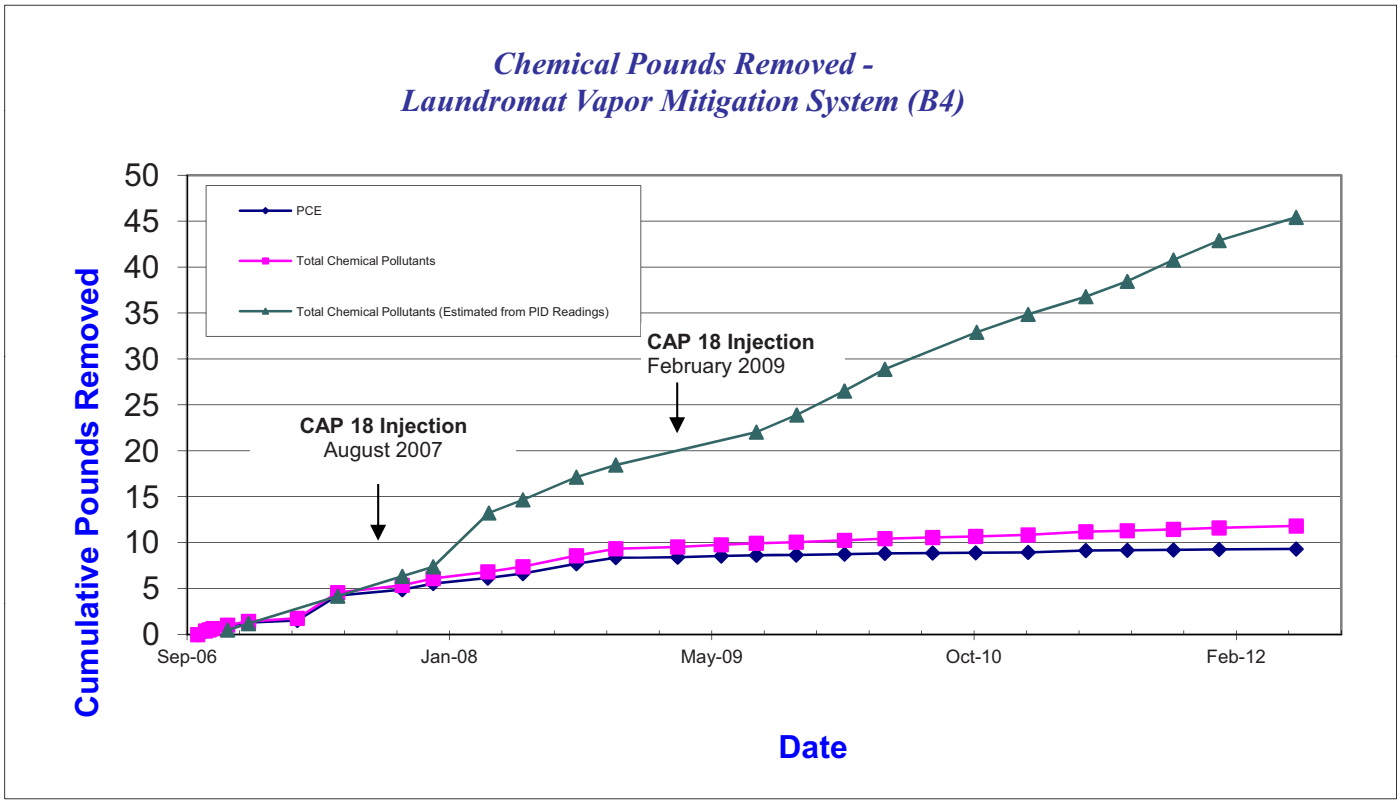
PCE Concentration Trends and Cumulative Pounds Removed
Vapor Mitigation System B-3 (Unit 3819)
Second Quarter 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, IN

FIGURE

13





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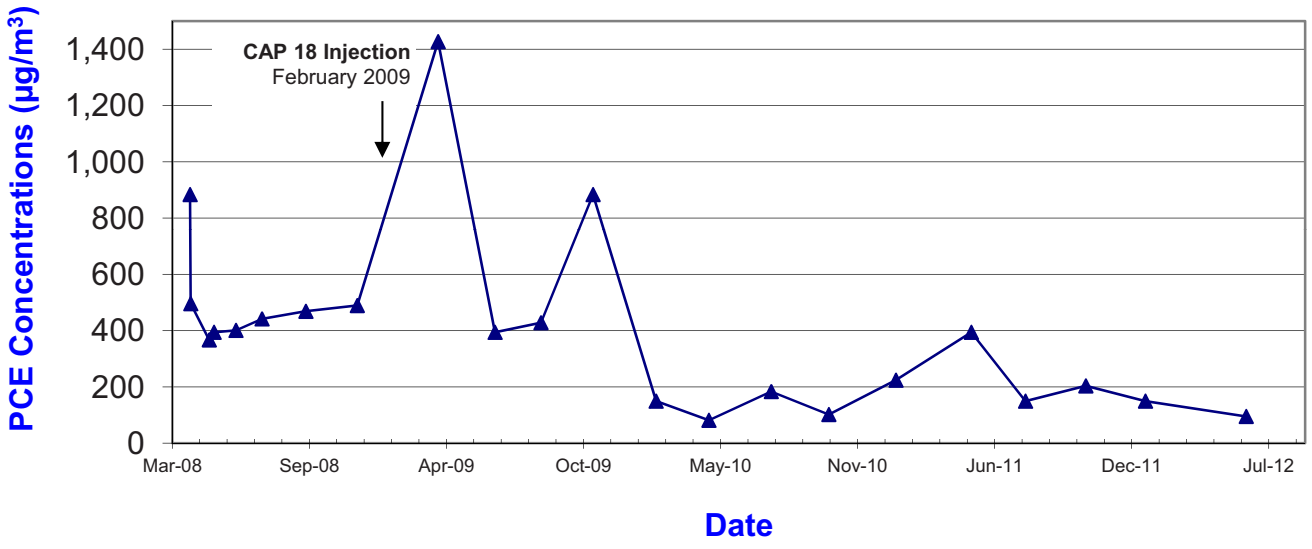
Date Prepared:	7/9/2012
Scale:	no scale

PCE Concentration Trends and Cumulative Pounds Removed
Vapor Mitigation System B-4 (Laundromat - Unit 3823)
Second Quarter 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, IN

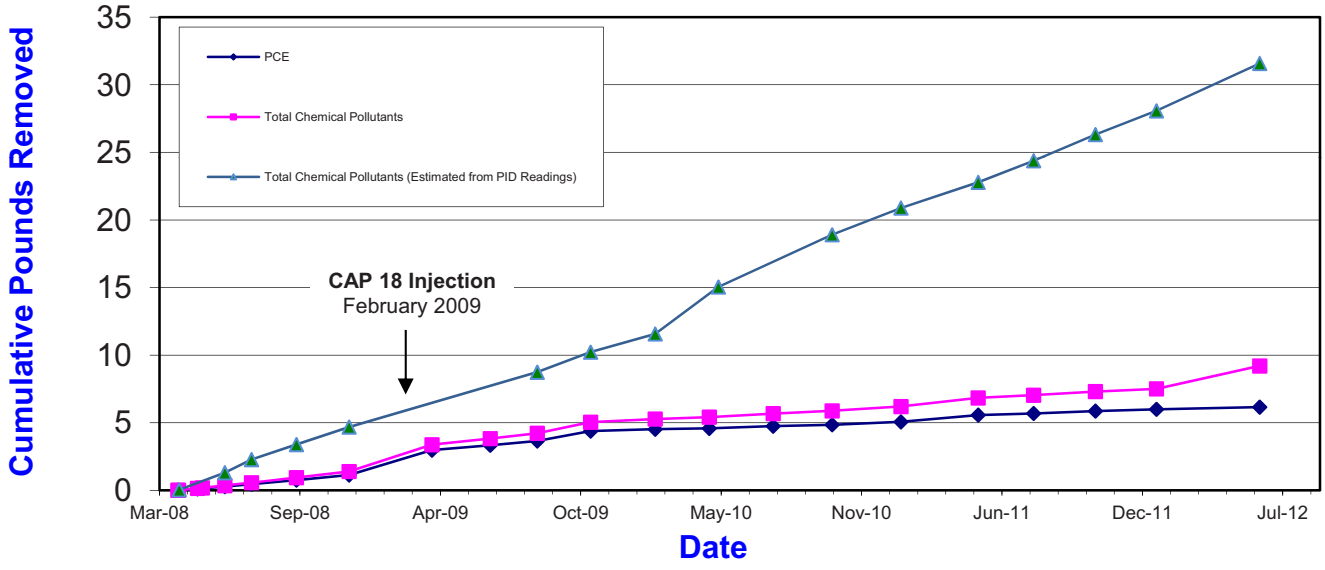
FIGURE

14

PCE Vapor Concentrations Trend - Apartment Building 1 Vapor Mitigation System (B5)



Chemical Pounds Removed - Apartment Building 1 Vapor Mitigation System (B5)



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Date Prepared:	7/3/2012
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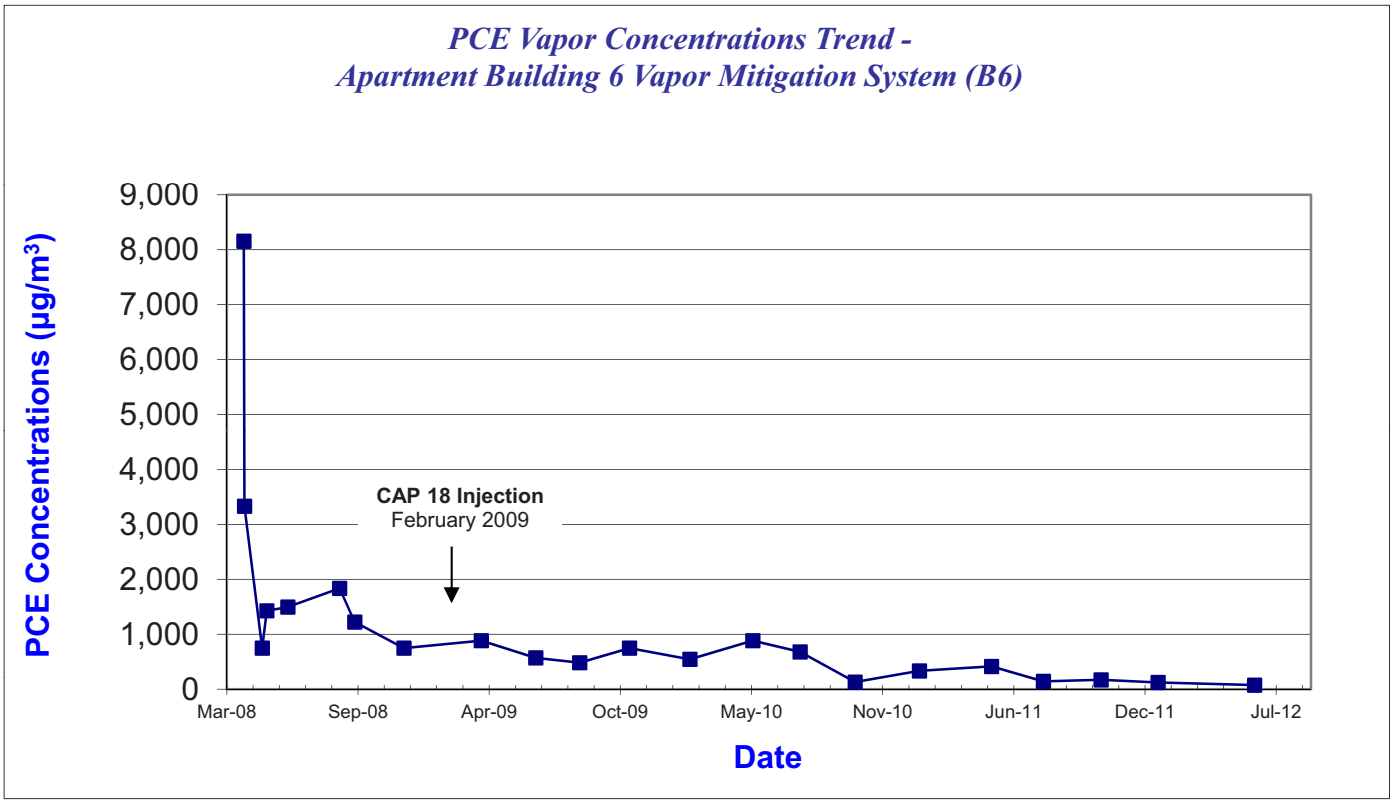
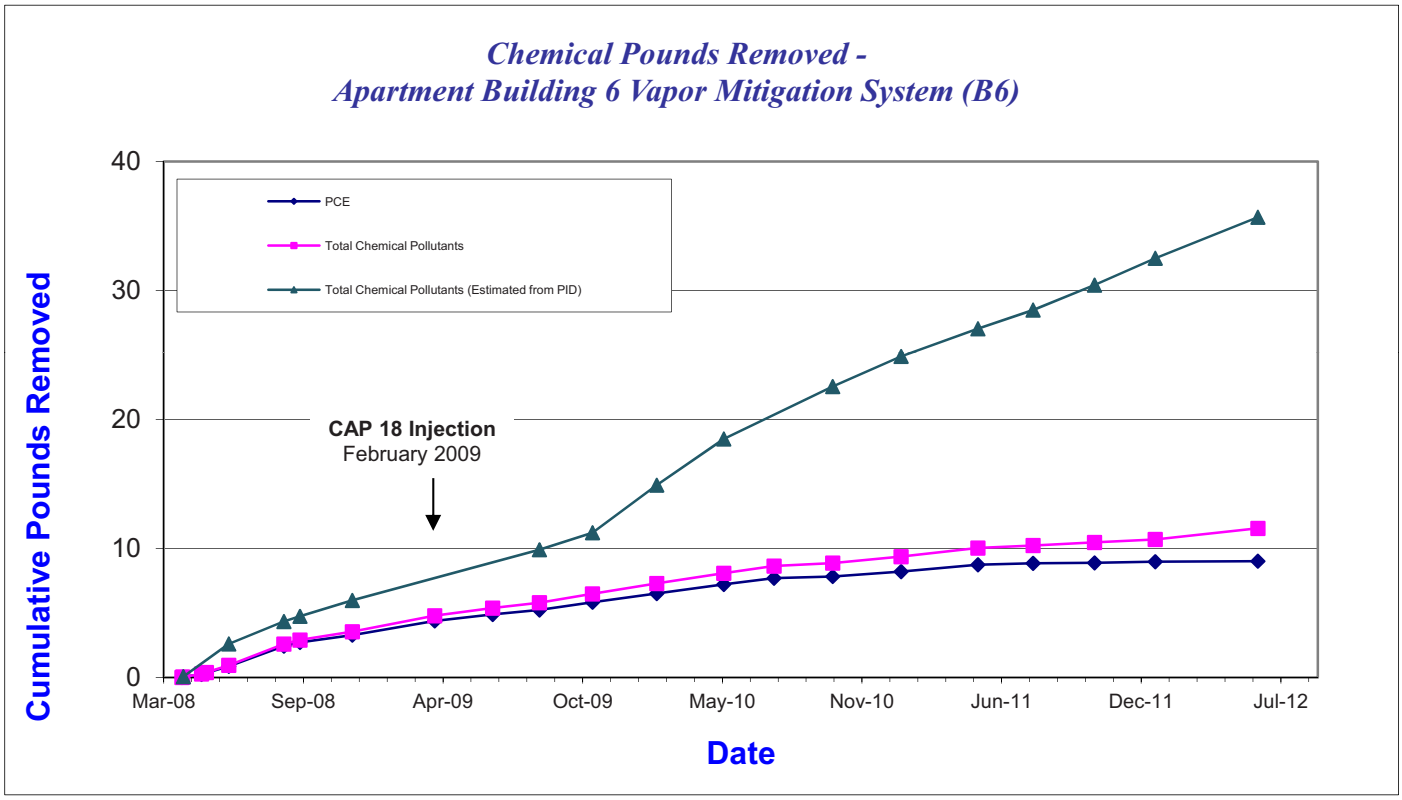
PCE Concentration Trends and Cumulative Pounds Removed
Vapor Mitigation System B-5 (Apartments, Bldg. 1)
Second Quarter 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, IN

FIGURE

15





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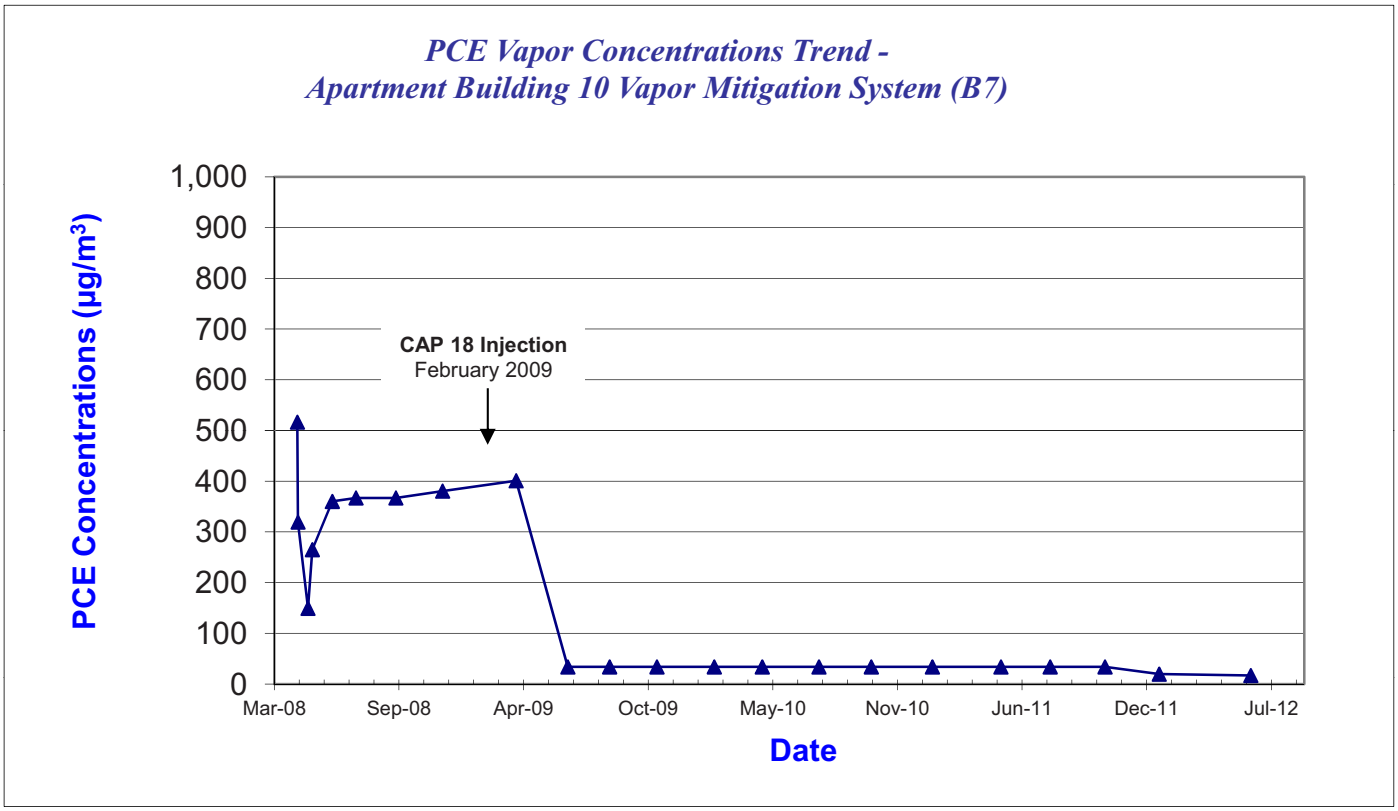
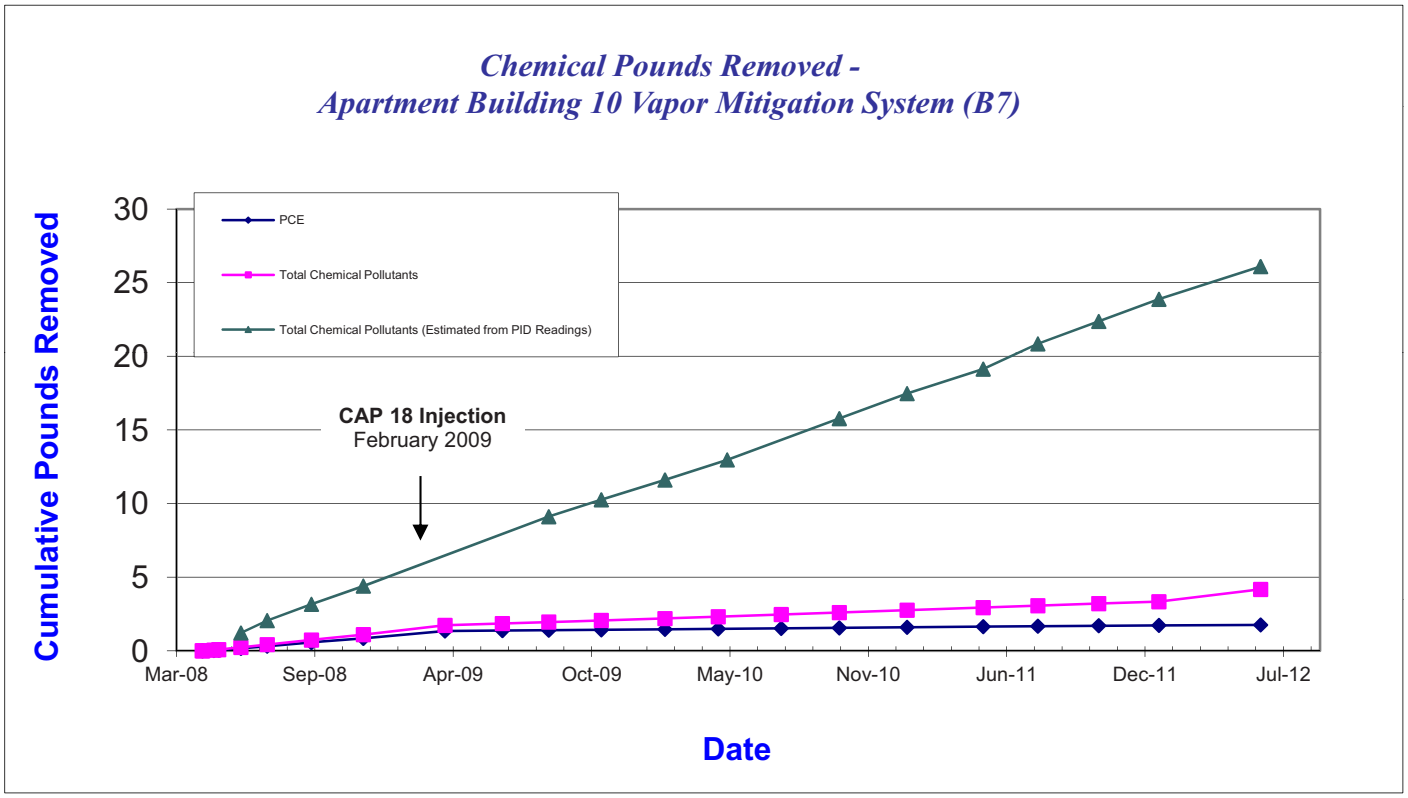
Date Prepared:	7/3/2012
Scale:	no scale

PCE Concentration Trends and Cumulative Pounds Removed
Vapor Mitigation System B-6 (Apartments, Bldg. 6)
Second Quarter 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, IN

FIGURE
16





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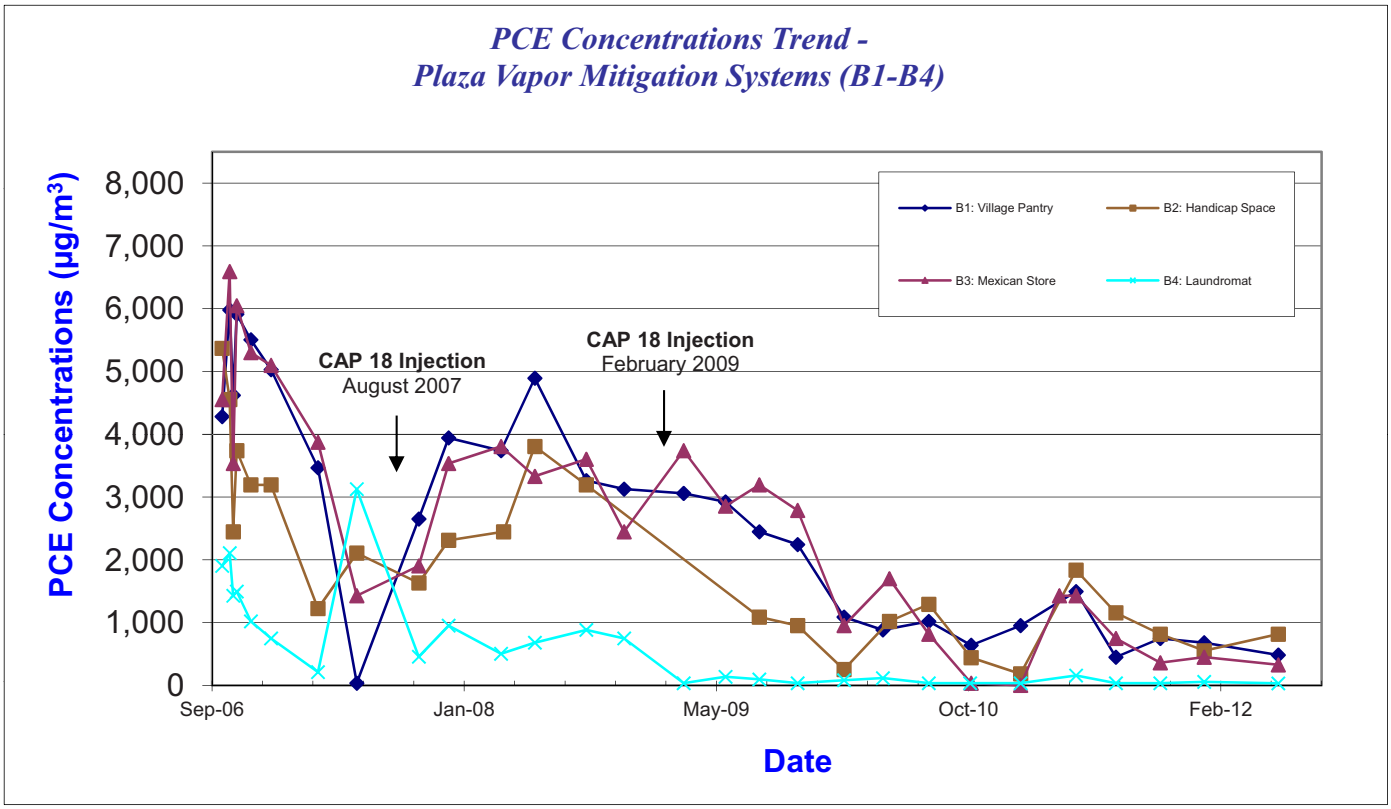
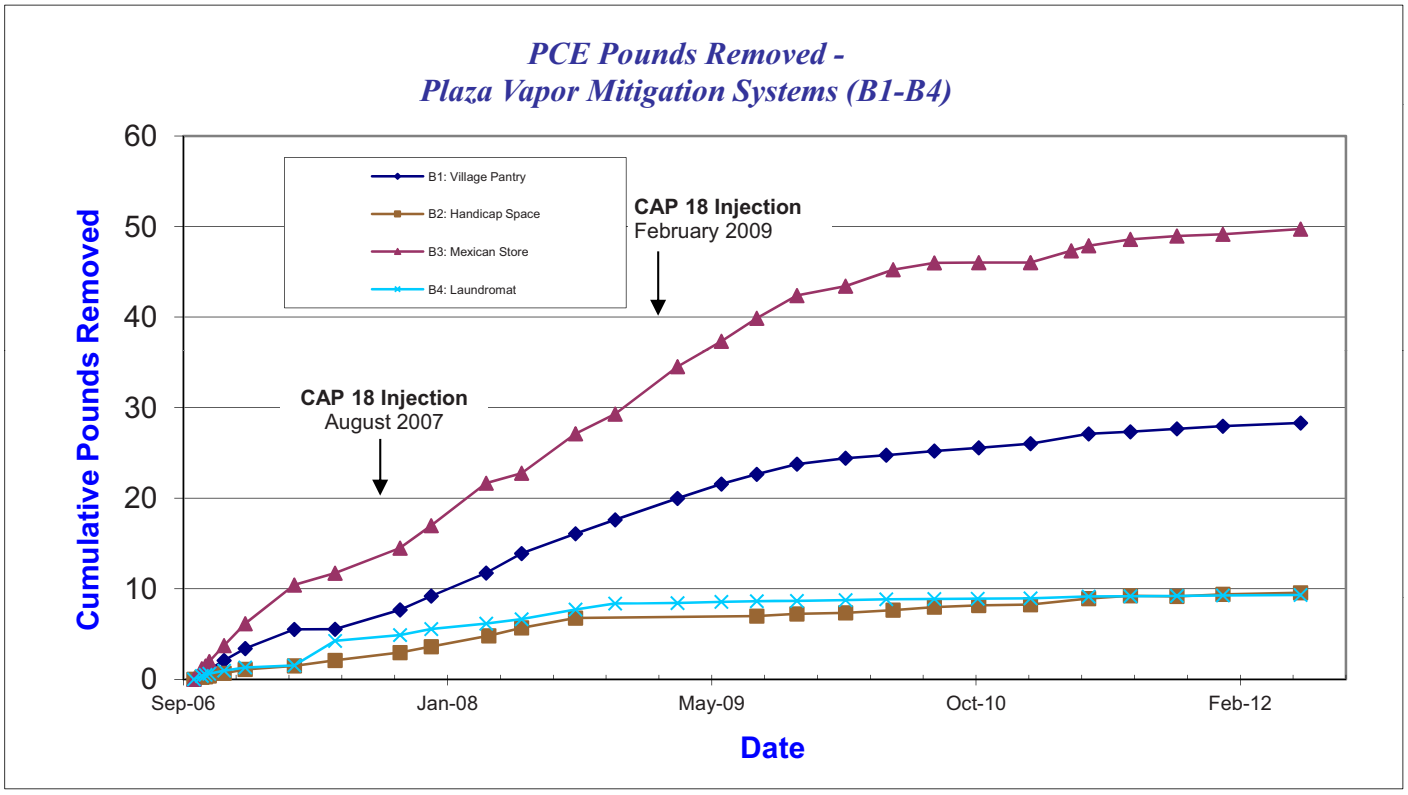
Project Number:	M01046
File:	MI Plaza charts
Date Prepared:	7/3/2012
Scale:	no scale

PCE Concentration Trends and Cumulative Pounds Removed
Vapor Mitigation System B-7 (Apartments, Bldg. 10)
Second Quarter 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, IN

FIGURE

17





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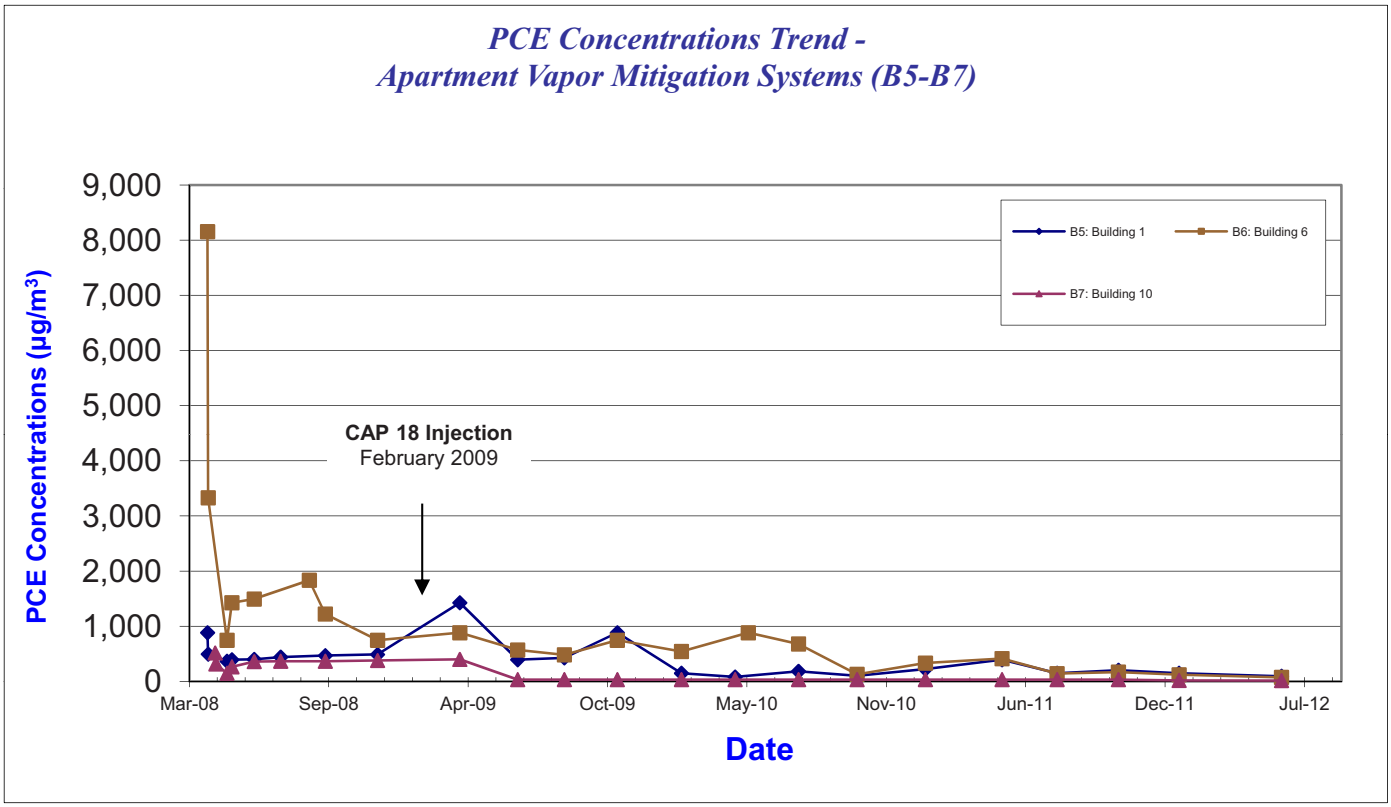
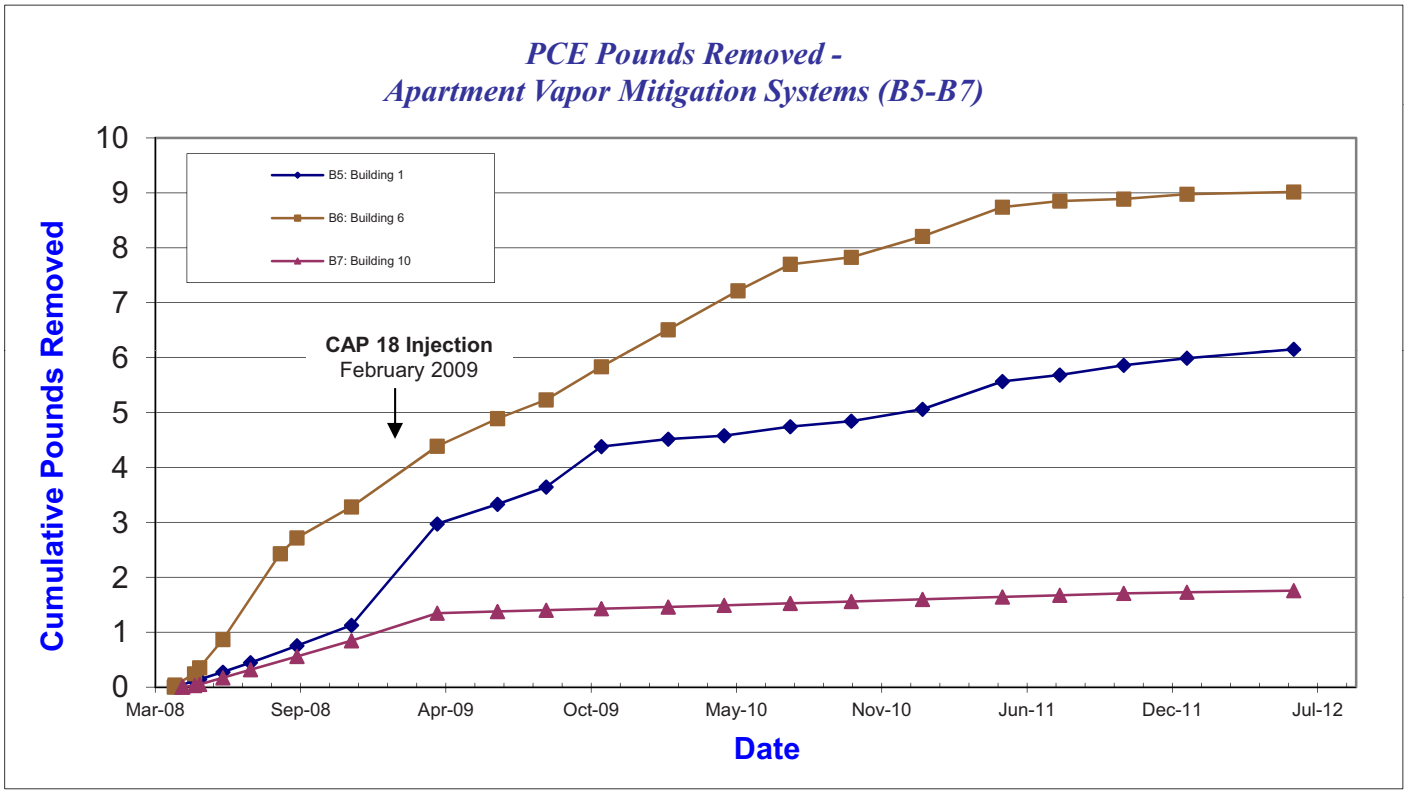
Project Number:	M01046
File:	MI Plaza charts
Date Prepared:	7/3/2012
Scale:	no scale

PCE Concentration Trends and Cumulative Pounds Removed
Vapor Mitigation Systems B1-B4
Second Quarter 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, IN

FIGURE

18





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Project Number:	M01046
File:	MI Plaza charts
Date Prepared:	7/3/2012
Scale:	no scale

PCE Concentration Trends and Cumulative Pounds Removed
Vapor Mitigation Systems B5-B7 (Apartments)
Second Quarter 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, IN

FIGURE

19

APPENDIX A

Laboratory Certificates of Analysis

ANALYTICAL REPORT

Report Date: May 08, 2012

Mark E. Breting, L.P.G.
Mundell & Associates, Inc.
110 South Downey Avenue
Indianapolis, IN 46219

Phone: (317) 630-9060
Fax: (317) 630-9065
E-mail: mbreting@mundellassociates.com

Workorder: **34-1212455**
Project ID: M01046/Michigan Plaza 050312
Purchase Order: M01046

Client Sample ID	Lab ID	Collect Date	Receive Date	Sampling Site
BLDG 1-101	1212455001	04/24/12	05/03/12	Michigan Plaza
Plaza 3823	1212455002	04/24/12	05/03/12	Michigan Plaza
MGW-05	1212455003	04/24/12	05/03/12	Michigan Plaza
Bldg 6-601	1212455004	04/24/12	05/03/12	Michigan Plaza
Plaza 3815	1212455005	04/24/12	05/03/12	Michigan Plaza
Bldg 10-1001	1212455006	04/24/12	05/03/12	Michigan Plaza
Plaza 3807/3809	1212455007	04/24/12	05/03/12	Michigan Plaza
Ambient-Bldg 1	1212455008	04/24/12	05/03/12	Michigan Plaza
Bldg 1-105	1212455009	04/24/12	05/03/12	Michigan Plaza
Plaza 3819	1212455010	04/24/12	05/03/12	Michigan Plaza
Plaza 3811	1212455011	04/24/12	05/03/12	Michigan Plaza
Plaza 3801	1212455012	04/24/12	05/03/12	Michigan Plaza
Ambient-Plaza	1212455013	04/24/12	05/03/12	Michigan Plaza
MGW-1	1212455014	04/24/12	05/03/12	Michigan Plaza
MGW-2	1212455015	04/24/12	05/03/12	Michigan Plaza

ANALYTICAL REPORT

Workorder: 34-1212455
Client: Mundell & Associates, Inc.
Project Manager: Paul E. Pope

Analytical Results

Sample ID: **BLDG 1-101** | Sampling Site: Michigan Plaza | Collected: 04/24/2012
Lab ID: 1212455001 | Media: Summa 6 Liter Canister | Received: 05/03/2012
Matrix: Air | Sampling Parameter: Air Volume 6 L

Analysis Method - EPA TO-15

Preparation: Not Applicable
Analysis: EPA TO-15 SIM, Air
Batch: IVOA/1969 (HBN: 85986)
Analyzed: 05/03/2012 20:27
Instrument ID: 5972-O
Percent Solid: NA
Report Basis: Wet

Analyte	ppb	ug/m³	RL (ppb)	Dilution	Qual.
Vinyl chloride	ND	<0.13	0.050	1	
cis-1,2-Dichloroethene	ND	<0.20	0.050	1	
Trichloroethene	ND	<0.27	0.050	1	
Tetrachloroethene	**0.15**	**1.0**	0.050	1	

Sample ID: **Plaza 3823** | Sampling Site: Michigan Plaza | Collected: 04/24/2012
Lab ID: 1212455002 | Media: Summa 6 Liter Canister | Received: 05/03/2012
Matrix: Air | Sampling Parameter: Air Volume 6 L

Analysis Method - EPA TO-15

Preparation: Not Applicable
Analysis: EPA TO-15 SIM, Air
Batch: IVOA/1969 (HBN: 85986)
Analyzed: 05/03/2012 21:04
Instrument ID: 5972-O
Percent Solid: NA
Report Basis: Wet

Analyte	ppb	ug/m³	RL (ppb)	Dilution	Qual.
Vinyl chloride	ND	<0.13	0.050	1	
cis-1,2-Dichloroethene	ND	<0.20	0.050	1	
Trichloroethene	ND	<0.27	0.050	1	
Tetrachloroethene	**0.063**	**0.43**	0.050	1	

Sample ID: **MGW-05** | Sampling Site: Michigan Plaza | Collected: 04/24/2012
Lab ID: 1212455003 | Media: Summa 6 Liter Canister | Received: 05/03/2012
Matrix: Air | Sampling Parameter: Air Volume 6 L

Analysis Method - EPA TO-15

Preparation: Not Applicable
Analysis: EPA TO-15, Air
Batch: IVOA/1970 (HBN: 85987)
Analyzed: 05/04/2012 09:43
Instrument ID: 5972-W
Percent Solid: NA
Report Basis: Wet

Analyte	ppb	ug/m³	MDL (ppb)	RL (ppb)	Dilution	Qual.
Vinyl chloride	2.2	5.6	1.5	5.0	10	J
cis-1,2-Dichloroethene	**2900**	**11000**	1.5	5.0	10	E
Trichloroethene	**970**	**5200**	1.5	5.0	10	E
Tetrachloroethene	**2600**	**18000**	1.5	5.0	10	E

Results Continued on Next Page

ANALYTICAL REPORT

Workorder: 34-1212455
Client: Mundell & Associates, Inc.
Project Manager: Paul E. Pope

Analytical Results

Sample ID: **MGW-05** | Sampling Site: Michigan Plaza | Collected: 04/24/2012
Lab ID: 1212455003 | Media: Summa 6 Liter Canister | Received: 05/03/2012
Matrix: Air | Sampling Parameter: Air Volume 6 L

Analysis Method - Light Hydrocarbons by GC-FID

Preparation: Not Applicable
Analysis: Light Hydrocarbons by GC-FID, Air
Batch: EGC/3966 (HBN: 86036)
Analyzed: 05/07/2012 23:10
Instrument ID: GCI15
Percent Solid: NA
Report Basis: Wet

Analyte	ppm	RL (ppm)	Dilution	Qual.
Methane	<10	10	1	
Ethylene	<10	10	1	
Ethane	<10	10	1	

Sample ID: **Bldg 6-601** | Sampling Site: Michigan Plaza | Collected: 04/24/2012
Lab ID: 1212455004 | Media: Summa 6 Liter Canister | Received: 05/03/2012
Matrix: Air | Sampling Parameter: Air Volume 6 L

Analysis Method - EPA TO-15

Preparation: Not Applicable
Analysis: EPA TO-15 SIM, Air
Batch: IVOA/1969 (HBN: 85986)
Analyzed: 05/04/2012 14:58
Instrument ID: 5972-O
Percent Solid: NA
Report Basis: Wet

Analyte	ppb	ug/m³	RL (ppb)	Dilution	Qual.
Vinyl chloride	**0.053**	**0.13**	0.050	1	
cis-1,2-Dichloroethene	**0.083**	**0.33**	0.050	1	
Trichloroethene	**0.069**	**0.37**	0.050	1	
Tetrachloroethene	**0.072**	**0.49**	0.050	1	

Sample ID: **Plaza 3815** | Sampling Site: Michigan Plaza | Collected: 04/24/2012
Lab ID: 1212455005 | Media: Summa 6 Liter Canister | Received: 05/03/2012
Matrix: Air | Sampling Parameter: Air Volume 6 L

Analysis Method - EPA TO-15

Preparation: Not Applicable
Analysis: EPA TO-15 SIM, Air
Batch: IVOA/1969 (HBN: 85986)
Analyzed: 05/03/2012 22:54
Instrument ID: 5972-O
Percent Solid: NA
Report Basis: Wet

Analyte	ppb	ug/m³	RL (ppb)	Dilution	Qual.
Vinyl chloride	**0.061**	**0.16**	0.050	1	
cis-1,2-Dichloroethene	**0.12**	**0.46**	0.050	1	
Trichloroethene	**0.052**	**0.28**	0.050	1	
Tetrachloroethene	**0.28**	**1.9**	0.050	1	

ANALYTICAL REPORT

Workorder: 34-1212455
Client: Mundell & Associates, Inc.
Project Manager: Paul E. Pope

Analytical Results

Sample ID: **Bldg 10-1001** | Sampling Site: Michigan Plaza | Collected: 04/24/2012
Lab ID: 1212455006 | Media: Summa 6 Liter Canister | Received: 05/03/2012
Matrix: Air | Sampling Parameter: Air Volume 6 L

Analysis Method - EPA TO-15

Preparation: Not Applicable
Analysis: EPA TO-15 SIM, Air
Batch: IVOA/1969 (HBN: 85986)
Analyzed: 05/03/2012 23:31
Instrument ID: 5972-O
Percent Solid: NA
Report Basis: Wet

Analyte	ppb	ug/m³	RL (ppb)	Dilution	Qual.
Vinyl chloride	ND	<0.13	0.050	1	
cis-1,2-Dichloroethene	**0.064**	**0.25**	0.050	1	
Trichloroethene	ND	<0.27	0.050	1	
Tetrachloroethene	**0.076**	**0.51**	0.050	1	

Sample ID: **Plaza 3807/3809** | Sampling Site: Michigan Plaza | Collected: 04/24/2012
Lab ID: 1212455007 | Media: Summa 6 Liter Canister | Received: 05/03/2012
Matrix: Air | Sampling Parameter: Air Volume 6 L

Analysis Method - EPA TO-15

Preparation: Not Applicable
Analysis: EPA TO-15 SIM, Air
Batch: IVOA/1969 (HBN: 85986)
Analyzed: 05/04/2012 00:07
Instrument ID: 5972-O
Percent Solid: NA
Report Basis: Wet

Analyte	ppb	ug/m³	RL (ppb)	Dilution	Qual.
Vinyl chloride	**0.25**	**0.63**	0.050	1	
cis-1,2-Dichloroethene	ND	<0.20	0.050	1	
Trichloroethene	ND	<0.27	0.050	1	
Tetrachloroethene	**0.31**	**2.1**	0.050	1	

Sample ID: **Ambient-Bldg 1** | Sampling Site: Michigan Plaza | Collected: 04/24/2012
Lab ID: 1212455008 | Media: Summa 6 Liter Canister | Received: 05/03/2012
Matrix: Air | Sampling Parameter: Air Volume 6 L

Analysis Method - EPA TO-15

Preparation: Not Applicable
Analysis: EPA TO-15 SIM, Air
Batch: IVOA/1969 (HBN: 85986)
Analyzed: 05/04/2012 00:44
Instrument ID: 5972-O
Percent Solid: NA
Report Basis: Wet

Analyte	ppb	ug/m³	RL (ppb)	Dilution	Qual.
Vinyl chloride	ND	<0.13	0.050	1	
cis-1,2-Dichloroethene	ND	<0.20	0.050	1	
Trichloroethene	ND	<0.27	0.050	1	
Tetrachloroethene	ND	<0.34	0.050	1	

ANALYTICAL REPORT

Workorder: 34-1212455
Client: Mundell & Associates, Inc.
Project Manager: Paul E. Pope

Analytical Results

Sample ID: **Bldg 1-105** | Sampling Site: Michigan Plaza | Collected: 04/24/2012
Lab ID: 1212455009 | Media: Summa 6 Liter Canister | Received: 05/03/2012
Matrix: Air | Sampling Parameter: Air Volume 6 L

Analysis Method - EPA TO-15

Preparation: Not Applicable
Analysis: EPA TO-15 SIM, Air
Batch: IVOA/1969 (HBN: 85986)
Analyzed: 05/04/2012 01:21
Instrument ID: 5972-O
Percent Solid: NA
Report Basis: Wet

Analyte	ppb	ug/m³	RL (ppb)	Dilution	Qual.
Vinyl chloride	ND	<0.13	0.050	1	
cis-1,2-Dichloroethene	ND	<0.20	0.050	1	
Trichloroethene	**0.068**	**0.36**	0.050	1	
Tetrachloroethene	**0.21**	**1.4**	0.050	1	

Sample ID: **Plaza 3819** | Sampling Site: Michigan Plaza | Collected: 04/24/2012
Lab ID: 1212455010 | Media: Summa 6 Liter Canister | Received: 05/03/2012
Matrix: Air | Sampling Parameter: Air Volume 6 L

Analysis Method - EPA TO-15

Preparation: Not Applicable
Analysis: EPA TO-15 SIM, Air
Batch: IVOA/1969 (HBN: 85986)
Analyzed: 05/04/2012 01:57
Instrument ID: 5972-O
Percent Solid: NA
Report Basis: Wet

Analyte	ppb	ug/m³	RL (ppb)	Dilution	Qual.
Vinyl chloride	**0.071**	**0.18**	0.050	1	
cis-1,2-Dichloroethene	ND	<0.20	0.050	1	
Trichloroethene	ND	<0.27	0.050	1	
Tetrachloroethene	**0.20**	**1.3**	0.050	1	

Sample ID: **Plaza 3811** | Sampling Site: Michigan Plaza | Collected: 04/24/2012
Lab ID: 1212455011 | Media: Summa 6 Liter Canister | Received: 05/03/2012
Matrix: Air | Sampling Parameter: Air Volume 6 L

Analysis Method - EPA TO-15

Preparation: Not Applicable
Analysis: EPA TO-15 SIM, Air
Batch: IVOA/1969 (HBN: 85986)
Analyzed: 05/04/2012 02:34
Instrument ID: 5972-O
Percent Solid: NA
Report Basis: Wet

Analyte	ppb	ug/m³	RL (ppb)	Dilution	Qual.
Vinyl chloride	ND	<0.13	0.050	1	
cis-1,2-Dichloroethene	ND	<0.20	0.050	1	
Trichloroethene	ND	<0.27	0.050	1	
Tetrachloroethene	**0.61**	**4.1**	0.050	1	

ANALYTICAL REPORT

Workorder: 34-1212455
Client: Mundell & Associates, Inc.
Project Manager: Paul E. Pope

Analytical Results

Sample ID: **Plaza 3801** | Sampling Site: Michigan Plaza | Collected: 04/24/2012
Lab ID: 1212455012 | Media: Summa 6 Liter Canister | Received: 05/03/2012
Matrix: Air | Sampling Parameter: Air Volume 6 L

Analysis Method - EPA TO-15

Preparation: Not Applicable
Analysis: EPA TO-15 SIM, Air
Batch: IVOA/1969 (HBN: 85986)
Analyzed: 05/04/2012 03:11
Instrument ID: 5972-O
Percent Solid: NA
Report Basis: Wet

Analyte	ppb	ug/m³	RL (ppb)	Dilution	Qual.
Vinyl chloride	**0.23**	**0.58**	0.050	1	
cis-1,2-Dichloroethene	ND	<0.20	0.050	1	
Trichloroethene	ND	<0.27	0.050	1	
Tetrachloroethene	**0.16**	**1.1**	0.050	1	

Sample ID: **Ambient-Plaza** | Sampling Site: Michigan Plaza | Collected: 04/24/2012
Lab ID: 1212455013 | Media: Summa 6 Liter Canister | Received: 05/03/2012
Matrix: Air | Sampling Parameter: Air Volume 6 L

Analysis Method - EPA TO-15

Preparation: Not Applicable
Analysis: EPA TO-15 SIM, Air
Batch: IVOA/1969 (HBN: 85986)
Analyzed: 05/04/2012 03:47
Instrument ID: 5972-O
Percent Solid: NA
Report Basis: Wet

Analyte	ppb	ug/m³	RL (ppb)	Dilution	Qual.
Vinyl chloride	ND	<0.13	0.050	1	
cis-1,2-Dichloroethene	ND	<0.20	0.050	1	
Trichloroethene	ND	<0.27	0.050	1	
Tetrachloroethene	**0.066**	**0.44**	0.050	1	

Sample ID: **MGW-1** | Sampling Site: Michigan Plaza | Collected: 04/24/2012
Lab ID: 1212455014 | Media: Summa 6 Liter Canister | Received: 05/03/2012
Matrix: Air | Sampling Parameter: Air Volume 6 L

Analysis Method - EPA TO-15

Preparation: Not Applicable
Analysis: EPA TO-15 SIM, Air
Batch: IVOA/1969 (HBN: 85986)
Analyzed: 05/04/2012 04:24
Instrument ID: 5972-O
Percent Solid: NA
Report Basis: Wet

Analyte	ppb	ug/m³	RL (ppb)	Dilution	Qual.
Vinyl chloride	ND	<0.13	0.050	1	
cis-1,2-Dichloroethene	ND	<0.20	0.050	1	
Trichloroethene	ND	<0.27	0.050	1	
Tetrachloroethene	**0.094**	**0.64**	0.050	1	

Results Continued on Next Page

ANALYTICAL REPORT

Workorder: 34-1212455
Client: Mundell & Associates, Inc.
Project Manager: Paul E. Pope

Analytical Results

Sample ID: **MGW-1** | Sampling Site: Michigan Plaza | Collected: 04/24/2012
Lab ID: 1212455014 | Media: Summa 6 Liter Canister | Received: 05/03/2012
Matrix: Air | Sampling Parameter: Air Volume 6 L

Analysis Method - Light Hydrocarbons by GC-FID

Preparation: Not Applicable
Analysis: Light Hydrocarbons by GC-FID, Air
Batch: EGC/3966 (HBN: 86036)
Analyzed: 05/07/2012 23:18
Instrument ID: GCI15
Percent Solid: NA
Report Basis: Wet

Analyte	ppm	RL (ppm)	Dilution	Qual.
Methane	<10	10	1	
Ethylene	<10	10	1	
Ethane	<10	10	1	

Sample ID: **MGW-2** | Sampling Site: Michigan Plaza | Collected: 04/24/2012
Lab ID: 1212455015 | Media: Summa 6 Liter Canister | Received: 05/03/2012
Matrix: Air | Sampling Parameter: Air Volume 6 L

Analysis Method - EPA TO-15

Preparation: Not Applicable
Analysis: EPA TO-15 SIM, Air
Batch: IVOA/1969 (HBN: 85986)
Analyzed: 05/04/2012 08:55
Instrument ID: 5972-O
Percent Solid: NA
Report Basis: Wet

Analyte	ppb	ug/m³	RL (ppb)	Dilution	Qual.
Vinyl chloride	ND	<0.13	0.050	1	
cis-1,2-Dichloroethene	**0.090**	**0.36**	0.050	1	
Trichloroethene	ND	<0.27	0.050	1	
Tetrachloroethene	**0.098**	**0.66**	0.050	1	

Analysis Method - Light Hydrocarbons by GC-FID

Preparation: Not Applicable
Analysis: Light Hydrocarbons by GC-FID, Air
Batch: EGC/3966 (HBN: 86036)
Analyzed: 05/07/2012 23:29
Instrument ID: GCI15
Percent Solid: NA
Report Basis: Wet

Analyte	ppm	RL (ppm)	Dilution	Qual.
Methane	<10	10	1	
Ethylene	<10	10	1	
Ethane	<10	10	1	

Report Authorization

Method	Analyst	Peer Review
EPA TO-15	Lisa M. Reid	Thomas J. Masoian
Light Hydrocarbons by GC-FID	Steven J. Sagers	Mila V. Potekhin

Laboratory Contact Information

ALS Environmental
960 W Levoy Drive
Salt Lake City, Utah 84123

Phone: (801) 266-7700
Email: alslt.lab@ALSGlobal.com
Web: www.alsslc.com

ANALYTICAL REPORT

Workorder: 34-1212455
Client: Mundell & Associates, Inc.
Project Manager: Paul E. Pope

General Lab Comments

The results provided in this report relate only to the items tested.
Samples were received in acceptable condition unless otherwise noted.
Samples have not been blank corrected unless otherwise noted.
This test report shall not be reproduced, except in full, without written approval of ALS.

ALS provides professional analytical services for all samples submitted. ALS is not in a position to interpret the data and assumes no responsibility for the quality of the samples submitted.

All quality control samples processed with the samples in this report yielded acceptable results unless otherwise noted.

ALS is accredited for specific fields of testing (scopes) in the following testing sectors. The quality system implemented at ALS conforms to accreditation requirements and is applied to all analytical testing performed by ALS. The following table lists testing sector, accreditation body, accreditation number and website. Please contact these accrediting bodies or your ALS project manager for the current scope of accreditation that applies to your analytical testing.

Testing Sector	Accreditation Body (Standard)	Certificate Number	Website
Environmental	ACLASS (DoD ELAP)	ADE-1420	http://www.aclasscorp.com
	Utah (NELAC)	DATA1	http://health.utah.gov/lab/labimp/
	Nevada	UT00009	http://ndep.nv.gov/bsdw/labservice.htm
	Oklahoma	UT00009	http://www.deq.state.ok.us/CSDnew/
	Iowa	IA# 376	http://www.iowadnr.gov/InsideDNR/RegulatoryWater.aspx
	Florida (TNI)	E871067	http://www.dep.state.fl.us/labs/bars/sas/qa/
	Texas (TNI)	T104704456-11-1	http://www.tceq.texas.gov/field/qa/lab_accred_certif.html
Industrial Hygiene	AIHA (ISO 17025 & AIHA IHLAP/ELLAP)	101574	http://www.aihaaccreditedlabs.org
Lead Testing:			
CPSC	ACLASS (ISO 17025, CPSC)	ADE-1420	http://www.aclasscorp.com
Soil, Dust, Paint ,Air	AIHA (ISO 17025, AIHA ELLAP and NLLAP)	101574	http://www.aihaaccreditedlabs.org
Dietary Supplements	ACLASS (ISO 17025)	ADE-1420	http://www.aclasscorp.com

Result Symbol Definitions

MDL = Method Detection Limit, a statistical estimate of method/media/instrument sensitivity.
RL = Reporting Limit, a verified value of method/media/instrument sensitivity.
CRDL = Contract Required Detection Limit
Reg. Limit = Regulatory Limit.
ND = Not Detected, testing result not detected above the MDL or RL.
< This testing result is less than the numerical value.
** No result could be reported, see sample comments for details.

Qualifier Symbol Definitions

U = Qualifier indicates that the analyte was not detected above the MDL.
J = Qualifier Indicates that the analyte value is between the MDL and the RL. It is also used to indicate an estimated value for tentatively
B = Qualifier indicates that the analyte was detected in the blank.
E = Qualifier indicates that the analyte result exceeds calibration range.
P = Qualifier indicates that the RPD between the two columns is greater than 40%.

Quality Control Sample
Batch Report

Analysis Information

Workorder: 1212455

Limits: Historical/Performance
Basis: ALS Laboratory Group

Preparation: NA
Batch: NA
Prepared By: NA

Analysis: Light Hydrocarbons by GC-FID
Batch: EGC/3966 (HBN: 86036)
Analyzed By: Steven J. Sagers

Blank

LMB: 273528
Analyzed: 05/07/2012 22:59
Units: ppm

Analyte	Result	RL
Methane	ND	10
Ethylene	ND	10
Ethane	ND	10

Laboratory Control Sample - Laboratory Control Sample Duplicate

LCS: 273529
Analyzed: 05/07/2012 23:36
Units: ppm

LCSD: 273530
Analyzed: 05/07/2012 23:45

Analyte	Result	Target	% Recovery	QC Limits		Result	RPD	QC Limits	
Methane	1120	1000	112	50	150	1010	10.5	0	20

QC Data Approved and Reviewed by

Analyst	Peer Review	Date
Steven J. Sagers	Mila V. Potekhin	5/8/2012

Symbols and Definitions

* - Analyte above reporting limit or outside of control limits
▲ - Sample result is greater than 4 times the spike added
● - Sample and Matrix Duplicate less than 5 times the reporting limit

RPD - Relative % Difference (Spike / Spike Duplicate)
ND - Not Detected
QC results are not adjusted for moisture correction, where applicable

Quality Control Sample
Batch Report

Analysis Information

Workorder: 1212455

Limits: Historical/Performance
Basis: ALS Laboratory Group

Preparation: NA
Batch: NA
Prepared By: NA

Analysis: EPA TO-15
Batch: IVOA/1969 (HBN: 85986)
Analyzed By: Lisa M. Reid

Blank

MB: 273399
Analyzed: 05/03/2012 19:50
Units: ppb

Analyte	Result	RL
Vinyl chloride	ND	0.05
cis-1,2-Dichloroethene	ND	0.05
Trichloroethene	ND	0.05
Tetrachloroethene	ND	0.05

Laboratory Control Sample - Laboratory Control Sample Duplicate

LCS: 273397
Analyzed: 05/03/2012 18:37
Units: ppb

LCSD: 273398
Analyzed: 05/03/2012 19:14

Analyte	Result	Target	% Recovery	QC Limits		Result	RPD	QC Limits	
Vinyl chloride	0.861	0.5	*172	66.1	127.8	0.942	8.99	0	25
cis-1,2-Dichloroethene	0.864	0.5	*173	65.2	131.2	0.928	7.11	0	25
Trichloroethene	1.06	0.5	*212	68.4	123.4	0.96	9.8	0	25
Tetrachloroethene	0.939	0.5	*188	63.6	127.9	0.958	2.02	0	25

Surrogate Recoveries

Surrogate	Bromofluorobenzene		
QC Limits	48.8	151.8	
Units	ppb		
Lab ID	Result	Target	% Recovery
273397-LCS	0.519	0.5	104
273398-LCSD	0.531	0.5	106
273399-MB	0.445	0.5	88.9
1212455001	0.478	0.5	95.7
1212455002	0.433	0.5	86.7
1212455004	0.536	0.5	107
1212455005	0.47	0.5	93.9
1212455006	0.423	0.5	84.5
1212455007	0.474	0.5	94.9
1212455008	0.41	0.5	82.1
1212455009	0.472	0.5	94.5
1212455010	0.54	0.5	108
1212455011	0.591	0.5	118
1212455012	0.462	0.5	92.4
1212455013	0.396	0.5	79.2
1212455014	0.489	0.5	97.7
1212455015	0.487	0.5	97.4

Quality Control Sample
Batch Report

Analysis Information

Workorder: **1212455**

Limits:	Historical/Performance	**Preparation:**	NA	**Analysis:**	EPA TO-15
Basis:	ALS Laboratory Group	**Batch:**	NA	**Batch:**	IVOA/1969 (HBN: 85986)
		Prepared By:	NA	**Analyzed By:**	Lisa M. Reid

QC Data Approved and Reviewed by

Lisa M. Reid	Thomas J. Masoian	5/7/2012
Analyst	**Peer Review**	**Date**

Symbols and Definitions

* - Analyte above reporting limit or outside of control limits
▲ - Sample result is greater than 4 times the spike added
● - Sample and Matrix Duplicate less than 5 times the reporting limit

RPD - Relative % Difference (Spike / Spike Duplicate)
ND - Not Detected
QC results are not adjusted for moisture correction, where applicable

Quality Control Sample
Batch Report

Analysis Information

Workorder: 1212455

Limits: Historical/Performance
Basis: ALS Laboratory Group

Preparation: NA
Batch: NA
Prepared By: NA

Analysis: EPA TO-15
Batch: IVOA/1970 (HBN: 85987)
Analyzed By: Lisa M. Reid

Blank

MB: 273404
Analyzed: 05/03/2012 14:30
Units: ppb

Analyte	Result	MDL	RL
Vinyl chloride	ND	0.15	0.5
cis-1,2-Dichloroethene	ND	0.15	0.5
Trichloroethene	ND	0.15	0.5
Tetrachloroethene	0.188	0.15	0.5

Laboratory Control Sample - Laboratory Control Sample Duplicate

LCS: 273402
Analyzed: 05/03/2012 11:14
Units: ppb

LCSD: 273403
Analyzed: 05/03/2012 13:05

Analyte	Result	Target	% Recovery	QC Limits		Result	RPD	QC Limits	
Vinyl chloride	7.82	10	78.2	61.8	132.3	8.49	8.21	0	25
cis-1,2-Dichloroethene	9.66	10	96.6	69.8	124.3	10.3	6.17	0	25
Trichloroethene	9.29	10	92.9	62.4	126.8	9.91	6.5	0	25
Tetrachloroethene	9.44	10	94.4	60.7	126.6	8.98	4.96	0	25

Surrogate Recoveries

Surrogate	Bromofluorobenzene		
QC Limits	67.7	129.9	
Units	ppb		
Lab ID	Result	Target	% Recovery
273402-LCS	22.7	20	113
273403-LCSD	22.5	20	112
1212455003	21.1	20	105

QC Data Approved and Reviewed by

Lisa M. Reid	Thomas J. Masoian	5/7/2012
Analyst	**Peer Review**	**Date**

Symbols and Definitions

* - Analyte above reporting limit or outside of control limits
▲ - Sample result is greater than 4 times the spike added
● - Sample and Matrix Duplicate less than 5 times the reporting limit

RPD - Relative % Difference (Spike / Spike Duplicate)
ND - Not Detected
QC results are not adjusted for moisture correction, where applicable

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Canister Chain of Custody

Environmental Division

Client:	Mundell & Associates
Account No:	07003

Project/Job/Task: Michigan Plaza

Please do not apply adhesive labels directly on Canisters

Manilla tags are provided, attached to Canisters for your convenience, to apply adhesive labels

Canister Serial No.:	Date Cleaned	Initial Vacuum (inches of Hg vacuum)	VFR flow rate (ml/min)	Initials:	Field Vacuum before sampling (inches of Hg vacuum)	Final Vacuum after sampling (Inches of Hg vacuum)	Client Sample Identification	Other Client Information	ALS use only
0305	04-02-12	>25		L	-30 (+)	-1	AMBIENT - PLAZA	(24hr)	
VFR Serial No.:									
0360	04-16-12		~~160~~ 140	L					
0088	↓		L 04-16-12	↓					
0331	↓		↓	↓					

40 min

Original Field Sample Chain-of-Custody

Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Reason for Transfer/Storage Location
[signature]	04-16-12 16:00	Mark Bretzy	Shipment to Mundell/Mundell
Mark Bretzy	4/27/12 16:30		

Return to:
ALS Laboratory Group
960 W. LeVoy Drive
Salt Lake City, UT 84123
800-356-9135

If canisters are kept for longer than the original project scheduled sampling, a $40 per can - per week rental fee will be assessed. If a project is cancelled after ALS has shipped cans, in addition to the cost of the initial shipping, a $40 weekly rental fee will be charged for each unused can until they are returned to ALS.

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division

Canister Chain of Custody

Client: Mundell + Associates
Account No: 07003

Project/Job/Task: Michigan Plaza

Please do not apply adhesive labels directly on Canisters
Manilla tags are provided, attached to Canisters for your convenience, to apply adhesive labels

Canister Serial No.:	Date Cleaned	Initial Vacuum (inches of Hg vacuum)	VFR flow rate (ml/min)	Initials:	Field Vacuum before sampling (inches of Hg vacuum)	Final Vacuum after sampling (Inches of Hg vacuum)	Client Sample Identification	Other Client Information	ALS use only
0289									
0381	03-29-12	>25		R	NOT USED				
0128	03-29-12				-30	-2	BLDG 1-101	(24 hr)	
~~0325~~ (MB) 4/27/12	04-09-12				-30 (4)	-4	PLAZA 3823	(24 hr)	
0260	04-02-12				-28	-2.5	MGW-05	(40 min)	
0362	03-29-12				-28.5	-3	MGW-01	(40 min)	
VFR Serial No.:									
0338	04-16-12		~4	R					
0148									
0407									
0346									
0354									

24 hr

Original Field Sample Chain-of-Custody

Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Reason for Transfer/Storage Location
[illegible]	04-16-12 16:00	Mark Breiling	Shipment to Mundell/Mundell
Mark Breiling	4/27/12 16:30		Shipment to lab

Return to:
ALS Laboratory Group
960 W. LeVoy Drive
Salt Lake City, UT 84123
800-356-9135

If canisters are kept for longer than the original project scheduled sampling, a $40 per can - per week rental fee will be assessed. If a project is cancelled after ALS has shipped cans, in addition to the cost of the initial shipping, a $40 weekly rental fee will be charged for each unused can until they are returned to ALS.

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division

Canister Chain of Custody

Client: Mundell & Associates	Project/Job/Task: Michigan Plaza
Account No: 07003	

Please do not apply adhesive labels directly on Canisters

Manilla tags are provided, attached to Canisters for your convenience, to apply adhesive labels

Canister Serial No.:	Date Cleaned	Initial Vacuum (inches of Hg vacuum)	VFR flow rate (ml/min)	Initials:	Field Vacuum before sampling (inches of Hg vacuum)	Final Vacuum after sampling (Inches of Hg vacuum)	Client Sample Identification	Other Client Information	ALS use only
0135	04-02-12	>25			-29	-1	BLDG 6-601	(24 hr)	
0359	04-02-12				-30	-2	PLAZA 3815	(24 hr)	
0118	04-09-12				-30	-1.5	BLDG 10-1001	(24 hr)	
0459	04-02-12				-27	-2	MGW-02	(40 min)	
0457	04-09-12				-30	-2	PLAZA 3807/3809	(24 hr)	
VFR Serial No.:									
0094	04-16-12		~4						
0426									
0467									
0330									
0194									

24 hrs

Original Field Sample Chain-of-Custody

Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Reason for Transfer/Storage Location
[signature]	04-16-12 16:00	Mark Brezing	shipment to mundell/munde
Mark Brezing	4/27/12 16:30		shipment to lab

Return to:
ALS Laboratory Group
960 W. LeVoy Drive
Salt Lake City, UT 84123
800-356-9135

If canisters are kept for longer than the original project scheduled sampling, a $40 per can - per week rental fee will be assessed. If a project is cancelled after ALS has shipped cans, in addition to the cost of the initial shipping, a $40 weekly rental fee will be charged for each unused can until they are returned to ALS.

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Canister Chain of Custody

Environmental Division

Client: Mundell & Associates
Account No: 07003

Project/Job/Task: Michigan Plaza

Please do not apply adhesive labels directly on Canisters
Manilla tags are provided, attached to Canisters for your convenience, to apply adhesive labels

Canister Serial No.:	Date Cleaned	Initial Vacuum (inches of Hg vacuum)	VFR flow rate (ml/min)	Initials:	Field Vacuum before sampling (inches of Hg vacuum)	Final Vacuum after sampling (Inches of Hg vacuum)	Client Sample Identification	Other Client Information	ALS use only
0468	03-28-12	>25		R	-30(+)	-1	AMBIENT-BLDG 1	(24 hr)	
0146	03-28-12	>25			-30	-2	BLDG 1-105	(24 hr)	
0290	04-09-12				-29	-1.5	PLAZA 3819	(24 hr)	
0444	03-29-12				-30 (+)	-1.5	PLAZA 3811	(24 hr)	
0436	04-09-12				-30	-1	PLAZA 3801	(24 hr)	
VFR Serial No.:									
0195	04-16-12		~4	R					
0492									
0333									

24 hr

Original Field Sample Chain-of-Custody

Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Reason for Transfer/Storage Location
[signature]	04-16-12 (6:12)	Mark Breting	Shipment to Mundell/Mundell
Mark Breting	4/27/12 16:30		

Return to:
ALS Laboratory Group
960 W. LeVoy Drive
Salt Lake City, UT 84123
800-356-9135

If canisters are kept for longer than the original project scheduled sampling, a $40 per can - per week rental fee will be assessed. If a project is cancelled after ALS has shipped cans, in addition to the cost of the initial shipping, a $40 weekly rental fee will be charged for each unused can until they are returned to ALS.

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May 04, 2012

Mr. Mark Breting
Mundell & Associates
110 S. Downey Ave.
Indianapolis, IN 46228

RE: Project: MI Plaza M01046
Pace Project No.: 5061938

Dear Mr. Breting:
Enclosed are the analytical results for sample(s) received by the laboratory on April 25, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Sayer

Tina Sayer

tina.sayer@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: MI Plaza M01046
Pace Project No.: 5061938

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana/NELAC Certification #: 04076
Ohio VAP: CL0065
Pennsylvania: 68-04991
West Virginia Certification #: 330

Ohio Certification IDs
1233 Dublin Road, Columbus, OH 43215
Indiana Drinking Water Certification #: C-OH-11
NVLAP Certification #: 90132
Ohio Drinking Water Certification #: 1030
Ohio Microbiology Certification #: 943

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SAMPLE SUMMARY

Project: MI Plaza M01046
Pace Project No.: 5061938

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5061938001	**MMW-6D**	Water	04/23/12 12:45	04/25/12 10:25
5061938002	**MMW-5D**	Water	04/23/12 13:16	04/25/12 10:25
5061938003	**MMW-4D**	Water	04/23/12 13:43	04/25/12 10:25
5061938004	**MMW-3S**	Water	04/23/12 15:05	04/25/12 10:25
5061938005	**MMW-2S**	Water	04/23/12 15:32	04/25/12 10:25
5061938006	**MMW-12S**	Water	04/23/12 15:58	04/25/12 10:25
5061938007	**MMW-14D**	Water	04/23/12 16:33	04/25/12 10:25
5061938008	**MMW-13D**	Water	04/24/12 09:32	04/25/12 10:25
5061938009	**MMW-11S**	Water	04/24/12 10:09	04/25/12 10:25
5061938010	**MMW-11D**	Water	04/24/12 10:42	04/25/12 10:25
5061938011	**MMW-P-09D**	Water	04/24/12 11:38	04/25/12 10:25
5061938012	**MMW-P-09S**	Water	04/24/12 11:59	04/25/12 10:25
5061938013	**MMW-C-02S**	Water	04/24/12 12:31	04/25/12 10:25
5061938014	**MMW-C-01**	Water	04/24/12 13:01	04/25/12 10:25
5061938015	**MMW-10S**	Water	04/24/12 13:46	04/25/12 10:25
5061938016	**Trip Blank**	Water	04/24/12 08:00	04/25/12 10:25

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SAMPLE ANALYTE COUNT

Project: MI Plaza M01046
Pace Project No.: 5061938

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5061938001	**MMW-6D**	EPA 8260	JLZ	18
5061938002	**MMW-5D**	EPA 8260	JLZ	18
5061938003	**MMW-4D**	EPA 8260	HEB	18
5061938004	**MMW-3S**	EPA 8260	JLZ	18
5061938005	**MMW-2S**	EPA 8260	HEB	18
5061938006	**MMW-12S**	EPA 8260	HEB	18
5061938007	**MMW-14D**	EPA 8260	ALA, HEB	18
5061938008	**MMW-13D**	EPA 8260	HEB	18
5061938009	**MMW-11S**	EPA 8260	HEB	18
5061938010	**MMW-11D**	EPA 8260	HEB	18
5061938011	**MMW-P-09D**	EPA 8260	ALA	18
5061938012	**MMW-P-09S**	EPA 8260	HEB	18
5061938013	**MMW-C-02S**	EPA 8260	HEB	18
5061938014	**MMW-C-01**	EPA 8260	ALA	18
		SM 5310C	GR1	1
		EPA 353.2	ILP	2
		ASTM D516-90,02	TPD	1
5061938015	**MMW-10S**	EPA 8260	HEB	18
		SM 5310C	GR1	1
		EPA 353.2	ILP	2
		ASTM D516-90,02	TPD	1
5061938016	**Trip Blank**	EPA 8260	HEB	18

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5061938

Sample: MMW-6D **Lab ID: 5061938001** Collected: 04/23/12 12:45 Received: 04/25/12 10:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		04/27/12 20:18	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		04/27/12 20:18	56-23-5	
Chloroform	ND	ug/L	5.0	1		04/27/12 20:18	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/27/12 20:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/27/12 20:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/27/12 20:18	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		04/27/12 20:18	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		04/27/12 20:18	75-09-2	
Naphthalene	ND	ug/L	5.0	1		04/27/12 20:18	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		04/27/12 20:18	127-18-4	
Toluene	ND	ug/L	5.0	1		04/27/12 20:18	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/27/12 20:18	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		04/27/12 20:18	79-01-6	
Vinyl chloride	**38.5**	ug/L	2.0	1		04/27/12 20:18	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		04/27/12 20:18	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	83-123	1		04/27/12 20:18	1868-53-7	
4-Bromofluorobenzene (S)	99	%.	72-125	1		04/27/12 20:18	460-00-4	
Toluene-d8 (S)	111	%.	81-114	1		04/27/12 20:18	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5061938

Sample: MMW-5D **Lab ID: 5061938002** Collected: 04/23/12 13:16 Received: 04/25/12 10:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		04/27/12 20:50	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		04/27/12 20:50	56-23-5	
Chloroform	ND	ug/L	5.0	1		04/27/12 20:50	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/27/12 20:50	75-35-4	
cis-1,2-Dichloroethene	**228**	ug/L	5.0	1		04/27/12 20:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/27/12 20:50	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		04/27/12 20:50	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		04/27/12 20:50	75-09-2	
Naphthalene	ND	ug/L	5.0	1		04/27/12 20:50	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		04/27/12 20:50	127-18-4	
Toluene	ND	ug/L	5.0	1		04/27/12 20:50	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/27/12 20:50	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		04/27/12 20:50	79-01-6	
Vinyl chloride	**126**	ug/L	2.0	1		04/27/12 20:50	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		04/27/12 20:50	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	83-123	1		04/27/12 20:50	1868-53-7	
4-Bromofluorobenzene (S)	91	%.	72-125	1		04/27/12 20:50	460-00-4	
Toluene-d8 (S)	106	%.	81-114	1		04/27/12 20:50	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5061938

Sample: MMW-4D **Lab ID: 5061938003** Collected: 04/23/12 13:43 Received: 04/25/12 10:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		04/29/12 12:13	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		04/29/12 12:13	56-23-5	
Chloroform	ND	ug/L	5.0	1		04/29/12 12:13	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/29/12 12:13	75-35-4	
cis-1,2-Dichloroethene	**338**	ug/L	125	25		04/29/12 12:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/29/12 12:13	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		04/29/12 12:13	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		04/29/12 12:13	75-09-2	
Naphthalene	ND	ug/L	5.0	1		04/29/12 12:13	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		04/29/12 12:13	127-18-4	
Toluene	ND	ug/L	5.0	1		04/29/12 12:13	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/29/12 12:13	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		04/29/12 12:13	79-01-6	
Vinyl chloride	**176**	ug/L	2.0	1		04/29/12 12:13	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		04/29/12 12:13	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	83-123	1		04/29/12 12:13	1868-53-7	
4-Bromofluorobenzene (S)	94	%.	72-125	1		04/29/12 12:13	460-00-4	
Toluene-d8 (S)	121	%.	81-114	1		04/29/12 12:13	2037-26-5	S5

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5061938

Sample: MMW-3S **Lab ID: 5061938004** Collected: 04/23/12 15:05 Received: 04/25/12 10:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		04/27/12 21:22	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		04/27/12 21:22	56-23-5	
Chloroform	ND	ug/L	5.0	1		04/27/12 21:22	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/27/12 21:22	75-35-4	
cis-1,2-Dichloroethene	**5.8**	ug/L	5.0	1		04/27/12 21:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/27/12 21:22	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		04/27/12 21:22	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		04/27/12 21:22	75-09-2	
Naphthalene	ND	ug/L	5.0	1		04/27/12 21:22	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		04/27/12 21:22	127-18-4	
Toluene	ND	ug/L	5.0	1		04/27/12 21:22	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/27/12 21:22	71-55-6	
Trichloroethene	**9.9**	ug/L	5.0	1		04/27/12 21:22	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		04/27/12 21:22	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		04/27/12 21:22	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	83-123	1		04/27/12 21:22	1868-53-7	
4-Bromofluorobenzene (S)	99	%.	72-125	1		04/27/12 21:22	460-00-4	
Toluene-d8 (S)	109	%.	81-114	1		04/27/12 21:22	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5061938

Sample: MMW-2S **Lab ID: 5061938005** Collected: 04/23/12 15:32 Received: 04/25/12 10:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		04/29/12 13:17	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		04/29/12 13:17	56-23-5	
Chloroform	ND	ug/L	5.0	1		04/29/12 13:17	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/29/12 13:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/29/12 13:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/29/12 13:17	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		04/29/12 13:17	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		04/29/12 13:17	75-09-2	
Naphthalene	ND	ug/L	5.0	1		04/29/12 13:17	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		04/29/12 13:17	127-18-4	
Toluene	ND	ug/L	5.0	1		04/29/12 13:17	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/29/12 13:17	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		04/29/12 13:17	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		04/29/12 13:17	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		04/29/12 13:17	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%.	83-123	1		04/29/12 13:17	1868-53-7	
4-Bromofluorobenzene (S)	108	%.	72-125	1		04/29/12 13:17	460-00-4	
Toluene-d8 (S)	105	%.	81-114	1		04/29/12 13:17	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5061938

Sample: MMW-12S **Lab ID: 5061938006** Collected: 04/23/12 15:58 Received: 04/25/12 10:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		04/29/12 13:49	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		04/29/12 13:49	56-23-5	
Chloroform	ND	ug/L	5.0	1		04/29/12 13:49	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/29/12 13:49	75-35-4	
cis-1,2-Dichloroethene	**45.2**	ug/L	5.0	1		04/29/12 13:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/29/12 13:49	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		04/29/12 13:49	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		04/29/12 13:49	75-09-2	
Naphthalene	ND	ug/L	5.0	1		04/29/12 13:49	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		04/29/12 13:49	127-18-4	
Toluene	ND	ug/L	5.0	1		04/29/12 13:49	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/29/12 13:49	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		04/29/12 13:49	79-01-6	
Vinyl chloride	**2.6**	ug/L	2.0	1		04/29/12 13:49	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		04/29/12 13:49	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	83-123	1		04/29/12 13:49	1868-53-7	
4-Bromofluorobenzene (S)	95	%.	72-125	1		04/29/12 13:49	460-00-4	
Toluene-d8 (S)	106	%.	81-114	1		04/29/12 13:49	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5061938

Sample: MMW-14D **Lab ID: 5061938007** Collected: 04/23/12 16:33 Received: 04/25/12 10:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		04/29/12 14:54	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		04/29/12 14:54	56-23-5	
Chloroform	ND	ug/L	5.0	1		04/29/12 14:54	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/29/12 14:54	75-35-4	
cis-1,2-Dichloroethene	**996**	ug/L	50.0	10		05/02/12 02:45	156-59-2	
trans-1,2-Dichloroethene	**11.0**	ug/L	5.0	1		04/29/12 14:54	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		04/29/12 14:54	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		04/29/12 14:54	75-09-2	
Naphthalene	ND	ug/L	5.0	1		04/29/12 14:54	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		04/29/12 14:54	127-18-4	
Toluene	ND	ug/L	5.0	1		04/29/12 14:54	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/29/12 14:54	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		04/29/12 14:54	79-01-6	
Vinyl chloride	**79.6**	ug/L	2.0	1		04/29/12 14:54	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		04/29/12 14:54	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%.	83-123	1		04/29/12 14:54	1868-53-7	
4-Bromofluorobenzene (S)	93	%.	72-125	1		04/29/12 14:54	460-00-4	
Toluene-d8 (S)	105	%.	81-114	1		04/29/12 14:54	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5061938

Sample: MMW-13D **Lab ID: 5061938008** Collected: 04/24/12 09:32 Received: 04/25/12 10:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		04/29/12 15:25	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		04/29/12 15:25	56-23-5	
Chloroform	ND	ug/L	5.0	1		04/29/12 15:25	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/29/12 15:25	75-35-4	
cis-1,2-Dichloroethene	**422**	ug/L	125	25		04/29/12 15:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/29/12 15:25	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		04/29/12 15:25	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		04/29/12 15:25	75-09-2	
Naphthalene	ND	ug/L	5.0	1		04/29/12 15:25	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		04/29/12 15:25	127-18-4	
Toluene	ND	ug/L	5.0	1		04/29/12 15:25	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/29/12 15:25	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		04/29/12 15:25	79-01-6	
Vinyl chloride	**46.7**	ug/L	2.0	1		04/29/12 15:25	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		04/29/12 15:25	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	83-123	1		04/29/12 15:25	1868-53-7	
4-Bromofluorobenzene (S)	96	%.	72-125	1		04/29/12 15:25	460-00-4	
Toluene-d8 (S)	109	%.	81-114	1		04/29/12 15:25	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5061938

Sample: MMW-11S **Lab ID: 5061938009** Collected: 04/24/12 10:09 Received: 04/25/12 10:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		04/29/12 16:29	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		04/29/12 16:29	56-23-5	
Chloroform	ND	ug/L	5.0	1		04/29/12 16:29	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/29/12 16:29	75-35-4	
cis-1,2-Dichloroethene	**42.5**	ug/L	5.0	1		04/29/12 16:29	156-59-2	
trans-1,2-Dichloroethene	**5.1**	ug/L	5.0	1		04/29/12 16:29	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		04/29/12 16:29	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		04/29/12 16:29	75-09-2	
Naphthalene	ND	ug/L	5.0	1		04/29/12 16:29	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		04/29/12 16:29	127-18-4	
Toluene	ND	ug/L	5.0	1		04/29/12 16:29	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/29/12 16:29	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		04/29/12 16:29	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		04/29/12 16:29	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		04/29/12 16:29	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	108	%.	83-123	1		04/29/12 16:29	1868-53-7	
4-Bromofluorobenzene (S)	88	%.	72-125	1		04/29/12 16:29	460-00-4	
Toluene-d8 (S)	104	%.	81-114	1		04/29/12 16:29	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5061938

Sample: MMW-11D **Lab ID: 5061938010** Collected: 04/24/12 10:42 Received: 04/25/12 10:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		04/29/12 20:48	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		04/29/12 20:48	56-23-5	
Chloroform	ND	ug/L	5.0	1		04/29/12 20:48	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/29/12 20:48	75-35-4	
cis-1,2-Dichloroethene	**186**	ug/L	5.0	1		04/29/12 20:48	156-59-2	
trans-1,2-Dichloroethene	**13.0**	ug/L	5.0	1		04/29/12 20:48	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		04/29/12 20:48	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		04/29/12 20:48	75-09-2	
Naphthalene	ND	ug/L	5.0	1		04/29/12 20:48	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		04/29/12 20:48	127-18-4	
Toluene	ND	ug/L	5.0	1		04/29/12 20:48	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/29/12 20:48	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		04/29/12 20:48	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		04/29/12 20:48	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		04/29/12 20:48	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	92	%.	83-123	1		04/29/12 20:48	1868-53-7	
4-Bromofluorobenzene (S)	91	%.	72-125	1		04/29/12 20:48	460-00-4	
Toluene-d8 (S)	101	%.	81-114	1		04/29/12 20:48	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5061938

Sample: MMW-P-09D **Lab ID: 5061938011** Collected: 04/24/12 11:38 Received: 04/25/12 10:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		05/02/12 03:18	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		05/02/12 03:18	56-23-5	
Chloroform	ND	ug/L	5.0	1		05/02/12 03:18	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/02/12 03:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/02/12 03:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/02/12 03:18	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		05/02/12 03:18	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		05/02/12 03:18	75-09-2	
Naphthalene	ND	ug/L	5.0	1		05/02/12 03:18	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		05/02/12 03:18	127-18-4	
Toluene	ND	ug/L	5.0	1		05/02/12 03:18	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/02/12 03:18	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		05/02/12 03:18	79-01-6	
Vinyl chloride	**56.6**	ug/L	2.0	1		05/02/12 03:18	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/02/12 03:18	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	83-123	1		05/02/12 03:18	1868-53-7	
4-Bromofluorobenzene (S)	105	%.	72-125	1		05/02/12 03:18	460-00-4	
Toluene-d8 (S)	106	%.	81-114	1		05/02/12 03:18	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5061938

Sample: MMW-P-09S **Lab ID: 5061938012** Collected: 04/24/12 11:59 Received: 04/25/12 10:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		04/29/12 18:07	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		04/29/12 18:07	56-23-5	
Chloroform	ND	ug/L	5.0	1		04/29/12 18:07	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/29/12 18:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/29/12 18:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/29/12 18:07	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		04/29/12 18:07	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		04/29/12 18:07	75-09-2	
Naphthalene	ND	ug/L	5.0	1		04/29/12 18:07	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		04/29/12 18:07	127-18-4	
Toluene	ND	ug/L	5.0	1		04/29/12 18:07	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/29/12 18:07	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		04/29/12 18:07	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		04/29/12 18:07	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		04/29/12 18:07	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	90	%.	83-123	1		04/29/12 18:07	1868-53-7	
4-Bromofluorobenzene (S)	93	%.	72-125	1		04/29/12 18:07	460-00-4	
Toluene-d8 (S)	97	%.	81-114	1		04/29/12 18:07	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5061938

Sample: MMW-C-02S **Lab ID: 5061938013** Collected: 04/24/12 12:31 Received: 04/25/12 10:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		04/29/12 18:39	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		04/29/12 18:39	56-23-5	
Chloroform	ND	ug/L	5.0	1		04/29/12 18:39	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/29/12 18:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/29/12 18:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/29/12 18:39	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		04/29/12 18:39	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		04/29/12 18:39	75-09-2	
Naphthalene	ND	ug/L	5.0	1		04/29/12 18:39	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		04/29/12 18:39	127-18-4	
Toluene	ND	ug/L	5.0	1		04/29/12 18:39	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/29/12 18:39	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		04/29/12 18:39	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		04/29/12 18:39	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		04/29/12 18:39	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%.	83-123	1		04/29/12 18:39	1868-53-7	
4-Bromofluorobenzene (S)	110	%.	72-125	1		04/29/12 18:39	460-00-4	
Toluene-d8 (S)	116	%.	81-114	1		04/29/12 18:39	2037-26-5	S3

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5061938

Sample: MMW-C-01 **Lab ID: 5061938014** Collected: 04/24/12 13:01 Received: 04/25/12 10:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		05/02/12 03:52	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		05/02/12 03:52	56-23-5	
Chloroform	ND	ug/L	5.0	1		05/02/12 03:52	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/02/12 03:52	75-35-4	
cis-1,2-Dichloroethene	**10.6**	ug/L	5.0	1		05/02/12 03:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/02/12 03:52	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		05/02/12 03:52	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		05/02/12 03:52	75-09-2	
Naphthalene	ND	ug/L	5.0	1		05/02/12 03:52	91-20-3	
Tetrachloroethene	**11.9**	ug/L	5.0	1		05/02/12 03:52	127-18-4	
Toluene	ND	ug/L	5.0	1		05/02/12 03:52	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/02/12 03:52	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		05/02/12 03:52	79-01-6	
Vinyl chloride	**45.3**	ug/L	2.0	1		05/02/12 03:52	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/02/12 03:52	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	83-123	1		05/02/12 03:52	1868-53-7	
4-Bromofluorobenzene (S)	105	%.	72-125	1		05/02/12 03:52	460-00-4	
Toluene-d8 (S)	104	%.	81-114	1		05/02/12 03:52	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2.2**	mg/L	0.30	1		04/27/12 02:58	7440-44-0	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		04/25/12 12:13		
Nitrogen, Nitrite	ND	mg/L	0.10	1		04/25/12 12:13		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**71.0**	mg/L	25.0	1		04/27/12 11:00	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5061938

Sample: MMW-10S **Lab ID: 5061938015** Collected: 04/24/12 13:46 Received: 04/25/12 10:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		04/29/12 21:20	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		04/29/12 21:20	56-23-5	
Chloroform	ND	ug/L	5.0	1		04/29/12 21:20	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/29/12 21:20	75-35-4	
cis-1,2-Dichloroethene	**194**	ug/L	5.0	1		04/29/12 21:20	156-59-2	
trans-1,2-Dichloroethene	**6.1**	ug/L	5.0	1		04/29/12 21:20	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		04/29/12 21:20	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		04/29/12 21:20	75-09-2	
Naphthalene	ND	ug/L	5.0	1		04/29/12 21:20	91-20-3	
Tetrachloroethene	**54.0**	ug/L	5.0	1		04/29/12 21:20	127-18-4	
Toluene	ND	ug/L	5.0	1		04/29/12 21:20	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/29/12 21:20	71-55-6	
Trichloroethene	**23.8**	ug/L	5.0	1		04/29/12 21:20	79-01-6	
Vinyl chloride	**196**	ug/L	50.0	25		04/30/12 09:05	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		04/29/12 21:20	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%.	83-123	1		04/29/12 21:20	1868-53-7	
4-Bromofluorobenzene (S)	89	%.	72-125	1		04/29/12 21:20	460-00-4	
Toluene-d8 (S)	104	%.	81-114	1		04/29/12 21:20	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**4.7**	mg/L	0.30	1		04/27/12 04:16	7440-44-0	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		04/25/12 12:14		
Nitrogen, Nitrite	ND	mg/L	0.10	1		04/25/12 12:14		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**408**	mg/L	125	1		04/27/12 11:00	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5061938

Sample: Trip Blank **Lab ID: 5061938016** Collected: 04/24/12 08:00 Received: 04/25/12 10:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		04/29/12 19:11	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		04/29/12 19:11	56-23-5	
Chloroform	ND	ug/L	5.0	1		04/29/12 19:11	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/29/12 19:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/29/12 19:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/29/12 19:11	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		04/29/12 19:11	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		04/29/12 19:11	75-09-2	
Naphthalene	ND	ug/L	5.0	1		04/29/12 19:11	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		04/29/12 19:11	127-18-4	
Toluene	ND	ug/L	5.0	1		04/29/12 19:11	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/29/12 19:11	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		04/29/12 19:11	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		04/29/12 19:11	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		04/29/12 19:11	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	90	%.	83-123	1		04/29/12 19:11	1868-53-7	
4-Bromofluorobenzene (S)	92	%.	72-125	1		04/29/12 19:11	460-00-4	
Toluene-d8 (S)	116	%.	81-114	1		04/29/12 19:11	2037-26-5	S3

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5061938

QC Batch: MSV/41674 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5061938001, 5061938002, 5061938004

METHOD BLANK: 726725 Matrix: Water
Associated Lab Samples: 5061938001, 5061938002, 5061938004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	04/27/12 11:48	
1,1-Dichloroethene	ug/L	ND	5.0	04/27/12 11:48	
Benzene	ug/L	ND	5.0	04/27/12 11:48	
Carbon tetrachloride	ug/L	ND	5.0	04/27/12 11:48	
Chloroform	ug/L	ND	5.0	04/27/12 11:48	
cis-1,2-Dichloroethene	ug/L	ND	5.0	04/27/12 11:48	
Ethylbenzene	ug/L	ND	5.0	04/27/12 11:48	
Methylene Chloride	ug/L	ND	5.0	04/27/12 11:48	
Naphthalene	ug/L	ND	5.0	04/27/12 11:48	
Tetrachloroethene	ug/L	ND	5.0	04/27/12 11:48	
Toluene	ug/L	ND	5.0	04/27/12 11:48	
trans-1,2-Dichloroethene	ug/L	ND	5.0	04/27/12 11:48	
Trichloroethene	ug/L	ND	5.0	04/27/12 11:48	
Vinyl chloride	ug/L	ND	2.0	04/27/12 11:48	
Xylene (Total)	ug/L	ND	10.0	04/27/12 11:48	
4-Bromofluorobenzene (S)	%.	92	72-125	04/27/12 11:48	
Dibromofluoromethane (S)	%.	97	83-123	04/27/12 11:48	
Toluene-d8 (S)	%.	102	81-114	04/27/12 11:48	

LABORATORY CONTROL SAMPLE: 726726

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	48.6	97	69-126	
1,1-Dichloroethene	ug/L	50	49.2	98	75-145	
Benzene	ug/L	50	43.4	87	76-123	
Carbon tetrachloride	ug/L	50	51.2	102	65-125	
Chloroform	ug/L	50	42.7	85	73-122	
cis-1,2-Dichloroethene	ug/L	50	43.0	86	79-129	
Ethylbenzene	ug/L	50	50.7	101	75-120	
Methylene Chloride	ug/L	50	52.4	105	61-138	
Naphthalene	ug/L	50	47.9	96	62-130	
Tetrachloroethene	ug/L	50	44.3	89	57-125	
Toluene	ug/L	50	45.4	91	72-124	
trans-1,2-Dichloroethene	ug/L	50	42.7	85	71-145	
Trichloroethene	ug/L	50	47.7	95	77-122	
Vinyl chloride	ug/L	50	46.0	92	61-146	
Xylene (Total)	ug/L	150	152	101	72-126	
4-Bromofluorobenzene (S)	%.			95	72-125	
Dibromofluoromethane (S)	%.			94	83-123	
Toluene-d8 (S)	%.			116	81-114	S0

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5061938

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 726727 726728

Parameter	Units	5061893001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	50	50	42.8	90.6	86	181	37-136	72	20	
1,1-Dichloroethene	ug/L	ND	50	50	46.7	89.5	93	179	54-152	63	20	
Benzene	ug/L	ND	50	50	38.2	74.3	76	149	52-134	64	20	
Carbon tetrachloride	ug/L	ND	50	50	45.3	98.0	91	196	26-136	74	20	
Chloroform	ug/L	ND	50	50	38.3	77.5	77	155	50-134	68	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	37.7	73.0	75	146	48-145	64	20	
Ethylbenzene	ug/L	ND	50	50	40.4	84.9	81	170	29-132	71	20	
Methylene Chloride	ug/L	ND	50	50	43.8	90.5	88	181	47-141	70	20	
Naphthalene	ug/L	ND	50	50	34.2	79.7	68	159	40-124	80	20	
Tetrachloroethene	ug/L	ND	50	50	39.4	82.1	79	164	30-124	70	20	
Toluene	ug/L	ND	50	50	40.4	84.0	81	168	42-130	70	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	38.3	72.6	77	145	48-144	62	20	
Trichloroethene	ug/L	ND	50	50	38.5	77.8	77	156	44-130	68	20	
Vinyl chloride	ug/L	ND	50	50	48.1	92.3	96	185	45-159	63	20	
Xylene (Total)	ug/L	ND	150	150	121	266	81	177	29-131	75	20	
4-Bromofluorobenzene (S)	%.						95	98	72-125		20	
Dibromofluoromethane (S)	%.						100	97	83-123		20	
Toluene-d8 (S)	%.						105	113	81-114		20	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5061938

QC Batch: MSV/41701 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5061938003, 5061938005, 5061938006, 5061938007, 5061938008, 5061938009, 5061938010, 5061938012, 5061938013, 5061938015, 5061938016

METHOD BLANK: 727332 Matrix: Water
Associated Lab Samples: 5061938003, 5061938005, 5061938006, 5061938007, 5061938008, 5061938009, 5061938010, 5061938012, 5061938013, 5061938015, 5061938016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	04/29/12 11:41	
1,1-Dichloroethene	ug/L	ND	5.0	04/29/12 11:41	
Benzene	ug/L	ND	5.0	04/29/12 11:41	
Carbon tetrachloride	ug/L	ND	5.0	04/29/12 11:41	
Chloroform	ug/L	ND	5.0	04/29/12 11:41	
cis-1,2-Dichloroethene	ug/L	ND	5.0	04/29/12 11:41	
Ethylbenzene	ug/L	ND	5.0	04/29/12 11:41	
Methylene Chloride	ug/L	ND	5.0	04/29/12 11:41	
Naphthalene	ug/L	ND	5.0	04/29/12 11:41	
Tetrachloroethene	ug/L	ND	5.0	04/29/12 11:41	
Toluene	ug/L	ND	5.0	04/29/12 11:41	
trans-1,2-Dichloroethene	ug/L	ND	5.0	04/29/12 11:41	
Trichloroethene	ug/L	ND	5.0	04/29/12 11:41	
Vinyl chloride	ug/L	ND	2.0	04/29/12 11:41	
Xylene (Total)	ug/L	ND	10.0	04/29/12 11:41	
4-Bromofluorobenzene (S)	%.	104	72-125	04/29/12 11:41	
Dibromofluoromethane (S)	%.	98	83-123	04/29/12 11:41	
Toluene-d8 (S)	%.	102	81-114	04/29/12 11:41	

LABORATORY CONTROL SAMPLE: 727333

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	48.5	97	69-126	
1,1-Dichloroethene	ug/L	50	42.9	86	75-145	
Benzene	ug/L	50	45.7	91	76-123	
Carbon tetrachloride	ug/L	50	47.2	94	65-125	
Chloroform	ug/L	50	43.0	86	73-122	
cis-1,2-Dichloroethene	ug/L	50	49.5	99	79-129	
Ethylbenzene	ug/L	50	49.9	100	75-120	
Methylene Chloride	ug/L	50	48.6	97	61-138	
Naphthalene	ug/L	50	46.8	94	62-130	
Tetrachloroethene	ug/L	50	40.3	81	57-125	
Toluene	ug/L	50	42.1	84	72-124	
trans-1,2-Dichloroethene	ug/L	50	40.8	82	71-145	
Trichloroethene	ug/L	50	44.4	89	77-122	
Vinyl chloride	ug/L	50	45.8	92	61-146	
Xylene (Total)	ug/L	150	144	96	72-126	
4-Bromofluorobenzene (S)	%.			97	72-125	
Dibromofluoromethane (S)	%.			101	83-123	
Toluene-d8 (S)	%.			98	81-114	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5061938

QC Batch: MSV/41775 — Analysis Method: EPA 8260
QC Batch Method: EPA 8260 — Analysis Description: 8260 MSV
Associated Lab Samples: 5061938011, 5061938014

METHOD BLANK: 728599 — Matrix: Water
Associated Lab Samples: 5061938011, 5061938014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	05/01/12 22:15	
1,1-Dichloroethene	ug/L	ND	5.0	05/01/12 22:15	
Benzene	ug/L	ND	5.0	05/01/12 22:15	
Carbon tetrachloride	ug/L	ND	5.0	05/01/12 22:15	
Chloroform	ug/L	ND	5.0	05/01/12 22:15	
cis-1,2-Dichloroethene	ug/L	ND	5.0	05/01/12 22:15	
Ethylbenzene	ug/L	ND	5.0	05/01/12 22:15	
Methylene Chloride	ug/L	ND	5.0	05/01/12 22:15	
Naphthalene	ug/L	ND	5.0	05/01/12 22:15	
Tetrachloroethene	ug/L	ND	5.0	05/01/12 22:15	
Toluene	ug/L	ND	5.0	05/01/12 22:15	
trans-1,2-Dichloroethene	ug/L	ND	5.0	05/01/12 22:15	
Trichloroethene	ug/L	ND	5.0	05/01/12 22:15	
Vinyl chloride	ug/L	ND	2.0	05/01/12 22:15	
Xylene (Total)	ug/L	ND	10.0	05/01/12 22:15	
4-Bromofluorobenzene (S)	%.	101	72-125	05/01/12 22:15	
Dibromofluoromethane (S)	%.	102	83-123	05/01/12 22:15	
Toluene-d8 (S)	%.	103	81-114	05/01/12 22:15	

LABORATORY CONTROL SAMPLE: 728600

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.2	100	69-126	
1,1-Dichloroethene	ug/L	50	56.5	113	75-145	
Benzene	ug/L	50	55.3	111	76-123	
Carbon tetrachloride	ug/L	50	49.4	99	65-125	
Chloroform	ug/L	50	54.3	109	73-122	
cis-1,2-Dichloroethene	ug/L	50	51.3	103	79-129	
Ethylbenzene	ug/L	50	56.3	113	75-120	
Methylene Chloride	ug/L	50	53.4	107	61-138	
Naphthalene	ug/L	50	50.3	101	62-130	
Tetrachloroethene	ug/L	50	41.0	82	57-125	
Toluene	ug/L	50	56.1	112	72-124	
trans-1,2-Dichloroethene	ug/L	50	51.6	103	71-145	
Trichloroethene	ug/L	50	53.7	107	77-122	
Vinyl chloride	ug/L	50	43.8	88	61-146	
Xylene (Total)	ug/L	150	167	112	72-126	
4-Bromofluorobenzene (S)	%.			100	72-125	
Dibromofluoromethane (S)	%.			103	83-123	
Toluene-d8 (S)	%.			96	81-114	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5061938

QC Batch: OHIO/2399 — Analysis Method: SM 5310C
QC Batch Method: SM 5310C — Analysis Description: 5310C TOC
Associated Lab Samples: 5061938014, 5061938015

METHOD BLANK: 726197 — Matrix: Water
Associated Lab Samples: 5061938014, 5061938015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	0.30	04/26/12 18:30	N2

LABORATORY CONTROL SAMPLE: 726198

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	4.5	90	80-120	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 726200 726201

Parameter	Units	5061921003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	20.0	2	2	22.3	22.3	116	116	75-125	.06	20	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 726203 726204

Parameter	Units	5061955001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	3.4	4	4	7.1	7.3	94	98	75-125	3	20	N2

SAMPLE DUPLICATE: 726199

Parameter	Units	5061921003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	20.0	20.3	2	20	N2

SAMPLE DUPLICATE: 726202

Parameter	Units	5061955001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	3.4	3.4	2	20	N2

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5061938

QC Batch: WETA/7909
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 5061938014, 5061938015

METHOD BLANK: 725017
Matrix: Water
Associated Lab Samples: 5061938014, 5061938015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	04/25/12 11:02	
Nitrogen, Nitrite	mg/L	ND	0.10	04/25/12 11:02	

LABORATORY CONTROL SAMPLE: 725018

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2	2.1	104	90-110	
Nitrogen, Nitrite	mg/L	2	2.0	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 725019 725020

Parameter	Units	5061858001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	ND	2	2	2.1	2.1	98	100	90-110	1	20	
Nitrogen, Nitrite	mg/L	ND	2	2	2.0	2.0	99	99	90-110	.2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 725208 725209

Parameter	Units	5061921003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	ND	2	2	1.6	1.6	79	79	90-110	.02	20	M3
Nitrogen, Nitrite	mg/L	ND	2	2	1.9	1.9	94	93	90-110	.1	20	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5061938

QC Batch: WETA/7922
QC Batch Method: ASTM D516-90,02
Analysis Method: ASTM D516-90,02
Analysis Description: ASTM D516-9002 Sulfate Water
Associated Lab Samples: 5061938014, 5061938015

METHOD BLANK: 726428
Matrix: Water
Associated Lab Samples: 5061938014, 5061938015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	5.0	04/27/12 11:00	N2

LABORATORY CONTROL SAMPLE: 726429

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	20.9	104	90-110	N2

MATRIX SPIKE SAMPLE: 726430

Parameter	Units	5061759001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	35.2	50	97.8	125	90-110	M0,N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 726432 726433

Parameter	Units	5061995001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	176	200	200	445	444	134	134	90-110	.2	20	M3,N2

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QUALIFIERS

Project: MI Plaza M01046
Pace Project No.: 5061938

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M3	Matrix spike recovery was outside laboratory control limits due to matrix interferences.
N2	The lab does not hold TNI accreditation for this parameter.
S0	Surrogate recovery outside laboratory control limits.
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
S5	Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MI Plaza M01046
Pace Project No.: 5061938

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5061938001	**MMW-6D**	EPA 8260	MSV/41674		
5061938002	**MMW-5D**	EPA 8260	MSV/41674		
5061938003	**MMW-4D**	EPA 8260	MSV/41701		
5061938004	**MMW-3S**	EPA 8260	MSV/41674		
5061938005	**MMW-2S**	EPA 8260	MSV/41701		
5061938006	**MMW-12S**	EPA 8260	MSV/41701		
5061938007	**MMW-14D**	EPA 8260	MSV/41701		
5061938008	**MMW-13D**	EPA 8260	MSV/41701		
5061938009	**MMW-11S**	EPA 8260	MSV/41701		
5061938010	**MMW-11D**	EPA 8260	MSV/41701		
5061938011	**MMW-P-09D**	EPA 8260	MSV/41775		
5061938012	**MMW-P-09S**	EPA 8260	MSV/41701		
5061938013	**MMW-C-02S**	EPA 8260	MSV/41701		
5061938014	**MMW-C-01**	EPA 8260	MSV/41775		
5061938015	**MMW-10S**	EPA 8260	MSV/41701		
5061938016	**Trip Blank**	EPA 8260	MSV/41701		
5061938014	**MMW-C-01**	SM 5310C	OHIO/2399		
5061938015	**MMW-10S**	SM 5310C	OHIO/2399		
5061938014	**MMW-C-01**	EPA 353.2	WETA/7909		
5061938015	**MMW-10S**	EPA 353.2	WETA/7909		
5061938014	**MMW-C-01**	ASTM D516-90,02	WETA/7922		
5061938015	**MMW-10S**	ASTM D516-90,02	WETA/7922		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 2

1337906

Section A Required Client Information:

Company: Mundell & Assoc.
Address: 1105. Downey Ave
Indpls, IN 46219
Email To:
Phone: 317-630-9060 Fax:
Requested Due Date/TAT: STT

Section B Required Project Information:

Report To: Mark Bracting
Copy To:
Purchase Order No.:
Project Name: MI Plaza
Project Number: M01046

Section C Invoice Information:

Attention: Mark Tebbe
Company Name: Mundell
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): Y/N

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: S.L. VOCs 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MMW-6D	WT	G			4/23/12	12:45p		3				3					X		001
2	MMW-5D						1:16p		3				3							002
3	MMW-4D						1:43p		3				3							003
4	MMW-3S						3:05p		3				3							004
5	MMW-2S						3:32p		3				3							005
6	MMW-12S						3:58p		3				3							006
7	MMW-14D						4:33p		3				3							007
8	MMW-13D					4/24/12	9:32A		3				3							008
9	MMW-11S						10:09A		3				3							009
10	MMW-11D						10:42A		3				3							010
11	MMW-P-09D						11:38A		3				3							011
12	MMW-P-09S						11:59A		3				3							012

5061938

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	A. D	4/25/12	10:25	Zahn Tab	4/25/12	10:25	2.3	Y	N	Y

KEIPACE Del
Rhandler@1203

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Andy Downey
SIGNATURE of SAMPLER: A. D
DATE Signed (MM/DD/YY): 4/24/12

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

1337904

Section A Required Client Information:

Company: Mundell & Assoc
Address: 1105. Downey ave Indpls. IN
Email To:
Phone: 317-630-9060 Fax:
Requested Due Date/TAT: STD

Section B Required Project Information:

Report To: Mark Breeding
Copy To:
Purchase Order No.:
Project Name: MI Plaza
Project Number: M01046

Section C Invoice Information:

Attention: Mark Tebbe
Company Name: Mundell
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	Composite Start Time	Composite End/Grab Date	Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: S.L. VOC's 8260	TOC 415.1	Nitrate 353.2	Nitrite 353.2	Sulfate 375.4	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MMW-C-02S	GT	G			4/24/12	12:31p		3				3					X						013
2	MMW-C-01	↓	↓			↓	1:01p		5	1	1		3					↓	X	X	X	X		014
3	MMW-10S						1:41p		5	1	1		3						X	X	X	X		015
4	Trip Blank								3				3											016
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	A.D.	4/25/12	10:25	Zachary Taylor	4/25/12	10:25	

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Andy Amney

SIGNATURE of SAMPLER: A.D.

DATE Signed (MM/DD/YY): 4/24/12

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt

Pace Analytical

Client Name: Mundell

Project # 5061938

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Date/Time 5035A kits placed in freezer _____

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other ice/foamblocks

Thermometer Used 1 2 3 4 5 6 A B C D E

Type of Ice: Wet Blue None ☑ Samples on ice, cooling process has begun

Cooler Temperature (Corrected, if applicable) 2.3C

Ice Visible in Sample Containers: ☐ yes ☑ no

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 4/25/12 KJG

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	5. nitrate took to wetchem
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	6.
Containers Intact:	☑Yes ☐No ☐N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	☑Yes ☐No ☐N/A	8.
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G	☐Yes ☐No ☑N/A	9. (Circle) HNO3 H2SO4 NaOH HCl
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	10.
Trip Blank Present:	☑Yes ☐No ☐N/A	11.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Project Manager Review		
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	12.
Sufficient Volume:	☑Yes ☐No ☐N/A	13.
Correct Containers Used:	☑Yes ☐No ☐N/A	14.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: T Sayer **Date:** 4/25/12

Form F-IN-Q290-rev.04, 28Apr2011

Sample Container Count

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CLIENT: MunDell

COC PAGE 1 of 2
COC ID# 1337906

Project # 5061938

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H			Comments
1	3															
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

Sample Container Count

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CLIENT: Mundell

COC PAGE 2 of 2
COC ID# 133704

Project # 5061938

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R 4 / 6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H			Comments
1	3															
2										1		1				
3										1		1				
4																
5																
6																
7																
8																
9																
10																
11																
12																

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved **amber** vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved **clear** vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

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Columbus, OH 43215
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7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

June 20, 2012

Mr. Mark Breting
Mundell & Associates
110 S. Downey Ave.
Indianapolis, IN 46228

RE: Project: Michigan Plaza M01046
Pace Project No.: 5064038

Dear Mr. Breting:
Enclosed are the analytical results for sample(s) received by the laboratory on June 06, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Sayer

Tina Sayer

tina.sayer@pacelabs.com
Project Manager

Enclosures

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(317)875-5894

CERTIFICATIONS

Project: Michigan Plaza M01046
Pace Project No.: 5064038

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888
North Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana/NELAC Certification #: 04076
Ohio VAP: CL0065
Pennsylvania: 68-04991
West Virginia Certification #: 330

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SAMPLE SUMMARY

Project: Michigan Plaza M01046
Pace Project No.: 5064038

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5064038001	**MMW-C-16D (18-20)**	Solid	06/04/12 10:46	06/06/12 16:05
5064038002	**MMW-C-16D (36-38)**	Solid	06/05/12 08:50	06/06/12 16:05
5064038003	**MMW-C-16D (40-42)**	Solid	06/05/12 09:00	06/06/12 16:05
5064038004	**MMW-C-17D (18-20)**	Solid	06/05/12 15:07	06/06/12 16:05
5064038005	**MMW-C-17D (38-38.8)**	Solid	06/05/12 16:39	06/06/12 16:05
5064038006	**DUP 1**	Solid	06/05/12 00:00	06/06/12 16:05
5064038007	**Trip Blank**	Water	06/04/12 09:00	06/06/12 16:05

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7726 Moller Road
Indianapolis, IN 46268
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SAMPLE ANALYTE COUNT

Project: Michigan Plaza M01046
Pace Project No.: 5064038

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
5064038001	**MMW-C-16D (18-20)**	EPA 8260	GRM	73	PASI-I
		ASTM D2974-87	DAE	1	PASI-I
		Walkley Black	TJJ	3	PASI-G
5064038002	**MMW-C-16D (36-38)**	EPA 8260	GRM	73	PASI-I
		ASTM D2974-87	DAE	1	PASI-I
		Walkley Black	TJJ	3	PASI-G
5064038003	**MMW-C-16D (40-42)**	EPA 8260	GRM	73	PASI-I
		ASTM D2974-87	DAE	1	PASI-I
		Walkley Black	TJJ	3	PASI-G
5064038004	**MMW-C-17D (18-20)**	EPA 8260	GRM	73	PASI-I
		ASTM D2974-87	DAE	1	PASI-I
		Walkley Black	TJJ	3	PASI-G
5064038005	**MMW-C-17D (38-38.8)**	EPA 8260	GRM	73	PASI-I
		ASTM D2974-87	DAE	1	PASI-I
		Walkley Black	TJJ	3	PASI-G
5064038006	**DUP 1**	EPA 8260	GRM	73	PASI-I
		ASTM D2974-87	DAE	1	PASI-I
		Walkley Black	TJJ	3	PASI-G
5064038007	**Trip Blank**	EPA 8260	GRM	73	PASI-I

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5064038

Sample: MMW-C-16D (18-20) **Lab ID: 5064038001** Collected: 06/04/12 10:46 Received: 06/06/12 16:05 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	91.1	1		06/13/12 21:27	67-64-1	
Acrolein	ND	ug/kg	91.1	1		06/13/12 21:27	107-02-8	
Acrylonitrile	ND	ug/kg	91.1	1		06/13/12 21:27	107-13-1	
Benzene	ND	ug/kg	4.6	1		06/13/12 21:27	71-43-2	
Bromobenzene	ND	ug/kg	4.6	1		06/13/12 21:27	108-86-1	
Bromochloromethane	ND	ug/kg	4.6	1		06/13/12 21:27	74-97-5	
Bromodichloromethane	ND	ug/kg	4.6	1		06/13/12 21:27	75-27-4	
Bromoform	ND	ug/kg	4.6	1		06/13/12 21:27	75-25-2	
Bromomethane	ND	ug/kg	4.6	1		06/13/12 21:27	74-83-9	
2-Butanone (MEK)	ND	ug/kg	22.8	1		06/13/12 21:27	78-93-3	
n-Butylbenzene	ND	ug/kg	4.6	1		06/13/12 21:27	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.6	1		06/13/12 21:27	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.6	1		06/13/12 21:27	98-06-6	
Carbon disulfide	ND	ug/kg	9.1	1		06/13/12 21:27	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.6	1		06/13/12 21:27	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	1		06/13/12 21:27	108-90-7	
Chloroethane	ND	ug/kg	4.6	1		06/13/12 21:27	75-00-3	
Chloroform	ND	ug/kg	4.6	1		06/13/12 21:27	67-66-3	
Chloromethane	ND	ug/kg	4.6	1		06/13/12 21:27	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.6	1		06/13/12 21:27	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.6	1		06/13/12 21:27	106-43-4	
Dibromochloromethane	ND	ug/kg	4.6	1		06/13/12 21:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.6	1		06/13/12 21:27	106-93-4	
Dibromomethane	ND	ug/kg	4.6	1		06/13/12 21:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.6	1		06/13/12 21:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.6	1		06/13/12 21:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.6	1		06/13/12 21:27	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	91.1	1		06/13/12 21:27	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.6	1		06/13/12 21:27	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.6	1		06/13/12 21:27	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	1		06/13/12 21:27	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	1		06/13/12 21:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.6	1		06/13/12 21:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	1		06/13/12 21:27	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	1		06/13/12 21:27	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.6	1		06/13/12 21:27	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.6	1		06/13/12 21:27	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.6	1		06/13/12 21:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	1		06/13/12 21:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	1		06/13/12 21:27	10061-02-6	
Ethylbenzene	ND	ug/kg	4.6	1		06/13/12 21:27	100-41-4	
Ethyl methacrylate	ND	ug/kg	91.1	1		06/13/12 21:27	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.6	1		06/13/12 21:27	87-68-3	
n-Hexane	ND	ug/kg	4.6	1		06/13/12 21:27	110-54-3	N2
2-Hexanone	ND	ug/kg	91.1	1		06/13/12 21:27	591-78-6	
Iodomethane	ND	ug/kg	91.1	1		06/13/12 21:27	74-88-4	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5064038

Sample: MMW-C-16D (18-20) **Lab ID: 5064038001** Collected: 06/04/12 10:46 Received: 06/06/12 16:05 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	4.6	1		06/13/12 21:27	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.6	1		06/13/12 21:27	99-87-6	
Methylene Chloride	ND	ug/kg	18.2	1		06/13/12 21:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	22.8	1		06/13/12 21:27	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.6	1		06/13/12 21:27	1634-04-4	
Naphthalene	ND	ug/kg	4.6	1		06/13/12 21:27	91-20-3	
n-Propylbenzene	ND	ug/kg	4.6	1		06/13/12 21:27	103-65-1	
Styrene	ND	ug/kg	4.6	1		06/13/12 21:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		06/13/12 21:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.6	1		06/13/12 21:27	79-34-5	
Tetrachloroethene	ND	ug/kg	4.6	1		06/13/12 21:27	127-18-4	
Toluene	ND	ug/kg	4.6	1		06/13/12 21:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.6	1		06/13/12 21:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.6	1		06/13/12 21:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.6	1		06/13/12 21:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	1		06/13/12 21:27	79-00-5	
Trichloroethene	ND	ug/kg	4.6	1		06/13/12 21:27	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.6	1		06/13/12 21:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.6	1		06/13/12 21:27	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.6	1		06/13/12 21:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.6	1		06/13/12 21:27	108-67-8	
Vinyl acetate	ND	ug/kg	91.1	1		06/13/12 21:27	108-05-4	
Vinyl chloride	ND	ug/kg	4.6	1		06/13/12 21:27	75-01-4	
Xylene (Total)	ND	ug/kg	9.1	1		06/13/12 21:27	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%.	71-125	1		06/13/12 21:27	1868-53-7	
Toluene-d8 (S)	93	%.	76-124	1		06/13/12 21:27	2037-26-5	
4-Bromofluorobenzene (S)	96	%.	67-134	1		06/13/12 21:27	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**3.9**	%	0.10	1		06/12/12 16:19		
Organic Carbon Walkley Black	Analytical Method: Walkley Black							
Total Organic Carbon	**8070**	mg/kg	1090	1	06/14/12 09:15	06/14/12 14:15	7440-44-0	
Total Organic Carbon	**8230**	mg/kg	1090	1	06/14/12 09:15	06/14/12 14:15	7440-44-0	
Total Organic Carbon	**7730**	mg/kg	1090	1	06/14/12 09:15	06/14/12 14:15	7440-44-0	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5064038

Sample: MMW-C-16D (36-38) **Lab ID: 5064038002** Collected: 06/05/12 08:50 Received: 06/06/12 16:05 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	80.1	1		06/13/12 21:59	67-64-1	
Acrolein	ND	ug/kg	80.1	1		06/13/12 21:59	107-02-8	
Acrylonitrile	ND	ug/kg	80.1	1		06/13/12 21:59	107-13-1	
Benzene	ND	ug/kg	4.0	1		06/13/12 21:59	71-43-2	
Bromobenzene	ND	ug/kg	4.0	1		06/13/12 21:59	108-86-1	
Bromochloromethane	ND	ug/kg	4.0	1		06/13/12 21:59	74-97-5	
Bromodichloromethane	ND	ug/kg	4.0	1		06/13/12 21:59	75-27-4	
Bromoform	ND	ug/kg	4.0	1		06/13/12 21:59	75-25-2	
Bromomethane	ND	ug/kg	4.0	1		06/13/12 21:59	74-83-9	
2-Butanone (MEK)	ND	ug/kg	20.0	1		06/13/12 21:59	78-93-3	
n-Butylbenzene	ND	ug/kg	4.0	1		06/13/12 21:59	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.0	1		06/13/12 21:59	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.0	1		06/13/12 21:59	98-06-6	
Carbon disulfide	ND	ug/kg	8.0	1		06/13/12 21:59	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.0	1		06/13/12 21:59	56-23-5	
Chlorobenzene	ND	ug/kg	4.0	1		06/13/12 21:59	108-90-7	
Chloroethane	ND	ug/kg	4.0	1		06/13/12 21:59	75-00-3	
Chloroform	ND	ug/kg	4.0	1		06/13/12 21:59	67-66-3	
Chloromethane	ND	ug/kg	4.0	1		06/13/12 21:59	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.0	1		06/13/12 21:59	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.0	1		06/13/12 21:59	106-43-4	
Dibromochloromethane	ND	ug/kg	4.0	1		06/13/12 21:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.0	1		06/13/12 21:59	106-93-4	
Dibromomethane	ND	ug/kg	4.0	1		06/13/12 21:59	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.0	1		06/13/12 21:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.0	1		06/13/12 21:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.0	1		06/13/12 21:59	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	80.1	1		06/13/12 21:59	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.0	1		06/13/12 21:59	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.0	1		06/13/12 21:59	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.0	1		06/13/12 21:59	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.0	1		06/13/12 21:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.0	1		06/13/12 21:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.0	1		06/13/12 21:59	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.0	1		06/13/12 21:59	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.0	1		06/13/12 21:59	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.0	1		06/13/12 21:59	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.0	1		06/13/12 21:59	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.0	1		06/13/12 21:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.0	1		06/13/12 21:59	10061-02-6	
Ethylbenzene	ND	ug/kg	4.0	1		06/13/12 21:59	100-41-4	
Ethyl methacrylate	ND	ug/kg	80.1	1		06/13/12 21:59	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.0	1		06/13/12 21:59	87-68-3	
n-Hexane	ND	ug/kg	4.0	1		06/13/12 21:59	110-54-3	N2
2-Hexanone	ND	ug/kg	80.1	1		06/13/12 21:59	591-78-6	
Iodomethane	ND	ug/kg	80.1	1		06/13/12 21:59	74-88-4	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5064038

Sample: MMW-C-16D (36-38) **Lab ID: 5064038002** Collected: 06/05/12 08:50 Received: 06/06/12 16:05 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	4.0	1		06/13/12 21:59	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.0	1		06/13/12 21:59	99-87-6	
Methylene Chloride	ND	ug/kg	16.0	1		06/13/12 21:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	20.0	1		06/13/12 21:59	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.0	1		06/13/12 21:59	1634-04-4	
Naphthalene	ND	ug/kg	4.0	1		06/13/12 21:59	91-20-3	
n-Propylbenzene	ND	ug/kg	4.0	1		06/13/12 21:59	103-65-1	
Styrene	ND	ug/kg	4.0	1		06/13/12 21:59	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.0	1		06/13/12 21:59	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.0	1		06/13/12 21:59	79-34-5	
Tetrachloroethene	ND	ug/kg	4.0	1		06/13/12 21:59	127-18-4	
Toluene	ND	ug/kg	4.0	1		06/13/12 21:59	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.0	1		06/13/12 21:59	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.0	1		06/13/12 21:59	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.0	1		06/13/12 21:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.0	1		06/13/12 21:59	79-00-5	
Trichloroethene	ND	ug/kg	4.0	1		06/13/12 21:59	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.0	1		06/13/12 21:59	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.0	1		06/13/12 21:59	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.0	1		06/13/12 21:59	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.0	1		06/13/12 21:59	108-67-8	
Vinyl acetate	ND	ug/kg	80.1	1		06/13/12 21:59	108-05-4	
Vinyl chloride	**64.6**	ug/kg	4.0	1		06/13/12 21:59	75-01-4	
Xylene (Total)	ND	ug/kg	8.0	1		06/13/12 21:59	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	71-125	1		06/13/12 21:59	1868-53-7	
Toluene-d8 (S)	95	%.	76-124	1		06/13/12 21:59	2037-26-5	
4-Bromofluorobenzene (S)	96	%.	67-134	1		06/13/12 21:59	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**12.1**	%	0.10	1		06/12/12 16:19		
Organic Carbon Walkley Black	Analytical Method: Walkley Black							
Total Organic Carbon	**7900**	mg/kg	830	1	06/14/12 09:15	06/14/12 14:16	7440-44-0	
Total Organic Carbon	**8530**	mg/kg	830	1	06/14/12 09:15	06/14/12 14:16	7440-44-0	
Total Organic Carbon	**8530**	mg/kg	830	1	06/14/12 09:15	06/14/12 14:16	7440-44-0	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5064038

Sample: MMW-C-16D (40-42) **Lab ID: 5064038003** Collected: 06/05/12 09:00 Received: 06/06/12 16:05 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	68.4	1		06/13/12 22:32	67-64-1	
Acrolein	ND	ug/kg	68.4	1		06/13/12 22:32	107-02-8	
Acrylonitrile	ND	ug/kg	68.4	1		06/13/12 22:32	107-13-1	
Benzene	ND	ug/kg	3.4	1		06/13/12 22:32	71-43-2	
Bromobenzene	ND	ug/kg	3.4	1		06/13/12 22:32	108-86-1	
Bromochloromethane	ND	ug/kg	3.4	1		06/13/12 22:32	74-97-5	
Bromodichloromethane	ND	ug/kg	3.4	1		06/13/12 22:32	75-27-4	
Bromoform	ND	ug/kg	3.4	1		06/13/12 22:32	75-25-2	
Bromomethane	ND	ug/kg	3.4	1		06/13/12 22:32	74-83-9	
2-Butanone (MEK)	ND	ug/kg	17.1	1		06/13/12 22:32	78-93-3	
n-Butylbenzene	ND	ug/kg	3.4	1		06/13/12 22:32	104-51-8	
sec-Butylbenzene	ND	ug/kg	3.4	1		06/13/12 22:32	135-98-8	
tert-Butylbenzene	ND	ug/kg	3.4	1		06/13/12 22:32	98-06-6	
Carbon disulfide	ND	ug/kg	6.8	1		06/13/12 22:32	75-15-0	
Carbon tetrachloride	ND	ug/kg	3.4	1		06/13/12 22:32	56-23-5	
Chlorobenzene	ND	ug/kg	3.4	1		06/13/12 22:32	108-90-7	
Chloroethane	ND	ug/kg	3.4	1		06/13/12 22:32	75-00-3	
Chloroform	ND	ug/kg	3.4	1		06/13/12 22:32	67-66-3	
Chloromethane	ND	ug/kg	3.4	1		06/13/12 22:32	74-87-3	
2-Chlorotoluene	ND	ug/kg	3.4	1		06/13/12 22:32	95-49-8	
4-Chlorotoluene	ND	ug/kg	3.4	1		06/13/12 22:32	106-43-4	
Dibromochloromethane	ND	ug/kg	3.4	1		06/13/12 22:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.4	1		06/13/12 22:32	106-93-4	
Dibromomethane	ND	ug/kg	3.4	1		06/13/12 22:32	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.4	1		06/13/12 22:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.4	1		06/13/12 22:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.4	1		06/13/12 22:32	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	68.4	1		06/13/12 22:32	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	3.4	1		06/13/12 22:32	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.4	1		06/13/12 22:32	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.4	1		06/13/12 22:32	107-06-2	
1,1-Dichloroethene	ND	ug/kg	3.4	1		06/13/12 22:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	3.4	1		06/13/12 22:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.4	1		06/13/12 22:32	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.4	1		06/13/12 22:32	78-87-5	
1,3-Dichloropropane	ND	ug/kg	3.4	1		06/13/12 22:32	142-28-9	
2,2-Dichloropropane	ND	ug/kg	3.4	1		06/13/12 22:32	594-20-7	
1,1-Dichloropropene	ND	ug/kg	3.4	1		06/13/12 22:32	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	3.4	1		06/13/12 22:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.4	1		06/13/12 22:32	10061-02-6	
Ethylbenzene	ND	ug/kg	3.4	1		06/13/12 22:32	100-41-4	
Ethyl methacrylate	ND	ug/kg	68.4	1		06/13/12 22:32	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	3.4	1		06/13/12 22:32	87-68-3	
n-Hexane	ND	ug/kg	3.4	1		06/13/12 22:32	110-54-3	N2
2-Hexanone	ND	ug/kg	68.4	1		06/13/12 22:32	591-78-6	
Iodomethane	ND	ug/kg	68.4	1		06/13/12 22:32	74-88-4	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5064038

Sample: MMW-C-16D (40-42) **Lab ID: 5064038003** Collected: 06/05/12 09:00 Received: 06/06/12 16:05 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	3.4	1		06/13/12 22:32	98-82-8	
p-Isopropyltoluene	ND	ug/kg	3.4	1		06/13/12 22:32	99-87-6	
Methylene Chloride	ND	ug/kg	13.7	1		06/13/12 22:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	17.1	1		06/13/12 22:32	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	3.4	1		06/13/12 22:32	1634-04-4	
Naphthalene	ND	ug/kg	3.4	1		06/13/12 22:32	91-20-3	
n-Propylbenzene	ND	ug/kg	3.4	1		06/13/12 22:32	103-65-1	
Styrene	ND	ug/kg	3.4	1		06/13/12 22:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.4	1		06/13/12 22:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.4	1		06/13/12 22:32	79-34-5	
Tetrachloroethene	ND	ug/kg	3.4	1		06/13/12 22:32	127-18-4	
Toluene	ND	ug/kg	3.4	1		06/13/12 22:32	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	3.4	1		06/13/12 22:32	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	3.4	1		06/13/12 22:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	3.4	1		06/13/12 22:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.4	1		06/13/12 22:32	79-00-5	
Trichloroethene	ND	ug/kg	3.4	1		06/13/12 22:32	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.4	1		06/13/12 22:32	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	3.4	1		06/13/12 22:32	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	3.4	1		06/13/12 22:32	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	3.4	1		06/13/12 22:32	108-67-8	
Vinyl acetate	ND	ug/kg	68.4	1		06/13/12 22:32	108-05-4	
Vinyl chloride	ND	ug/kg	3.4	1		06/13/12 22:32	75-01-4	
Xylene (Total)	ND	ug/kg	6.8	1		06/13/12 22:32	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	71-125	1		06/13/12 22:32	1868-53-7	
Toluene-d8 (S)	94	%.	76-124	1		06/13/12 22:32	2037-26-5	
4-Bromofluorobenzene (S)	94	%.	67-134	1		06/13/12 22:32	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**9.4**	%	0.10	1		06/12/12 16:19		
Organic Carbon Walkley Black	Analytical Method: Walkley Black							
Total Organic Carbon	**13300**	mg/kg	676	1	06/14/12 09:15	06/14/12 14:16	7440-44-0	
Total Organic Carbon	**14000**	mg/kg	676	1	06/14/12 09:15	06/14/12 14:16	7440-44-0	
Total Organic Carbon	**13900**	mg/kg	676	1	06/14/12 09:15	06/14/12 14:16	7440-44-0	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5064038

Sample: MMW-C-17D (18-20) **Lab ID: 5064038004** Collected: 06/05/12 15:07 Received: 06/06/12 16:05 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	85.6	1		06/13/12 23:04	67-64-1	
Acrolein	ND	ug/kg	85.6	1		06/13/12 23:04	107-02-8	
Acrylonitrile	ND	ug/kg	85.6	1		06/13/12 23:04	107-13-1	
Benzene	ND	ug/kg	4.3	1		06/13/12 23:04	71-43-2	
Bromobenzene	ND	ug/kg	4.3	1		06/13/12 23:04	108-86-1	
Bromochloromethane	ND	ug/kg	4.3	1		06/13/12 23:04	74-97-5	
Bromodichloromethane	ND	ug/kg	4.3	1		06/13/12 23:04	75-27-4	
Bromoform	ND	ug/kg	4.3	1		06/13/12 23:04	75-25-2	
Bromomethane	ND	ug/kg	4.3	1		06/13/12 23:04	74-83-9	
2-Butanone (MEK)	ND	ug/kg	21.4	1		06/13/12 23:04	78-93-3	
n-Butylbenzene	ND	ug/kg	4.3	1		06/13/12 23:04	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.3	1		06/13/12 23:04	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.3	1		06/13/12 23:04	98-06-6	
Carbon disulfide	ND	ug/kg	8.6	1		06/13/12 23:04	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.3	1		06/13/12 23:04	56-23-5	
Chlorobenzene	ND	ug/kg	4.3	1		06/13/12 23:04	108-90-7	
Chloroethane	ND	ug/kg	4.3	1		06/13/12 23:04	75-00-3	
Chloroform	ND	ug/kg	4.3	1		06/13/12 23:04	67-66-3	
Chloromethane	ND	ug/kg	4.3	1		06/13/12 23:04	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.3	1		06/13/12 23:04	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.3	1		06/13/12 23:04	106-43-4	
Dibromochloromethane	ND	ug/kg	4.3	1		06/13/12 23:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.3	1		06/13/12 23:04	106-93-4	
Dibromomethane	ND	ug/kg	4.3	1		06/13/12 23:04	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.3	1		06/13/12 23:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.3	1		06/13/12 23:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.3	1		06/13/12 23:04	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	85.6	1		06/13/12 23:04	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.3	1		06/13/12 23:04	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.3	1		06/13/12 23:04	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.3	1		06/13/12 23:04	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.3	1		06/13/12 23:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.3	1		06/13/12 23:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.3	1		06/13/12 23:04	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.3	1		06/13/12 23:04	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.3	1		06/13/12 23:04	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.3	1		06/13/12 23:04	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.3	1		06/13/12 23:04	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.3	1		06/13/12 23:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.3	1		06/13/12 23:04	10061-02-6	
Ethylbenzene	ND	ug/kg	4.3	1		06/13/12 23:04	100-41-4	
Ethyl methacrylate	ND	ug/kg	85.6	1		06/13/12 23:04	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.3	1		06/13/12 23:04	87-68-3	
n-Hexane	ND	ug/kg	4.3	1		06/13/12 23:04	110-54-3	N2
2-Hexanone	ND	ug/kg	85.6	1		06/13/12 23:04	591-78-6	
Iodomethane	ND	ug/kg	85.6	1		06/13/12 23:04	74-88-4	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5064038

Sample: MMW-C-17D (18-20) **Lab ID: 5064038004** Collected: 06/05/12 15:07 Received: 06/06/12 16:05 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	4.3	1		06/13/12 23:04	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.3	1		06/13/12 23:04	99-87-6	
Methylene Chloride	ND	ug/kg	17.1	1		06/13/12 23:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	21.4	1		06/13/12 23:04	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.3	1		06/13/12 23:04	1634-04-4	
Naphthalene	ND	ug/kg	4.3	1		06/13/12 23:04	91-20-3	
n-Propylbenzene	ND	ug/kg	4.3	1		06/13/12 23:04	103-65-1	
Styrene	ND	ug/kg	4.3	1		06/13/12 23:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.3	1		06/13/12 23:04	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.3	1		06/13/12 23:04	79-34-5	
Tetrachloroethene	ND	ug/kg	4.3	1		06/13/12 23:04	127-18-4	
Toluene	ND	ug/kg	4.3	1		06/13/12 23:04	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.3	1		06/13/12 23:04	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.3	1		06/13/12 23:04	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.3	1		06/13/12 23:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.3	1		06/13/12 23:04	79-00-5	
Trichloroethene	ND	ug/kg	4.3	1		06/13/12 23:04	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.3	1		06/13/12 23:04	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.3	1		06/13/12 23:04	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.3	1		06/13/12 23:04	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.3	1		06/13/12 23:04	108-67-8	
Vinyl acetate	ND	ug/kg	85.6	1		06/13/12 23:04	108-05-4	
Vinyl chloride	ND	ug/kg	4.3	1		06/13/12 23:04	75-01-4	
Xylene (Total)	ND	ug/kg	8.6	1		06/13/12 23:04	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%.	71-125	1		06/13/12 23:04	1868-53-7	
Toluene-d8 (S)	96	%.	76-124	1		06/13/12 23:04	2037-26-5	
4-Bromofluorobenzene (S)	95	%.	67-134	1		06/13/12 23:04	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**6.5**	%	0.10	1		06/12/12 16:19		
Organic Carbon Walkley Black	Analytical Method: Walkley Black							
Total Organic Carbon	**6580**	mg/kg	660	1	06/14/12 09:15	06/14/12 14:16	7440-44-0	
Total Organic Carbon	**5380**	mg/kg	660	1	06/14/12 09:15	06/14/12 14:16	7440-44-0	
Total Organic Carbon	**6790**	mg/kg	660	1	06/14/12 09:15	06/14/12 14:16	7440-44-0	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5064038

Sample: MMW-C-17D (38-38.8) **Lab ID: 5064038005** Collected: 06/05/12 16:39 Received: 06/06/12 16:05 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	83.8	1		06/14/12 15:58	67-64-1	
Acrolein	ND	ug/kg	83.8	1		06/14/12 15:58	107-02-8	
Acrylonitrile	ND	ug/kg	83.8	1		06/14/12 15:58	107-13-1	
Benzene	ND	ug/kg	4.2	1		06/14/12 15:58	71-43-2	
Bromobenzene	ND	ug/kg	4.2	1		06/14/12 15:58	108-86-1	
Bromochloromethane	ND	ug/kg	4.2	1		06/14/12 15:58	74-97-5	
Bromodichloromethane	ND	ug/kg	4.2	1		06/14/12 15:58	75-27-4	
Bromoform	ND	ug/kg	4.2	1		06/14/12 15:58	75-25-2	
Bromomethane	ND	ug/kg	4.2	1		06/14/12 15:58	74-83-9	
2-Butanone (MEK)	ND	ug/kg	20.9	1		06/14/12 15:58	78-93-3	
n-Butylbenzene	ND	ug/kg	4.2	1		06/14/12 15:58	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.2	1		06/14/12 15:58	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.2	1		06/14/12 15:58	98-06-6	
Carbon disulfide	ND	ug/kg	8.4	1		06/14/12 15:58	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.2	1		06/14/12 15:58	56-23-5	
Chlorobenzene	ND	ug/kg	4.2	1		06/14/12 15:58	108-90-7	
Chloroethane	ND	ug/kg	4.2	1		06/14/12 15:58	75-00-3	
Chloroform	ND	ug/kg	4.2	1		06/14/12 15:58	67-66-3	
Chloromethane	ND	ug/kg	4.2	1		06/14/12 15:58	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.2	1		06/14/12 15:58	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.2	1		06/14/12 15:58	106-43-4	
Dibromochloromethane	ND	ug/kg	4.2	1		06/14/12 15:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.2	1		06/14/12 15:58	106-93-4	
Dibromomethane	ND	ug/kg	4.2	1		06/14/12 15:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.2	1		06/14/12 15:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.2	1		06/14/12 15:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.2	1		06/14/12 15:58	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	83.8	1		06/14/12 15:58	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.2	1		06/14/12 15:58	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.2	1		06/14/12 15:58	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.2	1		06/14/12 15:58	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.2	1		06/14/12 15:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.2	1		06/14/12 15:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.2	1		06/14/12 15:58	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.2	1		06/14/12 15:58	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.2	1		06/14/12 15:58	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.2	1		06/14/12 15:58	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.2	1		06/14/12 15:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.2	1		06/14/12 15:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.2	1		06/14/12 15:58	10061-02-6	
Ethylbenzene	ND	ug/kg	4.2	1		06/14/12 15:58	100-41-4	
Ethyl methacrylate	ND	ug/kg	83.8	1		06/14/12 15:58	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.2	1		06/14/12 15:58	87-68-3	
n-Hexane	ND	ug/kg	4.2	1		06/14/12 15:58	110-54-3	N2
2-Hexanone	ND	ug/kg	83.8	1		06/14/12 15:58	591-78-6	
Iodomethane	ND	ug/kg	83.8	1		06/14/12 15:58	74-88-4	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5064038

Sample: MMW-C-17D (38-38.8) **Lab ID: 5064038005** Collected: 06/05/12 16:39 Received: 06/06/12 16:05 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	4.2	1		06/14/12 15:58	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.2	1		06/14/12 15:58	99-87-6	
Methylene Chloride	ND	ug/kg	16.8	1		06/14/12 15:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	20.9	1		06/14/12 15:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.2	1		06/14/12 15:58	1634-04-4	
Naphthalene	ND	ug/kg	4.5	1		06/15/12 20:38	91-20-3	
n-Propylbenzene	ND	ug/kg	4.2	1		06/14/12 15:58	103-65-1	
Styrene	ND	ug/kg	4.2	1		06/14/12 15:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.2	1		06/14/12 15:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.2	1		06/14/12 15:58	79-34-5	
Tetrachloroethene	ND	ug/kg	4.2	1		06/14/12 15:58	127-18-4	
Toluene	ND	ug/kg	4.2	1		06/14/12 15:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.2	1		06/14/12 15:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.2	1		06/14/12 15:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.2	1		06/14/12 15:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.2	1		06/14/12 15:58	79-00-5	
Trichloroethene	ND	ug/kg	4.2	1		06/14/12 15:58	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.2	1		06/14/12 15:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.2	1		06/14/12 15:58	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.2	1		06/14/12 15:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.2	1		06/14/12 15:58	108-67-8	
Vinyl acetate	ND	ug/kg	83.8	1		06/14/12 15:58	108-05-4	
Vinyl chloride	ND	ug/kg	4.2	1		06/14/12 15:58	75-01-4	
Xylene (Total)	ND	ug/kg	8.4	1		06/14/12 15:58	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	92	%.	71-125	1		06/14/12 15:58	1868-53-7	
Toluene-d8 (S)	99	%.	76-124	1		06/14/12 15:58	2037-26-5	
4-Bromofluorobenzene (S)	95	%.	67-134	1		06/14/12 15:58	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**13.9**	%	0.10	1		06/12/12 16:20		
Organic Carbon Walkley Black	Analytical Method: Walkley Black							
Total Organic Carbon	**9240**	mg/kg	926	1	06/14/12 09:15	06/14/12 14:16	7440-44-0	
Total Organic Carbon	**9660**	mg/kg	926	1	06/14/12 09:15	06/14/12 14:16	7440-44-0	
Total Organic Carbon	**9100**	mg/kg	926	1	06/14/12 09:15	06/14/12 14:16	7440-44-0	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5064038

Sample: DUP 1 **Lab ID: 5064038006** Collected: 06/05/12 00:00 Received: 06/06/12 16:05 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Acetone	ND	ug/kg	76.4	1		06/14/12 17:35	67-64-1	
Acrolein	ND	ug/kg	76.4	1		06/14/12 17:35	107-02-8	
Acrylonitrile	ND	ug/kg	76.4	1		06/14/12 17:35	107-13-1	
Benzene	ND	ug/kg	3.8	1		06/14/12 17:35	71-43-2	
Bromobenzene	ND	ug/kg	3.8	1		06/14/12 17:35	108-86-1	
Bromochloromethane	ND	ug/kg	3.8	1		06/14/12 17:35	74-97-5	
Bromodichloromethane	ND	ug/kg	3.8	1		06/14/12 17:35	75-27-4	
Bromoform	ND	ug/kg	3.8	1		06/14/12 17:35	75-25-2	
Bromomethane	ND	ug/kg	3.8	1		06/14/12 17:35	74-83-9	
2-Butanone (MEK)	ND	ug/kg	19.1	1		06/14/12 17:35	78-93-3	
n-Butylbenzene	ND	ug/kg	3.8	1		06/14/12 17:35	104-51-8	
sec-Butylbenzene	ND	ug/kg	3.8	1		06/14/12 17:35	135-98-8	
tert-Butylbenzene	ND	ug/kg	3.8	1		06/14/12 17:35	98-06-6	
Carbon disulfide	ND	ug/kg	7.6	1		06/14/12 17:35	75-15-0	
Carbon tetrachloride	ND	ug/kg	3.8	1		06/14/12 17:35	56-23-5	
Chlorobenzene	ND	ug/kg	3.8	1		06/14/12 17:35	108-90-7	
Chloroethane	ND	ug/kg	3.8	1		06/14/12 17:35	75-00-3	
Chloroform	ND	ug/kg	3.8	1		06/14/12 17:35	67-66-3	
Chloromethane	ND	ug/kg	3.8	1		06/14/12 17:35	74-87-3	
2-Chlorotoluene	ND	ug/kg	3.8	1		06/14/12 17:35	95-49-8	
4-Chlorotoluene	ND	ug/kg	3.8	1		06/14/12 17:35	106-43-4	
Dibromochloromethane	ND	ug/kg	3.8	1		06/14/12 17:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.8	1		06/14/12 17:35	106-93-4	
Dibromomethane	ND	ug/kg	3.8	1		06/14/12 17:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.8	1		06/14/12 17:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.8	1		06/14/12 17:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.8	1		06/14/12 17:35	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	76.4	1		06/14/12 17:35	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	3.8	1		06/14/12 17:35	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.8	1		06/14/12 17:35	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.8	1		06/14/12 17:35	107-06-2	
1,1-Dichloroethene	ND	ug/kg	3.8	1		06/14/12 17:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	3.8	1		06/14/12 17:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.8	1		06/14/12 17:35	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.8	1		06/14/12 17:35	78-87-5	
1,3-Dichloropropane	ND	ug/kg	3.8	1		06/14/12 17:35	142-28-9	
2,2-Dichloropropane	ND	ug/kg	3.8	1		06/14/12 17:35	594-20-7	
1,1-Dichloropropene	ND	ug/kg	3.8	1		06/14/12 17:35	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	3.8	1		06/14/12 17:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.8	1		06/14/12 17:35	10061-02-6	
Ethylbenzene	ND	ug/kg	3.8	1		06/14/12 17:35	100-41-4	
Ethyl methacrylate	ND	ug/kg	76.4	1		06/14/12 17:35	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	3.8	1		06/14/12 17:35	87-68-3	
n-Hexane	ND	ug/kg	3.8	1		06/14/12 17:35	110-54-3	N2
2-Hexanone	ND	ug/kg	76.4	1		06/14/12 17:35	591-78-6	
Iodomethane	ND	ug/kg	76.4	1		06/14/12 17:35	74-88-4	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5064038

Sample: DUP 1 **Lab ID: 5064038006** Collected: 06/05/12 00:00 Received: 06/06/12 16:05 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Isopropylbenzene (Cumene)	ND	ug/kg	3.8	1		06/14/12 17:35	98-82-8	
p-Isopropyltoluene	ND	ug/kg	3.8	1		06/14/12 17:35	99-87-6	
Methylene Chloride	ND	ug/kg	15.3	1		06/14/12 17:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	19.1	1		06/14/12 17:35	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	3.8	1		06/14/12 17:35	1634-04-4	
Naphthalene	ND	ug/kg	3.8	1		06/14/12 17:35	91-20-3	
n-Propylbenzene	ND	ug/kg	3.8	1		06/14/12 17:35	103-65-1	
Styrene	ND	ug/kg	3.8	1		06/14/12 17:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.8	1		06/14/12 17:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.8	1		06/14/12 17:35	79-34-5	
Tetrachloroethene	ND	ug/kg	3.8	1		06/14/12 17:35	127-18-4	
Toluene	ND	ug/kg	3.8	1		06/14/12 17:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	3.8	1		06/14/12 17:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	3.8	1		06/14/12 17:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	3.8	1		06/14/12 17:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.8	1		06/14/12 17:35	79-00-5	
Trichloroethene	ND	ug/kg	3.8	1		06/14/12 17:35	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.8	1		06/14/12 17:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	3.8	1		06/14/12 17:35	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	3.8	1		06/14/12 17:35	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	3.8	1		06/14/12 17:35	108-67-8	
Vinyl acetate	ND	ug/kg	76.4	1		06/14/12 17:35	108-05-4	
Vinyl chloride	**78.2**	ug/kg	3.8	1		06/14/12 17:35	75-01-4	
Xylene (Total)	ND	ug/kg	7.6	1		06/14/12 17:35	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%.	71-125	1		06/14/12 17:35	1868-53-7	
Toluene-d8 (S)	99	%.	76-124	1		06/14/12 17:35	2037-26-5	
4-Bromofluorobenzene (S)	94	%.	67-134	1		06/14/12 17:35	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**12.3**	%	0.10	1		06/12/12 16:20		
Organic Carbon Walkley Black	Analytical Method: Walkley Black							
Total Organic Carbon	**7160**	mg/kg	606	1	06/14/12 09:15	06/14/12 14:16	7440-44-0	
Total Organic Carbon	**7340**	mg/kg	606	1	06/14/12 09:15	06/14/12 14:16	7440-44-0	
Total Organic Carbon	**7430**	mg/kg	606	1	06/14/12 09:15	06/14/12 14:16	7440-44-0	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5064038

Sample: Trip Blank **Lab ID: 5064038007** Collected: 06/04/12 09:00 Received: 06/06/12 16:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		06/14/12 18:08	67-64-1	
Acrolein	ND	ug/L	50.0	1		06/14/12 18:08	107-02-8	
Acrylonitrile	ND	ug/L	100	1		06/14/12 18:08	107-13-1	
Benzene	ND	ug/L	5.0	1		06/14/12 18:08	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		06/14/12 18:08	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		06/14/12 18:08	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		06/14/12 18:08	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/14/12 18:08	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/14/12 18:08	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		06/14/12 18:08	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		06/14/12 18:08	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		06/14/12 18:08	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		06/14/12 18:08	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		06/14/12 18:08	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/14/12 18:08	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/14/12 18:08	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/14/12 18:08	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/14/12 18:08	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/14/12 18:08	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		06/14/12 18:08	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		06/14/12 18:08	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		06/14/12 18:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		06/14/12 18:08	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		06/14/12 18:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/14/12 18:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/14/12 18:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/14/12 18:08	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		06/14/12 18:08	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		06/14/12 18:08	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/14/12 18:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/14/12 18:08	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/14/12 18:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/14/12 18:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/14/12 18:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/14/12 18:08	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		06/14/12 18:08	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		06/14/12 18:08	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		06/14/12 18:08	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/14/12 18:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/14/12 18:08	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/14/12 18:08	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		06/14/12 18:08	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		06/14/12 18:08	87-68-3	
n-Hexane	ND	ug/L	5.0	1		06/14/12 18:08	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		06/14/12 18:08	591-78-6	
Iodomethane	ND	ug/L	10.0	1		06/14/12 18:08	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		06/14/12 18:08	98-82-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5064038

Sample: Trip Blank **Lab ID: 5064038007** Collected: 06/04/12 09:00 Received: 06/06/12 16:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
p-Isopropyltoluene	ND	ug/L	5.0	1		06/14/12 18:08	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		06/14/12 18:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		06/14/12 18:08	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		06/14/12 18:08	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		06/15/12 20:05	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		06/14/12 18:08	103-65-1	
Styrene	ND	ug/L	5.0	1		06/14/12 18:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		06/14/12 18:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/14/12 18:08	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/14/12 18:08	127-18-4	
Toluene	ND	ug/L	5.0	1		06/14/12 18:08	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		06/14/12 18:08	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		06/14/12 18:08	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/14/12 18:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/14/12 18:08	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/14/12 18:08	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/14/12 18:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		06/14/12 18:08	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		06/14/12 18:08	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		06/14/12 18:08	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		06/14/12 18:08	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		06/14/12 18:08	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		06/14/12 18:08	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	92	%.	83-123	1		06/14/12 18:08	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	72-125	1		06/14/12 18:08	460-00-4	
Toluene-d8 (S)	96	%.	81-114	1		06/14/12 18:08	2037-26-5	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5064038

QC Batch: MSV/43003 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 5064038007

METHOD BLANK: 749901 | Matrix: Water
Associated Lab Samples: 5064038007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	06/14/12 13:17	
1,1,1-Trichloroethane	ug/L	ND	5.0	06/14/12 13:17	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	06/14/12 13:17	
1,1,2-Trichloroethane	ug/L	ND	5.0	06/14/12 13:17	
1,1-Dichloroethane	ug/L	ND	5.0	06/14/12 13:17	
1,1-Dichloroethene	ug/L	ND	5.0	06/14/12 13:17	
1,1-Dichloropropene	ug/L	ND	5.0	06/14/12 13:17	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	06/14/12 13:17	
1,2,3-Trichloropropane	ug/L	ND	5.0	06/14/12 13:17	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/14/12 13:17	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	06/14/12 13:17	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	06/14/12 13:17	
1,2-Dichlorobenzene	ug/L	ND	5.0	06/14/12 13:17	
1,2-Dichloroethane	ug/L	ND	5.0	06/14/12 13:17	
1,2-Dichloropropane	ug/L	ND	5.0	06/14/12 13:17	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	06/14/12 13:17	
1,3-Dichlorobenzene	ug/L	ND	5.0	06/14/12 13:17	
1,3-Dichloropropane	ug/L	ND	5.0	06/14/12 13:17	
1,4-Dichlorobenzene	ug/L	ND	5.0	06/14/12 13:17	
2,2-Dichloropropane	ug/L	ND	5.0	06/14/12 13:17	
2-Butanone (MEK)	ug/L	ND	25.0	06/14/12 13:17	
2-Chlorotoluene	ug/L	ND	5.0	06/14/12 13:17	
2-Hexanone	ug/L	ND	25.0	06/14/12 13:17	
4-Chlorotoluene	ug/L	ND	5.0	06/14/12 13:17	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	06/14/12 13:17	
Acetone	ug/L	ND	100	06/14/12 13:17	
Acrolein	ug/L	ND	50.0	06/14/12 13:17	
Acrylonitrile	ug/L	ND	100	06/14/12 13:17	
Benzene	ug/L	ND	5.0	06/14/12 13:17	
Bromobenzene	ug/L	ND	5.0	06/14/12 13:17	
Bromochloromethane	ug/L	ND	5.0	06/14/12 13:17	
Bromodichloromethane	ug/L	ND	5.0	06/14/12 13:17	
Bromoform	ug/L	ND	5.0	06/14/12 13:17	
Bromomethane	ug/L	ND	5.0	06/14/12 13:17	
Carbon disulfide	ug/L	ND	10.0	06/14/12 13:17	
Carbon tetrachloride	ug/L	ND	5.0	06/14/12 13:17	
Chlorobenzene	ug/L	ND	5.0	06/14/12 13:17	
Chloroethane	ug/L	ND	5.0	06/14/12 13:17	
Chloroform	ug/L	ND	5.0	06/14/12 13:17	
Chloromethane	ug/L	ND	5.0	06/14/12 13:17	
cis-1,2-Dichloroethene	ug/L	ND	5.0	06/14/12 13:17	
cis-1,3-Dichloropropene	ug/L	ND	5.0	06/14/12 13:17	
Dibromochloromethane	ug/L	ND	5.0	06/14/12 13:17	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5064038

METHOD BLANK: 749901 Matrix: Water

Associated Lab Samples: 5064038007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	5.0	06/14/12 13:17	
Dichlorodifluoromethane	ug/L	ND	5.0	06/14/12 13:17	
Ethyl methacrylate	ug/L	ND	100	06/14/12 13:17	
Ethylbenzene	ug/L	ND	5.0	06/14/12 13:17	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	06/14/12 13:17	
Iodomethane	ug/L	ND	10.0	06/14/12 13:17	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	06/14/12 13:17	
Methyl-tert-butyl ether	ug/L	ND	4.0	06/14/12 13:17	
Methylene Chloride	ug/L	ND	5.0	06/14/12 13:17	
n-Butylbenzene	ug/L	ND	5.0	06/14/12 13:17	
n-Hexane	ug/L	ND	5.0	06/14/12 13:17	N2
n-Propylbenzene	ug/L	ND	5.0	06/14/12 13:17	
Naphthalene	ug/L	ND	5.0	06/14/12 13:17	
p-Isopropyltoluene	ug/L	ND	5.0	06/14/12 13:17	
sec-Butylbenzene	ug/L	ND	5.0	06/14/12 13:17	
Styrene	ug/L	ND	5.0	06/14/12 13:17	
tert-Butylbenzene	ug/L	ND	5.0	06/14/12 13:17	
Tetrachloroethene	ug/L	ND	5.0	06/14/12 13:17	
Toluene	ug/L	ND	5.0	06/14/12 13:17	
trans-1,2-Dichloroethene	ug/L	ND	5.0	06/14/12 13:17	
trans-1,3-Dichloropropene	ug/L	ND	5.0	06/14/12 13:17	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	06/14/12 13:17	
Trichloroethene	ug/L	ND	5.0	06/14/12 13:17	
Trichlorofluoromethane	ug/L	ND	5.0	06/14/12 13:17	
Vinyl acetate	ug/L	ND	50.0	06/14/12 13:17	
Vinyl chloride	ug/L	ND	2.0	06/14/12 13:17	
Xylene (Total)	ug/L	ND	10.0	06/14/12 13:17	
4-Bromofluorobenzene (S)	%.	98	72-125	06/14/12 13:17	
Dibromofluoromethane (S)	%.	97	83-123	06/14/12 13:17	
Toluene-d8 (S)	%.	98	81-114	06/14/12 13:17	

LABORATORY CONTROL SAMPLE: 749902

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	46.9	94	69-122	
1,1,1-Trichloroethane	ug/L	50	47.3	95	69-126	
1,1,2,2-Tetrachloroethane	ug/L	50	46.4	93	68-134	
1,1,2-Trichloroethane	ug/L	50	49.8	100	77-129	
1,1-Dichloroethane	ug/L	50	43.5	87	70-127	
1,1-Dichloroethene	ug/L	50	50.9	102	75-145	
1,1-Dichloropropene	ug/L	50	49.4	99	75-126	
1,2,3-Trichlorobenzene	ug/L	50	51.1	102	63-130	
1,2,3-Trichloropropane	ug/L	50	70.0	140	45-121	L3
1,2,4-Trichlorobenzene	ug/L	50	53.4	107	64-122	
1,2,4-Trimethylbenzene	ug/L	50	51.2	102	68-129	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5064038

LABORATORY CONTROL SAMPLE: 749902

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	50	48.9	98	77-123	
1,2-Dichlorobenzene	ug/L	50	51.1	102	74-123	
1,2-Dichloroethane	ug/L	50	52.4	105	71-127	
1,2-Dichloropropane	ug/L	50	49.1	98	75-126	
1,3,5-Trimethylbenzene	ug/L	50	50.3	101	69-129	
1,3-Dichlorobenzene	ug/L	50	50.9	102	76-123	
1,3-Dichloropropane	ug/L	50	47.1	94	77-126	
1,4-Dichlorobenzene	ug/L	50	51.2	102	77-121	
2,2-Dichloropropane	ug/L	50	46.5	93	45-138	
2-Butanone (MEK)	ug/L	250	208	83	42-177	
2-Chlorotoluene	ug/L	50	48.7	97	74-129	
2-Hexanone	ug/L	250	213	85	57-162	
4-Chlorotoluene	ug/L	50	51.6	103	70-125	
4-Methyl-2-pentanone (MIBK)	ug/L	250	213	85	64-135	
Acetone	ug/L	250	261	105	10-200	
Acrolein	ug/L	1000	1170	117	10-200	
Acrylonitrile	ug/L	1000	810	81	59-144	
Benzene	ug/L	50	50.7	101	76-123	
Bromobenzene	ug/L	50	46.2	92	67-130	
Bromochloromethane	ug/L	50	46.4	93	58-153	
Bromodichloromethane	ug/L	50	49.4	99	71-124	
Bromoform	ug/L	50	43.7	87	64-116	
Bromomethane	ug/L	50	47.2	94	23-197	
Carbon disulfide	ug/L	100	91.9	92	55-146	
Carbon tetrachloride	ug/L	50	46.8	94	65-125	
Chlorobenzene	ug/L	50	48.5	97	78-120	
Chloroethane	ug/L	50	42.8	86	56-163	
Chloroform	ug/L	50	48.6	97	73-122	
Chloromethane	ug/L	50	38.2	76	46-146	
cis-1,2-Dichloroethene	ug/L	50	47.2	94	79-129	
cis-1,3-Dichloropropene	ug/L	50	44.8	90	66-123	
Dibromochloromethane	ug/L	50	44.6	89	70-123	
Dibromomethane	ug/L	50	51.7	103	73-123	
Dichlorodifluoromethane	ug/L	50	32.2	64	19-200	
Ethyl methacrylate	ug/L	200	180	90	70-127	
Ethylbenzene	ug/L	50	49.6	99	75-120	
Hexachloro-1,3-butadiene	ug/L	50	52.4	105	64-131	
Iodomethane	ug/L	100	95.5	96	16-181	
Isopropylbenzene (Cumene)	ug/L	50	46.3	93	73-123	
Methyl-tert-butyl ether	ug/L	100	95.7	96	66-128	
Methylene Chloride	ug/L	50	54.0	108	61-138	
n-Butylbenzene	ug/L	50	50.4	101	69-130	
n-Hexane	ug/L	50	38.4	77	67-142	N2
n-Propylbenzene	ug/L	50	49.1	98	71-132	
Naphthalene	ug/L	50	47.5	95	62-130	
p-Isopropyltoluene	ug/L	50	52.8	106	71-126	
sec-Butylbenzene	ug/L	50	49.4	99	69-130	
Styrene	ug/L	50	48.8	98	75-125	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5064038

LABORATORY CONTROL SAMPLE: 749902

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	48.0	96	49-114	
Tetrachloroethene	ug/L	50	48.4	97	57-125	
Toluene	ug/L	50	49.5	99	72-124	
trans-1,2-Dichloroethene	ug/L	50	47.3	95	71-145	
trans-1,3-Dichloropropene	ug/L	50	47.6	95	58-118	
trans-1,4-Dichloro-2-butene	ug/L	200	152	76	50-121	
Trichloroethene	ug/L	50	52.0	104	77-122	
Trichlorofluoromethane	ug/L	50	50.2	100	56-159	
Vinyl acetate	ug/L	200	78.1	39	27-119	
Vinyl chloride	ug/L	50	42.0	84	61-146	
Xylene (Total)	ug/L	150	148	99	72-126	
4-Bromofluorobenzene (S)	%.			97	72-125	
Dibromofluoromethane (S)	%.			102	83-123	
Toluene-d8 (S)	%.			97	81-114	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5064038

QC Batch: MSV/42994 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 5064038001, 5064038002, 5064038003, 5064038004

METHOD BLANK: 749843 Matrix: Solid
Associated Lab Samples: 5064038001, 5064038002, 5064038003, 5064038004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	06/13/12 15:34	
1,1,1-Trichloroethane	ug/kg	ND	5.0	06/13/12 15:34	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	06/13/12 15:34	
1,1,2-Trichloroethane	ug/kg	ND	5.0	06/13/12 15:34	
1,1-Dichloroethane	ug/kg	ND	5.0	06/13/12 15:34	
1,1-Dichloroethene	ug/kg	ND	5.0	06/13/12 15:34	
1,1-Dichloropropene	ug/kg	ND	5.0	06/13/12 15:34	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	06/13/12 15:34	
1,2,3-Trichloropropane	ug/kg	ND	5.0	06/13/12 15:34	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	06/13/12 15:34	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	06/13/12 15:34	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	06/13/12 15:34	
1,2-Dichlorobenzene	ug/kg	ND	5.0	06/13/12 15:34	
1,2-Dichloroethane	ug/kg	ND	5.0	06/13/12 15:34	
1,2-Dichloropropane	ug/kg	ND	5.0	06/13/12 15:34	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	06/13/12 15:34	
1,3-Dichlorobenzene	ug/kg	ND	5.0	06/13/12 15:34	
1,3-Dichloropropane	ug/kg	ND	5.0	06/13/12 15:34	
1,4-Dichlorobenzene	ug/kg	ND	5.0	06/13/12 15:34	
2,2-Dichloropropane	ug/kg	ND	5.0	06/13/12 15:34	
2-Butanone (MEK)	ug/kg	ND	25.0	06/13/12 15:34	
2-Chlorotoluene	ug/kg	ND	5.0	06/13/12 15:34	
2-Hexanone	ug/kg	ND	100	06/13/12 15:34	
4-Chlorotoluene	ug/kg	ND	5.0	06/13/12 15:34	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	06/13/12 15:34	
Acetone	ug/kg	ND	100	06/13/12 15:34	
Acrolein	ug/kg	ND	100	06/13/12 15:34	
Acrylonitrile	ug/kg	ND	100	06/13/12 15:34	
Benzene	ug/kg	ND	5.0	06/13/12 15:34	
Bromobenzene	ug/kg	ND	5.0	06/13/12 15:34	
Bromochloromethane	ug/kg	ND	5.0	06/13/12 15:34	
Bromodichloromethane	ug/kg	ND	5.0	06/13/12 15:34	
Bromoform	ug/kg	ND	5.0	06/13/12 15:34	
Bromomethane	ug/kg	ND	5.0	06/13/12 15:34	
Carbon disulfide	ug/kg	ND	10.0	06/13/12 15:34	
Carbon tetrachloride	ug/kg	ND	5.0	06/13/12 15:34	
Chlorobenzene	ug/kg	ND	5.0	06/13/12 15:34	
Chloroethane	ug/kg	ND	5.0	06/13/12 15:34	
Chloroform	ug/kg	ND	5.0	06/13/12 15:34	
Chloromethane	ug/kg	ND	5.0	06/13/12 15:34	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	06/13/12 15:34	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	06/13/12 15:34	
Dibromochloromethane	ug/kg	ND	5.0	06/13/12 15:34	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5064038

METHOD BLANK: 749843 Matrix: Solid

Associated Lab Samples: 5064038001, 5064038002, 5064038003, 5064038004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	5.0	06/13/12 15:34	
Dichlorodifluoromethane	ug/kg	ND	5.0	06/13/12 15:34	
Ethyl methacrylate	ug/kg	ND	100	06/13/12 15:34	
Ethylbenzene	ug/kg	ND	5.0	06/13/12 15:34	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	06/13/12 15:34	
Iodomethane	ug/kg	ND	100	06/13/12 15:34	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	06/13/12 15:34	
Methyl-tert-butyl ether	ug/kg	ND	5.0	06/13/12 15:34	
Methylene Chloride	ug/kg	ND	20.0	06/13/12 15:34	
n-Butylbenzene	ug/kg	ND	5.0	06/13/12 15:34	
n-Hexane	ug/kg	ND	5.0	06/13/12 15:34	N2
n-Propylbenzene	ug/kg	ND	5.0	06/13/12 15:34	
Naphthalene	ug/kg	ND	5.0	06/13/12 15:34	
p-Isopropyltoluene	ug/kg	ND	5.0	06/13/12 15:34	
sec-Butylbenzene	ug/kg	ND	5.0	06/13/12 15:34	
Styrene	ug/kg	ND	5.0	06/13/12 15:34	
tert-Butylbenzene	ug/kg	ND	5.0	06/13/12 15:34	
Tetrachloroethene	ug/kg	ND	5.0	06/13/12 15:34	
Toluene	ug/kg	ND	5.0	06/13/12 15:34	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	06/13/12 15:34	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	06/13/12 15:34	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	06/13/12 15:34	
Trichloroethene	ug/kg	ND	5.0	06/13/12 15:34	
Trichlorofluoromethane	ug/kg	ND	5.0	06/13/12 15:34	
Vinyl acetate	ug/kg	ND	100	06/13/12 15:34	
Vinyl chloride	ug/kg	ND	5.0	06/13/12 15:34	
Xylene (Total)	ug/kg	ND	10.0	06/13/12 15:34	
4-Bromofluorobenzene (S)	%.	96	67-134	06/13/12 15:34	
Dibromofluoromethane (S)	%.	96	71-125	06/13/12 15:34	
Toluene-d8 (S)	%.	95	76-124	06/13/12 15:34	

LABORATORY CONTROL SAMPLE: 749844

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	44.6	89	68-125	
1,1,1-Trichloroethane	ug/kg	50	45.5	91	63-124	
1,1,2,2-Tetrachloroethane	ug/kg	50	50.6	101	73-123	
1,1,2-Trichloroethane	ug/kg	50	46.2	92	70-124	
1,1-Dichloroethane	ug/kg	50	44.5	89	63-122	
1,1-Dichloroethene	ug/kg	50	49.6	99	71-129	
1,1-Dichloropropene	ug/kg	50	48.3	97	71-122	
1,2,3-Trichlorobenzene	ug/kg	50	50.5	101	68-123	
1,2,3-Trichloropropane	ug/kg	50	74.0	148	47-117	L3
1,2,4-Trichlorobenzene	ug/kg	50	53.0	106	68-125	
1,2,4-Trimethylbenzene	ug/kg	50	50.1	100	69-120	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5064038

LABORATORY CONTROL SAMPLE: 749844

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/kg	50	45.8	92	67-121	
1,2-Dichlorobenzene	ug/kg	50	47.6	95	71-121	
1,2-Dichloroethane	ug/kg	50	48.9	98	74-120	
1,2-Dichloropropane	ug/kg	50	57.8	116	71-117	
1,3,5-Trimethylbenzene	ug/kg	50	50.2	100	64-119	
1,3-Dichlorobenzene	ug/kg	50	46.0	92	70-122	
1,3-Dichloropropane	ug/kg	50	43.3	87	68-118	
1,4-Dichlorobenzene	ug/kg	50	49.5	99	71-118	
2,2-Dichloropropane	ug/kg	50	46.8	94	62-119	
2-Butanone (MEK)	ug/kg	250	216	86	38-154	
2-Chlorotoluene	ug/kg	50	49.2	98	71-120	
2-Hexanone	ug/kg	250	201	80	50-134	
4-Chlorotoluene	ug/kg	50	46.7	93	72-123	
4-Methyl-2-pentanone (MIBK)	ug/kg	250	249	99	66-122	
Acetone	ug/kg	250	252	101	10-200	
Acrolein	ug/kg	1000	1070	107	11-200	
Acrylonitrile	ug/kg	1000	824	82	66-120	
Benzene	ug/kg	50	47.0	94	73-115	
Bromobenzene	ug/kg	50	50.5	101	64-130	
Bromochloromethane	ug/kg	50	44.5	89	71-127	
Bromodichloromethane	ug/kg	50	52.3	105	60-121	
Bromoform	ug/kg	50	40.7	81	44-130	
Bromomethane	ug/kg	50	51.1	102	48-175	
Carbon disulfide	ug/kg	100	92.6	93	71-126	
Carbon tetrachloride	ug/kg	50	43.5	87	57-127	
Chlorobenzene	ug/kg	50	49.0	98	72-121	
Chloroethane	ug/kg	50	48.1	96	72-141	
Chloroform	ug/kg	50	49.9	100	74-114	
Chloromethane	ug/kg	50	41.0	82	51-126	
cis-1,2-Dichloroethene	ug/kg	50	46.3	93	72-115	
cis-1,3-Dichloropropene	ug/kg	50	49.2	98	64-115	
Dibromochloromethane	ug/kg	50	38.5	77	58-114	
Dibromomethane	ug/kg	50	56.1	112	73-120	
Dichlorodifluoromethane	ug/kg	50	35.7	71	32-167	
Ethyl methacrylate	ug/kg	200	177	88	65-117	
Ethylbenzene	ug/kg	50	48.3	97	73-120	
Hexachloro-1,3-butadiene	ug/kg	50	50.6	101	65-121	
Iodomethane	ug/kg	100	95.9J	96	45-156	
Isopropylbenzene (Cumene)	ug/kg	50	47.9	96	74-123	
Methyl-tert-butyl ether	ug/kg	100	91.4	91	69-123	
Methylene Chloride	ug/kg	50	47.7	95	58-124	
n-Butylbenzene	ug/kg	50	47.9	96	71-118	
n-Hexane	ug/kg	50	41.6	83	50-106	N2
n-Propylbenzene	ug/kg	50	45.8	92	70-120	
Naphthalene	ug/kg	50	54.0	108	67-124	
p-Isopropyltoluene	ug/kg	50	48.1	96	71-123	
sec-Butylbenzene	ug/kg	50	51.0	102	66-122	
Styrene	ug/kg	50	48.6	97	75-118	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5064038

LABORATORY CONTROL SAMPLE: 749844

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/kg	50	47.5	95	54-124	
Tetrachloroethene	ug/kg	50	45.3	91	66-126	
Toluene	ug/kg	50	42.9	86	69-115	
trans-1,2-Dichloroethene	ug/kg	50	45.0	90	69-120	
trans-1,3-Dichloropropene	ug/kg	50	42.5	85	61-116	
trans-1,4-Dichloro-2-butene	ug/kg	200	166	83	59-130	
Trichloroethene	ug/kg	50	52.2	104	71-117	
Trichlorofluoromethane	ug/kg	50	49.2	98	67-138	
Vinyl acetate	ug/kg	200	83.9J	42	35-134	
Vinyl chloride	ug/kg	50	45.9	92	64-127	
Xylene (Total)	ug/kg	150	145	96	69-117	
4-Bromofluorobenzene (S)	%.			109	67-134	
Dibromofluoromethane (S)	%.			97	71-125	
Toluene-d8 (S)	%.			106	76-124	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5064038

QC Batch: MSV/43002
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 5064038005, 5064038006

METHOD BLANK: 749897
Matrix: Solid
Associated Lab Samples: 5064038005, 5064038006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	06/14/12 13:17	
1,1,1-Trichloroethane	ug/kg	ND	5.0	06/14/12 13:17	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	06/14/12 13:17	
1,1,2-Trichloroethane	ug/kg	ND	5.0	06/14/12 13:17	
1,1-Dichloroethane	ug/kg	ND	5.0	06/14/12 13:17	
1,1-Dichloroethene	ug/kg	ND	5.0	06/14/12 13:17	
1,1-Dichloropropene	ug/kg	ND	5.0	06/14/12 13:17	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	06/14/12 13:17	
1,2,3-Trichloropropane	ug/kg	ND	5.0	06/14/12 13:17	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	06/14/12 13:17	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	06/14/12 13:17	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	06/14/12 13:17	
1,2-Dichlorobenzene	ug/kg	ND	5.0	06/14/12 13:17	
1,2-Dichloroethane	ug/kg	ND	5.0	06/14/12 13:17	
1,2-Dichloropropane	ug/kg	ND	5.0	06/14/12 13:17	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	06/14/12 13:17	
1,3-Dichlorobenzene	ug/kg	ND	5.0	06/14/12 13:17	
1,3-Dichloropropane	ug/kg	ND	5.0	06/14/12 13:17	
1,4-Dichlorobenzene	ug/kg	ND	5.0	06/14/12 13:17	
2,2-Dichloropropane	ug/kg	ND	5.0	06/14/12 13:17	
2-Butanone (MEK)	ug/kg	ND	25.0	06/14/12 13:17	
2-Chlorotoluene	ug/kg	ND	5.0	06/14/12 13:17	
2-Hexanone	ug/kg	ND	100	06/14/12 13:17	
4-Chlorotoluene	ug/kg	ND	5.0	06/14/12 13:17	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	06/14/12 13:17	
Acetone	ug/kg	ND	100	06/14/12 13:17	
Acrolein	ug/kg	ND	100	06/14/12 13:17	
Acrylonitrile	ug/kg	ND	100	06/14/12 13:17	
Benzene	ug/kg	ND	5.0	06/14/12 13:17	
Bromobenzene	ug/kg	ND	5.0	06/14/12 13:17	
Bromochloromethane	ug/kg	ND	5.0	06/14/12 13:17	
Bromodichloromethane	ug/kg	ND	5.0	06/14/12 13:17	
Bromoform	ug/kg	ND	5.0	06/14/12 13:17	
Bromomethane	ug/kg	ND	5.0	06/14/12 13:17	
Carbon disulfide	ug/kg	ND	10.0	06/14/12 13:17	
Carbon tetrachloride	ug/kg	ND	5.0	06/14/12 13:17	
Chlorobenzene	ug/kg	ND	5.0	06/14/12 13:17	
Chloroethane	ug/kg	ND	5.0	06/14/12 13:17	
Chloroform	ug/kg	ND	5.0	06/14/12 13:17	
Chloromethane	ug/kg	ND	5.0	06/14/12 13:17	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	06/14/12 13:17	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	06/14/12 13:17	
Dibromochloromethane	ug/kg	ND	5.0	06/14/12 13:17	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5064038

METHOD BLANK: 749897 Matrix: Solid

Associated Lab Samples: 5064038005, 5064038006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	5.0	06/14/12 13:17	
Dichlorodifluoromethane	ug/kg	ND	5.0	06/14/12 13:17	
Ethyl methacrylate	ug/kg	ND	100	06/14/12 13:17	
Ethylbenzene	ug/kg	ND	5.0	06/14/12 13:17	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	06/14/12 13:17	
Iodomethane	ug/kg	ND	100	06/14/12 13:17	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	06/14/12 13:17	
Methyl-tert-butyl ether	ug/kg	ND	5.0	06/14/12 13:17	
Methylene Chloride	ug/kg	ND	20.0	06/14/12 13:17	
n-Butylbenzene	ug/kg	ND	5.0	06/14/12 13:17	
n-Hexane	ug/kg	ND	5.0	06/14/12 13:17	N2
n-Propylbenzene	ug/kg	ND	5.0	06/14/12 13:17	
Naphthalene	ug/kg	ND	5.0	06/14/12 13:17	
p-Isopropyltoluene	ug/kg	ND	5.0	06/14/12 13:17	
sec-Butylbenzene	ug/kg	ND	5.0	06/14/12 13:17	
Styrene	ug/kg	ND	5.0	06/14/12 13:17	
tert-Butylbenzene	ug/kg	ND	5.0	06/14/12 13:17	
Tetrachloroethene	ug/kg	ND	5.0	06/14/12 13:17	
Toluene	ug/kg	ND	5.0	06/14/12 13:17	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	06/14/12 13:17	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	06/14/12 13:17	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	06/14/12 13:17	
Trichloroethene	ug/kg	ND	5.0	06/14/12 13:17	
Trichlorofluoromethane	ug/kg	ND	5.0	06/14/12 13:17	
Vinyl acetate	ug/kg	ND	100	06/14/12 13:17	
Vinyl chloride	ug/kg	ND	5.0	06/14/12 13:17	
Xylene (Total)	ug/kg	ND	10.0	06/14/12 13:17	
4-Bromofluorobenzene (S)	%.	98	67-134	06/14/12 13:17	
Dibromofluoromethane (S)	%.	97	71-125	06/14/12 13:17	
Toluene-d8 (S)	%.	98	76-124	06/14/12 13:17	

LABORATORY CONTROL SAMPLE: 749898

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	46.9	94	68-125	
1,1,1-Trichloroethane	ug/kg	50	47.3	95	63-124	
1,1,2,2-Tetrachloroethane	ug/kg	50	46.4	93	73-123	
1,1,2-Trichloroethane	ug/kg	50	49.8	100	70-124	
1,1-Dichloroethane	ug/kg	50	43.5	87	63-122	
1,1-Dichloroethene	ug/kg	50	50.9	102	71-129	
1,1-Dichloropropene	ug/kg	50	49.4	99	71-122	
1,2,3-Trichlorobenzene	ug/kg	50	51.1	102	68-123	
1,2,3-Trichloropropane	ug/kg	50	70.0	140	47-117	L3
1,2,4-Trichlorobenzene	ug/kg	50	53.4	107	68-125	
1,2,4-Trimethylbenzene	ug/kg	50	51.2	102	69-120	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5064038

LABORATORY CONTROL SAMPLE: 749898

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/kg	50	48.9	98	67-121	
1,2-Dichlorobenzene	ug/kg	50	51.1	102	71-121	
1,2-Dichloroethane	ug/kg	50	52.4	105	74-120	
1,2-Dichloropropane	ug/kg	50	49.1	98	71-117	
1,3,5-Trimethylbenzene	ug/kg	50	50.3	101	64-119	
1,3-Dichlorobenzene	ug/kg	50	50.9	102	70-122	
1,3-Dichloropropane	ug/kg	50	47.1	94	68-118	
1,4-Dichlorobenzene	ug/kg	50	51.2	102	71-118	
2,2-Dichloropropane	ug/kg	50	46.5	93	62-119	
2-Butanone (MEK)	ug/kg	250	208	83	38-154	
2-Chlorotoluene	ug/kg	50	48.7	97	71-120	
2-Hexanone	ug/kg	250	213	85	50-134	
4-Chlorotoluene	ug/kg	50	51.6	103	72-123	
4-Methyl-2-pentanone (MIBK)	ug/kg	250	213	85	66-122	
Acetone	ug/kg	250	261	105	10-200	
Acrolein	ug/kg	1000	1170	117	11-200	
Acrylonitrile	ug/kg	1000	810	81	66-120	
Benzene	ug/kg	50	50.7	101	73-115	
Bromobenzene	ug/kg	50	46.2	92	64-130	
Bromochloromethane	ug/kg	50	46.4	93	71-127	
Bromodichloromethane	ug/kg	50	49.4	99	60-121	
Bromoform	ug/kg	50	43.7	87	44-130	
Bromomethane	ug/kg	50	47.2	94	48-175	
Carbon disulfide	ug/kg	100	91.9	92	71-126	
Carbon tetrachloride	ug/kg	50	46.8	94	57-127	
Chlorobenzene	ug/kg	50	48.5	97	72-121	
Chloroethane	ug/kg	50	42.8	86	72-141	
Chloroform	ug/kg	50	48.6	97	74-114	
Chloromethane	ug/kg	50	38.2	76	51-126	
cis-1,2-Dichloroethene	ug/kg	50	47.2	94	72-115	
cis-1,3-Dichloropropene	ug/kg	50	44.8	90	64-115	
Dibromochloromethane	ug/kg	50	44.6	89	58-114	
Dibromomethane	ug/kg	50	51.7	103	73-120	
Dichlorodifluoromethane	ug/kg	50	32.2	64	32-167	
Ethyl methacrylate	ug/kg	200	180	90	65-117	
Ethylbenzene	ug/kg	50	49.6	99	73-120	
Hexachloro-1,3-butadiene	ug/kg	50	52.4	105	65-121	
Iodomethane	ug/kg	100	95.5J	96	45-156	
Isopropylbenzene (Cumene)	ug/kg	50	46.3	93	74-123	
Methyl-tert-butyl ether	ug/kg	100	95.7	96	69-123	
Methylene Chloride	ug/kg	50	54.0	108	58-124	
n-Butylbenzene	ug/kg	50	50.4	101	71-118	
n-Hexane	ug/kg	50	38.4	77	50-106	N2
n-Propylbenzene	ug/kg	50	49.1	98	70-120	
Naphthalene	ug/kg	50	47.5	95	67-124	
p-Isopropyltoluene	ug/kg	50	52.8	106	71-123	
sec-Butylbenzene	ug/kg	50	49.4	99	66-122	
Styrene	ug/kg	50	48.8	98	75-118	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5064038

LABORATORY CONTROL SAMPLE: 749898

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/kg	50	48.0	96	54-124	
Tetrachloroethene	ug/kg	50	48.4	97	66-126	
Toluene	ug/kg	50	49.5	99	69-115	
trans-1,2-Dichloroethene	ug/kg	50	47.3	95	69-120	
trans-1,3-Dichloropropene	ug/kg	50	47.6	95	61-116	
trans-1,4-Dichloro-2-butene	ug/kg	200	152	76	59-130	
Trichloroethene	ug/kg	50	52.0	104	71-117	
Trichlorofluoromethane	ug/kg	50	50.2	100	67-138	
Vinyl acetate	ug/kg	200	78.1J	39	35-134	
Vinyl chloride	ug/kg	50	42.0	84	64-127	
Xylene (Total)	ug/kg	150	148	99	69-117	
4-Bromofluorobenzene (S)	%.			97	67-134	
Dibromofluoromethane (S)	%.			102	71-125	
Toluene-d8 (S)	%.			97	76-124	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 749899 749900

Parameter	Units	5064038005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/kg	ND	43.7	44.5	14.7	12.3	34	28	10-111	17	20	
1,1,1-Trichloroethane	ug/kg	ND	43.7	44.5	23.5	24.6	54	55	36-128	4	20	
1,1,2,2-Tetrachloroethane	ug/kg	ND	43.7	44.5	12.9	9.8	30	22	10-130	27	20	
1,1,2-Trichloroethane	ug/kg	ND	43.7	44.5	17.6	13.8	40	31	10-126	25	20	
1,1-Dichloroethane	ug/kg	ND	43.7	44.5	21.8	20.6	50	46	39-126	6	20	
1,1-Dichloroethene	ug/kg	ND	43.7	44.5	27.0	27.6	62	62	42-147	2	20	
1,1-Dichloropropene	ug/kg	ND	43.7	44.5	21.1	20.5	48	46	29-129	3	20	
1,2,3-Trichlorobenzene	ug/kg	ND	43.7	44.5	ND	ND	3	0	10-91		20	
1,2,3-Trichloropropane	ug/kg	ND	43.7	44.5	16.4	12.4	38	28	10-99	28	20	
1,2,4-Trichlorobenzene	ug/kg	ND	43.7	44.5	ND	ND	.6	0	10-88		20	
1,2,4-Trimethylbenzene	ug/kg	ND	43.7	44.5	6.8	4J	16	9	10-109		20	
1,2-Dibromoethane (EDB)	ug/kg	ND	43.7	44.5	15.2	11.3	35	25	10-119	29	20	
1,2-Dichlorobenzene	ug/kg	ND	43.7	44.5	3.3J	ND	8	2	10-104		20	
1,2-Dichloroethane	ug/kg	ND	43.7	44.5	23.5	21.7	54	49	19-126	8	20	
1,2-Dichloropropane	ug/kg	ND	43.7	44.5	20.5	17.9	47	40	24-123	14	20	
1,3,5-Trimethylbenzene	ug/kg	ND	43.7	44.5	9.0	6.4	21	14	10-118	34	20	
1,3-Dichlorobenzene	ug/kg	ND	43.7	44.5	2.9J	ND	7	1	10-108		20	
1,3-Dichloropropane	ug/kg	ND	43.7	44.5	15.2	11.5	35	26	12-121	27	20	
1,4-Dichlorobenzene	ug/kg	ND	43.7	44.5	2.9J	ND	7	1	10-104		20	
2,2-Dichloropropane	ug/kg	ND	43.7	44.5	22.5	24.0	52	54	32-124	6	20	
2-Butanone (MEK)	ug/kg	ND	218	223	139	135	64	60	10-183	3	20	
2-Chlorotoluene	ug/kg	ND	43.7	44.5	8.0	5.0	18	11	10-128	46	20	
2-Hexanone	ug/kg	ND	218	223	92.4	74.1J	42	33	10-158		20	
4-Chlorotoluene	ug/kg	ND	43.7	44.5	5.1	2.3J	12	5	10-119		20	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	218	223	106	97.0	49	44	12-130	9	20	
Acetone	ug/kg	ND	218	223	197	189	90	85	10-200	4	20	
Acrolein	ug/kg	ND	873	891	346	283	40	32	10-200	20	20	
Acrylonitrile	ug/kg	ND	873	891	517	521	59	58	19-130	.7	20	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5064038

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 749899 749900

Parameter	Units	5064038005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/kg	ND	43.7	44.5	21.0	19.1	48	43	23-138	10	20	
Bromobenzene	ug/kg	ND	43.7	44.5	6.6	3.5J	15	8	10-111		20	
Bromochloromethane	ug/kg	ND	43.7	44.5	21.2	20.2	49	45	26-126	5	20	
Bromodichloromethane	ug/kg	ND	43.7	44.5	18.1	16.0	41	36	10-120	12	20	
Bromoform	ug/kg	ND	43.7	44.5	ND	ND	0	0	10-106		20	
Bromomethane	ug/kg	ND	43.7	44.5	30.3	24.5	69	55	10-190	21	20	
Carbon disulfide	ug/kg	ND	87.3	89.1	44.4	46.5	51	52	31-128	5	20	
Carbon tetrachloride	ug/kg	ND	43.7	44.5	20.4	22.3	47	50	26-126	9	20	
Chlorobenzene	ug/kg	ND	43.7	44.5	10.3	6.3	23	14	10-120	48	20	
Chloroethane	ug/kg	ND	43.7	44.5	25.4	25.7	58	58	18-186	1	20	
Chloroform	ug/kg	ND	43.7	44.5	22.5	20.9	51	47	29-126	7	20	
Chloromethane	ug/kg	ND	43.7	44.5	24.4	24.7	56	55	34-131	.9	20	
cis-1,2-Dichloroethene	ug/kg	ND	43.7	44.5	21.4	20.3	49	45	28-132	5	20	
cis-1,3-Dichloropropene	ug/kg	ND	43.7	44.5	15.2	13.5	35	30	10-108	12	20	
Dibromochloromethane	ug/kg	ND	43.7	44.5	13.1	11.0	30	25	10-108	18	20	
Dibromomethane	ug/kg	ND	43.7	44.5	21.0	19.2	48	43	13-122	9	20	
Dichlorodifluoromethane	ug/kg	ND	43.7	44.5	19.8	22.2	45	50	10-197	11	20	
Ethyl methacrylate	ug/kg	ND	174	178	62.4J	49.4J	36	28	10-130		20	
Ethylbenzene	ug/kg	ND	43.7	44.5	12.0	8.6	27	19	10-135	33	20	
Hexachloro-1,3-butadiene	ug/kg	ND	43.7	44.5	4.7	4.4	11	10	10-105		20	
Iodomethane	ug/kg	ND	87.3	89.1	ND	ND	29	41	10-163		20	
Isopropylbenzene (Cumene)	ug/kg	ND	43.7	44.5	10.9	8.2	25	18	10-121	28	20	
Methyl-tert-butyl ether	ug/kg	ND	87.3	89.1	61.9	62.0	71	70	20-140	.2	20	
Methylene Chloride	ug/kg	ND	43.7	44.5	25.8	25.3	59	57	28-131	2	20	
n-Butylbenzene	ug/kg	ND	43.7	44.5	ND	ND	5	3	10-110		20	
n-Hexane	ug/kg	ND	43.7	44.5	15.1	16.6	35	37	21-150	9	20	N2
n-Propylbenzene	ug/kg	ND	43.7	44.5	7.8	5.5	18	12	10-123	35	20	
Naphthalene	ug/kg	ND	43.7	44.5	4.4	2.6J	10	6	10-106		20	
p-Isopropyltoluene	ug/kg	ND	43.7	44.5	6.1	4.4	14	10	10-117		20	
sec-Butylbenzene	ug/kg	ND	43.7	44.5	8.6	7.2	20	16	10-123	18	20	
Styrene	ug/kg	ND	43.7	44.5	7.3	3.6J	17	8	10-119		20	
tert-Butylbenzene	ug/kg	ND	43.7	44.5	14.0	11.7	32	26	10-105	18	20	
Tetrachloroethene	ug/kg	ND	43.7	44.5	14.4	12.2	33	27	10-122	17	20	
Toluene	ug/kg	ND	43.7	44.5	16.6	12.9	38	29	10-131	25	20	
trans-1,2-Dichloroethene	ug/kg	ND	43.7	44.5	22.4	22.5	51	50	32-136	.3	20	
trans-1,3-Dichloropropene	ug/kg	ND	43.7	44.5	12.7	10.4	29	23	10-101	20	20	
trans-1,4-Dichloro-2-butene	ug/kg	ND	174	178	ND	ND	15	11	10-104		20	
Trichloroethene	ug/kg	ND	43.7	44.5	19.7	17.1	45	38	15-133	14	20	
Trichlorofluoromethane	ug/kg	ND	43.7	44.5	28.8	30.6	66	69	37-152	6	20	
Vinyl acetate	ug/kg	ND	174	178	ND	ND	7	6	10-103		20	
Vinyl chloride	ug/kg	ND	43.7	44.5	25.1	26.8	57	60	41-147	7	20	
Xylene (Total)	ug/kg	ND	131	134	32.7	21.7	25	16	10-131	41	20	
4-Bromofluorobenzene (S)	%.						96	95	67-134		20	
Dibromofluoromethane (S)	%.						99	100	71-125		20	1d,2d
Toluene-d8 (S)	%.						99	99	76-124		20	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5064038

QC Batch: PMST/7135 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 5064038001, 5064038002, 5064038003, 5064038004, 5064038005, 5064038006

SAMPLE DUPLICATE: 749102

Parameter	Units	5064038005 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	13.9	13.5	3	5	

SAMPLE DUPLICATE: 749103

Parameter	Units	5064224003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	11.5	11.6	1	5	

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Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5064038

QC Batch: WETA/12755 — Analysis Method: Walkley Black
QC Batch Method: Walkley Black — Analysis Description: Organic Carbon
Associated Lab Samples: 5064038001, 5064038002, 5064038003, 5064038004, 5064038005, 5064038006

METHOD BLANK: 619896 — Matrix: Solid
Associated Lab Samples: 5064038001, 5064038002, 5064038003, 5064038004, 5064038005, 5064038006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/kg	ND	400	06/14/12 14:15	

LABORATORY CONTROL SAMPLE: 619897

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/kg	16000	16400	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 619898 — 619899

Parameter	Units	10194347001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/kg	28700	44400	44400	71500	70300	96	94	80-120	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 619906 — 619907

Parameter	Units	5064038005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/kg	9240	37000	37000	46100	46000	100	99	80-120	0	20	

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QUALIFIERS

Project: Michigan Plaza M01046
Pace Project No.: 5064038

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PRL - Pace Reporting Limit.
RL - Reporting Limit.
S - Surrogate
1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay
PASI-I	Pace Analytical Services - Indianapolis

BATCH QUALIFIERS

Batch: WETA/12785

[WB]	Results reported on dry weight basis per cited method.

ANALYTE QUALIFIERS

1d	Several compounds are outside of acceptance limits for percent recovery and/or RPD value. Refer to the LCS for system control. grm 6-15-12
2d	Several compounds are outside of acceptance limits for percent recovery. Refer to the LCS for system control. grm 6-15-12
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
N2	The lab does not hold TNI accreditation for this parameter.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Michigan Plaza M01046
Pace Project No.: 5064038

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5064038007	**Trip Blank**	EPA 8260	MSV/43003		
5064038001	**MMW-C-16D (18-20)**	EPA 8260	MSV/42994		
5064038002	**MMW-C-16D (36-38)**	EPA 8260	MSV/42994		
5064038003	**MMW-C-16D (40-42)**	EPA 8260	MSV/42994		
5064038004	**MMW-C-17D (18-20)**	EPA 8260	MSV/42994		
5064038005	**MMW-C-17D (38-38.8)**	EPA 8260	MSV/43002		
5064038006	**DUP 1**	EPA 8260	MSV/43002		
5064038001	**MMW-C-16D (18-20)**	ASTM D2974-87	PMST/7135		
5064038002	**MMW-C-16D (36-38)**	ASTM D2974-87	PMST/7135		
5064038003	**MMW-C-16D (40-42)**	ASTM D2974-87	PMST/7135		
5064038004	**MMW-C-17D (18-20)**	ASTM D2974-87	PMST/7135		
5064038005	**MMW-C-17D (38-38.8)**	ASTM D2974-87	PMST/7135		
5064038006	**DUP 1**	ASTM D2974-87	PMST/7135		
5064038001	**MMW-C-16D (18-20)**	Walkley Black	WETA/12755	Walkley Black	WETA/12785
5064038002	**MMW-C-16D (36-38)**	Walkley Black	WETA/12755	Walkley Black	WETA/12785
5064038003	**MMW-C-16D (40-42)**	Walkley Black	WETA/12755	Walkley Black	WETA/12785
5064038004	**MMW-C-17D (18-20)**	Walkley Black	WETA/12755	Walkley Black	WETA/12785
5064038005	**MMW-C-17D (38-38.8)**	Walkley Black	WETA/12755	Walkley Black	WETA/12785
5064038006	**DUP 1**	Walkley Black	WETA/12755	Walkley Black	WETA/12785

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:

Company: Mundell & Associates Inc
Address: 110 S. Downey Ave
Indpls IN 46219
Email To: mbreting@mundellassociates.com
Phone: 317 630-9060 Fax:
Requested Due Date/TAT: Standard

Section B Required Project Information:

Report To: Mark Breting
Copy To: John Mundell (jmundell@mundellassociates.com)
Purchase Order No.: M01046
Project Name: Michigan Plaza
Project Number: M01046

Section C Invoice Information:

Attention: MERLE TEBBE
Company Name: ← SAME
Address:
Pace Quote Reference:
Pace Project Manager: Tina Sayer
Pace Profile #:

Page: 1 of 1

1574739

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: IN

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other DI Water	Analysis Test (Y/N)	VOCs 8260	foc (Walkley-Black method)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MMW-C-16D (18-20')	S	G			6/4/12	10:46		5	2						1	2		X	X		5064038
2	MMW-C-16D (36-38')	S	G			6/5/12	08:50		5	2						1	2		X	X		001
3	MMW-C-16D (40-42')	S	G				09:00		5	2						1	2		X	X		002
4	MMW-C-17D (18-20')	S	G				15:07		5	2						1	2		X	X		003
5	MMW-C-17D (38-38.8')	S	G				16:39		15	6						3	6		X	X		004
6	DUP 1	S	G				00:00		5	2						1	2		X	X		MS/MSD 005
7	TRIP BLANK	W	G			6/4/12	09:00		3	~~2~~						1	2		X			006
8																						007
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Mark Breting / Mundell	6/6/12	16:05	Marcia Bennett / Pace	6/6/12	16:05	5.2°C	Y	N	

Client w/ice

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Breting
SIGNATURE of SAMPLER: Mark Breting
DATE Signed (MM/DD/YY): 6/5/12

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Sample Condition Upon Receipt

Pace Analytical

Client Name: Mundell & Assoc. Project # 50644038

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Date/Time 5035A kits placed in freezer 6/6/12 16:26

Thermometer Used 1 2 3 4 6 A B C D (E) Type of Ice: (Wet) Blue None ☑ Samples on ice, cooling process has begun

Cooler Temperature (Corrected, if applicable) 5.2°C Ice Visible in Sample Containers: ☐ yes ☑ no

Temp should be above freezing to 6°C

Date and Initials of person examining contents: MB 6/6/12

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	5. reg. terracore MB
Rush Turn Around Time Requested:	☐Yes ☐No ☑N/A	6.
Containers Intact:	☑Yes ☐No ☐N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	☑Yes ☐No ☐N/A	8.
All containers needing acid/base pres have been checked? exceptions: VOA, coliform, TOC, O&G	☐Yes ☐No ☑N/A	9. (Circle) HNO3 H2SO4 NaOH HCl
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
Headspace in VOA Vials (>6mm)	☐Yes ☐No ☑N/A	10.
Trip Blank Present:	☑Yes ☐No ☐N/A	11. terracore = trip blank MB
Trip Blank Custody Seals Present	☐Yes ☑No ☐N/A	
Project Manager Review		
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	12.
Sufficient Volume:	☑Yes ☐No ☐N/A	13.
Correct Containers Used:	☑Yes ☐No ☐N/A	14.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Mark Bruing Date/Time: 6/7/12 via voicemail

Comments/ Resolution: * MMW-C-16D (18-20) rec'd out of hold MB 6/6/12

- OK to run MMW-C-16D (18-20') out of hold.
- Need full list for Soils @ MT Plaza.

Project Manager Review: [signature] Date: 6.6.12

Sample Container Count

CLIENT: Mundell & Assoc.

COC PAGE 1 of 1
COC ID# 1574739

Project # 5064038

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Sample Line Item	DG9H	AG1U	WGFU	AG0U	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H			Comments
1			1		4											
2			1		4											
3			1		4											
4			1		4											
5			3		12											
6			1		4											
7					3											
8																
9																
10																
11																
12																

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

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July 11, 2012

Mr. Mark Breting
Mundell & Associates
110 S. Downey Ave.
Indianapolis, IN 46228

RE: Project: MI Plaza M01046
Pace Project No.: 5061995_Revised report. 8260 results added to -003 due to lab error. 7/11/12tms

Dear Mr. Breting:
Enclosed are the analytical results for sample(s) received by the laboratory on April 26, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Sayer

Tina Sayer

tina.sayer@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: MI Plaza M01046
Pace Project No.: 5061995

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana/NELAC Certification #: 04076
Ohio VAP: CL0065
Pennsylvania: 68-04991
West Virginia Certification #: 330

Ohio Certification IDs
1233 Dublin Road, Columbus, OH 43215
Indiana Drinking Water Certification #: C-OH-11
NVLAP Certification #: 90132
Ohio Microbiology Certification #: 943
Ohio Drinking Water Certification #: 1030

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SAMPLE SUMMARY

Project: MI Plaza M01046
Pace Project No.: 5061995

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5061995001	**MMW-9S**	Water	04/25/12 08:09	04/26/12 10:40
5061995002	**MMW-1S**	Water	04/25/12 09:23	04/26/12 10:40
5061995003	**MMW-8S**	Water	04/25/12 10:09	04/26/12 10:40
5061995004	**MMW-P-03S**	Water	04/25/12 10:51	04/26/12 10:40
5061995005	**MMW-P-03D**	Water	04/25/12 11:24	04/26/12 10:40
5061995006	**MMW-P-02**	Water	04/25/12 12:36	04/26/12 10:40
5061995007	**MMW-P-05**	Water	04/25/12 13:15	04/26/12 10:40
5061995008	**MMW-P-10S**	Water	04/25/12 13:54	04/26/12 10:40
5061995009	**MMW-P-10D**	Water	04/25/12 14:37	04/26/12 10:40
5061995010	**MMW-P-08**	Water	04/25/12 15:04	04/26/12 10:40
5061995011	**MMW-P-07**	Water	04/25/12 15:30	04/26/12 10:40
5061995012	**MMW-P-01**	Water	04/25/12 15:56	04/26/12 10:40
5061995013	**Dup 1**	Water	04/25/12 08:00	04/26/12 10:40
5061995014	**Trip Blank**	Water	04/25/12 08:00	04/26/12 10:40

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SAMPLE ANALYTE COUNT

Project: MI Plaza M01046
Pace Project No.: 5061995

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5061995001	**MMW-9S**	EPA 8260	KMP	18
		SM 5310C	GR1	1
		EPA 353.2	ILP	2
		ASTM D516-90,02	TPD	1
5061995002	**MMW-1S**	EPA 8260	KMP	18
		SM 5310C	GR1	1
		EPA 353.2	ILP	2
		ASTM D516-90,02	TPD	1
5061995003	**MMW-8S**	EPA 8260	KMP	18
		SM 5310C	GR1	1
		EPA 353.2	ILP	2
		ASTM D516-90,02	TPD	1
5061995004	**MMW-P-03S**	EPA 8260	KMP	18
		SM 5310C	GR1	1
		EPA 353.2	ILP	2
		ASTM D516-90,02	TPD	1
5061995005	**MMW-P-03D**	EPA 8260	KMP	18
		SM 5310C	GR1	1
		EPA 353.2	ILP	2
		ASTM D516-90,02	TPD	1
5061995006	**MMW-P-02**	EPA 8260	KMP	18
		SM 5310C	GR1	1
		EPA 353.2	ILP	2
		ASTM D516-90,02	TPD	1
5061995007	**MMW-P-05**	EPA 8260	KMP	18
		SM 5310C	GR1	1
		EPA 353.2	ILP	2
		ASTM D516-90,02	TPD	1
5061995008	**MMW-P-10S**	EPA 8260	KMP	18
		SM 5310C	GR1	1
		EPA 353.2	ILP	2
		ASTM D516-90,02	TPD	1
5061995009	**MMW-P-10D**	EPA 8260	KMP	18
		SM 5310C	GR1	1
		EPA 353.2	ILP	2
		ASTM D516-90,02	TPD	1
5061995010	**MMW-P-08**	EPA 8260	KMP	18

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SAMPLE ANALYTE COUNT

Project: MI Plaza M01046
Pace Project No.: 5061995

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 5310C	GR1	1
		EPA 353.2	ILP	2
		ASTM D516-90,02	TPD	1
5061995011	**MMW-P-07**	EPA 8260	KMP	18
		SM 5310C	GR1	1
		EPA 353.2	ILP	2
		ASTM D516-90,02	TPD	1
5061995012	**MMW-P-01**	EPA 8260	KMP	18
		SM 5310C	GR1	1
		EPA 353.2	ILP	2
		ASTM D516-90,02	TPD	1
5061995013	**Dup 1**	EPA 8260	KMP	18
		SM 5310C	GR1	1
		EPA 353.2	ILP	2
		ASTM D516-90,02	TPD	1
5061995014	**Trip Blank**	EPA 8260	KMP	18

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5061995

Sample: MMW-9S **Lab ID: 5061995001** Collected: 04/25/12 08:09 Received: 04/26/12 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		05/02/12 14:31	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		05/02/12 14:31	56-23-5	
Chloroform	ND	ug/L	5.0	1		05/02/12 14:31	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/02/12 14:31	75-35-4	
cis-1,2-Dichloroethene	**1180**	ug/L	50.0	10		05/02/12 15:03	156-59-2	
trans-1,2-Dichloroethene	**30.1**	ug/L	5.0	1		05/02/12 14:31	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		05/02/12 14:31	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		05/02/12 14:31	75-09-2	
Naphthalene	ND	ug/L	5.0	1		05/02/12 14:31	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		05/02/12 14:31	127-18-4	
Toluene	ND	ug/L	5.0	1		05/02/12 14:31	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/02/12 14:31	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		05/02/12 14:31	79-01-6	
Vinyl chloride	**753**	ug/L	20.0	10		05/02/12 15:03	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/02/12 14:31	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	109	%.	83-123	1		05/02/12 14:31	1868-53-7	
4-Bromofluorobenzene (S)	106	%.	72-125	1		05/02/12 14:31	460-00-4	
Toluene-d8 (S)	99	%.	81-114	1		05/02/12 14:31	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**3.8**	mg/L	0.30	1		04/27/12 19:01	7440-44-0	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		04/26/12 14:38		
Nitrogen, Nitrite	ND	mg/L	0.10	1		04/26/12 14:38		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**176**	mg/L	50.0	1		04/27/12 11:00	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5061995

Sample: MMW-1S **Lab ID: 5061995002** Collected: 04/25/12 09:23 Received: 04/26/12 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		05/02/12 16:42	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		05/02/12 16:42	56-23-5	
Chloroform	ND	ug/L	5.0	1		05/02/12 16:42	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/02/12 16:42	75-35-4	
cis-1,2-Dichloroethene	**34.2**	ug/L	5.0	1		05/02/12 16:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/02/12 16:42	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		05/02/12 16:42	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		05/02/12 16:42	75-09-2	
Naphthalene	ND	ug/L	5.0	1		05/02/12 16:42	91-20-3	
Tetrachloroethene	**270**	ug/L	25.0	5		05/08/12 17:39	127-18-4	HS
Toluene	ND	ug/L	5.0	1		05/02/12 16:42	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/02/12 16:42	71-55-6	
Trichloroethene	**11.2**	ug/L	5.0	1		05/02/12 16:42	79-01-6	
Vinyl chloride	**39.0**	ug/L	2.0	1		05/02/12 16:42	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/02/12 16:42	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	109	%.	83-123	1		05/02/12 16:42	1868-53-7	
4-Bromofluorobenzene (S)	101	%.	72-125	1		05/02/12 16:42	460-00-4	
Toluene-d8 (S)	97	%.	81-114	1		05/02/12 16:42	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2.6**	mg/L	0.30	1		04/27/12 20:54	7440-44-0	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**19.9**	mg/L	0.40	4		04/26/12 15:20		
Nitrogen, Nitrite	ND	mg/L	0.40	4		04/26/12 15:20		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**51.0**	mg/L	25.0	1		04/27/12 11:00	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5061995

Sample: MMW-8S **Lab ID: 5061995003** Collected: 04/25/12 10:09 Received: 04/26/12 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		05/02/12 17:15	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		05/02/12 17:15	56-23-5	
Chloroform	ND	ug/L	5.0	1		05/02/12 17:15	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/02/12 17:15	75-35-4	
cis-1,2-Dichloroethene	**15.6**	ug/L	5.0	1		05/02/12 17:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/02/12 17:15	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		05/02/12 17:15	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		05/02/12 17:15	75-09-2	
Naphthalene	ND	ug/L	5.0	1		05/02/12 17:15	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		05/02/12 17:15	127-18-4	
Toluene	ND	ug/L	5.0	1		05/02/12 17:15	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/02/12 17:15	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		05/02/12 17:15	79-01-6	
Vinyl chloride	**90.6**	ug/L	2.0	1		05/02/12 17:15	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/02/12 17:15	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%.	83-123	1		05/02/12 17:15	1868-53-7	
4-Bromofluorobenzene (S)	106	%.	72-125	1		05/02/12 17:15	460-00-4	
Toluene-d8 (S)	98	%.	81-114	1		05/02/12 17:15	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.6**	mg/L	0.30	1		04/27/12 21:25	7440-44-0	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		04/26/12 14:43		
Nitrogen, Nitrite	ND	mg/L	0.10	1		04/26/12 14:43		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**152**	mg/L	25.0	1		04/27/12 11:00	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5061995

Sample: MMW-P-03S **Lab ID: 5061995004** Collected: 04/25/12 10:51 Received: 04/26/12 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		05/02/12 17:48	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		05/02/12 17:48	56-23-5	
Chloroform	ND	ug/L	5.0	1		05/02/12 17:48	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/02/12 17:48	75-35-4	
cis-1,2-Dichloroethene	**18.4**	ug/L	5.0	1		05/02/12 17:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/02/12 17:48	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		05/02/12 17:48	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		05/02/12 17:48	75-09-2	
Naphthalene	ND	ug/L	5.0	1		05/02/12 17:48	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		05/02/12 17:48	127-18-4	
Toluene	ND	ug/L	5.0	1		05/02/12 17:48	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/02/12 17:48	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		05/02/12 17:48	79-01-6	
Vinyl chloride	**257**	ug/L	2.0	1		05/02/12 17:48	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/02/12 17:48	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%.	83-123	1		05/02/12 17:48	1868-53-7	
4-Bromofluorobenzene (S)	104	%.	72-125	1		05/02/12 17:48	460-00-4	
Toluene-d8 (S)	97	%.	81-114	1		05/02/12 17:48	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2.4**	mg/L	0.30	1		04/27/12 21:48	7440-44-0	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		04/26/12 14:44		
Nitrogen, Nitrite	ND	mg/L	0.10	1		04/26/12 14:44		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**46.8**	mg/L	25.0	1		04/27/12 11:00	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5061995

Sample: MMW-P-03D **Lab ID: 5061995005** Collected: 04/25/12 11:24 Received: 04/26/12 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		05/02/12 19:59	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		05/02/12 19:59	56-23-5	
Chloroform	ND	ug/L	5.0	1		05/02/12 19:59	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/02/12 19:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/02/12 19:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/02/12 19:59	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		05/02/12 19:59	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		05/02/12 19:59	75-09-2	
Naphthalene	ND	ug/L	5.0	1		05/02/12 19:59	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		05/02/12 19:59	127-18-4	
Toluene	ND	ug/L	5.0	1		05/02/12 19:59	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/02/12 19:59	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		05/02/12 19:59	79-01-6	
Vinyl chloride	**16.6**	ug/L	2.0	1		05/02/12 19:59	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/02/12 19:59	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	107	%.	83-123	1		05/02/12 19:59	1868-53-7	
4-Bromofluorobenzene (S)	103	%.	72-125	1		05/02/12 19:59	460-00-4	
Toluene-d8 (S)	98	%.	81-114	1		05/02/12 19:59	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**25.0**	mg/L	0.30	1		04/27/12 22:13	7440-44-0	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		04/26/12 14:49		
Nitrogen, Nitrite	ND	mg/L	0.10	1		04/26/12 14:49		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	ND	mg/L	5.0	1		04/27/12 11:00	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5061995

Sample: MMW-P-02 **Lab ID: 5061995006** Collected: 04/25/12 12:36 Received: 04/26/12 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		05/03/12 23:16	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		05/03/12 23:16	56-23-5	
Chloroform	ND	ug/L	5.0	1		05/03/12 23:16	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/03/12 23:16	75-35-4	
cis-1,2-Dichloroethene	**53.4**	ug/L	5.0	1		05/03/12 23:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/03/12 23:16	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		05/03/12 23:16	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		05/03/12 23:16	75-09-2	
Naphthalene	ND	ug/L	5.0	1		05/03/12 23:16	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		05/03/12 23:16	127-18-4	
Toluene	ND	ug/L	5.0	1		05/03/12 23:16	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/03/12 23:16	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		05/03/12 23:16	79-01-6	
Vinyl chloride	**274**	ug/L	20.0	10		05/09/12 15:23	75-01-4	HS
Xylene (Total)	ND	ug/L	10.0	1		05/03/12 23:16	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%.	83-123	1		05/03/12 23:16	1868-53-7	
4-Bromofluorobenzene (S)	94	%.	72-125	1		05/03/12 23:16	460-00-4	
Toluene-d8 (S)	100	%.	81-114	1		05/03/12 23:16	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2.1**	mg/L	0.30	1		04/27/12 22:46	7440-44-0	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		04/26/12 14:52		
Nitrogen, Nitrite	ND	mg/L	0.10	1		04/26/12 14:52		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**105**	mg/L	25.0	1		04/27/12 11:00	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5061995

Sample: MMW-P-05 **Lab ID: 5061995007** Collected: 04/25/12 13:15 Received: 04/26/12 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		05/02/12 21:05	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		05/02/12 21:05	56-23-5	
Chloroform	ND	ug/L	5.0	1		05/02/12 21:05	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/02/12 21:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/02/12 21:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/02/12 21:05	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		05/02/12 21:05	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		05/02/12 21:05	75-09-2	
Naphthalene	ND	ug/L	5.0	1		05/02/12 21:05	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		05/02/12 21:05	127-18-4	
Toluene	ND	ug/L	5.0	1		05/02/12 21:05	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/02/12 21:05	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		05/02/12 21:05	79-01-6	
Vinyl chloride	**80.9**	ug/L	2.0	1		05/02/12 21:05	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/02/12 21:05	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	112	%.	83-123	1		05/02/12 21:05	1868-53-7	
4-Bromofluorobenzene (S)	105	%.	72-125	1		05/02/12 21:05	460-00-4	
Toluene-d8 (S)	96	%.	81-114	1		05/02/12 21:05	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**3.8**	mg/L	0.30	1		04/27/12 23:19	7440-44-0	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		04/26/12 14:54		
Nitrogen, Nitrite	ND	mg/L	0.10	1		04/26/12 14:54		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**46.0**	mg/L	12.5	1		04/27/12 11:00	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5061995

Sample: MMW-P-10S **Lab ID: 5061995008** Collected: 04/25/12 13:54 Received: 04/26/12 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		05/08/12 18:12	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		05/08/12 18:12	56-23-5	
Chloroform	ND	ug/L	5.0	1		05/08/12 18:12	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/08/12 18:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/08/12 18:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/08/12 18:12	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		05/08/12 18:12	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		05/08/12 18:12	75-09-2	
Naphthalene	ND	ug/L	5.0	1		05/08/12 18:12	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		05/08/12 18:12	127-18-4	
Toluene	ND	ug/L	5.0	1		05/08/12 18:12	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/08/12 18:12	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		05/08/12 18:12	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		05/08/12 18:12	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/08/12 18:12	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	83-123	1		05/08/12 18:12	1868-53-7	
4-Bromofluorobenzene (S)	99	%.	72-125	1		05/08/12 18:12	460-00-4	
Toluene-d8 (S)	101	%.	81-114	1		05/08/12 18:12	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.9**	mg/L	0.30	1		04/27/12 23:50	7440-44-0	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		04/26/12 14:55		
Nitrogen, Nitrite	ND	mg/L	0.10	1		04/26/12 14:55		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**15.4**	mg/L	5.0	1		04/27/12 11:00	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5061995

Sample: MMW-P-10D **Lab ID: 5061995009** Collected: 04/25/12 14:37 Received: 04/26/12 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		05/03/12 19:26	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		05/03/12 19:26	56-23-5	
Chloroform	ND	ug/L	5.0	1		05/03/12 19:26	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/03/12 19:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/03/12 19:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/03/12 19:26	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		05/03/12 19:26	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		05/03/12 19:26	75-09-2	
Naphthalene	ND	ug/L	5.0	1		05/03/12 19:26	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		05/03/12 19:26	127-18-4	
Toluene	ND	ug/L	5.0	1		05/03/12 19:26	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/03/12 19:26	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		05/03/12 19:26	79-01-6	
Vinyl chloride	**289**	ug/L	20.0	10		05/08/12 18:44	75-01-4	HS
Xylene (Total)	ND	ug/L	10.0	1		05/03/12 19:26	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%.	83-123	1		05/03/12 19:26	1868-53-7	
4-Bromofluorobenzene (S)	96	%.	72-125	1		05/03/12 19:26	460-00-4	
Toluene-d8 (S)	98	%.	81-114	1		05/03/12 19:26	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2.5**	mg/L	0.30	1		04/28/12 00:22	7440-44-0	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		04/26/12 14:56		
Nitrogen, Nitrite	ND	mg/L	0.10	1		04/26/12 14:56		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**76.5**	mg/L	25.0	1		04/27/12 11:00	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5061995

Sample: MMW-P-08 **Lab ID: 5061995010** Collected: 04/25/12 15:04 Received: 04/26/12 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		05/03/12 20:32	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		05/03/12 20:32	56-23-5	
Chloroform	ND	ug/L	5.0	1		05/03/12 20:32	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/03/12 20:32	75-35-4	
cis-1,2-Dichloroethene	**5.0**	ug/L	5.0	1		05/03/12 20:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/03/12 20:32	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		05/03/12 20:32	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		05/03/12 20:32	75-09-2	
Naphthalene	ND	ug/L	5.0	1		05/03/12 20:32	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		05/03/12 20:32	127-18-4	
Toluene	ND	ug/L	5.0	1		05/03/12 20:32	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/03/12 20:32	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		05/03/12 20:32	79-01-6	
Vinyl chloride	**85.2**	ug/L	2.0	1		05/03/12 20:32	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/03/12 20:32	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%.	83-123	1		05/03/12 20:32	1868-53-7	
4-Bromofluorobenzene (S)	96	%.	72-125	1		05/03/12 20:32	460-00-4	
Toluene-d8 (S)	99	%.	81-114	1		05/03/12 20:32	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**4.6**	mg/L	0.30	1		04/28/12 00:55	7440-44-0	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		04/26/12 14:57		
Nitrogen, Nitrite	ND	mg/L	0.10	1		04/26/12 14:57		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**87.0**	mg/L	25.0	1		04/27/12 11:00	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5061995

Sample: MMW-P-07 **Lab ID: 5061995011** Collected: 04/25/12 15:30 Received: 04/26/12 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		05/03/12 21:05	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		05/03/12 21:05	56-23-5	
Chloroform	ND	ug/L	5.0	1		05/03/12 21:05	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/03/12 21:05	75-35-4	
cis-1,2-Dichloroethene	**11.6**	ug/L	5.0	1		05/03/12 21:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/03/12 21:05	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		05/03/12 21:05	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		05/03/12 21:05	75-09-2	
Naphthalene	ND	ug/L	5.0	1		05/03/12 21:05	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		05/03/12 21:05	127-18-4	
Toluene	ND	ug/L	5.0	1		05/03/12 21:05	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/03/12 21:05	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		05/03/12 21:05	79-01-6	
Vinyl chloride	**266**	ug/L	20.0	10		05/08/12 19:17	75-01-4	HS
Xylene (Total)	ND	ug/L	10.0	1		05/03/12 21:05	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	107	%.	83-123	1		05/03/12 21:05	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	72-125	1		05/03/12 21:05	460-00-4	
Toluene-d8 (S)	99	%.	81-114	1		05/03/12 21:05	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**3.3**	mg/L	0.30	1		04/28/12 01:20	7440-44-0	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		04/26/12 14:58		
Nitrogen, Nitrite	ND	mg/L	0.10	1		04/26/12 14:58		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**73.5**	mg/L	12.5	1		04/27/12 11:00	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5061995

Sample: MMW-P-01 **Lab ID: 5061995012** Collected: 04/25/12 15:56 Received: 04/26/12 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		05/03/12 21:37	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		05/03/12 21:37	56-23-5	
Chloroform	ND	ug/L	5.0	1		05/03/12 21:37	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/03/12 21:37	75-35-4	
cis-1,2-Dichloroethene	**459**	ug/L	100	20		05/03/12 22:10	156-59-2	
trans-1,2-Dichloroethene	**8.1**	ug/L	5.0	1		05/03/12 21:37	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		05/03/12 21:37	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		05/03/12 21:37	75-09-2	
Naphthalene	ND	ug/L	5.0	1		05/03/12 21:37	91-20-3	
Tetrachloroethene	**21.8**	ug/L	5.0	1		05/03/12 21:37	127-18-4	
Toluene	ND	ug/L	5.0	1		05/03/12 21:37	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/03/12 21:37	71-55-6	
Trichloroethene	**11.0**	ug/L	5.0	1		05/03/12 21:37	79-01-6	
Vinyl chloride	**1720**	ug/L	40.0	20		05/03/12 22:10	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/03/12 21:37	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%.	83-123	1		05/03/12 21:37	1868-53-7	
4-Bromofluorobenzene (S)	95	%.	72-125	1		05/03/12 21:37	460-00-4	
Toluene-d8 (S)	99	%.	81-114	1		05/03/12 21:37	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**3.3**	mg/L	0.30	1		04/28/12 02:38	7440-44-0	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		04/26/12 14:59		
Nitrogen, Nitrite	ND	mg/L	0.10	1		04/26/12 14:59		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**80.0**	mg/L	25.0	1		04/27/12 11:00	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5061995

Sample: Dup 1 **Lab ID: 5061995013** Collected: 04/25/12 08:00 Received: 04/26/12 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		05/08/12 19:50	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		05/08/12 19:50	56-23-5	
Chloroform	ND	ug/L	5.0	1		05/08/12 19:50	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/08/12 19:50	75-35-4	
cis-1,2-Dichloroethene	**21.5**	ug/L	5.0	1		05/08/12 19:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/08/12 19:50	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		05/08/12 19:50	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		05/08/12 19:50	75-09-2	
Naphthalene	ND	ug/L	5.0	1		05/08/12 19:50	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		05/08/12 19:50	127-18-4	
Toluene	ND	ug/L	5.0	1		05/08/12 19:50	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/08/12 19:50	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		05/08/12 19:50	79-01-6	
Vinyl chloride	**139**	ug/L	20.0	10		05/09/12 12:07	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/08/12 19:50	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	83-123	1		05/08/12 19:50	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	72-125	1		05/08/12 19:50	460-00-4	
Toluene-d8 (S)	101	%.	81-114	1		05/08/12 19:50	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2.5**	mg/L	0.30	1		04/28/12 03:02	7440-44-0	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		04/26/12 14:37		
Nitrogen, Nitrite	ND	mg/L	0.10	1		04/26/12 14:37		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**36.5**	mg/L	12.5	1		04/27/12 11:00	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5061995

Sample: Trip Blank **Lab ID: 5061995014** Collected: 04/25/12 08:00 Received: 04/26/12 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		05/03/12 22:43	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		05/03/12 22:43	56-23-5	
Chloroform	ND	ug/L	5.0	1		05/03/12 22:43	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/03/12 22:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/03/12 22:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/03/12 22:43	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		05/03/12 22:43	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		05/03/12 22:43	75-09-2	
Naphthalene	ND	ug/L	5.0	1		05/03/12 22:43	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		05/03/12 22:43	127-18-4	
Toluene	ND	ug/L	5.0	1		05/03/12 22:43	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/03/12 22:43	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		05/03/12 22:43	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		05/03/12 22:43	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/03/12 22:43	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	107	%.	83-123	1		05/03/12 22:43	1868-53-7	
4-Bromofluorobenzene (S)	94	%.	72-125	1		05/03/12 22:43	460-00-4	
Toluene-d8 (S)	99	%.	81-114	1		05/03/12 22:43	2037-26-5	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5061995

QC Batch: MSV/41768 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5061995001, 5061995002, 5061995003, 5061995004, 5061995005, 5061995007

METHOD BLANK: 728423 Matrix: Water
Associated Lab Samples: 5061995001, 5061995002, 5061995003, 5061995004, 5061995005, 5061995007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	05/02/12 12:22	
1,1-Dichloroethene	ug/L	ND	5.0	05/02/12 12:22	
Benzene	ug/L	ND	5.0	05/02/12 12:22	
Carbon tetrachloride	ug/L	ND	5.0	05/02/12 12:22	
Chloroform	ug/L	ND	5.0	05/02/12 12:22	
cis-1,2-Dichloroethene	ug/L	ND	5.0	05/02/12 12:22	
Ethylbenzene	ug/L	ND	5.0	05/02/12 12:22	
Methylene Chloride	ug/L	ND	5.0	05/02/12 12:22	
Naphthalene	ug/L	ND	5.0	05/02/12 12:22	
Tetrachloroethene	ug/L	ND	5.0	05/02/12 12:22	
Toluene	ug/L	ND	5.0	05/02/12 12:22	
trans-1,2-Dichloroethene	ug/L	ND	5.0	05/02/12 12:22	
Trichloroethene	ug/L	ND	5.0	05/02/12 12:22	
Vinyl chloride	ug/L	ND	2.0	05/02/12 12:22	
Xylene (Total)	ug/L	ND	10.0	05/02/12 12:22	
4-Bromofluorobenzene (S)	%.	103	72-125	05/02/12 12:22	
Dibromofluoromethane (S)	%.	100	83-123	05/02/12 12:22	
Toluene-d8 (S)	%.	98	81-114	05/02/12 12:22	

LABORATORY CONTROL SAMPLE: 728424

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	49.4	99	69-126	
1,1-Dichloroethene	ug/L	50	46.6	93	75-145	
Benzene	ug/L	50	54.2	108	76-123	
Carbon tetrachloride	ug/L	50	45.0	90	65-125	
Chloroform	ug/L	50	56.7	113	73-122	
cis-1,2-Dichloroethene	ug/L	50	48.3	97	79-129	
Ethylbenzene	ug/L	50	52.2	104	75-120	
Methylene Chloride	ug/L	50	50.5	101	61-138	
Naphthalene	ug/L	50	54.9	110	62-130	
Tetrachloroethene	ug/L	50	47.5	95	57-125	
Toluene	ug/L	50	51.5	103	72-124	
trans-1,2-Dichloroethene	ug/L	50	46.7	93	71-145	
Trichloroethene	ug/L	50	52.5	105	77-122	
Vinyl chloride	ug/L	50	51.3	103	61-146	
Xylene (Total)	ug/L	150	154	102	72-126	
4-Bromofluorobenzene (S)	%.			108	72-125	
Dibromofluoromethane (S)	%.			105	83-123	
Toluene-d8 (S)	%.			98	81-114	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5061995

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 728425 728426

Parameter	Units	5061995001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	50	50	22.4	22.4	45	45	37-136	.03	20	
1,1-Dichloroethene	ug/L	ND	50	50	28.5	26.0	56	51	54-152	9	20	M0
Benzene	ug/L	ND	50	50	28.8	27.5	58	55	52-134	5	20	
Carbon tetrachloride	ug/L	ND	50	50	19.0	20.3	38	41	26-136	7	20	
Chloroform	ug/L	ND	50	50	29.9	28.2	60	56	50-134	6	20	
cis-1,2-Dichloroethene	ug/L	1180	50	50	1210	1260	61	154	48-145	4	20	
Ethylbenzene	ug/L	ND	50	50	28.0	25.0	56	50	29-132	11	20	
Methylene Chloride	ug/L	ND	50	50	26.8	27.2	54	54	47-141	1	20	
Naphthalene	ug/L	ND	50	50	39.9	39.0	80	78	40-124	2	20	
Tetrachloroethene	ug/L	ND	50	50	27.9	25.9	51	47	30-124	7	20	
Toluene	ug/L	ND	50	50	27.4	25.8	55	52	42-130	6	20	
trans-1,2-Dichloroethene	ug/L	30.1	50	50	60.0	61.7	60	63	48-144	3	20	
Trichloroethene	ug/L	ND	50	50	29.2	28.2	54	52	44-130	4	20	
Vinyl chloride	ug/L	753	50	50	749	778	-8	50	45-159	4	20	M0
Xylene (Total)	ug/L	ND	150	150	79.7	76.0	53	51	29-131	5	20	
4-Bromofluorobenzene (S)	%.						108	108	72-125		20	
Dibromofluoromethane (S)	%.						107	109	83-123		20	
Toluene-d8 (S)	%.						100	98	81-114		20	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5061995

QC Batch: MSV/41777 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5061995006, 5061995009, 5061995010, 5061995011, 5061995012, 5061995014

METHOD BLANK: 728603 Matrix: Water
Associated Lab Samples: 5061995006, 5061995009, 5061995010, 5061995011, 5061995012, 5061995014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	05/03/12 13:36	
1,1-Dichloroethene	ug/L	ND	5.0	05/03/12 13:36	
Benzene	ug/L	ND	5.0	05/03/12 13:36	
Carbon tetrachloride	ug/L	ND	5.0	05/03/12 13:36	
Chloroform	ug/L	ND	5.0	05/03/12 13:36	
cis-1,2-Dichloroethene	ug/L	ND	5.0	05/03/12 13:36	
Ethylbenzene	ug/L	ND	5.0	05/03/12 13:36	
Methylene Chloride	ug/L	ND	5.0	05/03/12 13:36	
Naphthalene	ug/L	ND	5.0	05/03/12 13:36	
Tetrachloroethene	ug/L	ND	5.0	05/03/12 13:36	
Toluene	ug/L	ND	5.0	05/03/12 13:36	
trans-1,2-Dichloroethene	ug/L	ND	5.0	05/03/12 13:36	
Trichloroethene	ug/L	ND	5.0	05/03/12 13:36	
Vinyl chloride	ug/L	ND	2.0	05/03/12 13:36	
Xylene (Total)	ug/L	ND	10.0	05/03/12 13:36	
4-Bromofluorobenzene (S)	%.	102	72-125	05/03/12 13:36	
Dibromofluoromethane (S)	%.	108	83-123	05/03/12 13:36	
Toluene-d8 (S)	%.	98	81-114	05/03/12 13:36	

LABORATORY CONTROL SAMPLE: 728604

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	46.8	94	69-126	
1,1-Dichloroethene	ug/L	50	46.8	94	75-145	
Benzene	ug/L	50	50.6	101	76-123	
Carbon tetrachloride	ug/L	50	39.0	78	65-125	
Chloroform	ug/L	50	48.8	98	73-122	
cis-1,2-Dichloroethene	ug/L	50	44.5	89	79-129	
Ethylbenzene	ug/L	50	47.8	96	75-120	
Methylene Chloride	ug/L	50	44.6	89	61-138	
Naphthalene	ug/L	50	44.6	89	62-130	
Tetrachloroethene	ug/L	50	47.4	95	57-125	
Toluene	ug/L	50	47.7	95	72-124	
trans-1,2-Dichloroethene	ug/L	50	44.3	89	71-145	
Trichloroethene	ug/L	50	52.2	104	77-122	
Vinyl chloride	ug/L	50	49.5	99	61-146	
Xylene (Total)	ug/L	150	138	92	72-126	
4-Bromofluorobenzene (S)	%.			105	72-125	
Dibromofluoromethane (S)	%.			98	83-123	
Toluene-d8 (S)	%.			99	81-114	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5061995

QC Batch: MSV/41976 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5061995008, 5061995013

METHOD BLANK: 731394 Matrix: Water
Associated Lab Samples: 5061995008, 5061995013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	05/08/12 11:10	
1,1-Dichloroethene	ug/L	ND	5.0	05/08/12 11:10	
Benzene	ug/L	ND	5.0	05/08/12 11:10	
Carbon tetrachloride	ug/L	ND	5.0	05/08/12 11:10	
Chloroform	ug/L	ND	5.0	05/08/12 11:10	
cis-1,2-Dichloroethene	ug/L	ND	5.0	05/08/12 11:10	
Ethylbenzene	ug/L	ND	5.0	05/08/12 11:10	
Methylene Chloride	ug/L	ND	5.0	05/08/12 11:10	
Naphthalene	ug/L	ND	5.0	05/08/12 11:10	
Tetrachloroethene	ug/L	ND	5.0	05/08/12 11:10	
Toluene	ug/L	ND	5.0	05/08/12 11:10	
trans-1,2-Dichloroethene	ug/L	ND	5.0	05/08/12 11:10	
Trichloroethene	ug/L	ND	5.0	05/08/12 11:10	
Vinyl chloride	ug/L	ND	2.0	05/08/12 11:10	
Xylene (Total)	ug/L	ND	10.0	05/08/12 11:10	
4-Bromofluorobenzene (S)	%.	100	72-125	05/08/12 11:10	
Dibromofluoromethane (S)	%.	94	83-123	05/08/12 11:10	
Toluene-d8 (S)	%.	99	81-114	05/08/12 11:10	

LABORATORY CONTROL SAMPLE: 731395

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	42.2	84	69-126	
1,1-Dichloroethene	ug/L	50	45.1	90	75-145	
Benzene	ug/L	50	44.2	88	76-123	
Carbon tetrachloride	ug/L	50	40.0	80	65-125	
Chloroform	ug/L	50	45.7	91	73-122	
cis-1,2-Dichloroethene	ug/L	50	41.6	83	79-129	
Ethylbenzene	ug/L	50	44.1	88	75-120	
Methylene Chloride	ug/L	50	39.9	80	61-138	
Naphthalene	ug/L	50	40.7	81	62-130	
Tetrachloroethene	ug/L	50	45.7	91	57-125	
Toluene	ug/L	50	43.5	87	72-124	
trans-1,2-Dichloroethene	ug/L	50	42.5	85	71-145	
Trichloroethene	ug/L	50	44.5	89	77-122	
Vinyl chloride	ug/L	50	44.3	89	61-146	
Xylene (Total)	ug/L	150	134	89	72-126	
4-Bromofluorobenzene (S)	%.			102	72-125	
Dibromofluoromethane (S)	%.			102	83-123	
Toluene-d8 (S)	%.			98	81-114	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5061995

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 729948 729949

Parameter	Units	5062075005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	50	50	32.4	39.1	65	78	37-136	19	20	
1,1-Dichloroethene	ug/L	ND	50	50	42.6	47.6	85	95	54-152	11	20	
Benzene	ug/L	ND	50	50	38.3	43.6	77	87	52-134	13	20	
Carbon tetrachloride	ug/L	ND	50	50	28.9	35.9	58	72	26-136	22	20	
Chloroform	ug/L	ND	50	50	38.9	44.3	78	89	50-134	13	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	34.9	39.8	70	80	48-145	13	20	
Ethylbenzene	ug/L	ND	50	50	37.3	43.1	75	86	29-132	14	20	
Methylene Chloride	ug/L	ND	50	50	35.1	39.0	70	78	47-141	11	20	
Naphthalene	ug/L	ND	50	50	32.4	38.8	65	78	40-124	18	20	
Tetrachloroethene	ug/L	ND	50	50	39.0	45.0	78	90	30-124	14	20	
Toluene	ug/L	ND	50	50	36.8	42.5	74	85	42-130	14	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	37.2	42.9	74	86	48-144	14	20	
Trichloroethene	ug/L	ND	50	50	37.9	44.2	76	88	44-130	15	20	
Vinyl chloride	ug/L	ND	50	50	43.8	49.4	88	99	45-159	12	20	
Xylene (Total)	ug/L	ND	150	150	112	130	75	87	29-131	15	20	
4-Bromofluorobenzene (S)	%.						101	102	72-125		20	
Dibromofluoromethane (S)	%.						101	99	83-123		20	
Toluene-d8 (S)	%.						99	99	81-114		20	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5061995

QC Batch: OHIO/2415 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C TOC
Associated Lab Samples: 5061995001, 5061995002, 5061995003, 5061995004, 5061995005, 5061995006, 5061995007, 5061995008, 5061995009, 5061995010, 5061995011, 5061995012, 5061995013

METHOD BLANK: 726813 Matrix: Water
Associated Lab Samples: 5061995001, 5061995002, 5061995003, 5061995004, 5061995005, 5061995006, 5061995007, 5061995008, 5061995009, 5061995010, 5061995011, 5061995012, 5061995013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	0.30	04/27/12 18:13	N2

LABORATORY CONTROL SAMPLE: 726814

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	4.5	91	80-120	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 726816 726817

Parameter	Units	5061995001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	3.8	4	4	7.6	7.5	95	92	75-125	2	20	N2

SAMPLE DUPLICATE: 726815

Parameter	Units	5061995001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	3.8	3.7	4	20	N2

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5061995

QC Batch: WETA/7918 — Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 — Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 5061995001, 5061995002, 5061995003, 5061995004, 5061995005, 5061995006, 5061995007, 5061995008, 5061995009, 5061995010, 5061995011, 5061995012, 5061995013

METHOD BLANK: 726107 — Matrix: Water
Associated Lab Samples: 5061995001, 5061995002, 5061995003, 5061995004, 5061995005, 5061995006, 5061995007, 5061995008, 5061995009, 5061995010, 5061995011, 5061995012, 5061995013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	04/26/12 14:35	
Nitrogen, Nitrite	mg/L	ND	0.10	04/26/12 14:35	

LABORATORY CONTROL SAMPLE: 726108

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2	2.1	105	90-110	
Nitrogen, Nitrite	mg/L	2	2.1	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 726109 726110

Parameter	Units	5061995001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	ND	2	2	1.8	1.9	90	91	90-110	1	20	
Nitrogen, Nitrite	mg/L	ND	2	2	1.9	1.9	96	96	90-110	.6	20	

MATRIX SPIKE SAMPLE: 726111

Parameter	Units	5061995012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	ND	2	1.7	84	90-110	M0
Nitrogen, Nitrite	mg/L	ND	2	1.9	93	90-110	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5061995

QC Batch: WETA/7922 — Analysis Method: ASTM D516-90,02
QC Batch Method: ASTM D516-90,02 — Analysis Description: ASTM D516-9002 Sulfate Water
Associated Lab Samples: 5061995001, 5061995002, 5061995003, 5061995004, 5061995005, 5061995006, 5061995007, 5061995008, 5061995009, 5061995010, 5061995011, 5061995012, 5061995013

METHOD BLANK: 726428 — Matrix: Water
Associated Lab Samples: 5061995001, 5061995002, 5061995003, 5061995004, 5061995005, 5061995006, 5061995007, 5061995008, 5061995009, 5061995010, 5061995011, 5061995012, 5061995013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	5.0	04/27/12 11:00	N2

LABORATORY CONTROL SAMPLE: 726429

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	20.9	104	90-110	N2

MATRIX SPIKE SAMPLE: 726430

Parameter	Units	5061759001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	35.2	50	97.8	125	90-110	M0,N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 726432 726433

Parameter	Units	5061995001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	176	200	200	445	444	134	134	90-110	.2	20	M3,N2

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QUALIFIERS

Project: MI Plaza M01046
Pace Project No.: 5061995

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.
ND - Not Detected at or above adjusted reporting limit.
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PRL - Pace Reporting Limit.
RL - Reporting Limit.
S - Surrogate
1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

ANALYTE QUALIFIERS

HS	Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M3	Matrix spike recovery was outside laboratory control limits due to matrix interferences.
N2	The lab does not hold TNI accreditation for this parameter.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MI Plaza M01046
Pace Project No.: 5061995

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5061995001	**MMW-9S**	EPA 8260	MSV/41768		
5061995002	**MMW-1S**	EPA 8260	MSV/41768		
5061995003	**MMW-8S**	EPA 8260	MSV/41768		
5061995004	**MMW-P-03S**	EPA 8260	MSV/41768		
5061995005	**MMW-P-03D**	EPA 8260	MSV/41768		
5061995006	**MMW-P-02**	EPA 8260	MSV/41777		
5061995007	**MMW-P-05**	EPA 8260	MSV/41768		
5061995008	**MMW-P-10S**	EPA 8260	MSV/41976		
5061995009	**MMW-P-10D**	EPA 8260	MSV/41777		
5061995010	**MMW-P-08**	EPA 8260	MSV/41777		
5061995011	**MMW-P-07**	EPA 8260	MSV/41777		
5061995012	**MMW-P-01**	EPA 8260	MSV/41777		
5061995013	**Dup 1**	EPA 8260	MSV/41976		
5061995014	**Trip Blank**	EPA 8260	MSV/41777		
5061995001	**MMW-9S**	SM 5310C	OHIO/2415		
5061995002	**MMW-1S**	SM 5310C	OHIO/2415		
5061995003	**MMW-8S**	SM 5310C	OHIO/2415		
5061995004	**MMW-P-03S**	SM 5310C	OHIO/2415		
5061995005	**MMW-P-03D**	SM 5310C	OHIO/2415		
5061995006	**MMW-P-02**	SM 5310C	OHIO/2415		
5061995007	**MMW-P-05**	SM 5310C	OHIO/2415		
5061995008	**MMW-P-10S**	SM 5310C	OHIO/2415		
5061995009	**MMW-P-10D**	SM 5310C	OHIO/2415		
5061995010	**MMW-P-08**	SM 5310C	OHIO/2415		
5061995011	**MMW-P-07**	SM 5310C	OHIO/2415		
5061995012	**MMW-P-01**	SM 5310C	OHIO/2415		
5061995013	**Dup 1**	SM 5310C	OHIO/2415		
5061995001	**MMW-9S**	EPA 353.2	WETA/7918		
5061995002	**MMW-1S**	EPA 353.2	WETA/7918		
5061995003	**MMW-8S**	EPA 353.2	WETA/7918		
5061995004	**MMW-P-03S**	EPA 353.2	WETA/7918		
5061995005	**MMW-P-03D**	EPA 353.2	WETA/7918		
5061995006	**MMW-P-02**	EPA 353.2	WETA/7918		
5061995007	**MMW-P-05**	EPA 353.2	WETA/7918		
5061995008	**MMW-P-10S**	EPA 353.2	WETA/7918		
5061995009	**MMW-P-10D**	EPA 353.2	WETA/7918		
5061995010	**MMW-P-08**	EPA 353.2	WETA/7918		
5061995011	**MMW-P-07**	EPA 353.2	WETA/7918		
5061995012	**MMW-P-01**	EPA 353.2	WETA/7918		
5061995013	**Dup 1**	EPA 353.2	WETA/7918		
5061995001	**MMW-9S**	ASTM D516-90,02	WETA/7922		
5061995002	**MMW-1S**	ASTM D516-90,02	WETA/7922		
5061995003	**MMW-8S**	ASTM D516-90,02	WETA/7922		
5061995004	**MMW-P-03S**	ASTM D516-90,02	WETA/7922		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MI Plaza M01046
Pace Project No.: 5061995

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5061995005	**MMW-P-03D**	ASTM D516-90,02	WETA/7922		
5061995006	**MMW-P-02**	ASTM D516-90,02	WETA/7922		
5061995007	**MMW-P-05**	ASTM D516-90,02	WETA/7922		
5061995008	**MMW-P-10S**	ASTM D516-90,02	WETA/7922		
5061995009	**MMW-P-10D**	ASTM D516-90,02	WETA/7922		
5061995010	**MMW-P-08**	ASTM D516-90,02	WETA/7922		
5061995011	**MMW-P-07**	ASTM D516-90,02	WETA/7922		
5061995012	**MMW-P-01**	ASTM D516-90,02	WETA/7922		
5061995013	**Dup 1**	ASTM D516-90,02	WETA/7922		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

VLK

Page: 1 of 2

1337907

Section A Required Client Information:

Company: Mundell & Assoc
Address: 110 S Downey Ave Indpls, IN
Email To:
Phone: Fax:
Requested Due Date/TAT: SAT

Section B Required Project Information:

Report To: Mark Breting
Copy To:
Purchase Order No.:
Project Name: MI Plaza
Project Number: M4046

Section C Invoice Information:

Attention: Merle Tebbe
Company Name: Mundell
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE:

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	SL. Voc's 8260	TOC	Nitrate	Nitrite	Sulfate	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MMW-9S (MS/MSD)	WT	G			4/25/12	8:09A		15	3	J		9						X	X	X	X	X		-001
2	MMW-1S						9:23A		5	1	1		3												-002
3	MMW-8S						10:04A		5	1	1		3												-003
4	MMW-P-03S						10:51A		5	1	1		3												-004
5	MMW-P-03D						11:24A		5	1	1		3												-005
6	MMW-P-02						12:36P		5	1	1		3												-006
7	MMW-P-05						1:15P		5	1	1		3												-007
8	MMW-P-10S						1:54P		5	1	1		3												-008
9	MMW-P-10D						2:37P		5	1	1		3												-009
10	MMW-P-08						3:04P		5	1	1		3												-010
11	MMW-P-07						3:30P		5	1	1		3												-011
12	MMW-P-01						3:56P		5	1	1		3												-012

5061995

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[signature]	4/26/12	10:40	[signature]	4/26/12	10:40	

WF / Pace Kee 4-26-12 1232

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Andy Dammeyer
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 4/25/12

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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CHAIN-OF-CUSTODY / Analytical Request Document

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1337905

Section A
Required Client Information:

Company: Mundell
Address: 110 S Downey
Indpls, IN
Email To:
Phone: Fax:
Requested Due Date/TAT: SAT

Section B
Required Project Information:

Report To: Mark Bretting
Copy To:
Purchase Order No.:
Project Name: MI Plaza
Project Number: M01046

Section C
Invoice Information:

Attention: Mark Tebbe
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location
STATE: _____

Section D
Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes
MATRIX / CODE

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): SL. VOCs 8260	TOC	Nitrate	Nitrite	Sulfate	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	Trip Blank	WT	G						3				3											014
2	DuP 1								5		1	1	3					X	X	X	X	X		03
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[signature]	4/26/12	10:40	[signature]	4/26/12	10:40	

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Andy Dammeyer
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 4/25/12

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

WI Pace
Kee 4-26-12
1232

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt

Pace Analytical

Client Name: Mundell

Project # 5061995

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Date/Time 5035A kits placed in freezer _____

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other foam

Thermometer Used 1 2 3 4 5 A B C D E Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature (Corrected, if applicable) 2.2°C Ice Visible in Sample Containers: ☐ yes ☒ no

Temp should be above freezing to 6°C

Date and Initials of person examining contents: KLO 4-26-12

				Comments:
Chain of Custody Present:	☒Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☒Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☒Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☒Yes	☐No	☐N/A	4.
Short Hold Time Analysis (<72hr):	☒Yes	☐No	☐N/A	5. Nitrates
Rush Turn Around Time Requested:	☐Yes	☐No	☐N/A	6.
Containers Intact:	☒Yes	☐No	☐N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	☒Yes	☐No	☐N/A	8.
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G	☐Yes	☐No	☒N/A	9. (Circle) HNO3 H2SO4 NaOH HCl
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No	☒N/A.	
Headspace in VOA Vials (>6mm):	☐Yes	☒No	☐N/A	10.
Trip Blank Present:	☒Yes	☐No	☐N/A	11.
Trip Blank Custody Seals Present	☒Yes	☐No	☐N/A	
Project Manager Review				
Samples Arrived within Hold Time:	☒Yes	☐No	☐N/A	12.
Sufficient Volume:	☒Yes	☐No	☐N/A	13.
Correct Containers Used:	☒Yes	☐No	☐N/A	14.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Y Sayer **Date:** 4/26/12

Form F-IN-Q290-rev.04, 28Apr2011

Sample Container Count

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CLIENT: Mundell

COC PAGE 1 of 2
COC ID# 1337907

Project # 506995

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H			Comments
1	9									3		3				
2	3									1		1				
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved **amber** vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved **clear** vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

Sample Container Count

Pace Analytical
www.pacelabs.com

CLIENT: Mundell

COC PAGE 2 of 2
COC ID# 1337905

Project # 5061995

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R 4 / 6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H			Comments
1	3															
2	3									1		1				
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved **amber** vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved **clear** vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

Pace Analytical Services, Inc.
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Columbus, OH 43215
(614)486-5421

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7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

May 09, 2012

Mr. Mark Breting
Mundell & Associates
110 S. Downey Ave.
Indianapolis, IN 46228

RE: Project: MI Plaza M01046
Pace Project No.: 5062063

Dear Mr. Breting:
Enclosed are the analytical results for sample(s) received by the laboratory on April 27, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Sayer

Tina Sayer

tina.sayer@pacelabs.com
Project Manager

Enclosures

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Indianapolis, IN 46268
(317)875-5894

CERTIFICATIONS

Project: MI Plaza M01046
Pace Project No.: 5062063

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana/NELAC Certification #: 04076
Ohio VAP: CL0065
Pennsylvania: 68-04991
West Virginia Certification #: 330

Ohio Certification IDs
1233 Dublin Road, Columbus, OH 43215
Indiana Drinking Water Certification #: C-OH-11
NVLAP Certification #: 90132
Ohio Drinking Water Certification #: 1030
Ohio Microbiology Certification #: 943

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Indianapolis, IN 46268
(317)875-5894

SAMPLE SUMMARY

Project: MI Plaza M01046
Pace Project No.: 5062063

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5062063001	**MMW-P-06**	Water	04/26/12 08:33	04/27/12 11:15
5062063002	**MMW-7S**	Water	04/26/12 09:25	04/27/12 11:15
5062063003	**MMW-15S**	Water	04/26/12 10:08	04/27/12 11:15
5062063004	**MMW-15D**	Water	04/26/12 10:36	04/27/12 11:15
5062063005	**MMW-P-14S**	Water	04/26/12 11:54	04/27/12 11:15
5062063006	**MMW-P-14D**	Water	04/26/12 12:30	04/27/12 11:15
5062063007	**MMW-P-13S**	Water	04/26/12 13:04	04/27/12 11:15
5062063008	**MMW-P-13D**	Water	04/26/12 13:40	04/27/12 11:15
5062063009	**MMW-C-02D**	Water	04/26/12 14:19	04/27/12 11:15
5062063010	**Dup 2**	Water	04/26/12 08:00	04/27/12 11:15
5062063011	**Trip Blank**	Water	04/26/12 08:00	04/27/12 11:15

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7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

SAMPLE ANALYTE COUNT

Project: MI Plaza M01046
Pace Project No.: 5062063

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5062063001	**MMW-P-06**	EPA 8260	SLB	18
		SM 5310C	GR1	1
		EPA 353.2	ILP	2
		ASTM D516-90,02	TPD	1
5062063002	**MMW-7S**	EPA 8260	SLB	18
5062063003	**MMW-15S**	EPA 8260	SLB	18
5062063004	**MMW-15D**	EPA 8260	SLB	18
5062063005	**MMW-P-14S**	EPA 8260	SLB	18
5062063006	**MMW-P-14D**	EPA 8260	SLB	18
5062063007	**MMW-P-13S**	EPA 8260	SLB	18
5062063008	**MMW-P-13D**	EPA 8260	SLB	18
5062063009	**MMW-C-02D**	EPA 8260	SLB	18
5062063010	**Dup 2**	EPA 8260	SLB	18
5062063011	**Trip Blank**	EPA 8260	SLB	18

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5062063

Sample: MMW-P-06 **Lab ID: 5062063001** Collected: 04/26/12 08:33 Received: 04/27/12 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		05/03/12 02:15	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		05/03/12 02:15	56-23-5	
Chloroform	ND	ug/L	5.0	1		05/03/12 02:15	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/03/12 02:15	75-35-4	
cis-1,2-Dichloroethene	**3220**	ug/L	125	25		05/03/12 23:55	156-59-2	
trans-1,2-Dichloroethene	**29.2**	ug/L	5.0	1		05/03/12 02:15	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		05/03/12 02:15	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		05/03/12 02:15	75-09-2	
Naphthalene	ND	ug/L	5.0	1		05/03/12 02:15	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		05/03/12 02:15	127-18-4	
Toluene	ND	ug/L	5.0	1		05/03/12 02:15	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/03/12 02:15	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		05/03/12 02:15	79-01-6	
Vinyl chloride	**7090**	ug/L	50.0	25		05/03/12 23:55	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/03/12 02:15	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	95	%.	83-123	1		05/03/12 02:15	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	72-125	1		05/03/12 02:15	460-00-4	
Toluene-d8 (S)	100	%.	81-114	1		05/03/12 02:15	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**4.4**	mg/L	0.30	1		05/07/12 18:07	7440-44-0	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		04/27/12 15:07		
Nitrogen, Nitrite	ND	mg/L	0.10	1		04/27/12 15:07		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**65.5**	mg/L	25.0	1		05/04/12 10:20	14808-79-8	N2

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Columbus, OH 43215
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7726 Moller Road
Indianapolis, IN 46268
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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5062063

Sample: MMW-7S **Lab ID: 5062063002** Collected: 04/26/12 09:25 Received: 04/27/12 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		05/04/12 00:26	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		05/04/12 00:26	56-23-5	
Chloroform	ND	ug/L	5.0	1		05/04/12 00:26	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/04/12 00:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/04/12 00:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/04/12 00:26	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		05/04/12 00:26	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		05/04/12 00:26	75-09-2	
Naphthalene	ND	ug/L	5.0	1		05/04/12 00:26	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		05/04/12 00:26	127-18-4	
Toluene	ND	ug/L	5.0	1		05/04/12 00:26	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/04/12 00:26	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		05/04/12 00:26	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		05/04/12 00:26	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/04/12 00:26	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	83-123	1		05/04/12 00:26	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	72-125	1		05/04/12 00:26	460-00-4	
Toluene-d8 (S)	100	%.	81-114	1		05/04/12 00:26	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5062063

Sample: MMW-15S **Lab ID: 5062063003** Collected: 04/26/12 10:08 Received: 04/27/12 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		05/03/12 03:17	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		05/03/12 03:17	56-23-5	
Chloroform	ND	ug/L	5.0	1		05/03/12 03:17	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/03/12 03:17	75-35-4	
cis-1,2-Dichloroethene	**11.2**	ug/L	5.0	1		05/03/12 03:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/03/12 03:17	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		05/03/12 03:17	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		05/03/12 03:17	75-09-2	
Naphthalene	ND	ug/L	5.0	1		05/03/12 03:17	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		05/03/12 03:17	127-18-4	
Toluene	ND	ug/L	5.0	1		05/03/12 03:17	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/03/12 03:17	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		05/03/12 03:17	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		05/03/12 03:17	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/03/12 03:17	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%.	83-123	1		05/03/12 03:17	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	72-125	1		05/03/12 03:17	460-00-4	
Toluene-d8 (S)	99	%.	81-114	1		05/03/12 03:17	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5062063

Sample: MMW-15D **Lab ID: 5062063004** Collected: 04/26/12 10:36 Received: 04/27/12 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		05/03/12 03:49	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		05/03/12 03:49	56-23-5	
Chloroform	ND	ug/L	5.0	1		05/03/12 03:49	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/03/12 03:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/03/12 03:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/03/12 03:49	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		05/03/12 03:49	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		05/03/12 03:49	75-09-2	
Naphthalene	ND	ug/L	5.0	1		05/03/12 03:49	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		05/03/12 03:49	127-18-4	
Toluene	ND	ug/L	5.0	1		05/03/12 03:49	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/03/12 03:49	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		05/03/12 03:49	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		05/03/12 03:49	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/03/12 03:49	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%.	83-123	1		05/03/12 03:49	1868-53-7	
4-Bromofluorobenzene (S)	96	%.	72-125	1		05/03/12 03:49	460-00-4	
Toluene-d8 (S)	105	%.	81-114	1		05/03/12 03:49	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5062063

Sample: MMW-P-14S **Lab ID: 5062063005** Collected: 04/26/12 11:54 Received: 04/27/12 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		05/03/12 04:20	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		05/03/12 04:20	56-23-5	
Chloroform	ND	ug/L	5.0	1		05/03/12 04:20	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/03/12 04:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/03/12 04:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/03/12 04:20	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		05/03/12 04:20	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		05/03/12 04:20	75-09-2	
Naphthalene	ND	ug/L	5.0	1		05/03/12 04:20	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		05/03/12 04:20	127-18-4	
Toluene	ND	ug/L	5.0	1		05/03/12 04:20	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/03/12 04:20	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		05/03/12 04:20	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		05/03/12 04:20	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/03/12 04:20	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	93	%.	83-123	1		05/03/12 04:20	1868-53-7	
4-Bromofluorobenzene (S)	96	%.	72-125	1		05/03/12 04:20	460-00-4	
Toluene-d8 (S)	99	%.	81-114	1		05/03/12 04:20	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5062063

Sample: MMW-P-14D **Lab ID: 5062063006** Collected: 04/26/12 12:30 Received: 04/27/12 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		05/03/12 04:51	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		05/03/12 04:51	56-23-5	
Chloroform	ND	ug/L	5.0	1		05/03/12 04:51	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/03/12 04:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/03/12 04:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/03/12 04:51	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		05/03/12 04:51	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		05/03/12 04:51	75-09-2	
Naphthalene	ND	ug/L	5.0	1		05/03/12 04:51	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		05/03/12 04:51	127-18-4	
Toluene	ND	ug/L	5.0	1		05/03/12 04:51	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/03/12 04:51	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		05/03/12 04:51	79-01-6	
Vinyl chloride	**49.5**	ug/L	2.0	1		05/03/12 04:51	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/03/12 04:51	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%.	83-123	1		05/03/12 04:51	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	72-125	1		05/03/12 04:51	460-00-4	
Toluene-d8 (S)	100	%.	81-114	1		05/03/12 04:51	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5062063

Sample: MMW-P-13S **Lab ID: 5062063007** Collected: 04/26/12 13:04 Received: 04/27/12 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		05/03/12 05:23	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		05/03/12 05:23	56-23-5	
Chloroform	ND	ug/L	5.0	1		05/03/12 05:23	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/03/12 05:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/03/12 05:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/03/12 05:23	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		05/03/12 05:23	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		05/03/12 05:23	75-09-2	
Naphthalene	ND	ug/L	5.0	1		05/03/12 05:23	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		05/03/12 05:23	127-18-4	
Toluene	ND	ug/L	5.0	1		05/03/12 05:23	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/03/12 05:23	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		05/03/12 05:23	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		05/03/12 05:23	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/03/12 05:23	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	83-123	1		05/03/12 05:23	1868-53-7	
4-Bromofluorobenzene (S)	96	%.	72-125	1		05/03/12 05:23	460-00-4	
Toluene-d8 (S)	99	%.	81-114	1		05/03/12 05:23	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5062063

Sample: MMW-P-13D **Lab ID: 5062063008** Collected: 04/26/12 13:40 Received: 04/27/12 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		05/03/12 06:57	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		05/03/12 06:57	56-23-5	
Chloroform	ND	ug/L	5.0	1		05/03/12 06:57	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/03/12 06:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/03/12 06:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/03/12 06:57	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		05/03/12 06:57	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		05/03/12 06:57	75-09-2	
Naphthalene	ND	ug/L	5.0	1		05/03/12 06:57	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		05/03/12 06:57	127-18-4	
Toluene	ND	ug/L	5.0	1		05/03/12 06:57	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/03/12 06:57	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		05/03/12 06:57	79-01-6	
Vinyl chloride	**132**	ug/L	2.0	1		05/03/12 06:57	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/03/12 06:57	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	95	%.	83-123	1		05/03/12 06:57	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	72-125	1		05/03/12 06:57	460-00-4	
Toluene-d8 (S)	103	%.	81-114	1		05/03/12 06:57	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5062063

Sample: MMW-C-02D **Lab ID: 5062063009** Collected: 04/26/12 14:19 Received: 04/27/12 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		05/03/12 07:29	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		05/03/12 07:29	56-23-5	
Chloroform	ND	ug/L	5.0	1		05/03/12 07:29	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/03/12 07:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/03/12 07:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/03/12 07:29	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		05/03/12 07:29	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		05/03/12 07:29	75-09-2	
Naphthalene	ND	ug/L	5.0	1		05/03/12 07:29	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		05/03/12 07:29	127-18-4	
Toluene	ND	ug/L	5.0	1		05/03/12 07:29	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/03/12 07:29	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		05/03/12 07:29	79-01-6	
Vinyl chloride	**55.1**	ug/L	2.0	1		05/03/12 07:29	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/03/12 07:29	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	83-123	1		05/03/12 07:29	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	72-125	1		05/03/12 07:29	460-00-4	
Toluene-d8 (S)	100	%.	81-114	1		05/03/12 07:29	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5062063

Sample: Dup 2 **Lab ID: 5062063010** Collected: 04/26/12 08:00 Received: 04/27/12 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		05/04/12 02:00	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		05/04/12 02:00	56-23-5	
Chloroform	ND	ug/L	5.0	1		05/04/12 02:00	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/04/12 02:00	75-35-4	
cis-1,2-Dichloroethene	**3930**	ug/L	125	25		05/05/12 08:38	156-59-2	
trans-1,2-Dichloroethene	**25.8**	ug/L	5.0	1		05/04/12 02:00	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		05/04/12 02:00	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		05/04/12 02:00	75-09-2	
Naphthalene	ND	ug/L	5.0	1		05/04/12 02:00	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		05/04/12 02:00	127-18-4	
Toluene	ND	ug/L	5.0	1		05/04/12 02:00	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/04/12 02:00	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		05/04/12 02:00	79-01-6	
Vinyl chloride	**9220**	ug/L	100	50		05/07/12 19:03	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/04/12 02:00	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	83-123	1		05/04/12 02:00	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	72-125	1		05/04/12 02:00	460-00-4	
Toluene-d8 (S)	99	%.	81-114	1		05/04/12 02:00	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5062063

Sample: Trip Blank **Lab ID: 5062063011** Collected: 04/26/12 08:00 Received: 04/27/12 11:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		05/04/12 02:32	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		05/04/12 02:32	56-23-5	
Chloroform	ND	ug/L	5.0	1		05/04/12 02:32	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/04/12 02:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/04/12 02:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/04/12 02:32	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		05/04/12 02:32	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		05/04/12 02:32	75-09-2	
Naphthalene	ND	ug/L	5.0	1		05/04/12 02:32	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		05/04/12 02:32	127-18-4	
Toluene	ND	ug/L	5.0	1		05/04/12 02:32	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/04/12 02:32	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		05/04/12 02:32	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		05/04/12 02:32	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/04/12 02:32	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	93	%.	83-123	1		05/04/12 02:32	1868-53-7	
4-Bromofluorobenzene (S)	94	%.	72-125	1		05/04/12 02:32	460-00-4	
Toluene-d8 (S)	99	%.	81-114	1		05/04/12 02:32	2037-26-5	

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(317)875-5894

QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5062063

QC Batch: MSV/41779 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5062063001, 5062063003, 5062063004, 5062063005, 5062063006, 5062063007, 5062063008, 5062063009

METHOD BLANK: 728612 Matrix: Water
Associated Lab Samples: 5062063001, 5062063003, 5062063004, 5062063005, 5062063006, 5062063007, 5062063008, 5062063009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	05/02/12 21:31	
1,1-Dichloroethene	ug/L	ND	5.0	05/02/12 21:31	
Benzene	ug/L	ND	5.0	05/02/12 21:31	
Carbon tetrachloride	ug/L	ND	5.0	05/02/12 21:31	
Chloroform	ug/L	ND	5.0	05/02/12 21:31	
cis-1,2-Dichloroethene	ug/L	ND	5.0	05/02/12 21:31	
Ethylbenzene	ug/L	ND	5.0	05/02/12 21:31	
Methylene Chloride	ug/L	ND	5.0	05/02/12 21:31	
Naphthalene	ug/L	ND	5.0	05/02/12 21:31	
Tetrachloroethene	ug/L	ND	5.0	05/02/12 21:31	
Toluene	ug/L	ND	5.0	05/02/12 21:31	
trans-1,2-Dichloroethene	ug/L	ND	5.0	05/02/12 21:31	
Trichloroethene	ug/L	ND	5.0	05/02/12 21:31	
Vinyl chloride	ug/L	ND	2.0	05/02/12 21:31	
Xylene (Total)	ug/L	ND	10.0	05/02/12 21:31	
4-Bromofluorobenzene (S)	%.	97	72-125	05/02/12 21:31	
Dibromofluoromethane (S)	%.	101	83-123	05/02/12 21:31	
Toluene-d8 (S)	%.	100	81-114	05/02/12 21:31	

LABORATORY CONTROL SAMPLE: 728613

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	40.1	80	69-126	
1,1-Dichloroethene	ug/L	50	38.8	78	75-145	
Benzene	ug/L	50	45.9	92	76-123	
Carbon tetrachloride	ug/L	50	40.5	81	65-125	
Chloroform	ug/L	50	43.9	88	73-122	
cis-1,2-Dichloroethene	ug/L	50	45.7	91	79-129	
Ethylbenzene	ug/L	50	42.2	84	75-120	
Methylene Chloride	ug/L	50	40.3	81	61-138	
Naphthalene	ug/L	50	42.8	86	62-130	
Tetrachloroethene	ug/L	50	43.4	87	57-125	
Toluene	ug/L	50	44.1	88	72-124	
trans-1,2-Dichloroethene	ug/L	50	42.7	85	71-145	
Trichloroethene	ug/L	50	43.2	86	77-122	
Vinyl chloride	ug/L	50	36.4	73	61-146	
Xylene (Total)	ug/L	150	126	84	72-126	
4-Bromofluorobenzene (S)	%.			96	72-125	
Dibromofluoromethane (S)	%.			98	83-123	
Toluene-d8 (S)	%.			98	81-114	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5062063

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 728614 728615

Parameter	Units	5062063007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	50	50	39.4	40.3	79	81	37-136	2	20	
1,1-Dichloroethene	ug/L	ND	50	50	43.0	43.9	86	88	54-152	2	20	
Benzene	ug/L	ND	50	50	45.9	46.5	92	93	52-134	1	20	
Carbon tetrachloride	ug/L	ND	50	50	38.8	39.5	78	79	26-136	2	20	
Chloroform	ug/L	ND	50	50	42.3	43.7	85	87	50-134	3	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	44.2	45.0	88	90	48-145	2	20	
Ethylbenzene	ug/L	ND	50	50	41.9	41.1	84	82	29-132	2	20	
Methylene Chloride	ug/L	ND	50	50	44.0	43.4	88	87	47-141	1	20	
Naphthalene	ug/L	ND	50	50	38.7	40.7	77	81	40-124	5	20	
Tetrachloroethene	ug/L	ND	50	50	40.7	41.3	81	83	30-124	1	20	
Toluene	ug/L	ND	50	50	43.3	43.8	87	88	42-130	1	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	43.9	44.1	88	88	48-144	.5	20	
Trichloroethene	ug/L	ND	50	50	41.6	42.6	83	85	44-130	2	20	
Vinyl chloride	ug/L	ND	50	50	43.2	44.1	86	88	45-159	2	20	
Xylene (Total)	ug/L	ND	150	150	122	117	81	78	29-131	4	20	
4-Bromofluorobenzene (S)	%.						95	99	72-125		20	
Dibromofluoromethane (S)	%.						92	97	83-123		20	
Toluene-d8 (S)	%.						101	100	81-114		20	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5062063

QC Batch: MSV/41818 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5062063002, 5062063010, 5062063011

METHOD BLANK: 729154 Matrix: Water
Associated Lab Samples: 5062063002, 5062063010, 5062063011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	05/03/12 21:48	
1,1-Dichloroethene	ug/L	ND	5.0	05/03/12 21:48	
Benzene	ug/L	ND	5.0	05/03/12 21:48	
Carbon tetrachloride	ug/L	ND	5.0	05/03/12 21:48	
Chloroform	ug/L	ND	5.0	05/03/12 21:48	
cis-1,2-Dichloroethene	ug/L	ND	5.0	05/03/12 21:48	
Ethylbenzene	ug/L	ND	5.0	05/03/12 21:48	
Methylene Chloride	ug/L	ND	5.0	05/03/12 21:48	
Naphthalene	ug/L	ND	5.0	05/03/12 21:48	
Tetrachloroethene	ug/L	ND	5.0	05/03/12 21:48	
Toluene	ug/L	ND	5.0	05/03/12 21:48	
trans-1,2-Dichloroethene	ug/L	ND	5.0	05/03/12 21:48	
Trichloroethene	ug/L	ND	5.0	05/03/12 21:48	
Vinyl chloride	ug/L	ND	2.0	05/03/12 21:48	
Xylene (Total)	ug/L	ND	10.0	05/03/12 21:48	
4-Bromofluorobenzene (S)	%.	95	72-125	05/03/12 21:48	
Dibromofluoromethane (S)	%.	94	83-123	05/03/12 21:48	
Toluene-d8 (S)	%.	100	81-114	05/03/12 21:48	

LABORATORY CONTROL SAMPLE: 729155

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	43.4	87	69-126	
1,1-Dichloroethene	ug/L	50	45.9	92	75-145	
Benzene	ug/L	50	51.5	103	76-123	
Carbon tetrachloride	ug/L	50	40.3	81	65-125	
Chloroform	ug/L	50	47.3	95	73-122	
cis-1,2-Dichloroethene	ug/L	50	49.9	100	79-129	
Ethylbenzene	ug/L	50	47.1	94	75-120	
Methylene Chloride	ug/L	50	49.7	99	61-138	
Naphthalene	ug/L	50	49.8	100	62-130	
Tetrachloroethene	ug/L	50	46.6	93	57-125	
Toluene	ug/L	50	50.9	102	72-124	
trans-1,2-Dichloroethene	ug/L	50	49.9	100	71-145	
Trichloroethene	ug/L	50	48.3	97	77-122	
Vinyl chloride	ug/L	50	46.7	93	61-146	
Xylene (Total)	ug/L	150	140	94	72-126	
4-Bromofluorobenzene (S)	%.			97	72-125	
Dibromofluoromethane (S)	%.			91	83-123	
Toluene-d8 (S)	%.			101	81-114	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5062063

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 729156 729157

Parameter	Units	5062063002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	50	50	40.4	47.2	81	94	37-136	16	20	
1,1-Dichloroethene	ug/L	ND	50	50	45.3	51.2	91	102	54-152	12	20	
Benzene	ug/L	ND	50	50	48.1	58.1	96	116	52-134	19	20	
Carbon tetrachloride	ug/L	ND	50	50	38.5	46.9	77	94	26-136	20	20	
Chloroform	ug/L	ND	50	50	43.7	51.0	87	102	50-134	15	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	48.7	56.3	97	113	48-145	14	20	
Ethylbenzene	ug/L	ND	50	50	44.4	53.2	89	106	29-132	18	20	
Methylene Chloride	ug/L	ND	50	50	44.6	53.3	89	107	47-141	18	20	
Naphthalene	ug/L	ND	50	50	43.3	52.7	87	105	40-124	20	20	
Tetrachloroethene	ug/L	ND	50	50	44.6	52.6	89	105	30-124	16	20	
Toluene	ug/L	ND	50	50	45.9	56.1	92	112	42-130	20	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	45.9	51.6	92	103	48-144	12	20	
Trichloroethene	ug/L	ND	50	50	44.1	51.6	88	103	44-130	16	20	
Vinyl chloride	ug/L	ND	50	50	45.7	52.3	91	105	45-159	13	20	
Xylene (Total)	ug/L	ND	150	150	131	161	87	107	29-131	20	20	RS
4-Bromofluorobenzene (S)	%.						99	101	72-125		20	
Dibromofluoromethane (S)	%.						93	92	83-123		20	
Toluene-d8 (S)	%.						101	102	81-114		20	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5062063

QC Batch: OHIO/2524
QC Batch Method: SM 5310C
Analysis Method: SM 5310C
Analysis Description: 5310C TOC
Associated Lab Samples: 5062063001

METHOD BLANK: 730754
Matrix: Water
Associated Lab Samples: 5062063001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	0.30	05/07/12 17:12	N2

LABORATORY CONTROL SAMPLE: 730755

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	4.7	94	80-120	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 730757 730758

Parameter	Units	5062063001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	4.4	4	4	8.1	8.1	93	94	75-125	.7	20	N2

SAMPLE DUPLICATE: 730756

Parameter	Units	5062063001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	4.4	4.2	4	20	N2

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5062063

QC Batch: WETA/7925
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 5062063001

METHOD BLANK: 726839
Matrix: Water
Associated Lab Samples: 5062063001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	04/27/12 15:05	
Nitrogen, Nitrite	mg/L	ND	0.10	04/27/12 15:05	

LABORATORY CONTROL SAMPLE: 726840

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2	2.0	100	90-110	
Nitrogen, Nitrite	mg/L	2	2.1	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 727346 727347

Parameter	Units	5062075005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	ND	2	2	2.0	2.0	96	96	90-110	.6	20	
Nitrogen, Nitrite	mg/L	ND	2	2	2.1	2.1	105	105	90-110	.6	20	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5062063

QC Batch: WETA/7952
QC Batch Method: ASTM D516-90,02
Associated Lab Samples: 5062063001

Analysis Method: ASTM D516-90,02
Analysis Description: ASTM D516-9002 Sulfate Water

METHOD BLANK: 729501
Matrix: Water
Associated Lab Samples: 5062063001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	5.0	05/04/12 10:20	N2

LABORATORY CONTROL SAMPLE: 729502

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	18.2	91	90-110	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 729503 729504

Parameter	Units	5062075005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	25.5	50	50	76.2	78.2	102	106	90-110	3	20	N2

MATRIX SPIKE SAMPLE: 729505

Parameter	Units	5062306001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	46200 ug/L	50	104	116	90-110	M0,N2

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QUALIFIERS

Project: MI Plaza M01046
Pace Project No.: 5062063

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
N2	The lab does not hold TNI accreditation for this parameter.
RS	The RPD value in one of the constituent analytes was outside the control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MI Plaza M01046
Pace Project No.: 5062063

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5062063001	**MMW-P-06**	EPA 8260	MSV/41779		
5062063002	**MMW-7S**	EPA 8260	MSV/41818		
5062063003	**MMW-15S**	EPA 8260	MSV/41779		
5062063004	**MMW-15D**	EPA 8260	MSV/41779		
5062063005	**MMW-P-14S**	EPA 8260	MSV/41779		
5062063006	**MMW-P-14D**	EPA 8260	MSV/41779		
5062063007	**MMW-P-13S**	EPA 8260	MSV/41779		
5062063008	**MMW-P-13D**	EPA 8260	MSV/41779		
5062063009	**MMW-C-02D**	EPA 8260	MSV/41779		
5062063010	**Dup 2**	EPA 8260	MSV/41818		
5062063011	**Trip Blank**	EPA 8260	MSV/41818		
5062063001	**MMW-P-06**	SM 5310C	OHIO/2524		
5062063001	**MMW-P-06**	EPA 353.2	WETA/7925		
5062063001	**MMW-P-06**	ASTM D516-90,02	WETA/7952		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1337908

Section A Required Client Information:

Company: Mundell
Address: 1105. Downey Indpls, IN
Email To:
Phone: 317-630-9060 Fax:
Requested Due Date/TAT: SAT

Section B Required Project Information:

Report To: Mark Breting
Copy To:
Purchase Order No.:
Project Name: MI Plaza
Project Number: M01046

Section C Invoice Information:

Attention: Merle Tebbe
Company Name: Mundell
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N): Y/N

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: SL VOCs	TOC	Nitrate	Nitrite	Sulfate	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 5062063
1	MMW-P-06	WT	G			4/26/12	8:33A		5	1	1		3					X	X	X	X	X		-001
2	MMW-7S						9:25A		2				2					X						-002
3	MMW-15S						10:05A		3				3					X						-003
4	MMW-15D						10:36A		3				3					X						-004
5	MMW-P-14S						11:54A		3				3					X						-005
6	MMW-P-14D						12:30P		3				3					X						-006
7	MMW-P-13S						1:04P		3				3					X						-007
8	MMW-P-13D						1:40P		3				3					X						-008
9	MMW-C-02D						2:19P		3				3					X						-009
10	DUP 2								3				3					X						-010
11	Trip Blank								3				3					X						-011
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[signature]	4/27/12	11:15	[signature]	4/27/12	11:15	

MB 4/27/12 12:22 ORIGINAL
Pace Courier w/ice

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Andy Darmeyer
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 4/26/12

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt

Pace Analytical

Client Name: Mundell

Project # 5062063

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact ☐ yes ☑ no

Date/Time 5035A kits placed in freezer

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other foam

Thermometer Used 1 2 3 4 6 A B C D E

Type of Ice: Wet Blue None ☑ Samples on ice, cooling process has begun

Cooler Temperature (Corrected, if applicable) 1.0°C

Ice Visible in Sample Containers: ☐ yes ☑ no

Temp should be above freezing to 6°C

Date and Initials of person examining contents: MB 4/

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☑N/A MB 4/27/12	5. Nitrate MB
Rush Turn Around Time Requested:	☐Yes ☐No ☑N/A	6.
Containers Intact:	☑Yes ☐No ☐N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	☐Yes ☑No ☐N/A	8. MMW-C-02D: COC = 2:19 / Vials = 2:16 MB
All containers needing acid/base pres have been checked? exceptions: VOA, coliform, TOC, O&G	☐Yes ☐No ☑N/A	9 (Circle) HNO3 H2SO4 NaOH HCl
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	10.
Trip Blank Present:	☑Yes ☐No ☐N/A	11.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Project Manager Review:		
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	12.
Sufficient Volume:	☑Yes ☐No ☐N/A	13.
Correct Containers Used:	☑Yes ☐No ☐N/A	14.

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: Y Sayli Date: 4/27/12

Sample Container Count

CLIENT: Mundell

COC PAGE 1 of 1
COC ID# 1337908

Project # 5062063

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Sample Line Item	DG9H	AG1U	WGFU	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H				Comments
1	3								1		1					
2	2															
3	3															
4	3															
5	3															
6	3															
7	3															
8	3															
9	3															
10	3															
11	3															
12																

Container Codes

DG9H	40mL HCL amber voa vial	AF	Air Filter	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	BP3A	250mL NaOh, Asc Acid plastic	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

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May 09, 2012

Mr. Mark Breting
Mundell & Associates
110 S. Downey Ave.
Indianapolis, IN 46228

RE: Project: MI Plaza M01046
Pace Project No.: 5062264

Dear Mr. Breting:
Enclosed are the analytical results for sample(s) received by the laboratory on May 02, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Sayer

Tina Sayer

tina.sayer@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: MI Plaza M01046
Pace Project No.: 5062264

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana/NELAC Certification #: 04076
Ohio VAP: CL0065
Pennsylvania: 68-04991
West Virginia Certification #: 330

Ohio Certification IDs
1233 Dublin Road, Columbus, OH 43215
Indiana Drinking Water Certification #: C-OH-11
NVLAP Certification #: 90132
Ohio Drinking Water Certification #: 1030
Ohio Microbiology Certification #: 943

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SAMPLE SUMMARY

Project: MI Plaza M01046
Pace Project No.: 5062264

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5062264001	**MMW-P-04**	Water	05/01/12 09:34	05/02/12 10:48
5062264002	**MMW-P-12S**	Water	05/01/12 10:18	05/02/12 10:48
5062264003	**MMW-P-12D**	Water	05/01/12 10:53	05/02/12 10:48
5062264004	**MMW-P-11S**	Water	05/01/12 11:36	05/02/12 10:48
5062264005	**MMW-P-11DR**	Water	05/01/12 12:15	05/02/12 10:48
5062264006	**Trip Blank**	Water	05/01/12 08:00	05/02/12 10:48
5062264007	**EQ Blank**	Water	05/01/12 08:00	05/02/12 10:48

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SAMPLE ANALYTE COUNT

Project: MI Plaza M01046
Pace Project No.: 5062264

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5062264001	**MMW-P-04**	EPA 8260	JLZ	18
		SM 5310C	GR1	1
		EPA 353.2	ILP	2
		ASTM D516-90,02	TPD	1
5062264002	**MMW-P-12S**	EPA 8260	JLZ	18
		SM 5310C	GR1	1
		EPA 353.2	ILP	2
		ASTM D516-90,02	TPD	1
5062264003	**MMW-P-12D**	EPA 8260	JLZ	18
		SM 5310C	GR1	1
		EPA 353.2	ILP	2
		ASTM D516-90,02	TPD	1
5062264004	**MMW-P-11S**	EPA 8260	JLZ	18
		SM 5310C	GR1	1
		EPA 353.2	ILP	2
		ASTM D516-90,02	TPD	1
5062264005	**MMW-P-11DR**	EPA 8260	JLZ	18
		SM 5310C	GR1	1
		EPA 353.2	ILP	2
		ASTM D516-90,02	TPD	1
5062264006	**Trip Blank**	EPA 8260	JLZ	18
5062264007	**EQ Blank**	EPA 8260	JLZ	18

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5062264

Sample: MMW-P-04 **Lab ID: 5062264001** Collected: 05/01/12 09:34 Received: 05/02/12 10:48 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		05/05/12 12:58	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		05/05/12 12:58	56-23-5	
Chloroform	ND	ug/L	5.0	1		05/05/12 12:58	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/05/12 12:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/05/12 12:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/05/12 12:58	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		05/05/12 12:58	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		05/05/12 12:58	75-09-2	
Naphthalene	ND	ug/L	5.0	1		05/05/12 12:58	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		05/05/12 12:58	127-18-4	
Toluene	ND	ug/L	5.0	1		05/05/12 12:58	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/05/12 12:58	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		05/05/12 12:58	79-01-6	
Vinyl chloride	**5.7**	ug/L	2.0	1		05/05/12 12:58	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/05/12 12:58	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	93	%.	83-123	1		05/05/12 12:58	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	72-125	1		05/05/12 12:58	460-00-4	
Toluene-d8 (S)	103	%.	81-114	1		05/05/12 12:58	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**4.2**	mg/L	0.30	1		05/08/12 02:35	7440-44-0	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/03/12 07:48		
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/03/12 07:48		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**15.4**	mg/L	5.0	1		05/04/12 10:20	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5062264

Sample: MMW-P-12S **Lab ID: 5062264002** Collected: 05/01/12 10:18 Received: 05/02/12 10:48 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		05/05/12 13:30	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		05/05/12 13:30	56-23-5	
Chloroform	ND	ug/L	5.0	1		05/05/12 13:30	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/05/12 13:30	75-35-4	
cis-1,2-Dichloroethene	**454**	ug/L	50.0	10		05/05/12 14:02	156-59-2	
trans-1,2-Dichloroethene	**12.4**	ug/L	5.0	1		05/05/12 13:30	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		05/05/12 13:30	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		05/05/12 13:30	75-09-2	
Naphthalene	ND	ug/L	5.0	1		05/05/12 13:30	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		05/05/12 13:30	127-18-4	
Toluene	ND	ug/L	5.0	1		05/05/12 13:30	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/05/12 13:30	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		05/05/12 13:30	79-01-6	
Vinyl chloride	**50.9**	ug/L	2.0	1		05/05/12 13:30	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/05/12 13:30	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	95	%.	83-123	1		05/05/12 13:30	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	72-125	1		05/05/12 13:30	460-00-4	
Toluene-d8 (S)	102	%.	81-114	1		05/05/12 13:30	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.6**	mg/L	0.30	1		05/08/12 03:07	7440-44-0	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/03/12 07:51		
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/03/12 07:51		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**176**	mg/L	25.0	1		05/04/12 10:20	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5062264

Sample: MMW-P-12D **Lab ID: 5062264003** Collected: 05/01/12 10:53 Received: 05/02/12 10:48 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		05/05/12 14:34	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		05/05/12 14:34	56-23-5	
Chloroform	ND	ug/L	5.0	1		05/05/12 14:34	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/05/12 14:34	75-35-4	
cis-1,2-Dichloroethene	**591**	ug/L	50.0	10		05/05/12 15:05	156-59-2	
trans-1,2-Dichloroethene	**15.2**	ug/L	5.0	1		05/05/12 14:34	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		05/05/12 14:34	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		05/05/12 14:34	75-09-2	
Naphthalene	ND	ug/L	5.0	1		05/05/12 14:34	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		05/05/12 14:34	127-18-4	
Toluene	ND	ug/L	5.0	1		05/05/12 14:34	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/05/12 14:34	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		05/05/12 14:34	79-01-6	
Vinyl chloride	**69.4**	ug/L	2.0	1		05/05/12 14:34	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/05/12 14:34	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	94	%.	83-123	1		05/05/12 14:34	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	72-125	1		05/05/12 14:34	460-00-4	
Toluene-d8 (S)	100	%.	81-114	1		05/05/12 14:34	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.8**	mg/L	0.30	1		05/08/12 03:31	7440-44-0	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/03/12 07:52		
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/03/12 07:52		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**135**	mg/L	50.0	1		05/04/12 10:20	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5062264

Sample: MMW-P-11S **Lab ID: 5062264004** Collected: 05/01/12 11:36 Received: 05/02/12 10:48 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		05/05/12 15:37	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		05/05/12 15:37	56-23-5	
Chloroform	ND	ug/L	5.0	1		05/05/12 15:37	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/05/12 15:37	75-35-4	
cis-1,2-Dichloroethene	**9.1**	ug/L	5.0	1		05/05/12 15:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/05/12 15:37	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		05/05/12 15:37	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		05/05/12 15:37	75-09-2	
Naphthalene	ND	ug/L	5.0	1		05/05/12 15:37	91-20-3	
Tetrachloroethene	**351**	ug/L	50.0	10		05/05/12 16:09	127-18-4	
Toluene	ND	ug/L	5.0	1		05/05/12 15:37	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/05/12 15:37	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		05/05/12 15:37	79-01-6	
Vinyl chloride	**8.5**	ug/L	2.0	1		05/05/12 15:37	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/05/12 15:37	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	95	%.	83-123	1		05/05/12 15:37	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	72-125	1		05/05/12 15:37	460-00-4	
Toluene-d8 (S)	103	%.	81-114	1		05/05/12 15:37	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.6**	mg/L	0.30	1		05/08/12 04:02	7440-44-0	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/03/12 07:53		
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/03/12 07:53		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**203**	mg/L	50.0	1		05/04/12 10:20	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5062264

Sample: MMW-P-11DR **Lab ID: 5062264005** Collected: 05/01/12 12:15 Received: 05/02/12 10:48 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		05/05/12 16:41	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		05/05/12 16:41	56-23-5	
Chloroform	ND	ug/L	5.0	1		05/05/12 16:41	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/05/12 16:41	75-35-4	
cis-1,2-Dichloroethene	**8.5**	ug/L	5.0	1		05/05/12 16:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/05/12 16:41	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		05/05/12 16:41	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		05/05/12 16:41	75-09-2	
Naphthalene	ND	ug/L	5.0	1		05/05/12 16:41	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		05/05/12 16:41	127-18-4	
Toluene	ND	ug/L	5.0	1		05/05/12 16:41	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/05/12 16:41	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		05/05/12 16:41	79-01-6	
Vinyl chloride	**102**	ug/L	2.0	1		05/05/12 16:41	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/05/12 16:41	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	93	%.	83-123	1		05/05/12 16:41	1868-53-7	
4-Bromofluorobenzene (S)	96	%.	72-125	1		05/05/12 16:41	460-00-4	
Toluene-d8 (S)	99	%.	81-114	1		05/05/12 16:41	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.9**	mg/L	0.30	1		05/08/12 04:34	7440-44-0	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		05/03/12 07:54		
Nitrogen, Nitrite	ND	mg/L	0.10	1		05/03/12 07:54		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**275**	mg/L	50.0	1		05/04/12 10:20	14808-79-8	N2

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(317)875-5894

ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5062264

Sample: Trip Blank **Lab ID: 5062264006** Collected: 05/01/12 08:00 Received: 05/02/12 10:48 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		05/05/12 17:13	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		05/05/12 17:13	56-23-5	
Chloroform	ND	ug/L	5.0	1		05/05/12 17:13	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/05/12 17:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/05/12 17:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/05/12 17:13	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		05/05/12 17:13	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		05/05/12 17:13	75-09-2	
Naphthalene	ND	ug/L	5.0	1		05/05/12 17:13	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		05/05/12 17:13	127-18-4	
Toluene	ND	ug/L	5.0	1		05/05/12 17:13	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/05/12 17:13	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		05/05/12 17:13	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		05/05/12 17:13	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/05/12 17:13	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	93	%.	83-123	1		05/05/12 17:13	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	72-125	1		05/05/12 17:13	460-00-4	
Toluene-d8 (S)	103	%.	81-114	1		05/05/12 17:13	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5062264

Sample: EQ Blank **Lab ID: 5062264007** Collected: 05/01/12 08:00 Received: 05/02/12 10:48 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		05/05/12 17:45	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		05/05/12 17:45	56-23-5	
Chloroform	**8.7**	ug/L	5.0	1		05/05/12 17:45	67-66-3	1d
1,1-Dichloroethene	ND	ug/L	5.0	1		05/05/12 17:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/05/12 17:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/05/12 17:45	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		05/05/12 17:45	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		05/05/12 17:45	75-09-2	
Naphthalene	ND	ug/L	5.0	1		05/05/12 17:45	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		05/05/12 17:45	127-18-4	
Toluene	ND	ug/L	5.0	1		05/05/12 17:45	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/05/12 17:45	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		05/05/12 17:45	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		05/05/12 17:45	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/05/12 17:45	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	94	%.	83-123	1		05/05/12 17:45	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	72-125	1		05/05/12 17:45	460-00-4	
Toluene-d8 (S)	103	%.	81-114	1		05/05/12 17:45	2037-26-5	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5062264

QC Batch: MSV/41895 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5062264001, 5062264002, 5062264003, 5062264004, 5062264005, 5062264006, 5062264007

METHOD BLANK: 730423 Matrix: Water
Associated Lab Samples: 5062264001, 5062264002, 5062264003, 5062264004, 5062264005, 5062264006, 5062264007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	05/05/12 12:26	
1,1-Dichloroethene	ug/L	ND	5.0	05/05/12 12:26	
Benzene	ug/L	ND	5.0	05/05/12 12:26	
Carbon tetrachloride	ug/L	ND	5.0	05/05/12 12:26	
Chloroform	ug/L	ND	5.0	05/05/12 12:26	
cis-1,2-Dichloroethene	ug/L	ND	5.0	05/05/12 12:26	
Ethylbenzene	ug/L	ND	5.0	05/05/12 12:26	
Methylene Chloride	ug/L	ND	5.0	05/05/12 12:26	
Naphthalene	ug/L	ND	5.0	05/05/12 12:26	
Tetrachloroethene	ug/L	ND	5.0	05/05/12 12:26	
Toluene	ug/L	ND	5.0	05/05/12 12:26	
trans-1,2-Dichloroethene	ug/L	ND	5.0	05/05/12 12:26	
Trichloroethene	ug/L	ND	5.0	05/05/12 12:26	
Vinyl chloride	ug/L	ND	2.0	05/05/12 12:26	
Xylene (Total)	ug/L	ND	10.0	05/05/12 12:26	
4-Bromofluorobenzene (S)	%.	99	72-125	05/05/12 12:26	
Dibromofluoromethane (S)	%.	95	83-123	05/05/12 12:26	
Toluene-d8 (S)	%.	102	81-114	05/05/12 12:26	

LABORATORY CONTROL SAMPLE: 730424

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	43.6	87	69-126	
1,1-Dichloroethene	ug/L	50	50.5	101	75-145	
Benzene	ug/L	50	44.3	89	76-123	
Carbon tetrachloride	ug/L	50	45.6	91	65-125	
Chloroform	ug/L	50	45.3	91	73-122	
cis-1,2-Dichloroethene	ug/L	50	43.6	87	79-129	
Ethylbenzene	ug/L	50	44.9	90	75-120	
Methylene Chloride	ug/L	50	51.2	102	61-138	
Naphthalene	ug/L	50	44.8	90	62-130	
Tetrachloroethene	ug/L	50	42.2	84	57-125	
Toluene	ug/L	50	44.9	90	72-124	
trans-1,2-Dichloroethene	ug/L	50	43.2	86	71-145	
Trichloroethene	ug/L	50	44.2	88	77-122	
Vinyl chloride	ug/L	50	53.0	106	61-146	
Xylene (Total)	ug/L	150	136	91	72-126	
4-Bromofluorobenzene (S)	%.			99	72-125	
Dibromofluoromethane (S)	%.			95	83-123	
Toluene-d8 (S)	%.			104	81-114	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5062264

MATRIX SPIKE SAMPLE: 730425

Parameter	Units	5062242001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	50	28.4	57	37-136	
1,1-Dichloroethene	ug/L	ND	50	36.9	74	54-152	
Benzene	ug/L	ND	50	30.5	61	52-134	
Carbon tetrachloride	ug/L	ND	50	28.7	57	26-136	
Chloroform	ug/L	ND	50	30.9	62	50-134	
cis-1,2-Dichloroethene	ug/L	ND	50	30.5	61	48-145	
Ethylbenzene	ug/L	ND	50	30.1	60	29-132	
Methylene Chloride	ug/L	ND	50	35.0	70	47-141	
Naphthalene	ug/L	ND	50	25.4	51	40-124	
Tetrachloroethene	ug/L	ND	50	31.4	63	30-124	
Toluene	ug/L	ND	50	29.9	60	42-130	
trans-1,2-Dichloroethene	ug/L	ND	50	31.0	62	48-144	
Trichloroethene	ug/L	ND	50	29.9	60	44-130	
Vinyl chloride	ug/L	ND	50	41.6	83	45-159	
Xylene (Total)	ug/L	ND	150	91.4	61	29-131	
4-Bromofluorobenzene (S)	%.				99	72-125	
Dibromofluoromethane (S)	%.				95	83-123	
Toluene-d8 (S)	%.				103	81-114	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5062264

QC Batch: OHIO/2524 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C TOC
Associated Lab Samples: 5062264001, 5062264002, 5062264003, 5062264004, 5062264005

METHOD BLANK: 730754 Matrix: Water
Associated Lab Samples: 5062264001, 5062264002, 5062264003, 5062264004, 5062264005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	0.30	05/07/12 17:12	N2

LABORATORY CONTROL SAMPLE: 730755

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	4.7	94	80-120	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 730757 730758

Parameter	Units	5062063001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	4.4	4	4	8.1	8.1	93	94	75-125	.7	20	N2

SAMPLE DUPLICATE: 730756

Parameter	Units	5062063001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	4.4	4.2	4	20	N2

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5062264

QC Batch: WETA/7947 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 5062264001, 5062264002, 5062264003, 5062264004, 5062264005

METHOD BLANK: 728857 Matrix: Water
Associated Lab Samples: 5062264001, 5062264002, 5062264003, 5062264004, 5062264005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	05/03/12 07:46	
Nitrogen, Nitrite	mg/L	ND	0.10	05/03/12 07:46	

LABORATORY CONTROL SAMPLE: 728858

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2	2.2	108	90-110	
Nitrogen, Nitrite	mg/L	2	2.1	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 728859 728860

Parameter	Units	5062264001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	ND	2	2	2.0	2.0	96	96	90-110	.9	20	
Nitrogen, Nitrite	mg/L	ND	2	2	2.0	2.0	97	97	90-110	.2	20	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5062264

QC Batch: WETA/7952 Analysis Method: ASTM D516-90,02
QC Batch Method: ASTM D516-90,02 Analysis Description: ASTM D516-9002 Sulfate Water
Associated Lab Samples: 5062264001, 5062264002, 5062264003, 5062264004, 5062264005

METHOD BLANK: 729501 Matrix: Water
Associated Lab Samples: 5062264001, 5062264002, 5062264003, 5062264004, 5062264005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	5.0	05/04/12 10:20	N2

LABORATORY CONTROL SAMPLE: 729502

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	18.2	91	90-110	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 729503 729504

Parameter	Units	5062075005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	25.5	50	50	76.2	78.2	102	106	90-110	3	20	N2

MATRIX SPIKE SAMPLE: 729505

Parameter	Units	5062306001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	46200 ug/L	50	104	116	90-110	M0,N2

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QUALIFIERS

Project: MI Plaza M01046
Pace Project No.: 5062264

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1d	Compound commonly found in commercially distributed water. JLZ 05/07/12.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
N2	The lab does not hold TNI accreditation for this parameter.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MI Plaza M01046
Pace Project No.: 5062264

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5062264001	**MMW-P-04**	EPA 8260	MSV/41895		
5062264002	**MMW-P-12S**	EPA 8260	MSV/41895		
5062264003	**MMW-P-12D**	EPA 8260	MSV/41895		
5062264004	**MMW-P-11S**	EPA 8260	MSV/41895		
5062264005	**MMW-P-11DR**	EPA 8260	MSV/41895		
5062264006	**Trip Blank**	EPA 8260	MSV/41895		
5062264007	**EQ Blank**	EPA 8260	MSV/41895		
5062264001	**MMW-P-04**	SM 5310C	OHIO/2524		
5062264002	**MMW-P-12S**	SM 5310C	OHIO/2524		
5062264003	**MMW-P-12D**	SM 5310C	OHIO/2524		
5062264004	**MMW-P-11S**	SM 5310C	OHIO/2524		
5062264005	**MMW-P-11DR**	SM 5310C	OHIO/2524		
5062264001	**MMW-P-04**	EPA 353.2	WETA/7947		
5062264002	**MMW-P-12S**	EPA 353.2	WETA/7947		
5062264003	**MMW-P-12D**	EPA 353.2	WETA/7947		
5062264004	**MMW-P-11S**	EPA 353.2	WETA/7947		
5062264005	**MMW-P-11DR**	EPA 353.2	WETA/7947		
5062264001	**MMW-P-04**	ASTM D516-90,02	WETA/7952		
5062264002	**MMW-P-12S**	ASTM D516-90,02	WETA/7952		
5062264003	**MMW-P-12D**	ASTM D516-90,02	WETA/7952		
5062264004	**MMW-P-11S**	ASTM D516-90,02	WETA/7952		
5062264005	**MMW-P-11DR**	ASTM D516-90,02	WETA/7952		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: ( ) of

1548427

Section A Required Client Information:

Company:	Mundell & Assoc.
Address:	116 S. Downey Indpls, IN
Email To:	
Phone:	Fax:
Requested Due Date/TAT:	SAT

Section B Required Project Information:

Report To:	Mark Breting
Copy To:	
Purchase Order No.:	
Project Name:	M1 Plaza
Project Number:	M01046

Section C Invoice Information:

Attention:	Merle Tebbe
Company Name:	Mundell
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	SL VOC 8260	TOC	Nitrate	Nitrite	Sulfate	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MMW-P-04	WT	G			5/1/12	9:34A		5	1	1		3						X	X	X	X	X		-001
2	MMW-P-12S	↓	↓			↓	10:18A		5	1	1		3						↓	↓	↓	↓	↓		-002
3	MMW-P-12D	↓	↓			↓	10:53A		5	1	1		3						↓	↓	↓	↓	↓		-003
4	MMW-P-4S	↓	↓			↓	11:36A		5	1	1		3						↓	↓	↓	↓	↓		-004
5	MMW-P-11DR	↓	↓			↓	12:15P		5	1	1		3						↓	↓	↓	↓	↓		-005
6	Trip Blank	↓				—													X						-006
7	Equip Blank					—													X						-007
8	5/2/12 TMS																								
9																									
10																									
11																									
12																									

5082264

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature]	5/2/12	10:48	[signature]	5/2/12	10:48	2.4	Y	N	Y

WI/Pace
Kee 5-2-12
1159

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Andy Dammeyer

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 5/1/12

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt

Pace Analytical

Client Name: Mundell

Project # 5062264

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Date/Time 5035A kits placed in freezer _____

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other Foam

Thermometer Used 1 2 3 4 6 A B C D E

Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 2.4°C (Corrected, if applicable)

Ice Visible in Sample Containers: ☐ yes ☒ no

Temp should be above freezing to 6°C

Date and Initials of person examining contents: KEE 5-2-12

				Comments:
Chain of Custody Present:	☒Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☒Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☒Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☒Yes	☐No	☐N/A	4.
Short Hold Time Analysis (<72hr):	☒Yes	☐No	☐N/A	5. Nitrates
Rush Turn Around Time Requested:	☐Yes	☒No	☐N/A	6.
Containers Intact:	☒Yes	☐No	☐N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	☒Yes	☐No	☐N/A	8. But received 3 VOA vials for Equip Blank not on COC.
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G	☐Yes	☐No	☒N/A	9. (Circle) HNO3 H2SO4 NaOH HCl
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No	☒N/A	
Headspace in VOA Vials (>6mm):	☒Yes	☐No	☐N/A	10. 1 T. Bi vial
Trip Blank Present:	☒Yes	☐No	☐N/A	11.
Trip Blank Custody Seals Present	☒Yes	☐No	☐N/A	
Project Manager Review				
Samples Arrived within Hold Time:	☒Yes	☐No	☐N/A	12.
Sufficient Volume:	☒Yes	☐No	☐N/A	13.
Correct Containers Used:	☒Yes	☐No	☐N/A	14.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Mark Breting Date/Time: 5/2/12 via email

Comments/ Resolution:

- Run VOC on equipment blank
- Return vials with trisodium phosphate

Project Manager Review: Y Sayer **Date:** 5/2/12

Form F-IN-Q290-rev.04, 28Apr2011

Sample Container Count

Pace Analytical
www.pacelabs.com

CLIENT: Mundell

COC PAGE 1 of 1
COC ID# 1548427

Project # 5062264

40 ml. clear vial pres. w/ trisodium phosphate

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H			Comments
1	3									1		1		2		
2																
3																
4																
5																
6																
7																3 vials for Equip. Blank - not on COC
8																
9																
10																
11																
12																

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved **amber** vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved **clear** vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

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May 09, 2012

Mr. Mark Breting
Mundell & Associates
110 S. Downey Ave.
Indianapolis, IN 46228

RE: Project: MI Plaza M01046
Pace Project No.: 5062320

Dear Mr. Breting:
Enclosed are the analytical results for sample(s) received by the laboratory on May 03, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Sayer

Tina Sayer

tina.sayer@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: MI Plaza M01046
Pace Project No.: 5062320

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana/NELAC Certification #: 04076
Ohio VAP: CL0065
Pennsylvania: 68-04991
West Virginia Certification #: 330

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SAMPLE SUMMARY

Project: MI Plaza M01046
Pace Project No.: 5062320

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5062320001	**MW-171S**	Water	05/02/12 08:49	05/03/12 09:15
5062320002	**MW-171D**	Water	05/02/12 09:50	05/03/12 09:15
5062320003	**MW-170S**	Water	05/02/12 11:32	05/03/12 09:15
5062320004	**MW-167S**	Water	05/02/12 12:20	05/03/12 09:15
5062320005	**MW-167D**	Water	05/02/12 14:17	05/03/12 09:15
5062320006	**MW-169D**	Water	05/02/12 13:28	05/03/12 09:15
5062320007	**MW-168D**	Water	05/02/12 15:02	05/03/12 09:15
5062320008	**MW-170D**	Water	05/02/12 15:54	05/03/12 09:15
5062320009	**Trip Blank**	Water	05/02/12 08:00	05/03/12 09:15

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SAMPLE ANALYTE COUNT

Project: MI Plaza M01046
Pace Project No.: 5062320

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5062320001	**MW-171S**	EPA 8260	JLZ	18
5062320002	**MW-171D**	EPA 8260	JLZ	18
5062320003	**MW-170S**	EPA 8260	JLZ	18
5062320004	**MW-167S**	EPA 8260	JLZ	18
5062320005	**MW-167D**	EPA 8260	JLZ	18
5062320006	**MW-169D**	EPA 8260	JLZ	18
5062320007	**MW-168D**	EPA 8260	JLZ	18
5062320008	**MW-170D**	EPA 8260	JLZ	18
5062320009	**Trip Blank**	EPA 8260	JLZ	18

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5062320

Sample: MW-171S **Lab ID: 5062320001** Collected: 05/02/12 08:49 Received: 05/03/12 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		05/06/12 05:36	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		05/06/12 05:36	56-23-5	
Chloroform	ND	ug/L	5.0	1		05/06/12 05:36	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/06/12 05:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/06/12 05:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/06/12 05:36	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		05/06/12 05:36	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		05/06/12 05:36	75-09-2	
Naphthalene	ND	ug/L	5.0	1		05/06/12 05:36	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		05/06/12 05:36	127-18-4	
Toluene	ND	ug/L	5.0	1		05/06/12 05:36	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/06/12 05:36	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		05/06/12 05:36	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		05/06/12 05:36	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/06/12 05:36	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	92	%.	83-123	1		05/06/12 05:36	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	72-125	1		05/06/12 05:36	460-00-4	
Toluene-d8 (S)	103	%.	81-114	1		05/06/12 05:36	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5062320

Sample: MW-171D **Lab ID: 5062320002** Collected: 05/02/12 09:50 Received: 05/03/12 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		05/06/12 06:08	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		05/06/12 06:08	56-23-5	
Chloroform	ND	ug/L	5.0	1		05/06/12 06:08	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/06/12 06:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/06/12 06:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/06/12 06:08	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		05/06/12 06:08	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		05/06/12 06:08	75-09-2	
Naphthalene	ND	ug/L	5.0	1		05/06/12 06:08	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		05/06/12 06:08	127-18-4	
Toluene	ND	ug/L	5.0	1		05/06/12 06:08	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/06/12 06:08	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		05/06/12 06:08	79-01-6	
Vinyl chloride	**9.5**	ug/L	2.0	1		05/06/12 06:08	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/06/12 06:08	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	92	%.	83-123	1		05/06/12 06:08	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	72-125	1		05/06/12 06:08	460-00-4	
Toluene-d8 (S)	102	%.	81-114	1		05/06/12 06:08	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5062320

Sample: MW-170S **Lab ID: 5062320003** Collected: 05/02/12 11:32 Received: 05/03/12 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		05/06/12 09:21	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		05/06/12 09:21	56-23-5	
Chloroform	ND	ug/L	5.0	1		05/06/12 09:21	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/06/12 09:21	75-35-4	
cis-1,2-Dichloroethene	**6.0**	ug/L	5.0	1		05/06/12 09:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/06/12 09:21	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		05/06/12 09:21	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		05/06/12 09:21	75-09-2	
Naphthalene	ND	ug/L	5.0	1		05/06/12 09:21	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		05/06/12 09:21	127-18-4	
Toluene	ND	ug/L	5.0	1		05/06/12 09:21	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/06/12 09:21	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		05/06/12 09:21	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		05/06/12 09:21	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/06/12 09:21	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	93	%.	83-123	1		05/06/12 09:21	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	72-125	1		05/06/12 09:21	460-00-4	
Toluene-d8 (S)	101	%.	81-114	1		05/06/12 09:21	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5062320

Sample: MW-167S **Lab ID: 5062320004** Collected: 05/02/12 12:20 Received: 05/03/12 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		05/06/12 06:41	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		05/06/12 06:41	56-23-5	
Chloroform	ND	ug/L	5.0	1		05/06/12 06:41	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/06/12 06:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/06/12 06:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/06/12 06:41	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		05/06/12 06:41	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		05/06/12 06:41	75-09-2	
Naphthalene	ND	ug/L	5.0	1		05/06/12 06:41	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		05/06/12 06:41	127-18-4	
Toluene	ND	ug/L	5.0	1		05/06/12 06:41	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/06/12 06:41	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		05/06/12 06:41	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		05/06/12 06:41	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/06/12 06:41	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	90	%.	83-123	1		05/06/12 06:41	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	72-125	1		05/06/12 06:41	460-00-4	
Toluene-d8 (S)	102	%.	81-114	1		05/06/12 06:41	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5062320

Sample: MW-167D **Lab ID: 5062320005** Collected: 05/02/12 14:17 Received: 05/03/12 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		05/06/12 10:25	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		05/06/12 10:25	56-23-5	
Chloroform	ND	ug/L	5.0	1		05/06/12 10:25	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/06/12 10:25	75-35-4	
cis-1,2-Dichloroethene	**377**	ug/L	50.0	10		05/06/12 10:57	156-59-2	
trans-1,2-Dichloroethene	**16.9**	ug/L	5.0	1		05/06/12 10:25	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		05/06/12 10:25	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		05/06/12 10:25	75-09-2	
Naphthalene	ND	ug/L	5.0	1		05/06/12 10:25	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		05/06/12 10:25	127-18-4	
Toluene	ND	ug/L	5.0	1		05/06/12 10:25	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/06/12 10:25	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		05/06/12 10:25	79-01-6	
Vinyl chloride	**21.7**	ug/L	2.0	1		05/06/12 10:25	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/06/12 10:25	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	91	%.	83-123	1		05/06/12 10:25	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	72-125	1		05/06/12 10:25	460-00-4	
Toluene-d8 (S)	101	%.	81-114	1		05/06/12 10:25	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5062320

Sample: MW-169D **Lab ID: 5062320006** Collected: 05/02/12 13:28 Received: 05/03/12 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		05/06/12 07:13	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		05/06/12 07:13	56-23-5	
Chloroform	ND	ug/L	5.0	1		05/06/12 07:13	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/06/12 07:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/06/12 07:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/06/12 07:13	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		05/06/12 07:13	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		05/06/12 07:13	75-09-2	
Naphthalene	ND	ug/L	5.0	1		05/06/12 07:13	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		05/06/12 07:13	127-18-4	
Toluene	ND	ug/L	5.0	1		05/06/12 07:13	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/06/12 07:13	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		05/06/12 07:13	79-01-6	
Vinyl chloride	**27.1**	ug/L	2.0	1		05/06/12 07:13	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/06/12 07:13	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	91	%.	83-123	1		05/06/12 07:13	1868-53-7	
4-Bromofluorobenzene (S)	95	%.	72-125	1		05/06/12 07:13	460-00-4	
Toluene-d8 (S)	102	%.	81-114	1		05/06/12 07:13	2037-26-5	

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Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5062320

Sample: MW-168D **Lab ID: 5062320007** Collected: 05/02/12 15:02 Received: 05/03/12 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		05/06/12 07:45	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		05/06/12 07:45	56-23-5	
Chloroform	ND	ug/L	5.0	1		05/06/12 07:45	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/06/12 07:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/06/12 07:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/06/12 07:45	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		05/06/12 07:45	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		05/06/12 07:45	75-09-2	
Naphthalene	ND	ug/L	5.0	1		05/06/12 07:45	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		05/06/12 07:45	127-18-4	
Toluene	ND	ug/L	5.0	1		05/06/12 07:45	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/06/12 07:45	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		05/06/12 07:45	79-01-6	
Vinyl chloride	**130**	ug/L	2.0	1		05/06/12 07:45	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/06/12 07:45	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	92	%.	83-123	1		05/06/12 07:45	1868-53-7	
4-Bromofluorobenzene (S)	95	%.	72-125	1		05/06/12 07:45	460-00-4	
Toluene-d8 (S)	100	%.	81-114	1		05/06/12 07:45	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5062320

Sample: MW-170D **Lab ID: 5062320008** Collected: 05/02/12 15:54 Received: 05/03/12 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		05/06/12 08:17	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		05/06/12 08:17	56-23-5	
Chloroform	ND	ug/L	5.0	1		05/06/12 08:17	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/06/12 08:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/06/12 08:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/06/12 08:17	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		05/06/12 08:17	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		05/06/12 08:17	75-09-2	
Naphthalene	ND	ug/L	5.0	1		05/06/12 08:17	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		05/06/12 08:17	127-18-4	
Toluene	ND	ug/L	5.0	1		05/06/12 08:17	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/06/12 08:17	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		05/06/12 08:17	79-01-6	
Vinyl chloride	**91.0**	ug/L	2.0	1		05/06/12 08:17	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/06/12 08:17	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	91	%.	83-123	1		05/06/12 08:17	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	72-125	1		05/06/12 08:17	460-00-4	
Toluene-d8 (S)	101	%.	81-114	1		05/06/12 08:17	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5062320

Sample: Trip Blank **Lab ID: 5062320009** Collected: 05/02/12 08:00 Received: 05/03/12 09:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		05/06/12 08:49	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		05/06/12 08:49	56-23-5	
Chloroform	ND	ug/L	5.0	1		05/06/12 08:49	67-66-3	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/06/12 08:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		05/06/12 08:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/06/12 08:49	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		05/06/12 08:49	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		05/06/12 08:49	75-09-2	
Naphthalene	ND	ug/L	5.0	1		05/06/12 08:49	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		05/06/12 08:49	127-18-4	
Toluene	ND	ug/L	5.0	1		05/06/12 08:49	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/06/12 08:49	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		05/06/12 08:49	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		05/06/12 08:49	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		05/06/12 08:49	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	91	%.	83-123	1		05/06/12 08:49	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	72-125	1		05/06/12 08:49	460-00-4	
Toluene-d8 (S)	105	%.	81-114	1		05/06/12 08:49	2037-26-5	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5062320

QC Batch: MSV/41897 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5062320001, 5062320002, 5062320003, 5062320004, 5062320005, 5062320006, 5062320007, 5062320008, 5062320009

METHOD BLANK: 730430 Matrix: Water
Associated Lab Samples: 5062320001, 5062320002, 5062320003, 5062320004, 5062320005, 5062320006, 5062320007, 5062320008, 5062320009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	05/06/12 01:17	
1,1-Dichloroethene	ug/L	ND	5.0	05/06/12 01:17	
Benzene	ug/L	ND	5.0	05/06/12 01:17	
Carbon tetrachloride	ug/L	ND	5.0	05/06/12 01:17	
Chloroform	ug/L	ND	5.0	05/06/12 01:17	
cis-1,2-Dichloroethene	ug/L	ND	5.0	05/06/12 01:17	
Ethylbenzene	ug/L	ND	5.0	05/06/12 01:17	
Methylene Chloride	ug/L	ND	5.0	05/06/12 01:17	
Naphthalene	ug/L	ND	5.0	05/06/12 01:17	
Tetrachloroethene	ug/L	ND	5.0	05/06/12 01:17	
Toluene	ug/L	ND	5.0	05/06/12 01:17	
trans-1,2-Dichloroethene	ug/L	ND	5.0	05/06/12 01:17	
Trichloroethene	ug/L	ND	5.0	05/06/12 01:17	
Vinyl chloride	ug/L	ND	2.0	05/06/12 01:17	
Xylene (Total)	ug/L	ND	10.0	05/06/12 01:17	
4-Bromofluorobenzene (S)	%.	97	72-125	05/06/12 01:17	
Dibromofluoromethane (S)	%.	93	83-123	05/06/12 01:17	
Toluene-d8 (S)	%.	100	81-114	05/06/12 01:17	

LABORATORY CONTROL SAMPLE: 730431

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	44.0	88	69-126	
1,1-Dichloroethene	ug/L	50	52.8	106	75-145	
Benzene	ug/L	50	46.5	93	76-123	
Carbon tetrachloride	ug/L	50	46.1	92	65-125	
Chloroform	ug/L	50	47.3	95	73-122	
cis-1,2-Dichloroethene	ug/L	50	46.2	92	79-129	
Ethylbenzene	ug/L	50	46.1	92	75-120	
Methylene Chloride	ug/L	50	53.3	107	61-138	
Naphthalene	ug/L	50	46.3	93	62-130	
Tetrachloroethene	ug/L	50	43.7	87	57-125	
Toluene	ug/L	50	46.2	92	72-124	
trans-1,2-Dichloroethene	ug/L	50	44.7	89	71-145	
Trichloroethene	ug/L	50	48.8	98	77-122	
Vinyl chloride	ug/L	50	56.6	113	61-146	
Xylene (Total)	ug/L	150	144	96	72-126	
4-Bromofluorobenzene (S)	%.			98	72-125	
Dibromofluoromethane (S)	%.			95	83-123	
Toluene-d8 (S)	%.			101	81-114	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5062320

MATRIX SPIKE SAMPLE: 730432

Parameter	Units	5062320003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	50	42.1	84	37-136	
1,1-Dichloroethene	ug/L	ND	50	55.8	112	54-152	
Benzene	ug/L	ND	50	45.3	91	52-134	
Carbon tetrachloride	ug/L	ND	50	43.7	87	26-136	
Chloroform	ug/L	ND	50	46.2	92	50-134	
cis-1,2-Dichloroethene	ug/L	6.0	50	50.3	89	48-145	
Ethylbenzene	ug/L	ND	50	44.5	89	29-132	
Methylene Chloride	ug/L	ND	50	54.4	109	47-141	
Naphthalene	ug/L	ND	50	39.9	80	40-124	
Tetrachloroethene	ug/L	ND	50	40.5	81	30-124	
Toluene	ug/L	ND	50	44.7	89	42-130	
trans-1,2-Dichloroethene	ug/L	ND	50	45.2	90	48-144	
Trichloroethene	ug/L	ND	50	44.7	89	44-130	
Vinyl chloride	ug/L	ND	50	59.7	119	45-159	
Xylene (Total)	ug/L	ND	150	135	90	29-131	
4-Bromofluorobenzene (S)	%.				99	72-125	
Dibromofluoromethane (S)	%.				96	83-123	
Toluene-d8 (S)	%.				101	81-114	

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QUALIFIERS

Project: MI Plaza M01046
Pace Project No.: 5062320

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MI Plaza M01046
Pace Project No.: 5062320

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5062320001	**MW-171S**	EPA 8260	MSV/41897		
5062320002	**MW-171D**	EPA 8260	MSV/41897		
5062320003	**MW-170S**	EPA 8260	MSV/41897		
5062320004	**MW-167S**	EPA 8260	MSV/41897		
5062320005	**MW-167D**	EPA 8260	MSV/41897		
5062320006	**MW-169D**	EPA 8260	MSV/41897		
5062320007	**MW-168D**	EPA 8260	MSV/41897		
5062320008	**MW-170D**	EPA 8260	MSV/41897		
5062320009	**Trip Blank**	EPA 8260	MSV/41897		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

✓ky

Page: 1 of 1

1337909

Section A Required Client Information:

Company:	Mundell & Assoc.
Address:	110 S. Downey ave Indpls, IN
Email To:	
Phone:	317-630-9060
Fax:	
Requested Due Date/TAT:	SAT

Section B Required Project Information:

Report To:	Mark Breting
Copy To:	
Purchase Order No.:	
Project Name:	M1 Plaza
Project Number:	M01046

Section C Invoice Information:

Attention:	Marle Tebbe
Company Name:	Mundell
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	S.L. Voc's	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-171S	WT	G			5/2/12	8:49A		3				3						X		-001
2	MW-171D	↓	↓			↓	9:50A		3				3						↓		-002
3	MW-170S	↓	↓			↓	11:32A		3				3						↓		-003
4	MW-167S	↓	↓			↓	12:20P		3				3						↓		-004
5	MW-167D	↓	↓			↓	2:17P		3				3						↓		-005
6	MW-169D	↓	↓			↓	1:28P		3				3						↓		-006
7	MW-168D	↓	↓			↓	3:02P		3				3						↓		-007
8	MW-170D	↓	↓			↓	3:54P		3				3						↓		-008
9	Trip Blank	↓							3				3						↓		-009
10																					
11																					
12																					

5062320

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature]	5/3/12	0915	Kathy Eck / Pace	5/3/12	0915	4.6	Y	N	Y

ORIGINAL Date - 5/3/12
EW
Time - 0922

WI / Client

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Andy Dammeyer

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 5/2/12

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt

Pace Analytical

Client Name: Mundell & Assoc Project # 50623220

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Date/Time 5035A kits placed in freezer _____

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other Foam

Thermometer Used 1 2 3 4 (6) A B C D E Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature (Corrected, if applicable) 4.6°C Ice Visible in Sample Containers: ☐ yes ☐ no

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 5-3-12, EW

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	5.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	6.
Containers Intact:	☑Yes	☐No	☐N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	☑Yes	☐No	☐N/A	8.
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G	☐Yes	☐No	☑N/A	9. (Circle) HNO3 H2SO4 NaOH HCl
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No	☑N/A	
Headspace in VOA Vials (>6mm):	☑Yes	☐No	☐N/A	10. 1 VOA vial from MW-170S sample & 1 Trip Blank
Trip Blank Present:	☑Yes	☐No	☐N/A	11.
Trip Blank Custody Seals Present	☑Yes	☐No	☐N/A	
Project Manager Review				
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	12.
Sufficient Volume:	☑Yes	☐No	☐N/A	13.
Correct Containers Used:	☑Yes	☐No	☐N/A	14.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [signature] **Date:** 5/3/12

Form F-IN-Q290-rev.04, 28Apr2011

Sample Container Count

CLIENT: Mundell & Associates

Pace Analytical
www.pacelabs.com

COC PAGE ____ of ____
COC ID# _____

Project # 5062320

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R 4 / 6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H			Comments
1	3															
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved **amber** vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved **clear** vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

Microseeps, Inc
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May 15, 2012

Merle Tebbe
Mundell & Associates, Inc.
110 South Downey Ave.
Indianapolis, IN 46219

RE: **MI PLAZA / M01046**
Microseeps Workorder: 5119

Dear Merle Tebbe:

Enclosed are the analytical results for sample(s) received by the laboratory on Tuesday, May 01, 2012. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Julianne C. Sproull RJR 5-16-12

Julianne Sproull 05/15/2012
jsproull@microseeps.com

Enclosures

As a valued client we would appreciate your comments on our service.
Please email info@microseeps.com.

Total Number of Pages 34

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LABORATORY ACCREDITATIONS & CERTIFICATIONS

Accreditor:	Pennsylvania Department of Environmental Protection, Bureau of Laboratories
Accreditation ID:	02-00538
Scope:	NELAP Non-Potable Water and Solid & Hazardous Waste
Accreditor:	NELAP: State of Florida, Department of Health, Bureau of Laboratories
Accreditation ID:	E87832
Scope:	Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA)
Accreditor:	South Carolina Department of Health and Environmental Control, Office of Environmental Laboratory Certification
Accreditation ID:	89009003
Scope:	Clean Water Act (CWA); Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: State of Louisiana, Department of Environmental Quality
Accreditation ID:	04104
Scope:	Solid and Chemical Materials; Non-Potable Water
Accreditor:	NELAP: New Jersey, Department of Environmental Protection
Accreditation ID:	PA026
Scope:	Non-Potable Water; Solid and Chemical Materials
Accreditor:	NELAP: New York, Department of Health Wadsworth Center
Accreditation ID:	11815
Scope:	Non-Potable Water; Solid and Hazardous Waste
Accreditor:	State of Connecticut, Department of Public Health, Division of Environmental Health
Accreditation ID:	PH-0263
Scope:	Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: Texas, Commission on Environmental Quality
Accreditation ID:	T104704453-09-TX
Scope:	Non-Potable Water
Accreditor:	State of New Hampshire
Accreditation ID:	299409
Scope:	Non-potable water
Accreditor:	State of Georgia
Accreditation ID:	Chapter 391-3-26
Scope:	As per the Georgia EPD Rules and Regulations for Commercial Laboratories, Microseeps is accredited by the Pennsylvania Department of Environmental Protection Bureau of Laboratories under the National Environmental Laboratory Approval Program (NELAC).

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SAMPLE SUMMARY

Workorder: 5119 MI PLAZA / M01046

Lab ID	Sample ID	Matrix	Date Collected	Date Received
51190001	MMW-C-01	Water	4/24/2012 13:01	5/1/2012 11:45
51190002	MMW-10S	Water	4/24/2012 13:46	5/1/2012 11:45
51190003	MMW-9S	Water	4/25/2012 08:09	5/1/2012 11:45
51190004	MMW-9S MS	Water	4/25/2012 08:09	5/1/2012 11:45
51190005	MMW-9S MSD	Water	4/25/2012 08:09	5/1/2012 11:45
51190006	MMW-1S	Water	4/25/2012 09:23	5/1/2012 11:45
51190007	MMW-8S	Water	4/25/2012 10:04	5/1/2012 11:45
51190008	MMW-P-03S	Water	4/25/2012 10:51	5/1/2012 11:45
51190009	DUP	Water	4/25/2012 00:00	5/1/2012 11:45
51190010	MMW-P-03D	Water	4/25/2012 11:24	5/1/2012 11:45
51190011	MMW-P-02	Water	4/25/2012 12:36	5/1/2012 11:45
51190012	MMW-P-05	Water	4/25/2012 13:15	5/1/2012 11:45
51190013	MMW-P-10S	Water	4/25/2012 13:54	5/1/2012 11:45
51190014	MMW-P-10D	Water	4/25/2012 14:37	5/1/2012 11:45
51190015	MMW-P-08	Water	4/25/2012 15:04	5/1/2012 11:45
51190016	MMW-P-07	Water	4/25/2012 15:30	5/1/2012 11:45
51190017	MMW-P-01	Water	4/25/2012 15:56	5/1/2012 11:45
51190018	MMW-P-06	Water	4/26/2012 08:33	5/1/2012 11:45

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PROJECT SUMMARY

Workorder: 5119 MI PLAZA / M01046

Batch Comments

Batch: DISG/2121 - AM20GAX Water QC

The matrix spike and/or matrix spike duplicate, recovery or relative percent difference; accuracy influenced by the concentration of the reference sample; 51190003. Analyte Methane. Batch acceptance based on laboratory control sample recovery.

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ANALYTICAL RESULTS

Workorder: 5119 MI PLAZA / M01046

Lab ID: **51190001** Date Received: 5/1/2012 11:45 Matrix: Water

Sample ID: **MMW-C-01** Date Collected: 4/24/2012 13:01

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	**12000**	ug/l	0.10	0.015	1			5/7/2012 08:50	BW	
Ethane	**0.20**	ug/l	0.025	0.0010	1			5/7/2012 08:50	BW	
Ethene	**24**	ug/l	0.025	0.0060	1			5/7/2012 08:50	BW	
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	**0.11**	mg/l	0.10	0.010	1			5/8/2012 17:26	KB	
Acetic Acid	**0.034J**	mg/l	0.070	0.0060	1			5/8/2012 17:26	KB	
Propionic Acid	**0.050 U**	mg/l	0.050	0.0070	1			5/8/2012 17:26	KB	
Butyric Acid	**0.050 U**	mg/l	0.050	0.0040	1			5/8/2012 17:26	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.033	1			5/8/2012 17:26	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.044	1			5/8/2012 17:26	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.012	1			5/8/2012 17:26	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			5/8/2012 17:26	KB	
Hexanoic Acid	**0.27**	mg/l	0.050	0.0060	1			5/8/2012 17:26	KB	

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ANALYTICAL RESULTS

Workorder: 5119 MI PLAZA / M01046

Lab ID: **51190002** Date Received: 5/1/2012 11:45 Matrix: Water

Sample ID: **MMW-10S** Date Collected: 4/24/2012 13:46

Parameters	Results	Units	RDL	MDL	DF Prepared	By	Analyzed	By	Qual
RISK - MICR									
Analysis Desc: AM20GAX		Analytical Method: AM20GAX							
Methane	**12000**	ug/l	0.10	0.015	1		5/7/2012 08:59	BW	
Ethane	**0.15**	ug/l	0.025	0.0010	1		5/7/2012 08:59	BW	
Ethene	**32**	ug/l	0.025	0.0060	1		5/7/2012 08:59	BW	
EDonors - MICR									
Analysis Desc: AM23G		Analytical Method: AM23G							
Lactic Acid	**0.090J**	mg/l	0.10	0.010	1		5/8/2012 18:08	KB	
Acetic Acid	**0.50**	mg/l	0.070	0.0060	1		5/8/2012 18:08	KB	
Propionic Acid	**0.082**	mg/l	0.050	0.0070	1		5/8/2012 18:08	KB	
Butyric Acid	**0.050 U**	mg/l	0.050	0.0040	1		5/8/2012 18:08	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.033	1		5/8/2012 18:08	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.044	1		5/8/2012 18:08	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.012	1		5/8/2012 18:08	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1		5/8/2012 18:08	KB	
Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1		5/8/2012 18:08	KB	

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ANALYTICAL RESULTS

Workorder: 5119 MI PLAZA / M01046

Lab ID: **51190003** Date Received: 5/1/2012 11:45 Matrix: Water

Sample ID: **MMW-9S** Date Collected: 4/25/2012 08:09

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX		Analytical Method: AM20GAX								
Methane	**7400**	ug/l	0.10	0.015	1			5/7/2012 09:09	BW	
Ethane	**2.0**	ug/l	0.025	0.0010	1			5/7/2012 09:09	BW	
Ethene	**36**	ug/l	0.025	0.0060	1			5/7/2012 09:09	BW	
EDonors - MICR										
Analysis Desc: AM23G		Analytical Method: AM23G								
Lactic Acid	**0.13**	mg/l	0.10	0.010	1			5/8/2012 18:50	KB	
Acetic Acid	**0.052J**	mg/l	0.070	0.0060	1			5/8/2012 18:50	KB	
Propionic Acid	**0.016J**	mg/l	0.050	0.0070	1			5/8/2012 18:50	KB	
Butyric Acid	**0.050 U**	mg/l	0.050	0.0040	1			5/8/2012 18:50	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.033	1			5/8/2012 18:50	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.044	1			5/8/2012 18:50	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.012	1			5/8/2012 18:50	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			5/8/2012 18:50	KB	
Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			5/8/2012 18:50	KB	

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ANALYTICAL RESULTS

Workorder: 5119 MI PLAZA / M01046

Lab ID: **51190004** Date Received: 5/1/2012 11:45 Matrix: Water
Sample ID: **MMW-9S MS** Date Collected: 4/25/2012 08:09

Parameters	Results	Units	RDL	MDL	DF Prepared	By	Analyzed	By	Qual
RISK - MICR									
Analysis Desc: AM20GAX			Analytical Method: AM20GAX						
Methane	**8900**	ug/l	0.10	0.015	1		5/7/2012 09:23	BW	
Ethane	**43**	ug/l	0.025	0.0010	1		5/7/2012 09:23	BW	
Ethene	**78**	ug/l	0.025	0.0060	1		5/7/2012 09:23	BW	
EDonors - MICR									
Analysis Desc: AM23G			Analytical Method: AM23G						
Lactic Acid	**2.1**	mg/l	0.10	0.010	1		5/8/2012 19:33	KB	
Acetic Acid	**2.1**	mg/l	0.070	0.0060	1		5/8/2012 19:33	KB	
Propionic Acid	**2.0**	mg/l	0.050	0.0070	1		5/8/2012 19:33	KB	
Butyric Acid	**2.0**	mg/l	0.050	0.0040	1		5/8/2012 19:33	KB	
Pyruvic Acid	**2.1**	mg/l	0.15	0.033	1		5/8/2012 19:33	KB	
i-Pentanoic Acid	**2.0**	mg/l	0.15	0.044	1		5/8/2012 19:33	KB	
Pentanoic Acid	**1.9**	mg/l	0.070	0.012	1		5/8/2012 19:33	KB	
i-Hexanoic Acid	**2.2**	mg/l	0.050	0.0060	1		5/8/2012 19:33	KB	
Hexanoic Acid	**2.0**	mg/l	0.050	0.0060	1		5/8/2012 19:33	KB	

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ANALYTICAL RESULTS

Workorder: 5119 MI PLAZA / M01046

Lab ID: **51190005** Date Received: 5/1/2012 11:45 Matrix: Water

Sample ID: **MMW-9S MSD** Date Collected: 4/25/2012 08:09

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	**8800**	ug/l	0.10	0.015	1			5/7/2012 09:35	BW	
Ethane	**43**	ug/l	0.025	0.0010	1			5/7/2012 09:35	BW	
Ethene	**78**	ug/l	0.025	0.0060	1			5/7/2012 09:35	BW	
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	**2.1**	mg/l	0.10	0.010	1			5/8/2012 20:15	KB	
Acetic Acid	**2.0**	mg/l	0.070	0.0060	1			5/8/2012 20:15	KB	
Propionic Acid	**2.0**	mg/l	0.050	0.0070	1			5/8/2012 20:15	KB	
Butyric Acid	**2.0**	mg/l	0.050	0.0040	1			5/8/2012 20:15	KB	
Pyruvic Acid	**2.0**	mg/l	0.15	0.033	1			5/8/2012 20:15	KB	
i-Pentanoic Acid	**2.0**	mg/l	0.15	0.044	1			5/8/2012 20:15	KB	
Pentanoic Acid	**2.0**	mg/l	0.070	0.012	1			5/8/2012 20:15	KB	
i-Hexanoic Acid	**2.2**	mg/l	0.050	0.0060	1			5/8/2012 20:15	KB	
Hexanoic Acid	**2.0**	mg/l	0.050	0.0060	1			5/8/2012 20:15	KB	

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ANALYTICAL RESULTS

Workorder: 5119 MI PLAZA / M01046

Lab ID: **51190006** Date Received: 5/1/2012 11:45 Matrix: Water
Sample ID: **MMW-1S** Date Collected: 4/25/2012 09:23

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX		Analytical Method: AM20GAX								
Methane	**9000**	ug/l	0.10	0.015	1			5/7/2012 09:45	BW	
Ethane	**0.011J**	ug/l	0.025	0.0010	1			5/7/2012 09:45	BW	
Ethene	**2.5**	ug/l	0.025	0.0060	1			5/7/2012 09:45	BW	
EDonors - MICR										
Analysis Desc: AM23G		Analytical Method: AM23G								
Lactic Acid	**0.14**	mg/l	0.10	0.010	1			5/8/2012 20:57	KB	
Acetic Acid	**0.042J**	mg/l	0.070	0.0060	1			5/8/2012 20:57	KB	
Propionic Acid	**0.050 U**	mg/l	0.050	0.0070	1			5/8/2012 20:57	KB	
Butyric Acid	**0.050 U**	mg/l	0.050	0.0040	1			5/8/2012 20:57	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.033	1			5/8/2012 20:57	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.044	1			5/8/2012 20:57	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.012	1			5/8/2012 20:57	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			5/8/2012 20:57	KB	
Hexanoic Acid	**0.91**	mg/l	0.050	0.0060	1			5/8/2012 20:57	KB	

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ANALYTICAL RESULTS

Workorder: 5119 MI PLAZA / M01046

Lab ID: **51190007** Date Received: 5/1/2012 11:45 Matrix: Water

Sample ID: **MMW-8S** Date Collected: 4/25/2012 10:04

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	**12000**	ug/l	0.10	0.015	1			5/7/2012 09:58	BW	
Ethane	**0.094**	ug/l	0.025	0.0010	1			5/7/2012 09:58	BW	
Ethene	**28**	ug/l	0.025	0.0060	1			5/7/2012 09:58	BW	
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	**0.096J**	mg/l	0.10	0.010	1			5/8/2012 21:39	KB	
Acetic Acid	**0.037J**	mg/l	0.070	0.0060	1			5/8/2012 21:39	KB	
Propionic Acid	**0.050 U**	mg/l	0.050	0.0070	1			5/8/2012 21:39	KB	
Butyric Acid	**0.054**	mg/l	0.050	0.0040	1			5/8/2012 21:39	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.033	1			5/8/2012 21:39	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.044	1			5/8/2012 21:39	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.012	1			5/8/2012 21:39	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			5/8/2012 21:39	KB	
Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			5/8/2012 21:39	KB	

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ANALYTICAL RESULTS

Workorder: 5119 MI PLAZA / M01046

Lab ID: **51190008** Date Received: 5/1/2012 11:45 Matrix: Water
Sample ID: **MMW-P-03S** Date Collected: 4/25/2012 10:51

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	**14000**	ug/l	0.10	0.015	1			5/7/2012 10:11	BW	
Ethane	**0.81**	ug/l	0.025	0.0010	1			5/7/2012 10:11	BW	
Ethene	**670**	ug/l	0.025	0.0060	1			5/7/2012 10:11	BW	
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	**0.14**	mg/l	0.10	0.010	1			5/8/2012 22:21	KB	
Acetic Acid	**0.078**	mg/l	0.070	0.0060	1			5/8/2012 22:21	KB	
Propionic Acid	**0.050 U**	mg/l	0.050	0.0070	1			5/8/2012 22:21	KB	
Butyric Acid	**0.050 U**	mg/l	0.050	0.0040	1			5/8/2012 22:21	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.033	1			5/8/2012 22:21	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.044	1			5/8/2012 22:21	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.012	1			5/8/2012 22:21	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			5/8/2012 22:21	KB	
Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			5/8/2012 22:21	KB	

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ANALYTICAL RESULTS

Workorder: 5119 MI PLAZA / M01046

Lab ID: **51190009** Date Received: 5/1/2012 11:45 Matrix: Water
Sample ID: **DUP** Date Collected: 4/25/2012 00:00

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	**13000**	ug/l	0.10	0.015	1			5/7/2012 10:21	BW	
Ethane	**0.74**	ug/l	0.025	0.0010	1			5/7/2012 10:21	BW	
Ethene	**620**	ug/l	0.025	0.0060	1			5/7/2012 10:21	BW	
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	**0.11**	mg/l	0.10	0.010	1			5/8/2012 23:03	KB	
Acetic Acid	**0.079**	mg/l	0.070	0.0060	1			5/8/2012 23:03	KB	
Propionic Acid	**0.050 U**	mg/l	0.050	0.0070	1			5/8/2012 23:03	KB	
Butyric Acid	**0.050 U**	mg/l	0.050	0.0040	1			5/8/2012 23:03	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.033	1			5/8/2012 23:03	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.044	1			5/8/2012 23:03	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.012	1			5/8/2012 23:03	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			5/8/2012 23:03	KB	
Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			5/8/2012 23:03	KB	

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ANALYTICAL RESULTS

Workorder: 5119 MI PLAZA / M01046

Lab ID: **51190010** Date Received: 5/1/2012 11:45 Matrix: Water

Sample ID: **MMW-P-03D** Date Collected: 4/25/2012 11:24

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX		Analytical Method: AM20GAX								
Methane	**24000**	ug/l	0.10	0.015	1			5/7/2012 10:31	BW	
Ethane	**8.4**	ug/l	0.025	0.0010	1			5/7/2012 10:31	BW	
Ethene	**2400**	ug/l	0.025	0.0060	1			5/7/2012 10:31	BW	
EDonors - MICR										
Analysis Desc: AM23G		Analytical Method: AM23G								
Lactic Acid	**1.2**	mg/l	1.0	0.10	10			5/11/2012 05:47	KB	
Acetic Acid	**52**	mg/l	0.70	0.060	10			5/11/2012 05:47	KB	
Propionic Acid	**1.0**	mg/l	0.50	0.070	10			5/11/2012 05:47	KB	
Butyric Acid	**0.68**	mg/l	0.050	0.0040	1			5/8/2012 23:45	KB	
Pyruvic Acid	**0.055J**	mg/l	0.15	0.033	1			5/8/2012 23:45	KB	
i-Pentanoic Acid	**0.22**	mg/l	0.15	0.044	1			5/8/2012 23:45	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.012	1			5/8/2012 23:45	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			5/8/2012 23:45	KB	
Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			5/8/2012 23:45	KB	

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ANALYTICAL RESULTS

Workorder: 5119 MI PLAZA / M01046

Lab ID: **51190011** Date Received: 5/1/2012 11:45 Matrix: Water

Sample ID: **MMW-P-02** Date Collected: 4/25/2012 12:36

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	**13000**	ug/l	0.10	0.015	1			5/7/2012 11:22	BW	
Ethane	**1.6**	ug/l	0.025	0.0010	1			5/7/2012 11:22	BW	
Ethene	**180**	ug/l	0.025	0.0060	1			5/7/2012 11:22	BW	
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	**0.16**	mg/l	0.10	0.010	1			5/9/2012 00:27	KB	
Acetic Acid	**0.039J**	mg/l	0.070	0.0060	1			5/9/2012 00:27	KB	
Propionic Acid	**0.050 U**	mg/l	0.050	0.0070	1			5/9/2012 00:27	KB	
Butyric Acid	**0.050 U**	mg/l	0.050	0.0040	1			5/9/2012 00:27	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.033	1			5/9/2012 00:27	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.044	1			5/9/2012 00:27	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.012	1			5/9/2012 00:27	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			5/9/2012 00:27	KB	
Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			5/9/2012 00:27	KB	

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ANALYTICAL RESULTS

Workorder: 5119 MI PLAZA / M01046

Lab ID: **51190012** Date Received: 5/1/2012 11:45 Matrix: Water

Sample ID: **MMW-P-05** Date Collected: 4/25/2012 13:15

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX		Analytical Method: AM20GAX								
Methane	**7200**	ug/l	0.10	0.015	1			5/7/2012 11:34	BW	
Ethane	**0.20**	ug/l	0.025	0.0010	1			5/7/2012 11:34	BW	
Ethene	**51**	ug/l	0.025	0.0060	1			5/7/2012 11:34	BW	
EDonors - MICR										
Analysis Desc: AM23G		Analytical Method: AM23G								
Lactic Acid	**0.15**	mg/l	0.10	0.010	1			5/9/2012 01:09	KB	
Acetic Acid	**0.30**	mg/l	0.070	0.0060	1			5/9/2012 01:09	KB	
Propionic Acid	**0.034J**	mg/l	0.050	0.0070	1			5/9/2012 01:09	KB	
Butyric Acid	**0.050 U**	mg/l	0.050	0.0040	1			5/9/2012 01:09	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.033	1			5/9/2012 01:09	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.044	1			5/9/2012 01:09	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.012	1			5/9/2012 01:09	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			5/9/2012 01:09	KB	
Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			5/9/2012 01:09	KB	

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ANALYTICAL RESULTS

Workorder: 5119 MI PLAZA / M01046

Lab ID: **51190013** Date Received: 5/1/2012 11:45 Matrix: Water
Sample ID: **MMW-P-10S** Date Collected: 4/25/2012 13:54

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	**10000**	ug/l	0.10	0.015	1			5/7/2012 11:47	BW	
Ethane	**4.0**	ug/l	0.025	0.0010	1			5/7/2012 11:47	BW	
Ethene	**30**	ug/l	0.025	0.0060	1			5/7/2012 11:47	BW	
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	**0.092J**	mg/l	0.10	0.010	1			5/9/2012 01:52	KB	
Acetic Acid	**0.075**	mg/l	0.070	0.0060	1			5/9/2012 01:52	KB	
Propionic Acid	**0.050 U**	mg/l	0.050	0.0070	1			5/9/2012 01:52	KB	
Butyric Acid	**0.050 U**	mg/l	0.050	0.0040	1			5/9/2012 01:52	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.033	1			5/9/2012 01:52	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.044	1			5/9/2012 01:52	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.012	1			5/9/2012 01:52	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			5/9/2012 01:52	KB	
Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			5/9/2012 01:52	KB	

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ANALYTICAL RESULTS

Workorder: 5119 MI PLAZA / M01046

Lab ID: **51190014** Date Received: 5/1/2012 11:45 Matrix: Water

Sample ID: **MMW-P-10D** Date Collected: 4/25/2012 14:37

Parameters	Results	Units	RDL	MDL	DF Prepared	By	Analyzed	By	Qual
RISK - MICR									
Analysis Desc: AM20GAX		Analytical Method: AM20GAX							
Methane	**23000**	ug/l	0.10	0.015	1		5/7/2012 12:02	BW	
Ethane	**1.7**	ug/l	0.025	0.0010	1		5/7/2012 12:02	BW	
Ethene	**190**	ug/l	0.025	0.0060	1		5/7/2012 12:02	BW	
EDonors - MICR									
Analysis Desc: AM23G		Analytical Method: AM23G							
Lactic Acid	**0.17**	mg/l	0.10	0.010	1		5/9/2012 02:34	KB	
Acetic Acid	**0.036J**	mg/l	0.070	0.0060	1		5/9/2012 02:34	KB	
Propionic Acid	**0.050 U**	mg/l	0.050	0.0070	1		5/9/2012 02:34	KB	
Butyric Acid	**0.050 U**	mg/l	0.050	0.0040	1		5/9/2012 02:34	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.033	1		5/9/2012 02:34	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.044	1		5/9/2012 02:34	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.012	1		5/9/2012 02:34	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1		5/9/2012 02:34	KB	
Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1		5/9/2012 02:34	KB	

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ANALYTICAL RESULTS

Workorder: 5119 MI PLAZA / M01046

Lab ID: **51190015** Date Received: 5/1/2012 11:45 Matrix: Water

Sample ID: **MMW-P-08** Date Collected: 4/25/2012 15:04

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	**12000**	ug/l	0.10	0.015	1			5/7/2012 12:15	BW	
Ethane	**11**	ug/l	0.025	0.0010	1			5/7/2012 12:15	BW	
Ethene	**170**	ug/l	0.025	0.0060	1			5/7/2012 12:15	BW	
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	**0.12**	mg/l	0.10	0.010	1			5/9/2012 03:16	KB	
Acetic Acid	**0.056J**	mg/l	0.070	0.0060	1			5/9/2012 03:16	KB	
Propionic Acid	**0.050 U**	mg/l	0.050	0.0070	1			5/9/2012 03:16	KB	
Butyric Acid	**0.050 U**	mg/l	0.050	0.0040	1			5/9/2012 03:16	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.033	1			5/9/2012 03:16	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.044	1			5/9/2012 03:16	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.012	1			5/9/2012 03:16	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			5/9/2012 03:16	KB	
Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			5/9/2012 03:16	KB	

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ANALYTICAL RESULTS

Workorder: 5119 MI PLAZA / M01046

Lab ID: **51190016** Date Received: 5/1/2012 11:45 Matrix: Water

Sample ID: **MMW-P-07** Date Collected: 4/25/2012 15:30

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	**8900**	ug/l	0.10	0.015	1			5/7/2012 12:26	BW	
Ethane	**0.28**	ug/l	0.025	0.0010	1			5/7/2012 12:26	BW	
Ethene	**360**	ug/l	0.025	0.0060	1			5/7/2012 12:26	BW	
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	**0.051J**	mg/l	0.10	0.010	1			5/9/2012 03:58	KB	
Acetic Acid	**0.020J**	mg/l	0.070	0.0060	1			5/9/2012 03:58	KB	
Propionic Acid	**0.050 U**	mg/l	0.050	0.0070	1			5/9/2012 03:58	KB	
Butyric Acid	**0.050 U**	mg/l	0.050	0.0040	1			5/9/2012 03:58	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.033	1			5/9/2012 03:58	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.044	1			5/9/2012 03:58	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.012	1			5/9/2012 03:58	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			5/9/2012 03:58	KB	
Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			5/9/2012 03:58	KB	

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ANALYTICAL RESULTS

Workorder: 5119 MI PLAZA / M01046

Lab ID: **51190017** Date Received: 5/1/2012 11:45 Matrix: Water

Sample ID: **MMW-P-01** Date Collected: 4/25/2012 15:56

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	**13000**	ug/l	0.10	0.015	1			5/7/2012 12:36	BW	
Ethane	**0.60**	ug/l	0.025	0.0010	1			5/7/2012 12:36	BW	
Ethene	**1300**	ug/l	0.025	0.0060	1			5/7/2012 12:36	BW	
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	**0.086J**	mg/l	0.10	0.010	1			5/9/2012 04:40	KB	
Acetic Acid	**0.044J**	mg/l	0.070	0.0060	1			5/9/2012 04:40	KB	
Propionic Acid	**0.050 U**	mg/l	0.050	0.0070	1			5/9/2012 04:40	KB	
Butyric Acid	**0.050 U**	mg/l	0.050	0.0040	1			5/9/2012 04:40	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.033	1			5/9/2012 04:40	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.044	1			5/9/2012 04:40	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.012	1			5/9/2012 04:40	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			5/9/2012 04:40	KB	
Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			5/9/2012 04:40	KB	

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ANALYTICAL RESULTS

Workorder: 5119 MI PLAZA / M01046

Lab ID: **51190018** Date Received: 5/1/2012 11:45 Matrix: Water
Sample ID: **MMW-P-06** Date Collected: 4/26/2012 08:33

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	**17000**	ug/l	0.10	0.015	1			5/7/2012 12:46	BW	
Ethane	**1.0**	ug/l	0.025	0.0010	1			5/7/2012 12:46	BW	
Ethene	**1300**	ug/l	0.025	0.0060	1			5/7/2012 12:46	BW	
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	**0.24**	mg/l	0.10	0.010	1			5/9/2012 05:22	KB	
Acetic Acid	**1.2**	mg/l	0.070	0.0060	1			5/9/2012 05:22	KB	
Propionic Acid	**0.031J**	mg/l	0.050	0.0070	1			5/9/2012 05:22	KB	
Butyric Acid	**0.050 U**	mg/l	0.050	0.0040	1			5/9/2012 05:22	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.033	1			5/9/2012 05:22	KB	
I-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.044	1			5/9/2012 05:22	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.012	1			5/9/2012 05:22	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			5/9/2012 05:22	KB	
Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			5/9/2012 05:22	KB	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 5119 MI PLAZA / M01046

PARAMETER QUALIFIERS

U	Indicates the compound was analyzed for, but not detected.
J	Estimated concentration greater than the set method detection limit (MDL) and less than the set reporting limit (RDL).

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QUALITY CONTROL DATA

Workorder: 5119 MI PLAZA / M01046

QC Batch: DISG/2121 Analysis Method: AM20GAX

QC Batch Method: AM20GAX

Associated Lab Samples: 51190001, 51190002, 51190003, 51190004, 51190005, 51190006, 51190007, 51190008, 51190009, 51190010,

METHOD BLANK: 11034

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RISK				
Methane	ug/l	0.10 U	0.10	
Ethane	ug/l	0.025 U	0.025	
Ethene	ug/l	0.025 U	0.025	

LABORATORY CONTROL SAMPLE & LCSD: 11035 11036

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK										
Methane	ug/l	820	820	850	99	103	80-120	4	20	
Ethane	ug/l	45	46	48	102	106	80-120	3.8	20	
Ethene	ug/l	41	42	43	103	107	80-120	3.8	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 11037 11038 Original: 51190003

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK											
Methane	ug/l	7400	820	8900	8800	181	169	70-130	6.9	20	
Ethane	ug/l	2	45	43	43	91	92	70-130	1.1	20	
Ethene	ug/l	36	41	78	78	102	101	70-130	0.99	20	

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QUALITY CONTROL DATA

Workorder: 5119 MI PLAZA / M01046

QC Batch: EDON/1387 Analysis Method: AM23G

QC Batch Method: AM23G

Associated Lab Samples: 51190001, 51190002, 51190003, 51190004, 51190005, 51190006, 51190007, 51190008, 51190009, 51190010,

METHOD BLANK: 11119

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
EDonors				
Lactic Acid	mg/l	0.050J	0.10	
Acetic Acid	mg/l	0.070 U	0.070	
Propionic Acid	mg/l	0.050 U	0.050	
Butyric Acid	mg/l	0.050 U	0.050	
Pyruvic Acid	mg/l	0.15 U	0.15	
i-Pentanoic Acid	mg/l	0.15 U	0.15	
Pentanoic Acid	mg/l	0.070 U	0.070	
i-Hexanoic Acid	mg/l	0.050 U	0.050	
Hexanoic Acid	mg/l	0.050 U	0.050	

LABORATORY CONTROL SAMPLE: 11120

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
EDonors						
Lactic Acid	mg/l	2	2.1	107	70-130	
Acetic Acid	mg/l	2	2.0	99	70-130	
Propionic Acid	mg/l	2	2.0	103	70-130	
Butyric Acid	mg/l	2	2.1	104	70-130	
Pyruvic Acid	mg/l	2	2.0	100	70-130	
i-Pentanoic Acid	mg/l	2	1.9	97	70-130	
Pentanoic Acid	mg/l	2	2.0	100	70-130	
i-Hexanoic Acid	mg/l	2	2.2	108	70-130	
Hexanoic Acid	mg/l	2	1.9	94	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 11121 11122 Original: 51190003

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
EDonors											
Lactic Acid	mg/l	0.13	2	2.1	2.1	101	101	70-130	0	30	
Acetic Acid	mg/l	0.052	2	2.1	2.0	101	100	70-130	1	30	
Propionic Acid	mg/l	0.016	2	2.0	2.0	99	100	70-130	1	30	

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QUALITY CONTROL DATA

Workorder: 5119 MI PLAZA / M01046

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 11121 11122 Original: 51190003

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Butyric Acid	mg/l	0	2	2.0	2.0	98	98	70-130	0	30	
Pyruvic Acid	mg/l	0	2	2.1	2.0	103	102	70-130	0.98	30	
i-Pentanoic Acid	mg/l	0	2	2.0	2.0	99	101	70-130	2	30	
Pentanoic Acid	mg/l	0	2	1.9	2.0	97	102	70-130	5	30	
i-Hexanoic Acid	mg/l	0	2	2.2	2.2	108	110	70-130	1.8	30	
Hexanoic Acid	mg/l	0	2	2.0	2.0	103	99	70-130	4	30	

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QUALITY CONTROL DATA

Workorder: 5119 MI PLAZA / M01046

QC Batch: EDON/1396 Analysis Method: AM23G

QC Batch Method: AM23G

Associated Lab Samples: 51190010

METHOD BLANK: 11315

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
EDonors				
Lactic Acid	mg/l	0.068J	0.10	
Acetic Acid	mg/l	0.016J	0.070	
Propionic Acid	mg/l	0.050 U	0.050	

LABORATORY CONTROL SAMPLE: 11316

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
EDonors						
Lactic Acid	mg/l	2	2.1	104	70-130	
Acetic Acid	mg/l	2	2.0	100	70-130	
Propionic Acid	mg/l	2	2.0	99	70-130	

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 5119 MI PLAZA / M01046

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
51190001	MMW-C-01			AM20GAX	DISG/2121
51190002	MMW-10S			AM20GAX	DISG/2121
51190003	MMW-9S			AM20GAX	DISG/2121
51190004	MMW-9S MS			AM20GAX	DISG/2121
51190005	MMW-9S MSD			AM20GAX	DISG/2121
51190006	MMW-1S			AM20GAX	DISG/2121
51190007	MMW-8S			AM20GAX	DISG/2121
51190008	MMW-P-03S			AM20GAX	DISG/2121
51190009	DUP			AM20GAX	DISG/2121
51190010	MMW-P-03D			AM20GAX	DISG/2121
51190011	MMW-P-02			AM20GAX	DISG/2121
51190012	MMW-P-05			AM20GAX	DISG/2121
51190013	MMW-P-10S			AM20GAX	DISG/2121
51190014	MMW-P-10D			AM20GAX	DISG/2121
51190015	MMW-P-08			AM20GAX	DISG/2121
51190016	MMW-P-07			AM20GAX	DISG/2121
51190017	MMW-P-01			AM20GAX	DISG/2121
51190018	MMW-P-06			AM20GAX	DISG/2121
51190001	MMW-C-01			AM23G	EDON/1387
51190002	MMW-10S			AM23G	EDON/1387
51190003	MMW-9S			AM23G	EDON/1387
51190004	MMW-9S MS			AM23G	EDON/1387
51190005	MMW-9S MSD			AM23G	EDON/1387
51190006	MMW-1S			AM23G	EDON/1387
51190007	MMW-8S			AM23G	EDON/1387
51190008	MMW-P-03S			AM23G	EDON/1387
51190009	DUP			AM23G	EDON/1387
51190010	MMW-P-03D			AM23G	EDON/1387
51190011	MMW-P-02			AM23G	EDON/1387
51190012	MMW-P-05			AM23G	EDON/1387
51190013	MMW-P-10S			AM23G	EDON/1387
51190014	MMW-P-10D			AM23G	EDON/1387
51190015	MMW-P-08			AM23G	EDON/1387

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 5119 MI PLAZA / M01046

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
51190016	MMW-P-07			AM23G	EDON/1387
51190017	MMW-P-01			AM23G	EDON/1387
51190018	MMW-P-06			AM23G	EDON/1387
51190010	MMW-P-03D			AM23G	EDON/1396

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Microseeps Lab. Proj. # 5119

CHAIN - OF - CUSTODY RECORD

Microseeps COC cont. #

Phone: (412) 826-5245 | Microseeps, Inc. - 220 William Pitt Way - Pittsburgh, PA 15238 | Fax No. : (412) 826-3433

Company : Mundell & Assoc

Co. Address : 110 S. Downey Ave

Phone # : 317-630-9060 Fax # :

Proj. Manager : Mark Breting

Proj. Name/Number : MI Plaza / M01046

Sampler's signature :

Cooler Temp. 2.2°C

Results to : Mark Breting

Invoice to : Marla Tebbe

Parameters Requested: MEE AM20GAX, VFA AM23G

	Sample ID	Sample Description	Sample Type Water	Vapor	Solid	Date	Time	# bottles	MEE AM20GAX	VFA AM23G	Remarks :
1	MMW-C-01		✓			4/24/12	1:01P	4	✓	✓	
2	MMW-10S		✓			4/24/12	1:46P	4	✓	✓	
3	MMW-9S (MS/MSD)		✓			4/25/12	8:04A	12	✓	✓	
4	MMW-1S		✓			4/25/12	9:23A	4	✓	✓	
5	MMW-8S		✓			4/25/12	10:44A	4	✓	✓	
6	MMW-P-03S		✓			4/25/12	10:51A	4	✓	✓	
7	DuP		✓					4	✓	✓	
8	MMW-P-03D		✓			4/25/12	11:24A	4	✓	✓	
9	MMW-P-02		✓			4/25/12	12:36P	4	✓	✓	
10	MMW-P-05		✓			4/25/12	1:5[illegible]	4	✓	✓	
11	MMW-P-10S		✓			4/25/12	1:54P	4	✓	✓	
12	MMW-P-10D		✓			4/25/12	2:37P	4	✓	✓	

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
[signature]	Mundell	4/30/12	2:00P	[signature]	MS	5-1-12	1145
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :

WHITE COPY : Accompany Samples YELLOW COPY : Laboratory File PINK COPY : Submitter

Microseeps Lab. Proj. # 5119

CHAIN - OF - CUSTODY RECORD

Microseeps COC cont. #

Phone: (412) 826-5245 | Microseeps, Inc. - 220 William Pitt Way - Pittsburgh, PA 15238 | Fax No. : (412) 826-3433

Company : Mundell & Assoc.
Co. Address : 110 S. Downey Ave
Phone # : 317-630-9060 Fax # :
Proj. Manager : Mark Bretting
Proj. Name/Number : MT Plaza / M01044
Sampler's signature :

Cooler Temp. 2.2°C

Results to : Mark Bretting

Invoice to : Mark Bretting

Parameters Requested: MEE Am 20 GAX; VFA Am 23G

	Sample ID	Sample Description	Sample Type: Water	Vapor	Solid	Date	Time	# bottles	MEE Am 20 GAX	VFA Am 23G	Remarks :
13	MMW-P-08		✓			4/25/12	3:04p	4	✓	✓	
14	MMW-P-07		✓			4/25/12	3:30p	4	✓	✓	
15	MMW-P-01		✓			4/25/12	3:56p	4	✓	✓	
16	MMW-P-06		✓			4/26/12	8:33A	4	✓	✓	

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
	Mundell	4/30/12	200p	[illegible]	MS	5-1-12	11 45
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :

WHITE COPY : Accompany Samples YELLOW COPY : Laboratory File PINK COPY : Submitter

NON-CONFORMANCE FORM

Microseeps Project Number: 5119

Date: 5-1-12 Time of Receipt: 11:45 Receiver: H. Dan Young

Client: Mundell.

REASON FOR NON-CONFORMANCE:

1. Received DUP-1 collected 4/25/12
Didnot received DUP as on COC.
2. MMW-P-02: No time of collection on vials.
Time taken from COC

ACTION TAKEN:

Client name: Sarah Webb; Mark Breting Date: 5/1/12 Time: 15:20

Emailed client
(As per attached email ~~log DUP~~ JS 5/1/12 DUP-1 is the
same sample as DUP.
Log in as per COC ID.

Customer Service Initials: JS Date: 5/1/12

5119

Julianne Sproull

From: Andy Dammeyer <ADAMMEYER@MUNDELLASSOCIATES.COM>
Sent: Tuesday, May 01, 2012 4:47 PM
To: Julianne Sproull
Subject: Mundell Project # M01046

Hello Juli, Regarding the e-mail sent to John Mundell, Merle Tebbe, and Mark Breting about the DUP sample and MMW-P-02 for Project # M01046.

- Yes: DUP-1 and DUP are the same sample.
- It is fine to use the time on the COC for MMW-P-02. The sharpie I was using got wet and would not write. Sorry for any inconvenience this may have caused.

Thanks,
Andy

Andrew T. Dammeyer
MUNDELL & ASSOCIATES, INC.
110 S Downey Avenue
Indianapolis, Indiana 46219
P: (317) 630-9060 ext 137 Fax: (317)630-9065
Website: www.mundellassociates.com
Email: adammeyer@mundellassociates.com

Cooler Receipt Form

Client Name: Mundell & Associates Project: MI Plaza / M01046 Lab Work Order: 5119

A. **Shipping/Container Information** (circle appropriate response)

Courier: (FedEx) UPS USPS Client Other:_____ **Air bill Present:** (Yes) No

Tracking Number: 7983 4101 5915

Custody Seal on Cooler/Box Present: Yes (No) **Seals Intact:** Yes No

Cooler/Box Packing Material: (Bubble Wrap) Absorbent Foam Other:_____

Type of Ice: (Wet) Blue None **Ice Intact:** (Yes) Melted

Cooler Temperature: 2.2°C **Radiation Screened:** Yes (No) **Chain of Custody Present:** (Yes) No

Comments:_____

B. **Laboratory Assignment/Log-in** (check appropriate response)

	YES	NO	N/A	Comment Reference non-Conformance
Chain of Custody properly filled out	✓			
Chain of Custody relinquished	✓			
Sampler Name & Signature on COC	✓			
Containers intact	✓			
Were samples in separate bags	✓			
Sample container labels match COC Sample name/date and time collected		✓		
Sufficient volume provided	✓			
Microseeps containers used	✓			
Are containers properly preserved for the requested testing? (as labeled)	✓			
If an unknown preservation state, were containers checked? Exception: VOA's coliform			✓	
Was volume for dissolved testing field filtered, as noted on the COC? Was volume received in a preserved container?			✓	

Comments:_____

Cooler contents examined/received by : HLY **Date:** 5-1-12

Project Manager Review : JS **Date:** 5/2/12

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May 17, 2012

Merle Tebbe
Mundell & Associates, Inc.
110 South Downey Ave.
Indianapolis, IN 46219

RE: **MI PLAZA / M01046**
Microseeps Workorder: 5159

Dear Merle Tebbe:

Enclosed are the analytical results for sample(s) received by the laboratory on Friday, May 04, 2012. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Julianne C. Sproull RJR 5-18-12

Julianne Sproull 05/17/2012
jsproull@microseeps.com

Enclosures

As a valued client we would appreciate your comments on our service.
Please email info@microseeps.com.

Total Number of Pages 16

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LABORATORY ACCREDITATIONS & CERTIFICATIONS

Accreditor:	Pennsylvania Department of Environmental Protection, Bureau of Laboratories
Accreditation ID:	02-00538
Scope:	NELAP Non-Potable Water and Solid & Hazardous Waste
Accreditor:	NELAP: State of Florida, Department of Health, Bureau of Laboratories
Accreditation ID:	E87832
Scope:	Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA)
Accreditor:	South Carolina Department of Health and Environmental Control, Office of Environmental Laboratory Certification
Accreditation ID:	89009003
Scope:	Clean Water Act (CWA); Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: State of Louisiana, Department of Environmental Quality
Accreditation ID:	04104
Scope:	Solid and Chemical Materials; Non-Potable Water
Accreditor:	NELAP: New Jersey, Department of Environmental Protection
Accreditation ID:	PA026
Scope:	Non-Potable Water; Solid and Chemical Materials
Accreditor:	NELAP: New York, Department of Health Wadsworth Center
Accreditation ID:	11815
Scope:	Non-Potable Water; Solid and Hazardous Waste
Accreditor:	State of Connecticut, Department of Public Health, Division of Environmental Health
Accreditation ID:	PH-0263
Scope:	Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: Texas, Commission on Environmental Quality
Accreditation ID:	T104704453-09-TX
Scope:	Non-Potable Water
Accreditor:	State of New Hampshire
Accreditation ID:	299409
Scope:	Non-potable water
Accreditor:	State of Georgia
Accreditation ID:	Chapter 391-3-26
Scope:	As per the Georgia EPD Rules and Regulations for Commercial Laboratories, Microseeps is accredited by the Pennsylvania Department of Environmental Protection Bureau of Laboratories under the National Environmental Laboratory Approval Program (NELAC).

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SAMPLE SUMMARY

Workorder: 5159 MI PLAZA / M01046

Lab ID	Sample ID	Matrix	Date Collected	Date Received
51590001	MMW-P-04	Water	5/1/2012 09:34	5/4/2012 11:00
51590002	MMW-P-12S	Water	5/1/2012 10:18	5/4/2012 11:00
51590003	MMW-P-12D	Water	5/1/2012 10:53	5/4/2012 11:00
51590004	MMW-P-11S	Water	5/1/2012 11:36	5/4/2012 11:00
51590005	MMW-P-11DR	Water	5/1/2012 12:15	5/4/2012 11:00

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PROJECT SUMMARY

Workorder: 5159 MI PLAZA / M01046

Batch Comments

Batch: EDON/1394 - Low Level Volatile Fatty Acids

The method blank contains a reportable concentration above the RDL. Analyte Lactic acid. Results for this analyte in associated samples may be bias high.

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ANALYTICAL RESULTS

Workorder: 5159 MI PLAZA / M01046

Lab ID: **51590001** Date Received: 5/4/2012 11:00 Matrix: Water

Sample ID: **MMW-P-04** Date Collected: 5/1/2012 09:34

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX		Analytical Method: AM20GAX								
Methane	**19000**	ug/l	0.10	0.015	1			5/11/2012 09:11	BW	
Ethane	**0.11**	ug/l	0.025	0.0010	1			5/11/2012 09:11	BW	
Ethene	**3.2**	ug/l	0.025	0.0060	1			5/11/2012 09:11	BW	
EDonors - MICR										
Analysis Desc: AM23G		Analytical Method: AM23G								
Lactic Acid	**0.10 U**	mg/l	0.10	0.010	1			5/12/2012 19:41	KB	
Acetic Acid	**1.4**	mg/l	0.070	0.0060	1			5/12/2012 19:41	KB	
Propionic Acid	**0.029J**	mg/l	0.050	0.0070	1			5/12/2012 19:41	KB	
Butyric Acid	**0.053**	mg/l	0.050	0.0040	1			5/12/2012 19:41	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.033	1			5/12/2012 19:41	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.044	1			5/12/2012 19:41	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.012	1			5/12/2012 19:41	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			5/12/2012 19:41	KB	
Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			5/12/2012 19:41	KB	

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ANALYTICAL RESULTS

Workorder: 5159 MI PLAZA / M01046

Lab ID: **51590002** Date Received: 5/4/2012 11:00 Matrix: Water

Sample ID: **MMW-P-12S** Date Collected: 5/1/2012 10:18

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	**28**	ug/l	0.10	0.015	1			5/11/2012 09:23	BW	
Ethane	**0.66**	ug/l	0.025	0.0010	1			5/11/2012 09:23	BW	
Ethene	**0.26**	ug/l	0.025	0.0060	1			5/11/2012 09:23	BW	
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	**0.093J**	mg/l	0.10	0.010	1			5/12/2012 20:23	KB	
Acetic Acid	**0.026J**	mg/l	0.070	0.0060	1			5/12/2012 20:23	KB	
Propionic Acid	**0.050 U**	mg/l	0.050	0.0070	1			5/12/2012 20:23	KB	
Butyric Acid	**0.050 U**	mg/l	0.050	0.0040	1			5/12/2012 20:23	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.033	1			5/12/2012 20:23	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.044	1			5/12/2012 20:23	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.012	1			5/12/2012 20:23	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			5/12/2012 20:23	KB	
Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			5/12/2012 20:23	KB	

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ANALYTICAL RESULTS

Workorder: 5159 MI PLAZA / M01046

Lab ID: **51590003** Date Received: 5/4/2012 11:00 Matrix: Water

Sample ID: **MMW-P-12D** Date Collected: 5/1/2012 10:53

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX		Analytical Method: AM20GAX								
Methane	**24**	ug/l	0.10	0.015	1			5/11/2012 09:32	BW	
Ethane	**1.1**	ug/l	0.025	0.0010	1			5/11/2012 09:32	BW	
Ethene	**0.66**	ug/l	0.025	0.0060	1			5/11/2012 09:32	BW	
EDonors - MICR										
Analysis Desc: AM23G		Analytical Method: AM23G								
Lactic Acid	**0.089J**	mg/l	0.10	0.010	1			5/12/2012 21:06	KB	
Acetic Acid	**0.022J**	mg/l	0.070	0.0060	1			5/12/2012 21:06	KB	
Propionic Acid	**0.014J**	mg/l	0.050	0.0070	1			5/12/2012 21:06	KB	
Butyric Acid	**0.041J**	mg/l	0.050	0.0040	1			5/12/2012 21:06	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.033	1			5/12/2012 21:06	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.044	1			5/12/2012 21:06	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.012	1			5/12/2012 21:06	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			5/12/2012 21:06	KB	
Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			5/12/2012 21:06	KB	

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220 William Pitt Way
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Phone: (412) 826-5245
Fax: (412) 826-3433

ANALYTICAL RESULTS

Workorder: 5159 MI PLAZA / M01046

Lab ID: **51590004** Date Received: 5/4/2012 11:00 Matrix: Water
Sample ID: **MMW-P-11S** Date Collected: 5/1/2012 11:36

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	**1300**	ug/l	0.10	0.015	1			5/11/2012 09:43	BW	
Ethane	**0.19**	ug/l	0.025	0.0010	1			5/11/2012 09:43	BW	
Ethene	**5.9**	ug/l	0.025	0.0060	1			5/11/2012 09:43	BW	
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	**0.084J**	mg/l	0.10	0.010	1			5/12/2012 21:48	KB	
Acetic Acid	**0.026J**	mg/l	0.070	0.0060	1			5/12/2012 21:48	KB	
Propionic Acid	**0.014J**	mg/l	0.050	0.0070	1			5/12/2012 21:48	KB	
Butyric Acid	**0.050 U**	mg/l	0.050	0.0040	1			5/12/2012 21:48	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.033	1			5/12/2012 21:48	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.044	1			5/12/2012 21:48	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.012	1			5/12/2012 21:48	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			5/12/2012 21:48	KB	
Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			5/12/2012 21:48	KB	

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ANALYTICAL RESULTS

Workorder: 5159 MI PLAZA / M01046

Lab ID: **51590005** Date Received: 5/4/2012 11:00 Matrix: Water

Sample ID: **MMW-P-11DR** Date Collected: 5/1/2012 12:15

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX		Analytical Method: AM20GAX								
Methane	**1000**	ug/l	0.10	0.015	1			5/11/2012 09:55	BW	
Ethane	**1.1**	ug/l	0.025	0.0010	1			5/11/2012 09:55	BW	
Ethene	**7.4**	ug/l	0.025	0.0060	1			5/11/2012 09:55	BW	
EDonors - MICR										
Analysis Desc: AM23G		Analytical Method: AM23G								
Lactic Acid	**0.079J**	mg/l	0.10	0.010	1			5/12/2012 22:30	KB	
Acetic Acid	**0.024J**	mg/l	0.070	0.0060	1			5/12/2012 22:30	KB	
Propionic Acid	**0.050 U**	mg/l	0.050	0.0070	1			5/12/2012 22:30	KB	
Butyric Acid	**0.050 U**	mg/l	0.050	0.0040	1			5/12/2012 22:30	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.033	1			5/12/2012 22:30	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.044	1			5/12/2012 22:30	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.012	1			5/12/2012 22:30	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			5/12/2012 22:30	KB	
Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			5/12/2012 22:30	KB	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 5159 MI PLAZA / M01046

PARAMETER QUALIFIERS

U	Indicates the compound was analyzed for, but not detected.
J	Estimated concentration greater than the set method detection limit (MDL) and less than the set reporting limit (RDL).

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QUALITY CONTROL DATA

Workorder: 5159 MI PLAZA / M01046

QC Batch: DISG/2135 Analysis Method: AM20GAX

QC Batch Method: AM20GAX

Associated Lab Samples: 51590001, 51590002, 51590003, 51590004, 51590005

METHOD BLANK: 11227

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RISK				
Methane	ug/l	0.10 U	0.10	
Ethane	ug/l	0.025 U	0.025	
Ethene	ug/l	0.025 U	0.025	

LABORATORY CONTROL SAMPLE & LCSD: 11228 11229

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK										
Methane	ug/l	820	800	840	98	102	80-120	4	20	
Ethane	ug/l	45	45	47	101	105	80-120	3.9	20	
Ethene	ug/l	41	42	43	103	106	80-120	2.9	20	

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QUALITY CONTROL DATA

Workorder: 5159 MI PLAZA / M01046

QC Batch: EDON/1394 Analysis Method: AM23G

QC Batch Method: AM23G

Associated Lab Samples: 51590001, 51590002, 51590003, 51590004, 51590005

METHOD BLANK: 11270

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
EDonors				
Lactic Acid	mg/l	0.16	0.10	
Acetic Acid	mg/l	0.0087J	0.070	
Propionic Acid	mg/l	0.050 U	0.050	
Butyric Acid	mg/l	0.050 U	0.050	
Pyruvic Acid	mg/l	0.15 U	0.15	
i-Pentanoic Acid	mg/l	0.15 U	0.15	
Pentanoic Acid	mg/l	0.070 U	0.070	
i-Hexanoic Acid	mg/l	0.050 U	0.050	
Hexanoic Acid	mg/l	0.050 U	0.050	

LABORATORY CONTROL SAMPLE: 11271

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
EDonors						
Lactic Acid	mg/l	2	2.0	101	70-130	
Acetic Acid	mg/l	2	2.0	100	70-130	
Propionic Acid	mg/l	2	2.0	99	70-130	
Butyric Acid	mg/l	2	2.0	99	70-130	
Pyruvic Acid	mg/l	2	2.0	100	70-130	
i-Pentanoic Acid	mg/l	2	2.0	100	70-130	
Pentanoic Acid	mg/l	2	2.0	99	70-130	
i-Hexanoic Acid	mg/l	2	2.1	103	70-130	
Hexanoic Acid	mg/l	2	1.9	93	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 11272 11273 Original: 51990001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
EDonors											
Lactic Acid	mg/l	0.14	2	2.2	2.2	103	104	70-130	0.97	30	
Acetic Acid	mg/l	0.06	2	2.1	2.1	102	103	70-130	0.98	30	
Propionic Acid	mg/l	0	2	2.0	2.0	101	99	70-130	2	30	

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QUALITY CONTROL DATA

Workorder: 5159 MI PLAZA / M01046

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 11272 11273 Original: 51990001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Butyric Acid	mg/l	0	2	1.9	1.9	97	97	70-130	0	30	
Pyruvic Acid	mg/l	0	2	2.0	2.0	101	101	70-130	0	30	
i-Pentanoic Acid	mg/l	0	2	2.0	2.0	98	101	70-130	3	30	
Pentanoic Acid	mg/l	0	2	1.9	2.0	95	98	70-130	3.1	30	
i-Hexanoic Acid	mg/l	0	2	2.0	2.1	101	103	70-130	2	30	
Hexanoic Acid	mg/l	0.011	2	1.8	2.0	90	97	70-130	7.5	30	

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 5159 MI PLAZA / M01046

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
51590001	MMW-P-04			AM20GAX	DISG/2135
51590002	MMW-P-12S			AM20GAX	DISG/2135
51590003	MMW-P-12D			AM20GAX	DISG/2135
51590004	MMW-P-11S			AM20GAX	DISG/2135
51590005	MMW-P-11DR			AM20GAX	DISG/2135
51590001	MMW-P-04			AM23G	EDON/1394
51590002	MMW-P-12S			AM23G	EDON/1394
51590003	MMW-P-12D			AM23G	EDON/1394
51590004	MMW-P-11S			AM23G	EDON/1394
51590005	MMW-P-11DR			AM23G	EDON/1394

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Microseeps Lab. Proj. # 5159

CHAIN - OF - CUSTODY RECORD

Microseeps COC cont. #

Phone: (412) 826-5245 | Microseeps, Inc. - 220 William Pitt Way - Pittsburgh, PA 15238 | Fax No. : (412) 826-3433

Company : Mundell & Associates

Co. Address : 1105. Downey Ave

Phone # : 317-630-9060 Fax # :

Proj. Manager : Mark Breting

Proj. Name/Number : MIPlaza / M01046

Sampler's signature :

Cooler Temp. 0.8°C

Results to : Mark Breting

Invoice to : Merle Tebbe

Parameters Requested: VFA M23G; MEE M20GAX

	Sample ID	Sample Description	Sample Type: Water	Vapor	Solid	Date	Time	# bottles	VFA M23G	MEE M20GAX	Remarks :
1	MMW-P-04	water	✓			5/1/12	9:34A	4	X	X	
2	MMW-P-12S		✓			5/1/12	10:18A	4	↓	↓	
3	MMW-P-12D		✓			5/1/12	10:53A	4	↓	↓	
4	MMW-P-11S		✓			5/1/12	11:36A	4	↓	↓	
5	MMW-P-11DR		✓			5/1/12	12:15P	4	↓	↓	

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
	Mundell	5/3/12	2:00P		MS	5-4-12	1100
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :

WHITE COPY : Accompany Samples YELLOW COPY : Laboratory File PINK COPY : Submitter

Cooler Receipt Form

Client Name: Mundells Assoc **Project:** MI Plaza/ M01046 **Lab Work Order:** 5159

A. Shipping/Container Information (circle appropriate response)

Courier: (FedEx) UPS USPS Client Other:_____ **Air bill Present:** (Yes) No

Tracking Number: 7983 5680 9064

Custody Seal on Cooler/Box Present: Yes (No) **Seals Intact:** Yes No

Cooler/Box Packing Material: (Bubble Wrap) Absorbent Foam Other:_____

Type of Ice: (Wet) Blue None **Ice Intact:** (Yes) Melted

Cooler Temperature: 0.8°C **Radiation Screened:** Yes (No) **Chain of Custody Present:** (Yes) No

Comments:_____

B. Laboratory Assignment/Log-in (check appropriate response)

	YES	NO	N/A	Comment Reference non-Conformance
Chain of Custody properly filled out	✓			
Chain of Custody relinquished	✓			
Sampler Name & Signature on COC	✓			
Containers intact	✓			
Were samples in separate bags	✓			
Sample container labels match COC Sample name/date and time collected	✓			
Sufficient volume provided	✓			
Microseeps containers used	✓			
Are containers properly preserved for the requested testing? (as labeled)	✓			
If an unknown preservation state, were containers checked? Exception: VOA's coliform			✓	
Was volume for dissolved testing field filtered, as noted on the COC? Was volume received in a preserved container?			✓	

Comments:_____

Cooler contents examined/received by : HLY **Date:** 5-4-12

Project Manager Review : JS **Date:** 5-7-12

Microseeps, Inc
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

July 2, 2012

Merle Tebbe
Mundell & Associates, Inc.
110 South Downey Ave.
Indianapolis, IN 46219

RE: **MI PLAZA / M01046**
Microseeps Workorder: 5611

Dear Merle Tebbe:

Enclosed are the analytical results for sample(s) received by the laboratory on Tuesday, June 19, 2012. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Julianne C. Sproull

Julianne Sproull 07/02/2012
jsproull@microseeps.com

Enclosures

As a valued client we would appreciate your comments on our service.
Please email info@microseeps.com.

Total Number of Pages 15

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LABORATORY ACCREDITATIONS & CERTIFICATIONS

Accreditor:	Pennsylvania Department of Environmental Protection, Bureau of Laboratories
Accreditation ID:	02-00538
Scope:	NELAP Non-Potable Water and Solid & Hazardous Waste
Accreditor:	NELAP: State of Florida, Department of Health, Bureau of Laboratories
Accreditation ID:	E87832
Scope:	Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA)
Accreditor:	South Carolina Department of Health and Environmental Control, Office of Environmental Laboratory Certification
Accreditation ID:	89009003
Scope:	Clean Water Act (CWA); Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: State of Louisiana, Department of Environmental Quality
Accreditation ID:	04104
Scope:	Solid and Chemical Materials; Non-Potable Water
Accreditor:	NELAP: New Jersey, Department of Environmental Protection
Accreditation ID:	PA026
Scope:	Non-Potable Water; Solid and Chemical Materials
Accreditor:	NELAP: New York, Department of Health Wadsworth Center
Accreditation ID:	11815
Scope:	Non-Potable Water; Solid and Hazardous Waste
Accreditor:	State of Connecticut, Department of Public Health, Division of Environmental Health
Accreditation ID:	PH-0263
Scope:	Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: Texas, Commission on Environmental Quality
Accreditation ID:	T104704453-09-TX
Scope:	Non-Potable Water
Accreditor:	State of New Hampshire
Accreditation ID:	299409
Scope:	Non-potable water
Accreditor:	State of Georgia
Accreditation ID:	Chapter 391-3-26
Scope:	As per the Georgia EPD Rules and Regulations for Commercial Laboratories, Microseeps is accredited by the Pennsylvania Department of Environmental Protection Bureau of Laboratories under the National Environmental Laboratory Approval Program (NELAC).

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SAMPLE SUMMARY

Workorder: 5611 MI PLAZA / M01046

Lab ID	Sample ID	Matrix	Date Collected	Date Received
56110001	B-1	Vapor	6/15/2012 13:00	6/19/2012 12:30
56110002	B-2	Vapor	6/15/2012 13:35	6/19/2012 12:30
56110003	B-3	Vapor	6/15/2012 13:25	6/19/2012 12:30
56110004	B-4	Vapor	6/15/2012 13:15	6/19/2012 12:30
56110005	B-5	Vapor	6/15/2012 13:50	6/19/2012 12:30
56110006	B-6	Vapor	6/15/2012 14:00	6/19/2012 12:30
56110007	B-7	Vapor	6/15/2012 14:10	6/19/2012 12:30

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ANALYTICAL RESULTS

Workorder: 5611 MI PLAZA / M01046

Lab ID: **56110001** Date Received: 6/19/2012 12:30 Matrix: Vapor

Sample ID: **B-1** Date Collected: 6/15/2012 13:00

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM4.02 Vapors		Analytical Method: AM4.02 Vapors								
Vinyl Chloride	**1.0 U**	ppmv	1.0	0.095	1			6/26/2012 00:00	SL	
1,1-Dichloroethene	**0.010 U**	ppmv	0.010	0.0010	1			6/26/2012 00:00	SL	
Methylene Chloride	**2.0 U**	ppmv	2.0	0.19	1			6/26/2012 00:00	SL	
trans-1,2-Dichloroethene	**0.010 U**	ppmv	0.010	0.0080	1			6/26/2012 00:00	SL	
1,1-Dichloroethane	**0.020 U**	ppmv	0.020	0.0040	1			6/26/2012 00:00	SL	
cis-1,2-Dichloroethene	**0.020 U**	ppmv	0.020	0.0070	1			6/26/2012 00:00	SL	
Chloroform	**0.013**	ppmv	0.0050	0.0010	1			6/26/2012 00:00	SL	
1,1,1-Trichloroethane	**0.0050 U**	ppmv	0.0050	0.0010	1			6/26/2012 00:00	SL	
Carbon Tetrachloride	**0.0050 U**	ppmv	0.0050	0.0010	1			6/26/2012 00:00	SL	
Trichloroethene	**0.0013J**	ppmv	0.010	0.0010	1			6/26/2012 00:00	SL	
Tetrachloroethene	**0.071**	ppmv	0.010	0.0010	1			6/26/2012 00:00	SL	

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ANALYTICAL RESULTS

Workorder: 5611 MI PLAZA / M01046

Lab ID: **56110002** Date Received: 6/19/2012 12:30 Matrix: Vapor

Sample ID: **B-2** Date Collected: 6/15/2012 13:35

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM4.02 Vapors		Analytical Method: AM4.02 Vapors								
Vinyl Chloride	**1.0 U**	ppmv	1.0	0.095	1			6/26/2012 01:08	SL	
1,1-Dichloroethene	**0.010 U**	ppmv	0.010	0.0010	1			6/26/2012 01:08	SL	
Methylene Chloride	**2.0 U**	ppmv	2.0	0.19	1			6/26/2012 01:08	SL	
trans-1,2-Dichloroethene	**0.010 U**	ppmv	0.010	0.0080	1			6/26/2012 01:08	SL	
1,1-Dichloroethane	**0.020 U**	ppmv	0.020	0.0040	1			6/26/2012 01:08	SL	
cis-1,2-Dichloroethene	**0.020 U**	ppmv	0.020	0.0070	1			6/26/2012 01:08	SL	
Chloroform	**0.0019J**	ppmv	0.0050	0.0010	1			6/26/2012 01:08	SL	
1,1,1-Trichloroethane	**0.0050 U**	ppmv	0.0050	0.0010	1			6/26/2012 01:08	SL	
Carbon Tetrachloride	**0.0050 U**	ppmv	0.0050	0.0010	1			6/26/2012 01:08	SL	
Trichloroethene	**0.0011J**	ppmv	0.010	0.0010	1			6/26/2012 01:08	SL	
Tetrachloroethene	**0.12**	ppmv	0.010	0.0010	1			6/26/2012 01:08	SL	

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ANALYTICAL RESULTS

Workorder: 5611 MI PLAZA / M01046

Lab ID: **56110003** Date Received: 6/19/2012 12:30 Matrix: Vapor

Sample ID: **B-3** Date Collected: 6/15/2012 13:25

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM4.02 Vapors		Analytical Method: AM4.02 Vapors								
Vinyl Chloride	**1.0 U**	ppmv	1.0	0.095	1			6/26/2012 02:16	SL	
1,1-Dichloroethene	**0.010 U**	ppmv	0.010	0.0010	1			6/26/2012 02:16	SL	
Methylene Chloride	**2.0 U**	ppmv	2.0	0.19	1			6/26/2012 02:16	SL	
trans-1,2-Dichloroethene	**0.010 U**	ppmv	0.010	0.0080	1			6/26/2012 02:16	SL	
1,1-Dichloroethane	**0.020 U**	ppmv	0.020	0.0040	1			6/26/2012 02:16	SL	
cis-1,2-Dichloroethene	**0.020 U**	ppmv	0.020	0.0070	1			6/26/2012 02:16	SL	
Chloroform	**0.0013J**	ppmv	0.0050	0.0010	1			6/26/2012 02:16	SL	
1,1,1-Trichloroethane	**0.0050 U**	ppmv	0.0050	0.0010	1			6/26/2012 02:16	SL	
Carbon Tetrachloride	**0.0050 U**	ppmv	0.0050	0.0010	1			6/26/2012 02:16	SL	
Trichloroethene	**0.010 U**	ppmv	0.010	0.0010	1			6/26/2012 02:16	SL	
Tetrachloroethene	**0.048**	ppmv	0.010	0.0010	1			6/26/2012 02:16	SL	

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ANALYTICAL RESULTS

Workorder: 5611 MI PLAZA / M01046

Lab ID: **56110004** Date Received: 6/19/2012 12:30 Matrix: Vapor

Sample ID: **B-4** Date Collected: 6/15/2012 13:15

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM4.02 Vapors			Analytical Method: AM4.02 Vapors							
Vinyl Chloride	**1.0 U**	ppmv	1.0	0.095	1			6/26/2012 03:24	SL	
1,1-Dichloroethene	**0.010 U**	ppmv	0.010	0.0010	1			6/26/2012 03:24	SL	
Methylene Chloride	**2.0 U**	ppmv	2.0	0.19	1			6/26/2012 03:24	SL	
trans-1,2-Dichloroethene	**0.010 U**	ppmv	0.010	0.0080	1			6/26/2012 03:24	SL	
1,1-Dichloroethane	**0.020 U**	ppmv	0.020	0.0040	1			6/26/2012 03:24	SL	
cis-1,2-Dichloroethene	**0.020 U**	ppmv	0.020	0.0070	1			6/26/2012 03:24	SL	
Chloroform	**0.0021J**	ppmv	0.0050	0.0010	1			6/26/2012 03:24	SL	
1,1,1-Trichloroethane	**0.0050 U**	ppmv	0.0050	0.0010	1			6/26/2012 03:24	SL	
Carbon Tetrachloride	**0.0050 U**	ppmv	0.0050	0.0010	1			6/26/2012 03:24	SL	
Trichloroethene	**0.010 U**	ppmv	0.010	0.0010	1			6/26/2012 03:24	SL	
Tetrachloroethene	**0.0046J**	ppmv	0.010	0.0010	1			6/26/2012 03:24	SL	

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ANALYTICAL RESULTS

Workorder: 5611 MI PLAZA / M01046

Lab ID: **56110005** Date Received: 6/19/2012 12:30 Matrix: Vapor

Sample ID: **B-5** Date Collected: 6/15/2012 13:50

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM4.02 Vapors		Analytical Method: AM4.02 Vapors								
Vinyl Chloride	**0.33J**	ppmv	1.0	0.095	1			6/26/2012 12:01	SL	
1,1-Dichloroethene	**0.010 U**	ppmv	0.010	0.0010	1			6/26/2012 12:01	SL	
Methylene Chloride	**2.0 U**	ppmv	2.0	0.19	1			6/26/2012 12:01	SL	
trans-1,2-Dichloroethene	**0.010 U**	ppmv	0.010	0.0080	1			6/26/2012 12:01	SL	
1,1-Dichloroethane	**0.020 U**	ppmv	0.020	0.0040	1			6/26/2012 12:01	SL	
cis-1,2-Dichloroethene	**0.020 U**	ppmv	0.020	0.0070	1			6/26/2012 12:01	SL	
Chloroform	**0.0050 U**	ppmv	0.0050	0.0010	1			6/26/2012 12:01	SL	
1,1,1-Trichloroethane	**0.0050 U**	ppmv	0.0050	0.0010	1			6/26/2012 12:01	SL	
Carbon Tetrachloride	**0.0050 U**	ppmv	0.0050	0.0010	1			6/26/2012 12:01	SL	
Trichloroethene	**0.0015J**	ppmv	0.010	0.0010	1			6/26/2012 12:01	SL	
Tetrachloroethene	**0.014**	ppmv	0.010	0.0010	1			6/26/2012 12:01	SL	

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ANALYTICAL RESULTS

Workorder: 5611 MI PLAZA / M01046

Lab ID: **56110006** Date Received: 6/19/2012 12:30 Matrix: Vapor

Sample ID: **B-6** Date Collected: 6/15/2012 14:00

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM4.02 Vapors		Analytical Method: AM4.02 Vapors								
Vinyl Chloride	**0.14J**	ppmv	1.0	0.095	1			6/26/2012 13:09	SL	
1,1-Dichloroethene	**0.010 U**	ppmv	0.010	0.0010	1			6/26/2012 13:09	SL	
Methylene Chloride	**2.0 U**	ppmv	2.0	0.19	1			6/26/2012 13:09	SL	
trans-1,2-Dichloroethene	**0.010 U**	ppmv	0.010	0.0080	1			6/26/2012 13:09	SL	
1,1-Dichloroethane	**0.020 U**	ppmv	0.020	0.0040	1			6/26/2012 13:09	SL	
cis-1,2-Dichloroethene	**0.020 U**	ppmv	0.020	0.0070	1			6/26/2012 13:09	SL	
Chloroform	**0.0050 U**	ppmv	0.0050	0.0010	1			6/26/2012 13:09	SL	
1,1,1-Trichloroethane	**0.0050 U**	ppmv	0.0050	0.0010	1			6/26/2012 13:09	SL	
Carbon Tetrachloride	**0.0050 U**	ppmv	0.0050	0.0010	1			6/26/2012 13:09	SL	
Trichloroethene	**0.010 U**	ppmv	0.010	0.0010	1			6/26/2012 13:09	SL	
Tetrachloroethene	**0.011**	ppmv	0.010	0.0010	1			6/26/2012 13:09	SL	

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ANALYTICAL RESULTS

Workorder: 5611 MI PLAZA / M01046

Lab ID: **56110007** Date Received: 6/19/2012 12:30 Matrix: Vapor

Sample ID: **B-7** Date Collected: 6/15/2012 14:10

Parameters	Results	Units	RDL	MDL	DF Prepared	By	Analyzed	By	Qual
RISK - MICR									
Analysis Desc: AM4.02 Vapors		Analytical Method: AM4.02 Vapors							
Vinyl Chloride	**0.12J**	ppmv	1.0	0.095	1		6/26/2012 14:17	SL	
1,1-Dichloroethene	**0.010 U**	ppmv	0.010	0.0010	1		6/26/2012 14:17	SL	
Methylene Chloride	**2.0 U**	ppmv	2.0	0.19	1		6/26/2012 14:17	SL	
trans-1,2-Dichloroethene	**0.010 U**	ppmv	0.010	0.0080	1		6/26/2012 14:17	SL	
1,1-Dichloroethane	**0.020 U**	ppmv	0.020	0.0040	1		6/26/2012 14:17	SL	
cis-1,2-Dichloroethene	**0.034**	ppmv	0.020	0.0070	1		6/26/2012 14:17	SL	
Chloroform	**0.0050 U**	ppmv	0.0050	0.0010	1		6/26/2012 14:17	SL	
1,1,1-Trichloroethane	**0.0050 U**	ppmv	0.0050	0.0010	1		6/26/2012 14:17	SL	
Carbon Tetrachloride	**0.0050 U**	ppmv	0.0050	0.0010	1		6/26/2012 14:17	SL	
Trichloroethene	**0.010 U**	ppmv	0.010	0.0010	1		6/26/2012 14:17	SL	
Tetrachloroethene	**0.0025J**	ppmv	0.010	0.0010	1		6/26/2012 14:17	SL	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 5611 MI PLAZA / M01046

PARAMETER QUALIFIERS

U	Indicates the compound was analyzed for, but not detected.
J	Estimated concentration greater than the set method detection limit (MDL) and less than the set reporting limit (RDL).

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QUALITY CONTROL DATA

Workorder: 5611 MI PLAZA / M01046

QC Batch: VAP/1243 Analysis Method: AM4.02 Vapors

QC Batch Method: AM4.02 Vapors

Associated Lab Samples: 56110001, 56110002, 56110003, 56110004, 56110005, 56110006, 56110007

METHOD BLANK: 12258

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RISK				
1,1-Dichloroethene	ppmv	0.010 U	0.010	
trans-1,2-Dichloroethene	ppmv	0.010 U	0.010	
1,1-Dichloroethane	ppmv	0.020 U	0.020	
cis-1,2-Dichloroethene	ppmv	0.020 U	0.020	
Chloroform	ppmv	0.0050 U	0.0050	
1,1,1-Trichloroethane	ppmv	0.0050 U	0.0050	
Carbon Tetrachloride	ppmv	0.0050 U	0.0050	
Trichloroethene	ppmv	0.010 U	0.010	
Tetrachloroethene	ppmv	0.010 U	0.010	

METHOD BLANK: 12259

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RISK				
Vinyl Chloride	ppmv	1.0 U	1.0	
Methylene Chloride	ppmv	2.0 U	2.0	

LABORATORY CONTROL SAMPLE & LCSD: 12260 12262

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK										
1,1-Dichloroethene	ppmv	0.65	0.75	0.76	115	117	75-125	1.7	20	
trans-1,2-Dichloroethene	ppmv	0.65	0.78	0.78	120	120	75-125	0	20	
1,1-Dichloroethane	ppmv	0.64	0.66	0.65	103	101	75-125	2	20	
cis-1,2-Dichloroethene	ppmv		0.020 U	0.020 U						
Chloroform	ppmv	0.53	0.54	0.54	102	102	75-125	0	20	
1,1,1-Trichloroethane	ppmv	0.47	0.49	0.50	105	106	75-125	0.95	20	
Carbon Tetrachloride	ppmv	0.41	0.43	0.44	106	107	75-125	0.94	20	
Trichloroethene	ppmv	0.48	0.50	0.50	103	104	75-125	0.97	20	
Tetrachloroethene	ppmv		0.010 U	0.010 U						

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QUALITY CONTROL DATA

Workorder: 5611 MI PLAZA / M01046

LABORATORY CONTROL SAMPLE & LCSD: 12261 12263

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK										
Vinyl Chloride	ppmv		1.0 U	1.0 U						
Methylene Chloride	ppmv		0.81J	0.81J						

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 5611 MI PLAZA / M01046

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
56110001	B-1			AM4.02 Vapors	VAP/1243
56110002	B-2			AM4.02 Vapors	VAP/1243
56110003	B-3			AM4.02 Vapors	VAP/1243
56110004	B-4			AM4.02 Vapors	VAP/1243
56110005	B-5			AM4.02 Vapors	VAP/1243
56110006	B-6			AM4.02 Vapors	VAP/1243
56110007	B-7			AM4.02 Vapors	VAP/1243

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Microseeps Lab. Proj. # 5611

CHAIN - OF - CUSTODY RECORD

Microseeps COC cont. #

Phone: (412) 826-5245 | Microseeps, Inc. - 220 William Pitt Way - Pittsburgh, PA 15238 | Fax No. : (412) 826-3433

Company : Mundell & Assoc
Co. Address : 110 S. Downey Ave Indpls, IN
Phone # : 317-630-9060 Fax # : 317-630-9065
Proj. Manager : Mark Breting
Proj. Name/Number : MI Plaza / M01046
Sampler's signature : [signature]

Cooler Temp.

Results to : Mark Breting

Invoice to : Merle Tebbe

Parameters Requested: Chlorinated Hydrocarbons

Sample ID	Sample Description	Sample Type Water	Vapor	Solid	Date	Time	# bottles	Chlorinated Hydrocarbons	Remarks :
B-1	Vapor		X		6/15/12	1:00p	2	X	
B-2					6/15/12	1:35p	2		
B-3					6/15/12	1:25p	2		
B-4					6/15/12	1:15p	2		
B-5					6/15/12	1:50p	2		
B-6					6/15/12	2:00p	2		
B-7					6/15/12	2:10p	2		

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
[signature]	Mundell	6/18/12	8:05am	[signature]	MS	6/19/12	1230
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :

WHITE COPY : Accompany Samples YELLOW COPY : Laboratory File PINK COPY : Submitter

APPENDIX B

Air Mitigation Systems: Pounds of Contaminants Removed

APPENDIX B

Air Mitigation System - Historical Air Analytical Results

Michigan Plaza

Indianapolis, Indiana

MUNDELL Project No.: M01046

Sample Date	Perchloroethylene (PCE)											
	B-1	B-2	B-3	B-4	B-1	B-2	B-3	B-4	B-1	B-2	B-3	B-4
	(ppmv)				(ppm)				($\mu g/m^3$)			
9/21/2006	0.6300	0.7900	0.6700	0.2800	0.0043	0.0054	0.0046	0.0019	4281.48	5368.84	4553.32	1902.88
10/6/2006	0.8800	0.6700	0.9700	0.3100	0.0060	0.0046	0.0066	0.0021	5980.48	4553.32	6592.12	2106.76
10/13/2006	0.6800	0.3600	0.5200	0.2100	0.0046	0.0024	0.0035	0.0014	4621.28	2446.56	3533.92	1427.16
10/20/2006	0.8700	0.5500	0.8900	0.2200	0.0059	0.0037	0.0060	0.0015	5912.52	3737.80	6048.44	1495.12
11/17/2006	0.8100	0.4700	0.7800	0.1500	0.0055	0.0032	0.0053	0.0010	5504.76	3194.12	5300.88	1019.40
12/27/2006	0.7400	0.4700	0.7500	0.1100	0.0050	0.0032	0.0051	0.0007	5029.04	3194.12	5097.00	747.56
3/30/2007	0.5100	0.1800	0.5700	0.0310	0.0035	0.0012	0.0039	0.0002	3465.96	1223.28	3873.72	210.68
6/15/2007	*0.0050*	0.3100	0.2100	0.4600	0.0000	0.0021	0.0014	0.0031	33.98	2106.76	1427.16	3126.16
10/16/2007	0.3900	0.2400	0.2800	0.0670	0.0027	0.0016	0.0019	0.0005	2650.44	1631.04	1902.88	455.33
12/14/2007	0.5800	0.3400	0.5200	0.1400	0.0039	0.0023	0.0035	0.0010	3941.68	2310.64	3533.92	951.44
3/27/2008	0.5500	NS	0.5600	0.0740	0.0037	NS	0.0038	0.0005	3737.80	NS	3805.76	502.90
4/1/2008	NS	0.3600	NS	NS	NS	0.0024	NS	NS	NS	2446.56	NS	NS
6/2/2008	0.7200	0.5600	0.4900	0.1000	0.0049	0.0038	0.0033	0.0007	4893.12	3805.76	3330.04	679.60
9/12/2008	0.4800	0.4700	0.5300	0.1300	0.0033	0.0032	0.0036	0.0009	3262.08	3194.12	3601.88	883.48
11/26/2008	0.4600	NS	0.3600	0.1100	0.0031	NS	0.0024	0.0007	3126.16	NS	2446.56	747.56
3/24/2009	0.4500	NS	0.5500	*0.0050*	0.0031	NS	0.0037	*0.00003*	3058.20	NS	3737.80	33.98
6/15/2009	0.4300	NS	0.4200	0.0200	0.0029	NS	0.0029	0.0001	2922.28	NS	2854.32	135.92
8/21/2009	0.3600	0.1600	0.4700	0.0140	0.0024	0.0011	0.0032	0.0001	2446.56	1087.36	3194.12	95.14
11/5/2009	0.3300	0.1400	0.4100	*0.0050*	0.0022	0.0010	0.0028	*0.00003*	2242.68	951.44	2786.36	33.98
2/5/2010	0.1600	0.0370	0.1400	0.0120	0.0011	0.0003	0.0010	0.0001	1087.36	251.45	951.44	81.55
4/23/2010	0.1300	NS	NS	0.0170	0.0009	NS	NS	0.0001	883.48	NS	NS	115.53
5/6/2010	NS	0.1500	0.2500	NS	NS	0.0010	0.0017	NS	NS	1019.40	1699.00	NS
7/23/2010	0.1500	0.1900	0.1200	*0.0050*	0.0010	0.0013	0.0008	*0.00003*	1019.40	1291.24	815.52	*33.98*
10/13/2010	NS	NS	NS	*0.0050*	NS	NS	NS	*0.00003*	NS	NS	NS	*33.98*
10/15/2010	0.0940	0.0650	*0.0050*	NS	0.0006	0.0004	*0.0000*	NS	638.82	441.74	*33.98*	NS
1/21/2011	0.1400	0.0270	NS	*0.0050*	0.0010	0.0002	NS	*0.00003*	951.44	183.49	NS	*33.98*
4/8/2011	NS	NS	0.2100	NS	NS	NS	0.0014	NS	NS	NS	1427.16	NS
5/11/2011	0.2200	0.2700	0.2100	0.0230	0.0015	0.0018	0.0014	0.0002	1495.12	1834.92	1427.16	156.31
7/29/2011	0.0660	0.1700	0.1100	*0.0050*	0.0004	0.0012	0.0007	*0.00003*	448.54	1155.32	747.56	*33.98*
10/25/2011	0.1100	0.1200	0.0530	*0.0050*	0.0007	0.0008	0.0004	*0.00003*	747.56	815.52	360.19	*33.98*
1/20/2012	0.1000	0.0810	0.0660	*0.0081*	0.0007	0.0006	0.0004	*0.00006*	679.60	550.48	448.54	*55.05*
6/15/2012	0.0710	0.1200	0.0480	*0.0046*	0.0005	0.0008	0.0003	*0.00003*	482.52	815.52	326.21	*31.26*

NS = Not sampled

Italic = Reported concentrations are estimated values (J-flagged values) or below laboratory detection limits. Concentrations of PCE, TCE, and cis-1,2-DCE are assumed to be one-half the laboratory practical quantitation limit (PQL). Concentrations of vinyl chloride are assumed to be 0.015 ppmv, representing the mean detected concentration below laboratory reporting limits.

APPENDIX B

Air Mitigation System - Historical Air Analytical Results

Michigan Plaza

Indianapolis, Indiana

MUNDELL Project No.: M01046

Sample Date	Trichloroethylene (TCE)											
	B-1	B-2	B-3	B-4	B-1	B-2	B-3	B-4	B-1	B-2	B-3	B-4
	(ppmv)				(ppm)				($\mu g/m^3$)			
9/21/2006	0.0240	0.0120	*0.0050*	*0.0050*	0.0001	0.0001	*0.00003*	*0.00003*	129.24	64.62	*26.93*	*26.93*
10/6/2006	0.0120	*0.0050*	*0.0050*	*0.0050*	0.0001	*0.00003*	*0.00003*	*0.00003*	64.62	*26.93*	*26.93*	*26.93*
10/13/2006	*0.0050*	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*	*26.93*
10/20/2006	*0.0050*	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*	*26.93*
11/17/2006	*0.0050*	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*	*26.93*
12/27/2006	*0.0050*	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*	*26.93*
3/30/2007	*0.0050*	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*	*26.93*
6/15/2007	0.4600	*0.0050*	*0.0050*	*0.0050*	0.0025	*0.00003*	*0.00003*	*0.00003*	2,477.10	*26.93*	*26.93*	*26.93*
10/16/2007	*0.0050*	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*	*26.93*
12/14/2007	*0.0050*	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*	*26.93*
3/27/2008	*0.0050*	NS	*0.0050*	*0.0050*	*0.00003*	NS	*0.00003*	*0.00003*	*26.93*	NS	*26.93*	*26.93*
4/1/2008	NS	*0.0050*	NS	NS	NS	*0.0000*	NS	NS	NS	*26.93*	NS	NS
6/2/2008	*0.0050*	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*	*26.93*
9/12/2008	*0.0050*	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*	*26.93*
11/26/2008	*0.0050*	NS	*0.0050*	*0.0050*	*0.00003*	NS	*0.00003*	*0.00003*	*26.93*	NS	*26.93*	*26.93*
3/24/2009	*0.0050*	NS	*0.0050*	*0.0050*	*0.00003*	NS	*0.00003*	*0.00003*	*26.93*	NS	*26.93*	*26.93*
6/15/2009	*0.0050*	NS	*0.0050*	*0.0050*	*0.00003*	NS	*0.00003*	*0.00003*	*26.93*	NS	*26.93*	*26.93*
8/21/2009	*0.0050*	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*	*26.93*
11/5/2009	*0.0050*	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*	*26.93*
2/5/2010	*0.0050*	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*	*26.93*
4/23/2010	*0.0050*	NS	NS	*0.0050*	*0.00003*	NS	NS	*0.00003*	*26.93*	NS	NS	*26.93*
5/6/2010	NS	*0.0050*	*0.0050*	NS	NS	*0.00003*	*0.00003*	NS	NS	*26.93*	*26.93*	NS
7/23/2010	*0.0050*	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*	*26.93*
10/13/2010	NS	NS	NS	*0.0050*	NS	NS	NS	*0.00003*	NS	NS	NS	*26.93*
10/15/2010	*0.0050*	*0.0050*	*0.0050*	NS	*0.00003*	*0.00003*	*0.00003*	NS	*26.93*	*26.93*	*26.93*	NS
1/21/2011	*0.0050*	*0.0050*	NS	*0.0050*	*0.00003*	*0.00003*	NS	*0.00003*	*26.93*	*26.93*	NS	*26.93*
4/8/2011	NS	NS	0.0050	NS	NS	NS	0.00003	NS	NS	NS	26.93	NS
5/11/2011	*0.0050*	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*	*26.93*
7/29/2011	*0.0050*	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*	*26.93*
10/25/2011	*0.0050*	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*	*26.93*
1/20/2012	*0.0050*	*0.0050*	*0.0011*	*0.0050*	*0.00003*	*0.00003*	*0.00001*	*0.00003*	*26.93*	*26.93*	*5.92*	*26.93*
6/15/2012	*0.0013*	*0.0011*	*0.0050*	*0.0050*	*0.00001*	*0.00001*	*0.00003*	*0.00003*	*7.00*	*5.92*	*26.93*	*26.93*

NS = Not sampled

Italic = Reported concentrations are estimated values (J-flagged values) or below laboratory detection limits. Concentrations of PCE, TCE, and cis-1,2-DCE are assumed to be one-half the laboratory practical quantitation limit (PQL). Concentrations of vinyl chloride are assumed to be 0.015 ppmv, representing the mean detected concentration below laboratory reporting limits.

APPENDIX B

Air Mitigation System - Historical Air Analytical Results

Michigan Plaza

Indianapolis, Indiana

MUNDELL Project No.: M01046

Sample Date	Vinyl Chloride											
	B-1	B-2	B-3	B-4	B-1	B-2	B-3	B-4	B-1	B-2	B-3	B-4
	(ppmv)				(ppm)				($\mu g/m^3$)			
9/21/2006	*0.0150*	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*	*38.42*
10/6/2006	*0.0150*	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*	*38.42*
10/13/2006	*0.0150*	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*	*38.42*
10/20/2006	*0.0150*	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*	*38.42*
11/17/2006	*0.0150*	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*	*38.42*
12/27/2006	*0.0150*	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*	*38.42*
3/30/2007	*0.0150*	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*	*38.42*
6/15/2007	*0.0150*	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*	*38.42*
10/16/2007	*0.0150*	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*	*38.42*
12/14/2007	*0.0150*	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*	*38.42*
3/27/2008	*0.0150*	NS	*0.0150*	*0.0150*	*0.00004*	NS	*0.00004*	*0.00004*	*38.42*	NS	*38.42*	*38.42*
4/1/2008	NS	*0.0150*	NS	NS	NS	*0.00004*	NS	NS	NS	*38.42*	NS	NS
6/2/2008	*0.0150*	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*	*38.42*
9/12/2008	*0.0150*	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*	*38.42*
11/26/2008	*0.0150*	NS	*0.0150*	*0.0150*	*0.00004*	NS	*0.00004*	*0.00004*	*38.42*	NS	*38.42*	*38.42*
3/24/2009	*0.0150*	NS	*0.0150*	*0.0150*	*0.00004*	NS	*0.00004*	*0.00004*	*38.42*	NS	*38.42*	*38.42*
6/15/2009	*0.0150*	NS	*0.0150*	*0.0150*	*0.00004*	NS	*0.00004*	*0.00004*	*38.42*	NS	*38.42*	*38.42*
8/21/2009	*0.0150*	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*	*38.42*
11/5/2009	*0.0150*	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*	*38.42*
2/5/2010	*0.0150*	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*	*38.42*
4/23/2010	*0.0150*	NS	NS	*0.0150*	*0.00004*	NS	NS	*0.00004*	*38.42*	NS	NS	*38.42*
5/6/2010	NS	*0.0150*	*0.0150*	NS	NS	*0.00004*	*0.00004*	NS	NS	*38.42*	*38.42*	NS
7/23/2010	*0.0150*	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*	*38.42*
10/13/2010	NS	NS	NS	*0.0150*	NS	NS	NS	*0.00004*	NS	NS	NS	*38.42*
10/15/2010	*0.0150*	*0.0150*	*0.0150*	NS	*0.00004*	*0.00004*	*0.00004*	NS	*38.42*	*38.42*	*38.42*	NS
1/21/2011	*0.0150*	*0.0150*	NS	*0.0150*	*0.00004*	*0.00004*	NS	*0.00004*	*38.42*	*38.42*	NS	*38.42*
4/8/2011	NS	NS	*0.0150*	NS	NS	NS	*0.00004*	NS	NS	NS	38.42	NS
5/11/2011	*0.0150*	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*	*38.42*
7/29/2011	*0.0150*	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*	*38.42*
10/25/2011	*0.0150*	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*	*38.42*
1/20/2012	*0.2000*	*0.1100*	*0.0150*	*0.0150*	*0.00051*	*0.00028*	*0.00004*	*0.00004*	*512.20*	*281.71*	*38.42*	*38.42*
6/15/2012	*0.0150*	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*	*38.42*

NS = Not sampled

Italic = Reported concentrations are estimated values (J-flagged values) or below laboratory detection limits. Concentrations of PCE, TCE, and cis-1,2-DCE are assumed to be one-half the laboratory practical quantitation limit (PQL). Concentrations of vinyl chloride are assumed to be 0.015 ppmv, representing the mean detected concentration below laboratory reporting limits.

APPENDIX B

Air Mitigation System - Historical Air Analytical Results

Michigan Plaza

Indianapolis, Indiana

MUNDELL Project No.: M01046

Sample Date	cis-1,2-Dichloroethylene											
	B-1	B-2	B-3	B-4	B-1	B-2	B-3	B-4	B-1	B-2	B-3	B-4
	(ppmv)				(ppm)				($\mu g/m^3$)			
9/21/2006	0.1400	*0.0100*	*0.0100*	*0.0100*	0.0006	*0.00004*	*0.00004*	*0.00004*	556.22	*39.73*	*39.73*	*39.73*
10/6/2006	0.0300	*0.0100*	*0.0100*	*0.0100*	0.0001	*0.00004*	*0.00004*	*0.00004*	119.19	*39.73*	*39.73*	*39.73*
10/13/2006	*0.0100*	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*	*39.73*
10/20/2006	*0.0100*	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*	*39.73*
11/17/2006	*0.0100*	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*	*39.73*
12/27/2006	0.0240	*0.0100*	*0.0100*	*0.0100*	0.0001	*0.00004*	*0.00004*	*0.00004*	95.35	*39.73*	*39.73*	*39.73*
3/30/2007	*0.0100*	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*	*39.73*
6/15/2007	0.2100	*0.0100*	*0.0100*	*0.0100*	0.0008	*0.00004*	*0.00004*	*0.00004*	834.33	*39.73*	*39.73*	*39.73*
10/16/2007	*0.0100*	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*	*39.73*
12/14/2007	*0.0100*	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*	*39.73*
3/27/2008	0.0340	NS	*0.0100*	*0.0100*	0.0001	NS	*0.00004*	*0.00004*	135.08	NS	*39.73*	*39.73*
4/1/2008	NS	*0.0100*	NS	NS	NS	*0.00004*	NS	NS	NS	*39.73*	NS	NS
6/2/2008	*0.0100*	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*	*39.73*
9/12/2008	*0.0100*	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*	*39.73*
11/26/2008	*0.0100*	NS	*0.0100*	*0.0100*	*0.00004*	NS	*0.00004*	*0.00004*	*39.73*	NS	*39.73*	*39.73*
3/24/2009	*0.0100*	NS	*0.0100*	*0.0100*	*0.00004*	NS	*0.00004*	*0.00004*	*39.73*	NS	*39.73*	*39.73*
6/15/2009	*0.0100*	NS	*0.0100*	*0.0100*	*0.00004*	NS	*0.00004*	*0.00004*	*39.73*	NS	*39.73*	*39.73*
8/21/2009	*0.0100*	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*	*39.73*
11/5/2009	*0.0100*	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*	*39.73*
2/5/2010	*0.0100*	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*	*39.73*
4/23/2010	*0.0100*	NS	NS	*0.0100*	*0.00004*	NS	NS	*0.00004*	*39.73*	NS	NS	*39.73*
5/6/2010	NS	*0.0100*	*0.0100*	NS	NS	*0.00004*	*0.00004*	NS	NS	*39.73*	*39.73*	NS
7/23/2010	*0.0100*	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*	*39.73*
10/13/2010	NS	NS	NS	*0.0100*	NS	NS	NS	*0.00004*	NS	NS	NS	*39.73*
10/15/2010	*0.0100*	*0.0100*	*0.0100*	NS	*0.00004*	*0.00004*	*0.00004*	NS	*39.73*	*39.73*	*39.73*	NS
1/21/2011	*0.0100*	*0.0100*	NS	*0.0100*	*0.00004*	*0.00004*	NS	*0.00004*	*39.73*	*39.73*	NS	*39.73*
4/8/2011	NS	NS	0.0500	NS	NS	NS	0.0002	NS	NS	NS	198.65	NS
5/11/2011	*0.0100*	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*	*39.73*
7/29/2011	*0.0100*	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*	*39.73*
10/25/2011	*0.0100*	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*	*39.73*
1/20/2012	*0.0100*	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*	*39.73*
6/15/2012	*0.0100*	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*	*39.73*

NS = Not sampled

Italic = Reported concentrations are estimated values (J-flagged values) or below laboratory detection limits. Concentrations of PCE, TCE, and cis-1,2-DCE are assumed to be one-half the laboratory practical quantitation limit (PQL). Concentrations of vinyl chloride are assumed to be 0.015 ppmv, representing the mean detected concentration below laboratory reporting limits.

APPENDIX B

Air Mitigation System - Historical Air Analytical Results

Michigan Meadows Apartments

Indianapolis, Indiana

MUNDELL Project No.: M01046

Sample Date	Perchloroethylene (PCE)								
	B-5	B-6	B-7	B-5	B-6	B-7	B-5	B-6	B-7
	(ppmv)			(ppm)			($\mu g/m^3$)		
3/27/2008	0.1300	1.2000	NS	0.0009	0.0082	NS	883.48	8155.20	NS
3/28/2008	0.0730	0.4900	NS	0.0005	0.0033	NS	496.11	3330.04	NS
4/7/2008	NS	NS	0.0760	NS	NS	0.0005	NS	NS	516.50
4/8/2008	NS	NS	0.0470	NS	NS	0.0003	NS	NS	319.41
4/24/2008	0.0540	0.1100	0.0220	0.0004	0.0007	0.0001	366.98	747.56	149.51
5/1/2008	0.0580	0.2100	0.0390	0.0004	0.0014	0.0003	394.17	1427.16	265.04
6/2/2008	0.0590	0.2200	0.0530	0.0004	0.0015	0.0004	400.96	1495.12	360.19
7/10/2008	0.0650	NS	0.0540	0.0004	NS	0.0004	441.74	NS	366.98
8/20/2008	NS	0.2700	NS	NS	0.0018	NS	NS	1834.92	NS
9/12/2008	0.0690	0.1800	0.0540	0.0005	0.0012	0.0004	468.92	1223.28	366.98
11/26/2008	0.0720	0.1100	0.0560	0.0005	0.0007	0.0004	489.31	747.56	380.58
3/24/2009	0.2100	0.1300	0.0590	0.0014	0.0009	0.0004	1427.16	883.48	400.96
6/15/2009	0.0580	0.0840	*0.0050*	0.0004	0.0006	*0.00003*	394.17	570.86	*33.98*
8/21/2009	0.0630	0.0710	*0.0050*	0.0004	0.0005	*0.00003*	428.15	482.52	*33.98*
11/5/2009	0.1300	0.1100	*0.0050*	0.0009	0.0007	*0.00003*	883.48	747.56	*33.98*
2/5/2010	0.0220	0.0800	*0.0050*	0.0001	0.0005	*0.00003*	149.51	543.68	*33.98*
2/6/2010	0.0220	0.0800	*0.0050*	0.0001	0.0005	*0.00003*	149.51	543.68	*33.98*
4/23/2010	0.0120	NS	*0.0050*	0.0001	NS	*0.00003*	81.55	NS	*33.98*
5/12/2010	NS	0.1300	NS	NS	0.0009	NS	NS	883.48	NS
7/23/2010	0.0270	0.1000	*0.0050*	0.0002	0.0007	*0.00003*	183.49	679.60	*33.98*
10/15/2010	0.0150	0.0190	*0.0050*	0.0001	0.0001	*0.00003*	101.94	129.12	*33.98*
1/21/2011	0.0330	0.0490	*0.0050*	0.0002	0.0003	*0.00003*	224.27	333.00	*33.98*
5/11/2011	0.0580	0.0610	*0.0050*	0.0004	0.0004	*0.00003*	394.17	414.56	*33.98*
7/29/2011	0.0220	0.0210	*0.0050*	0.0001	0.0001	*0.00003*	149.51	142.72	*33.98*
10/25/2011	0.0300	0.0250	*0.0050*	0.0002	0.0002	*0.00003*	203.88	169.90	*33.98*
1/20/2012	0.0220	0.0180	*0.0029*	0.0001	0.0001	*0.00002*	149.51	122.33	*19.71*
6/15/2012	0.0140	0.0110	*0.0025*	0.0001	0.0001	*0.00002*	95.14	74.76	*16.99*

NS = Not sampled

Italic = Reported concentrations are estimated values (J-flagged values) or below laboratory detection limits. Concentrations of PCE, TCE, and cis-1,2-DCE are assumed to be one-half the laboratory practical quantitation limit (PQL). Concentrations of vinyl chloride are assumed to be 0.015 ppmv, representing the mean detected concentration below laboratory reporting limits.

APPENDIX B

Air Mitigation System - Historical Air Analytical Results

Michigan Meadows Apartments

Indianapolis, Indiana

MUNDELL Project No.: M01046

Sample Date	Trichloroethylene (TCE)								
	B-5	B-6	B-7	B-5	B-6	B-7	B-5	B-6	B-7
	(ppmv)			(ppm)			($\mu g/m^3$)		
3/27/2008	*0.0050*	*0.0050*	NS	*0.00003*	*0.00003*	NS	*26.93*	*26.93*	NS
3/28/2008	*0.0050*	*0.0050*	NS	*0.00003*	*0.00003*	NS	*26.93*	*26.93*	NS
4/7/2008	NS	NS	*0.0050*	NS	NS	*0.00003*	NS	NS	*26.93*
4/8/2008	NS	NS	*0.0050*	NS	NS	*0.00003*	NS	NS	*26.93*
4/24/2008	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*
5/1/2008	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*
6/2/2008	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*
7/10/2008	*0.0050*	NS	*0.0050*	*0.00003*	NS	*0.00003*	*26.93*	NS	*26.93*
8/20/2008	NS	*0.0050*	NS	NS	*0.00003*	NS	NS	*26.93*	NS
9/12/2008	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*
11/26/2008	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*
3/24/2009	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*
6/15/2009	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*
8/21/2009	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*
11/5/2009	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*
2/5/2010	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*
2/6/2010	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*
4/23/2010	*0.0050*	NS	*0.0050*	*0.00003*	NS	*0.00003*	*26.93*	NS	*26.93*
5/12/2010	NS	*0.0050*	NS	NS	*0.00003*	NS	NS	*26.93*	NS
7/23/2010	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*
10/15/2010	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*
1/21/2011	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*
5/11/2011	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*
7/29/2011	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*
10/25/2011	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*
1/20/2012	*0.0012*	*0.0050*	*0.0050*	*0.00001*	*0.00003*	*0.00003*	*6.46*	*26.93*	*26.93*
6/15/2012	*0.0015*	*0.0050*	*0.0050*	*0.00001*	*0.00003*	*0.00003*	*8.08*	*26.93*	*26.93*

NS = Not sampled

Italic = Reported concentrations are estimated values (J-flagged values) or below laboratory detection limits. Concentrations of PCE, TCE, and cis-1,2-DCE are assumed to be one-half the laboratory practical quantitation limit (PQL). Concentrations of vinyl chloride are assumed to be 0.015 ppmv, representing the mean detected concentration below laboratory reporting limits.

APPENDIX B

Air Mitigation System - Historical Air Analytical Results

Michigan Meadows Apartments

Indianapolis, Indiana

MUNDELL Project No.: M01046

Sample Date	Vinyl Chloride								
	B-5	B-6	B-7	B-5	B-6	B-7	B-5	B-6	B-7
	(ppmv)			(ppm)			($\mu g/m^3$)		
3/27/2008	*0.0150*	*0.0150*	NS	*0.00004*	*0.00004*	NS	*38.42*	*38.42*	NS
3/28/2008	*0.0150*	*0.0150*	NS	*0.00004*	*0.00004*	NS	*38.42*	*38.42*	NS
4/7/2008	NS	NS	*0.0150*	NS	NS	*0.00004*	NS	NS	*38.42*
4/8/2008	NS	NS	*0.0150*	NS	NS	*0.00004*	NS	NS	*38.42*
4/24/2008	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*
5/1/2008	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*
6/2/2008	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*
7/10/2008	*0.0150*	NS	*0.0150*	*0.00004*	NS	*0.00004*	*38.42*	NS	38.42
8/20/2008	NS	*0.0150*	NS	NS	*0.00004*	NS	NS	*38.42*	NS
9/12/2008	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*
11/26/2008	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*
3/24/2009	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*
6/15/2009	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*
8/21/2009	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*
11/5/2009	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*
2/5/2010	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*
2/6/2010	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*
4/23/2010	*0.0150*	NS	*0.0150*	*0.00004*	NS	*0.00004*	*38.42*	NS	*38.42*
5/12/2010	NS	*0.0150*	NS	NS	*0.00004*	NS	NS	*38.42*	NS
7/23/2010	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*
10/15/2010	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*
1/21/2011	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*
5/11/2011	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*
7/29/2011	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*
10/25/2011	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*
1/20/2012	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*
6/15/2012	*0.3300*	*0.1400*	*0.1200*	*0.00085*	*0.00036*	*0.00031*	*845.13*	*358.54*	*307.32*

NS = Not sampled

Italic = Reported concentrations are estimated values (J-flagged values) or below laboratory detection limits. Concentrations of PCE, TCE, and cis-1,2-DCE are assumed to be one-half the laboratory practical quantitation limit (PQL). Concentrations of vinyl chloride are assumed to be 0.015 ppmv, representing the mean detected concentration below laboratory reporting limits.

APPENDIX B

Air Mitigation System - Historical Air Analytical Results

Michigan Meadows Apartments

Indianapolis, Indiana

MUNDELL Project No.: M01046

Sample Date	cis-1,2-Dichloroethylene								
	B-5	B-6	B-7	B-5	B-6	B-7	B-5	B-6	B-7
	(ppmv)			(ppm)			($\mu g/m^3$)		
3/27/2008	*0.0100*	*0.0100*	NS	*0.00004*	*0.00004*	NS	*39.73*	*39.73*	NS
3/28/2008	*0.0100*	*0.0100*	NS	*0.00004*	*0.00004*	NS	*39.73*	*39.73*	NS
4/7/2008	NS	NS	*0.0100*	NS	NS	*0.00004*	NS	NS	*39.73*
4/8/2008	NS	NS	*0.0100*	NS	NS	*0.00004*	NS	NS	*39.73*
4/24/2008	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*
5/1/2008	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*
6/2/2008	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*
7/10/2008	*0.0100*	NS	*0.0100*	*0.00004*	NS	*0.00004*	*39.73*	NS	*39.73*
8/20/2008	NS	*0.0100*	NS	NS	*0.00004*	NS	NS	39.73	NS
9/12/2008	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*
11/26/2008	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*
3/24/2009	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*
6/15/2009	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*
8/21/2009	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*
11/5/2009	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*
2/5/2010	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*
2/6/2010	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*
4/23/2010	*0.0100*	NS	*0.0100*	*0.00004*	NS	*0.00004*	*39.73*	NS	*39.73*
5/12/2010	NS	*0.0100*	NS	NS	*0.00004*	NS	NS	*39.73*	NS
7/23/2010	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*
10/15/2010	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*
1/21/2011	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*
5/11/2011	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*
7/29/2011	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*
10/25/2011	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*
1/20/2012	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*
6/15/2012	*0.0100*	*0.0100*	0.0340	*0.00004*	*0.00004*	0.00014	*39.73*	*39.73*	135.08

NS = Not sampled

Italic = Reported concentrations are estimated values (J-flagged values) or below laboratory detection limits. Concentrations of PCE, TCE, and cis-1,2-DCE are assumed to be one-half the laboratory practical quantitation limit (PQL). Concentrations of vinyl chloride are assumed to be 0.015 ppmv, representing the mean detected concentration below laboratory reporting limits.

Lab Data for Air Mitigation System B-1
Second Quarter 2012
6/15/2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

B-1 (Lab Data)

Sample Date	Hours per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	µg/m3 PCE	Lbs. PCE removed	µg/m3 TCE	Lbs. TCE removed	µg/m3 VC	Lbs. VC removed	µg/m3 cis-1,2-DCE	Lbs. cis-1,2-DCE removed	Lbs. Total Pollutants Removed (ug/m3)	Cumulative PCE lbs Removed	Cumulative Total Pollutant lbs Removed
9/21/2006	0.5	73	2,190	4,281	0.00	129	0.00	38	0.00	556	0.00	0.00	0.00	0.00
10/6/2006	360	73	1,576,800	5,980	0.59	65	0.01	38	0.00	119	0.01	0.61	0.59	0.61
10/13/2006	168	73	735,840	4,621	0.21	27	0.00	38	0.00	40	0.00	0.22	0.80	0.83
10/20/2006	168	73	735,840	5,913	0.27	27	0.00	38	0.00	40	0.00	0.28	1.07	1.10
11/17/2006	672	73	2,943,360	5,505	1.01	27	0.00	38	0.01	40	0.01	1.03	2.08	2.13
12/27/2006	960	73	4,204,800	5,029	1.32	27	0.01	38	0.01	95	0.03	1.36	3.40	3.50
3/30/2007	2,232	73	9,776,160	3,466	2.11	27	0.02	38	0.02	40	0.02	2.18	5.52	5.67
6/15/2007	1,848	73	8,094,240	34	0.02	2,477	1.25	38	0.02	834	0.42	1.71	5.53	7.38
10/16/2007	2,952	73	12,929,760	2,650	2.14	27	0.02	38	0.03	40	0.03	2.22	7.67	9.60
12/14/2007	1,416	73	6,202,080	3,942	1.52	27	0.01	38	0.01	40	0.02	1.57	9.20	11.17
3/27/2008	2,496	73	10,932,480	3,738	2.55	27	0.02	38	0.03	135	0.09	2.69	11.74	13.86
6/2/2008	1,608	73	7,043,040	4,893	2.15	27	0.01	38	0.02	40	0.02	2.20	13.89	16.05
9/12/2008	2,448	73	10,722,240	3,262	2.18	27	0.02	38	0.03	40	0.03	2.25	16.08	18.30
11/26/2008	1,800	73	7,884,000	3,126	1.54	27	0.01	38	0.02	40	0.02	1.59	17.61	19.89
3/24/2009	2,832	73	12,404,160	3,058	2.37	27	0.02	38	0.03	40	0.03	2.45	19.98	22.34
6/15/2009	1,992	73	8,724,960	2,922	1.59	27	0.01	38	0.02	40	0.02	1.65	21.57	23.99
8/21/2009	1,608	73	7,043,040	2,447	1.07	27	0.01	38	0.02	40	0.02	1.12	22.65	25.11
11/5/2009	1,824	73	7,989,120	2,243	1.12	27	0.01	38	0.02	40	0.02	1.17	23.76	26.28
2/5/2010	2,208	73	9,671,040	1,087	0.66	27	0.02	38	0.02	40	0.02	0.72	24.42	27.00
4/23/2010	1,848	55	6,098,400	883	0.34	27	0.01	38	0.01	40	0.02	0.38	24.75	27.37
7/23/2010	2,184	55	7,207,200	1,019	0.46	27	0.01	38	0.02	40	0.02	0.51	25.21	27.88
10/15/2010	2,016	73	8,830,080	639	0.35	27	0.01	38	0.02	40	0.02	0.41	25.57	28.29
1/21/2011	2,352	55	7,761,600	951	0.46	27	0.01	38	0.02	40	0.02	0.51	26.03	28.80
5/11/2011	2,640	73	11,563,200	1,495	1.08	27	0.02	38	0.03	40	0.03	1.15	27.10	29.95
7/29/2011	1,896	73	8,304,480	449	0.23	27	0.01	38	0.02	40	0.02	0.29	27.34	30.24
10/25/2011	2,112	55	6,969,600	748	0.33	27	0.01	38	0.02	40	0.02	0.37	27.66	30.61
1/20/2012	2,088	55	6,890,400	680	0.29	27	0.01	512	0.22	40	0.02	0.54	27.95	31.15
6/15/2012	3,528	55	11,642,400	483	0.35	7	0.01	38	0.03	40	0.03	0.41	28.30	31.57
TOTALS:	**50,257**		**204,882,510**		**28**		**2**		**1**		**1**	**31.57**		

B-1 (PID Readings)

Sample Date	Hours Per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	PID Reading (ppm VOCs)	µg/m3 VOCs	Lbs. VOCs Removed	Cum Total lbs Removed (Est from PID)
11/17/2006	672	73	2,943,360	0.1	1,483	0.27	0.27
12/27/2006	960	73	4,204,800	0.0	1,296	0.34	0.61
6/15/2007	4,080	73	17,870,400	0.1	1,483	1.65	2.26
10/16/2007	2,952	73	12,929,760	0.1	1,483	1.20	3.46
12/14/2007	1,416	73	6,202,080	0.1	1,483	0.57	4.03
6/2/2008	4,104	73	17,975,520	2.2	5,401	6.06	10.09
9/12/2008	2,448	73	10,722,240	0.3	1,856	1.24	11.33
11/26/2008	1,800	73	7,884,000	0.1	1,483	0.73	12.06
8/21/2009	6,432	73	28,172,160	3.8	8,387	14.74	26.80
11/5/2009	1,824	73	7,989,120	2.1	5,215	2.60	29.40
2/5/2010	2,208	73	9,671,040	2.3	5,588	3.37	32.77
5/6/2010	2,160	55	7,128,000	2.2	5,401	2.40	35.17
10/15/2010	3,888	73	17,029,440	2.0	5,028	5.34	40.51
1/21/2011	2,352	55	7,761,600	1.9	4,841	2.34	42.86
5/11/2011	2,640	73	11,563,200	1.9	4,841	3.49	46.35
7/29/2011	1,896	73	8,304,480	1.1	3,349	1.73	48.08
10/25/2011	2,112	55	6,969,600	2.1	5,215	2.27	50.35
1/20/2012	2,088	55	6,890,400	1.7	4,468	1.92	52.27
6/15/2012	3,528	55	11,642,400	2.4	5,774	4.19	56.46
TOTALS:	**46,032**		**203,853,600**			**56.46**	

Lab Data for Air Mitigation System B-2
Second Quarter 2012
6/15/2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

B-2 (Lab Data)

Sample Date	Hours per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	µg/m3 PCE	Lbs. PCE removed	µg/m3 TCE	Lbs. TCE removed	µg/m3 VC	Lbs. VC removed	µg/m3 cis-1,2-DCE	Lbs. cis-1,2-DCE removed	Lbs. Total Pollutants Removed	Cumulative PCE lbs Removed	Cumulative Total Pollutant lbs Removed
9/21/2006	0.5	37	1,110	5,369	0.00	65	0.00	38	0.00	40	0.00	0.00	0.00	0.00
10/6/2006	360	37	799,200	4,553	0.23	27	0.00	38	0.00	40	0.00	0.23	0.23	0.23
10/13/2006	168	37	372,960	2,447	0.06	27	0.00	38	0.00	40	0.00	0.06	0.28	0.29
10/20/2006	168	37	372,960	3,738	0.09	27	0.00	38	0.00	40	0.00	0.09	0.37	0.38
11/17/2006	672	37	1,491,840	3,194	0.30	27	0.00	38	0.00	40	0.00	0.31	0.67	0.69
12/27/2006	960	37	2,131,200	3,194	0.42	27	0.00	38	0.01	40	0.01	0.44	1.09	1.13
3/30/2007	2,232	38	5,088,960	1,223	0.39	27	0.01	38	0.01	40	0.01	0.42	1.48	1.55
6/15/2007	1,848	42	4,656,960	2,107	0.61	27	0.01	38	0.01	40	0.01	0.64	2.09	2.19
10/16/2007	2,952	48	8,501,760	1,631	0.86	27	0.01	38	0.02	40	0.02	0.92	2.96	3.11
12/14/2007	1,416	53	4,502,880	2,311	0.65	27	0.01	38	0.01	40	0.01	0.68	3.61	3.79
4/1/2008	2,616	50	7,848,000	2,447	1.20	27	0.01	38	0.02	40	0.02	1.25	4.81	5.04
6/2/2008	1,488	42	3,705,120	3,806	0.88	27	0.01	38	0.01	40	0.01	0.90	5.68	5.94
9/12/2008	2,448	37	5,434,560	3,194	1.08	27	0.01	38	0.01	40	0.01	1.12	6.77	7.06
8/21/2009	1,440	37	3,196,800	1,087	0.22	27	0.01	38	0.01	40	0.01	0.24	6.98	7.30
11/5/2009	1,824	37	4,049,280	951	0.24	27	0.01	38	0.01	40	0.01	0.27	7.22	7.57
2/5/2010	2,208	55	7,286,400	251	0.11	27	0.01	38	0.02	40	0.02	0.16	7.34	7.73
5/6/2010	2,160	37	4,795,200	1,019	0.30	27	0.01	38	0.01	40	0.01	0.34	7.64	8.06
7/23/2010	1,872	37	4,155,840	1,291	0.33	27	0.01	38	0.01	40	0.01	0.36	7.98	8.43
10/15/2010	2,016	55	6,652,800	442	0.18	27	0.01	38	0.02	40	0.02	0.23	8.16	8.65
1/21/2011	2,352	55	7,761,600	183	0.09	27	0.01	38	0.02	40	0.02	0.14	8.25	8.79
5/11/2011	2,640	37	5,860,800	1,835	0.67	27	0.01	38	0.01	40	0.01	0.71	8.92	9.50
7/29/2011	1,896	37	4,209,120	1,155	0.30	27	0.01	38	0.01	40	0.01	0.33	9.23	9.83
10/25/2011	2,112	37	4,688,640	816	0.24	27	0.01	38	0.01	40	0.01	0.27	9.16	10.10
1/20/2012	2,088	37	4,635,360	550	0.16	27	0.01	282	0.08	40	0.01	0.26	9.38	10.36
6/15/2012	3,528	37	7,832,160	816	0.40	6	0.00	38	0.02	40	0.02	0.44	9.56	10.80
TOTALS:	**43,465**		**110,031,510**		**10.02**		**0.17**		**0.33**		**0.27**	**10.80**		

B-2 (PID Readings)

Sample Date	Hours Per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	PID Reading (ppm VOCs)	µg/m3 VOCs	Lbs. VOCs Removed	Cum Total lbs Removed (Est from PID)
11/17/2006	672.0	37	1,491,840	0.1	1,483	0.14	0.14
12/27/2006	960	37	2,131,200	0.1	1,483	0.20	0.34
6/15/2007	4,080	37	9,057,600	0.1	1,483	0.84	1.17
10/16/2007	2,952	37	6,553,440	0.1	1,483	0.61	1.78
12/14/2007	1,416	55	4,672,800	0.1	1,483	0.43	2.21
6/2/2008	4,104	132	32,503,680	1.5	4,095	8.30	10.51
9/12/2008	2,448	37	5,434,560	0.5	2,229	0.76	11.27
8/21/2009	8,232	55	27,165,600	2.4	5,774	9.79	21.05
11/5/2009	1,824	94	10,287,360	1.6	4,282	2.75	23.80
2/5/2010	2,208	55	7,286,400	0.6	2,416	1.10	24.90
5/6/2010	2,160	37	4,795,200	1.4	3,908	1.17	26.07
10/15/2010	3,888	55	12,830,400	3.2	7,267	5.82	31.89
1/21/2011	2,352	55	7,761,600	1.4	3,908	1.89	33.78
5/11/2011	2,640	37	5,860,800	1.6	4,282	1.57	35.34
7/29/2011	1,896	37	4,209,120	1.7	4,468	1.2	36.52
10/25/2011	2,112	37	4,688,640	1.9	4,841	1.4	37.93
1/20/2012	2,088	37	4,635,360	1.5	4,095	1.2	39.12
6/15/2012	3,528	37	7,832,160	2.8	6,521	3.2	42.30
TOTALS:	**49,560**		**159,197,760**			**42.30**	

Lab Data for Air Mitigation System B-3
Second Quarter 2012
6/15/2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

B-3 (Lab Data)

Sample Date	Hours per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	µg/m3 PCE	Lbs. PCE removed	µg/m3 TCE	Lbs. TCE removed	µg/m3 VC	Lbs. VC removed	µg/m3 cis-1,2-DCE	Lbs. cis-1,2-DCE removed	Lbs. Total Pollutants Removed	Cumulative PCE lbs Removed	Cumulative Total Pollutant lbs Removed
9/21/2006	0.5	132	3,960	4,553	0.00	27	0.00	38	0.00	40	0.00	0.00	0.00	0.00
10/6/2006	360	132	2,851,200	6,592	1.17	27	0.00	38	0.01	40	0.01	1.19	1.17	1.19
10/13/2006	168	132	1,330,560	3,534	0.29	27	0.00	38	0.00	40	0.00	0.30	1.47	1.49
10/20/2006	168	132	1,330,560	6,048	0.50	27	0.00	38	0.00	40	0.00	0.51	1.97	2.01
11/17/2006	672	132	5,322,240	5,301	1.76	27	0.01	38	0.01	40	0.01	1.79	3.73	3.80
12/27/2006	960	132	7,603,200	5,097	2.42	27	0.01	38	0.02	40	0.02	2.47	6.15	6.27
3/30/2007	2,232	132	17,677,440	3,874	4.27	27	0.03	38	0.04	40	0.04	4.39	10.42	10.65
6/15/2007	1,848	132	14,636,160	1,427	1.30	27	0.02	38	0.04	40	0.04	1.40	11.72	12.05
10/16/2007	2,952	132	23,379,840	1,903	2.78	27	0.04	38	0.06	40	0.06	2.93	14.50	14.98
12/14/2007	1,416	132	11,214,720	3,534	2.47	27	0.02	38	0.03	40	0.03	2.55	16.97	17.53
3/27/2008	2,496	132	19,768,320	3,806	4.69	27	0.03	38	0.05	40	0.05	4.82	21.66	22.35
6/2/2008	1,608	55	5,306,400	3,330	1.10	27	0.01	38	0.01	40	0.01	1.14	22.76	23.49
9/12/2008	2,448	132	19,388,160	3,602	4.36	27	0.03	38	0.05	40	0.05	4.48	27.12	27.97
11/26/2008	1,800	132	14,256,000	2,447	2.18	27	0.02	38	0.03	40	0.04	2.27	29.30	30.24
3/24/2009	2,832	132	22,429,440	3,738	5.23	27	0.04	38	0.05	40	0.06	5.38	34.52	35.62
6/15/2009	1,992	132	15,776,640	2,854	2.81	27	0.03	38	0.04	40	0.04	2.91	37.33	38.53
8/21/2009	1,608	132	12,735,360	3,194	2.54	27	0.02	38	0.03	40	0.03	2.62	39.87	41.15
11/5/2009	1,824	132	14,446,080	2,786	2.51	27	0.02	38	0.03	40	0.04	2.61	42.38	43.75
2/5/2010	2,208	132	17,487,360	951.44	1.04	26.93	0.03	38	0.04	40	0.04	1.15	43.42	44.91
5/6/2010	2,160	132	17,107,200	1,699	1.81	27	0.03	38	0.04	40	0.04	1.93	45.23	46.83
7/23/2010	1,872	132	14,826,240	816	0.75	27	0.02	38	0.04	40	0.04	0.85	45.99	47.68
10/15/2010	2,016	132	15,966,720	34	0.03	27	0.03	38	0.04	40	0.04	0.14	46.02	47.82
1/21/2011	2,352	132	18,627,840	NS	0.00	NS	0.00	NS	0.00	NS	0.00	0.00	46.02	47.82
4/8/2011	1,848	132	14,636,160	1,427	1.30	27	0.02	38	0.04	199	0.18	1.54	47.32	49.37
5/11/2011	792	132	6,272,640	1,427	0.56	27	0.01	38	0.02	40	0.02	0.60	47.88	49.97
7/29/2011	1,896	132	15,016,320	748	0.70	27	0.03	38	0.04	40	0.04	0.80	48.58	50.76
10/25/2011	2,112	132	16,727,040	360	0.38	27	0.03	38	0.04	40	0.04	0.49	48.96	51.25
1/20/2012	2,088	55	6,890,400	449	0.19	6	0.00	38	0.02	40	0.02	0.23	49.15	51.48
6/15/2012	3,528	132	27,941,760	326	0.57	27	0.05	38	0.07	40	0.07	0.75	49.72	52.23
TOTALS:	**50,257**		**380,955,960**		**49.72**		**0.60**		**0.87**		**1.04**	**52.23**		

B-3 (PID Readings)

Sample Date	Hours Per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	PID Reading (ppm VOCs)	µg/m3 VOCs	Lbs. VOCs Removed	Cum Total lbs Removed (Est from PID)
11/17/2006	672	132	5,322,240	2.0	5,028	1.67	1.67
12/27/2006	960	132	7,603,200	0.1	1,483	0.70	2.37
6/15/2007	4,080	132	32,313,600	0.1	1,483	2.99	5.36
10/16/2007	2,952	132	23,379,840	0.1	1,483	2.16	7.52
12/14/2007	1,416	132	11,214,720	0.1	1,483	1.04	8.56
6/2/2008	4,104	55	13,543,200	1.2	3,535	2.99	11.55
9/12/2008	2,448	132	19,388,160	0.5	2,229	2.70	14.24
11/26/2008	1,800	132	14,256,000	0.8	2,789	2.48	16.72
8/21/2009	6,432	132	50,941,440	0.0	1,296	4.12	20.84
11/5/2009	1,824	132	14,446,080	1.8	4,655	4.19	25.04
2/5/2010	2,208	132	17,487,360	1.5	4,095	4.47	29.50
5/6/2010	2,160	132	17,107,200	1.7	4,468	4.77	34.27
10/15/2010	3,888	132	30,792,960	0.1	1,483	2.85	37.12
1/21/2011	2,352	132	18,627,840	1.4	3,908	4.54	41.66
4/8/2011	1,848	132	14,636,160	2.4	5,774	5.27	46.93
5/11/2011	792	132	6,272,640	1.2	3,535	1.38	48.32
7/29/2011	1,896	132	15,016,320	1.3	3,722	3.5	51.80
10/25/2011	2,112	132	16,727,040	1.5	4,095	4.3	56.07
1/20/2012	2,088	55	6,890,400	1.4	3,908	1.7	57.75
6/15/2012	3,528	132	27,941,760	1.4	3,908	6.8	64.57
TOTALS:	**49,560**		**363,908,160**			**64.57**	

Lab Data for Air Mitigation System B-4
Second Quarter 2012
6/15/2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

B-4 (Lab Data)

Sample Date	Hours per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	µg/m3 PCE	Lbs. PCE removed	µg/m3 TCE	Lbs. TCE removed	µg/m3 VC	Lbs. VC removed	µg/m3 cis-1,2-DCE	Lbs. cis-1,2-DCE removed	Lbs. Total Pollutants Removed	Cumulative PCE lbs Removed	Cumulative Total Pollutant lbs Removed
9/21/2006	0.5	132	3,960	1,903	0.00	27	0.00	38	0.00	40	0.00	0.00	0.00	0.00
10/6/2006	360	132	2,851,200	2,107	0.37	27	0.00	38	0.01	40	0.01	0.39	0.38	0.39
10/13/2006	168	132	1,330,560	1,427	0.12	27	0.00	38	0.00	40	0.00	0.13	0.49	0.52
10/20/2006	168	132	1,330,560	1,495	0.12	27	0.00	38	0.00	40	0.00	0.13	0.62	0.65
11/17/2006	672	132	5,322,240	1,019	0.34	27	0.01	38	0.01	40	0.01	0.37	0.96	1.03
12/27/2006	960	132	7,603,200	748	0.35	27	0.01	38	0.02	40	0.02	0.40	1.31	1.43
3/30/2007	2,232	130	17,342,640	211	0.23	27	0.03	38	0.04	40	0.04	0.34	1.54	1.77
6/15/2007	1,848	125	13,887,720	3,126	2.71	27	0.02	38	0.03	40	0.03	2.80	4.25	4.57
10/16/2007	2,952	128	22,627,080	455	0.64	27	0.04	38	0.05	40	0.06	0.79	4.89	5.36
12/14/2007	1,416	132	11,214,720	951	0.67	27	0.02	38	0.03	40	0.03	0.74	5.56	6.10
3/27/2008	2,496	128	19,094,400	503	0.60	27	0.03	38	0.05	40	0.05	0.72	6.15	6.83
6/2/2008	1,608	119	11,481,120	680	0.49	27	0.02	38	0.03	40	0.03	0.56	6.64	7.39
9/12/2008	2,448	132	19,388,160	883	1.07	27	0.03	38	0.05	40	0.05	1.20	7.71	8.58
11/26/2008	1,800	132	14,256,000	748	0.66	27	0.02	38	0.03	40	0.04	0.76	8.37	9.34
3/24/2009	2,832	132	22,429,440	34	0.05	27	0.04	38	0.05	40	0.06	0.19	8.42	9.54
6/15/2009	1,992	132	15,776,640	136	0.13	27	0.03	38	0.04	40	0.04	0.24	8.56	9.77
8/21/2009	1,608	132	12,735,360	95	0.08	27	0.02	38	0.03	40	0.03	0.16	8.63	9.93
11/5/2009	1,824	132	14,446,080	34	0.03	27	0.02	38	0.03	40	0.04	0.13	8.66	10.06
2/5/2010	2,208	132	17,487,360	82	0.09	27	0.03	38	0.04	40	0.04	0.20	8.75	10.26
4/23/2010	1,848	115	12,751,200	116	0.09	27	0.02	38	0.03	40	0.03	0.18	8.84	10.44
7/23/2010	2,184	115	15,069,600	34	0.03	27	0.03	38	0.04	40	0.04	0.13	8.87	10.57
10/13/2010	1,968	115	13,579,200	34	0.03	27	0.02	38	0.03	40	0.03	0.12	8.90	10.69
1/21/2011	2,400	132	19,008,000	34	0.04	27	0.03	38	0.05	40	0.05	0.16	8.94	10.85
5/11/2011	2,640	132	20,908,800	156	0.20	27	0.04	38	0.05	40	0.05	0.34	9.15	11.19
7/29/2011	1,896	115	13,082,400	34	0.03	27	0.02	38	0.03	40	0.03	0.11	9.18	11.31
10/25/2011	2,112	132	16,727,040	34	0.04	27	0.03	38	0.04	40	0.04	0.15	9.21	11.45
1/20/2012	2,088	132	16,536,960	55	0.06	27	0.03	38	0.04	40	0.04	0.17	9.27	11.62
6/15/2012	3,528	115	24,343,200	31	0.05	27	0.04	38	0.06	40	0.06	0.21	9.31	11.82
TOTALS:	**50,257**		**382,614,840**		**9.31**		**0.64**		**0.92**		**0.95**	**11.82**		

B-4 (PID Readings)

Sample Date	Hours Per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	PID Reading (ppm VOCs)	µg/m3 VOCs	Lbs. VOCs Removed	Cum Total lbs Removed (Est from PID)
11/17/2006	672	132	5,322,240	0.1	1,483	0.49	0.49
12/27/2006	960	132	7,603,200	0.1	1,483	0.70	1.20
6/15/2007	4,080	132	32,313,600	0.1	1,483	2.99	4.18
10/16/2007	2,952	132	23,379,840	0.1	1,483	2.16	6.35
12/14/2007	1,416	132	11,214,720	0.1	1,483	1.04	7.38
3/29/2008	2,544	132	20,148,480	1.8	4,655	5.85	13.23
6/2/2008	1,560	132	12,355,200	0.3	1,856	1.43	14.66
9/12/2008	2,448	132	19,388,160	0.4	2,042	2.47	17.13
11/26/2008	1,800	132	14,256,000	0.1	1,483	1.32	18.45
8/21/2009	6,432	115	44,380,800	0.0	1,296	3.59	22.04
11/6/2009	1,848	132	14,636,160	0.4	2,042	1.86	23.90
2/5/2010	2,184	132	17,297,280	0.6	2,416	2.61	26.51
4/23/2010	1,848	115	12,751,200	0.9	2,975	2.37	28.88
10/15/2010	4,200	115	28,980,000	0.5	2,229	4.03	32.91
1/21/2011	2,352	132	18,627,840	0.2	1,669	1.94	34.85
5/11/2011	2,640	132	20,908,800	0.1	1,483	1.93	36.78
7/29/2011	1,896	115	13,082,400	0.4	2,042	1.7	38.45
10/25/2011	2,112	132	16,727,040	0.5	2,229	2.3	40.77
1/20/2012	2,088	132	16,536,960	0.4	2,042	2.1	42.88
6/15/2012	3,528	115	24,343,200	0.2	1,669	2.5	45.41
TOTALS:	**49,560**		**374,253,120**			**45.41**	

Lab Data for Air Mitigation System B-5
Second Quarter 2012
6/15/2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

B-5 (Lab Data)

Sample Date	Hours per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	µg/m3 PCE	Lbs. PCE removed	µg/m3 TCE	Lbs. TCE removed	µg/m3 VC	Lbs. VC removed	µg/m3 cis-1,2-DCE	Lbs. cis-1,2-DCE removed	Lbs. Total Pollutants Removed	Cumulative PCE lbs Removed	Cumulative Total Pollutant lbs Removed
3/27/2008	0.5	130	3,900	883	0.00	27	0.00	38	0.00	40	0.00	0.00	0.00	0.00
3/28/2008	24	127	182,880	496	0.01	27	0.00	38	0.00	40	0.00	0.01	0.01	0.01
4/24/2008	648	120	4,665,600	367	0.11	27	0.01	38	0.01	40	0.01	0.14	0.11	0.14
5/1/2008	168	115	1,159,200	394	0.03	27	0.00	38	0.00	40	0.00	0.04	0.14	0.18
6/2/2008	768	114	5,253,120	401	0.13	27	0.01	38	0.01	40	0.01	0.17	0.27	0.35
7/10/2008	912	115	6,292,800	442	0.17	27	0.01	38	0.02	40	0.02	0.21	0.45	0.56
9/12/2008	1,536	114	10,506,240	469	0.31	27	0.02	38	0.03	40	0.03	0.38	0.75	0.94
11/26/2008	1,800	113	12,204,000	489	0.37	27	0.02	38	0.03	40	0.03	0.45	1.13	1.39
3/24/2009	2,832	122	20,730,240	1,427	1.85	27	0.03	38	0.05	40	0.05	1.98	2.97	3.37
6/15/2009	1,992	122	14,581,440	394	0.36	27	0.02	38	0.03	40	0.04	0.45	3.33	3.83
8/21/2009	1,608	122	11,770,560	428	0.31	27	0.02	38	0.03	40	0.03	0.39	3.64	4.22
11/5/2009	1,824	122	13,351,680	883	0.74	27	0.02	38	0.03	40	0.03	0.82	4.38	5.04
2/5/2010	2,208	110	14,572,800	150	0.14	26.93	0.02	38	0.03	40	0.04	0.23	4.52	5.27
4/23/2010	1,848	110	12,196,800	82	0.06	27	0.02	38	0.03	40	0.03	0.14	4.58	5.41
7/23/2010	2,184	110	14,414,400	183	0.16	27	0.02	38	0.03	40	0.04	0.26	4.74	5.67
10/15/2010	2,016	130	15,724,800	102	0.10	27	0.03	38	0.04	40	0.04	0.20	4.84	5.88
1/21/2011	2,352	110	15,523,200	224	0.22	27	0.03	38	0.04	40	0.04	0.32	5.06	6.19
5/11/2011	2,640	130	20,592,000	394	0.51	27	0.03	38	0.05	40	0.05	0.64	5.57	6.84
7/29/2011	1,896	110	12,513,600	150	0.12	27	0.02	38	0.03	40	0.03	0.20	5.68	7.03
10/25/2011	2,112	110	13,939,200	204	0.18	27	0.02	38	0.03	40	0.03	0.27	5.86	7.30
1/20/2012	2,088	110	13,780,800	150	0.13	6	0.01	38	0.03	40	0.03	0.20	5.99	7.50
6/15/2012	3,528	130	27,518,400	95	0.16	8	0.01	845	1.45	40	0.07	1.70	6.15	9.20
TOTALS:	**36,985**		**261,477,660**		**6.15**		**0.39**		**2.01**		**0.65**	**9.20**		

B-5 (PID Readings)

Sample Date	Hours Per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	PID Reading (ppm VOCs)	µg/m3 VOCs	Lbs. VOCs Removed	Cum Total lbs Removed (Est from PID)
3/29/2008	50	110	330,000	0.1	1,483	0.03	0.03
6/2/2008	1,560	130	12,168,000	0.2	1,669	1.27	1.30
7/10/2008	912	110	6,019,200	0.7	2,602	0.98	2.27
9/12/2008	1,536	130	11,980,800	0.1	1,483	1.11	3.38
11/26/2008	1,800	130	14,040,000	0.1	1,483	1.30	4.68
8/21/2009	6,432	130	50,169,600	0.0	1,296	4.06	8.74
11/5/2009	1,824	130	14,227,200	0.2	1,669	1.48	10.22
2/5/2010	2,208	110	14,581,440	0.5	1,483	1.35	11.57
5/6/2010	2,160	110	14,256,000	1.4	3,908	3.48	15.04
10/15/2010	3,888	130	30,326,400	0.4	2,042	3.86	18.91
1/21/2011	2,352	110	15,523,200	0.4	2,042	1.98	20.88
5/11/2011	2,640	130	20,592,000	0.1	1,483	1.90	22.79
7/29/2011	1,896	110	12,513,600	0.4	2,042	1.6	24.38
10/25/2011	2,112	110	13,939,200	0.5	2,229	1.9	26.32
1/20/2012	2,088	110	13,780,800	0.4	2,042	1.8	28.08
6/15/2012	3,528	130	27,518,400	0.4	2,042	3.5	31.58
TOTALS:	**36,986**		**271,965,840**			**31.58**	

Lab Data for Air Mitigation System B-6
Second Quarter 2012
6/15/2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

B-6 (Lab Data)

Sample Date	Hours per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	µg/m3 PCE	Lbs. PCE removed	µg/m3 TCE	Lbs. TCE removed	µg/m3 VC	Lbs. VC removed	µg/m3 cis-1,2-DCE	Lbs. cis-1,2-DCE removed	Lbs. Total Pollutants Removed	Cumulative PCE lbs Removed	Cumulative Total Pollutant lbs Removed
3/27/2008	0.5	130	3,900	8,155	0.00	27	0.00	38	0.00	40	0.00	0.00	0.00	0.00
3/28/2008	24	119	171,144	3,330	0.04	27	0.00	38	0.00	40	0.00	0.04	0.04	0.04
4/24/2008	648	114	4,426,488	748	0.21	27	0.01	38	0.01	40	0.01	0.24	0.24	0.27
5/1/2008	168	123	1,234,800	1,427	0.11	27	0.00	38	0.00	40	0.00	0.12	0.35	0.39
6/2/2008	768	120	5,506,560	1,495	0.51	27	0.01	38	0.01	40	0.01	0.55	0.87	0.94
8/20/2008	1,896	120	13,651,200	1,835	1.56	27	0.02	38	0.03	40	0.03	1.65	2.43	2.59
9/12/2008	552	114	3,775,680	1,223	0.29	27	0.01	38	0.01	40	0.01	0.31	2.72	2.91
11/26/2008	1,800	112	12,096,000	748	0.56	27	0.02	38	0.03	40	0.03	0.64	3.28	3.55
3/24/2009	2,832	118	20,050,560	883	1.10	27	0.03	38	0.05	40	0.05	1.24	4.39	4.79
6/15/2009	1,992	118	14,103,360	571	0.50	27	0.02	38	0.03	40	0.03	0.59	4.89	5.38
8/21/2009	1,608	118	11,384,640	483	0.34	27	0.02	38	0.03	40	0.03	0.42	5.23	5.80
11/5/2009	1,824	118	12,913,920	748	0.60	27	0.02	38	0.03	40	0.03	0.69	5.83	6.49
2/5/2010	2,208	150	19,872,000	544	0.67	27	0.03	38	0.05	40	0.05	0.80	6.51	7.29
5/12/2010	2,304	93	12,856,320	883	0.71	26.93	0.02	38	0.03	40	0.03	0.79	7.22	8.08
7/23/2010	1,728	110	11,404,800	680	0.48	27	0.02	38	0.03	40	0.03	0.56	7.70	8.64
10/15/2010	2,016	130	15,724,800	129	0.13	27	0.03	38	0.04	40	0.04	0.23	7.83	8.87
1/21/2011	2,352	130	18,345,600	333	0.38	27	0.03	38	0.04	40	0.05	0.50	8.21	9.37
5/11/2011	2,640	130	20,592,000	415	0.53	27	0.03	38	0.05	40	0.05	0.67	8.74	10.04
7/29/2011	1,896	110	12,513,600	143	0.11	27	0.02	38	0.03	40	0.03	0.19	8.85	10.23
10/25/2011	2,112	110	13,939,200	170	0.15	27	0.02	38	0.03	40	0.03	0.24	8.89	10.47
1/20/2012	2,088	130	16,286,400	122	0.12	27	0.03	38	0.04	40	0.04	0.23	8.98	10.70
6/15/2012	3,528	130	27,518,400	75	0.13	27	0.05	359	0.62	40	0.07	0.86	9.02	11.56
TOTALS:	**36,985**		**268,371,372**		**9.25**		**0.45**		**1.19**		**0.67**	**11.56**		

B-6 (PID Readings)

Sample Date	Hours Per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	PID Reading (ppm VOCs)	µg/m3 VOCs	Lbs. VOCs Removed	Cum Total lbs Removed (Est from PID)
3/29/2008	50	74	222,000	1.7	4,468	0.06	0.06
6/2/2008	1,560	130	12,168,000	1.1	3,349	2.54	2.60
8/20/2008	1,896	110	12,513,600	0.5	2,229	1.74	4.34
9/12/2008	552	130	4,305,600	0.1	1,483	0.40	4.74
11/26/2008	1,800	110	11,880,000	0.2	1,669	1.24	5.98
8/21/2009	6,432	110	42,451,200	0.1	1,483	3.93	9.90
11/5/2009	1,824	130	14,227,200	0.1	1,483	1.32	11.22
2/5/2010	2,208	150	19,872,000	0.9	2,975	3.69	14.91
5/12/2010	2,304	93	12,856,320	1.7	4,468	3.58	18.49
10/15/2010	3,744	130	29,203,200	0.5	2,229	4.06	22.55
1/21/2011	2,352	130	18,345,600	0.4	2,042	2.34	24.89
5/11/2011	2,640	130	20,592,000	0.2	1,669	2.14	27.03
7/29/2011	1,896	110	12,513,600	0.3	1,856	1.45	28.48
10/25/2011	2,112	110	13,939,200	0.5	2,229	1.94	30.42
1/20/2012	2,088	130	16,286,400	0.4	2,042	2.07	32.50
6/15/2012	3,528	130	27,518,400	0.3	1,856	3.19	35.68
TOTALS:	**36,986**		**268,894,320**			**35.68**	

Lab Data for Air Mitigation System B-7
Second Quarter 2012
6/15/2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

7 (Lab Data)

Sample Date	Hours per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	µg/m3 PCE	Lbs. PCE removed	µg/m3 TCE	Lbs. TCE removed	µg/m3 VC	Lbs. VC removed	µg/m3 cis-1,2-DCE	Lbs. cis-1,2-DCE removed	Lbs. Total Pollutants Removed	Cumulative PCE lbs Removed	Cumulative Total Pollutant lbs Removed
4/7/2008	0.5	118	3,540	516	0.00	27	0.00	38	0.00	40	0.00	0.00	0.00	0.00
4/8/2008	24	118	169,920	319	0.00	27	0.00	38	0.00	40	0.00	0.00	0.00	0.00
4/24/2008	384	118	2,718,720	150	0.03	27	0.00	38	0.01	40	0.01	0.04	0.03	0.05
5/1/2008	168	120	1,209,600	265	0.02	27	0.00	38	0.00	40	0.00	0.03	0.05	0.08
6/2/2008	768	117	5,391,360	360	0.12	27	0.01	38	0.01	40	0.01	0.16	0.17	0.23
7/10/2008	912	118	6,456,960	367	0.15	27	0.01	38	0.02	40	0.02	0.19	0.32	0.42
9/12/2008	1,536	114	10,506,240	367	0.24	27	0.02	38	0.03	40	0.03	0.31	0.56	0.73
11/26/2008	1,800	112	12,096,000	381	0.29	27	0.02	38	0.03	40	0.03	0.37	0.85	1.10
3/24/2009	2,832	118	20,050,560	401	0.50	27	0.03	38	0.05	40	0.05	0.63	1.35	1.73
6/15/2009	1,992	118	14,103,360	34	0.03	27	0.02	38	0.03	40	0.03	0.12	1.38	1.85
8/21/2009	1,608	118	11,384,640	34	0.02	27	0.02	38	0.03	40	0.03	0.10	1.40	1.95
11/5/2009	1,824	118	12,913,920	34	0.03	27	0.02	38	0.03	40	0.03	0.11	1.43	2.06
2/5/2010	2,208	110	14,572,800	34	0.03	27	0.02	38	0.03	40	0.04	0.13	1.46	2.19
4/23/2010	1,848	130	14,414,400	34	0.03	27	0.02	38	0.03	40	0.04	0.13	1.49	2.32
7/23/2010	2,184	130	17,035,200	34	0.04	27	0.03	38	0.04	40	0.04	0.15	1.53	2.46
10/15/2010	2,016	130	15,724,800	34	0.03	27	0.03	38	0.04	40	0.04	0.14	1.56	2.60
1/21/2011	2,352	130	18,345,600	34	0.04	27	0.03	38	0.04	40	0.05	0.16	1.60	2.76
5/11/2011	2,640	130	20,592,000	34	0.04	27	0.03	38	0.05	40	0.05	0.18	1.64	2.94
7/29/2011	1,896	130	14,788,800	34	0.03	27	0.02	38	0.04	40	0.04	0.13	1.67	3.07
10/25/2011	2,112	130	16,473,600	34	0.03	27	0.03	38	0.04	40	0.04	0.14	1.71	3.21
1/20/2012	2,088	130	16,286,400	20	0.02	27	0.03	38	0.04	40	0.04	0.13	1.73	3.34
6/15/2012	3,528	130	27,518,400	17	0.03	27	0.05	307	0.53	135	0.23	0.83	1.76	4.17
TOTALS:	**36,721**		**272,756,820**		**1.76**		**0.46**		**1.12**		**0.84**	**4.17**		

B-7 (PID Readings)

Sample Date	Hours Per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	PID Reading (ppm VOCs)	µg/m3 VOCs	Lbs. VOCs Removed	Cum Total lbs Removed (Est from PID)
6/2/2008	1,344	130	10,483,200	0.3	1,856	1.21	1.21
7/10/2008	912	110	6,019,200	0.5	2,229	0.84	2.05
9/12/2008	1,536	130	11,980,800	0.1	1,483	1.11	3.16
11/26/2008	1,800	110	11,880,000	0.2	1,669	1.24	4.40
8/21/2009	6,432	132	50,941,440	0.1	1,483	4.71	9.11
11/5/2009	1,824	130	14,227,200	0.0	1,296	1.15	10.26
2/5/2010	2,208	110	14,572,800	0.1	1,483	1.35	11.60
5/6/2010	2,160	130	16,848,000	0.0	1,296	1.36	12.97
10/15/2010	3,888	130	30,326,400	0.1	1,483	2.80	15.77
1/21/2011	2,352	130	18,345,600	0.1	1,483	1.70	17.47
5/11/2011	2,640	130	20,592,000	0.0	1,296	1.66	19.13
7/29/2011	1,896	130	14,788,800	0.3	1,856	1.71	20.84
10/25/2011	2,112	130	16,473,600	0.1	1,483	1.52	22.37
1/20/2012	2,088	130	16,286,400	0.1	1,483	1.51	23.87
6/15/2012	3,528	130	27,518,400	0.0	1,296	2.22	26.10
TOTALS:	**36,720**		**281,283,840**			**26.10**	

Michigan Plaza
Second Quarter 2012
6/15/2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Cumulative Totals (B-1-B-4)

Sample Date	Lbs PCE Removed	Cumulative PCE lbs Removed	Lbs. Total Pollutants Removed	Cumulative Total Pollutant lbs Removed
9/21/2006	0.00	0.00	0.00	0.00
10/6/2006	2.36	2.36	2.43	2.43
10/13/2006	0.68	3.05	0.71	3.14
10/20/2006	0.98	4.03	1.01	4.14
11/17/2006	3.41	7.44	3.51	7.65
12/27/2006	4.52	11.95	4.67	12.32
3/30/2007	7.00	18.95	7.33	19.65
6/15/2007	4.64	23.59	6.55	26.20
10/16/2007	6.42	30.01	6.86	33.06
12/14/2007	5.31	35.33	5.53	38.59
3/27/2008	7.84	43.17	8.23	46.82
4/1/2008	1.20	44.36	1.25	48.07
6/2/2008	4.62	48.98	4.80	52.87
9/12/2008	8.69	57.67	9.05	61.92
11/26/2008	4.38	62.05	4.62	66.54
3/24/2009	7.64	69.69	8.02	74.55
6/15/2009	4.53	74.23	4.80	79.35
8/21/2009	3.90	78.13	4.14	83.49
11/5/2009	3.90	82.03	4.17	87.66
2/5/2010	1.90	83.93	2.24	89.90
4/23/2010	0.43	84.36	0.55	90.45
7/23/2010	1.58	85.94	1.85	92.30
10/15/2010	0.57	86.50	0.78	93.07
1/21/2011	0.59	87.09	0.82	93.89
4/8/2011	1.30	88.40	1.54	95.43
5/11/2011	2.51	90.91	2.80	98.24
7/29/2011	1.26	92.17	1.53	99.77
10/25/2011	0.97	93.15	1.27	101.04
1/20/2012	0.70	93.85	1.19	102.23
6/15/2012	1.36	95.21	1.81	104.04

Michigan Apartments
Second Quarter 2012
6/15/2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Cumulative Totals (B-5-B-7)

Sample Date	Lbs PCE Removed	Cumulative PCE lbs Removed	Lbs. Total Pollutants Removed	Cumulative Total Pollutant lbs Removed
3/27/2008	0.00	0.00	0.00	0.00
3/28/2008	0.04	0.04	0.04	0.05
4/7/2008	0.00	0.04	0.00	0.05
4/8/2008	0.00	0.05	0.00	0.05
4/24/2008	0.34	0.39	0.42	0.47
5/1/2008	0.16	0.54	0.18	0.65
6/2/2008	0.77	1.31	0.87	1.52
7/10/2008	0.32	1.63	0.40	1.93
8/20/2008	1.56	3.19	1.65	3.58
9/12/2008	0.84	4.03	1.00	4.58
11/26/2008	1.22	5.25	1.46	6.04
3/24/2009	3.45	8.71	3.85	9.89
6/15/2009	0.89	9.60	1.17	11.06
8/21/2009	0.68	10.28	0.91	11.97
11/5/2009	1.37	11.64	1.62	13.59
2/5/2010	0.84	12.48	1.16	14.75
4/23/2010	0.09	12.58	0.27	15.02
7/23/2010	0.68	13.26	0.97	15.98
10/15/2010	0.26	13.52	0.57	16.55
1/21/2011	0.64	14.16	0.98	17.53
5/11/2011	1.08	15.24	1.49	19.02
7/29/2011	0.26	15.50	0.52	19.54
10/25/2011	0.36	15.86	0.65	20.19
1/20/2012	0.27	16.13	0.56	20.75
6/15/2012	0.32	16.45	3.39	24.14

Cumulative Total LBS Removed
Second Quarter 2012
6/15/2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Cumulative Totals (B-1-B-7)

Sample Date	Lbs PCE Removed	Cumulative PCE lbs Removed	Lbs. Total Pollutants Removed	Cumulative Total Pollutant lbs Removed
9/21/2006	0.00	0.00	0.00	0.00
10/6/2006	2.36	2.36	2.43	2.43
10/13/2006	0.68	3.05	0.71	3.14
10/20/2006	0.98	4.03	1.01	4.14
11/17/2006	3.41	7.44	3.51	7.65
12/27/2006	4.52	11.95	4.67	12.32
3/30/2007	7.00	18.95	7.33	19.65
6/15/2007	4.64	23.59	6.55	26.20
10/16/2007	6.42	30.01	6.86	33.06
12/14/2007	5.31	35.33	5.53	38.59
3/27/2008	7.84	43.17	8.23	46.82
3/28/2008	0.04	43.21	0.04	46.87
4/1/2008	1.20	44.41	1.25	48.12
4/7/2008	0.00	44.41	0.00	48.12
4/8/2008	0.00	44.41	0.00	48.12
4/24/2008	0.34	44.75	0.42	48.54
5/1/2008	0.16	44.91	0.18	48.72
6/2/2008	5.38	50.29	5.67	54.39
7/10/2008	0.32	50.61	0.40	54.80
8/20/2008	1.56	52.18	1.65	56.45
9/12/2008	9.53	61.70	10.05	66.49
11/26/2008	5.60	67.30	6.08	72.57
3/24/2009	11.10	78.40	11.87	84.44
6/15/2009	5.42	83.82	5.97	90.41
8/21/2009	4.59	88.41	5.05	95.46
11/5/2009	5.26	93.67	5.79	101.25
2/5/2010	2.74	96.41	3.40	104.65
4/23/2010	0.52	96.93	0.82	105.47
7/23/2010	2.26	99.20	2.82	108.28
10/15/2010	0.83	100.02	1.34	109.63
1/21/2011	1.23	101.25	1.80	111.42
4/8/2011	1.30	102.55	1.54	112.96
5/11/2011	3.59	106.15	4.29	117.26
7/29/2011	1.52	107.67	2.05	119.31
10/25/2011	1.33	109.01	1.92	121.23
1/20/2012	0.97	109.98	1.75	122.98
6/15/2012	1.69	111.67	5.20	128.18

APPENDIX C

Cumulative Low Flow Sampling Data

Appendix C
Low Flow Data
2nd Quarter 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Date	pH	Conductivity	Temperature (^oF)	Dissolved Oxygen (ug/L)	Oxygen Reduction Potential (mV)
MMW-1S	4/25/2012	6.6	1198	60.04	341	30
MMW-2S	4/23/2012	7.2	694	59.10	5290	61
MMW-3S	4/23/2012	7.2	893.3	63.69	1018	-54
MMW-4D	4/23/2012	7.2	1290	58.00	242	-110
MMW-5D	4/23/2012	7.5	667.8	56.04	243	-116
MMW-6D	4/23/2012	7.5	733.1	52.89	95	-100
MMW-7S	4/26/2012	7.1	632.9	49.00	36	-114
MMW-8S	4/25/2012	6.9	986.5	60.06	90	-200
MMW-9S	4/25/2012	6.6	1864	60.75	123	-160
MMW-10S	4/24/2012	6.8	1884	66.29	238	-118
MMW-11S	4/24/2012	7.1	858	58.24	567	66
MMW-11D	4/24/2012	7.1	959.7	55.83	2467	84
MMW-12S	4/23/2012	7.0	1105	60.27	74	76
MMW-13D	4/24/2012	7.3	904.3	61.22	169	-60
MMW-14D	4/23/2012	7.2	863.2	61.41	437	-93
MMW-15S	4/26/2012	7.3	804.3	58.71	126	-13
MMW-15D	4/26/2012	7.0	920.5	58.40	1384	-6
MMW-P-01	4/25/2012	6.7	1698	69.92	49	-205
MMW-P-02	4/25/2012	6.8	1467	62.20	75	-175
MMW-P-03S	4/25/2012	6.9	921.7	63.00	89	-226
MMW-P-03D	4/25/2012	6.8	1374	63.28	51	-229
MMW-P-04	5/1/2012	6.7	769.2	62.78	994	-202
MMW-P-05	4/25/2012	7.0	734.1	61.01	65	-251
MMW-P-06	4/26/2012	6.6	172	61.27	71	-231
MMW-P-07	4/25/2012	6.7	1841	62.50	77	-209
MMW-P-08	4/25/2012	6.6	1709	61.26	27	-224
MMW-P-09S	4/24/2012	7.1	708.7	56.43	1364	30
MMW-P-09D	4/24/2012	7.2	879.9	57.98	254	-128
MMW-P-10S	4/24/2012	6.8	1884	60.07	238	-118
MMW-P-10D	4/25/2012	6.8	1225	63.36	85	-221
MMW-P-11S	5/1/2012	6.9	860.7	58.34	353	-108
MMW-P-11DR	5/1/2012	7.0	1269	58.31	233	-97
MMW-P-12S	5/1/2012	7.0	1173	61.62	76	-121
MMW-P-12D	5/1/2012	7.0	1325	62.20	106	-214
MMW-P-13S	4/26/2012	7.1	566	57.00	8078	80
MMW-P-13D	4/26/2012	7.1	871	58.41	105	-83
MMW-P-14S	4/26/2012	6.9	1242	56.47	1885	83
MMW-P-14D	4/26/2012	7.0	1114	58.33	88	-50
MW-167S	5/2/2012	6.8	1626	61.59	168	-106
MW-167D	5/2/2012	7.1	855.8	62.66	45	-78
MW-168D	5/2/2012	6.8	1383	64.51	27	-179
MW-169D	5/2/2012	7.0	1062	63.65	87	-148
MW-170S	5/2/2012	6.9	1488	62.22	760	118
MW-170D	5/2/2012	7.0	1587	62.41	82	-82
MW-171S	5/2/2012	6.8	791.5	56.44	72	211
MW-171D	4/29/2012	7.0	877.8	58.32	377	-164
MMW-C-01	4/24/2012	7.1	791.4	61.53	178	-54
MMW-C-02S	4/26/2012	6.9	738.5	57.10	212	17
MMW-C-02D	4/26/2012	7.0	809.9	59.28	57	-158

ug/L - micrograms per liter
mV - millivolts

APPENDIX D

Soil Boring Logs and Monitoring Well Construction Diagrams

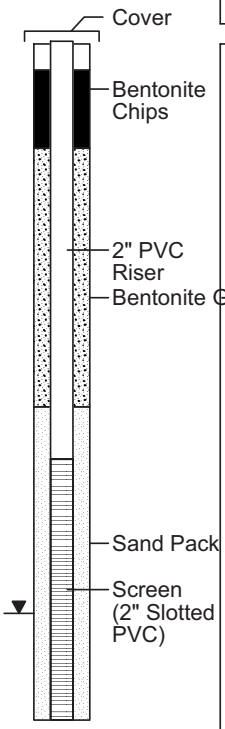
BORING NUMBER:MMW-C-16S

CLIENT: AMMH	FIELD GEOLOGIST:Mark Breting
PROJECT LOCATION: Indianapolis, IN	COORDINATES:
PROJECT NAME:Michigan Plaza	DRILLING DATE:6/5/2012
PROJECT NUMBER:M01046	DRILLING METHOD:HSA/Split Spoon
DRILLING CONTRACTOR:ATC Assoc. Inc.	DRILLING EQUIPMENTDietrich D-50
DRILLER: Warren Bates	GW DEPTH (OBSERVED):22 ft-bgs
BORING LOCATION:Floral Park Cemetery	SURFACE ELEVATION:

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Type	Blow Count	Remarks
0–27			Blank Drill to 27 feet	27.0					Boring offset four feet north from MMW-C-16D; Monitoring well installed after completion of boring.

End of boring at 27.0 feet

Well: MMW-C-16S
Elev.:



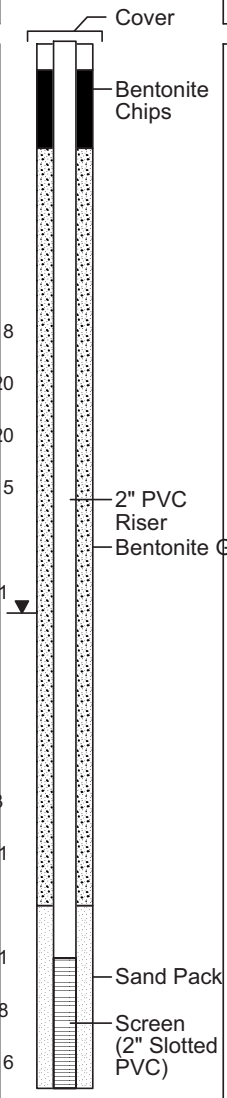
S=Soil
TPV = Total Photo-Ionization Vapors
PPM = Parts Per Million
BGS = Below Ground Surface
USCS = United Soil Classification System

BORING NUMBER:MMW-C-16D

CLIENT: AMMH	FIELD GEOLOGIST:Mark Breting
PROJECT LOCATION: Indianapolis, IN	COORDINATES:
PROJECT NAME:Michigan Plaza	DRILLING DATE:6/4/2012
PROJECT NUMBER:M01046	DRILLING METHOD:HSA/Split Spoon
DRILLING CONTRACTOR:ATC Assoc. Inc.	DRILLING EQUIPMENTDietrich D-50
DRILLER: Warren Bates	GW DEPTH (OBSERVED):22.15 ft-bgs
BORING LOCATION:Floral Park Cemetery	SURFACE ELEVATION:

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Type	Blow Count	Remarks
0–1	CL		Dry, brown (10YR 5/4) soft SILTY CLAY with some fine gravel and roots		0.0	79		9/8/5/4	
2–3	CL				0.0	67		7/5/5/6	
4–5	CL		slightly moist below 1.5 feet		0.0	75		4/4/5/7	
6–7	SP		color change to dark gray (10YR 4/1) below 2.2 feet	6.0	0.0	67		7/5/4/3	
8–9	SW		color change to brown (7.5YR 4/3) below 4 feet	8.0	0.0	50		2/3/4/8	
10–11					0.0	88		15/24/18/18	
12–13			fine Sand present in matrix below 5 feet		0.0	71		15/17/18/20	
14–15			Slightly moist, dark yellowish brown (10YR 3/4), loose fine SAND, poorly graded.		0.0	75		13/15/19/20	
16–17			Dry, pale brown (10YR 6/3), loose fine to coarse SAND, well graded		0.0	75		19/18/16/15	
18–19	SW		trace coarse granules below 12 feet		0.0	75	S	5/8/8/10	
20–21			moist below 14 feet		0.0	88		9/12/14/11	Encountered sand heaving into drill stem at depth. Added total of 60 gallons water to control heaving.
22–23			color change to yellowish brown (10YR 5/8) below 18 feet	23.1	0.0	75		7/6/6/6	
24–25	SP		wet below 21 feet		0.0	88		2/3/4/5	
26–27			Wet, gray (10YR 5/1), loose, fine SAND, poorly graded.		0.0	88		3/5/6/7	
28–29				29.5	0.0	100		4/5/10/13	Sampled 18-20, 36-38 and 40-42 ft intervals.
30–31	ML		Wet, gray (10YR 5/1), soft, SILT, non-plastic		0.0	100		9/12/17/21	
32–33	SW		gray (10YR 5/1), fine to medium SAND, moderately well graded, medium dense	32.0	0.0	100		5/9/15/21	
34–35					1.7	100		9/10/16/21	Monitoring well installed after completion of boring.
36–37			with coarse SAND and fine GRANULES below 33.5 feet		5.7	100	S	9/11/17/18	
38–39					4.7	100		11/22/18/16	
40–41	CL		Slightly moist, dark gray (10YR 4/1), very stiff, SILTY CLAY, slightly plastic.	40.0	0.0	88	S	9/12/17/19	
42			End of boring at 42.0 feet	42.0					
43–45									

Well: MMW-C-16D
Elev.:



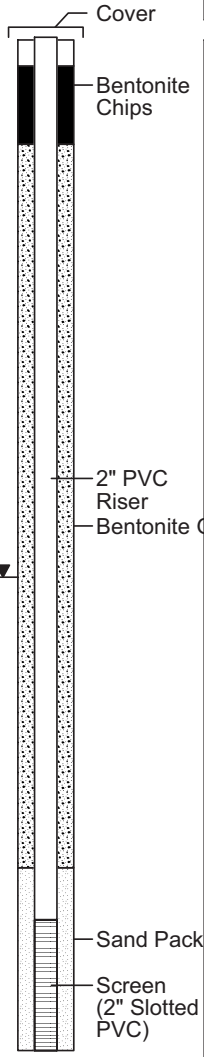
S=Soil
TPV = Total Photo-Ionization Vapors
PPM = Parts Per Million
BGS = Below Ground Surface
USCS = United Soil Classification System

BORING NUMBER:MW-17D

CLIENT: AMMH	FIELD GEOLOGIST:Mark Breting
PROJECT LOCATION: Indianapolis, IN	COORDINATES:
PROJECT NAME:Michigan Plaza	DRILLING DATE:6/5/2012
PROJECT NUMBER:M01046	DRILLING METHOD:HSA/Split Spoon
DRILLING CONTRACTOR:ATC Assoc. Inc.	DRILLING EQUIPMENTDietrich D-50
DRILLER: Warren Bates	GW DEPTH (OBSERVED):21 ft-bgs
BORING LOCATION:Floral Park Cemetery	SURFACE ELEVATION:

Depth BGS (ft)	USCS Symbol	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Type	Blow Count	Remarks
0		Top Soil	0.3					
1	CL	Slightly moist, very dark grayish brown (10YR 3/2), soft, SANDY CLAY with some granules and cobbles		0.0	100			Hand auger to 4 ft-bgs to clear utilities.
2				0.0	100			
3								
4								
5	SP	Slightly moist, pale brown (10YR 6/3), loose fine to medium SAND with trace fine granules, rounded	5.0	0.0	75		5/7/8/9	
6								
7				0.0	67		7/10/12/14	
8								
9	SP	color change to strong brown (7.5YR 5/8), some coarse granules below 8.3 feet		0.0	67		9/9/10/10	
10								
11	SP	color change to dark grayish brown (10YR 4/2), fine to medium SAND, with trace fine granules below 10.8 feet		0.0	75		13/10/9/11	
12								
13				0.0	75		13/16/14/13	
14								
15	SP	some fine to coarse granules, subangular to angular, below 12.9 feet		0.0	79		12/10/12/12	
16								
17				0.0	79		11/15/20/21	
18								
19		color change to strong brown (7.5YR 5/8) below 14.2 feet		0.0	79	S	17/23/17/19	
20	SW		20					
21		0.2 feet of CLAYEY SAND below 18.4 feet		0.0	79		17/17/18/18	Encountered sand heaving into drill stem below 30 ft. Added total of 50 gallons water to control heaving.
22								
23				0.0	88		8/8/21/24	
24		moist below 19 feet						
25		Moist, dark grayish brown (10YR 4/2), dense, fine to medium SAND (SP), moderately well-graded, non-plastic		0.0	88		11/17/21/20	
26								
27				0.0	54		20/30/50/0.4	
28								
29		wet below 21 feet		0.0	58		13/35/50/0.4	Sampled 18-20 and 38-38.8 ft intervals.
30								
31		color change to dark gray below 25.5 feet, increasing silt content		0.0	79		35/42/32/36	
32								
33				0.0	100		9/21/36/48	
34								
35		0.2 foot cobble zone (limestone and ultramafic granules) below 26 feet	35.2	0.0	100		26/22/21/29	
36	SW	Wet, gray (10YR 5/1), alternating lenses of fine SAND to fine to coarse SAND, dense						
37				0.0	100		17/26/41/42	
38								
39	CL	Slightly moist, dark gray (10YR 4/1), very stiff SILTY CLAY	38.8	0.0	100	S	11/20/25/27	
40			40.0					
41								
42		0.4 ft of SILT below 39.1 feet						
43								
44		End of boring at 40.0 feet						
45								

Well: MMW-C-17D
Elev.:



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TPV = Total Photo-Ionization Vapors
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