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March 16, 2012

Ms. Carmen Anderson
Voluntary Remediation Program
Office of Land Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

Re: **Additional Investigation Activities Summary Report**
3801-3823 West Michigan Street
Indianapolis, Indiana 46222
IDEM Incident # 0000198
IDEM VRP # 6061202
MUNDELL Project No. M01046

Dear Ms. Anderson:

This report is being submitted to the Indiana Department of Environmental Management (IDEM) by MUNDELL & ASSOCIATES, INC. (MUNDELL), on behalf of AMMH, in response to IDEM's letter, '*Request for Revised Remediation Work Plan Approval Review and Technical Response to General Notice of Potential Liability Review*' dated June 22, 2011. Specifically, IDEM requested additional delineation activities along the sewer line running north-south along the western side of the Plaza building, in the deep saturated zone near ***Source Area A***, west/southwest of Michigan Plaza towards Holt Road, and south of Cossell Road in the Floral Park Cemetery.

We appreciate the opportunity to update IDEM on the progress of additional investigation activities recently completed 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; swebb@MundellAssociates.com).

Sincerely,
MUNDELL & ASSOCIATES, INC.

Sarah E. Webb, L.P.G.
Project Hydrogeologist

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President/Senior Environmental Consultant

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cc: Mr. Peter Cappel, AMMH

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1.0 SCOPE OF WORK

IDEM's *Request for Revised Remediation Work Plan Approval Review and Technical Response to General Notice of Potential Liability Review'* dated June 22, 2011, requested additional delineation activities along the sewer line running north-south along the western side of the Plaza building, in the deep saturated zone near ***Source Area A*** (**Figure 2**) west/southwest of Michigan Plaza towards Holt Road, and south of Cossell Road in the Floral Park Cemetery. IDEM also expressed interest in developing a better understanding of the underlying glacial till surface beneath the upper sand and gravel unit. In response to these requests, MUNDELL has completed the following scope of additional investigation activities at the Site:

1) The completion of three (3) additional nested pairs of monitoring wells (MMW-P-11S/D, MMW-P-12S/D, MMW-P-13S/D) west and northwest of the Michigan Plaza Site, according to the *Revised Work Plan for Third Round of CAP 18 ME^{TM} Injections* dated July 22, 2011, and subsequently approved by IDEM in a letter dated August 22, 2011 (note: these locations were selected to complete delineation and groundwater monitoring effects west of the identified chemical source areas);

2) The completion of six (6) 2-dimensional resistivity geophysical profile lines supplemented with seismic refraction analysis to aid in the detailed assessment and interpretation of the geologic variability in the vicinity of the Site, specifically the distribution of fine-grained glacial till sequences, the unconsolidated sand and gravel units, the top of the upper till surface, and the top of the bedrock surface;

3) The completion of fourteen (14) soil borings (GP-20 through GP-29, MMW-P-11DR, MMW-P-14S, MMW-P-14D, and MMW-C-02D) to better establish soil and groundwater conditions to the southeast and southwest of the Site;

4) The completion of two (2) soil borings (MMW-15S and MMW-15D) to better establish soil and groundwater conditions to the northwest of the Site;

5) The completion of two (2) soil borings (GP-30 and GP-31) along the north-south sewer line section west of the Michigan Plaza building to investigate potential releases along the western sewer;

6) The installation of six (6) additional monitoring wells (MMW-P-11DR, MMW-P-14S, MMW-P-14D, MMW-15S, MMW-15D, MMW-C-02D) as outlined in our November 30, 2011, *Notification of Additional Soil and Groundwater*

Investigation Activities to improve groundwater level and quality information southeast, southwest, and northwest of Michigan Plaza;

7) Downhole geophysical logging of the thirteen (13) monitoring wells that were blank drilled in their deeper intervals to assist in defining aquifer composition and proper screen placement within the aquifer;

8) Additional monitoring well groundwater sampling and analytical testing during the October 2011 (4th quarter 2012); and

9) Monitoring well groundwater level gauging and groundwater potentiometric surface map development during January 2012.

A detailed description of these investigations and the results of the completed scope of work are provided in the following sections.

2.0 GEOPHYSICAL INVESTIGATION

Geophysical field activities were performed by MUNDELL on August 19, 2004, April 21, August 25, September 14 and 15, October 3 and 4, and November 8, 2011. The primary objective of these efforts was to support a detailed geologic and hydrogeologic interpretation of the surrounding area for the purpose of understanding the severity and extent of existing chlorinated groundwater impacts observed not only at the Site, but also in residential drinking water wells located west of the property on Vermont Street and Cossell Road in Indianapolis, Indiana. In particular, this geophysical investigation was intended to provide a more complete understanding of the thickness and distribution of the upper sand and gravel unit in the area and the topographic expression of the base of this unit defined by an upper glacial till unit.

As part of this investigation, seven (7) two-dimensional resistivity profiles (cross-sections), four (4) seismic refraction profiles and thirteen (13) downhole geophysical logs of selected monitoring wells were collected in this area. Additional details of the methodologies used and the results obtained are summarized in the *Geophysical Survey Investigation Report* (*GSIR*) provided in **Appendix C**.

The primary result of the geophysical investigation was a detailed ‘top of till’ map that allows for an enhanced understanding of the extent, thickness and orientation of the upper water-bearing sand and gravel unit, and the influence that the upper glacial till surface that defines the base of the sand and gravel unit has on the direction of

groundwater flow through the area. As indicated in **Figure 10A** of the *GSIR* **(Appendix C),** the till surface is quite variable, and contains a number of topographic 'highs' and 'lows' that direct the flow of groundwater from the Genuine Site to the north through the Michigan Meadows Apartments, Michigan Plaza, and Vermont Street residential properties. A number of these 'knob-like' features act as groundwater flow barriers to the deeper impacted groundwater, and tend to direct the water to one side or the other of the barrier. The resulting impact is a shift of groundwater flow direction from a strong southerly flow near the Genuine Site, to a southwesterly flow as you move west across the Michigan Meadows Apartments toward Holt Road and beyond. This behavior is shown in a conceptual site flow model for the Michigan Plaza and Michigan Meadows Apartments properties illustrated in **Figure 10B** of the *GSIR*, and can be observed in both the shallow and deep potentiometric surface generated from water level data collected during the 1st quarter of 2012 which includes the new monitoring well installations (see further discussion in Section 5.0 of this report, as illustrated in **Figures 16** and **17**).

As the deeper groundwaters pass between these knob-like features within the depressions present atop the till surface and move south of *Profile Line 6* (located about one-third of the way through the Michigan Meadows Apartment property), they encounter additional till 'ridges', and are directed around them by either following the sand/gravel-filled troughs in the till surface, or the pathways of least resistance to normal hydraulic gradients. As shown in the conceptual site flow model in **Figure 10B** of the *GSIR*, this results in the deeper groundwaters north of Michigan Plaza being directed into three distinct areas south of Michigan Street:

1) *East of Michigan Plaza* – to the southeast between monitoring wells MMW-P-08 (near the Plaza property northwest corner) and MW-168S/D (southwest corner of the intersection of Michigan Street and Olin Avenue) near previously identified ***Source Areas B*** and ***C*** immediately east of the eastern property line of Michigan Plaza;

2) *Immediately West of Michigan Plaza* – to the south, passing beneath Michigan Street through a north-south aligned till trough located near monitoring well MW-167S/D, and then near the western property line of the Plaza and to the southeast; and

3) *Further West of Michigan Plaza* – to the southwest, crossing Holt Road near its intersection with Michigan Street. This pathway is immediately west of a lower ridge feature, and can be more easily seen on the horizontal resistivity slice map (**Figure 11** in the *GSIR*) discussed below. This pathway includes deep groundwater moving southward parallel to Holt Road and within the Vermont Street residential

area.

The deeper groundwater flow directions south of Michigan Street continue to be influenced by the slope and character of the till surface (refer to the conceptual site flow model in **Figure 10B** and the horizontal resistivity slice map in **Figure 11** of the *GSIR*). Flow east of the Plaza is to the southeast and unaffected by the slope and elevation of the till surface since the topographical gradient is aligned with the natural hydraulic gradient to the southeast. Groundwater flow immediately west of the Plaza property appears to be directed through a sand/gravel-filled till trough area aligned in a north-south direction. After moving through this feature and reaching the area south of the Plaza, flow follows the natural groundwater flow direction to the southeast as controlled by the nearby confluence of Little Eagle Creek with Eagle Creek.

Further to the west, along Holt Road, the deeper groundwater flow appears to have been directed to the southwest around a till 'knob' located immediately southeast of the intersection of Holt Road and Michigan Street. Beyond and west of Holt Road, this deeper groundwater then likely flows in a southerly direction (following the natural horizontal hydraulic gradient). Although water level data is still currently lacking west of Holt Road until the U.S. EPA data becomes available, groundwater flow immediately west of Holt Road is likely to take the path of least resistance (*i.e*., the lowest hydraulic gradient) to the south or southeast in the direction of the natural hydraulic gradient. It should be noted that a till surface low (depression) that exists near and south of monitoring well MW-170D near boring EB-2 (as indicated on the geophysical Profile Line 2 in **Figure 3** of the *GSIR*) could provide one flow pathway that would allow deeper groundwater flow to move unaffected to the southeast.

These geophysical mapping results not only explain the variation of the direction of groundwater flow observed in the area, as shown on the potentiometric maps generated for the 1st quarter of 2012 (**Figures 16** and **17**, Section 5 of this report), but they also are consistent with the mapped distribution of cis-1,2-dichloroethylene (cis-1,2-DCE) and vinyl chloride (VC) in the deep groundwater (see **Figures 13** and **15**, respectively), as described in Section 4.0 later in this report.

3.0 ADDITIONAL SITE INVESTIGATION ACTIVITIES

During September, November and December, 2011, MUNDELL completed additional soil and groundwater delineation activities at the Site and surrounding areas, as

previously requested by IDEM in a letter dated June 22, 2010. The following summary provides details of these investigation activities and the associated results.

3.1 Site Investigation Activities - August and September 2011

3.1.1 Soil Boring Advancement

Six (6) soil borings (MMW-P-11D, MMW-P-11S, MMW-P-12D, MMW-P-12S, MMW-P-13D, MMW-P-13S) were advanced on August 31 and September 1, 2011, in preparation for the installation of three (3) pairs of nested monitoring wells. Each soil boring location was completed using a truck-mounted direct-push Geoprobe unit. Soil was continuously logged for each boring location and field screened using a photo-ionization detector (PID). It should be noted that because these soil borings were advanced in preparation for the installation of nested well sets, soil and groundwater samples were collected for laboratory analysis solely from the deep soil boring locations. Two unsaturated soil samples were collected from intervals immediately above the water table in the vadose zone and from the basal till unit underlying the saturated sand and gravel unit across the Site. Groundwater samples were collected in approximately ten-foot intervals from each deep soil boring location to characterize and vertically delineate the groundwater quality within the saturated zone. All soil boring locations are presented on **Figure 2** and the associated soil boring logs are included in **Appendix A**.

Each soil boring was advanced via truck-mounted Geoprobe in five-foot intervals and sampled using acetate liners. Following soil description via the Unified Soil Classification System (USCS) and PID screening activities, selected sample intervals were prepared for laboratory submittal via U.S. EPA SW-846 Method 5035A. Soil samples were submitted for volatile organic compound (VOC) analysis via U.S. EPA SW-846 Method 8260 and for total organic carbon (TOC) analysis via the Walkley-Black method. All submitted soil samples were also analyzed for percent moisture in order to report dry weight VOC concentrations.

After continuous logging was completed for the deep soil boring locations, discrete groundwater sampling intervals were selected based upon the saturated zone thickness encountered at each location. A screened point sampler was driven to the selected depth interval to obtain groundwater samples. The groundwater samples were collected and were submitted for VOC analysis via U.S. EPA SW-846 Method 8260.

All soil and groundwater samples, along with appropriate duplicate (DUP), matrix spike (MS) and matrix spike duplicate (MSD) samples, were placed in coolers containing ice and delivered to Pace Analytical Laboratories (Pace) in Indianapolis, Indiana, using

appropriate chain-of-custody protocol for laboratory tests. The Pace laboratory analytical results for all analyzed soil and groundwater samples are included in **Appendix B**.

3.1.2 Monitoring Well Installation

Six (6) monitoring wells (three (3) nested well sets) were installed in the previously described soil boring locations. The deep monitoring wells, (MMW-P-11D, MMW-P-12D and MMW-P-13D), were installed at the base of the saturated sand and gravel unit, near the basal till surface contact with the unconsolidated glacial deposits allowing for continued monitoring of the deep saturated zone. A five-foot screened interval extends to the aquifer/till interface for each deep monitoring well location. The shallow monitoring wells were installed adjacent to deep monitoring wells MMW-P-11D, MMW-P-12D and MMW-P-13D, respectively. The shallow monitoring wells, (MMW-P-11S, MMW-P-12S and MMW-P-13S) utilized a ten-foot screen located within the appropriate depth interval to evaluate ongoing conditions in the upper saturated zone of the sand and gravel unit. All monitoring well locations are presented on **Figure 2** and the associated monitoring well construction diagrams are included in **Appendix A**.

Each of the six (6) monitoring wells consists of two-inch diameter, flush-joint, threaded Schedule 40 PVC materials. Both the five- and ten-foot screens are constructed using 0.010 inch machine-slotted PVC. A sand filter pack consisting of No. 4 sand was installed around the bottom of each screen to a height of approximately two feet above the top of the screen elevation. Bentonite chips were poured into the annular space around the riser and hydrated to create a seal extending to near the ground surface. The monitoring wells were completed using flush-mounted, bolt-down steel manhole covers set in place with concrete pads. The wells were purged developed using a submersible pump until the development water cleared and the well and screen pack appeared to be free of silt and debris. Each well was fitted with a watertight well cap to prevent the infiltration of surface water.

Following installation and development activities, the monitoring well top-of-casing elevations were surveyed into the existing monitoring well network. All monitoring well construction and survey data are included on the construction diagrams included in **Appendix A**.

It should be noted that during the installation of MMW-P-11D, a private forced sewer line was encountered approximately three (3) feet below ground surface (bgs). Because the sewer line was associated with a private lift station which does not

continuously operate, the breached line was not immediately apparent. Following the confirmation of the private sewer line location via as-built drawings provided by the City of Indianapolis, the MMW-P-11D was promptly abandoned by an Indiana Licensed well driller according to Indiana Administrative Code requirements. MMW-P-11D was replaced with MMW-P-11DR during the second round of soil and groundwater investigation activities which took place during December 2011,as described in detail in **Sections 2.2.1** and **2.2.2** of this report.

3.1.3 Little Eagle Creek Stream Gauge Installation

As part of the additional investigation activities conducted at the Site in September 2011, two stream gauge staffs were installed in the streambed of Little Eagle Creek. SG-1 was placed immediately north of the Michigan Apartments and south of the Genuine Parts facility, and SG-2 was placed immediately south of the Michigan Street bridge located east of the Site. Both stream gauges were surveyed into the existing monitoring well network and will be included in all future groundwater elevation gauging events. The stream gauge locations are presented on **Figure 2**.

3.1.4 Baseline Groundwater Sampling Event – September 9, 2011

On September 9th, 2011, following the soil boring and monitoring well installations described above, MUNDELL collected one round of baseline groundwater samples from the newly installed six (6) monitoring wells as requested in a letter from IDEM dated June 22, 2011.

During this baseline sampling event, groundwater was sampled from each monitoring well utilizing a portable bladder pump for uniform low-flow purging and sample collection. A Troll 9500 multi-parameter meter (used inline with the bladder pump) was used to measure geochemical parameters including temperature, pH, dissolved oxygen, conductivity and oxidation-reduction potential, prior to sample collection.

Groundwater samples were submitted to Pace for short list VOC analysis via U.S. EPA SW-846 Method 8260. All appropriate duplicate (DUP), matrix spike (MS) and matrix spike duplicate (MSD) were included. In addition, aquifer parameters consisting of nitrate, sulfate, ferrous iron, total organic carbon, methane, ethene and ethane were analyzed to establish baseline chemical conditions within the aquifer in each new monitoring well location. Volatile fatty acid (VFA) analysis was also completed to determine the current distribution of CAP 18 ME^{TM} related to historic injection events completed at the Site during August 2007 and February 2009.

Results from this baseline groundwater sampling event are discussed in **Section 4.2** of this report.

3.2 Site Investigation Activities - December 2011

3.2.1 Soil Boring Advancement

From December 5 through December 15, 2011, nineteen (19) soil borings (GP-20, GP-21, GP-22, GP-23, GP-24, GP-25, GP-26, GP-27, GP-28, GP-29, GP-30, GP-31, MMW-P-11DR, MMW-P-14S, MMW-P-14D, MMW-15S, MMW-15D and MMW-C-02D) were completed to further delineate soil and groundwater conditions to the south and west of the Plaza property and along the western edge of the Michigan Meadows Apartments, immediately east of Holt Road. Six (6) of the boring locations were completed in preparation for installation of monitoring wells. Included in the monitoring well installation activities was MMW-P-11DR, the replacement monitoring well for MMW-P-11D (previously abandoned due to a broken sewer line in the vicinity). As such, no soil or groundwater samples were collected from MMW-P-11DR during drilling. All soil boring and monitoring well locations are presented on **Figure 2**.

Each soil boring location was completed using a truck mounted direct-push Geoprobe with the exception of borings MMW-15S and MMW-15D, which were installed using a CME hollow stem auger drill rig. Soil and groundwater sampling procedures were followed as described previously in **Section 2.1.4**. Two unsaturated soil samples were collected from intervals immediately above the water table in the vadose zone and from the basal till unit underlying the saturated unit across the Site. Groundwater samples were also collected from each deep soil boring location to aid with vertical delineation of COCs within the saturated unit. Samples were collected in approximately ten-foot intervals to characterize the groundwater quality within the saturated zone. It should be noted that due to the unconsolidated sand and gravel lithology present beneath the Site, significant sand heaving issues were encountered during drilling activities. In cases where refusal was encountered (GP-24, GP-25, GP-26, GP-27, GP-28 and GP-29), a screened point sampler was advanced into the deeper saturated zone for groundwater sample collection. Due to the sand heave and resulting Geoprobe refusal, basal clay till soil samples could not be collected from these locations. Details of lithology and sampling intervals are presented on the soil boring logs included in **Appendix A**. Pace laboratory analytical results for the analyzed soil and groundwater samples are presented in **Appendix B**.

3.2.2 Monitoring Well Installation

Six (6) monitoring wells (two (2) nested sets, one (1) deep monitoring well, and one (1) replacement monitoring well) were installed in the previously identified soil boring locations (MMW-P-11DR, MMW-P-14S/D, MMW-15S/D and MMW-C-02D). Again, the deep monitoring wells, (MMW-P-11DR, MMW-P-14D, MMW-15D and MMW-C-02D), were installed and screened at the base of the saturated sand and gravel unit, near the basal till surface contact with the unconsolidated glacial deposits, allowing for continued monitoring of the deep saturated zone. A five-foot screened interval extends to the aquifer/till interface for each deep monitoring well location. The shallow monitoring wells were installed adjacent to deep monitoring wells MMW-P-14D and MMW-15D. These monitoring wells, (MMW-P-14S and MMW-15S) utilized a ten-foot screen located within the appropriate depth interval to evaluate ongoing conditions in the upper saturated zone of the sand and gravel unit. All monitoring well installation procedures were completed in accordance with current IDEM protocols and as previously described in **Section 2.1.2**.

All monitoring well locations are presented on **Figure 2**. Monitoring well construction diagrams are included in **Appendix A**.

4.0 SOIL AND GROUNDWATER ANALYTICAL RESULTS

4.1 Site Investigation Activities - August and September 2011

During the August and September 2011 investigations at the Site, soil and groundwater samples were analyzed for VOCs in the three (3) deep soil borings advanced on the Site (MMW-P-11D, MMW-P-12D and MMW-P-13D).

Soil VOC analytical results were below the method detection limits for all submitted soil samples with the exception of tetrachloroethene (PCE) in the shallow MMW-P-12D sample (16.0-18.0'), and cis-1,2-DCE in the deep MMW-P-12D sample (36.0-37.0'). The PCE concentration of 51,300 ug/kg in the MMW-P-12D (16.0-18.0') sample exceeds the IDEM RISC 2009 industrial default closure levels (IDCLs). Cis-1,2-DCE concentrations in MMW-P-12D (36.0-37.0') were below all IDEM RISC 2009 DCLs for soil.

As depicted on **Figure 2**, MMW-P-12D is located slightly south of the east-west running sewer line running on the north side of the Plaza parking lot, and immediately east of the north-south sewer line running along the west side of the Michigan Plaza building. This sewer line and its related lateral connections located south of the plaza building

(***Source Area A***), south of apartment Buildings 6 and 10 (***Source Area B***), and south and east of Building 1 (***Source Area C***) was previously identified as the source origin at both the Michigan Plaza and Michigan Apartment properties. During previous soil investigations at the Site, PCE concentrations present in shallow soil intervals were of the same order of magnitude as those seen in the MMW-P-12D 16.0-18.0' interval (51,300 ug/kg). Although the PCE concentration in soil here is elevated, no PCE impacts were observed in either of the groundwater samples collected from the same boring location.

Groundwater VOC analytical results were below method detection limits in all six (6) locations for PCE, trichloroethene (TCE) and trans-1,2-DCE. Cis-1,2-DCE was detected above the IDEM RISC 2009 residential default closure levels (RDCLs) in both shallow and deep groundwater samples collected from MMW-P-12D. VC was detected in soil boring groundwater samples (MMW-P-11D, MMW-P-12D and MMW-P-13D) with concentrations exceeding the IDEM RISC 2009 IDCLs. The relative concentrations in each monitoring location are consistent with previous investigation, delineation and monitoring activities at the Site, which had previously indicated deeper VC impacts were likely in those areas based on the upgradient Genuine Site sources to the north. It is anticipated that ongoing remedial activities (supplemented reductive dechlorination via CAP 18 ME^{TM} injections) will continue to address any remaining groundwater impacts generated and present at the Site. Specifically, the western sewer line segment has been targeted for additional CAP 18 ME^{TM} injections during the second quarter of 2012 to treat the remaining PCE impacts (MUNDELL July 22, 2011, Revised Work Plan for Third Round of CAP 18 ME^{TM} Injections), and a revised CAP18 ME^{TM} injection location plan will be submitted to IDEM to include the area in the vicinity of MMW-P-12S/D. A copy of the original July 22, 2011, *Revised Work Plan for Third Round of CAP 18 ME^{TM} Injections*, is included as **Appendix D**.

Soil analytical results from the August and September 2011 investigation activities are presented in **Table 3** and on **Figure 4**. Soil boring groundwater analytical results are presented in **Table 4** and on **Figure 5**. All associated laboratory analytical results and documentation are provided in **Appendix B**.

4.2 Baseline Groundwater Sampling Results

During the baseline groundwater sampling event, dissolved PCE was detected solely in shallow monitoring well MMW-P-11S, with a concentration exceeding the IDEM RISC 2009 IDCLs (76.0 ug/L). MMW-P-11S is screened within the shallow saturated unit and is located slightly to the southwest of the Plaza building and its associated north-south running sewer line. The presence of dissolved PCE at this location indicates the

original ***Source Area A*** extends to the western corner at the location of the east-west and north-south sewer leg junction not previously included in the original extent, and northward to between GP-30 and GP-31.

Cis-1,2-DCE), trans-1,2-dichloroethene (trans-1,2-DCE) and VC are byproducts of reductive dechlorination of PCE, the established constituent of concern (COC) initially released at the Site. Generation of cis-1,2-DCE, trans-1,2-DCE and VC has been anticipated in areas near the in-situ bioremediation injections where reductive dechlorination is actively occurring. CAP-18 ME^{TM} injections completed in August 2007 and February 2009 have been shown to increase cis-1,2-DCE, trans-1,2-DCE and VC concentrations at the Site, particularly in the vicinity of the ***Source Areas*** where the injections were applied.

Cis-1,2-DCE was detected in monitoring wells MMW-P-11S, MMW-P-11D, MMW-P-12S and MMW-P-12D. Trans-1,2-DCE was detected in MMW-P-12S and MMW-P-12D. Monitoring well nests MMW-P-11S/D and MMW-P-12S/D are located in close vicinity to ***Source Areas A*** and ***B***, respectively.

VC concentrations exceeding the IDEM RISC 2009 IDCLs were detected in all six (6) monitoring well locations during the baseline groundwater sampling event. As described above, elevated VC concentrations were anticipated at locations MMW-P-11S/D and MMW-P-12S/D which are proximal to the previously treated ***Source Areas***. While elevated VC concentrations can be explained by enhanced reductive dechlorination processes ongoing near the previous injection locations, monitoring well nest MMW-P-13S/D is located over 200 feet west/southwest and cross-gradient from ***Source Areas A*** and ***B***. Notably, PCE or cis-1,2-DCE concentrations were not detected in either MMW-P-13S or MMW-P-13D. In addition, VC concentrations in MMW-P-13D were higher than both MMW-P-11D and MMW-P-12D which are closer to ***Source Areas A*** and ***B***. This VC concentration 'saddle' is demonstrated by the isoconcentration contours presented in **Figure 15.** Decreasing dissolved VC concentrations are present as one moves westward from ***Source Area A*** (MMW-P-03D; 61.5 ug/L) to MMW-P-11D (39.0'; 36.1 ug/L). However, continuing west from MMW-P-11D, VC concentrations increase to 116 ug/L at MMW-P-13D. This increasing VC trend as one moves in the westward direction is directly related to the deeper groundwater flow directions just south of Michigan Street, which are influenced by the slope and character of the till surface.

In particular, as indicated in Figure 10B of the attached *GSIR* **(Appendix C)**, flow east of the Plaza is to the southeast and is unaffected by the slope and elevation of the till surface since it is in the direction of the natural hydraulic gradient. Along the west side

of the Michigan Meadows Apartments property, near Holt Road, the deeper groundwater flow has been directed to the southwest around a till 'hill' located immediately southeast of the intersection of Holt Road and Michigan Street. This deeper groundwater then likely flows in a southerly direction until it shifts to the south and southeast which appears to occur in the vicinity of a till surface low south of monitoring well MW-170D near soil boring EB-2. Deeper groundwater flow then flows unaffected to the southeast.

Inspection of the most recent (October 2011) cis-1,2-DCE and VC plume maps for the deeper sand and gravel (**Figures 13** and **15,** respectively) indicate the relative positions of these plumes are consistent with the groundwater flow directions observed and the detailed geologic mapping of the lower till surface as described above (see Figure 10B, **Appendix C**).

As such, the VC concentrations detected in MMW-P-13S/D during the baseline groundwater monitoring event are likely attributable to the previously identified upgradient Genuine Site and not related to the Michigan Plaza and Apartments Site (see **Figure 15**, described in Section 4.0 later in the report).

Baseline groundwater analytical results and associated monitored natural attenuation parameters are presented in **Table 1** and **Table 2**, respectively. **Figure 3** presents all COC analytical data collected during this modified sampling event. All associated laboratory analytical results are included in **Appendix B**.

4.3 Site Investigation Activities – December 2011

During the December 2011 investigation at the Site, soil and groundwater samples were analyzed for VOCs in fifteen (15) selected deep soil boring locations advanced at the Site (GP-20, GP-21, GP-22, GP-23, GP-24, GP-25, GP-26, GP-27, GP-28, GP-29, GP-30, GP-31, MMW-P-14D, MMW-15D and MMW-C-02D). Soil VOC analytical results were below the method detection limits for all submitted soil boring samples with the exception of PCE in the shallow GP-31 sample (16.0-17.5') and VC in the deep GP-30 sample (35.0-35.5'), likely a reflection of groundwater quality at that depth. The PCE concentration of 68.5 ug/kg in the shallow GP-31 sample exceeds the IDEM RISC 2009 RDCLs but is below the IDCLs. The VC concentrations in the deep sample interval for GP-30 (26.8 ug/kg) exceeds the IDEM RISC 2009 RDCLs for soil but is below the IDCLs.

As depicted on **Figure 2**, GP-30 and GP-31 are located adjacent to the north-south running sewer line along the western side of the Plaza building. Previously, no soil or groundwater investigations had been conducted along this section of sewer line due to

the presence of overhead power lines adjacent to the Plaza building. These overhead power lines were relocated from the western side of the Plaza building in late 2011, allowing further soil and groundwater investigation activities to occur in that area.

During previous soil investigations in Source Areas at the Site, PCE concentrations present in shallow soil intervals were one to two orders of magnitude greater than those seen in the GP-31 shallow soil sample (*e.g.*, 16.0-17.5'; 68.5 ug/kg). This PCE concentration is relatively low as compared to soil sample concentrations observed in the established Source Areas at the Site and is close to the IDEM Residential Default Closure Level (RDCL) of 58.0 ug/kg. However, the slight presence of PCE at GP-31 and the lack of detection at GP-30 indicates that, historically, PCE was likely released in the vicinity of or just north of GP-31 and that the previously inferred ***Source Area A*** extends to the west to include a portion of the north-south running sewer line. Groundwater analytical results obtained from MMW-P-11S (where PCE was detected in shallow groundwater at 76.1 ug/L) downgradient of the north-south leg during the September 2011 baseline sampling event also supports this conclusion.

Groundwater VOC analytical results indicated the presence of VC and cis-1,2-DCE in GP-30, and PCE, TCE, cis-1,2-DCE and VC in GP-31 along the western edge of Plaza building (**Figure 5**). No PCE or TCE was detected in the shallow groundwater sample collected from GP-30 (25.0'). Both PCE and TCE were detected above IDEM RISC 2009 RDCLs in the shallow groundwater sample collected from GP-31 (26.0'). Cis-1,2-DCE was detected in the shallow groundwater samples collected from both GP-30 and GP-31; however, these cis-1,2-DCE concentrations remained below all IDEM RISC 2009 IDCLs. In addition, VC was detected above the IDEM RISC 2009 IDCL in shallow groundwater samples collected from GP-30 and GP-31.

No PCE or TCE was detected in the deep groundwater samples from either GP-30 or GP-31. In both samples, cis-1,2-DCE was detected below all IDEM RISC 2009 RDCLs and VC was detected above IDEM RISC 2009 IDCLs.

The presence of dissolved PCE and TCE in shallow groundwater at GP-31 located adjacent to the sewer line suggests that ***Source Area A*** extends slightly west and north of where previous Site investigations have indicated. Detections of cis-1,2-DCE and VC in the shallow groundwater at the GP-30 and GP-31 locations were anticipated as a likely result of ongoing reductive dechlorination processes across the Site. Both of these areas are downgradient of ***Source Area B***. Based on historical investigation and monitoring activities in the shallow saturated zone at the Site, the Genuine Site is also a contributing source of cis-1,2-DCE concentrations (see **Figure 12** and Section 5.0 discussion).

Cis-1,2-DCE and VC have been present consistently within the deep saturated unit underlying the Site dating back to 2002. Both GP-30 and GP-31, along with monitoring well MMW-15D (downgradient of the Genuine Site and upgradient of Michigan Meadows Apartments and Michigan Plaza), exhibit detectable groundwater concentrations of cis-1,2-DCE below IDEM RDCLs. VC was present in the deep groundwater samples collected from GP-30, GP-31 and MMW-P-14D (located along the western edge of the Floral Park Cemetery property immediately east of Holt Road and just north of Cossell Road) above the IDEM IDCL.

The remaining cis-1,2-DCE concentrations within the deep saturated zone are likely attributable to the upgradient Genuine Site source to the north of Michigan Plaza and Michigan Meadows Apartments ***Source Areas*** since they now reflect background concentrations coming from the north (see **Figure 13**). The remaining deep groundwater VC concentrations (see **Figure 15**), however, are the result of both the Genuine Site impacts and the remediation reductive dechlorination VC generation effects. These VC levels are continuing to decline more rapidly than the upgradient VC source, according to the injection design (see remediation concentration trend summaries for cis-1,2-DCE and VC at the Michigan Plaza in Figure 4 of the MUNDELL 2011 4th Quarter Monitoring Report).

All soil samples collected from the Floral Park Cemetery property soil borings were below detection limits for VOCs. Limited VC groundwater concentrations exceeding the IDEM RISC 2009 IDCLs were observed along the northern edge of the Cemetery property (GP-21 - 28.0', 4.9 ug/L; GP-21 - 38.0', 2.8 ug/L; GP-23 - 37.0', 7.2 ug/L; GP-24 - 28.0', 2.9 ug/L; and GP-24 - 38.0', 4.8 ug/L). No VOCs were detected in the remaining seven (7) cemetery boring locations (GP-20, GP-22, GP-25, GP-26, GP-27, GP-28 and GP-29). These soil and groundwater analytical results indicate that the leading edge of the deep VC plume has been successfully delineated, currently extending in a downgradient (south-southeast) direction no further than 200 feet onto the Cemetery property.

Soil analytical results from the December 2011 investigation activities are presented in **Table 5** and on **Figure 4**. Soil boring groundwater analytical results are presented in **Table 6** and on **Figure 5**. All associated laboratory analytical results and documentation are provided in **Appendix B**.

5.0 4TH QUARTER 2011 GROUNDWATER SAMPLING EVENT

During the 4th quarter 2011, the monitoring well nests installed during August and September 2011 were incorporated into the quarterly groundwater sampling network. Details regarding this quarterly sampling event are included in the *Michigan Plaza Quarterly Monitoring Progress Report – 4th Quarter 2011***,** submitted to IDEM on January 31, 2012. The shallow potentiometric surface map generated from the 4th quarter 2011 groundwater elevation data is included in this report as **Figure 6**. Groundwater analytical results for the 4th quarter 2011 are summarized in **Table 7** and presented on **Figure 7.** In addition, chlorinated hydrocarbon plume extents were interpolated based on the included 4th quarter 2011 data. PCE, TCE, cis-1,2-DCE and VC distribution maps for both the shallow and deep saturated zones are presented on **Figures 8** through **15.**

Though concentrations have been significantly reduced since pre-CAP18™ injection levels, the area of remaining PCE concentrations remains within or very close to the original PCE delineation maps developed during 2005, 2007 and 2008 **(Figure 8**), except for the inclusion of a few area extensions. These extensions were determined to be present during the latter half of 2011 with either the presence of detectable PCE in groundwater in wells downgradient of the source areas during the quarterly monitoring events (*e.g.*, MMW-P-02 in ***Source Area A***, MMW-P-01 and MMW-P-07 in ***Source Area B***, and MMW-1S in ***Source Area C***), or in new soil borings or the installation and testing of the new monitoring wells (*e.g*., GP-31 and MMW-P-11S for ***Source Area A***, and MMW-P-12D and U.S. EPA SB-05 for ***Source Area B***. As a result, ***Source Area A*** was found to extend further westward to the intersection of the east-west sewer leg with the north-south sewer leg at the Plaza and northward along the sewer line to between GP-31 and GP-30. The part of ***Source Area B*** south of Michigan Street was found to extend west to include the intersection of the north-south sewer leg with the east-west sewer leg near Michigan Street; the part north of Michigan Street was extended west to U.S. EPA boring SB-5. ***Source Area C*** was found to extend slightly more northward of Building 1. All four remaining PCE sources are planned for a 3rd CAP18 ME™ injection within the next quarter.

The extent of the deep dissolved cis-1,2-DCE and VC plumes indicates substantial concentrations are still emanating from the Genuine Site (**Figures 13** and **15**) and passing not only beneath and through the Michigan Meadows Apartments (MW-166D) and Plaza properties (MW-167D), but also likely extending west to and beyond Holt Road (MW-170D). This is further evidenced in **Figure 10B** of the *GSIR* **(Appendix C)**, which shows that deep groundwater flow is directed to the southwest around a till 'hill' (located immediately southeast of the intersection of Holt Road and Michigan Street)

and then heads to the south parallel with Holt Road. It then takes the path of least resistance (i.e., the steepest hydraulic gradient) to the south and also to the southeast, which appears to occur in the vicinity of a till surface low south of monitoring well MW-170D near soil boring EB-2. Deeper groundwater flow then moves unaffected to the south-southeast. This is consistent with the recent 2012 potentiometric maps generated (**Figure 16** and **17,** Section 6.0) that indicate southwest flow from the Genuine Site along the western portion of the Michigan Apartments property.

6.0 JANUARY 2012 POTENTIOMETRIC SURFACE MAPS

First quarter 2012 sampling activities were completed during January 2012. This sampling event incorporated all new monitoring wells installed during the previously discussed August, September and December 2011 investigation activities. Groundwater elevation data collected during this event has been utilized to produce both shallow and deep potentiometric surface maps. Several ENVIRON monitoring wells were also included in this quarterly gauging event. Those wells, MW-174S/D and MW-175S/D, are located east of Holt Road and north of Michigan Street. All groundwater elevation data is included on **Table 8**. These potentiometric surface interpretations (**Figures 16** and **17** for the shallow and deep groundwater, respectively) generally agree with the geophysical investigation findings discussed previously in **Section 1.0**.

Flow east of the Plaza is to the southeast and appears unaffected by the slope and elevation of the till surface and controlled by the flow of Little Eagle Creek. Groundwater flow immediately west of the Plaza property is aligned in a generally north-south direction, and flow south of the Plaza begins to follow the natural groundwater flow direction to the southeast as controlled by the confluence of Little Eagle Creek and Eagle Creek. On the northwest portion of the Michigan Meadows Apartments property near the Genuine Site, deep groundwater (and shallow groundwater flow, to a lesser degree) is directed to the southwest toward and beyond the intersection of Holt Road and Michigan Street. This deeper groundwater then likely flows in a southerly direction. Groundwater flow then continues unaffected to the south-southeast.

As of the date of this report, laboratory analytical results have not yet been received for the 1st quarter of 2012. These will be incorporated into future analyses of the extent of groundwater impacts.

7.0 SUMMARY OF U.S. EPA INVESTIGATION ACTIVITIES

During November 9 through 16, 2011, the U.S. EPA initiated investigation activities consisting of the advancement of five (5) vertical aquifer sampling (VAS) borings and the installation of fifteen monitoring wells utilizing RotoSonic drilling methods in the vicinity of the Site. In addition, six (6) soil borings were advance via Geoprobe along the east-west running sewer line south of the Michigan Meadows Apartments and immediately north of Michigan Street. All U.S.EPA sampling locations are included on **Figure 18**.

The U.S. EPA collected eight (8) soil samples from each soil boring location and submitted them to Pace for VOC analysis. At the time of this report, analytical results have been provided to MUNDELL by the U.S. EPA for four (4) of the sampled intervals (SB-01/GP-21, 6.5-9.0'; SB-01/GP-21, 16.0-19.0'; SB-03/GP-20, 12.0-13.0'; and SB-03-GP-20, 19.0-20.0'). All of these soil samples were below the detection limit for all VOCs. The lack of impacts in these sampling locations indicates that there have been no additional releases to the environment as related to the east-west sewer line associated with the Michigan Plaza and Michigan Meadows Apartments Site. All analytical results received to date from U.S. EPA are included in **Table 10**.

The U.S. EPA also collected groundwater samples from each VAS boring at approximately ten-foot intervals to a maximum depth of sixty-eight (68) feet bgs at VAS-05. In all, fifteen (15) groundwater samples were collected from the VAS locations and submitted to Pace for VOC analysis. Cis-1,2-DCE and VC concentrations were limited to the deeper saturated units, with collection depths ranging from thirty (30) to fifty-five (55) feet bgs. (VAS01 - 32.5-37.5', 60.1 ug/L; VAS01 - 41.0-46.0', 40.9 ug/L; VAS01 – 50.0-55.0', 32.4 ug/L; VAS02 – 35.0-40.0', 23.0 ug/L; and VAS02 – 45.0-50.0', 5.5 ug/L). Again, cis-1,2-DCE and VC have been present consistently within the deep saturated zone underlying the Site vicinity dating back to at least 2002. Based on the 2012 updated shallow and deep groundwater potentiometric surface maps (**Figures 16** and **17**, respectively) and the cis-1,2-DCE and VC plume maps in the deep groundwater (**Figures 13** and **15**, respectively), the concentrations observed by the U.S. EPA as noted above can be attributed to the upgradient Genuine site. All U.S. EPA groundwater analytical results received to date are included in **Table 9**.

During December 6 through 9, 2011, following installation of the U.S. EPA VAS locations, a unified groundwater elevation gauging event was conducted in concert with collection of groundwater samples from the area-wide monitoring well network including monitoring wells from MUNDELL, Arcadis, ENVIRON, and the new U.S. EPA VAS locations. Low-flow sampling technology was utilized by the U.S. EPA to obtain

groundwater samples from all monitoring well locations. To date, no groundwater elevation data or analytical results relating to this event have been received by MUNDELL from the U.S. EPA.

In addition, in January 2012, the U.S. EPA completed an area-wide elevation and location survey event to obtain ground surface and top-of-casing elevations, as well as latitude and longitude coordinate data for each monitoring well location included in the December 2011/January 2012 groundwater sampling and gauging event. This location data is included in **Table 11**. Area-wide potentiometric surface analysis will be completed once groundwater elevation data are received from the U.S. EPA.

TABLES

Table 1. Baseline Groundwater Analytical Data – September 2011

Table 2. Baseline Monitored Natural Attenuation Data - September 2011

Table 3. Soil Boring Analytical Data – September 2011

Table 4. Soil Boring Groundwater Analytical Data – September 2011

Table 5. Soil Boring Analytical Data – December 2011

Table 6. Soil Boring Groundwater Analytical Data – December 2011

Table 7. Groundwater Analytical Data – October 2011

Table 8. Groundwater Elevation Data – January 2012

Table 9. U.S. EPA Soil Boring Analytical Data – November 2011

Table 10. U.S. EPA Soil Boring Groundwater Analytical Data

Table 11. U.S.EPA Unified Survey Data

FIGURES

Figure 1. Site Vicinity Map

Figure 2. Site Map

Figure 3. Baseline Groundwater Analytical Data – September 2011

Figure 4. Soil Boring Analytical Data

Figure 5. Soil Boring Groundwater Analytical Data

Figure 6. Shallow Potentiometric Surface Map – October 2011

Figure 7. Groundwater Analytical Data – October 2011

Figure 8. PCE Distribution in Shallow Groundwater – October 2011

Figure 9. PCE Distribution in Deep Groundwater – October 2011

Figure 10. TCE Distribution in Shallow Groundwater – October 2011

Figure 11. TCE Distribution in Deep Groundwater – October 2011

Figure 12. cis-1,2-DCE Distribution in Shallow Groundwater – October 2011

Figure 13. cis-1,2-DCE Distribution in Deep Groundwater – October 2011

Figure 14. Vinyl Chloride Distribution in Shallow Groundwater – October 2011

Figure 15. Vinyl Chloride Distribution in Deep Groundwater – October 2011

Figure 16. Shallow Potentiometric Surface Map – January 2012

Figure 17. Deep Potentiometric Surface Map – January 2012

Figure 18. U.S. EPA Soil and Groundwater Investigation Locations – November 2011

APPENDICES

Appendix A. Soil Boring Logs and Monitoring Well Construction Diagrams

Appendix B. Laboratory Analytical Results

Appendix C. Geophysical Survey Investigation Report

Appendix D. Revised Work Plan for Third Round of CAP 18 ME™ Injections - July 22, 2011

TABLES

Table 1
Baseline Groundwater Analytical Data
September 9, 2011
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
MMW-P-11S	9/9/2011	**76.1**	<5.0	5.9	<5.0	<5.0	**9.1**
MMW-P-11D*	9/9/2011	<5.0	<5.0	7.3	<5.0	<5.0	**84.0**
MMW-P-12S	9/9/2011	<5.0	<5.0	**741**	14.1	<5.0	**50.8**
MMW-P-12D	9/9/2011	<5.0	<5.0	**678**	15.9	<5.0	**63.0**
MMW-P-13S	9/9/2011	<5.0	<5.0	<5.0	<5.0	<5.0	**8.3**
MMW-P-13D	9/9/2011	<5.0	<5.0	<5.0	<5.0	<5.0	**139**
IDEM RISC Default Industrial Cleanup Level		**55**	**31**	**1,000**	**2,000**	**1,000**	**4**
IDEM RISC Default Residential Cleanup Level		**5**	**5**	**70**	**100**	**80**	**2**

Note:

All Values Over IDEM RISC Industrial Default Cleanup Level in **RED**
All Values Over IDEM RISC Residential Default Cleanup 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
* = During installation activities a forced sewer line was penetrated. Following baseline sampling activities, this monitoring well location was abandoned.
All analytical results presented in micrograms per liter (ug/L).

Table 2
Baseline Groundwater Monitored Natural Attenuation Data - September 2011
3801-3823 West Michigan Street
Michigan Plaza
Indianapolis, Indiana
MUNDELL Job No.: M01046

Well ID	Sample Date	Nitrogen, Nitrate	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
		mg/L													ug/l		
		LAB RESULTS															
MWW-P-11S	**9/9/2011**	<0.10	0.8	1.5	380	0.14	<0.050	0.130	<0.050	<0.15	<0.10	<0.070	0.066	<0.15	<10.0	<10.0	287
MMW-P-11D	**9/9/2011**	<0.10	0.6	6.7	184	7.6	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15	<10.0	<10.0	458
MMW-P-12S	**9/9/2011**	<0.10	3.8	1.8	166	0.10	<0.050	<0.050	<0.050	<0.15	0.26	<0.070	0.069	<0.15	<10.0	<10.0	<10.0
MMW-P-12D	**9/9/2011**	<0.10		1.8	179	0.15	<0.050	0.160	<0.050	<0.15	1.2	<0.070	0.130	<0.15	<10.0	<10.0	25.1
MMW-P-13S	**9/9/2011**	4.50	0.0	1.1	112	0.09	<0.050	0.380	0.092	<0.15	0.45	<0.070	0.065	<0.15	<10.0	<10.0	<10.0
MMW-P-13D	**9/9/2011**	<0.10	3.0	2.1	119	0.52	<0.050	0.420	<0.050	<0.15	0.22	<0.070	0.076	<0.15	<10.0	<10.0	12.3

Notes

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.

Table 3
Soil Boring Analytical Data
August and September 2011
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	Acetone	Vinyl chloride
		ug/kg					
MMW-P-11D (16.0-17.0')	8/31/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-P-11D (37.0-39.0')	8/31/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-P-12D (16.0-18.0')	9/1/2011	**51,300**	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-P-12D (36.0-37.0')	9/1/2011	<5.0	<5.0	3.9	<5.0	<5.0	<2.0
MMW-P-13D (16.0-18.0')	8/31/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-P-13D (36.0-38.0')	8/31/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
IDEM RISC 2009 Default Industrial Cleanup Level	-	**640**	**350**	**5,800**	**14,000**	**370,000**	**27**
IDEM RISC 2009 Default Residential Cleanup Level	-	**58**	**57**	**400**	**680**	**28,000**	**13**

Table 4
Soil Boring Groundwater Analytical Data
August and September 2011
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	Acetone	Vinyl chloride
		ug/L					
MMW-P-11D (29.0')	8/31/2011	<5.0	<5.0	<5.0	<5.0	<5.0	**47.5**
MMW-P-11D (39.0')	8/31/2011	<5.0	<5.0	<5.0	<5.0	<5.0	**36.1**
MMW-P-12D (26.0')	9/1/2011	<5.0	<5.0	**221**	<5.0	<5.0	**35.0**
MMW-P-12D (36.0')	9/1/2011	<5.0	<5.0	**125**	<5.0	<5.0	**64.8**
MMW-P-13D (24.0')	8/31/2011	<5.0	<5.0	<5.0	<5.0	<5.0	**86.8**
MMW-P-13D (32.0')	8/31/2011	<5.0	<5.0	<5.0	<5.0	<5.0	**47.9**
IDEM RISC 2009 Default Industrial Cleanup Level	-	**55**	**31**	**1,000**	**2,000**	**92,000**	**4**
IDEM RISC 2009 Default Residential Cleanup Level	-	**5**	**5**	**70**	**100**	**6,900**	**2**

Table 5
Soil Boring Analytical Data
December 2011
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	Acetone	Vinyl chloride
		ug/kg					
GP-20 (16.0-18.0')	12/7/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
GP-20 (40.0-42.0')	12/7/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
GP-21 (18.0-20.0')	12/7/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
GP-21 (40.0-42.0')	12/7/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
GP-22 (18.0-20.0')	12/8/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
GP-22 (36.0-38.0')	12/8/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
GP-23 (17.0-19.0')	12/8/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
GP-23 (39.0-40.0')	12/8/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
GP-24 (17.0-19.0')	12/12/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
GP-25 (18.0-20.0')	12/9/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
GP-26 (18.0-20.0')	12/9/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
GP-27 (17.0-18.0')	12/8/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
GP-28 (17.0-19.0')	12/9/2011	<5.0	<5.0	<5.0	<5.0	175*	<2.0
GP-29 (16.0-18.0')	12/14/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
GP-30 (35.0-35.5')	12/13/2011	<5.0	<5.0	<5.0	<5.0	179*	**26.8**
GP-30 (16.0-18.0')	12/13/2011	<5.0	<5.0	<5.0	<5.0	748*	<2.0
GP-31 (16.0-17.5')	12/13/2011	**68.5**	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-15D (13.0-15.0')	12/14/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-15D (38.5-39.0')	12/14/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-C-02D (17.5-19.0')	12/5/2011	<5.0	<5.0	<5.0	<5.0	172*	<2.0
MMW-C-02D (40.0-42.0')	12/6/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-P-14D (19.0-20.0')	12/6/2011	<5.0	<5.0	<5.0	<5.0	109*	<2.0
MMW-P-14D (38.0-40.0')	12/6/2011	<5.0	<5.0	<5.0	<5.0	106*	<2.0
IDEM RISC 2009 Default Industrial Cleanup Level	-	**640**	**350**	**5,800**	**14,000**	**370,000**	**27**
IDEM RISC 2009 Default Residential Cleanup Level	-	**58**	**57**	**400**	**680**	**28,000**	**13**

NOTES:

* - these acetone concentrations are confirmed to be the result of supplier sampling container contamination PRIOR to field activities and are not reflective of actual Site conditions.

Table 6
Soil Boring Groundwater Analytical Data
December 2011
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	Acetone	Vinyl chloride
		ug/L					
GP-20 (30.0')	12/7/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
GP-20 (39.0')	12/7/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
GP-21 (28.0')	12/7/2011	<5.0	<5.0	<5.0	<5.0	<5.0	**4.9**
GP-21 (38.0')	12/7/2011	<5.0	<5.0	<5.0	<5.0	<5.0	**2.8**
GP-22 (24.0')	12/8/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
GP-22 (34.0')	12/8/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
GP-23 (27.0')	12/8/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
GP-23 (37.0')	12/8/2011	<5.0	<5.0	<5.0	<5.0	<5.0	**7.2**
GP-24 (28.0')	12/12/2011	<5.0	<5.0	<5.0	<5.0	<5.0	**2.9**
GP-24 (38.0')	12/12/2011	<5.0	<5.0	<5.0	<5.0	<5.0	**4.8**
GP-24 (48.0')	12/12/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
GP-25 (28.0')	12/9/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
GP-25 (38.0')	12/9/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
GP-26 (25.0')	12/9/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
GP-26 (32.0')	12/9/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
GP-27 (26.0')	12/9/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
GP-27 (36.0')	12/9/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
GP-28 (28.0')	12/9/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
GP-28 (38.5')	12/9/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
GP-29 (30.0')	12/14/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
GP-29 (40.0')	12/14/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
GP-30 (25.0')	12/13/2011	<5.0	<5.0	57.5	<5.0	<5.0	**59.7**
GP-30 (35.0')	12/13/2011	<5.0	<5.0	42.4	<5.0	<5.0	**25.5**
GP-31 (26.0')	12/13/2011	**9.3**	**9.5**	69.9	<5.0	<5.0	**20.6**
GP-31 (36.0')	12/13/2011	<5.0	<5.0	37.2	<5.0	<5.0	**74.3**
MMW-15D (28.5')	12/14/2011	<5.0	<5.0	6.5	<5.0	<5.0	<2.0
MMW-15D (38.5')	12/14/2011	<5.0	<5.0	6.2	<5.0	<5.0	<2.0
MMW-C-02D (22.0')	12/6/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-C-02D (32.0')	12/6/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-C-02D (42.0')	12/6/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-P-14D (24.0')	12/6/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-P-14D (34.0')	12/6/2011	<5.0	<5.0	<5.0	<5.0	<5.0	**5.1**
IDEM RISC 2009 Default Industrial Cleanup Level	-	**55**	**31**	**1,000**	**2,000**	**92,000**	**4**
IDEM RISC 2009 Default Residential Cleanup Level	-	**5**	**5**	**70**	**100**	**6,900**	**2**

Table 7
Groundwater Analytical Data
October 2011
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
Monitoring Wells (Apts)							
MMW-1S	10/19/2011	**136**	**66.0**	**75.3**	<5.0	<5.0	**14.3**
MMW-8S	10/24/2011	**7.9**	<5.0	9.9	<5.0	<5.0	**200**
MMW-9S	10/24/2011	<5.0	<5.0	**2,330**	92.8	<5.0	**694**
MMW-10S	10/19/2011	**5.2**	<5.0	**134**	<5.0	<5.0	**198**
MMW-11S	10/21/2011	<5.0	<5.0	33.9	<5.0	<5.0	<2.0
MMW-11D	10/21/2011	<5.0	<5.0	**751**	22.7	<5.0	**11.8**
MMW-12S	10/18/2011	<5.0	<5.0	39.4	<5.0	<5.0	<2.0
MMW-13D	10/18/2011	<5.0	<5.0	**771**	5.2	<5.0	**140**
MMW-14D	10/19/2011	<5.0	<5.0	**898**	11.1	<5.0	**92.6**
Monitoring Wells (Plaza)							
MMW-P-01	10/24/2011	**23.4**	**10.0**	**839**	9.1	<5.0	**1,410**
MMW-P-02	10/19/2011	**9.1**	<5.0	36.9	<5.0	<5.0	**304**
MMW-P-03S	10/19/2011	<5.0	<5.0	33.5	6.6	<5.0	**446**
MMW-P-03D	10/18/2011	<5.0	<5.0	<5.0	<5.0	<5.0	**61.5**
MMW-P-04	10/24/2011	<5.0	<5.0	14.8	<5.0	<5.0	**68.7**
MMW-P-05	10/19/2011	<5.0	<5.0	8.3	<5.0	<5.0	**48.3**
MMW-P-06	10/24/2011	<50.0	<50.0	**10,100**	<50.0	<50.0	**11,300**
MMW-P-07	10/24/2011	<5.0	<5.0	37.3	<5.0	<5.0	**388**
MMW-P-08	10/24/2011	<5.0	<5.0	32.5	<5.0	<5.0	**136**
MMW-P-09S	10/18/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-P-09D	10/21/2011	<5.0	<5.0	<5.0	<5.0	<5.0	**71.9**
MMW-P-10S	10/21/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-P-10D	10/21/2011	<5.0	<5.0	<5.0	<5.0	<5.0	**444**
Keramida/Environ Monitoring Wells (Off-Site)							
MW-168D	10/24/2011	<5.0	<5.0	8.9	<5.0	<5.0	**137**
Floral Park Monitoring Wells (Off-site)							
MMW-C-01	10/21/2011	**18.7**	<5.0	20.6	<5.0	<5.0	**58.8**
MMW-C-02	10/18/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-P-11S	10/24/2011	**592**	<5.0	<5.0	<5.0	<5.0	**2.5**
MMW-P-12S	10/24/2011	<5.0	<5.0	**642**	19.2	<5.0	**60.7**
MMW-P-12D	10/24/2011	<5.0	<5.0	**644**	14.2	<5.0	**71.3**
MMW-P-13S	10/24/2011	<5.0	<5.0	<5.0	<5.0	<5.0	**19.8**
MMW-P-13D	10/24/2011	<5.0	<5.0	<5.0	<5.0	<5.0	**116**
IDEM RISC Default Industrial Cleanup Level		**55**	**31**	**1,000**	**2,000**	**1,000**	**4**
IDEM RISC Default Residential Cleanup Level		**5**	**5**	**70**	**100**	**80**	**2**

Note:
All Values Over IDEM RISC Industrial Default Cleanup Level in **RED**
All Values Over IDEM RISC Residential Default Cleanup 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).

Table 8
Tabulated Water Level Measurements and Monitoring Well Construction Data
January 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)								
MMW-P-01	1/18/2012	715.26	28	18.00	-	28.00	18.59	696.67
MMW-P-02	1/18/2012	716.09	30	20.00	-	30.00	19.58	696.51
MMW-P-03S	1/18/2012	715.95	28	18.00	-	28.00	19.47	696.48
MMW-P-03D	1/18/2012	716.02	35	25.00	-	35.00	19.47	696.55
MMW-P-04	1/18/2012	716.04	28	18.00	-	28.00	19.36	696.68
MMW-P-05	1/18/2012	715.55	28	18.00	-	28.00	18.95	696.60
MMW-P-06	1/18/2012	716.14	28	18.00	-	28.00	19.52	696.62
MMW-P-07	1/18/2012	714.90	28	18.00	-	28.00	17.89	697.01
MMW-P-08	1/18/2012	714.53	28	18.00	-	28.00	17.51	697.02
MMW-P-09S	1/18/2012	714.80	28	18.00	-	28.00	19.36	695.44
MMW-P-09D	1/18/2012	714.82	45	35.00	-	45.00	19.27	695.55
MMW-P-10S	1/18/2012	714.35	28	18.00	-	28.00	17.15	697.20
MMW-P-10D	1/18/2012	714.42	38	28.00	-	38.00	17.52	696.90
MMW-P-12S	1/18/2012	715.83	26	16.00	-	26.00	18.36	697.47
MMW-P-12D	1/18/2012	715.33	36.5	31.50	-	36.50	17.77	697.56
Monitoring Wells (Apartments)								
MMW-1S	1/18/2012	712.92	20	10.00	-	20.00	15.58	697.34
MMW-2S	1/18/2012	712.95	20	10.00	-	20.00	15.32	697.63
MMW-3S	1/18/2012	710.2	30	18.00	-	28.00	11.34	698.86
MMW-4D	1/18/2012	711.29	66	56.00	-	66.00	12.52	698.77
MMW-5D	1/18/2012	711.27	51	36.00	-	41.00	12.46	698.81
MMW-6D	1/18/2012	712.4	51	39.00	-	49.00	13.69	698.71
MMW-7S	1/18/2012	712.09	26	12.00	-	22.00	13.31	698.78
MMW-8S	1/18/2012	714.24	24	14.00	-	24.00	16.60	697.64
MMW-9S	1/18/2012	713.71	25	15.00	-	25.00	16.46	697.25
MMW-10S	1/18/2012	712.69	25	15.00	-	25.00	15.47	697.22
MMW-11S	1/18/2012	713.17	24	14.00	-	24.00	15.73	697.44
MMW-11D	1/18/2012	713.33	33	23.00	-	33.00	15.55	697.78
MMW-12S	1/18/2012	712.15	24	14.00	-	24.00	14.73	697.42
MMW-13D	1/18/2012	713.28	50	35.00	-	50.00	15.56	697.72
MMW-14D	1/18/2012	712.41	50	40.00	-	50.00	14.41	698.00
MMW-15S	1/18/2012	713.36	32	22.00		32.00	15.60	697.76
MMW-15D	1/18/2012	713.08	39	34.00		39.00	15.32	697.76
Floral Park Cemetery Monitoring Wells (Off-Site)								
MMW-C-01	1/18/2012	715.73	28	18.00	-	28.00	19.12	696.61
MMW-C-02S	1/18/2012	714.80	28	18.00	-	28.00	18.66	696.137
MMW-C-02D	1/18/2012	713.90	36	31.00		36.00	17.86	696.037
MMW-P-11S	1/18/2012	716.42	26	16.00	-	26.00	19.89	696.53
MMW-P-11DR	1/18/2012	715.63	33	28.00		33.00	19.08	696.55
MMW-P-13S	1/18/2012	713.83	26	16.00	-	26.00	17.26	696.57
MMW-P-13D	1/18/2012	713.57	33	28.00		33.00	17.02	696.55
MMW-P-14S	1/18/2012	714.50	28	18.00		28.00	18.16	696.34
MMW-P-14D	1/18/2012	714.76	34	29.00		34.00	18.43	696.33
Keramida/Environ Monitoring Wells (Off-Site)								
MW-166S	1/18/2012	712.7	20	10.00		20.00	14.75	697.95
MW-166D	1/18/2012	712.49	51	46.00		51.00	14.45	698.04
MW-167S	1/18/2012	716.07	22	12.00	-	22.00	NG	NG
MW-167D	1/18/2012	715.61	33	28.00	-	33.00	17.85	697.76
MW-168S	1/18/2012	714.58	22	12.00	-	22.00	17.30	697.28
MW-168D	1/18/2012	714.46	31	26.00	-	31.00	17.14	697.32
MW-169S	1/18/2012	715.92	25	15.00	-	25.00	20.75	695.17
MW-169D	1/18/2012	715.69	37	32.00	-	37.00	19.53	696.16
MW-170S	1/18/2012	717.14	27	17.00	-	27.00	20.34	696.8
MW-170D	1/18/2012	717.07	39	34.00	-	39.00	20.27	696.8
MW-171S	1/18/2012	711.58	22	12.00	-	22.00	15.16	696.42
MW-171D	1/18/2012	711.62	49	44.00	-	49.00	15.61	696.01
MW-174S	1/18/2012	717.78	24	14.00		24.00	21.14	696.64
MW-174D	1/18/2012	717.72	48	43.00		48.00	21.03	696.69
MW-175S	1/18/2012	718.66	25	15.00		25.00	20.38	698.28
MW-175D	1/18/2012	718.75	41	37.00		42.00	20.32	698.43
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	1/18/2012	701.78					2.35	700.13
SG-2	1/18/2012	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 9
U.S. EPA Soil Boring Groundwater Analytical Data - November 2011
Michigan Plaza
Indianapolis, Indiana
MUNDELL job No.: M01046

Sample ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/L					
VAS03 (30-35')	11/14/2011	<0.5	<0.5	<0.5	<0.5	<0.5	**6.3**
VAS03 (40-45')	11/14/2011	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
VAS01 (25-30')	11/9/2011	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
VAS01 (32.5-37.5')	11/9/2011	<0.5	<0.5	<0.5	<0.5	<0.5	**60.1**
VAS01 (41-46')	11/10/2011	<0.5	<0.5	<0.5	<0.5	<0.5	**40.9**
VAS01 (50-55')	11/10/2011	<0.5	<0.5	<0.5	<0.5	<0.5	**32.4**
VAS02 (24-30')	11/11/2011	<0.5	<0.5	6.7	<0.5	<0.5	<0.2
VAS02 (35-40')	11/11/2011	<0.5	<0.5	<0.5	<0.5	<0.5	**23.0**
VAS02 (45-50')	11/11/2011	<0.5	<0.5	<0.5	<0.5	<0.5	**5.5**
SB-05-GW	11/11/2011	**9.7**	<0.5	5.8	<0.5	<0.5	<0.2
VAS04 (25-30')	11/16/2011	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
VAS04 (39-44')	11/16/2011	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
VAS05 (20-25')	11/16/2011	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
VAS05 (32.5-37.5')	11/16/2011	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
VAS05 (45-50')	11/16/2011	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
VAS05 (63-68')	11/17/2011	<0.5	<0.5	<0.5	<0.5	<0.5	<0.2
IDEM RISC Default Industrial Cleanup Level		**55**	**31**	**1,000**	**2,000**	**1,000**	**4**
IDEM RISC Default Residential Cleanup Level		**5**	**5**	**70**	**100**	**80**	**2**

Note: All Values over IDEM RISC Default Industrial Cleanup Level in **RED**

All Values over IDEM RISC Default Residential Cleanup Level in **BLUE**

Table 10
U.S. EPA Soil Boring Analytical Data - November 2011
Michigan Plaza
Indianapolis, Indiana
MUNDELL job No.: M01046

Sample ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/kg					
SB01GP-21-6-9.5'	11/10/2011	<4.5	<4.5	<4.5	<4.5	<4.5	<4.5
SB01GP-21-16-19	11/10/2011	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7
SB03GP-20-12-13	11/10/2011	<5.8	<5.8	<5.8	<5.8	<5.8	<5.8
SB03GP-20-19-20	11/10/2011	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7
IDEM RISC Default Industrial Cleanup Level		**640**	**350**	**5,800**	**14,000**	**370,000**	**27**
IDEM RISC Default Residential Cleanup Level		**58**	**57**	**400**	**680**	**28,000**	**13**

Table 11
U.S. EPA Unified Survey Data
Michigan Plaza
Indianapolis, Indiana
MUNDELL job No.: M01046

Monitor Well Locations				
Well Descriptor	Latitude NAD83(86) Decimal Degrees	Longitude NAD83(86) Decimal Degrees	Elevation NGVD29	
			Well Casing	Ground
MMW-10S	39.7739822	-86.2255368	712.69	713.21
MMW-11D	39.7742472	-86.2263638	713.33	713.83
MMW-11S	39.7742472	-86.2263480	713.17	713.68
MMW-12S	39.7744530	-86.2257912	712.15	712.77
MMW-13D	39.7744469	-86.2268350	713.28	713.66
MMW-14D	39.7743861	-86.2257946	712.41	712.94
MMW-1S	39.7741488	-86.2257024	712.92	713.45
MMW-2S	39.7747175	-86.2263514	712.95	713.48
MMW-3S	39.7756795	-86.2261383	710.20	710.64
MMW-4D	39.7757174	-86.2265514	711.29	711.60
MMW-5D	39.7757734	-86.2269692	711.27	711.78
MMW-6D	39.7757576	-86.2273752	712.40	712.70
MMW-7S	39.7757508	-86.2274598	712.09	712.80
MMW-8S	39.7739416	-86.2263442	714.24	714.70
MMW-9S	39.7739161	-86.2256482	713.71	714.07
MMW-C-01	39.7728283	-86.2262280	715.73	716.13
MMW-C-2	39.7722586	-86.2257293	714.64	715.02
MMW-P-01	39.7734639	-86.2262844	715.26	715.82
MMW-P-02	39.7729555	-86.2264987	716.09	716.67
MMW-P-03D	39.7729550	-86.2263331	716.02	716.53
MMW-P-03S	39.7729542	-86.2263187	715.95	716.48
MMW-P-04	39.7729579	-86.2261762	716.04	716.38
MMW-P-05	39.7732170	-86.2261142	715.55	716.05
MMW-P-06	39.7731972	-86.2262951	716.14	716.62
MMW-P-07	39.7736393	-86.2262939	714.90	715.39
MMW-P-08	39.7736412	-86.2261516	714.53	715.04
MMW-P-09D	39.7715203	-86.2252661	714.82	715.25
MMW-P-09S	39.7715198	-86.2252548	714.80	715.33
MMW-P-10D	39.7735639	-86.2261122	714.42	714.94
MMW-P-10S	39.7735631	-86.2261000	714.35	714.87
MW-0102-S2	39.7760862	-86.2328827	717.22	717.43
MW-0104-S2	39.7762067	-86.2345111	719.28	719.49
MW-0105-S2	39.7749839	-86.2362489	721.03	721.28
MW-0106-S2A	39.7751933	-86.2369663	721.48	721.76
MW-0107-S2	39.7749596	-86.2344748	719.64	719.97
MW-0116-S2	39.7749003	-86.2377521	721.69	722.03
MW-0202-S2A	39.7766621	-86.2341010	718.59	718.88

Table 11
U.S. EPA Unified Survey Data
Michigan Plaza
Indianapolis, Indiana
MUNDELL job No.: M01046

Monitor Well Locations				
Well Descriptor	Latitude NAD83(86) Decimal Degrees	Longitude NAD83(86) Decimal Degrees	Elevation NGVD29	
			Well Casing	Ground
MW-0202-S2B	39.7766699	-86.2340975	718.72	718.98
MW-0202-S3	39.7766826	-86.2340978	718.48	718.85
MW-0210-S3	39.7765781	-86.2333533	718.22	718.68
MW-0406-S2B	39.7763618	-86.2332864	717.25	717.55
MW-0409-S2B	39.7765832	-86.2335804	718.29	718.60
MW-0409-S3	39.7765848	-86.2335999	718.29	718.66
MW-0410-S2	39.7765880	-86.2360020	721.74	721.84
MW-0412-S2	39.7765638	-86.2354956	721.98	722.30
MW-0419-S2B	39.7760740	-86.2338952	720.50	720.95
MW-0419-S3	39.7760853	-86.2336227	719.06	719.54
MW-0419-S3	39.7760748	-86.2338719	720.37	721.09
MW-0420-S2A	39.7760790	-86.2336068	718.76	719.29
MW-0420-S3	39.7760767	-86.2336304	718.90	719.52
MW-0421-S2A	39.7760818	-86.2332955	717.72	718.06
MW-0421-S3	39.7760813	-86.2333217	717.68	718.10
MW-0427-S2B	39.7766211	-86.2333500	718.19	718.69
MW-0522-S2A	39.7731963	-86.2319150	719.38	719.76
MW-0522-S2B	39.7731918	-86.2318981	719.35	719.69
MW-0523-S2	39.7725754	-86.2342051	721.70	721.90
MW-0524-S2A	39.7737979	-86.2315594	719.78	720.02
MW-0524-S2B	39.7737900	-86.2315504	719.71	719.92
MW-0525-S2	39.7746178	-86.2332071	719.64	719.98
MW-0526-S2A	39.7735226	-86.2341138	719.86	720.84
MW-0526-S2B	39.7735235	-86.2340963	720.38	720.72
MW-0622-S2A	39.7735109	-86.2339417	720.00	720.36
MW-0623-S2A	39.7732072	-86.2338262	718.93	719.23
MW-0624-S2	39.7741451	-86.2345372	721.38	721.78
MW-0625-S2A	39.7731916	-86.2341756	720.43	720.76
MW-0629-S2	39.7764219	-86.2350924	721.46	721.89
MW-0629-S3	39.7764217	-86.2351210	721.45	721.86
MW-0632-S2	39.7760633	-86.2363691	720.50	720.94
MW-0709-S2	39.7760843	-86.2352306	719.68	720.09
MW-0803-S2	39.7760915	-86.2353530	720.20	720.42
MW-0814-S2	39.7734599	-86.2351556	722.13	722.41
MW-0815-S2	39.7732637	-86.2348804	721.91	722.27
MW-0816-S2	39.7730607	-86.2346258	721.80	722.19
MW-0817-S2B	39.7763896	-86.2328078	717.08	717.45

Table 11
U.S. EPA Unified Survey Data
Michigan Plaza
Indianapolis, Indiana
MUNDELL job No.: M01046

Monitor Well Locations				
Well Descriptor	Latitude NAD83(86) Decimal Degrees	Longitude NAD83(86) Decimal Degrees	Elevation NGVD29	
			Well Casing	Ground
MW-0817-S3	39.7763714	-86.2328076	717.00	717.38
MW-0818-S3	39.7760965	-86.2328642	717.82	718.31
MW-0904-S2B	39.7765846	-86.2328803	718.30	718.68
MW-0904-S3	39.7765841	-86.2328403	718.20	718.68
MW-1001-S2B	39.7761404	-86.2317689	717.61	718.11
MW-1001-S3	39.7761405	-86.2318164	717.40	717.77
MW-1002-S2B	39.7761463	-86.2311136	717.05	717.61
MW-1002-S3	39.7761492	-86.2310672	717.41	717.62
MW-1002-S3-4	39.7761760	-86.2310884	716.05	716.62
MW-100-S3	39.7738317	-86.2315447	719.52	719.78
MW-10-1	39.7762910	-86.2254230	714.74	712.17
MW-132R	39.7769583	-86.2275722	711.54	711.89
MW-133R	39.7764345	-86.2268445	708.93	709.11
MW-135	39.7770439	-86.2254932	713.48	713.88
MW-145	39.7762145	-86.2271164	707.77	708.31
MW-146	39.7761342	-86.2259665	708.41	708.84
MW-147AR	39.7769913	-86.2275597	711.45	711.73
MW-148R	39.7767678	-86.2276196	711.21	711.65
MW-150	39.7766559	-86.2252653	712.57	713.00
MW-151	39.7759065	-86.2251964	712.60	712.86
MW-152	39.7764515	-86.2259165	712.76	713.03
MW-153	39.7764161	-86.2273428	711.50	709.15
MW-154	39.7771352	-86.2275894	714.00	711.64
MW-155	39.7766833	-86.2279301	717.32	717.50
MW-156	39.7762253	-86.2251674	711.65	711.88
MW-158	39.7767006	-86.2282561	719.94	720.20
MW-159	39.7751711	-86.2247610	709.84	710.11
MW-160	39.7759809	-86.2268411	702.18	702.29
MW-161	39.7760920	-86.2273450	703.94	704.05
MW-162	39.7769565	-86.2251672	712.73	713.20
MW-163	39.7767149	-86.2251647	712.09	712.63
MW-163B	39.7767239	-86.2251660	712.30	712.69
MW-164	39.7760731	-86.2241796	718.23	718.89
MW-165D	39.7757642	-86.2271846	712.19	712.55
MW-165S	39.7757639	-86.2272022	712.31	712.56
MW-166D	39.7751497	-86.2269290	712.49	712.81
MW-166S	39.7751550	-86.2269465	712.70	713.01

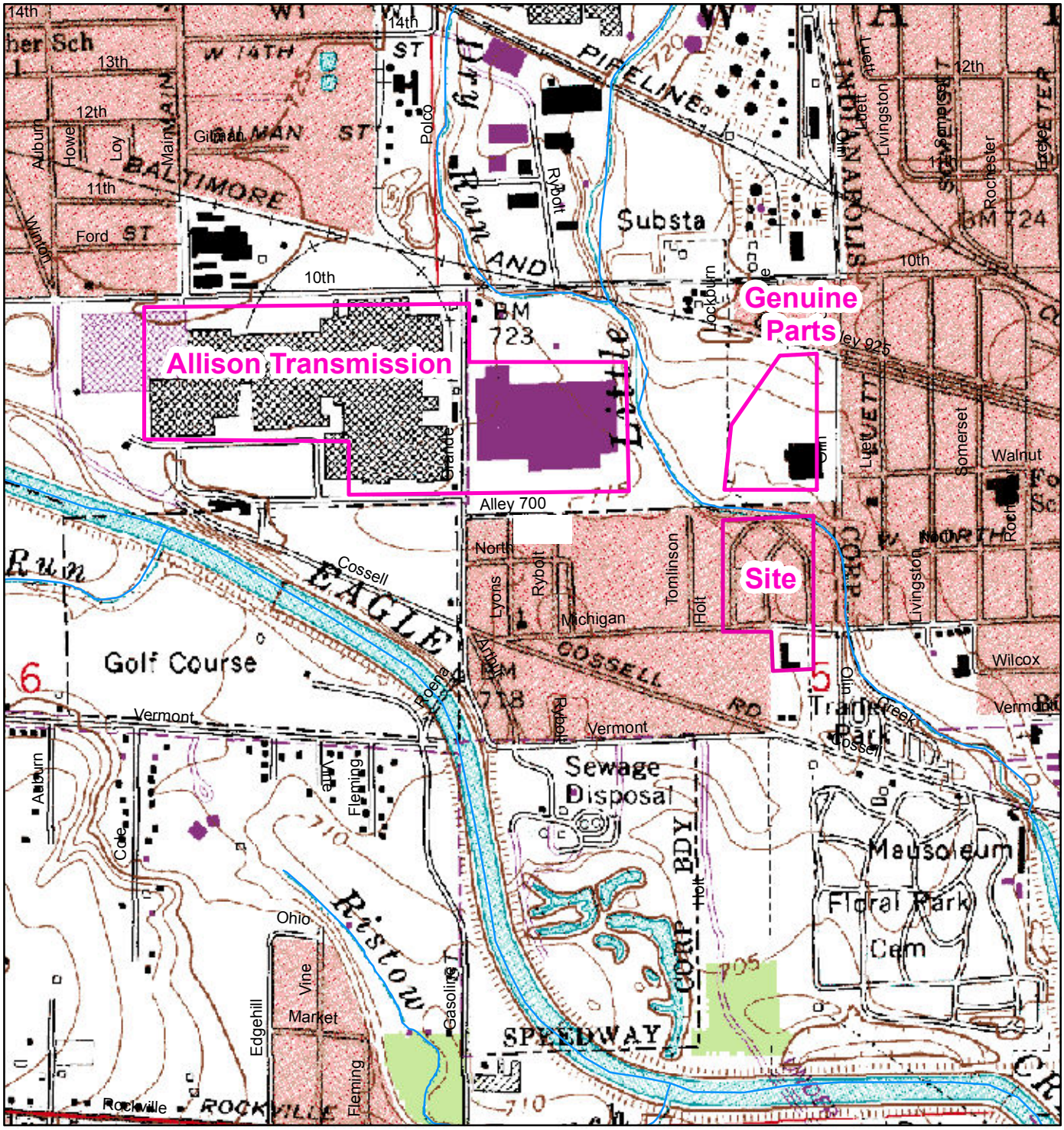
Table 11
U.S. EPA Unified Survey Data
Michigan Plaza
Indianapolis, Indiana
MUNDELL job No.: M01046

Monitor Well Locations				
Well Descriptor	Latitude NAD83(86) Decimal Degrees	Longitude NAD83(86) Decimal Degrees	Elevation NGVD29	
			Well Casing	Ground
MW-167D	39.7737989	-86.2271820	715.61	716.27
MW-167S	39.7737963	-86.2272075	716.07	716.23
MW-168D	39.7737039	-86.2254324	714.46	714.81
MW-168S	39.7737047	-86.2254496	714.58	714.83
MW-169D	39.7717538	-86.2264523	715.69	716.04
MW-169S	39.7717504	-86.2264402	715.92	716.10
MW-16-S2	39.7761368	-86.2353247	720.28	720.42
MW-170D	39.7729924	-86.2279746	717.07	717.46
MW-170S	39.7730048	-86.2279756	717.14	717.48
MW-171D	39.7728041	-86.2251543	711.62	711.82
MW-171S	39.7728161	-86.2251528	711.58	711.75
MW-200	39.7765488	-86.2253899	712.72	713.12
MW-201	39.7758939	-86.2251949	712.01	712.90
MW-202	39.7763916	-86.2273455	711.60	709.20
MW-24-S2A	39.7760713	-86.2338604	720.39	720.77
MW-28-S2	39.7733207	-86.2348097	722.09	722.22
MW-301	39.7759233	-86.2251997	712.50	712.82
MW-302	39.7764055	-86.2273621	711.40	709.31
MW-30-S2	39.7731092	-86.2345223	720.89	721.11
MW-31-S2	39.7740655	-86.2358336	720.77	720.97
MW-32-S2	39.7735289	-86.2350873	722.15	722.54
MW-33-S2	39.7739252	-86.2351481	720.48	720.72
MW-34-S2	39.7737425	-86.2346635	720.50	720.65
MW-3-9-S2	39.7756492	-86.2394693	723.42	723.94
MW-S2-0601	39.7763417	-86.2338587	718.03	718.29
MW-S2A-0501	39.7764079	-86.2334671	717.50	717.69
MW-S2B-0501	39.7764102	-86.2334496	717.37	717.68
MW-S3-0501	39.7764551	-86.2333355	717.84	718.05
MW-S3-0601	39.7763449	-86.2338803	718.00	718.33
MW-SUP A	39.7766686	-86.2250830	713.11	713.31
MW-SUP B	39.7765324	-86.2253874	712.90	713.11
SB-64-1001	39.7760798	-86.2300475	713.75	714.03
SB-64-1006	39.7738586	-86.2291108	717.15	717.65
MW-WES-01a	39.772645	-86.228319	716.30	716.13
MW-WES-01b	39.772627	-86.228321	716.31	716.05
MW-WES-01c	39.772610	-86.228322	716.28	715.96
MW-WES-02a	39.773243	-86.228307	716.60	716.24

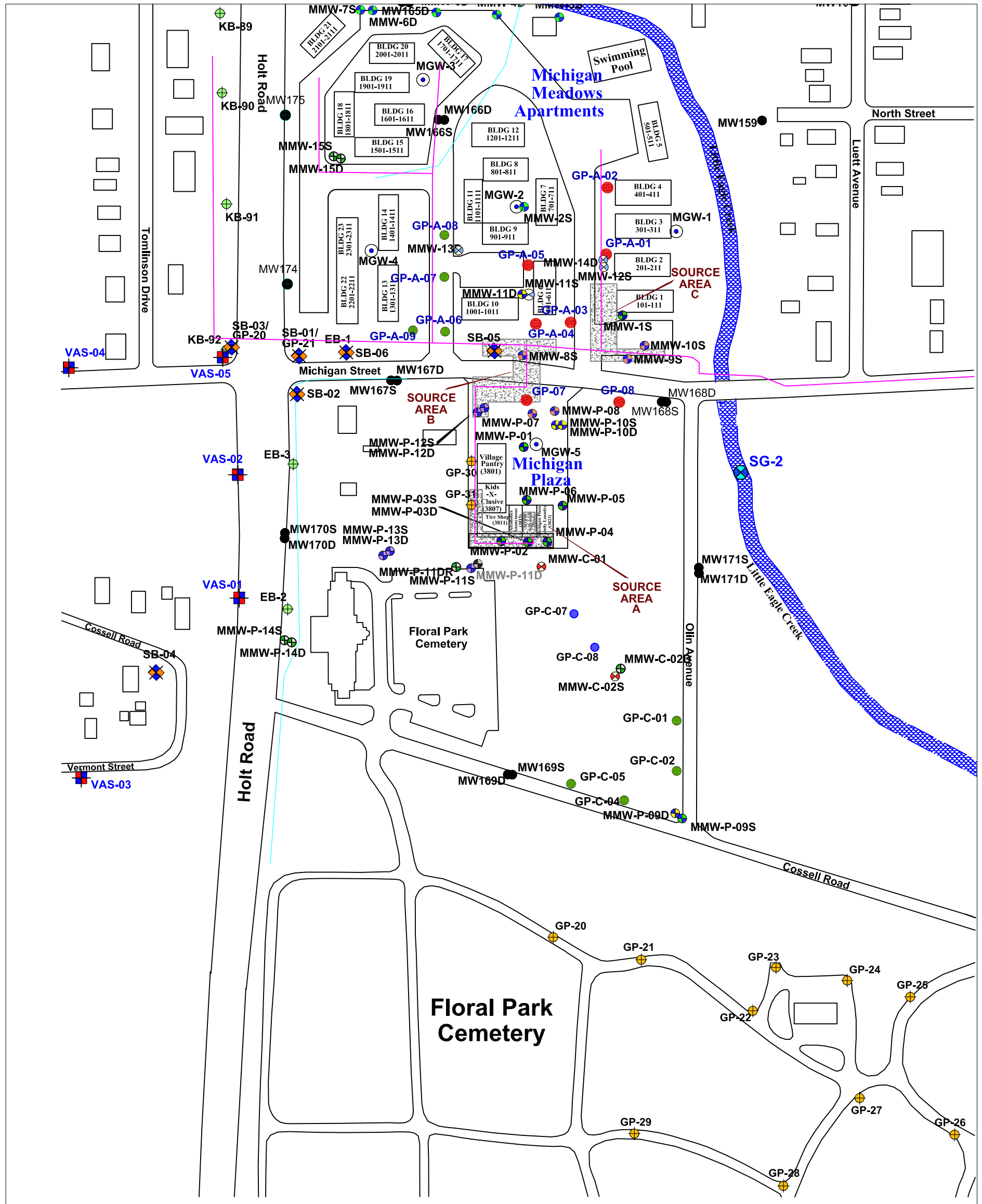
Table 11
U.S. EPA Unified Survey Data
Michigan Plaza
Indianapolis, Indiana
MUNDELL job No.: M01046

Monitor Well Locations				
Well Descriptor	Latitude NAD83(86) Decimal Degrees	Longitude NAD83(86) Decimal Degrees	Elevation NGVD29	
			Well Casing	Ground
MW-WES-02b	39.773229	-86.228306	716.60	716.28
MW-WES-02c	39.773208	-86.228302	716.69	716.23
MW-WES-03a	39.771687	-86.229283	717.68	717.42
MW-WES-03b	39.771686	-86.229302	717.70	717.41
MW-WES-04a	39.773847	-86.229579	718.14	717.85
MW-WES-04b	39.773848	-86.229603	718.14	717.37
MW-WES-05a	39.774097	-86.228324	717.19	717.04
MW-WES-05b	39.774087	-86.228341	716.97	716.60
MW-WES-05c	39.774077	-86.228347	716.49	715.95
BM "Bridge"	39.773837	-86.225033	719.33	N/A

FIGURES



Mundell & Associates, Inc. *110 S. Downey Avenue* *Indianapolis, Indiana 46219* *www.MundellAssociates.com*	**Project Number:** M01046 **File:** **Date Prepared:** 3/2/2012	**Site Vicinity Map** Michigan Plaza Indianapolis, Indiana	**Figure 1**



LEGEND

———	Fence
MW160	Keramida/Environ Monitoring Wells
MMW-P-06	MUNDELL Monitoring Wells, Michigan Plaza (September 2005)
MMW-P-07	MUNDELL Monitoring Wells (January 2007)
MMW-P-09D	MUNDELL Monitoring Wells (May-June 2007)
MMW-C-01	MUNDELL Monitoring Wells (July/August 2008)
MMW-11S	MUNDELL Monitoring Wells (November/December 2008)
GP-C-05	MUNDELL Soil Boring Locations (January 2007)
GP-07	MUNDELL Soil Boring Locations (September 2005)
GP-C-08	MUNDELL Soil Boring Locations (August 2008)
MMW-P-11D	MUNDELL Monitoring Wells (September 2011)
MGW-1	MUNDELL Soil Gas Well
GP-29	MUNDELL Soil Boring Location (December 2011)
MMW-P-11D	MUNDELL Monitoring Wells (December 2011)
VAS-01	EPA Vertical Aquifer Sampling Well Locations (November 2011)
SB-03	EPA Soil Borings
MMW-P-11D	Abandoned Monitoring Well Location
EB-2	Environ Soil Borings
———	Sanitary Sewer
———	Storm Sewer

N

SCALE
200
feet

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

Mundell
Consulting Professionals
for the Earth and the Environment

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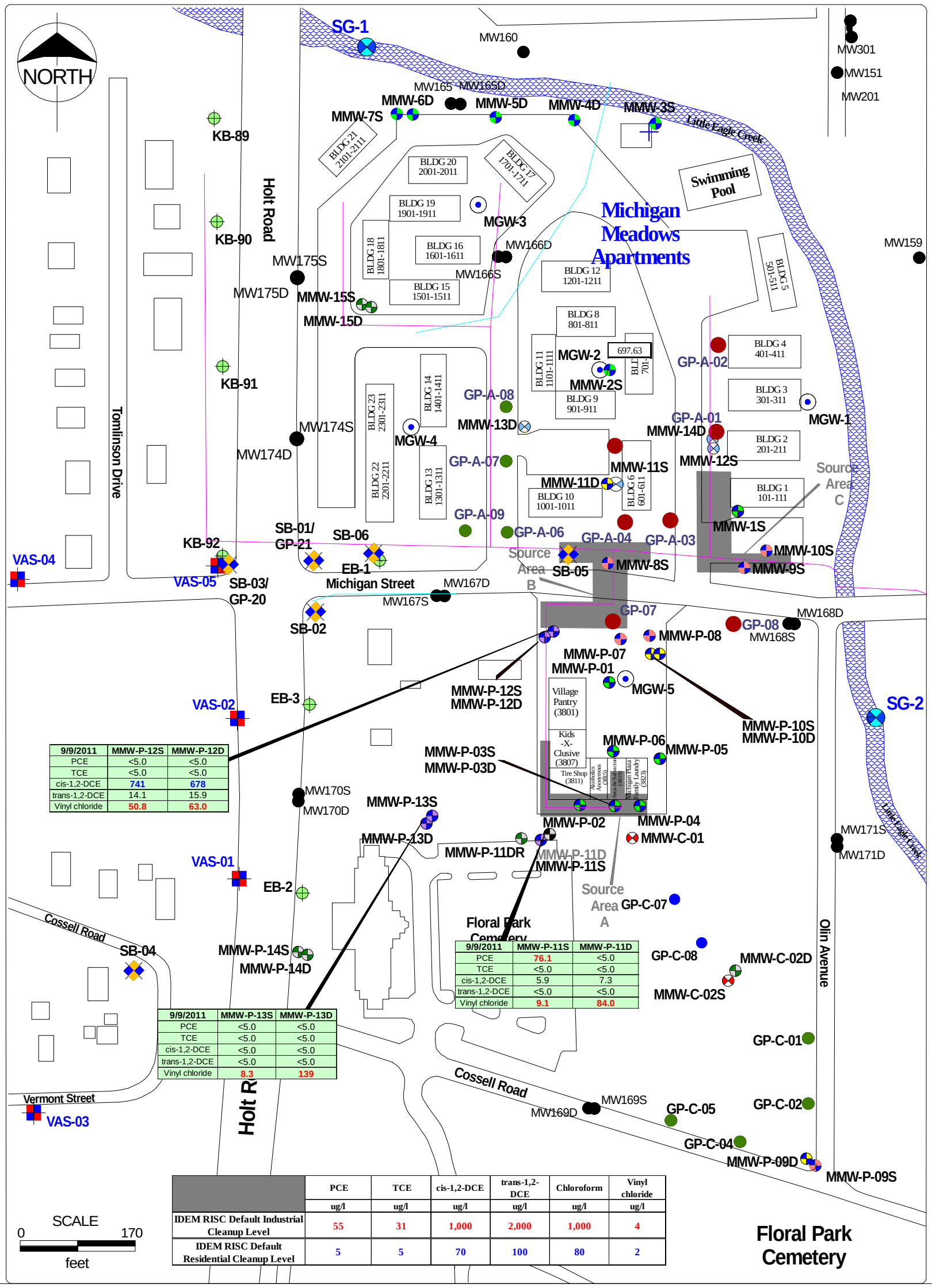
Project Number:	M01046
Drawing File:	Basemap 2011
Date Prepared:	2/01/12
Scale:	1"=200'

SITE MAP

Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, INDIANA

FIGURE

2



9/9/2011	MMW-P-12S	MMW-P-12D
PCE	<5.0	<5.0
TCE	<5.0	<5.0
cis-1,2-DCE	741	678
trans-1,2-DCE	14.1	15.9
Vinyl chloride	50.8	63.0

9/9/2011	MMW-P-11S	MMW-P-11D
PCE	76.1	<5.0
TCE	<5.0	<5.0
cis-1,2-DCE	5.9	7.3
trans-1,2-DCE	<5.0	<5.0
Vinyl chloride	9.1	84.0

9/9/2011	MMW-P-13S	MMW-P-13D
PCE	<5.0	<5.0
TCE	<5.0	<5.0
cis-1,2-DCE	<5.0	<5.0
trans-1,2-DCE	<5.0	<5.0
Vinyl chloride	8.3	139

	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 RISC Default Industrial Cleanup Level	55	31	1,000	2,000	1,000	4
IDEM RISC Default Residential Cleanup Level	5	5	70	100	80	2

LEGEND

- Fence
- MW160 — Keramida/Environ Monitoring Wells
- MMW-P-06 — MUNDELL Monitoring Wells, Michigan Plaza (September 2005)
- MMW-P-07 — MUNDELL Monitoring Wells (January 2007)
- MMW-P-09D — MUNDELL Monitoring Wells (May-June 2007)
- MMW-C-01 — MUNDELL Monitoring Wells (July/August 2008)
- MMW-11S — MUNDELL Monitoring Wells (November/December 2008)
- GP-C-05 — MUNDELL Soil Boring Locations (January 2007)
- GP-07 — MUNDELL Soil Boring Locations (September 2005)
- GP-C-08 — MUNDELL Soil Boring Locations (August 2008)
- MMW-P-11D — MUNDELL Monitoring Wells (September 2011)
- MGW-1 — MUNDELL Soil Gas Well
- GP-21 — MUNDELL Soil Boring Locations (December 2011)
- MMW-P-11D — MUNDELL Monitoring Wells (December 2011)
- VAS-01 — EPA Vertical Aquifer Sampling Well Locations (November 2011)
- SB-04 — EPA Soil Boring Locations (November 2011)
- MMW-P-11D — Abandoned Monitoring Well Location
- EB-2 — Environ Soil Borings
- Sanitary Sewer
- Storm Sewer

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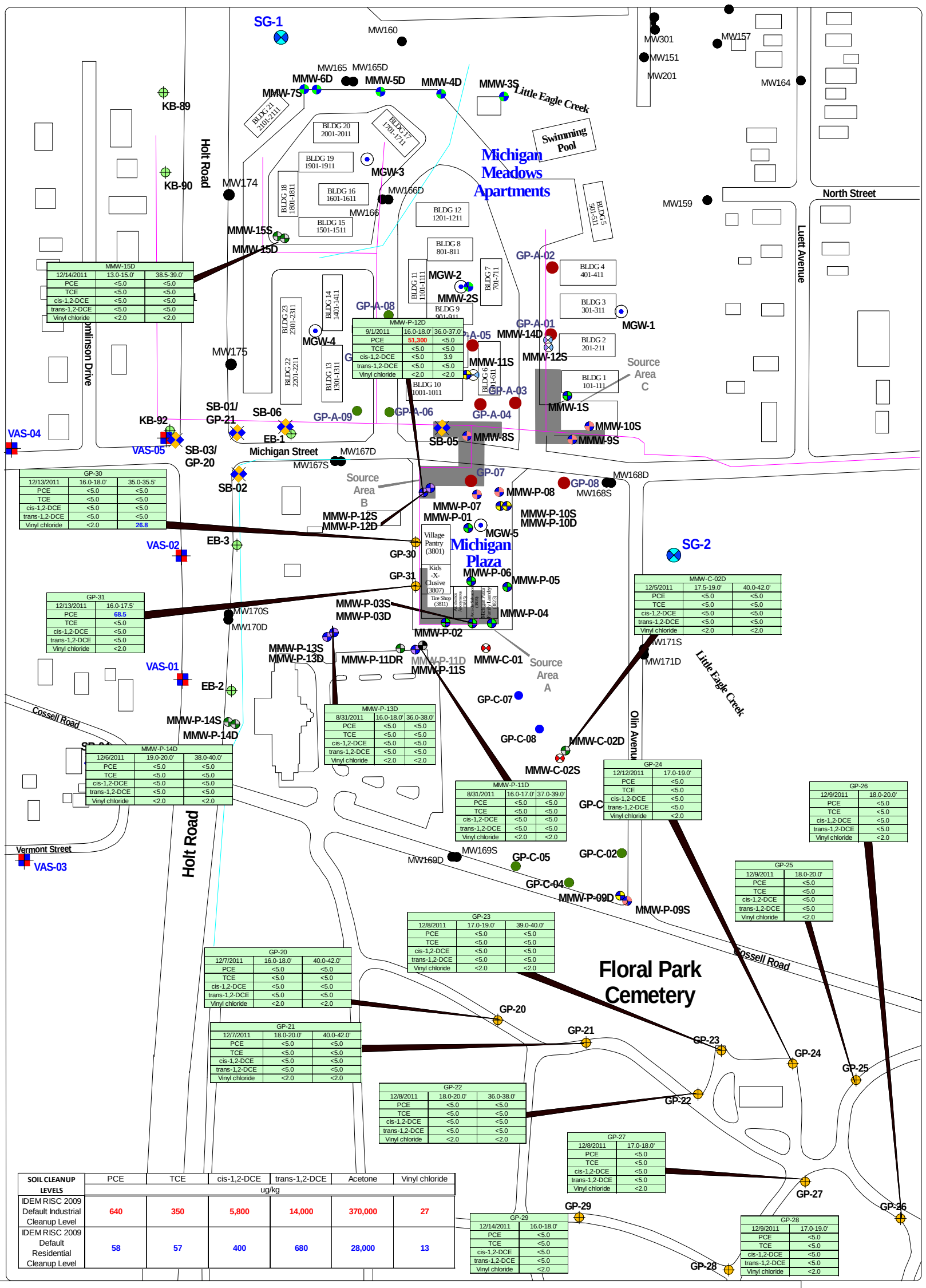
Project Number: M01046
Drawing File: GWE_1Q2012
Date Prepared: 2/18/2012
Scale: 1"=170'

Baseline Groundwater Analytical Data (ug/L) September 9, 2011

Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, Indiana

FIGURE
3



MMW-15D		
12/14/2011	13.0-15.0'	38.5-39.0'
PCE	<5.0	<5.0
TCE	<5.0	<5.0
cis-1,2-DCE	<5.0	<5.0
trans-1,2-DCE	<5.0	<5.0
Vinyl chloride	<2.0	<2.0

MMW-P-12D		
9/1/2011	16.0-18.0'	36.0-37.0'
PCE	51,300	<5.0
TCE	<5.0	<5.0
cis-1,2-DCE	<5.0	3.9
trans-1,2-DCE	<5.0	<5.0
Vinyl chloride	<2.0	<2.0

GP-30		
12/13/2011	16.0-18.0'	35.0-35.5'
PCE	<5.0	<5.0
TCE	<5.0	<5.0
cis-1,2-DCE	<5.0	<5.0
trans-1,2-DCE	<5.0	<5.0
Vinyl chloride	<2.0	26.8

GP-31	
12/13/2011	16.0-17.5'
PCE	68.5
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
Vinyl chloride	<2.0

MMW-C-02D		
12/5/2011	17.5-19.0'	40.0-42.0'
PCE	<5.0	<5.0
TCE	<5.0	<5.0
cis-1,2-DCE	<5.0	<5.0
trans-1,2-DCE	<5.0	<5.0
Vinyl chloride	<2.0	<2.0

MMW-P-13D		
8/31/2011	16.0-18.0'	36.0-38.0'
PCE	<5.0	<5.0
TCE	<5.0	<5.0
cis-1,2-DCE	<5.0	<5.0
trans-1,2-DCE	<5.0	<5.0
Vinyl chloride	<2.0	<2.0

MMW-P-14D		
12/6/2011	19.0-20.0'	38.0-40.0'
PCE	<5.0	<5.0
TCE	<5.0	<5.0
cis-1,2-DCE	<5.0	<5.0
trans-1,2-DCE	<5.0	<5.0
Vinyl chloride	<2.0	<2.0

MMW-P-11D		
8/31/2011	16.0-17.0'	37.0-39.0'
PCE	<5.0	<5.0
TCE	<5.0	<5.0
cis-1,2-DCE	<5.0	<5.0
trans-1,2-DCE	<5.0	<5.0
Vinyl chloride	<2.0	<2.0

GP-24	
12/12/2011	17.0-19.0'
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
Vinyl chloride	<2.0

GP-26	
12/9/2011	18.0-20.0'
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
Vinyl chloride	<2.0

GP-25	
12/9/2011	18.0-20.0'
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
Vinyl chloride	<2.0

GP-23		
12/8/2011	17.0-19.0'	39.0-40.0'
PCE	<5.0	<5.0
TCE	<5.0	<5.0
cis-1,2-DCE	<5.0	<5.0
trans-1,2-DCE	<5.0	<5.0
Vinyl chloride	<2.0	<2.0

GP-20		
12/7/2011	16.0-18.0'	40.0-42.0'
PCE	<5.0	<5.0
TCE	<5.0	<5.0
cis-1,2-DCE	<5.0	<5.0
trans-1,2-DCE	<5.0	<5.0
Vinyl chloride	<2.0	<2.0

GP-21		
12/7/2011	18.0-20.0'	40.0-42.0'
PCE	<5.0	<5.0
TCE	<5.0	<5.0
cis-1,2-DCE	<5.0	<5.0
trans-1,2-DCE	<5.0	<5.0
Vinyl chloride	<2.0	<2.0

GP-22		
12/8/2011	18.0-20.0'	36.0-38.0'
PCE	<5.0	<5.0
TCE	<5.0	<5.0
cis-1,2-DCE	<5.0	<5.0
trans-1,2-DCE	<5.0	<5.0
Vinyl chloride	<2.0	<2.0

GP-27	
12/8/2011	17.0-18.0'
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
Vinyl chloride	<2.0

GP-29	
12/14/2011	16.0-18.0'
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
Vinyl chloride	<2.0

GP-28	
12/9/2011	17.0-19.0'
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
Vinyl chloride	<2.0

SOIL CLEANUP LEVELS	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Acetone	Vinyl chloride
	ug/kg					
IDEM RISC 2009 Default Industrial Cleanup Level	640	350	5,800	14,000	370,000	27
IDEM RISC 2009 Default Residential Cleanup Level	58	57	400	680	28,000	13

LEGEND

- Fence
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- MMW-P-09D — MUNDELL Monitoring Wells (May-June 2007)
- MMW-C-01 — MUNDELL Monitoring Wells (July/August 2008)
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- GP-21 — MUNDELL Soil Boring Locations (December 2011)
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- MMW-P-11D — Abandoned Monitoring Well Location
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- Sanitary Sewer
- Storm Sewer

NORTH

SCALE 0 200 feet

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

Mundell
Consulting Professionals for the Earth and the Environment
110 South Downey Avenue
Indianapolis, Indiana 46219-6406
317-630-9060, fax 317-630-9065

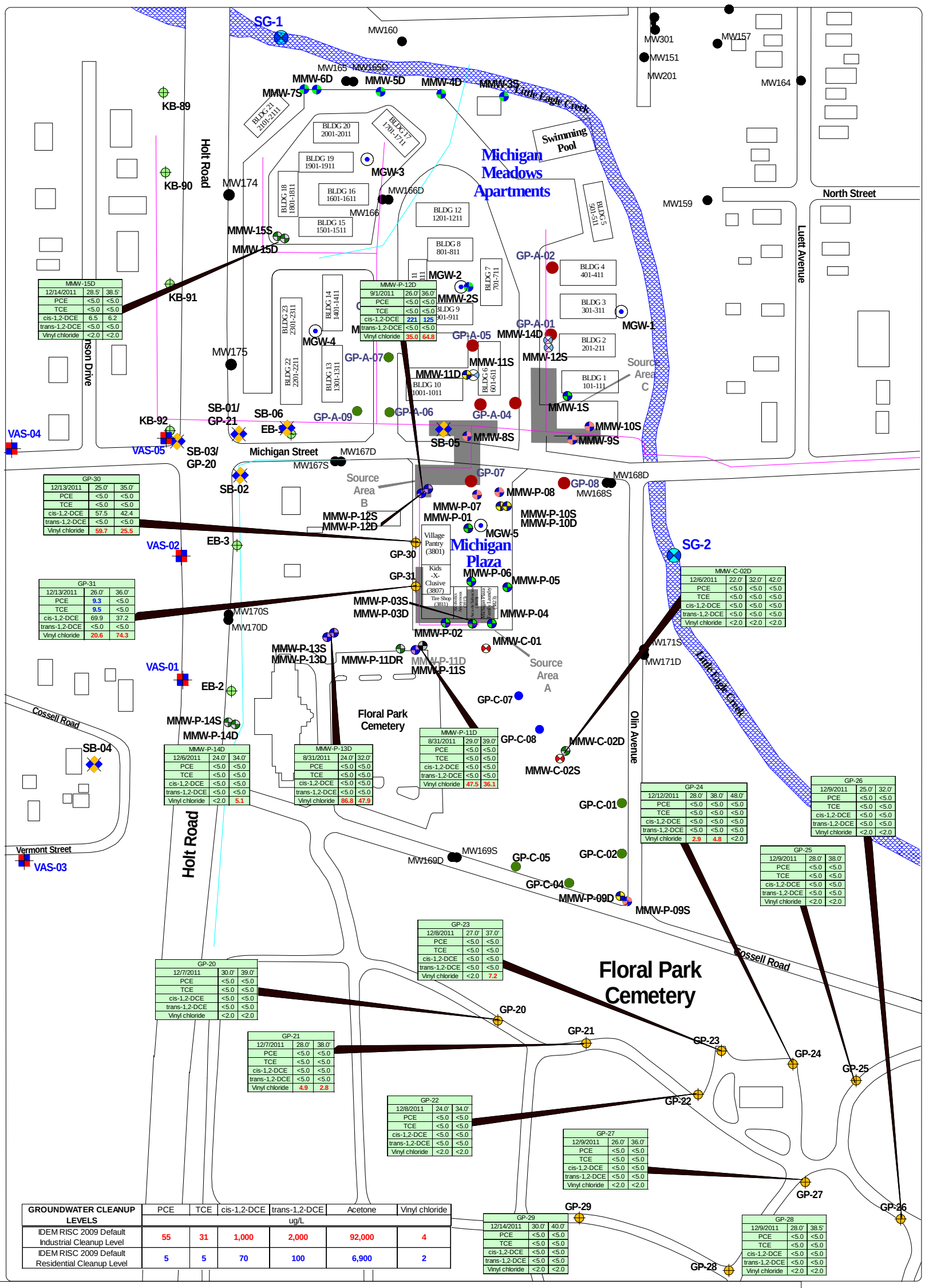
Project Number: M01046
Drawing File: Fig_4_Soil_Analytical
Date Prepared: 2/28/2011
Scale: 1"=200'

Soil Boring Analytical Data (ug/kg)

August, September and December, 2011

Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, Indiana

FIGURE 4



MMW-15D		
12/14/2011	28.5'	38.5'
PCE	<5.0	<5.0
TCE	<5.0	<5.0
cis-1,2-DCE	6.5	6.2
trans-1,2-DCE	<5.0	<5.0
Vinyl chloride	<2.0	<2.0

MMW-P-12D		
9/1/2011	26.0'	36.0'
PCE	<5.0	<5.0
TCE	<5.0	<5.0
cis-1,2-DCE	221	125
trans-1,2-DCE	<5.0	<5.0
Vinyl chloride	35.0	64.8

GP-30		
12/13/2011	25.0'	35.0'
PCE	<5.0	<5.0
TCE	<5.0	<5.0
cis-1,2-DCE	57.5	42.4
trans-1,2-DCE	<5.0	<5.0
Vinyl chloride	59.7	25.5

GP-31		
12/13/2011	26.0'	36.0'
PCE	9.3	<5.0
TCE	9.5	<5.0
cis-1,2-DCE	69.9	37.2
trans-1,2-DCE	<5.0	<5.0
Vinyl chloride	20.6	74.3

MMW-C-02D			
12/6/2011	22.0'	32.0'	42.0'
PCE	<5.0	<5.0	<5.0
TCE	<5.0	<5.0	<5.0
cis-1,2-DCE	<5.0	<5.0	<5.0
trans-1,2-DCE	<5.0	<5.0	<5.0
Vinyl chloride	<2.0	<2.0	<2.0

MMW-P-14D		
12/6/2011	24.0'	34.0'
PCE	<5.0	<5.0
TCE	<5.0	<5.0
cis-1,2-DCE	<5.0	<5.0
trans-1,2-DCE	<5.0	<5.0
Vinyl chloride	<2.0	5.1

MMW-P-13D		
8/31/2011	24.0'	32.0'
PCE	<5.0	<5.0
TCE	<5.0	<5.0
cis-1,2-DCE	<5.0	<5.0
trans-1,2-DCE	<5.0	<5.0
Vinyl chloride	86.8	47.9

MMW-P-11D		
8/31/2011	29.0'	39.0'
PCE	<5.0	<5.0
TCE	<5.0	<5.0
cis-1,2-DCE	<5.0	<5.0
trans-1,2-DCE	<5.0	<5.0
Vinyl chloride	47.5	36.1

GP-24			
12/12/2011	28.0'	38.0'	48.0'
PCE	<5.0	<5.0	<5.0
TCE	<5.0	<5.0	<5.0
cis-1,2-DCE	<5.0	<5.0	<5.0
trans-1,2-DCE	<5.0	<5.0	<5.0
Vinyl chloride	2.9	4.8	<2.0

GP-26		
12/9/2011	25.0'	32.0'
PCE	<5.0	<5.0
TCE	<5.0	<5.0
cis-1,2-DCE	<5.0	<5.0
trans-1,2-DCE	<5.0	<5.0
Vinyl chloride	<2.0	<2.0

GP-25		
12/9/2011	28.0'	38.0'
PCE	<5.0	<5.0
TCE	<5.0	<5.0
cis-1,2-DCE	<5.0	<5.0
trans-1,2-DCE	<5.0	<5.0
Vinyl chloride	<2.0	<2.0

GP-20		
12/7/2011	30.0'	39.0'
PCE	<5.0	<5.0
TCE	<5.0	<5.0
cis-1,2-DCE	<5.0	<5.0
trans-1,2-DCE	<5.0	<5.0
Vinyl chloride	<2.0	<2.0

GP-23		
12/8/2011	27.0'	37.0'
PCE	<5.0	<5.0
TCE	<5.0	<5.0
cis-1,2-DCE	<5.0	<5.0
trans-1,2-DCE	<5.0	<5.0
Vinyl chloride	<2.0	7.2

GP-21		
12/7/2011	28.0'	38.0'
PCE	<5.0	<5.0
TCE	<5.0	<5.0
cis-1,2-DCE	<5.0	<5.0
trans-1,2-DCE	<5.0	<5.0
Vinyl chloride	4.9	2.8

GP-22		
12/8/2011	24.0'	34.0'
PCE	<5.0	<5.0
TCE	<5.0	<5.0
cis-1,2-DCE	<5.0	<5.0
trans-1,2-DCE	<5.0	<5.0
Vinyl chloride	<2.0	<2.0

GP-27		
12/9/2011	26.0'	36.0'
PCE	<5.0	<5.0
TCE	<5.0	<5.0
cis-1,2-DCE	<5.0	<5.0
trans-1,2-DCE	<5.0	<5.0
Vinyl chloride	<2.0	<2.0

GP-29		
12/14/2011	30.0'	40.0'
PCE	<5.0	<5.0
TCE	<5.0	<5.0
cis-1,2-DCE	<5.0	<5.0
trans-1,2-DCE	<5.0	<5.0
Vinyl chloride	<2.0	<2.0

GP-28		
12/9/2011	28.0'	38.5'
PCE	<5.0	<5.0
TCE	<5.0	<5.0
cis-1,2-DCE	<5.0	<5.0
trans-1,2-DCE	<5.0	<5.0
Vinyl chloride	<2.0	<2.0

GROUNDWATER CLEANUP LEVELS	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Acetone	Vinyl chloride
	ug/L					
IDEM RISC 2009 Default Industrial Cleanup Level	55	31	1,000	2,000	92,000	4
IDEM RISC 2009 Default Residential Cleanup Level	5	5	70	100	6,900	2

LEGEND

- Fence
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- MMW-P-06 — MUNDELL Monitoring Wells, Michigan Plaza (September 2005)
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NORTH

SCALE 0 200 feet

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

Mundell
Consulting Professionals for the Earth and the Environment
110 South Downey Avenue
Indianapolis, Indiana 46219-6406
317-630-9060, fax 317-630-9065

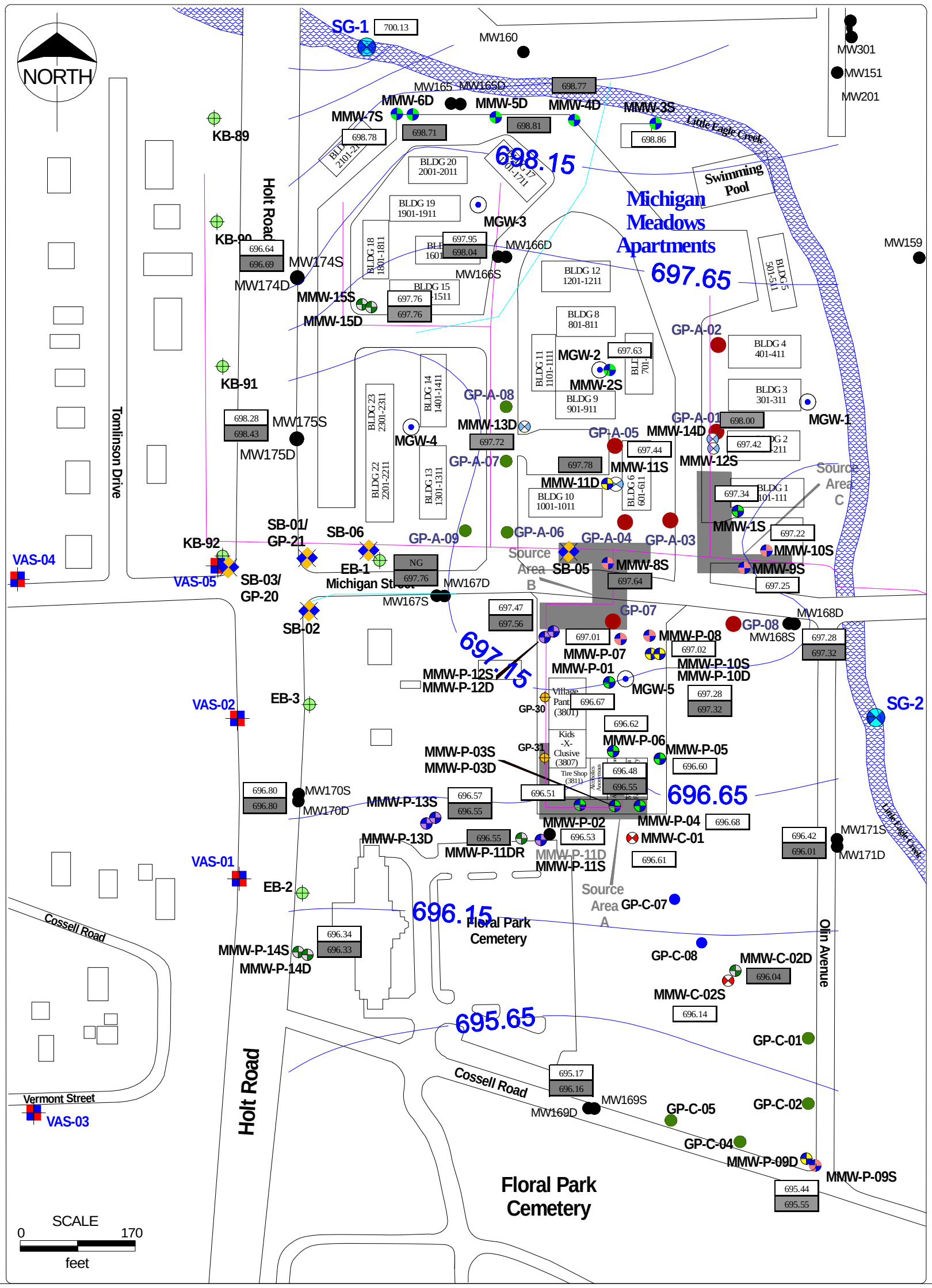
Project Number: M01046
Drawing File: Fig_4_SBGWA.skf
Date Prepared: 2/28/2011
Scale: 1"=200'

Soil Boring Groundwater Analytical Data

(ug/L)
August, September and December, 2011

Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, Indiana

FIGURE
5



LEGEND

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698 - - - - - - Potentiometric Surface Equipotential Lines
Contour Interval = 0.5 feet

Water Level as Measured on October 17, 2011
(gray boxes indicate groundwater elevation values not used for the creation of the Shallow Potentiometric Surface Map)
NG - Not Gauged

Mundell
Consulting Professionals for the Earth and the Environment
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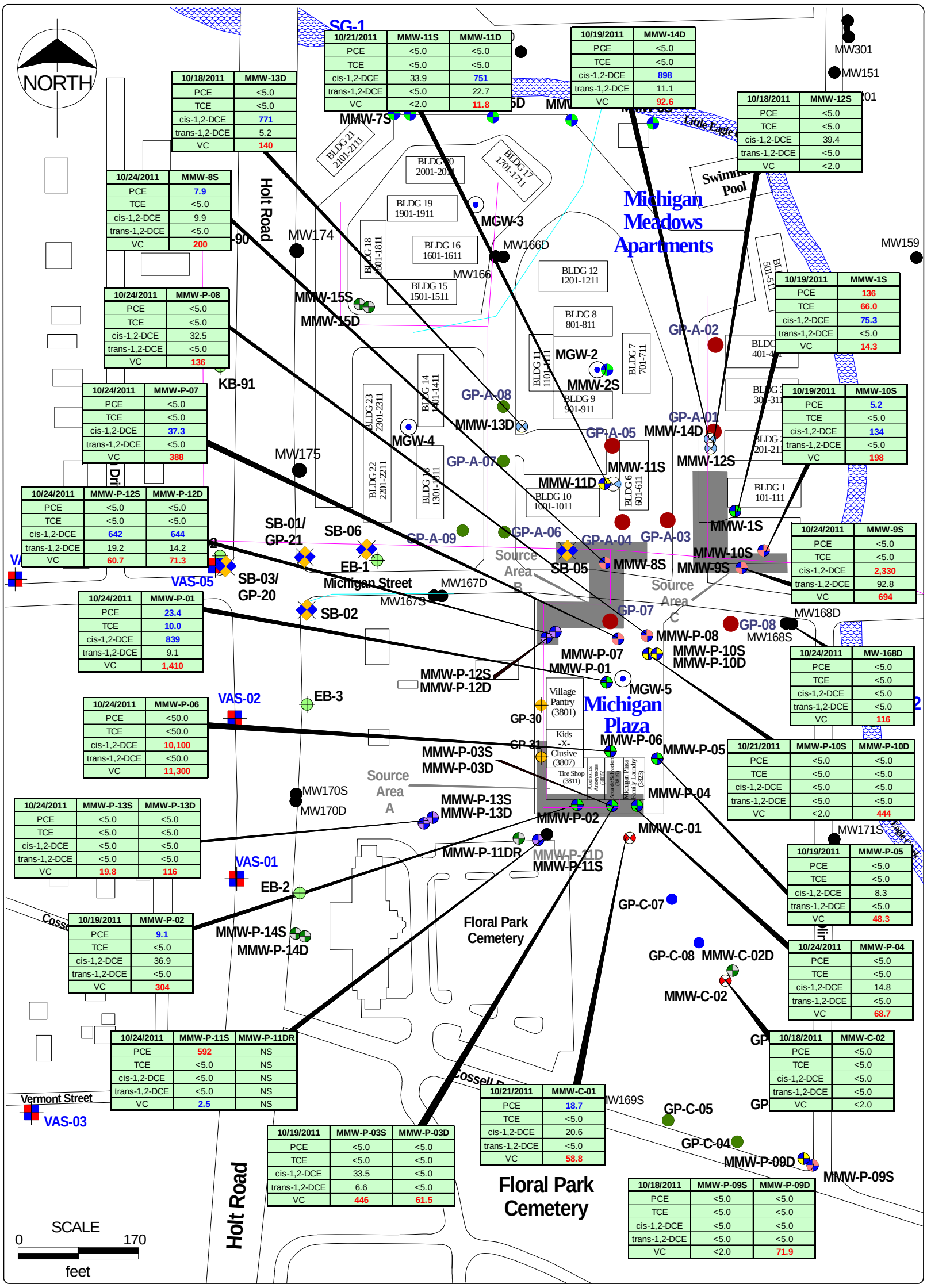
317-630-9060, fax 317-630-9065

Project Number:	M01046
Drawing File:	Potentiometric.skf
Date Prepared:	1/13/2012
Scale:	1"=170'

Shallow Potentiometric Surface Map
October 17, 2011

Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, Indiana

FIGURE
6



10/18/2011	MMW-13D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	771
trans-1,2-DCE	5.2
VC	140

10/21/2011	MMW-11S	MMW-11D
PCE	<5.0	<5.0
TCE	<5.0	<5.0
cis-1,2-DCE	33.9	751
trans-1,2-DCE	<5.0	22.7
VC	<2.0	11.8

10/19/2011	MMW-14D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	898
trans-1,2-DCE	11.1
VC	92.6

10/18/2011	MMW-12S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	39.4
trans-1,2-DCE	<5.0
VC	<2.0

10/24/2011	MMW-8S
PCE	7.9
TCE	<5.0
cis-1,2-DCE	9.9
trans-1,2-DCE	<5.0
VC	200

10/19/2011	MMW-1S
PCE	136
TCE	66.0
cis-1,2-DCE	75.3
trans-1,2-DCE	<5.0
VC	14.3

10/24/2011	MMW-P-08
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	32.5
trans-1,2-DCE	<5.0
VC	136

10/24/2011	MMW-P-07
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	37.3
trans-1,2-DCE	<5.0
VC	388

10/19/2011	MMW-10S
PCE	5.2
TCE	<5.0
cis-1,2-DCE	134
trans-1,2-DCE	<5.0
VC	198

10/24/2011	MMW-P-12S	MMW-P-12D
PCE	<5.0	<5.0
TCE	<5.0	<5.0
cis-1,2-DCE	642	644
trans-1,2-DCE	19.2	14.2
VC	60.7	71.3

10/24/2011	MMW-9S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	2,330
trans-1,2-DCE	92.8
VC	694

10/24/2011	MMW-P-01
PCE	23.4
TCE	10.0
cis-1,2-DCE	839
trans-1,2-DCE	9.1
VC	1,410

10/24/2011	MW-168D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	116

10/24/2011	MMW-P-06
PCE	<50.0
TCE	<50.0
cis-1,2-DCE	10,100
trans-1,2-DCE	<50.0
VC	11,300

10/21/2011	MMW-P-10S	MMW-P-10D
PCE	<5.0	<5.0
TCE	<5.0	<5.0
cis-1,2-DCE	<5.0	<5.0
trans-1,2-DCE	<5.0	<5.0
VC	<2.0	444

10/24/2011	MMW-P-13S	MMW-P-13D
PCE	<5.0	<5.0
TCE	<5.0	<5.0
cis-1,2-DCE	<5.0	<5.0
trans-1,2-DCE	<5.0	<5.0
VC	19.8	116

10/19/2011	MMW-P-05
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	8.3
trans-1,2-DCE	<5.0
VC	48.3

10/19/2011	MMW-P-02
PCE	9.1
TCE	<5.0
cis-1,2-DCE	36.9
trans-1,2-DCE	<5.0
VC	304

10/24/2011	MMW-P-04
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	14.8
trans-1,2-DCE	<5.0
VC	68.7

10/24/2011	MMW-P-11S	MMW-P-11DR
PCE	592	NS
TCE	<5.0	NS
cis-1,2-DCE	<5.0	NS
trans-1,2-DCE	<5.0	NS
VC	2.5	NS

10/18/2011	MMW-C-02
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	<2.0

10/21/2011	MMW-C-01
PCE	18.7
TCE	<5.0
cis-1,2-DCE	20.6
trans-1,2-DCE	<5.0
VC	58.8

10/19/2011	MMW-P-03S	MMW-P-03D
PCE	<5.0	<5.0
TCE	<5.0	<5.0
cis-1,2-DCE	33.5	<5.0
trans-1,2-DCE	6.6	<5.0
VC	446	61.5

10/18/2011	MMW-P-09S	MMW-P-09D
PCE	<5.0	<5.0
TCE	<5.0	<5.0
cis-1,2-DCE	<5.0	<5.0
trans-1,2-DCE	<5.0	<5.0
VC	<2.0	71.9

LEGEND

- Fence
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- Storm Sewer

	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	5	5	70	100	2

10/21/2011	MMW-C-01
PCE	18.7
TCE	<5.0
cis-1,2-DCE	20.6
trans-1,2-DCE	<5.0
VC	58.8

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
VC = Vinyl Chloride
NS = Not Sampled

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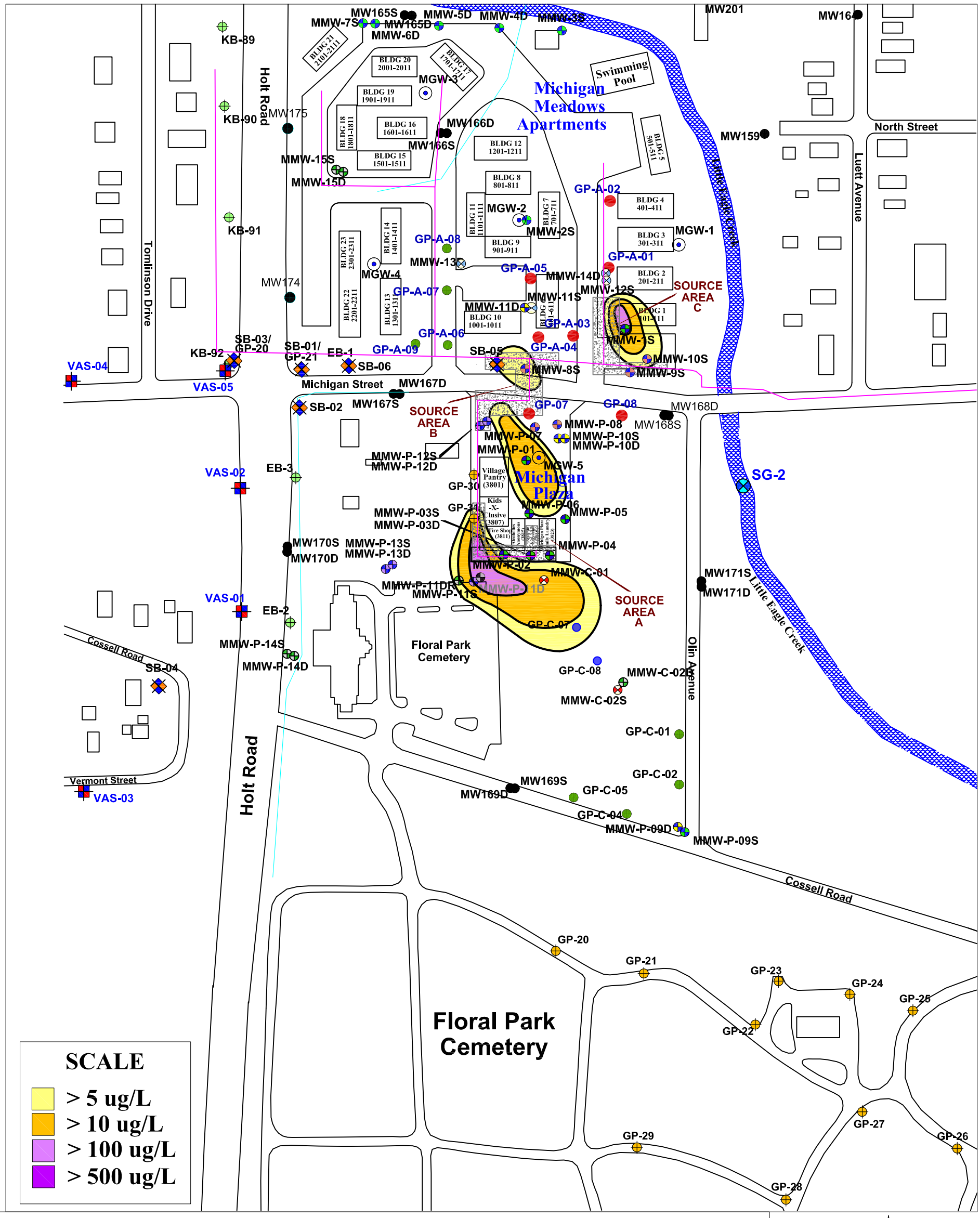
317-630-9060, fax 317-630-9065

Project Number: M01046
Drawing File: Fig_7 GW Analytical.skf
Date Prepared: 1/13/2012
Scale: 1"=170'

Groundwater Analytical Data October 2011

(ug/L)
Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, Indiana

FIGURE
7



LEGEND

———	Fence
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———	Sanitary Sewer
———	Storm Sewer

N

SCALE
200
feet

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

Mundell
Consulting Professionals for the Earth and the Environment

110 South Downey Avenue
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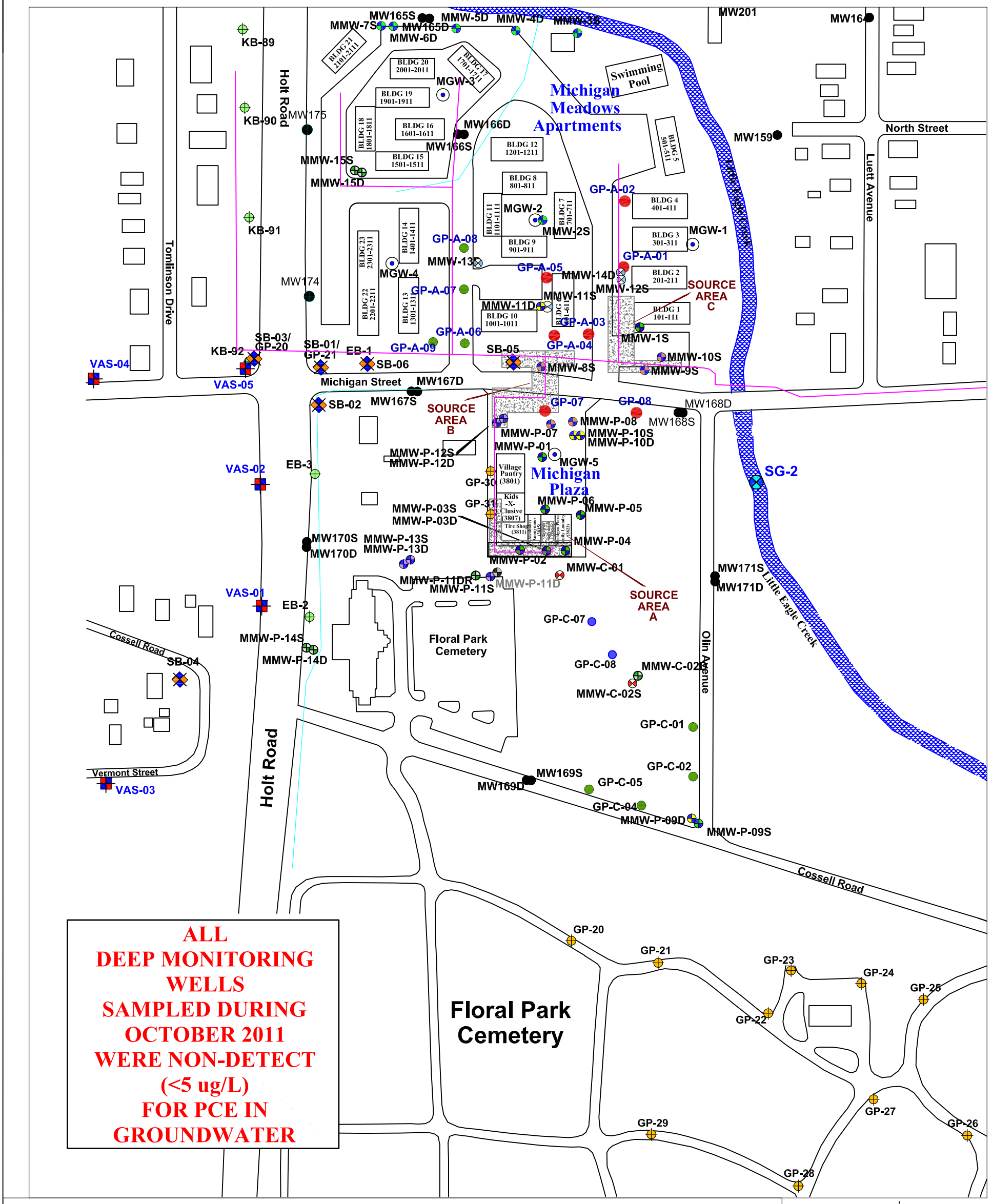
www.MundellAssociates.com

Project Number:	M01046
Drawing File:	Basemap 2011
Date Prepared:	3/15/2012
Scale:	1"=200'

PCE DISTRIBURION IN SHALLOW GROUNDWATER (OCTOBER 2011)
Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, INDIANA

FIGURE
8



ALL DEEP MONITORING WELLS SAMPLED DURING OCTOBER 2011 WERE NON-DETECT (<5 ug/L) FOR PCE IN GROUNDWATER

LEGEND

Fence	
MW160	Keramida/Environ Monitoring Wells
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N

SCALE 200 feet

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

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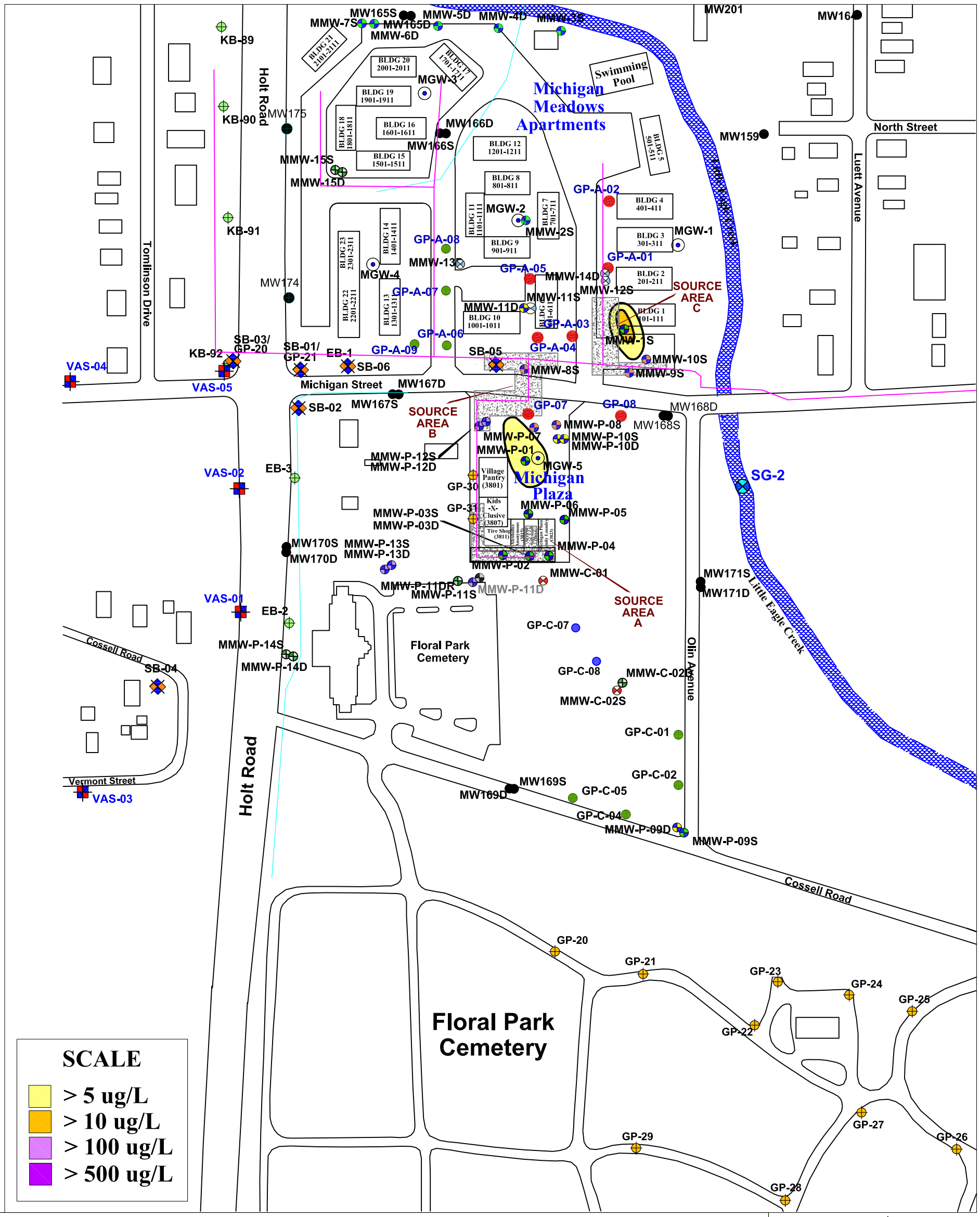
Project Number: M01046
Drawing File: Basemap 2011
Date Prepared: 3/15/2012
Scale: 1"=200'

PCE DISTRIBUTION IN DEEP GROUNDWATER (OCTOBER 2011)
Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, INDIANA

FIGURE 9



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GP-C-08	MUNDELL Soil Boring Locations (August 2008)
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MGW-1	MUNDELL Soil Gas Well
GP-29	MUNDELL Soil Boring Location (December 2011)
MMW-P-11D	MUNDELL Monitoring Wells (December 2011)
VAS-01	EPA Vertical Aquifer Sampling Well Locations (November 2011)
SB-03	EPA Soil Borings
MMW-P-11D	Abandoned Monitoring Well Location
EB-2	Environ Soil Borings
	Sanitary Sewer
	Storm Sewer

N

SCALE
200
feet

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

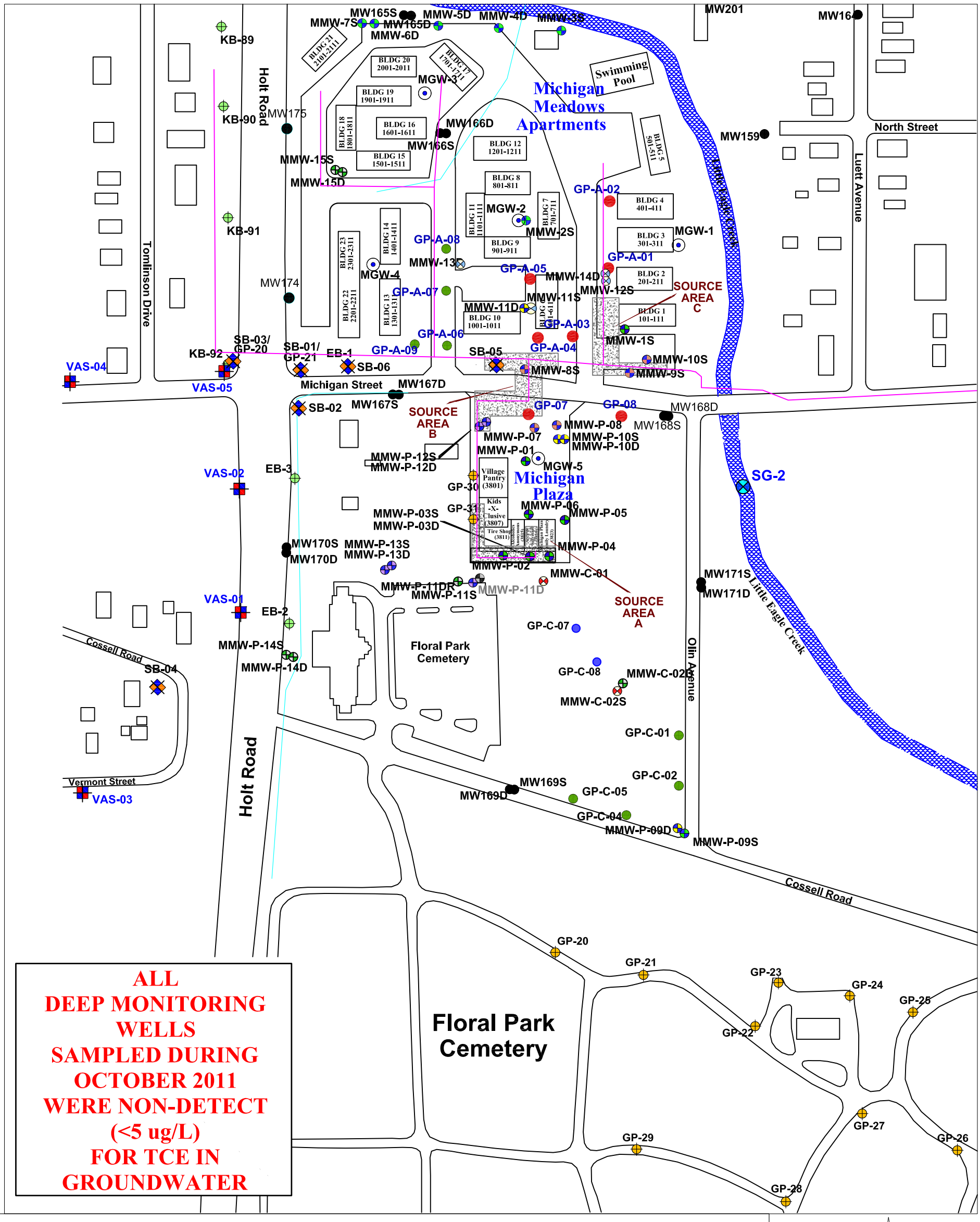
Mundell
Consulting Professionals for the Earth and the Environment

110 South Downey Avenue
Indianapolis, Indiana 46219
317-630-9060, fax 317-630-9065
www.MundellAssociates.com

Project Number:	M01046
Drawing File:	Basemap 2011
Date Prepared:	3/13/2012
Scale:	1"=200'

TCE DISTRIBUTION IN SHALLOW GROUNDWATER (OCTOBER 2011)
Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, INDIANA

FIGURE
10



ALL DEEP MONITORING WELLS SAMPLED DURING OCTOBER 2011 WERE NON-DETECT (<5 ug/L) FOR TCE IN GROUNDWATER

LEGEND

	Fence
MW160	Keramida/Environ Monitoring Wells
MMW-P-06	MUNDELL Monitoring Wells, Michigan Plaza (September 2005)
MMW-P-07	MUNDELL Monitoring Wells (January 2007)
MMW-P-09D	MUNDELL Monitoring Wells (May-June 2007)
MMW-C-01	MUNDELL Monitoring Wells (July/August 2008)
MMW-11S	MUNDELL Monitoring Wells (November/December 2008)
GP-C-05	MUNDELL Soil Boring Locations (January 2007)
GP-07	MUNDELL Soil Boring Locations (September 2005)
GP-C-08	MUNDELL Soil Boring Locations (August 2008)
MMW-P-11D	MUNDELL Monitoring Wells (September 2011)
MGW-1	MUNDELL Soil Gas Well
GP-29	MUNDELL Soil Boring Location (December 2011)
MMW-P-11D	MUNDELL Monitoring Wells (December 2011)
VAS-01	EPA Vertical Aquifer Sampling Well Locations (November 2011)
SB-03	EPA Soil Borings
MMW-P-11D	Abandoned Monitoring Well Location
EB-2	Environ Soil Borings
	Sanitary Sewer
	Storm Sewer

N

SCALE 200 feet

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

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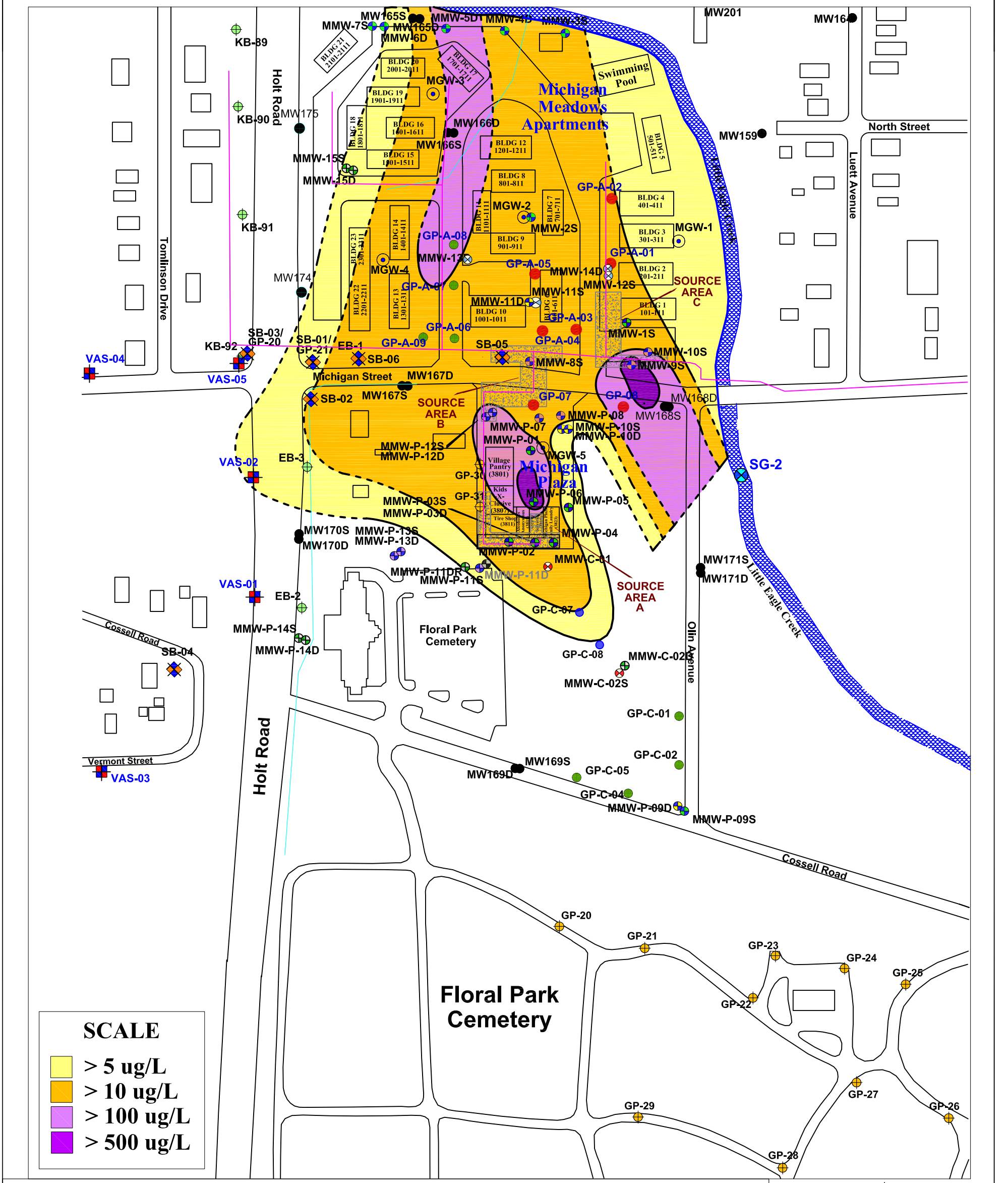
Date Prepared:	3/12/2012
Scale:	1"=200'

TCE DISTRIBUTION IN DEEP GROUNDWATER (OCTOBER 2011)
Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, INDIANA

FIGURE 11



SCALE

- > 5 ug/L
- > 10 ug/L
- > 100 ug/L
- > 500 ug/L

LEGEND

Fence	
MW160	Keramida/Environ Monitoring Wells
MMW-P-06	MUNDELL Monitoring Wells, Michigan Plaza (September 2005)
MMW-P-07	MUNDELL Monitoring Wells (January 2007)
MMW-P-09D	MUNDELL Monitoring Wells (May-June 2007)
MMW-C-01	MUNDELL Monitoring Wells (July/August 2008)
MMW-11S	MUNDELL Monitoring Wells (November/December 2008)
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GP-07	MUNDELL Soil Boring Locations (September 2005)
GP-C-08	MUNDELL Soil Boring Locations (August 2008)
MMW-P-11D	MUNDELL Monitoring Wells (September 2011)
MGW-1	MUNDELL Soil Gas Well
GP-29	MUNDELL Soil Boring Location (December 2011)
MMW-P-11D	MUNDELL Monitoring Wells (December 2011)
VAS-01	EPA Vertical Aquifer Sampling Well Locations (November 2011)
SB-03	EPA Soil Borings
MMW-P-11D	Abandoned Monitoring Well Location
EB-2	Environ Soil Borings
	Sanitary Sewer
	Storm Sewer

N

SCALE 200 feet

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

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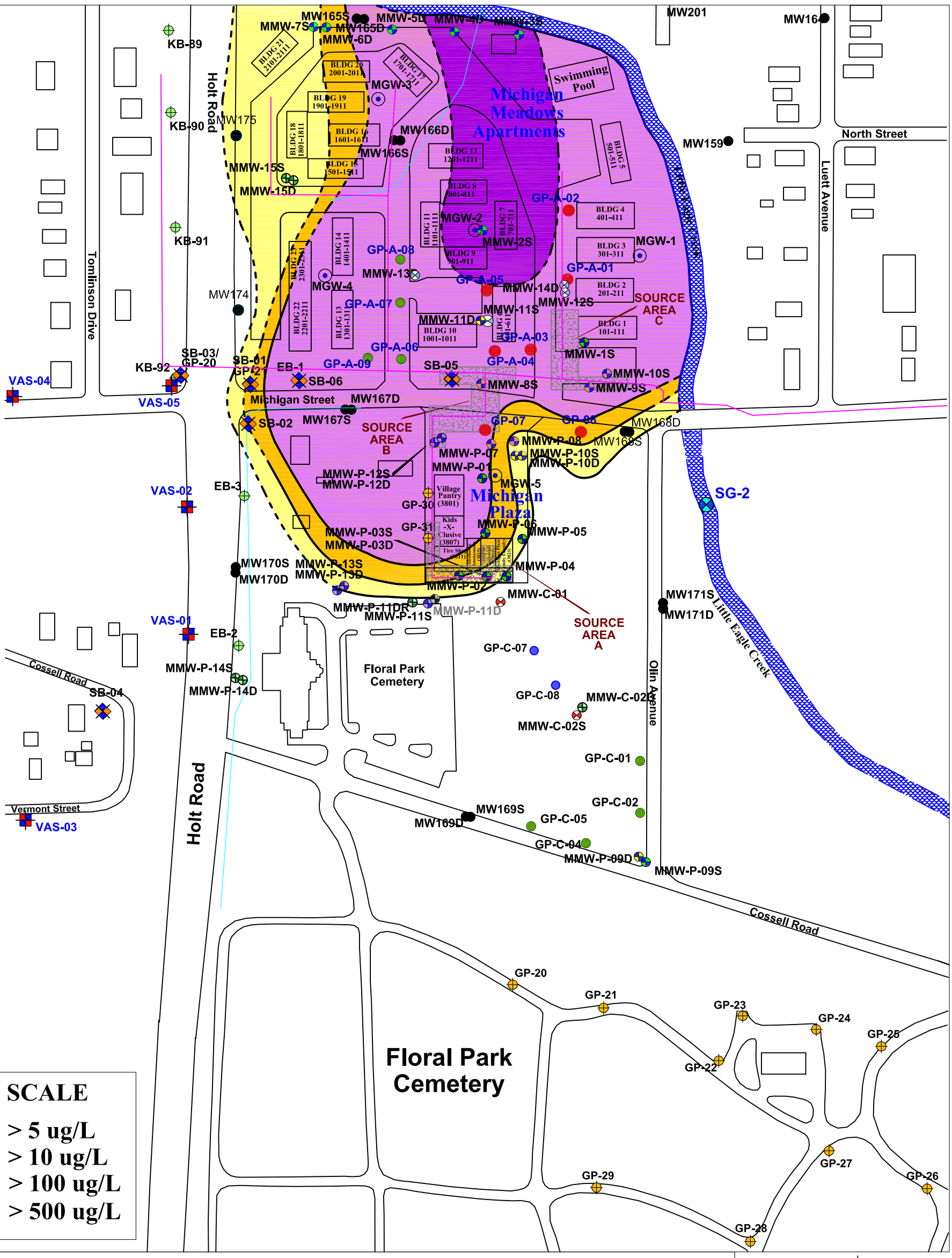
Drawing File:	Basemap 2011
Date Prepared:	3/13/2012
Scale:	1"=200'

Cis-1,2-DCE DISTRIBUTION IN SHALLOW GROUNDWATER (OCTOBER 2011)

Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, INDIANA

FIGURE 12



LEGEND

———	Fence
MW160	Keramida/Environ Monitoring Wells
MMW-P-06	MUNDELL Monitoring Wells, Michigan Plaza (September 2005)
MMW-P-07	MUNDELL Monitoring Wells (January 2007)
MMW-P-09D	MUNDELL Monitoring Wells (May-June 2007)
MMW-C-01	MUNDELL Monitoring Wells (July/August 2008)
MMW-11S	MUNDELL Monitoring Wells (November/December 2008)
GP-C-05	MUNDELL Soil Boring Locations (January 2007)
GP-07	MUNDELL Soil Boring Locations (September 2005)
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MMW-P-11D	MUNDELL Monitoring Wells (December 2011)
VAS-01	EPA Vertical Aquifer Sampling Well Locations (November 2011)
SB-03	EPA Soil Borings
MMW-P-11D	Abandoned Monitoring Well Location
EB-2	Environ Soil Borings
	Sanitary Sewer
	Storm Sewer

N

SCALE 200 feet

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

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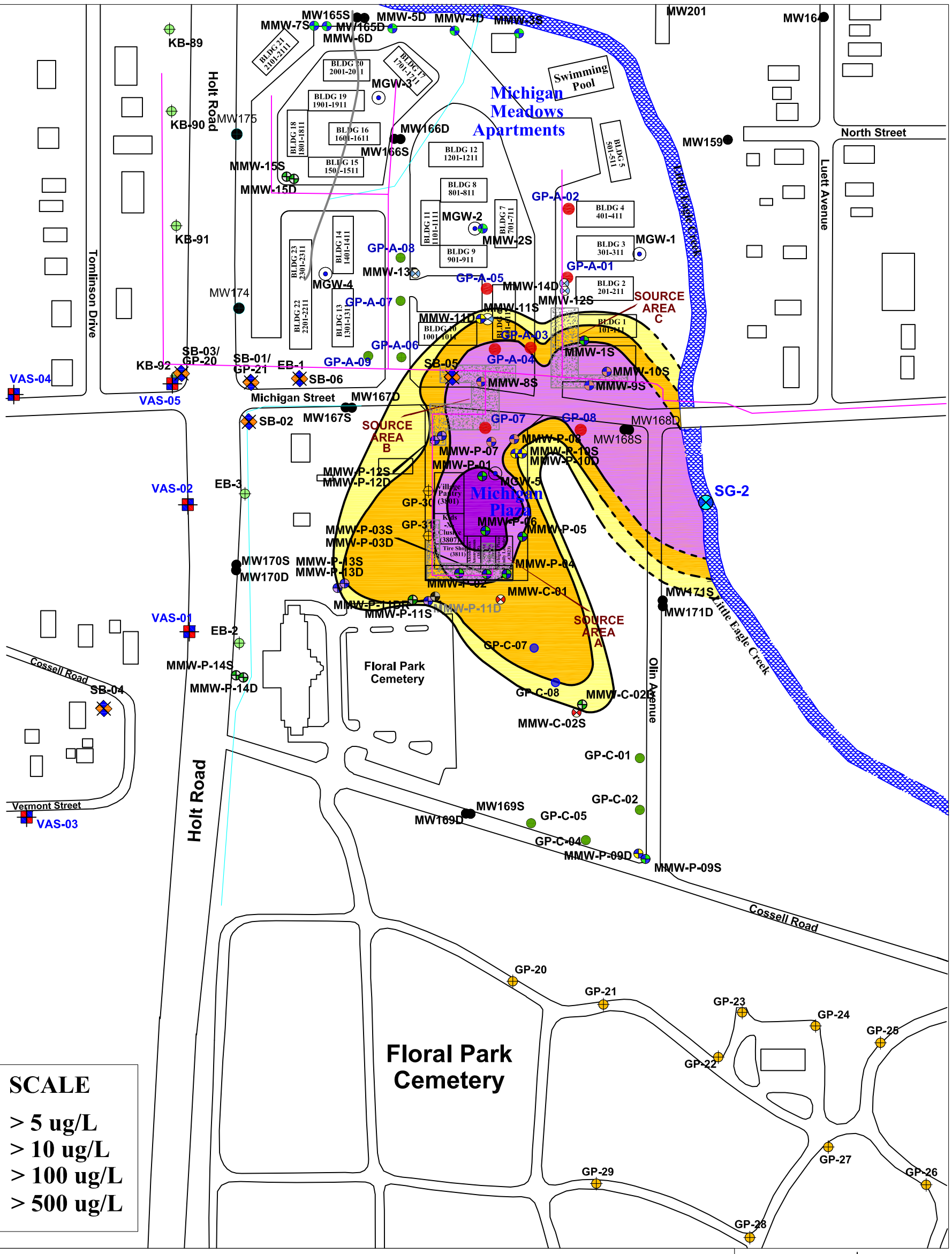
Project Number:	M01046
Drawing File:	Basemap 2011
Date Prepared:	3/13/2012
Scale:	1"=200'

Cis-1,2-DCE DISTRIBUTION IN DEEP GROUNDWATER (OCTOBER 2011)

Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, INDIANA

FIGURE 13



LEGEND

Fence	
MW160	Keramida/Environ Monitoring Wells
MMW-P-06	MUNDELL Monitoring Wells, Michigan Plaza (September 2005)
MMW-P-07	MUNDELL Monitoring Wells (January 2007)
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MMW-P-11D	MUNDELL Monitoring Wells (December 2011)
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EB-2	Environ Soil Borings
	Sanitary Sewer
	Storm Sewer

N

SCALE
200
feet

Keramida Monitoring Well Locations
Referenced from Keramida
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March 13, 2002

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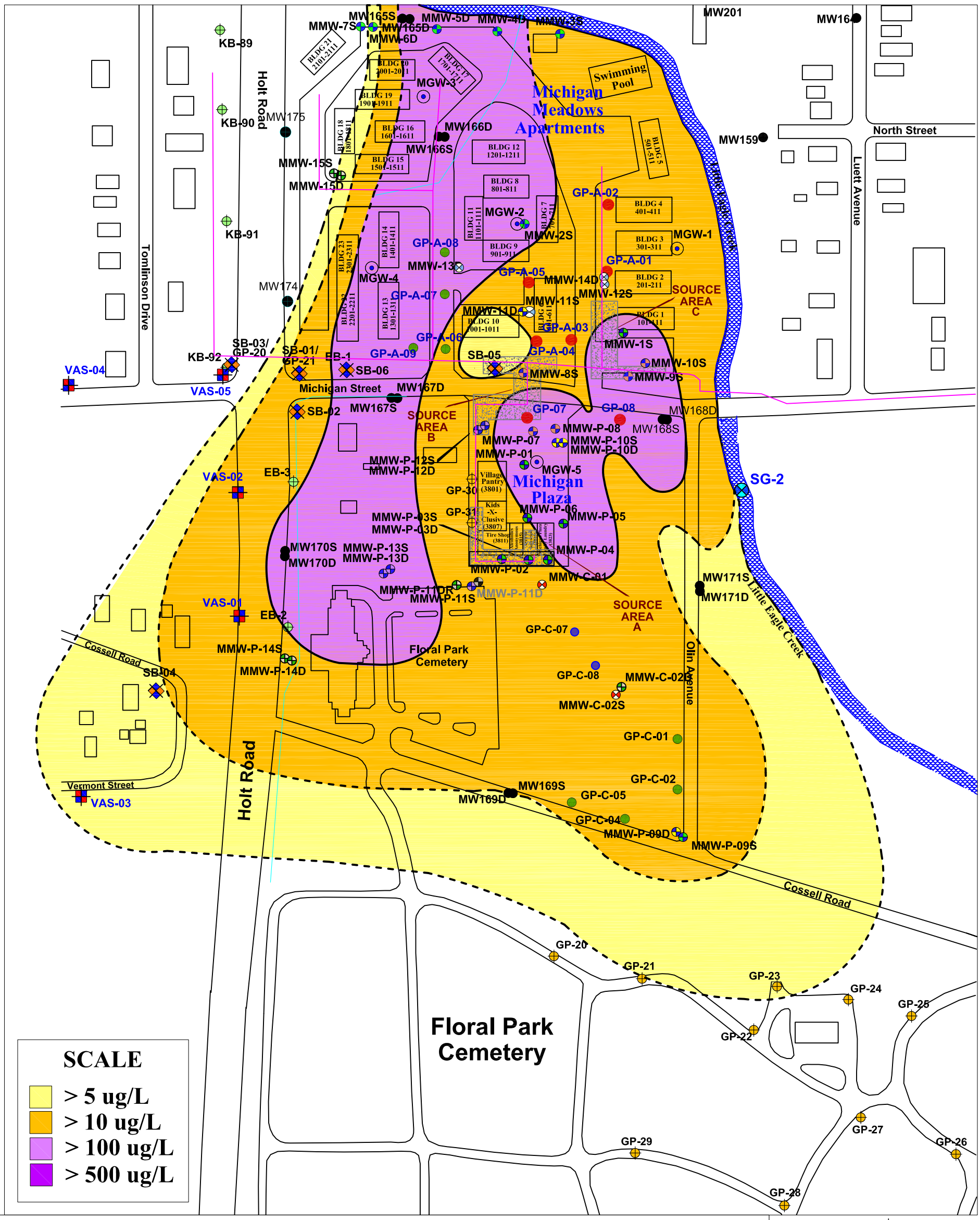
Drawing File:	Basemap 2011
Date Prepared:	3/12/2012
Scale:	1"=200'

VINYL CHLORIDE DISTRIBUTION IN SHALLOW GROUNDWATER
(OCTOBER 2011)
Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, INDIANA

FIGURE
14



LEGEND

	Fence
MW160	Keramida/Environ Monitoring Wells
MMW-P-06	MUNDELL Monitoring Wells, Michigan Plaza (September 2005)
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MMW-P-11D	MUNDELL Monitoring Wells (December 2011)
VAS-01	EPA Vertical Aquifer Sampling Well Locations (November 2011)
SB-03	EPA Soil Borings
MMW-P-11D	Abandoned Monitoring Well Location
EB-2	Environ Soil Borings
	Sanitary Sewer
	Storm Sewer

N

SCALE
200
feet

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

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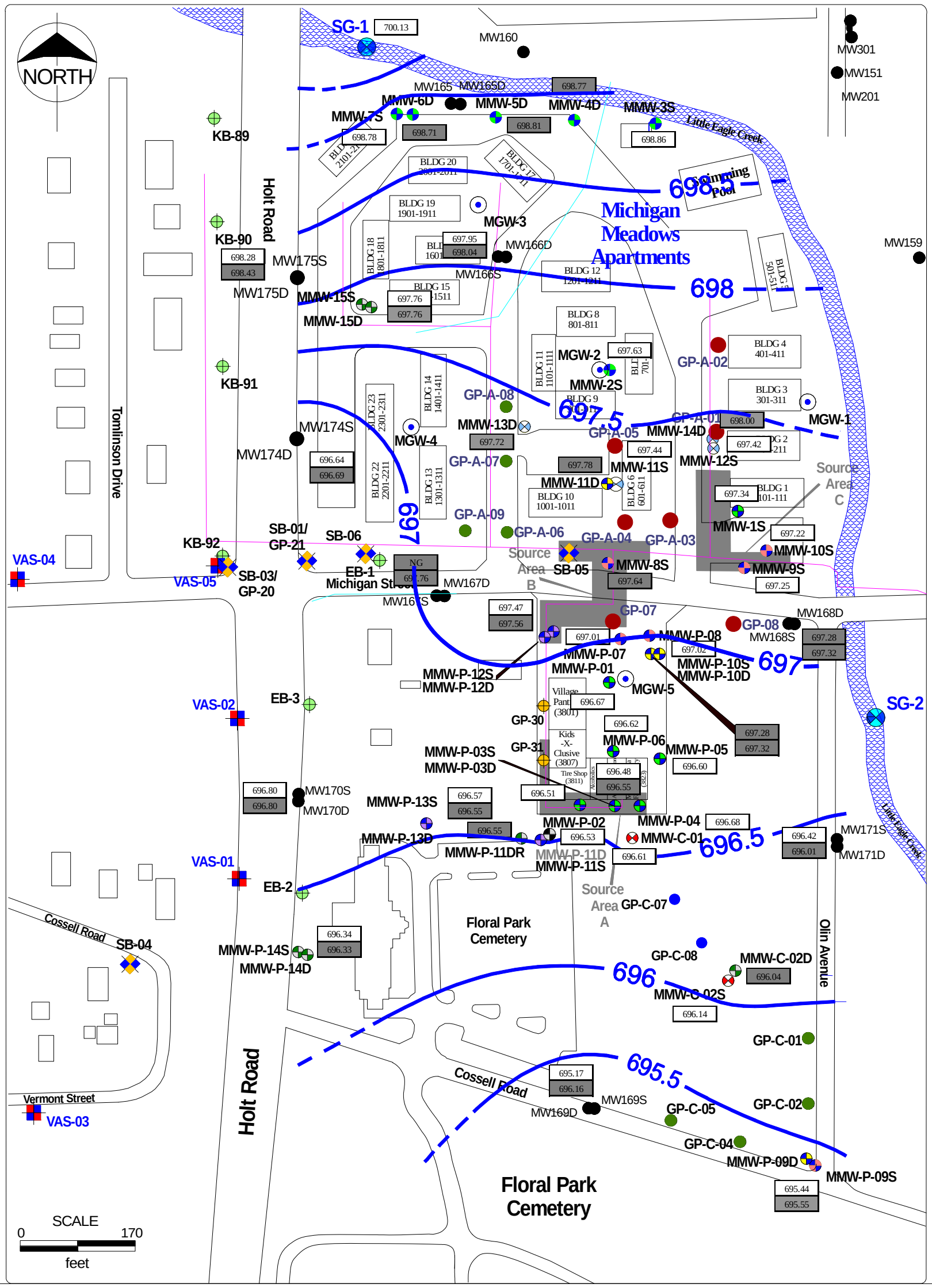
Drawing File:	Basemap 2011
Date Prepared:	3/13/2012
Scale:	1"=200'

VINYL CHLORIDE DISTRIBUTION IN DEEP GROUNDWATER (OCTOBER 2011)

Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, INDIANA

FIGURE
15



LEGEND

	Fence
MW160	Keramida/Environ Monitoring Wells
MMW-P-06	MUNDELL Monitoring Wells, Michigan Plaza (September 2005)
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GP-C-08	MUNDELL Soil Boring Locations (August 2008)
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MGW-1	MUNDELL Soil Gas Well
GP-21	MUNDELL Soil Boring Locations (December 2011)
MMW-P-11D	MUNDELL Monitoring Wells (December 2011)
VAS-01	EPA Vertical Aquifer Sampling Well Locations (November 2011)
SB-01	EPA Soil Boring Locations (November 2011)
698	Potentiometric Surface Equipotential Lines Contour Interval = 0.5 feet
MMW-P-11D	Abandoned Monitoring Well Location
EB-2	Environ Soil Borings
	Sanitary Sewer
	Storm Sewer

Water Level as Measured on January 18, 2012 (gray boxes indicate groundwater elevation values not used for the creation of the Shallow Potentiometric Surface Map)

NG - Not Gauged

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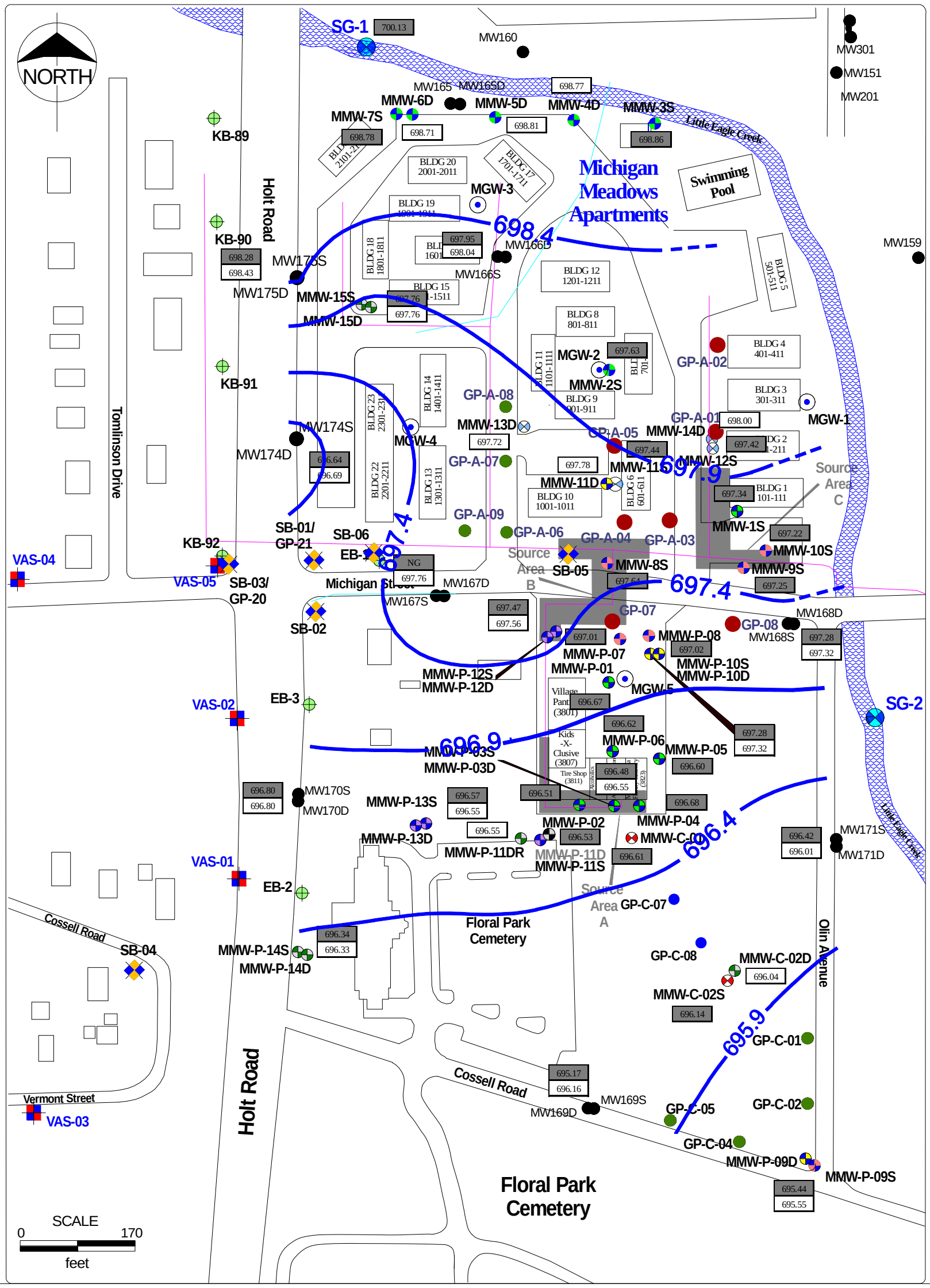
Indianapolis, Indiana 46219-6406
317-630-9060, fax 317-630-9065

Project Number: M01046
Drawing File: GWE_1Q2012
Date Prepared: 2/18/2012
Scale: 1"=170'

Shallow Potentiometric Surface Map January 18, 2012

Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, Indiana

FIGURE
16



LEGEND

	Fence
MW160	Keramida/Environ Monitoring Wells
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MMW-P-11D	MUNDELL Monitoring Wells (December 2011)
VAS-01	EPA Vertical Aquifer Sampling Well Locations (November 2011)
SB-04	EPA Soil Boring Locations (November 2011)
698	Potentiometric Surface Equipotential Lines Contour Interval = 0.5 feet
MMW-P-11D	Abandoned Monitoring Well Location
EB-2	Environ Soil Borings
	Sanitary Sewer
	Storm Sewer

Water Level as Measured on January 18, 2012
(gray boxes indicate groundwater elevation values not used for the creation of the Shallow Potentiometric Surface Map)
NG - Not Gauged

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110 South Downey Avenue
Indianapolis, Indiana 46219-6406
317-630-9060, fax 317-630-9065

Project Number:	M01046
Drawing File:	GWE_1Q2012_DEEP
Date Prepared:	2/24/2012
Scale:	1"=170'

Deep Potentiometric Surface Map
January 18, 2012

Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, Indiana

FIGURE
17

nson Drive

BLDG 22
2201-2211

BLDG 13
1301-1311

BLDG 10
1001-1011

SB-03/
GP-20

SB-01/
GP-21

SB-05

SB-06

VAS-04

VAS-05

Michigan Street

SB-02

SOURCE
AREA
B

Village
Pantry
(3801)

Kids
-X-
Clusive
(3807)

Tire Shop
(3811)

VAS-02

VAS-01

Cossell Road

SB-04

Holt Road

Vermont Street

VAS-03

N

LEGEND

	Fence
MW160	Keramida/Environ Monitoring Wells
MMW-P-06	MUNDELL Monitoring Wells, Michigan Plaza (September 2005)
MMW-P-07	MUNDELL Monitoring Wells (January 2007)
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Project Number:	M01046
Drawing File:	Basemap 2011
Date Prepared:	2/01/12
Scale:	NO SCALE

U.S. EPA SOIL AND GROUNDWATER INVESTIGATION LOCATIONS (NOVEMBER 2011)
Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, INDIANA

FIGURE
18

APPENDIX A

Boring Logs and Monitoring Well Construction Diagrams

Boring/Well ID: GP-20

CLIENT: AIMCO	FIELD SCIENTIST: Sarah Webb, L.P.G.
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 12/7/11
PROJECT NAME: Michigan Meadows Apts	DATE FINISHED: 12/7/11
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Earth Exploration	DRILLING EQUIPMENT: Geoprobe 6620
DRILLER: Sam Barthalow	GW DEPTH (OBSERVED): 18.5 ft
BORING LOCATION: Cemetery	SURFACE ELEVATION: NS

Depth BGS (ft)	USCS Symbol	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID
0		Grass/Topsoil	.50	0.2	50		
1–2	CL	SILTY CLAY with trace sand, brown (10YR 5/3), loose, moist					
3		No Recovery 2.0 - 4.0 ft	4.0	-			
4–5	SW-GW	SAND and GRAVEL, well graded, brown (10YR 5/3), loose, moist		0.3	50		
6–7		No Recovery 6.0 - 8.0 ft		-			
8	SP		8.5				
9		Fine grained SAND with trace gravel, poorly graded, brown (10YR 5/3), loose, moist	9.0	0.3			
10	SW	Fine to coarse grained SAND with trace gravel, well graded, brown (10YR 5/3), loose, moist		0.3	75		
11		No Recovery 11.0 - 12.0 ft		-			
12–13	SW-GW	SAND and GRAVEL, well graded, brown (10YR 5/3) dense, moist	12.0	0.3			
14				0.3	75		
15		No Recovery 15.0 - 16.0 ft		-			
16–17	SW	Fine to medium grained SAND with trace gravel, well graded, brown (10YR 5/3) dense, moist	17.0	0.3		*	Soil Sample: GP-20 16-18'
18		silty clay seam, yellowish red (5YR 5/8), at 17.0 ft	18.5	0.3	75		
19	SW-GW	SAND and GRAVEL, well graded, brown (10YR 5/3), moist, dense		-			
20–21		Wet at 18.5 ft		0.3			
22		No recovery 19.0 -20.0 ft		0.3	75		
23–24		No Recovery 23.0 - 24.0 ft		-			

GP-20

2" Dia. Borehole

REMARKS:
BGS = Below Ground Surface
USCS = Unified Soil Classification System
TPV = Total Photoionizable Vapors
NS = Not Surveyed

Boring/Well ID: GP-20

CLIENT: AIMCO	FIELD SCIENTIST: Sarah Webb, L.P.G.
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 12/7/11
PROJECT NAME: Michigan Meadows Apts	DATE FINISHED: 12/7/11
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Earth Exploration	DRILLING EQUIPMENT: Geoprobe 6620
DRILLER: Sam Barthalow	GW DEPTH (OBSERVED): 18.5 ft
BORING LOCATION: Cemetery	SURFACE ELEVATION: NS

Depth BGS (ft)	USCS Symbol	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID
24	SP-GP	Coarse grained SAND and GRAVEL, poorly graded, brownish gray (10YR 6/2), dense, wet		0.2			
25							
26	SW	Medium to fine grained SAND, well graded, brownish gray (10YR 6/2), dense, wet		0.2	75		
27		coarse sand and gravel seam at 27.0 ft		-			
28		No Recovery 27.0 - 28.0 ft	28.0				
29	SW-GW	SAND and GRAVEL, well graded, brownish gray (10YR 6/2), dense		0.3			Water Sample: GP-20 30'
30					88	*	
31		No Recovery 31.5 - 32.0 ft		0.3			
32			32.0	-			
33	SW	Fine to coarse grained SAND with trace gravel, well graded, brownish gray (10YR 6/2), dense, wet	33.5	0.2			
34	SW-GW	SAND and GRAVEL, well graded, brownish gray (10YR 6/2), dense, wet	34.0		75		
35	SM	Fine to medium grained SILTY SAND with trace gravel, brownish gray (10YR 6/2), dense, wet		0.2			
36		No Recovery 35.0 - 36.0 ft	36.0	-			
37	SW-GW	SAND and GRAVEL, well graded, brownish gray (10YR 6/2), dense, wet		0.2			
38					100		
39				0.2		*	Water Sample: GP-20 39'
40			40.0				
41	CL	SILTY CLAY, gray (2.5Y 5/1), stiff, moist		0.2			
42					100		
43				0.2		*	Soil Sample: GP-20 40-42
44			44.0				
45		End of boring at 44.0 ft					
46							
47							
48							

GP-20

2" Dia. Borehole

REMARKS:
BGS = Below Ground Surface
USCS = Unified Soil Classification System
TPV = Total Photoionizable Vapors
NS = Not Surveyed

Boring/Well ID: GP-21

CLIENT: AIMCO	FIELD SCIENTIST: Sarah Webb, L.P.G.
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 12/7/11
PROJECT NAME: Michigan Meadows Apts	DATE FINISHED: 12/7/11
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Earth Exploration	DRILLING EQUIPMENT: Geoprobe 6620
DRILLER: Sam Barthalow	GW DEPTH (OBSERVED): 21.0 ft
BORING LOCATION: Cemetery	SURFACE ELEVATION: NS

Depth BGS (ft)	USCS Symbol	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID
0		Grass/Topsoil	.50	0.1			
1	CL	SILTY CLAY with gravel, dark brown (10YR 3/3), soft, dry			25		
2		No Recovery 1.0 - 4.0 ft		-			
3							
4	SW	SAND with trace gravel, well graded, brown (10YR 5/3), loose, moist	4.0				
5			5.0	0.2			
6	SW-GW	SAND and GRAVEL, well graded, brown (10YR 5/3), loose, moist			50		
7		No Recovery 6.0 - 8.0 ft		-			
8			8.0				
9	SW-GW	SAND and GRAVEL, well graded, yellowish red (5YR 5/8), dense, moist		0.2			
10					100		
11				0.2			
12	SW	Fine to medium grained SAND with trace gravel, well graded, brown (10YR 5/3), dense, moist	12.0				
13				0.2			
14	SW-GW	SAND and GRAVEL, well graded, yellowish red (5YR 5/8), dense, moist	13.5 14.0		100		
15	SW	Fine to medium grained SAND with trace gravel, well graded, brown (10YR 5/3), moist, dense	15.5	0.2			
16	SW-GW	SAND and GRAVEL, well graded, yellowish red (5YR 5/8), dense, moist					
17				0.2			
18					100		
19				0.2		*	Soil Sample: GP-21 18-20'
20	SM	Fine grained SANDY SILT with trace gravel, grayish brown (10YR 5/2), dense, wet	20.0				
21				0.2			
22		Wet at 21.0 ft			100		
23				0.2			
24							

GP-21

2" Dia. Borehole

REMARKS:
BGS = Below Ground Surface
USCS = Unified Soil Classification System
TPV = Total Photoionizable Vapors
NS = Not Surveyed

Boring/Well ID: GP-21

CLIENT: AIMCO	FIELD SCIENTIST: Sarah Webb, L.P.G.
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 12/7/11
PROJECT NAME: Michigan Meadows Apts	DATE FINISHED: 12/7/11
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Earth Exploration	DRILLING EQUIPMENT: Geoprobe 6620
DRILLER: Sam Barthalow	GW DEPTH (OBSERVED): 21.0 ft
BORING LOCATION: Cemetery	SURFACE ELEVATION: NS

Depth BGS (ft)	USCS Symbol	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID
24–26	SM	Fine grained SANDY SILT, coarsens with depth, grayish brown (10YR 5/2), stiff, wet		0.2	100		
27	SW-GW	SAND and GRAVEL, well graded, brownish gray (10YR 6/2), dense, wet	26.5	0.2			
28	SW	SAND with trace gravel, well graded, grayish brown (10YR 5/2), dense, wet	28.0	0.5		*	Water Sample: GP-21 28'
29–31	GW	GRAVEL, well graded, grayish brown (10YR 5/2), dense, wet No Recovery 30.0 - 32.0 ft	29.0	-	50		
32–35	SW-GW	SAND and GRAVEL, well graded, brownish gray (10YR 6/2), dense, wet No Recovery 35.0 - 36.0 ft	32.0	0.3 0.3 -	75		
36–39	SW	Fine to medium grained SAND with trace gravel, gray (2.5Y 5/1), dense, wet No Recovery 39.0 - 40.0 ft	36.0	0.4 0.3 -	75	*	Water Sample: GP-21 38'
40–43	CL	SILTY CLAY with trace gravel, gray (2.5Y 5/1), stiff, moist	40.0	0.3 0.3	100	*	Soil Sample: GP-21 40-42
44		End of boring at 44.0 ft	44.0				

GP-21

2" Dia. Borehole

REMARKS:
BGS = Below Ground Surface
USCS = Unified Soil Classification System
TPV = Total Photoionizable Vapors
NS = Not Surveyed

Boring/Well ID: GP-22

CLIENT: AIMCO	FIELD SCIENTIST: Sarah Webb, L.P.G.
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 12/8/11
PROJECT NAME: Michigan Meadows Apts	DATE FINISHED: 12/8/11
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Earth Exploration	DRILLING EQUIPMENT: Geoprobe 6620
DRILLER: Sam Barthalow	GW DEPTH (OBSERVED): 21.5 ft
BORING LOCATION: Cemetery	SURFACE ELEVATION: NS

Depth BGS (ft)	USCS Symbol	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID
0		Grass/Topsoil	.50				
1	CL	SILTY CLAY, brown (10YR 5/3), loose, dry		0.1			
2			2.0		100		
3	CL	SILTY CLAY with trace gravel, brown (10YR 5/3), soft, dry		0.1			
4	SW-GW	SAND and GRAVEL, well graded, brown (10YR 5/3), loose, moist	4.0				
5			5.0	0.2			
6	SW	Fine grained SAND with gravel, well graded, brown (10YR 5/3), loose, moist			50		
7		No Recovery 6.0 - 8.0 ft		-			
8			8.0				
9	SW-GW	SAND and GRAVEL, well graded, brown (10YR 5/3) loose, moist		0.1			
10					50		
11		No Recovery 10.0 - 12.0 ft		-			
12	SW	Fine to medium grained SAND with trace gravel, well graded, brown (10YR 5/3), loose, moist	12.0				
13				0.3			
13.5		yellowish red (5YR 5/8) oxidation at 12.5 ft	13.5				
14	SP	Fine grained SAND, poorly graded, brown (10YR 5/3), loose, moist			50		
15		yellowish red (5YR 5/8) oxidation at 14.0 ft		-			
16		No Recovery 14.0 -16.0 ft	16.0				
17	SW-GW	SAND and GRAVEL, well graded, brown (10YR 5/3), dense, moist		0.2			
17.5			17.5				
18	SP	Fine grained SAND, well graded, brownish gray (10YR 6/2), loose, moist			100		
18.5			18.5				Soil Sample:
19	SM	Fine grained SANDY SILT, brownish gray (10YR 6/2), soft, wet		0.2		*	GP-22 18-20'
19.5	SW-GW		19.5				
20		SAND and GRAVEL, well graded, brownish gray	20.0				
	SW	(10YR 6/2), loose, moist		0.1	75		
20.5			20.5				

GP-22

2" Dia. Borehole

REMARKS:
BGS = Below Ground Surface
USCS = Unified Soil Classification System
TPV = Total Photoionizable Vapors
NS = Not Surveyed

Boring/Well ID: GP-22

CLIENT: AIMCO	FIELD SCIENTIST: Sarah Webb, L.P.G.
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 12/8/11
PROJECT NAME: Michigan Meadows Apts	DATE FINISHED: 12/8/11
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Earth Exploration	DRILLING EQUIPMENT: Geoprobe 6620
DRILLER: Sam Barthalow	GW DEPTH (OBSERVED): 21.5 ft
BORING LOCATION: Cemetery	SURFACE ELEVATION: NS

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID
20.5								
21.5	GW		GRAVEL with trace sand, well graded, brownish gray (10YR 6/2), dense, wet		0.1			
22.5			Wet and becomes coarse at 21.5 ft		0.2	75		
23.5			No Recovery 23.0 - 24.0 ft		-		*	Water Sample: GP-22 24'
24.5	ML		SILT, brown (10YR 5/3)		0.3			
25.5					0.3	63		
26.5	SW-GW		SAND and GRAVEL, well graded, brownish gray (10YR 6/2), dense, wet	26.0				
27.5			No Recovery 26.5 - 28.0 ft		-			
28.5	GW		GRAVEL, brownish gray (10YR 6/2), dense, wet	28.0				
29.5	GW		GRAVEL with trace coarse grained sand, well graded, brownish gray (10YR 6/2), dense, wet	28.5	0.3			
30.5					0.2	63		
31.5			No Recovery 30.5 - 32.0 ft		-			
32.5	CL		SILTY CLAY, gray (2.5Y 5/1), stiff, wet	32.0	0.3			
33.5								Water Sample: GP-22 34'
34.5	SP		Fine grained SAND, poorly graded, brownish gray (10YR 6/2), dense, wet	34.0	0.2	100	*	
35.5			well graded gravel seams at 34.0 and 36.0 ft					
36.5	CL		SILTY CLAY with trace gravel, gray (2.5Y 5/1), stiff, moist	36.0	0.2			Soil Sample: GP-22 36- 38'
37.5							*	
38.5					-	88		
39.5			No Recovery 39.5 - 40.0 ft	40.0				
40.5			End Of Boring at 40.0 ft.					

GP-22

2" Dia. Borehole

REMARKS:
BGS = Below Ground Surface
USCS = Unified Soil Classification System
TPV = Total Photoionizable Vapors
NS = Not Surveyed

Boring/Well ID: GP-23

CLIENT: AIMCO	FIELD SCIENTIST: Sarah Webb, L.P.G.
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 12/8/11
PROJECT NAME: Michigan Meadows Apts	DATE FINISHED: 12/8/11
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Earth Exploration	DRILLING EQUIPMENT: Geoprobe 6620
DRILLER: Sam Barthalow	GW DEPTH (OBSERVED): 20.5 ft
BORING LOCATION: Cemetery	SURFACE ELEVATION: NS

Depth BGS (ft)	USCS Symbol	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID
0		Grass/Topsoil	.50				
1	CL	SILTY CLAY with trace gravel, brown (10YR 5/3), soft, moist		0.3	50		
2							
3		No Recovery 2.0 - 4.0 ft		-			
4			4.0				
5	SW-GW	SAND and GRAVEL, well graded, brown (10YR 5/3), loose, moist		0.4	75		
6				0.6			
7		No Recovery 7.0 - 8.0 ft		-			
8				0.4			
9							
10				0.3	75		
11		No Recovery 11.0 - 12.0 ft		-			
12							
13				0.4			
14		yellowish red (5YR 5/9) oxidation at 14.0 ft			75		
15				0.5			
16		No Recovery 15.0 - 16.0 ft		-			
17	SW-GW	SAND and GRAVEL, well graded, brownish gray (10YR 6/2), loose, moist	16.0	0.1			
18		silty clay seam at 17.0 ft			75	*	Soil Sample: GP-23 17-19
19				0.3			
20		No Recovery 19.0 to 20.0 ft		-			
21	SW	SAND, well graded, brownish gray (10YR 6/2), loose, wet	20.0	0.1	75		
22	SW	wet at 20.5 ft	21.5				

GP-23

2" Dia. Borehole

REMARKS:
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Boring/Well ID: GP-23

CLIENT: AIMCO	FIELD SCIENTIST: Sarah Webb, L.P.G.
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 12/8/11
PROJECT NAME: Michigan Meadows Apts	DATE FINISHED: 12/8/11
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Earth Exploration	DRILLING EQUIPMENT: Geoprobe 6620
DRILLER: Sam Barthalow	GW DEPTH (OBSERVED): 20.5 ft
BORING LOCATION: Cemetery	SURFACE ELEVATION: NS

Depth BGS (ft)	USCS Symbol	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID
22							
23	SW	No Recovery 23.0 - 24.0 ft		0.2 -	75		
24			24.0				
25	GW	GRAVEL with coarse grained sand, well graded, brownish gray (10YR 6/2), dense, wet		0.1			
26		yellowish red (5YR 5/8) silt seam at 26.0 ft			75		
27		No Recovery 27.0 - 28.0 ft		0.2 -		*	Water Sample: GP-23 27'
28	SW		28.0				
29		Medium to coarse grained SAND with trace gravel, yellowish red (5YR 5/8), dense, wet	28.5	0.2			
30	GW	GRAVEL with trace sand, well graded, yellowish red (5YR 5/8), dense, wet		0.2	63		
31		cobble seam from 29.5 - 30.5 ft		-			
32		No Recovery 30.5 - 32.0 ft	32.0				
33	GW	GRAVEL, well graded, yellowish red (5YR 5/8), dense, wet		0.1			
34			34.0		100		
35	SW-GW	SAND and GRAVEL, well graded, brownish gray (10YR 6/2), dense, wet		0.1			
36			36.0				
37	SW-GW	SAND and GRAVEL, well graded, gray (2.5Y 5/1), dense, wet		0.1		*	Water Sample: GP-23 37'
38			38.5		88		
39	CL	SILTY CLAY with trace gravel, gray (2.5Y 5/1), stiff, moist		0.1		*	Soil Sample: GP-23 39-40'
40		No Recovery 39.5 - 40.0 ft	40.0				
41		End Of Boring at 40.0 ft					
42							
43							
44							

GP-23

2" Dia. Borehole

REMARKS:
BGS = Below Ground Surface
USCS = Unified Soil Classification System
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NS = Not Surveyed

Boring/Well ID: GP-24

CLIENT: AIMCO	FIELD SCIENTIST: Sarah Webb, L.P.G.
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 12/12/11
PROJECT NAME: Michigan Meadows Apts	DATE FINISHED: 12/12/11
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Earth Exploration	DRILLING EQUIPMENT: Geoprobe 6620
DRILLER: Sam Barthalow	GW DEPTH (OBSERVED): 22.0 ft
BORING LOCATION: Cemetery	SURFACE ELEVATION: NS

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID	GP-24
0			Grass/Topsoil	.50					
1	CL		SILTY CLAY with trace gravel, brown (10YR 5/3), soft, moist		1.3	50			
2									
3			No Recovery 2.0 - 4.0 ft		-				
4	SW-GW		SAND and GRAVEL, well graded, brown (10YR 5/3), loose, moist	4.0	1.1	50			
5									
6									
7			No Recovery 6.0 - 8.0 ft		-				
8	SW		Fine to medium grained SAND, well graded, brown (10YR 5/3), loose, moist	8.0	1.0	75			
9									
10	SW-GW		SAND and GRAVEL, well graded, brown (10YR 5/3), loose, moist,	10.0	1.0				2" Dia. Borehole
11			yellowish red (5YR 5/8) oxidation at 11.0 ft		-				
12			No Recovery 11.0 - 12.0 ft		1.0	75			
13									
14					1.0				
15			No Recovery 15.0 - 16.0 ft		-				
16									
17					0.9				
18	CL		SILTY CLAY with trace sand, brownish gray (10YR 6/2), soft, moist	17.5 18.0		75	*	Soil Sample: GP-24 17-19'	
19	SW-GW		SAND and GRAVEL, well graded, brownish gray (10YR 6/2), loose, moist		0.7				
20					-				

REMARKS:
BGS = Below Ground Surface
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NS = Not Surveyed

Boring/Well ID: GP-24

CLIENT: AIMCO	FIELD SCIENTIST: Sarah Webb, L.P.G.
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 12/12/11
PROJECT NAME: Michigan Meadows Apts	DATE FINISHED: 12/12/11
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Earth Exploration	DRILLING EQUIPMENT: Geoprobe 6620
DRILLER: Sam Barthalow	GW DEPTH (OBSERVED): 22.0 ft
BORING LOCATION: Cemetery	SURFACE ELEVATION: NS

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID	GP-24
20									
21	SW		Fine to medium grained SAND, well graded, brownish gray (10YR 6/2), loose, moist		0.8				
22				22.0		100			▼
23			SAND and GRAVEL, brownish gray (10YR 6/2) loose, wet wet at 22.0 ft		0.9				
24									
25					0.8				
26						88			
27					0.8				
28			No Recovery 27.5 - 28.0 ft		-		*	Water Sample: GP-24 28'	
29					0.9				
30						75			2" Dia. Borehole
31	SW-GW				0.9				
32			No Recovery 31.0 - 32.0 ft		-				
33					0.7				
34						100			
35					1.0				
36			SAND and GRAVEL, coarsens with depth, 36.0 - 40.0 ft						
37					0.9				
38						100	*	Water Sample: GP-24 38'	
39					1.0				
40									

REMARKS:
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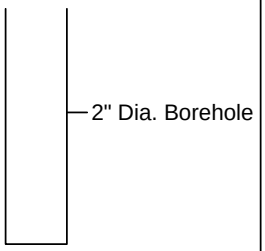
TPV = Total Photoionizable Vapors
NS = Not Surveyed

Boring/Well ID: GP-24

CLIENT: AIMCO	FIELD SCIENTIST: Sarah Webb, L.P.G.
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 12/12/11
PROJECT NAME: Michigan Meadows Apts	DATE FINISHED: 12/12/11
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Earth Exploration	DRILLING EQUIPMENT: Geoprobe 6620
DRILLER: Sam Barthalow	GW DEPTH (OBSERVED): 22.0 ft
BORING LOCATION: Cemetery	SURFACE ELEVATION: NS

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID
40								
41			SAND and GRAVEL, well graded, brownish gray (10YR 6/2), dense, wet		0.4			
42	SW-GW					100		
43					0.4			
44			Sand heave refusal at 44.0 ft	44.0				
45			End Of Boring at 44.0 ft					
46						0		
47			Pushed to 48.0 ft to collect a water sample from the deep saturated zone					Water Sample: GP-24 48'
48				48.0			*	
49								
50								
51								
52								
53								
54								
55								
56								
57								
58								
59								
60								

GP-24



REMARKS:
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NS = Not Surveyed

Boring/Well ID: GP-25

CLIENT: AIMCO	FIELD SCIENTIST: Sarah Webb, L.P.G.
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 12/9/11
PROJECT NAME: Michigan Meadows Apts	DATE FINISHED: 12/9/11
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Earth Exploration	DRILLING EQUIPMENT: Geoprobe 6620
DRILLER: Sam Barthalow	GW DEPTH (OBSERVED): 20.0 ft
BORING LOCATION: Cemetery	SURFACE ELEVATION: NS

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID
0			Grass/Topsoil	.50				
1	CL		SILTY CLAY with trace gravel, brown (10YR 5/3), soft, moist		0.1	50		
2								
3			No Recovery 2.0 - 4.0 ft		-			
4	SW-GW		SAND and GRAVEL, well graded, brown (10YR 5/3), loose, moist	4.0	0.1	25		
5								
6			No Recovery 5.0 - 8.0 ft		-			
7								
8			Fine to medium grained sand seam at 8.0 ft		0.2	25		
9								
10			No Recovery 9.0 - 12.0 ft		-			
11								
12								
13			yellowish red (5YR 5/8) oxidation from 12.0 - 14.0 ft		0.2	100		
14	ML		SILT with trace gravel, brownish gray (10YR 6/2), soft, moist		0.2			
15								
16								
17					0.1			
18	SW-GW		SAND and GRAVEL, well graded, brownish gray (10YR 6/2), loose, moist	17.5		100		
19			Yellowish red (5YR 5/8) oxidation from 17.5 - 20.0 ft		0.2		*	Soil Sample: GP-25 18-20'
20			silty, wet at 20.0 - 20.5 ft					

GP-25

2" Dia. Borehole

REMARKS:
BGS = Below Ground Surface
USCS = Unified Soil Classification System
TPV = Total Photoionizable Vapors
NS = Not Surveyed

Boring/Well ID: GP-25

CLIENT: AIMCO	FIELD SCIENTIST: Sarah Webb, L.P.G.
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 12/9/11
PROJECT NAME: Michigan Meadows Apts	DATE FINISHED: 12/9/11
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Earth Exploration	DRILLING EQUIPMENT: Geoprobe 6620
DRILLER: Sam Barthalow	GW DEPTH (OBSERVED): 20.0 ft
BORING LOCATION: Cemetery	SURFACE ELEVATION: NS

Depth BGS (ft)	USCS Symbol	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID
20–25	SW-GW	No Recovery 22.5 - 24.0 ft		0.3 0.3 - 0.2	63		
25–28	SM	Fine grained SILTY SAND with some gravel, brownish gray (10YR 6/2), dense, wet No Recovery 26.0 - 28.0 ft	25.5	0.2 -	50		Water Sample: GP-25 28'
28–32	SW-GW	SAND and GRAVEL, well graded, brownish gray (10YR 6/2), wet SILTY SAND, brown (10YR 5/3) 29.0 - 29.5 ft Coarse grained SAND and GRAVEL, well graded, brownish gray (10YR 6/2), coarse gravel seam at 29.5 ft	28.0	0.2 0.2	100	*	
32–38		Sand heave refusal at 32.0 ft End Of Boring at 32.0 ft. Pushed to 38.0' to collect a water sample from the deep saturated zone	32.0 38.0		0	*	Water Sample: GP-25 38'

GP-25

2" Dia. Borehole

REMARKS:
BGS = Below Ground Surface
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TPV = Total Photoionizable Vapors
NS = Not Surveyed

Boring/Well ID: GP-26

CLIENT: AIMCO	FIELD SCIENTIST: Sarah Webb, L.P.G.
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 12/9/11
PROJECT NAME: Michigan Meadows Apts	DATE FINISHED: 12/9/11
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Earth Exploration	DRILLING EQUIPMENT: Geoprobe 6620
DRILLER: Sam Barthalow	GW DEPTH (OBSERVED): 20.0 ft
BORING LOCATION: Cemetery	SURFACE ELEVATION: NS

Depth BGS (ft)	USCS Symbol	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID
0		Grass/Topsoil	.50				
1	CL	SILTY CLAY with trace gravel, brown (10YR 5/3), soft, moist		0.1	50		
2							
3		No Recovery 2.0 - 4.0 ft		-			
4	SW-GW	SAND and GRAVEL, well graded, brown (10YR 5/3), dense, moist	4.0				
5	SW	Fine to medium grained SAND, brown (10YR 5/3), dense, moist	5.0	0.1			
6	SW-GW	SAND and GRAVEL, well graded, brown (10YR 5/3), dense, moist	6.0		100		
7				0.1			
8	CL	SILTY CLAY with some gravel, brown (10YR 5/3), stiff, moist	8.0				
9		fine sand seam at 9.0 ft		0.1			
10		yellowish red (5YR 5/8) oxidation at 9.0, 10.0, and 11.0 ft			100		
11				0.1			
12		Color change to brownish gray (10YR 6/2) at 12.0 ft	12.0				
13	SW-GW	SAND and GRAVEL, well graded, brown (10YR 5/3), loose, moist		0.1			
14					75		
15		No Recovery 15.0 - 16.0 ft		0.1			
16	SW	Fine to medium grained SAND with trace gravel, well graded, brown (10YR 5/3), dense, moist	16.0	-			
17	SW-GW	SAND and GRAVEL, well graded, brown (10YR 5/3), dense, moist	17.0	0.1			
18					100		
19				0.2		*	Soil Sample: GP-26 18-20'
20		Wet at 20.0 ft					

GP-26

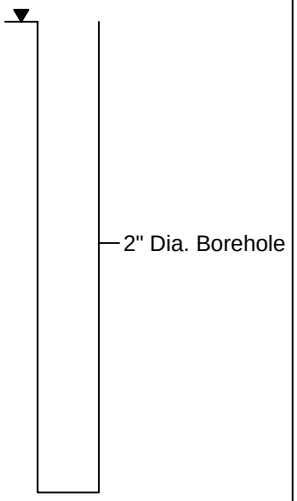
2" Dia. Borehole

REMARKS:
BGS = Below Ground Surface
USCS = Unified Soil Classification System
TPV = Total Photoionizable Vapors
NS = Not Surveyed

Boring/Well ID: GP-26

CLIENT: AIMCO	FIELD SCIENTIST: Sarah Webb, L.P.G.
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 12/9/11
PROJECT NAME: Michigan Meadows Apts	DATE FINISHED: 12/9/11
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Earth Exploration	DRILLING EQUIPMENT: Geoprobe 6620
DRILLER: Sam Barthalow	GW DEPTH (OBSERVED): 20.0 ft
BORING LOCATION: Cemetery	SURFACE ELEVATION: NS

Depth BGS (ft)	USCS Symbol	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID
20–24	SW-GW	Color change to brownish gray (10YR 6/2) from 20.0 - 23.0 ft No Recovery 23.0 - 24.0 ft		0.2 0.2 -	75		
24–27	CL	SILTY CLAY with trace gravel, gray (2.5Y 5/1), stiff, moist	24.0	0.1	100	*	Water Sample: GP-26 25'
27–28	SM	Fine grained SILTY SAND, poorly graded, brownish gray (10YR 6/2), dense, wet	27.0	0.0			
28–32		Sand heave refusal at 28.0 ft SILTY SAND, gray (2.5Y 5/1), very dense, moist, in shoe End of Boring at 28.0 ft. Pushed to 32.0 ft to collect a water sample from the deep saturated zone	28.0 32.0	0.1	0	*	Water Sample: GP-26 32'



REMARKS:
BGS = Below Ground Surface
USCS = Unified Soil Classification System
TPV = Total Photoionizable Vapors
NS = Not Surveyed

Boring/Well ID: GP-27

CLIENT: AIMCO	FIELD SCIENTIST: Sarah Webb, L.P.G.
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 12/8/11
PROJECT NAME: Michigan Meadows Apts	DATE FINISHED: 12/9/11
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Earth Exploration	DRILLING EQUIPMENT: Geoprobe 6620
DRILLER: Sam Barthalow	GW DEPTH (OBSERVED): 19.5 ft
BORING LOCATION: Cemetery	SURFACE ELEVATION: NS

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID
0			Grass/Topsoil	.50				
1	SW-GW		SAND and GRAVEL, well graded, brown (10YR 5/3), loose, moist		0.0			
2				2.0		75		
	CL		SILTY CLAY, brown (10YR 5/3), soft, moist		0.0			
3			No Recovery 3.0 - 4.0 ft		-			
4	SW		Fine grained SAND with trace gravel, well graded, brown (10YR 5/3), loose, moist	4.0				
5				5.0	0.1			
	SW-GW		SAND and GRAVEL, well graded, brown (10YR 5/3), loose, moist			50		
6								
7			No Recovery 6.0 - 8.0 ft		-			
8								
9					0.1			
10						75		
					0.1			
11			No Recovery 11.0 - 12.0 ft		-			
12								
13					0.1			
	ML		SILT with some gravel, well graded, brown (10YR 5/3), stiff, moist	13.5		88		
14			Color change to gray (2.5Y 5/1) 14.5 - 15.5 ft		0.1			
15								

GP-27

2" Dia. Borehole

REMARKS:
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NS = Not Surveyed

Boring/Well ID: GP-27

CLIENT: AIMCO	FIELD SCIENTIST: Sarah Webb, L.P.G.
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 12/8/11
PROJECT NAME: Michigan Meadows Apts	DATE FINISHED: 12/9/11
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Earth Exploration	DRILLING EQUIPMENT: Geoprobe 6620
DRILLER: Sam Barthalow	GW DEPTH (OBSERVED): 19.5 ft
BORING LOCATION: Cemetery	SURFACE ELEVATION: NS

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID	GP-27
15	ML		No Recovery from 15.5 - 16.0 ft	15.5	0.1 -	88			
16	SW		Medium grained SAND with some gravel, well graded, brownish gray (10YR 6/2), dense, moist	16.0	0.1				
17									
18						100		Soil Sample:	
19					0.1		*	GP-27 17-19'	
20	SW-GW		SAND and GRAVEL, well graded, brownish gray (10YR 6/2), dense Wet at 19.5 ft	19.5	0.1				2" Dia. Borehole
21									
22						100			
23					0.1				
24	SW-GW		Medium grained SAND and GRAVEL, brown (10YR 5/3), dense, moist	24.0	0.1			Water Sample:	
25									
26	SW-GW		SAND and GRAVEL, well graded, brown (10YR 5/3), dense, moist	26.0		100	*	GP-27 26'	
27					0.1				
28	SM		SILT with gravel, gray (2.5Y 5/1), stiff, moist	28.0					
29					0.4	75			
30			Well graded SAND and GRAVEL seam at 30.0 ft						

REMARKS:
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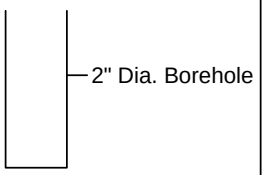
Boring/Well ID: GP-27

CLIENT: AIMCO	FIELD SCIENTIST: Sarah Webb, L.P.G.
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 12/8/11
PROJECT NAME: Michigan Meadows Apts	DATE FINISHED: 12/9/11
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Earth Exploration	DRILLING EQUIPMENT: Geoprobe 6620
DRILLER: Sam Barthalow	GW DEPTH (OBSERVED): 19.5 ft
BORING LOCATION: Cemetery	SURFACE ELEVATION: NS

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID
30								
31	SM		No Recovery 31.0 - 32.0 ft	32.0	0.1 -	75		
32			Refusal at 32.0 ft, dense gravel in shoe. End of Boring at 32.0 ft					
33			Offset 5.0 ft and attempted to advance beyond 32 ft. Encountered refusal at 16.0 ft.					
34						0		
35			Pushed to 36.0 ft to collect a water sample from the deep saturated zone					Water Sample:
36							*	GP-27 36'
37								
38								
39								
40								
41								
42								
43								
44								
45								

GP-27



REMARKS:
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TPV = Total Photoionizable Vapors
NS = Not Surveyed

Boring/Well ID: GP-28

CLIENT: AIMCO	FIELD SCIENTIST: Sarah Webb, L.P.G.
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 12/9/11
PROJECT NAME: Michigan Meadows Apts	DATE FINISHED: 12/9/11
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Earth Exploration	DRILLING EQUIPMENT: Geoprobe 6620
DRILLER: Sam Barthalow	GW DEPTH (OBSERVED): 20.0 ft
BORING LOCATION: Cemetery	SURFACE ELEVATION: NS

Depth BGS (ft)	USCS Symbol	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID
0		Grass/Topsoil	.50				
1	CL	SILTY CLAY with some sand and gravel, brown (10YR 5/3), soft, moist	1.5	0.9	75		
2							
3	SW-GW	No Recovery 3.0 - 4.0 ft SAND and GRAVEL, well graded, brown (10YR 5/3), loose, moist		-			
4			4.5				
5	SW	No Recovery 2.0 - 4.0 ft		0.8			
6		Medium to coarse grained SAND with trace gravel, well graded, brown (10YR 5/3), loose, moist	5.5		75		
7		yellowish red (5YR 5/8) oxidation from 4.5 -5.5 ft		1.0			
8	SW-GW	SAND and GRAVEL, well graded, brown (10YR 5/3), loose, moist No Recovery 7.0 - 8.0 ft		-			
9				0.9			
10					75		
11	SW	Fine to medium grained SAND with some gravel, well graded, brown (10YR 5/3), loose, moist	10.5	0.9			
12		yellowish red (5YR 5/8) oxidation from 10.5 - 11.0 ft	12.0	-			
13	SW-GW	No Recovery 11.0 - 12.0 ft SAND and GRAVEL, well graded, brown (10YR 5/3), loose, moist		0.7			
14			14.0		75		
15	SW	SAND with trace gravel, well graded, brown (10YR 5/3), dense, moist		0.8			
16		No Recovery 15.0 - 16.0 ft yellowish red (5YR 5/8) oxidation from 16.0 - 18.0 ft		-			
17				0.7			
18	SW-GW	Medium to coarse grained SAND and GRAVEL, well graded, brownish gray (2.5Y 5/1), moist	18.0	0.6	100	*	Soil Sample: GP-28 17-19'
19							
20				-			

GP-28

2" Dia. Borehole

REMARKS:
BGS = Below Ground Surface
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NS = Not Surveyed

Boring/Well ID: GP-28

CLIENT: AIMCO	FIELD SCIENTIST: Sarah Webb, L.P.G.
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 12/9/11
PROJECT NAME: Michigan Meadows Apts	DATE FINISHED: 12/9/11
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Earth Exploration	DRILLING EQUIPMENT: Geoprobe 6620
DRILLER: Sam Barthalow	GW DEPTH (OBSERVED): 20.0 ft
BORING LOCATION: Cemetery	SURFACE ELEVATION: NS
	SHEET 2 OF 2

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID
20	SW-GW		SAND and GRAVEL, well graded, gray (2.5Y 5/1), dense, wet					
21	SW-GW		Wet at 20.0 ft	21.0	0.6			
22	SW-GW		Medium to coarse grained SAND and GRAVEL, gray (2.5Y 5/1), dense, wet	22.0	0.7	75		
23	SW-GW		SAND and GRAVEL, well graded, gray (2.5Y 5/1), dense, wet		-			
24	GW		No Recovery 23.0 - 24.0 ft	24.0				
25	GW		GRAVEL, well graded, gray (2.5Y 5/1), dense, wet		0.4			
26	CL		SILTY CLAY with some gravel, brownish gray (10YR 6/2), stiff, moist	25.5		100		
27	SM-GM		SILTY SAND and GRAVEL, brownish gray (10YR 6/2), dense, wet	26.5	0.8			Water Sample: GP-28 28'
28	SM-GM							
29	SM-GM				0.8			
30	SM-GM					50		
31	SM-GM		No Recovery 30.0 - 32.0 ft		-			
32	SM-GM		Silty SAND and GRAVEL, gray (2.5Y 5/1), dense, wet	32.0				
33	SM-GM				0.9			
34	SM-GM					100		
35	SW		Fine to coarse grained SAND, gray (2.5Y 5/1), very dense, wet	35.0	0.9			
36			Sand heave refusal at 36.0 ft End of Boring at 36.0 ft	36.0				
37						0		
38			Pushed to 38.5 ft to collect a water sample from the deep saturated zone				*	Water Sample: GP-28 38.5'
39								
40								

GP-28

2" Dia. Borehole

REMARKS:
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NS = Not Surveyed

Boring/Well ID: GP-29

CLIENT: AIMCO	FIELD SCIENTIST: Sarah Webb, L.P.G.
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 12/14/11
PROJECT NAME: Michigan Meadows Apts	DATE FINISHED: 12/14/11
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Earth Exploration	DRILLING EQUIPMENT: Geoprobe 6620
DRILLER: Sam Barthalow	GW DEPTH (OBSERVED): 18.0 ft
BORING LOCATION: Cemetery	SURFACE ELEVATION: NS

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID	GP-29
0			Grass/Topsoil	.50					
1	CL		SILTY CLAY with trace gravel, brown (10YR 5/3), soft, moist	1.0	0.2				
2			SAND and GRAVEL, well graded, brown (10YR 5/3), loose, moist			50			
3			No Recovery 2.0 - 4.0 ft		-				
4									
5					0.3				
6			yellowish red (5YR 5/8) oxidation from 4.0 - 7.0 ft			75			
7	SW-GW				0.2				
8			No Recovery 7.0 - 8.0 ft		-				
9			Fine to medium grained sand seam at 9.0 ft		0.2				
10			gray (2.5Y 5/1), at 9.5 ft			50			2" Dia. Borehole
11			No Recovery 10.0 - 12.0 ft		-				
12					0.2				
13				13.5					
14			Fine to medium grained SAND, well graded, brownish gray (10YR 6/2), loose, moist		-	63			
15			No Recovery 14.5 - 16.0 ft		0.1				
16							*	Soil Sample: GP-29 16-18'	
17	SW				0.1				
18			Wet at 18.0 ft			88			
19					0.1				
20			No Recovery 19.5 - 20.0 ft		-				

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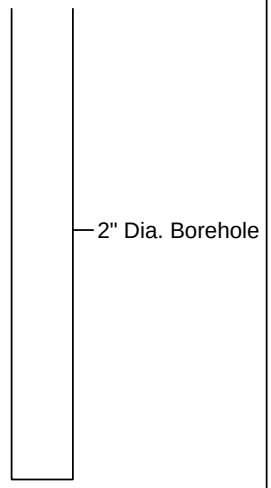
Boring/Well ID: GP-29

CLIENT: AIMCO	FIELD SCIENTIST: Sarah Webb, L.P.G.
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 12/14/11
PROJECT NAME: Michigan Meadows Apts	DATE FINISHED: 12/14/11
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Earth Exploration	DRILLING EQUIPMENT: Geoprobe 6620
DRILLER: Sam Barthalow	GW DEPTH (OBSERVED): 18.0 ft
BORING LOCATION: Cemetery	SURFACE ELEVATION: NS

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID
20								
21	SW				0.1			
22						100		
23			SAND and GRAVEL, well graded, brownish gray (10YR 6/2), loose, wet	23.0	0.1			
24	SW-GW							
25					0.1			
26			Fine to medium grained SAND with trace gravel, brownish gray (10YR 6/2), dense, wet	25.5		100		
27	SW				0.1			
28			Sand heave refusal at 28.0 ft End of Boring at 28.0 ft	28.0				
29						0		Water Sample: GP-29 30'
30			Pushed to 30.0 ft to collect a water sample from the intermediate saturated zone	30			*	
31								
32								
33								
34								
35						0		
36								
37								
38								
39			Pushed to 40.0 ft to collect a water sample from the deep saturated zone					Water Sample: GP-29 40'
40							*	



REMARKS:
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TPV = Total Photoionizable Vapors
NS = Not Surveyed

Boring/Well ID: GP-30

CLIENT: AIMCO	FIELD SCIENTIST: Sarah Webb, L.P.G.
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 12/13/11
PROJECT NAME: Michigan Meadows Apts	DATE FINISHED: 12/13/11
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Earth Exploration	DRILLING EQUIPMENT: Geoprobe 6620
DRILLER: Sam Barthalow	GW DEPTH (OBSERVED): 18.5 ft
BORING LOCATION: Cemetery	SURFACE ELEVATION: NS

Depth BGS (ft)	USCS Symbol	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID
0		Grass/Topsoil	.50				
1	CL	SILTY CLAY with trace sand, brown (10YR 5/3), loose, moist		0.2	100		
2		Hand augered to 5.0 ft					
3				0.2			
4							
5	SW-GW	SAND and GRAVEL, well graded, brown (10YR 5/3), loose, moist	5.0	0.3	100		
6							
7		yellowish red (5YR 5/8) oxidation from 5.0 - 10.5 ft		0.4			
8				0.4			
9							
10				0.4	63		
11		No Recovery 10.5 - 12.0 ft		-			
12	SW	SAND with trace gravel, well graded, brown (10YR 5/3), dense, moist	12.0				
13	SW-GW	SAND and GRAVEL, well graded, brown (10YR 5/3), dense, moist	13.0	0.5	100		
14		yellowish red (5YR 5/8) oxidation from 13.0 -16.0 ft					
15		Fine to medium grained SAND seam with trace gravel		1.4			Soil Sample:
16	SW-GW	SAND and GRAVEL, well graded, brownish gray (10YR 6/2), loose, moist	16.0	0.6		*	GP30 16-18'
17			17.5				
18	SW	Fine to medium grained SAND, well graded, brownish gray (10YR 6/2), loose, moist			88		
19		Wet at 18.5 ft		0.3			
20		No Recovery 19.5 - 20.0 ft		-			

GP-30

2" Dia. Borehole

REMARKS:
BGS = Below Ground Surface
USCS = Unified Soil Classification System
TPV = Total Photoionizable Vapors
NS = Not Surveyed

Boring/Well ID: GP-30

CLIENT: AIMCO	FIELD SCIENTIST: Sarah Webb, L.P.G.
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 12/13/11
PROJECT NAME: Michigan Meadows Apts	DATE FINISHED: 12/13/11
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Earth Exploration	DRILLING EQUIPMENT: Geoprobe 6620
DRILLER: Sam Barthalow	GW DEPTH (OBSERVED): 18.5 ft
BORING LOCATION: Cemetery	SURFACE ELEVATION: NS

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID	GP-30
20									
21			SAND and GRAVEL, well graded, brownish gray (10YR 6/2), loose, wet		1.2				
22			Becomes finer grained with depth to 22.5 ft		2.2	63			
23			No Recovery 22.5 -24.0 ft		-				
24			No longer becoming finer grained with depth		2.4			Water Sample: GP-30 25'	
25							*		
26					1.4	50			
27			No Recovery 26.0 - 28.0 ft		-				
28	SW-GW								2" Dia. Borehole
29					1.5				
30						25			
31			No Recovery 29.0 - 32.0 ft		-				
32									
33					2.5				
34						88			
35				35.0	2.0		*	Water Sample: GP-30 35'	
36	CL		SILTY CLAY with trace sand, gray (2.5Y 5/1), very stiff	36.0	-		*	Soil Sample: GP-30 34-35.5'	
37			No Recovery 35.5 -36.0 ft End of Boring at 36.0 ft						
38									
39									
40									

REMARKS:
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TPV = Total Photoionizable Vapors
NS = Not Surveyed

Boring/Well ID: GP-31

CLIENT: AIMCO	FIELD SCIENTIST: Sarah Webb, L.P.G.
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 12/13/11
PROJECT NAME: Michigan Meadows Apts	DATE FINISHED: 12/13/11
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Earth Exploration	DRILLING EQUIPMENT: Geoprobe 6620
DRILLER: Sam Barthalow	GW DEPTH (OBSERVED): 18.5 ft
BORING LOCATION: Cemetery	SURFACE ELEVATION: NS

Depth BGS (ft)	USCS Symbol	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID
0		Grass/Topsoil	.50				
1	CL	SILTY CLAY with trace sand, brown (10YR 5/3), loose, moist		0.2	100		
2		Hand augered to 5.0 ft					
3				0.2			
4							
5				0.3	75		
6			6.0				
7	SW-GW	SAND and GRAVEL, well graded, brown (10YR 5/3), loose, moist		-			
8		yellowish red (5YR 5/8) oxidation from 6.0 - 7.5 ft		0.4			
9		No recovery 7.0 - 8.0 ft					
10	SW-GW	SAND and GRAVEL, well graded, brown (10YR 5/3), loose, moist	9.5	0.4	63		
11		No Recovery 10.5 - 12.0 ft		-			
12	SW-GW	SAND and GRAVEL, well graded, brown (10YR 5/3), dense, moist	12.0	0.5			
13		yellowish red (5YR 5/8) oxidation from 12.0 - 14.5 ft		0.7	63		
14							
15		No Recovery 14.5- 16.0 ft		-			Soil Sample:
16	SW	SAND, well graded, brown (10YR 5/3), loose, moist	16.0			*	GP-31 16-17.5'
17		silty sand seam at 16.5 ft		2.1			
18	SW	SAND, well graded, brown (10YR 5/3), dense, wet	17.5		75		
19		Wet at 18.5 ft		1.1			
20		No Recovery 19.0 - 20.0 ft		-			

GP-31

2" Dia. Borehole

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TPV = Total Photoionizable Vapors
NS = Not Surveyed

Boring/Well ID: GP-31

CLIENT: AIMCO	FIELD SCIENTIST: Sarah Webb, L.P.G.
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 12/13/11
PROJECT NAME: Michigan Meadows Apts	DATE FINISHED: 12/13/11
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Earth Exploration	DRILLING EQUIPMENT: Geoprobe 6620
DRILLER: Sam Barthalow	GW DEPTH (OBSERVED): 18.5 ft
BORING LOCATION: Cemetery	SURFACE ELEVATION: NS

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID
20–32	SW-GW		SAND and GRAVEL, well graded, brownish gray (10YR 6/2), loose, wet Well graded sand seam at 21.5 ft No Recovery 23.0 -24.0 ft No recovery 27.5 - 28.0 ft		4.1 2.2 - 1.5 1.4 - 0.4 0.5	75 88 100	*	Water Sample: GP-31 26'
32			End of Boring at 32.0 ft due to lost geoprobe tooling	32.0		0		
35			Pushed to 36.0 ft to collect a water sample from the deep saturated zone				*	Water Sample: GP-31 36'

GP-31

2" Dia. Borehole

REMARKS:
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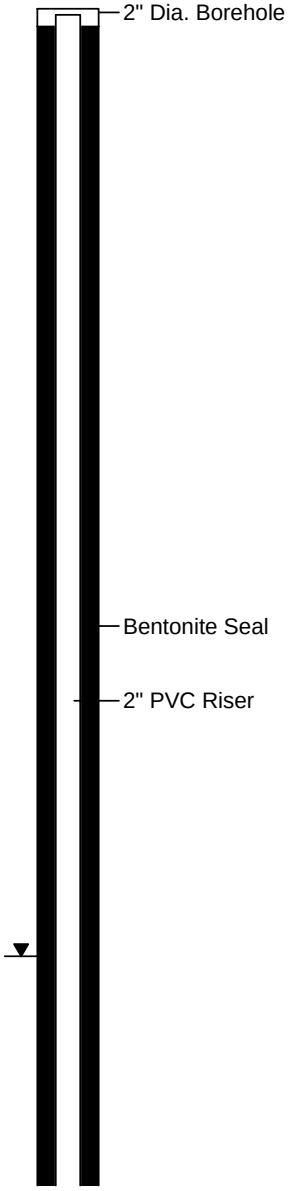
Boring/Well ID: MMW-15D

CLIENT: AIMCO	FIELD SCIENTIST: Pilar Cuadra
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 12/15/11
PROJECT NAME: Michigan Meadows Apts	DATE FINISHED: 12/15/11
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Earth Exploration	DRILLING EQUIPMENT: Geoprobe 6620
DRILLER: Sam Barthalow	GW DEPTH (OBSERVED): 16.0 ft
BORING LOCATION: E of Holt Rd, N of Mich St	SURFACE ELEVATION: NS

Depth BGS (ft)	USCS Symbol	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Blow Count	Sample ID
0		Grass/Topsoil	0.5					
1	CL	SILTY CLAY with trace gravel, brown (10YR 5/3), soft, moist		0.1	100			
2			2.5					
3		SAND and GRAVEL, well graded, brown (10YR 5/3), loose, moist		0.2				
4								
5				0.2				
6	SW-GW				50			
7		No Recovery 6.0 to 8.0 ft		-				
8								
9				0.2				
10		SILTY SAND with trace gravel, brown (10YR 5/3), loose, moist	9.5	0.2	75			
11	SM							
12		No Recovery 11.0 - 12.0 ft		-				
13		SAND and GRAVEL, well graded, brownish gray (10YR 6/3), loose, moist	12.5	0.1		*		Soil Sample: MMW-15D 13.0 - 15.0'
14					75			
15	SW-GW			0.2				
16		No Recovery 15.0 -16.0 ft Wet at 16.0 ft		-				
17				0.3				
18		SAND, well graded, brownish gray (10YR 6/3), loose, moist	17.5		88			
19	SW			0.2				
20		No Recovery 19.5 - 20.0 ft		-				



REMARKS:
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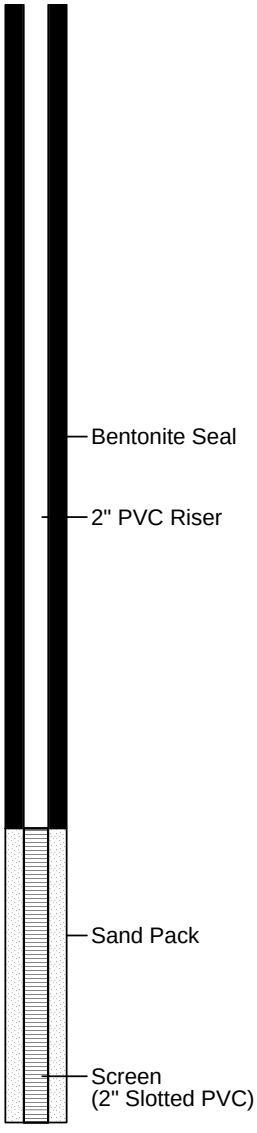
TPV = Total Photoionizable Vapors
NS = Not Surveyed

Boring/Well ID: MMW-15D

CLIENT: AIMCO	FIELD SCIENTIST: Pilar Cuadra
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 12/15/11
PROJECT NAME: Michigan Meadows Apts	DATE FINISHED: 12/15/11
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Earth Exploration	DRILLING EQUIPMENT: Geoprobe 6620
DRILLER: Sam Barthalow	GW DEPTH (OBSERVED): 16.0 ft
BORING LOCATION: E of Holt Rd, N of Mich St	SURFACE ELEVATION: NS

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Blow Count	Sample ID
20–22	SW		No Recovery 22.5 - 24.0 ft		0.2	63			
					0.3				
23					-				
24					0.4				
25–26						100			
27					0.3				
28							*		Water Sample: MMW-15D 28.5'
29					0.1				
30						100			
31					0.2				
32–33					0.2				
34						100			
35					0.7				
36									
37					0.1	100			Water Sample: MMW-15D 38.5'
38									Soil Sample: MMW-15D 38.5 - 39.0'
39	CL		SILTY CLAY with trace gravel, brownish gray (10YR 6/3), moist, stiff	38.5 39.0	0.8		*		
40			End of boring at 39 ft						

MMW-15D



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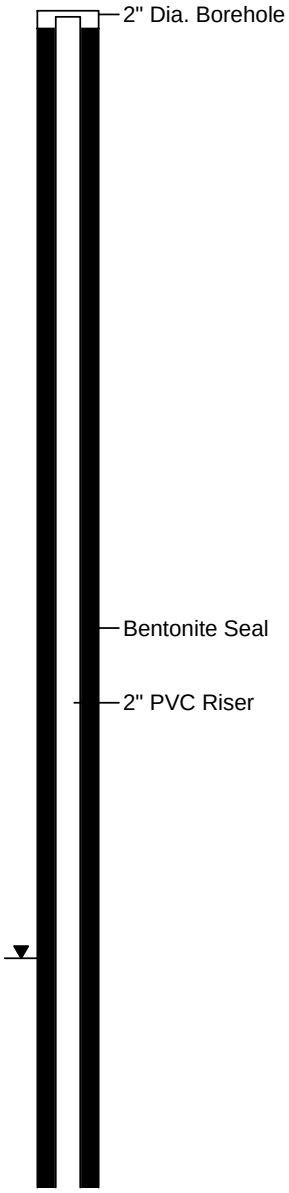
Boring/Well ID: MMW-15S

CLIENT: AIMCO	FIELD SCIENTIST: Pilar Cuadra
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 12/15/11
PROJECT NAME: Michigan Meadows Apts	DATE FINISHED: 12/15/11
PROJECT NUMBER: M01046	DRILLING METHOD: Hollow Stem Auger
DRILLING CONTRACTOR: Earth Exploration	DRILLING EQUIPMENT: CME 75
DRILLER: Sam Barthalow	GW DEPTH (OBSERVED): 16.0 ft
BORING LOCATION: E of Holt, N of Mich St	SURFACE ELEVATION: NS

Depth BGS (ft)	USCS Symbol	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Blow Count	Lab No.
0		Topsoil / Grass	0.5	-			
1	CL	SILTY CLAY with trace gravel, brown (10YR 5/3), soft, moist			100		
2			2.5	0.1			
3		SAND and GRAVEL, well graded, brown (10YR 5/3), loose, moist					
4							
5		Hand augured to 5.0 ft		0.1	88	4/2/2/3	
6		No Recovery 5.5 - 6.0 ft		-			
7	SW-GW	yellowish red (5YR 5/8) oxidation from 6.0-7.5 ft		0.2	88	8/7/6/7	
8		No Recovery 7.5 - 8.0 ft		-			
9				0.2	88	9/8/8/9	
10		No Recovery 9.5 - 10.0 ft		-			
11		SILTY SAND with trace gravel, brown (10YR 5/3), loose, moist	11	0.2	100	7/7/7/6	
12	SM						
13				0.2	100	6/6/12/3	
14		SAND and GRAVEL, well graded, brownish gray (10YR 6/2), loose, moist	13.5				
15	SW-GW			0.2	88	6/12/15/11	
16		No Recovery 15.5 -16.0 ft		-			
17	SW	SAND, well graded, brownish gray (10YR 6/2), loose wet at 16 ft	16.0	0.1	100	7/13/16/16	
18							
19	SW-GW	SAND and GRAVEL, well graded, brownish gray (10YR 6/2), loose, wet	18.5	0.2	100	7/13/13/17	
20							



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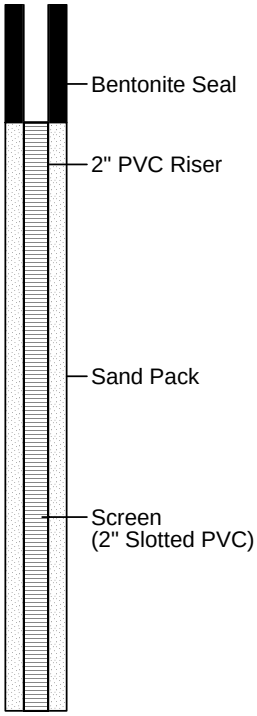
Boring/Well ID: MMW-15S

CLIENT: AIMCO	FIELD SCIENTIST: Pilar Cuadra
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 12/15/11
PROJECT NAME: Michigan Meadows Apts	DATE FINISHED: 12/15/11
PROJECT NUMBER: M01046	DRILLING METHOD: Hollow Stem Auger
DRILLING CONTRACTOR: Earth Exploration	DRILLING EQUIPMENT: CME 75
DRILLER: Sam Barthalow	GW DEPTH (OBSERVED): 16.0 ft
BORING LOCATION: E of Holt, N of Mich St	SURFACE ELEVATION: NS

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Blow Count	Lab No.
20–21	SW-GW		No Recovery 21.5 - 22 ft		0.3	88	7/6/6/10	
22					-			
23					0.2	100	6/7/8/10	
24–25					0.4	100	6/11/11/11	
26–27					0.4	100	7/8/12/13	
28–29					0.4	100	6/8/15/22	
30–31					0.3	100	4/8/12/12	
32				32				
33			End of boring at 32.0 ft					
34			See MMW-15D for soil & groundwater sampling information					
35–40								

MMW-15S



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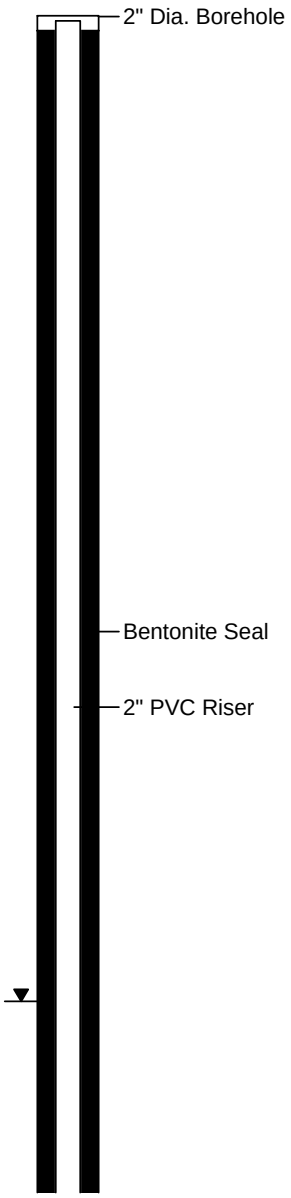
Boring/Well ID: MMW-C-02D

CLIENT: AIMCO	FIELD SCIENTIST: Sarah Webb, L.P.G.
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 12/5/11
PROJECT NAME: Michigan Meadows Apts	DATE FINISHED: 12/6/11
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Earth Exploration	DRILLING EQUIPMENT: Geoprobe 6620
DRILLER: Sam Barthalow	GW DEPTH (OBSERVED): 20.0 ft
BORING LOCATION: S. of Plaza	SURFACE ELEVATION: NS

Depth BGS (ft)	USCS Symbol	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID
0		Grass/Topsoil	.50				
1	SM	SILTY SAND with trace of gravel, brown (10YR 5/3), dense, moist		1.8	75		
2				2.1			
3		No recovery 3.0 - 4.0 ft		-			
4	SW	SAND with trace gravel, well graded, brown (10YR 5/3), loose, dry	4	1.6	100		
5							
6							
7				1.1			
8	SM	Fine to medium grained SAND with trace gravel, well graded, brown (10YR 5/3), loose, dry	8	1.7	100		
9							
10							
11				1.9			
12							
13				2.4			
14					100		
15				2.0			
16							
17				1.0			
18	SP	Fine to medium grained SAND, poorly graded, brown (10YR 5/3), dense, moist	17.5	1.1	75	*	Soil Sample: MMW-C-02D 17.5-19.0'
19		yellowish red (5YR 5/8) oxidation from 17.5 - 19.0 ft		-			
20		No Recovery 19.0 - 20.0 ft					
21		Wet at 20.0 ft		0.9			
22		Significant sand heaving problems from 20.0 - 22.0 ft			50	*	Water Sample: MMW-C-02D 22.0'
23		No Recovery 22.0 - 24.0 ft		-			
24							



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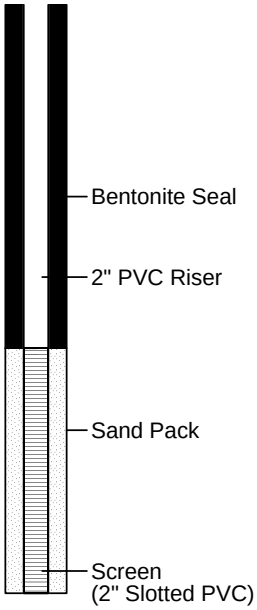
Boring/Well ID: MMW-C-02D

CLIENT: AIMCO	FIELD SCIENTIST: Sarah Webb, L.P.G.
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 12/5/11
PROJECT NAME: Michigan Meadows Apts	DATE FINISHED: 12/6/11
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Earth Exploration	DRILLING EQUIPMENT: Geoprobe 6620
DRILLER: Sam Barthalow	GW DEPTH (OBSERVED): 20.0 ft
BORING LOCATION: S. of Plaza	SURFACE ELEVATION: NS

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID
24								
25			Fine to coarse grained SAND and GRAVEL, well graded, gray (2.5Y 5/1), dense, wet		0.6			
26						100		
27					0.4			
28								
29					0.6			
30	SW-GW					100		
31					0.5			
32			Significant sand heaving problems from 28.0 - 36.0 ft				*	Water Sample: MMW-C-02D 32.0'
33					0.2			
34						100		
35					0.1			
36			SILTY CLAY, Gray (2.5YR 5/1) very stiff, moist	36				
37					0.1			
38	CL					100		
39					0.1			
40			SILTY CLAY, gray (2.5Y 5/1), very stiff, moist	40			*	Soil Sample: MMW-C-02D 40.0 - 42.0'
41	CL				0.2	100		Water Sample: MMW-C-02D 42.0'
42							*	
			End of Boring at 42.0 ft					
43								
44								
45								
46								
47								
48								

MMW-C-02D



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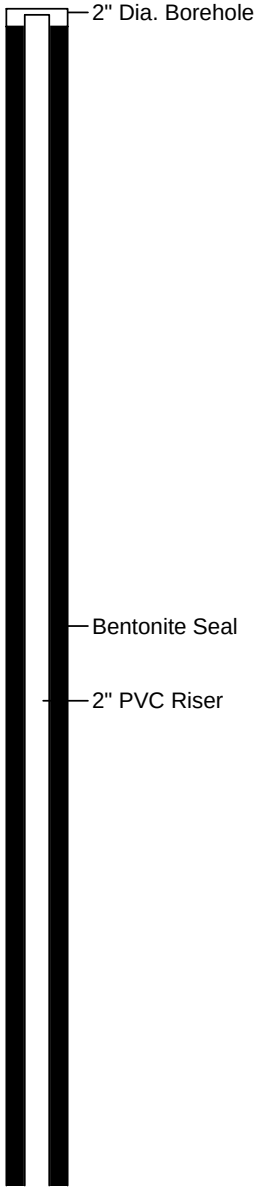
Boring/Well ID: MMW-P-11DR

CLIENT: AIMCO	FIELD SCIENTIST: Sarah Webb, L.P.G.
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 12/5/11
PROJECT NAME: Michigan Meadows Apts	DATE FINISHED: 12/5/11
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Earth Exploration	DRILLING EQUIPMENT: Geoprobe 6620
DRILLER: Sam Barthalow	GW DEPTH (OBSERVED): 21.5 ft
BORING LOCATION: Cemetery Parking Lot	SURFACE ELEVATION: NS

Depth BGS (ft)	USCS Symbol	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID
0		Grass/Topsoil	.50	-			
1	SM	SILTY SAND with trace gravel, brown (10YR 5/3), dense, dry		0.3	50		
2							
3		No recovery 2.0 - 4.0 ft		-			
4		SAND with trace gravel, well graded, brown (10YR 5/3), dense, dry	4	0.5	50		
5							
6							
7		No Recovery 6.0 to 8.0 ft		-			
8				0.6	75		
9							
10				0.7			
11	SW	No Recovery 11.0 - 12.0 ft		-			
12							
13				0.6	100		
14							
15				0.7			
16							
17				0.5	100		
18		Silty CLAY with coarse gravel seam at 17.5 ft. Brown (10YR 5/3) with yellowish red (5YR 5/8) oxidation					
19	SM	Fine grained SILTY SAND with trace gravel, brownish gray (10YR/ 6/2), stiff, moist	18.5	0.7			
20							

MMW-P-11DR



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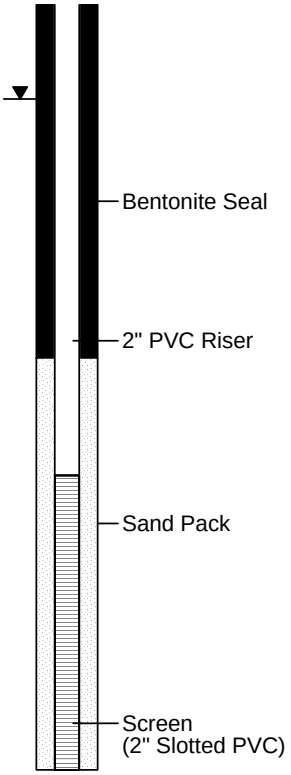
Boring/Well ID: MMW-P-11DR

CLIENT: AIMCO	FIELD SCIENTIST: Sarah Webb, L.P.G.
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 12/5/11
PROJECT NAME: Michigan Meadows Apts	DATE FINISHED: 12/5/11
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Earth Exploration	DRILLING EQUIPMENT: Geoprobe 6620
DRILLER: Sam Barthalow	GW DEPTH (OBSERVED): 21.5 ft
BORING LOCATION: Cemetery Parking Lot	SURFACE ELEVATION: NS

Depth BGS (ft)	USCS Symbol	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID
20							
21	SM	Wet at 21.5 ft	21.5	0.5	75		
22	SW-GW	Fine to coarse grained SAND and GRAVEL, brownish gray (10YR 6/3), dense, wet		0.9			
23		No Reocvery 23.0 - 24.0 ft		-			
24	SW-GW	Coarse grained SAND and GRAVEL, brownish gray (10YR 6/3), dense, wet	24	1.3	38		
25			25.5				
26		No Recovery 25.5 - 28.0 ft					
27				-			
28	SW-GW	Coarse grained SAND and GRAVEL, brownish gray (10YR 6/3), dense, wet	28	1.8	100		
29							
30							
31	SW-GW	Fine to medium grained SAND with trace gravel, brownish gray (10YR 6/3), dense, wet	31	2.4			
32	SW-GW	Cuttings indicate SAND and GRAVEL, well graded, brownish grey (10YR 6/3), dense, wet	32				
33		Significant sand heaving issues					
34				-	100		
35							
36	CL	SILTY CLAY, gray (2.5Y 5/1) very stiff, dry	36				
37				0.3			
38					100		
39				0.3			
40		End of Boring at 40 ft					

MMW-P-11DR



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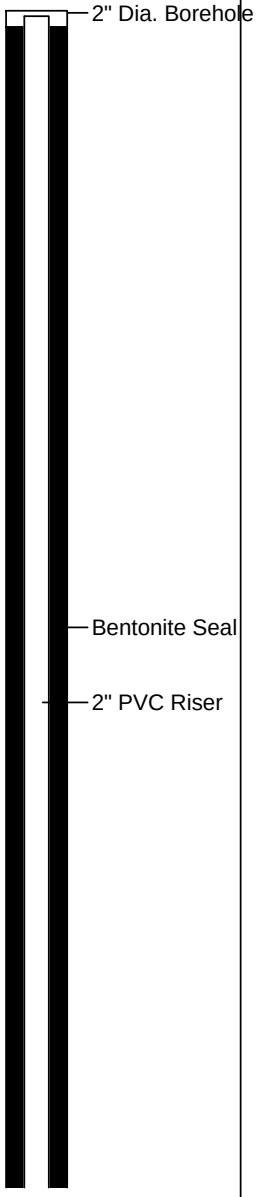
Boring/Well ID: MMW-P-14D

CLIENT: AIMCO	FIELD SCIENTIST: Sarah Webb, L.P.G.
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 12/6/11
PROJECT NAME: Michigan Meadows Apts	DATE FINISHED: 12/6/11
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Earth Exploration	DRILLING EQUIPMENT: Geoprobe 6620
DRILLER: Sam Barthalow	GW DEPTH (OBSERVED): 23.0 ft
BORING LOCATION: E Side of Holt S of Mich	SURFACE ELEVATION: NS

Depth BGS (ft)	USCS Symbol	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID
0		Grass/Topsoil	.50				
1	CL	SILTY CLAY with trace sand, brown (10YR 5/3), stiff, moist		0.2	50		
2							
3		No Recovery 2.0 - 4.0 ft		-			
4	SW	Fine to medium grained SAND with trace gravel, well graded, light brown (10YR 5/6), dense, moist	4.0	0.3	100		
5							
6				0.4			
7							
8		yellowish red (5YR 5/8) oxidation from 8.5 - 9.0 ft		0.3			
9							
10	SW-GW	SAND and GRAVEL, well graded, brown (10YR 5/3), dense, moist		0.2	100		
11							
12		yellowish red (5YR 5/8) oxidation at 12.5 ft	12.0	0.2			
13							
14					100		
15				0.2			
16	CL	SILTY CLAY, gray (2.5Y 5/1), stiff, moist	15.5				
17	SW	Fine to coarse grained SAND with a little gravel, well graded, brown (10YR 5/3), dense, moist	16.0	0.3			
18		Fine grained sand seam from 16.5 - 17.5 ft			100		
19	SW	Fine to medium grained SAND with trace gravel, well graded, brown (10YR 5/3) dense, moist	19.0	0.3		*	Soil Sample: MMW-P-14D 19 - 20'
20	SW-GW	SAND and GRAVEL, well graded, brown (10YR 5/3), moist, dense	20.0	0.2	100		
21							
22							

MMW-P-14D



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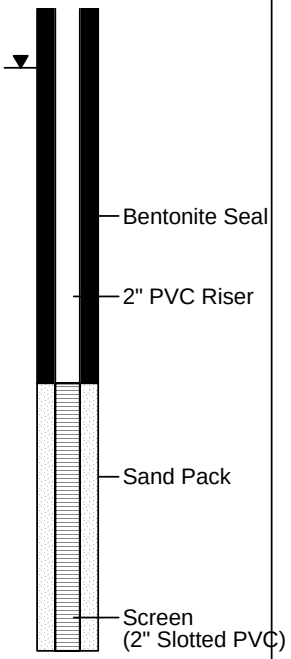
Boring/Well ID: MMW-P-14D

CLIENT: AIMCO	FIELD SCIENTIST: Sarah Webb, L.P.G.
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 12/6/11
PROJECT NAME: Michigan Meadows Apts	DATE FINISHED: 12/6/11
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Earth Exploration	DRILLING EQUIPMENT: Geoprobe 6620
DRILLER: Sam Barthalow	GW DEPTH (OBSERVED): 23.0 ft
BORING LOCATION: E Side of Holt S of Mich	SURFACE ELEVATION: NS

Depth BGS (ft)	USCS Symbol	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID
22							
23		Wet at 23.0 ft		0.2	100		Water Sample: MMW-P-14D 24'
24						*	
25	SW-GW			0.2			
26					50		
27		No Recovery 26.0 - 28.0 ft		-			
28			28.0				
29		SAND and GRAVEL, well graded, gray (2.5Y 5/1), dense, wet					
30				-	50		
31		No Recovery 30.0 - 32.0 ft					
32	SW-GW						
33				0.2			
34		gray silty clay seam from 33.5 -34.0 ft			50	*	Water Sample: MMW-P-14D 34'
35		No Recovery 34.0 - 36.0 ft		-			
36			36				
37		SILTY CLAY with trace gravel, gray (2.5Y 5/1), stiff, moist		0.3			
38	CL				100		
39				0.1		*	Soil Sample: MMW-P-14D 38 - 40'
40			40				
		End of boring at 40.0 ft					
41							
42							
43							
44							

MMW-P-14D



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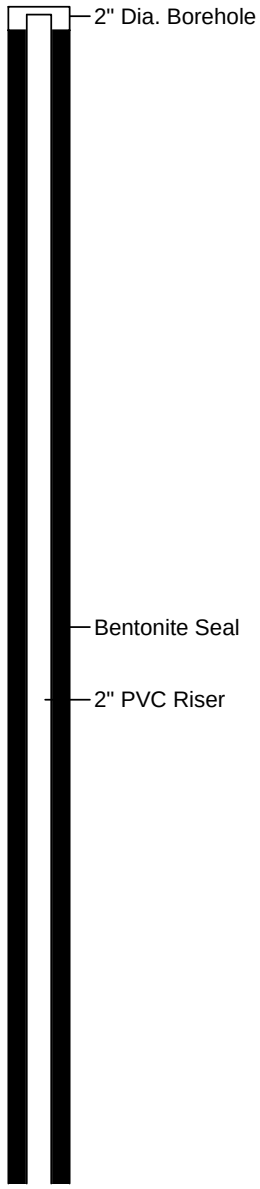
Boring/Well ID: MMW-P-14S

CLIENT: AIMCO	FIELD SCIENTIST: Sarah Webb, L.P.G.
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 12/6/11
PROJECT NAME: Michigan Meadows Apts	DATE FINISHED: 12/6/11
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Earth Exploration	DRILLING EQUIPMENT: Geoprobe 6620
DRILLER: Sam Barthalow	GW DEPTH (OBSERVED): 20.0
BORING LOCATION: E Side of Holt S of Mich	SURFACE ELEVATION: NS

Depth BGS (ft)	USCS Symbol	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID
0		Grass/Topsoil	.50				
1	CL	SILTY CLAY with trace sand, dark brown (10YR 3/3), loose, moist		0.1	50		
2							
3		No recovery 2.0 - 4.0 ft		-			
4	SW-GW	SAND and GRAVEL, well graded, brown (10YR 5/3), loose, dry	4.0	0.2	100		
5							
6							
7				0.3			
8							
9				0.2			
10	SM	Fine to medium grained SAND with trace gravel, well graded, brown (10YR 5/3), dense, moist	9.5	0.2	75		
11		No Recovery 11.0 - 12.0 ft		-			
12	SW-GW	SAND and GRAVEL, poorly graded, brown (10YR5/3), dense, moist	12.0				
13		Medium to fine grained sand seam, brown (10YR 5/3), at 13.0 ft		0.2	50		
14							
15		No Recovery 14.0 - 16.0 ft		-			

MMW-P-14S



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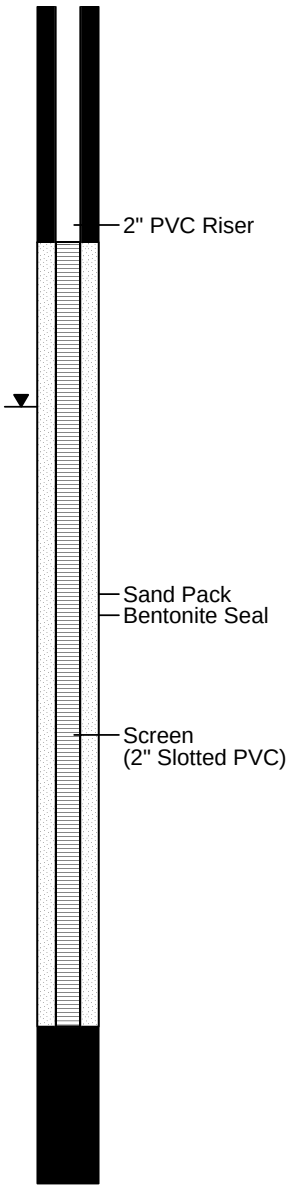
Boring/Well ID: MMW-P-14S

CLIENT: AIMCO	FIELD SCIENTIST: Sarah Webb, L.P.G.
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 12/6/11
PROJECT NAME: Michigan Meadows Apts	DATE FINISHED: 12/6/11
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Earth Exploration	DRILLING EQUIPMENT: Geoprobe 6620
DRILLER: Sam Barthalow	GW DEPTH (OBSERVED): 20.0
BORING LOCATION: E Side of Holt S of Mich	SURFACE ELEVATION: NS

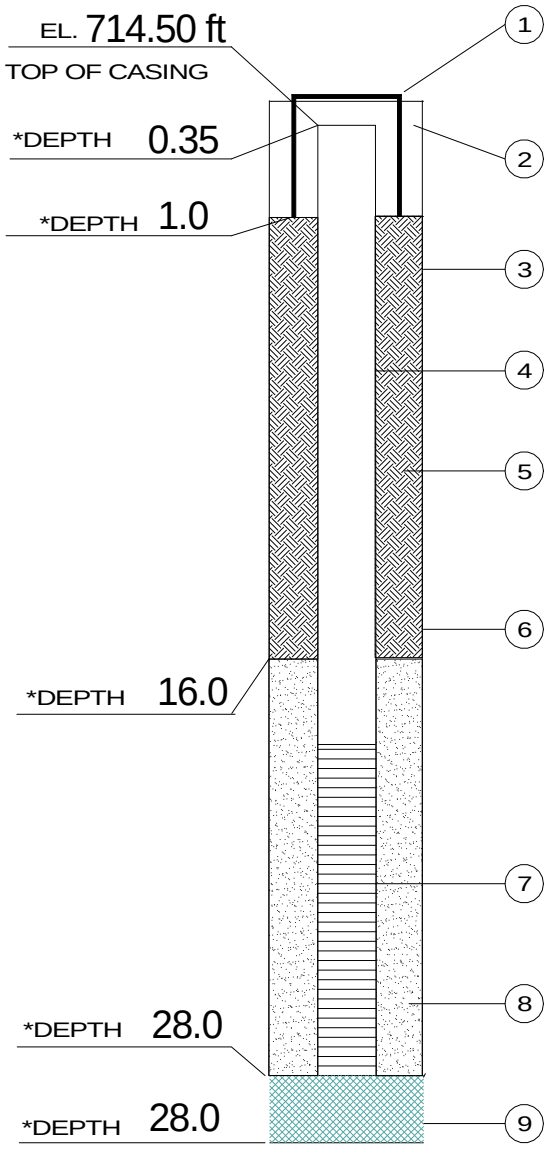
Depth BGS (ft)	USCS Symbol	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID
15				-	50		
16	SW-GW			0.2			
17	SP	Fine grained SILTY SAND, poorly graded, brown (10YR 5/3), dense, moist	17.0				
			17.5	0.1			
18	SW	Fine to coarse grained SAND, well graded, brown (10YR 5/3) dense, moist			50		
19		No Recovery 18.0 - 20.0 ft		-			
20		SAND and GRAVEL, well graded, brown (10YR 5/3) dense, wet	20.0	0.1			
21		Wet at 20.0 ft					
22				0.2	75		
23		No Recovery 23.0 - 24.0 ft		-			
24	SW-GW						
25				0.2			
26					100		
27				0.1			
28		End of Boring at 28.0 ft	28.0				
29							
30							



REMARKS:
BGS = Below Ground Surface
USCS = Unified Soil Classification System
TPV = Total Photoionizable Vapors
NS = Not Surveyed

WELL CONSTRUCTION DIAGRAM

WELL NO. MMW-P-14S



*DEPTH IN FEET BELOW GROUND LEVEL

GEOLOGIST/FIELD SCIENTIST
Sarah Webb, L.P.G.

1. PROTECTIVE CASING I.D. 8.0 INCHES
2. SURFACE SEAL TYPE Concrete Cement
3. BOREHOLE DIAMETER 2.0 INCHES
4. RISER PIPE:
   a. Type Schedule 40 PVC
   b. I.D. 2.0 INCHES
   c. Length 18.0 FEET
   d. Joint Type Flush Threaded
5. BACKFILL:
   a. Type Crushed Bentonite
   b. Installation Poured
6. TYPE OF SEAL Grout Barrier
7. SCREEN:
   a. Type Schedule 40 PVC
   b. I.D. 2.0 INCHES
   c. Slot Size 0.01 INCHES
   d. Length 10.0 FEET
8. SCREEN FILTER TYPE #4 Sand
9. BACKFILL TYPE Natural Cave / Poured Sand

DATE COMPLETED 12/6/11

DEVELOPMENT METHOD Submersible Pump

DRILLING CONTRACTOR Earth Exploration

DRILLER Sam Barthalow

RIG TYPE Hollow Stem Auger

WELL CONSTRUCTION DIAGRAM

Michigan Plaza / Michigan Apts.

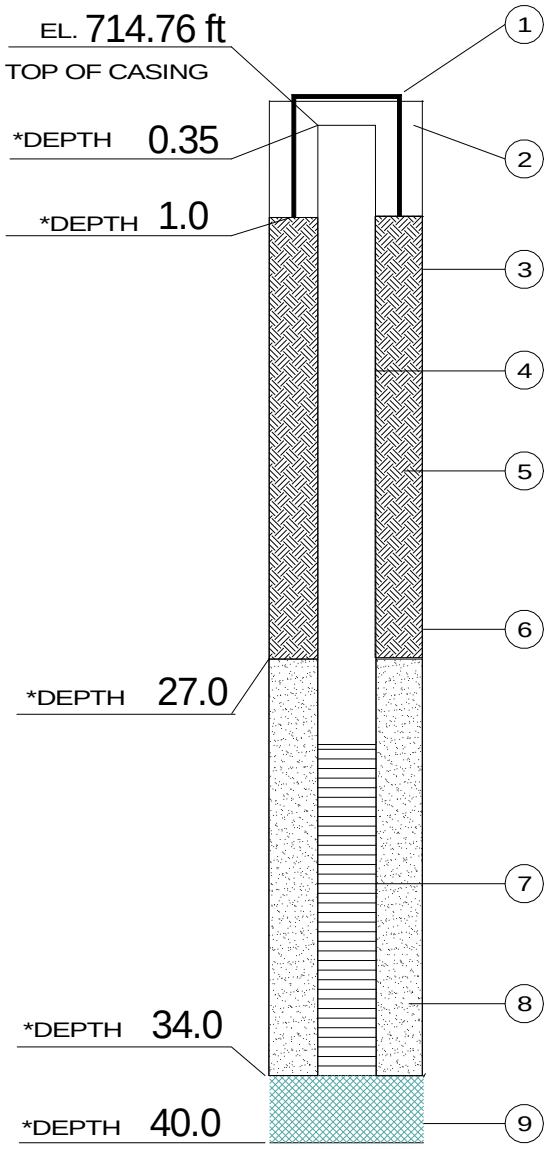
Indianapolis, Indiana

Project Number:	M01046
Drawing File:	MMW-P-14S Construction Diagram
Date Prepared:	2/29/12
Scale:	Not to Scale
Drn. By: ABW	Ckd. By: SEW
Approved By:	JAM

Mundell
Consulting Professionals for the Earth and the Environment
110 South Downey Avenue
Indianapolis, Indiana 46219-6406

WELL CONSTRUCTION DIAGRAM

WELL NO. MMW-P-14D



*DEPTH IN FEET BELOW GROUND LEVEL

GEOLOGIST/FIELD SCIENTIST
Sarah Webb, L.P.G.

1. PROTECTIVE CASING I.D. 8.0 INCHES
2. SURFACE SEAL TYPE Concrete Cement
3. BOREHOLE DIAMETER 2.0 INCHES
4. RISER PIPE:
   a. Type Schedule 40 PVC
   b. I.D. 2.0 INCHES
   c. Length 29.0 FEET
   d. Joint Type Flush Threaded
5. BACKFILL:
   a. Type Crushed Bentonite
   b. Installation Poured
6. TYPE OF SEAL Grout Barrier
7. SCREEN:
   a. Type Schedule 40 PVC
   b. I.D. 2.0 INCHES
   c. Slot Size 0.01 INCHES
   d. Length 5.0 FEET
8. SCREEN FILTER TYPE #4 Sand
9. BACKFILL TYPE Natural Cave / Poured Sand

DATE COMPLETED 12/6/11

DEVELOPMENT METHOD Submersible Pump

DRILLING CONTRACTOR Earth Exploration

DRILLER Sam Barthalow

RIG TYPE Geoprobe 6620

WELL CONSTRUCTION DIAGRAM

Michigan Plaza / Michigan Apts.

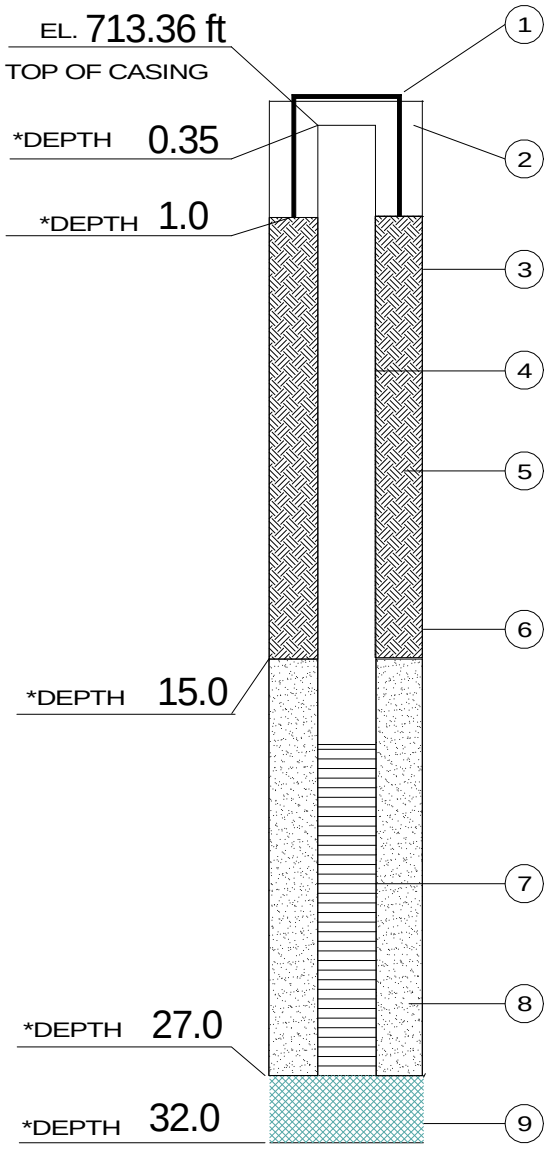
Indianapolis, Indiana

Project Number: M01046		
Drawing File: MMW-P-14D Construction Diagram		
Date Prepared: 2/29/12		
Scale: Not to Scale		
Drn. By: ABW	Ckd. By: SEW	Approved By: JAM

Mundell
Consulting Professionals for the Earth and the Environment
110 South Downey Avenue
Indianapolis, Indiana 46219-6406

WELL CONSTRUCTION DIAGRAM

WELL NO. MMW-15S



*DEPTH IN FEET BELOW GROUND LEVEL

GEOLOGIST/FIELD SCIENTIST
Pilar Cuadra

1. PROTECTIVE CASING I.D. 8.0 INCHES
2. SURFACE SEAL TYPE Concrete Cement
3. BOREHOLE DIAMETER 2.0 INCHES
4. RISER PIPE:
   a. Type Schedule 40 PVC
   b. I.D. 2.0 INCHES
   c. Length 17.0 FEET
   d. Joint Type Flush Threaded
5. BACKFILL:
   a. Type Crushed Bentonite
   b. Installation Poured
6. TYPE OF SEAL Grout Barrier
7. SCREEN:
   a. Type Schedule 40 PVC
   b. I.D. 2.0 INCHES
   c. Slot Size 0.01 INCHES
   d. Length 10.0 FEET
8. SCREEN FILTER TYPE #4 Sand
9. BACKFILL TYPE Natural Cave / Poured Sand

DATE COMPLETED 12/15/11
DEVELOPMENT METHOD Submersible Pump
DRILLING CONTRACTOR Earth Exploration
DRILLER Sam Barthalow
RIG TYPE Hollow Stem Auger

WELL CONSTRUCTION DIAGRAM

Michigan Plaza / Michigan Apts.

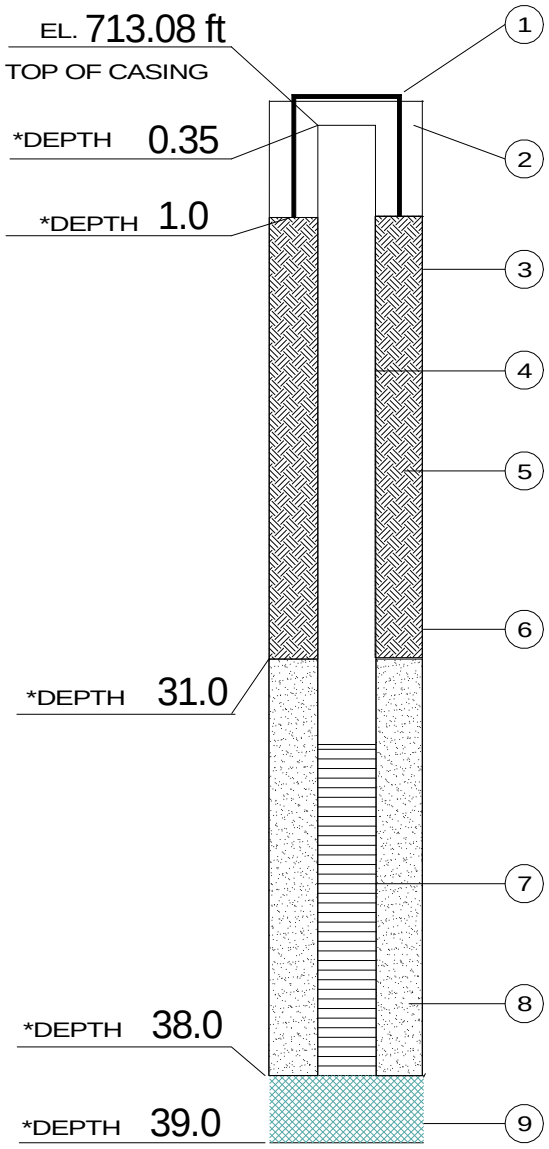
Indianapolis, Indiana

Project Number:	M01046
Drawing File:	MMW-15S Construction Diagram
Date Prepared:	2/29/12
Scale:	Not to Scale
Drn. By: ABW	Ckd. By: SEW
Approved By:	JAM

Mundell
Consulting Professionals for the Earth and the Environment
110 South Downey Avenue
Indianapolis, Indiana 46219-6406

WELL CONSTRUCTION DIAGRAM

WELL NO. MMW-15D



*DEPTH IN FEET BELOW GROUND LEVEL

GEOLOGIST/FIELD SCIENTIST
Pilar Cuadra

1. PROTECTIVE CASING I.D. 8.0 INCHES
2. SURFACE SEAL TYPE Concrete Cement
3. BOREHOLE DIAMETER 2.0 INCHES
4. RISER PIPE:
   a. Type Schedule 40 PVC
   b. I.D. 2.0 INCHES
   c. Length 33.0 FEET
   d. Joint Type Flush Threaded
5. BACKFILL:
   a. Type Crushed Bentonite
   b. Installation Poured
6. TYPE OF SEAL Grout Barrier
7. SCREEN:
   a. Type Schedule 40 PVC
   b. I.D. 2.0 INCHES
   c. Slot Size 0.01 INCHES
   d. Length 5.0 FEET
8. SCREEN FILTER TYPE #4 Sand
9. BACKFILL TYPE Natural Cave / Poured Sand

DATE COMPLETED 12/15/11
DEVELOPMENT METHOD Submersible Pump
DRILLING CONTRACTOR Earth Exploration
DRILLER Sam Barthalow
RIG TYPE Hollow Stem Auger

WELL CONSTRUCTION DIAGRAM

Michigan Plaza / Michigan Apts.

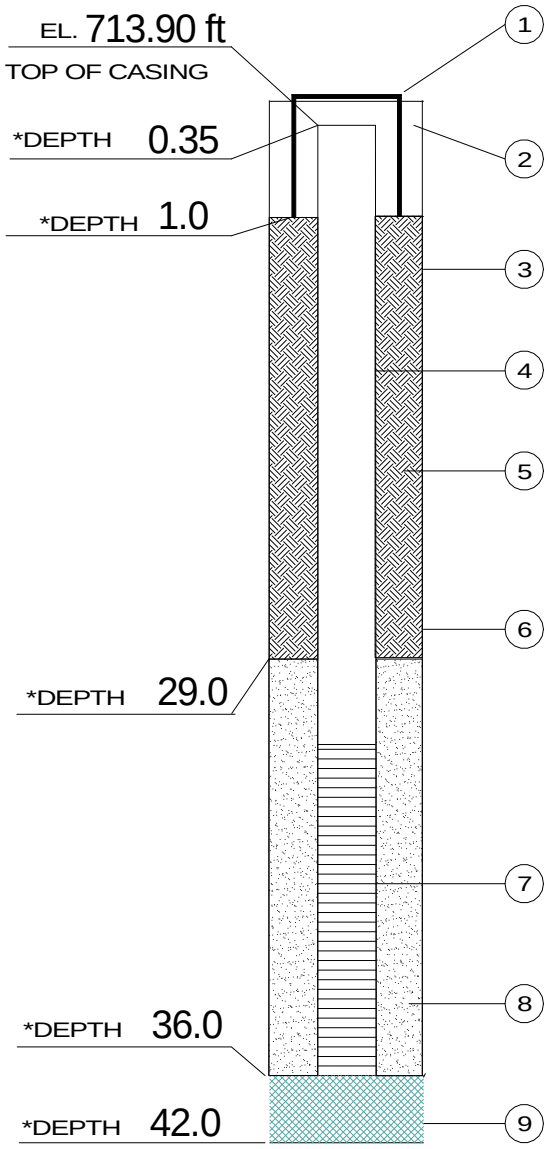
Indianapolis, Indiana

Project Number:	M01046
Drawing File:	MMW-15D Construction Diagram
Date Prepared:	2/29/12
Scale:	Not to Scale
Drn. By: ABW	Ckd. By: SEW
Approved By:	JAM

Mundell
Consulting Professionals for the Earth and the Environment
110 South Downey Avenue
Indianapolis, Indiana 46219-6406

WELL CONSTRUCTION DIAGRAM

WELL NO. MMW-C-02D



*DEPTH IN FEET BELOW GROUND LEVEL

GEOLOGIST/FIELD SCIENTIST
Sarah Webb, L.P.G.

1. PROTECTIVE CASING I.D. 8.0 INCHES
2. SURFACE SEAL TYPE Concrete Cement
3. BOREHOLE DIAMETER 2.0 INCHES
4. RISER PIPE:
   a. Type Schedule 40 PVC
   b. I.D. 2.0 INCHES
   c. Length 31.0 FEET
   d. Joint Type Flush Threaded
5. BACKFILL:
   a. Type Crushed Bentonite
   b. Installation Poured
6. TYPE OF SEAL Grout Barrier
7. SCREEN:
   a. Type Schedule 40 PVC
   b. I.D. 2.0 INCHES
   c. Slot Size 0.01 INCHES
   d. Length 5.0 FEET
8. SCREEN FILTER TYPE #4 Sand
9. BACKFILL TYPE Natural Cave / Poured Sand

DATE COMPLETED 12/6/11

DEVELOPMENT METHOD Submersible Pump

DRILLING CONTRACTOR Earth Exploration

DRILLER Sam Barthalow

RIG TYPE Hollow Stem Auger

WELL CONSTRUCTION DIAGRAM

Michigan Plaza / Michigan Apts.

Indianapolis, Indiana

Project Number:	M01046
Drawing File:	MMW-C-02D Construction Diagram
Date Prepared:	2/29/12
Scale:	Not to Scale
Drn. By: ABW	Ckd. By: SEW
Approved By:	JAM

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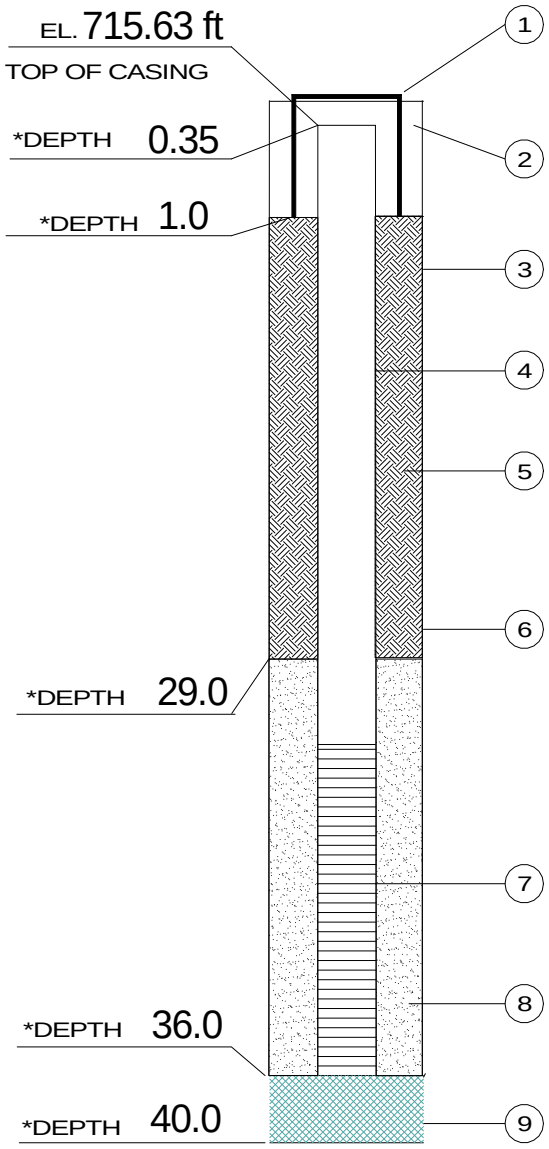
Consulting Professionals for the Earth and the Environment
110 South Downey Avenue
Indianapolis, Indiana 46219-6406

WELL CONSTRUCTION DIAGRAM

WELL NO. MMW-P-11DR



*DEPTH IN FEET BELOW GROUND LEVEL

GEOLOGIST/FIELD SCIENTIST
Sarah Webb, L.P.G.

1. PROTECTIVE CASING I.D. 8.0 INCHES
2. SURFACE SEAL TYPE Concrete Cement
3. BOREHOLE DIAMETER 2.0 INCHES
4. RISER PIPE:
   a. Type Schedule 40 PVC
   b. I.D. 2.0 INCHES
   c. Length 31.0 FEET
   d. Joint Type Flush Threaded
5. BACKFILL:
   a. Type Crushed Bentonite
   b. Installation Poured
6. TYPE OF SEAL Grout Barrier
7. SCREEN:
   a. Type Schedule 40 PVC
   b. I.D. 2.0 INCHES
   c. Slot Size 0.01 INCHES
   d. Length 5.0 FEET
8. SCREEN FILTER TYPE #4 Sand
9. BACKFILL TYPE Natural Cave / Poured Sand

DATE COMPLETED 12/6/11

DEVELOPMENT METHOD Submersible Pump

DRILLING CONTRACTOR Earth Exploration

DRILLER Sam Barthalow

RIG TYPE Hollow Stem Auger

WELL CONSTRUCTION DIAGRAM

Michigan Plaza / Michigan Apts.

Indianapolis, Indiana

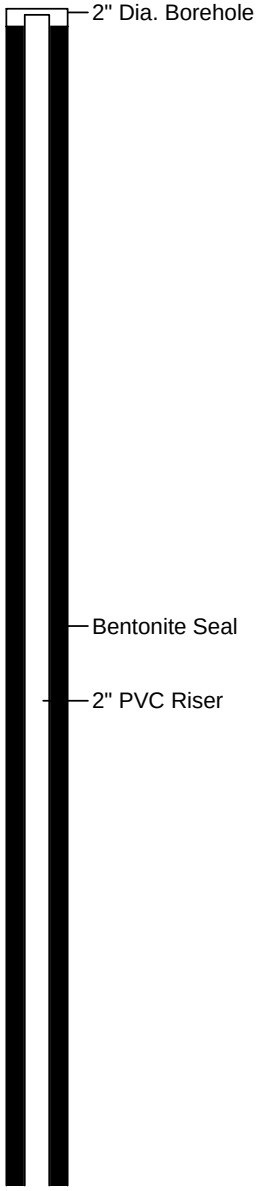
Project Number:	M01046
Drawing File:	MMW-P-11DR Construction Diagram
Date Prepared:	12/15/11
Scale:	Not to Scale
Drn. By: ABW	Ckd. By: SEW
Approved By:	JAM

Mundell
Consulting Professionals for the Earth and the Environment
110 South Downey Avenue
Indianapolis, Indiana 46219-6406

Boring/Well ID: MMW-P-11D

CLIENT: AIMCO	FIELD SCIENTIST: Sarah Webb, L. P. G.
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 8/31/11
PROJECT NAME: Michigan Meadows Apts	DATE FINISHED: 8/31/11
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Earth Exploration	DRILLING EQUIPMENT: Geoprobe 6620
DRILLER: Doug Carlson	GW DEPTH (OBSERVED): 24.0 ft
BORING LOCATION: SW of Michigan Plaza	SURFACE ELEVATION: NS

Depth BGS (ft)	USCS Symbol	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID
0		Grass/Topsoil	0.5				
1	SM	SILTY SAND with trace gravel, brown (10YR 5/3), dense, dry		0.6	75		
2				-			
3				0.6			
4				-			
5	SW	SAND with some gravel, Well Graded, brown (10YR 5/3), loose, dry	5.0	0.7	75		
6				0.5			
7		No Recovery 7 to 8 ft		-			
8				0.6			
9							
10				0.3	75		
11		No Recovery 11 to12 ft		-			
12		Moist below 12 ft		0.4			
13				0.4			
14		Yellowish red (5YR 5/8) oxidation 13 to 15 ft			75		
15		No Recovery 15 to 16 ft		-			
16				0.6		*	Soil Sample SBP11D:160170
17	SM	Fine grained SILTY SAND with trace gravel, brown (10YR 5/3), moist	17.0	0.7	75		
18							
19		No Recovery 19 to 20 ft		-			
20							

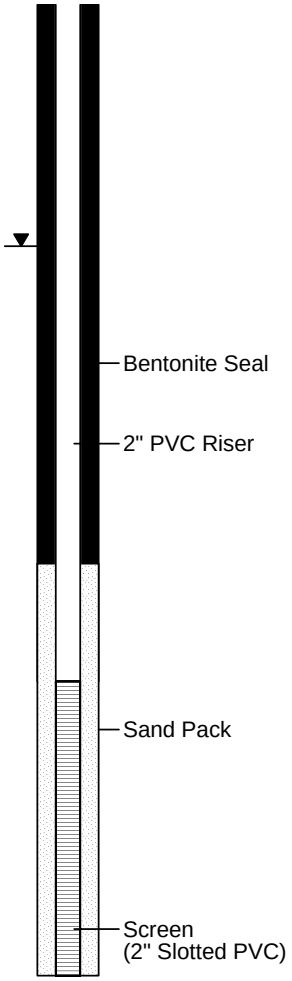


REMARKS:
BGS = Below Ground Surface
USCS = Unified Soil Classification System
TPV = Total Photoionizable Vapors
NS = Not Surveyed

Boring/Well ID: MMW-P-11D

CLIENT: AIMCO	FIELD SCIENTIST: Sarah Webb, L. P. G.
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 8/31/11
PROJECT NAME: Michigan Meadows Apts	DATE FINISHED: 8/31/11
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Earth Exploration	DRILLING EQUIPMENT: Geoprobe 6620
DRILLER: Doug Carlson	GW DEPTH (OBSERVED): 24.0 ft
BORING LOCATION: SW of Michigan Plaza	SURFACE ELEVATION: NS

Depth BGS (ft)	USCS Symbol	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID
20	SW	SAND with trace gravel, Well Graded, brown (10YR 5/3), dense		12.4	75		
21		Fine to medium SAND 21 to 21.5 ft					
22		Medium to coarse SAND with trace gravel 21.5 to 23 ft		0.8			
23		No Recovery 23 to 24 ft		-			
24	SW-GW	Coarse SAND and GRAVEL, grayish brown (10YR 5/2), dense, wet	24.0	0.8	38		
25							
26		No Recovery 25.5 to 28 ft		-			
27							
28		Fine to coarse SAND 28 to 29 ft		0.7	83	*	Water Sample SBP11D:290
29							
30			30.5	1.2			
31	SW	Medium to coarse SAND with trace gravel, dense, wet		-			
32		No Recovery 31.5 to 32 ft		1.3	75		
33							
34				1.2			
35		No recovery 35 to 36 ft		-			
36			36.5	0.6			
37	CL	SILTY CLAY, gray (2.5Y 5/1), moist			75	*	Soil Sample SBP11D:370390
38		Becomes stiff and dry at 39 ft	39.0	0.6		*	Water Sample SBP11D:390
39		End of boring at 39 ft					
40							



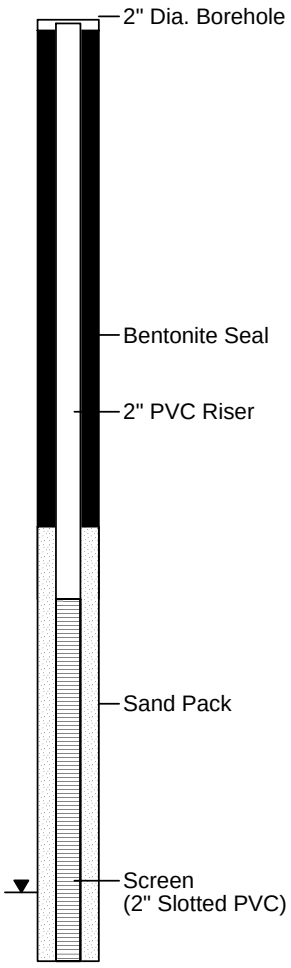
REMARKS:
BGS = Below Ground Surface
USCS = Unified Soil Classification System
TPV = Total Photoionizable Vapors
NS = Not Surveyed

Boring/Well ID: MMW-P-11S

CLIENT: AIMCO	FIELD SCIENTIST: Sarah Webb, L. P. G.
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 8/31/11
PROJECT NAME: Michigan Meadows Apts	DATE FINISHED: 8/31/11
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Earth Exploration	DRILLING EQUIPMENT: Geoprobe 6620
DRILLER: Doug Carlson	GW DEPTH (OBSERVED): 24.0 ft
BORING LOCATION: SW of Michigan Plaza	SURFACE ELEVATION: NS

Depth BGS (ft)	USCS Symbol	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID
0		Grass/Topsoil	0.5	0.9	75		
1	SM	SILTY SAND with trace gravel, brown (10YR 5/3), dense, dry	1.5	0.6			
2				-			
3	SW	SAND with trace gravel, Well Graded, brown (10YR 5/3), loose					
4		No Recovery 3 to 4 ft	4.5	0.8	75		
5	SM	SILTY SAND with trace gravel, brown (10YR 5/3), dense	5.0	1.2			
6							
7	SW-GW	SAND and GRAVEL, Well Graded, brown (10YR 5/3), loose, moist		-			
8		No Recovery 7 to 8 ft	8.0	1.1			
9		SAND with some gravel, Well Graded, brown (10YR 5/3), loose, moist					
10				1.5	75		
11		Fine SAND seam with yellowish red (5YR 5/8) oxidation at 9.5 ft					
12		No Recovery 11 to 12 ft					
13		Rock in shoe 12 to 16 ft, cuttings indicate fine to medium SAND with trace gravel, brown (10YR 5/3)		-	0		
14							
15							
16	SW			1.2			
17		SILT with gravel seams, moist at 17.5 and 18 ft					
18				1.8	63		
19		No Recovery 18.5 to 20 ft		-			
20		Medium to coarse SAND with trace gravel, brownish gray (10YR 6/2), wet 20 to 23 ft					
21				13.0			
22		Coarse SAND and GRAVEL at 21 ft			75		
23				2.5			
24		No Recovery 23 to 24 ft		-			
25		Fine to coarse SAND and GRAVEL, grayish brown (10YR 5/2), dense, wet	24.0	1.8			
26					38		
27		No Recovery 25.5 to 28 ft		-			
28	SW-GW						
29				1.5			
30							
31		No Recovery 29 to 32 ft		-	25		
32			32.0				
		End of boring at 32 ft					

MMW-P-11S

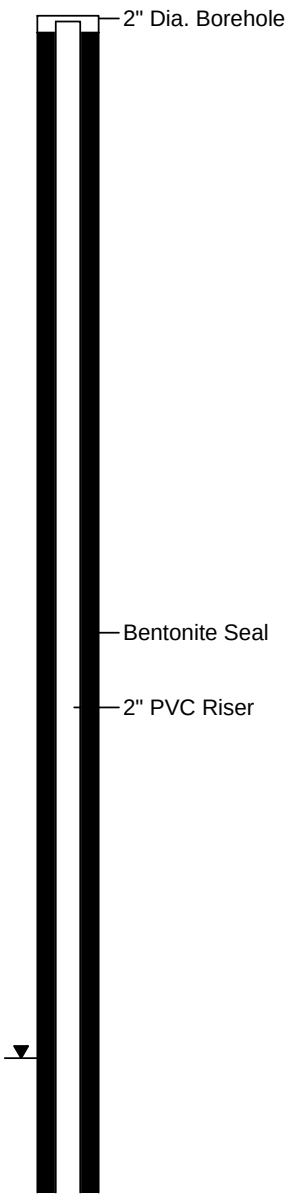


REMARKS:
BGS = Below Ground Surface
USCS = Unified Soil Classification System
TPV = Total Photoionizable Vapors
NS = Not Surveyed

Boring/Well ID: MMW-P-12D

CLIENT: AIMCO	FIELD SCIENTIST: Sarah Webb, L. P. G.
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 9/1/11
PROJECT NAME: Michigan Meadows Apts	DATE FINISHED: 9/1/11
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Earth Exploration	DRILLING EQUIPMENT: Geoprobe 6620
DRILLER: Doug Carlson	GW DEPTH (OBSERVED): 18.5 ft
BORING LOCATION: NW of Michigan Plaza	SURFACE ELEVATION: NS

Depth BGS (ft)	USCS Symbol	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID
0		Asphalt/Topsoil	0.5				
1	SM	SILTY SAND with trace gravel, dark brown (7.5YR 3/2), dense, dry		3.6	75		
2				2.7			
3		No Recovery 3 to 4 ft		-			
4							
5	SW	SAND with some gravel, Well Graded, brown (10YR 5/3), loose, dry	5.0	7.0	75		
6				3.7			
7		No Recovery 7 to 8 ft		-			
8				3.8	63		
9							
10		Yellowish red (5YR 5/8) oxidation 10 to 10.5 ft		4.8			
11		No Recovery 10.5 to 12 ft		-			
12							
13				7.9			
14	ML	SILT with trace sand, brown (10YR 5/3), loose, moist	14.0		75		
15	SM	Fine SILTY SAND, brown (10YR 5/3) with yellowish red (5YR 5/8) oxidation, loose, moist	14.5	11.0			
16		No Recovery 15 to 16 ft	16.0	-			
17	SW	Fine to medium SAND with trace gravel, brown (10YR 5/3), dense		13.8		*	Soil Sample SBP12D:160180
18		Yellowish red (5YR 5/8) oxidation at 17.5 ft			75		
19	SW-GW	SAND and GRAVEL, Well Graded, gray (2.5Y 5/1), dense, wet	18.5	12.1			
20		No Recovery 19 to 20 ft	20.0	-			
21	SW	Fine to medium SAND with trace gravel, brownish gray (10YR 6/2), dense, wet		2.9	75		



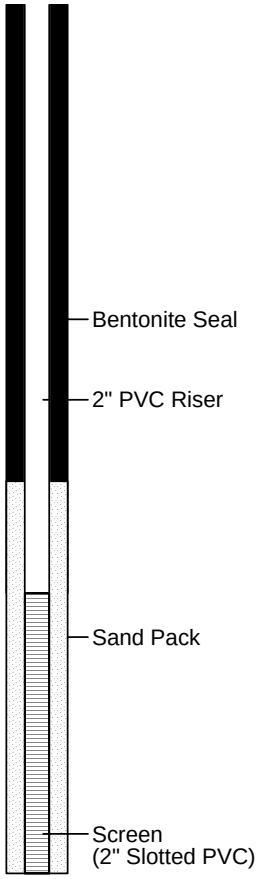
REMARKS:
BGS = Below Ground Surface
USCS = Unified Soil Classification System
TPV = Total Photoionizable Vapors
NS = Not Surveyed

Boring/Well ID: MMW-P-12D

CLIENT: AIMCO	FIELD SCIENTIST: Sarah Webb, L. P. G.
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 9/1/11
PROJECT NAME: Michigan Meadows Apts	DATE FINISHED: 9/1/11
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Earth Exploration	DRILLING EQUIPMENT: Geoprobe 6620
DRILLER: Doug Carlson	GW DEPTH (OBSERVED): 18.5 ft
BORING LOCATION: NW of Michigan Plaza	SURFACE ELEVATION: NS

Depth BGS (ft)	USCS Symbol	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID
21	CL	SILTY CLAY, brownish gray (10YR 6/2), hard, plastic, wet	21.0	2.9			
21.5			21.5	1.3	75		
22		SAND and GRAVEL, Well Graded, brownish gray (10YR 6/2), wet		-			
23		Coarse SAND and GRAVEL, gray (2.5Y 5/1) 22.5 to 23 ft		2.4			
24		No Recovery 23 to 24 ft					
25					25	*	Water Sample SBP12D:260
26							
27							
28	SW-GW	No Recovery 25 to 32 ft		-			
29					0		
30							
31							
32							
33				3.5			
34					100		
35				9.3			
36	SW	Fine SAND, brown (10YR 5/3), dense, wet	36.0			*	Water Sample SBP12D:360
36.5		SILTY CLAY, gray (2.5Y 5/1), stiff, dry	36.5	6.5		*	Soil Sample SBP12D:360370
37							
38	CL	No Recovery 37 to 40 ft		-	25		
39							
40			40.0				
41		End of boring at 40 ft					
42							

MMW-P-12D



REMARKS:
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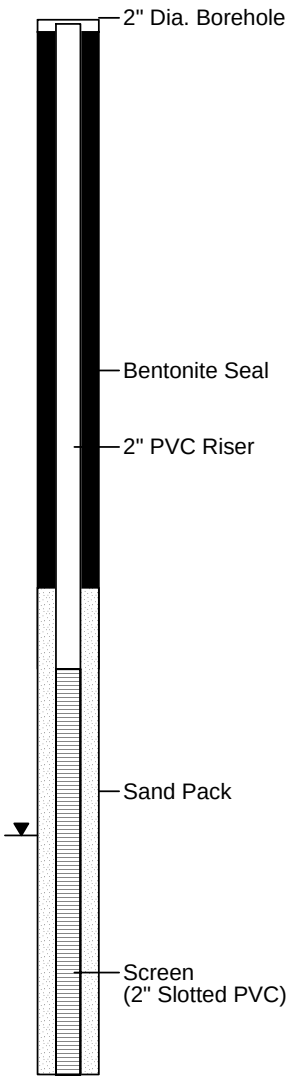
USCS = Unified Soil Classification System
TPV = Total Photoionizable Vapors
NS = Not Surveyed

Boring/Well ID: MMW-P-12S

CLIENT: AIMCO	FIELD SCIENTIST: Sarah Webb, L. P. G.
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 9/1/11
PROJECT NAME: Michigan Meadows Apts	DATE FINISHED: 9/1/11
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Earth Exploration	DRILLING EQUIPMENT: Geoprobe 6620
DRILLER: Doug Carlson	GW DEPTH (OBSERVED): 20.0 ft
BORING LOCATION: NW of Michigan Plaza	SURFACE ELEVATION: NS

Depth BGS (ft)	USCS Symbol	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID
0		Asphalt	0.5				
1	SM	SILTY SAND with trace gravel, brown (10YR 5/3), dense, dry		3.7	75		
2				4.4			
3							
4		No Recovery 3 to 4 ft		-			
5	SW	SAND with trace gravel, Well Graded, brown (10YR 5/3), loose	5.0	7.5	75		
6							
7				6.3			
8		No Recovery 7 to 8 ft		-			
9		Some GRAVEL 8 to 11 ft		8.6	75		
10							
11				8.3			
12		No Recovery 11 to 12 ft		-			
13	SM	SILTY SAND, Well Graded, brown (10YR 5/3), dense, dry	12.0	13.2	50		
14	SW	SAND with some gravel, Well Graded, brown (10YR 5/3) with some yellowish red (5YR 5/8) oxidation, dense	13.0				
15		No Recovery 14 to 16 ft		-			
16							
17		Fine to medium SAND, moist 16 to 18 ft		35.6	50		
18							
19		No Recovery 18 to 20 ft		-			
20	SW-GW	SAND and GRAVEL, Well Graded, grayish brown (10YR 5/2), dense, wet	20.0	4.2	38		
21	CL	Fine to medium SAND 20.5 to 21 ft	21.0				
22	SW	SILTY CLAY, gray (2.5YR 5/1), stiff, wet	21.5	-			
23		Fine to medium SAND with trace gravel, grayish brown (10YR 5/2), dense, wet					
24	GW	Medium to coarse SAND and GRAVEL seam at 21.5 ft	24.0	5.5	100		
25							
26		No Recovery 22.5 to 24 ft	26.0				
27		Fine to coarse GRAVEL, brownish gray (10YR 6/2), dense, wet					
28		SAND and GRAVEL 25.5 to 26 ft					
29		End of boring at 26 ft					



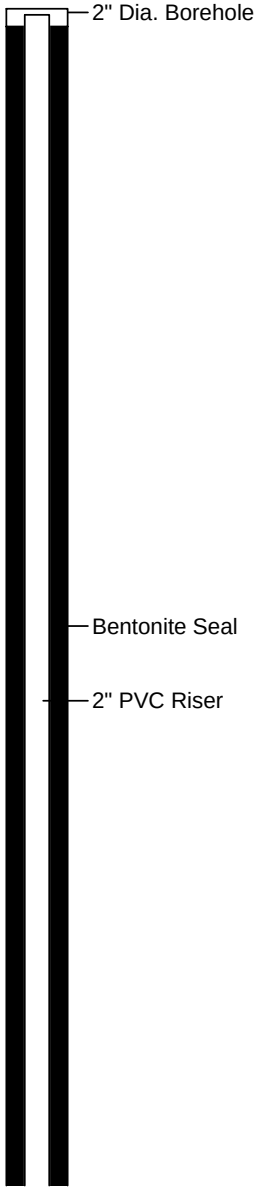
REMARKS:
BGS = Below Ground Surface
USCS = Unified Soil Classification System
TPV = Total Photoionizable Vapors
NS = Not Surveyed

Boring/Well ID: MMW-P-13D

CLIENT: AIMCO	FIELD SCIENTIST: Sarah Webb, L. P. G.
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 8/31/11
PROJECT NAME: Michigan Meadows Apts	DATE FINISHED: 8/31/11
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Earth Exploration	DRILLING EQUIPMENT: Geoprobe 6620
DRILLER: Doug Carlson	GW DEPTH (OBSERVED): 20.0 ft
BORING LOCATION: W of Michigan Plaza	SURFACE ELEVATION: NS

Depth BGS (ft)	USCS Symbol	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID
0		Grass/Topsoil	0.5				
1	SM	SILTY SAND with trace gravel, brown (10YR 5/3), dense		0.8	75		
2				0.8			
3		Fine to medium SAND, loose 2.5 to 3 ft		-			
4		No Recovery 3 to 4 ft	4.0				
5	SW-GW	SAND and GRAVEL, Well Graded, brown (10YR 5/3), loose, dry		0.9	50		
6							
7		No Recovery 6 to 8 ft		-			
8							
9				1.0	75		
10							
11				1.0			
12		No Recovery 11 to 12 ft		-			
13		Yellowish red (5YR 5/8) oxidation 12 to 13.5 ft		0.9			
14	SW	SAND with trace gravel, Well Graded, brown (10YR 5/3), loose, moist	13.5		75		
15				1.2			
16		No Recovery 15 to 16 ft		-			
17				0.7		*	Soil Sample SBP13D:160180
18	ML	SILT and fine SAND with trace coarse sand and gravel, brown (10YR 5/3), dense, moist	17.5		75		
19	SW	Fine to medium SAND with trace gravel, brown (10YR 5/3), dense	18.0	1.2			
20		No Recovery 19 to 20 ft		-			

MMW-P-13D



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TPV = Total Photoionizable Vapors
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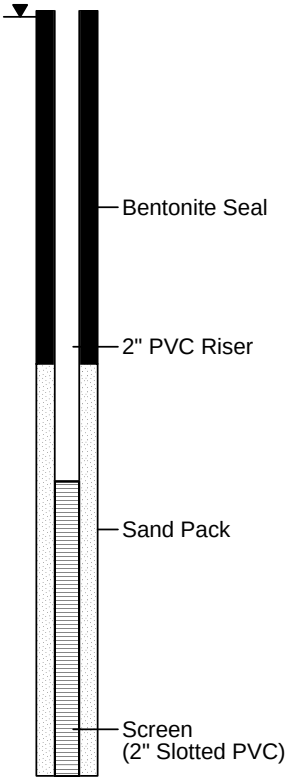
Boring/Well ID: MMW-P-13D

CLIENT: AIMCO	FIELD SCIENTIST: Sarah Webb, L. P. G.
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 8/31/11
PROJECT NAME: Michigan Meadows Apts	DATE FINISHED: 8/31/11
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Earth Exploration	DRILLING EQUIPMENT: Geoprobe 6620
DRILLER: Doug Carlson	GW DEPTH (OBSERVED): 20.0 ft
BORING LOCATION: W of Michigan Plaza	SURFACE ELEVATION: NS

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID
20	SW-GW		Coarse SAND and GRAVEL, brown (10YR 5/3), dense, wet	20.0	1.3	75		
21								
22			Fine to medium SAND 22 to 22.5 ft		1.6			
23			No Recovery 23 to 24 ft		-			
24			Fine SAND 24 to 25 ft		1.2	50	*	Water Sample SBP13D:240
25								
26					-			
27			No Recovery 26 to 28 ft					
28					3.1	63		
29			Color change to brownish gray (10YR 6/2) 28 to 30.5 ft		2.5			
30								
31			No Recovery 30.5 to 32 ft		-			
32			Color change to gray (2.5Y 5/1) 32 to 33 ft		2.5		*	Water Sample SBP13D:320
33	CL		SILTY CLAY, gray (2.5Y 5/1), stiff, dry	33.0	1.3	75		
34								
35			No recovery 35 to 36 ft		-			
36								
37					1.8	100	*	Soil Sample SBP13D:360380
38			End of boring at 38 ft	38.0				
39								
40								

MMW-P-13D



REMARKS:
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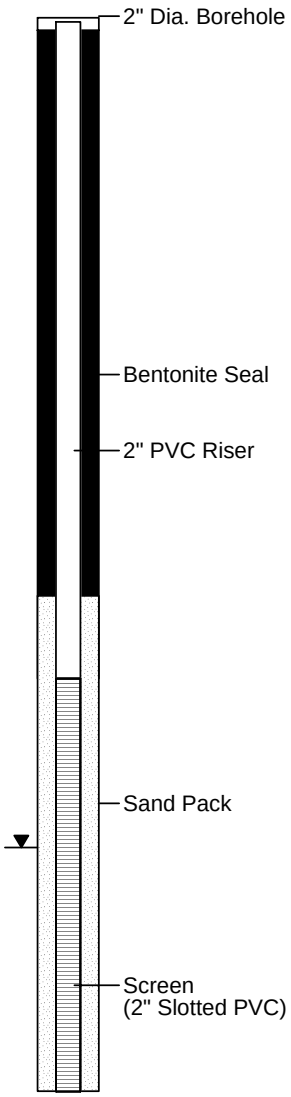
TPV = Total Photoionizable Vapors
NS = Not Surveyed

Boring/Well ID: MMW-P-13S

CLIENT: AIMCO	FIELD SCIENTIST: Sarah Webb, L.P.G.
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 8/31/11
PROJECT NAME: Michigan Meadows Apts	DATE FINISHED: 8/31/11
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Earth Exploration	DRILLING EQUIPMENT: Geoprobe 6620
DRILLER: Doug Carlson	GW DEPTH (OBSERVED): 20.0 ft
BORING LOCATION: W of Michigan Plaza	SURFACE ELEVATION: NS
	SHEET 1 OF 1

Depth BGS (ft)	USCS Symbol	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID
0		Grass/Topsoil	0.5	1.5	60		
1–3	SM	SILTY SAND with trace gravel, brown (10YR 5/3), very dense Fine SAND at 2 ft No Recovery 2 to 4 ft		-			
4			4.0				
4–5		SAND and GRAVEL, Well Graded, brown (10YR 5/3), loose, dry		0.6	63		
6				0.9			
7–8		No Recovery 6.5 to 8 ft		-			
9				1.3	75		
10	SW-GW	More dense 8 to 11 ft					
11				1.3			
11–12		No Recovery 11 to 12 ft		-			
13		Yellowish red (5YR 5/8) oxidation 12 to 13.5 ft		1.6	75		
14				1.4			
15–16		No Recovery 15 to 16 ft		-			
16			16.0				
17	SW	Fine to medium SAND with trace gravel, brown (10YR 5/3), dense, moist		1.6	75		
17	ML	Yellowish red (5YR 5/8) oxidation at 17 ft	17.5				
18			18.0				
18–19		SILT with trace sand and gravel, brownish gray (10YR 6/2), stiff, moist		1.5			
19				-			
20		Coarse SAND and GRAVEL, brown (10YR 5/3), dense		1.4	75		
21		No Recovery 19 to 20 ft					
22		Wet below 20 ft		1.7			
23	SW-GW	No Recovery 23 to 24 ft		-			
24–25		Fine SAND with trace coarse sand 24 to 25 ft		2.3	88		
26		Fine SAND with trace coarse sand and gravel 25.5 to 26 ft		2.3			
27							
28		No Recovery 27.5 to 28 ft	28.0	-			
		End of boring at 28 ft					

MMW-P-13S



REMARKS:
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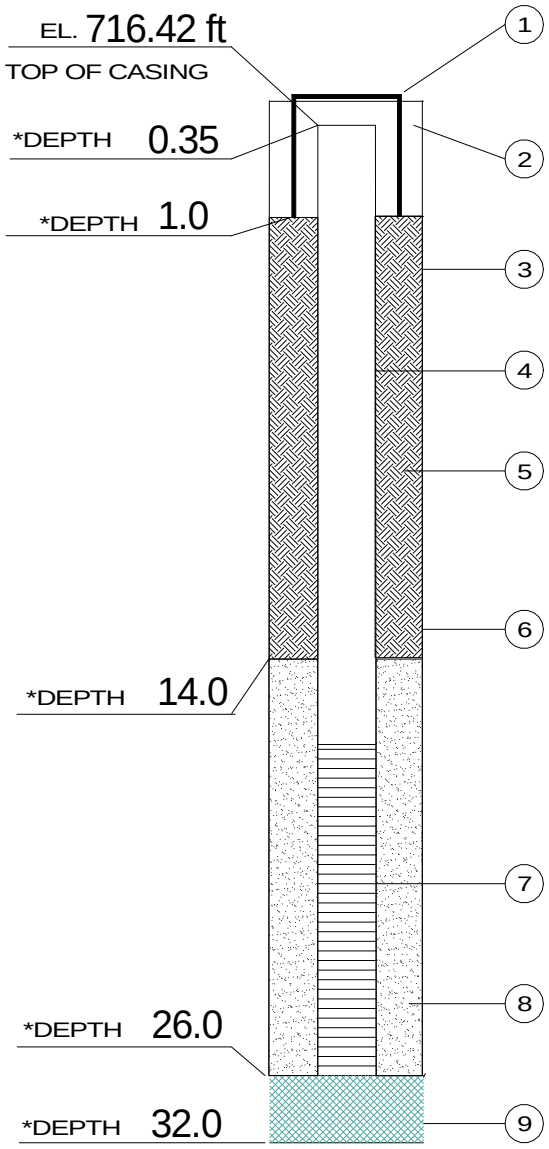
WELL CONSTRUCTION DIAGRAM

WELL NO. MMW-P-11S



*DEPTH IN FEET BELOW GROUND LEVEL

GEOLOGIST/FIELD SCIENTIST
Sarah Webb, L.P.G.

1. PROTECTIVE CASING I.D. 8.0 INCHES
2. SURFACE SEAL TYPE Concrete Cement
3. BOREHOLE DIAMETER 2.0 INCHES
4. RISER PIPE:
   a. Type Schedule 40 PVC
   b. I.D. 2.0 INCHES
   c. Length 16.0 FEET
   d. Joint Type Flush Threaded
5. BACKFILL:
   a. Type Crushed Bentonite
   b. Installation Poured
6. TYPE OF SEAL Grout Barrier
7. SCREEN:
   a. Type Schedule 40 PVC
   b. I.D. 2.0 INCHES
   c. Slot Size 0.01 INCHES
   d. Length 10.0 FEET
8. SCREEN FILTER TYPE #4 Sand
9. BACKFILL TYPE Natural Cave / Poured Sand

DATE COMPLETED 8/31/11
DEVELOPMENT METHOD Submersible Pump
DRILLING CONTRACTOR Earth Exploration
DRILLER Doug Carlson
RIG TYPE Hollow Stem Auger

WELL CONSTRUCTION DIAGRAM

Michigan Plaza / Michigan Apts.

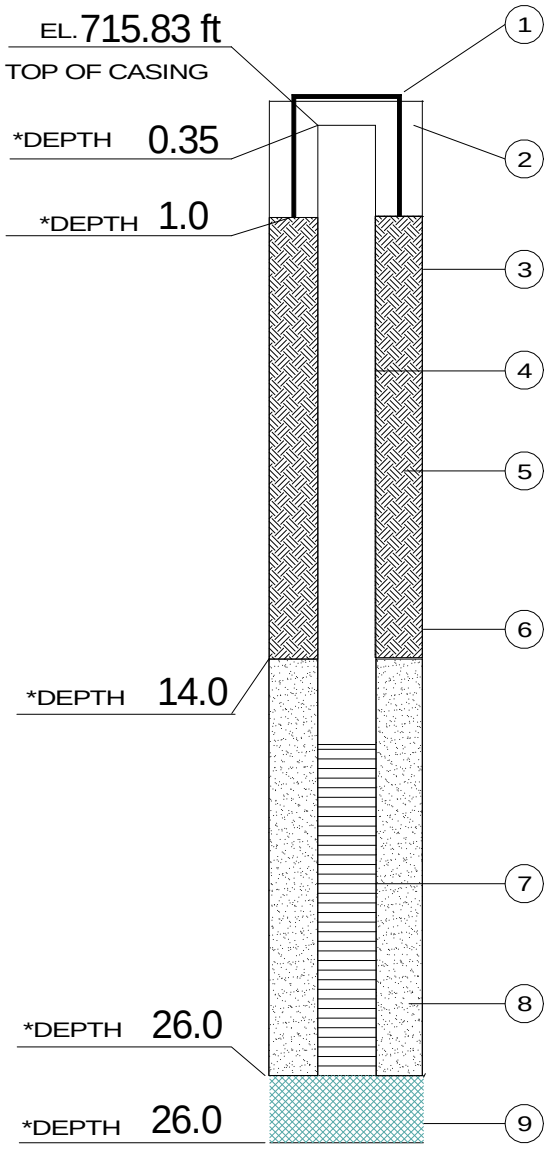
Indianapolis, Indiana

Project Number:	M01046
Drawing File:	MMW-P-11S Construction Diagram
Date Prepared:	12/15/11
Scale:	Not to Scale
Drn. By: ABW	Ckd. By: SEW
Approved By:	JAM

Mundell
Consulting Professionals for the Earth and the Environment
110 South Downey Avenue
Indianapolis, Indiana 46219-6406

WELL CONSTRUCTION DIAGRAM

WELL NO. MMW-P-12S



*DEPTH IN FEET BELOW GROUND LEVEL

GEOLOGIST/FIELD SCIENTIST
Sarah Webb, L.P.G.

1. PROTECTIVE CASING I.D. 8.0 INCHES
2. SURFACE SEAL TYPE Concrete Cement
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4. RISER PIPE:
   a. Type Schedule 40 PVC
   b. I.D. 2.0 INCHES
   c. Length 16.0 FEET
   d. Joint Type Flush Threaded
5. BACKFILL:
   a. Type Crushed Bentonite
   b. Installation Poured
6. TYPE OF SEAL Grout Barrier
7. SCREEN:
   a. Type Schedule 40 PVC
   b. I.D. 2.0 INCHES
   c. Slot Size 0.01 INCHES
   d. Length 10.0 FEET
8. SCREEN FILTER TYPE #4 Sand
9. BACKFILL TYPE Natural Cave / Poured Sand

DATE COMPLETED 9/1/11

DEVELOPMENT METHOD Submersible Pump

DRILLING CONTRACTOR Earth Exploration

DRILLER Doug Carlson

RIG TYPE Hollow Stem Auger

WELL CONSTRUCTION DIAGRAM

Michigan Plaza / Michigan Apts.

Indianapolis, Indiana

Project Number:	M01046
Drawing File:	MMW-P-12S Construction Diagram
Date Prepared:	12/15/11
Scale:	Not to Scale
Drn. By: ABW	Ckd. By: SEW
Approved By:	JAM

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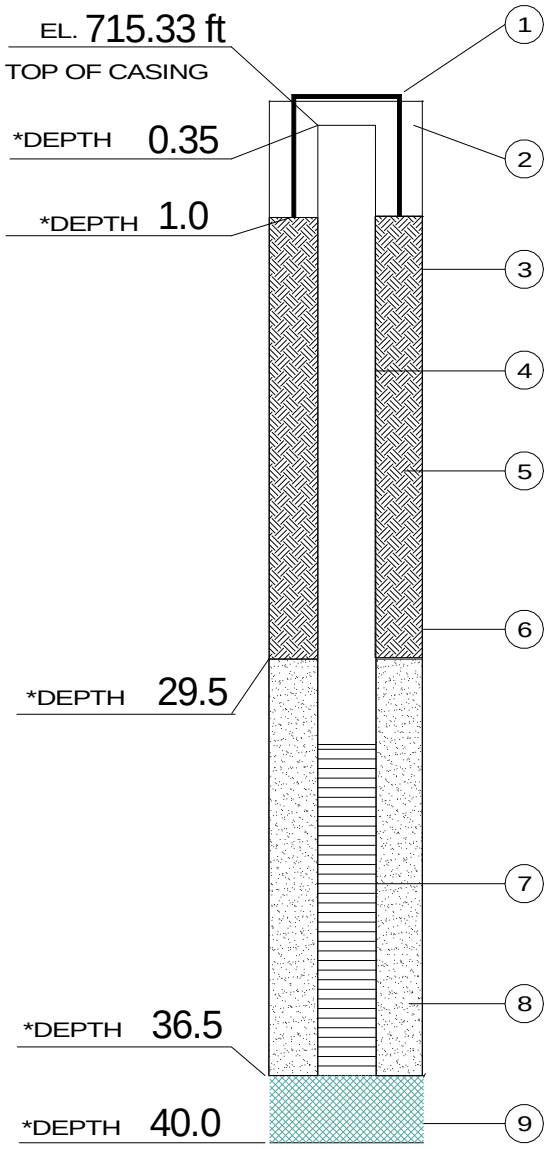
Indianapolis, Indiana 46219-6406

WELL CONSTRUCTION DIAGRAM

WELL NO. MMW-P-12D



*DEPTH IN FEET BELOW GROUND LEVEL

GEOLOGIST/FIELD SCIENTIST
Sarah Webb, L.P.G.

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2. SURFACE SEAL TYPE Concrete Cement
3. BOREHOLE DIAMETER 2.0 INCHES
4. RISER PIPE:
   a. Type Schedule 40 PVC
   b. I.D. 2.0 INCHES
   c. Length 31.5 FEET
   d. Joint Type Flush Threaded
5. BACKFILL:
   a. Type Crushed Bentonite
   b. Installation Poured
6. TYPE OF SEAL Grout Barrier
7. SCREEN:
   a. Type Schedule 40 PVC
   b. I.D. 2.0 INCHES
   c. Slot Size 0.01 INCHES
   d. Length 5.0 FEET
8. SCREEN FILTER TYPE #4 Sand
9. BACKFILL TYPE Natural Cave / Poured Sand

DATE COMPLETED 9/1/11

DEVELOPMENT METHOD Submersible Pump

DRILLING CONTRACTOR Earth Exploration

DRILLER Doug Carlson

RIG TYPE Hollow Stem Auger

WELL CONSTRUCTION DIAGRAM

Michigan Plaza / Michigan Apts.

Indianapolis, Indiana

Project Number:	M01046
Drawing File:	MMW-P-12D Construction Diagram
Date Prepared:	12/15/11
Scale:	Not to Scale
Drn. By: ABW	Ckd. By: SEW
Approved By:	JAM

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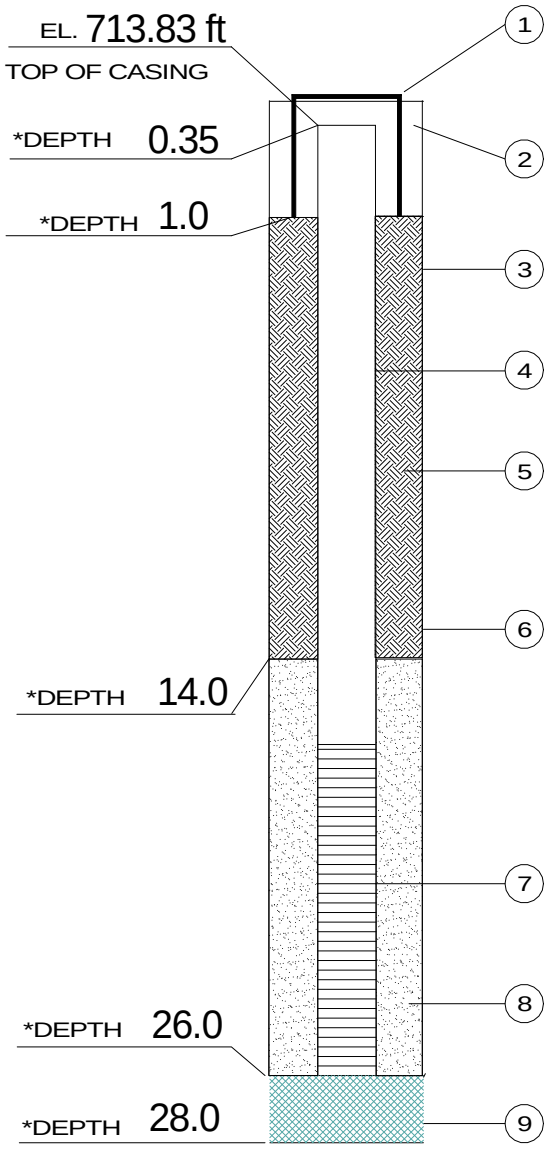
Consulting Professionals for the Earth and the Environment
110 South Downey Avenue
Indianapolis, Indiana 46219-6406

WELL CONSTRUCTION DIAGRAM

WELL NO. MMW-P-13S



*DEPTH IN FEET BELOW GROUND LEVEL

GEOLOGIST/FIELD SCIENTIST
Sarah Webb, L.P.G.

1. PROTECTIVE CASING I.D. 8.0 INCHES
2. SURFACE SEAL TYPE Concrete Cement
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4. RISER PIPE:
   a. Type Schedule 40 PVC
   b. I.D. 2.0 INCHES
   c. Length 16.0 FEET
   d. Joint Type Flush Threaded
5. BACKFILL:
   a. Type Crushed Bentonite
   b. Installation Poured
6. TYPE OF SEAL Grout Barrier
7. SCREEN:
   a. Type Schedule 40 PVC
   b. I.D. 2.0 INCHES
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DATE COMPLETED 8/31/11

DEVELOPMENT METHOD Submersible Pump

DRILLING CONTRACTOR Earth Exploration

DRILLER Doug Carlson

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Michigan Plaza / Michigan Apts.

Indianapolis, Indiana

Project Number:	M01046
Drawing File:	MMW-P-13S Construction Diagram
Date Prepared:	12/15/11
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Drn. By: ABW	Ckd. By: SEW
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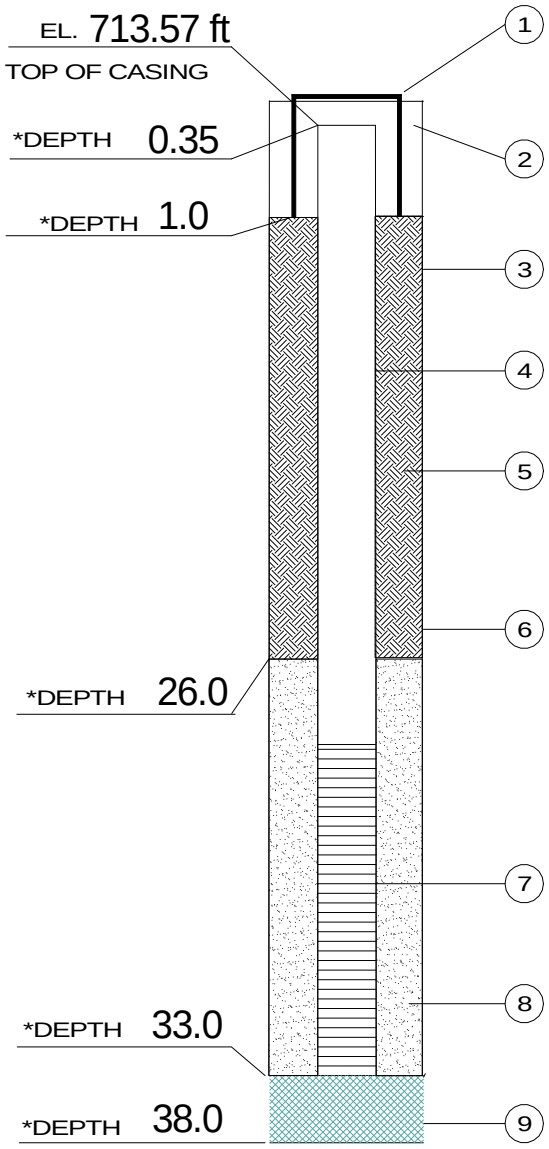
110 South Downey Avenue
Indianapolis, Indiana 46219-6406

WELL CONSTRUCTION DIAGRAM

WELL NO. MMW-P-13D



*DEPTH IN FEET BELOW GROUND LEVEL

GEOLOGIST/FIELD SCIENTIST
Sarah Webb, L.P.G.

1. PROTECTIVE CASING I.D. 8.0 INCHES
2. SURFACE SEAL TYPE Concrete Cement
3. BOREHOLE DIAMETER 2.0 INCHES
4. RISER PIPE:
   a. Type Schedule 40 PVC
   b. I.D. 2.0 INCHES
   c. Length 28.0 FEET
   d. Joint Type Flush Threaded
5. BACKFILL:
   a. Type Crushed Bentonite
   b. Installation Poured
6. TYPE OF SEAL Grout Barrier
7. SCREEN:
   a. Type Schedule 40 PVC
   b. I.D. 2.0 INCHES
   c. Slot Size 0.01 INCHES
   d. Length 5.0 FEET
8. SCREEN FILTER TYPE #4 Sand
9. BACKFILL TYPE Natural Cave / Poured Sand

DATE COMPLETED 8/31/11

DEVELOPMENT METHOD Submersible Pump

DRILLING CONTRACTOR Earth Exploration

DRILLER Doug Carlson

RIG TYPE Hollow Stem Auger

WELL CONSTRUCTION DIAGRAM

Michigan Plaza / Michigan Apts.

Indianapolis, Indiana

Project Number:	M01046
Drawing File:	MMW-P-13D Construction Diagram
Date Prepared:	12/15/11
Scale:	Not to Scale

Drn. By:	Ckd. By:	Approved By:
ABW	SEW	JAM

Mundell
Consulting Professionals for the Earth and the Environment
110 South Downey Avenue
Indianapolis, Indiana 46219-6406

APPENDIX B

Laboratory Analytical Results

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

September 09, 2011

Ms. Sarah Webb
Mundell & Associates
110 South Downey Ave.
Indianapolis, IN 46219

RE: Project: Michigan Plaza M01046
Pace Project No.: 5052200

Dear Ms. Webb:
Enclosed are the analytical results for sample(s) received by the laboratory on September 01, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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,

Tina Sayer

Tina Sayer

tina.sayer@pacelabs.com
Project Manager

Enclosures

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Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

CERTIFICATIONS

Project: Michigan Plaza M01046
Pace Project No.: 5052200

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
Wisconsin DATCP Certification #: 105-444

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois/NELAC Certification #: 100418
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana Certification #: 04076
Ohio VAP: CL0065
West Virginia Certification #: 330

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Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

SAMPLE SUMMARY

Project: Michigan Plaza M01046
Pace Project No.: 5052200

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5052200001	**SBP11D:160170**	Solid	08/31/11 10:10	09/01/11 10:55
5052200002	**SBP11D:370390**	Solid	08/31/11 10:30	09/01/11 10:55
5052200003	**SBP13D:160180**	Solid	08/31/11 15:00	09/01/11 10:55
5052200004	**SBP13D:360380**	Solid	08/31/11 16:00	09/01/11 10:55
5052200005	**SBP11D:290**	Water	08/31/11 11:30	09/01/11 10:55
5052200006	**SBP11D:390**	Water	08/31/11 11:50	09/01/11 10:55
5052200007	**SBP13D:240**	Water	08/31/11 16:20	09/01/11 10:55
5052200008	**SBP13D:320**	Water	08/31/11 16:15	09/01/11 10:55

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

SAMPLE ANALYTE COUNT

Project: Michigan Plaza M01046
Pace Project No.: 5052200

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
5052200001	**SBP11D:160170**	EPA 8260	ALA	73	PASI-I
		ASTM D2974-87	CTW	1	PASI-I
		Walkley Black	TJJ	3	PASI-G
5052200002	**SBP11D:370390**	EPA 8260	ALA	73	PASI-I
		ASTM D2974-87	CTW	1	PASI-I
		Walkley Black	TJJ	3	PASI-G
5052200003	**SBP13D:160180**	EPA 8260	ALA	73	PASI-I
		ASTM D2974-87	CTW	1	PASI-I
		Walkley Black	TJJ	3	PASI-G
5052200004	**SBP13D:360380**	EPA 8260	ALA	73	PASI-I
		ASTM D2974-87	CTW	1	PASI-I
		Walkley Black	TJJ	3	PASI-G
5052200005	**SBP11D:290**	EPA 8260	ALA	73	PASI-I
5052200006	**SBP11D:390**	EPA 8260	ALA	73	PASI-I
5052200007	**SBP13D:240**	EPA 8260	ALA	73	PASI-I
5052200008	**SBP13D:320**	EPA 8260	ALA	73	PASI-I

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Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5052200

Sample: SBP11D:160170 **Lab ID: 5052200001** Collected: 08/31/11 10:10 Received: 09/01/11 10:55 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	121	1		09/02/11 18:33	67-64-1	
Acrolein	ND	ug/kg	121	1		09/02/11 18:33	107-02-8	
Acrylonitrile	ND	ug/kg	121	1		09/02/11 18:33	107-13-1	
Benzene	ND	ug/kg	6.0	1		09/02/11 18:33	71-43-2	
Bromobenzene	ND	ug/kg	6.0	1		09/02/11 18:33	108-86-1	
Bromochloromethane	ND	ug/kg	6.0	1		09/02/11 18:33	74-97-5	
Bromodichloromethane	ND	ug/kg	6.0	1		09/02/11 18:33	75-27-4	
Bromoform	ND	ug/kg	6.0	1		09/02/11 18:33	75-25-2	
Bromomethane	ND	ug/kg	6.0	1		09/02/11 18:33	74-83-9	
2-Butanone (MEK)	ND	ug/kg	30.2	1		09/02/11 18:33	78-93-3	
n-Butylbenzene	ND	ug/kg	6.0	1		09/02/11 18:33	104-51-8	
sec-Butylbenzene	ND	ug/kg	6.0	1		09/02/11 18:33	135-98-8	
tert-Butylbenzene	ND	ug/kg	6.0	1		09/02/11 18:33	98-06-6	
Carbon disulfide	ND	ug/kg	12.1	1		09/02/11 18:33	75-15-0	
Carbon tetrachloride	ND	ug/kg	6.0	1		09/02/11 18:33	56-23-5	
Chlorobenzene	ND	ug/kg	6.0	1		09/02/11 18:33	108-90-7	
Chloroethane	ND	ug/kg	6.0	1		09/02/11 18:33	75-00-3	
Chloroform	ND	ug/kg	6.0	1		09/02/11 18:33	67-66-3	
Chloromethane	ND	ug/kg	6.0	1		09/02/11 18:33	74-87-3	
2-Chlorotoluene	ND	ug/kg	6.0	1		09/02/11 18:33	95-49-8	
4-Chlorotoluene	ND	ug/kg	6.0	1		09/02/11 18:33	106-43-4	
Dibromochloromethane	ND	ug/kg	6.0	1		09/02/11 18:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	6.0	1		09/02/11 18:33	106-93-4	
Dibromomethane	ND	ug/kg	6.0	1		09/02/11 18:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	6.0	1		09/02/11 18:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	6.0	1		09/02/11 18:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	6.0	1		09/02/11 18:33	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	121	1		09/02/11 18:33	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	6.0	1		09/02/11 18:33	75-71-8	
1,1-Dichloroethane	ND	ug/kg	6.0	1		09/02/11 18:33	75-34-3	
1,2-Dichloroethane	ND	ug/kg	6.0	1		09/02/11 18:33	107-06-2	
1,1-Dichloroethene	ND	ug/kg	6.0	1		09/02/11 18:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	6.0	1		09/02/11 18:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	6.0	1		09/02/11 18:33	156-60-5	
1,2-Dichloropropane	ND	ug/kg	6.0	1		09/02/11 18:33	78-87-5	
1,3-Dichloropropane	ND	ug/kg	6.0	1		09/02/11 18:33	142-28-9	
2,2-Dichloropropane	ND	ug/kg	6.0	1		09/02/11 18:33	594-20-7	
1,1-Dichloropropene	ND	ug/kg	6.0	1		09/02/11 18:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	6.0	1		09/02/11 18:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	6.0	1		09/02/11 18:33	10061-02-6	
Ethylbenzene	ND	ug/kg	6.0	1		09/02/11 18:33	100-41-4	
Ethyl methacrylate	ND	ug/kg	121	1		09/02/11 18:33	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	6.0	1		09/02/11 18:33	87-68-3	
n-Hexane	ND	ug/kg	6.0	1		09/02/11 18:33	110-54-3	N2
2-Hexanone	ND	ug/kg	121	1		09/02/11 18:33	591-78-6	
Iodomethane	ND	ug/kg	121	1		09/02/11 18:33	74-88-4	

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(317)875-5894

ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5052200

Sample: SBP11D:160170 **Lab ID: 5052200001** Collected: 08/31/11 10:10 Received: 09/01/11 10:55 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	6.0	1		09/02/11 18:33	98-82-8	
p-Isopropyltoluene	ND	ug/kg	6.0	1		09/02/11 18:33	99-87-6	
Methylene chloride	ND	ug/kg	24.1	1		09/02/11 18:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	30.2	1		09/02/11 18:33	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	6.0	1		09/02/11 18:33	1634-04-4	
Naphthalene	ND	ug/kg	6.0	1		09/02/11 18:33	91-20-3	
n-Propylbenzene	ND	ug/kg	6.0	1		09/02/11 18:33	103-65-1	
Styrene	ND	ug/kg	6.0	1		09/02/11 18:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.0	1		09/02/11 18:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.0	1		09/02/11 18:33	79-34-5	
Tetrachloroethene	ND	ug/kg	6.0	1		09/02/11 18:33	127-18-4	
Toluene	ND	ug/kg	6.0	1		09/02/11 18:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	6.0	1		09/02/11 18:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	6.0	1		09/02/11 18:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	6.0	1		09/02/11 18:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	6.0	1		09/02/11 18:33	79-00-5	
Trichloroethene	ND	ug/kg	6.0	1		09/02/11 18:33	79-01-6	
Trichlorofluoromethane	ND	ug/kg	6.0	1		09/02/11 18:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	6.0	1		09/02/11 18:33	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	6.0	1		09/02/11 18:33	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	6.0	1		09/02/11 18:33	108-67-8	
Vinyl acetate	ND	ug/kg	121	1		09/02/11 18:33	108-05-4	
Vinyl chloride	ND	ug/kg	6.0	1		09/02/11 18:33	75-01-4	
Xylene (Total)	ND	ug/kg	12.1	1		09/02/11 18:33	1330-20-7	
Dibromofluoromethane (S)	102	%	71-125	1		09/02/11 18:33	1868-53-7	
Toluene-d8 (S)	95	%	76-124	1		09/02/11 18:33	2037-26-5	
4-Bromofluorobenzene (S)	98	%	67-134	1		09/02/11 18:33	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**2.5**	%	0.10	1		09/02/11 12:16		
Organic Carbon Walkley Black	Analytical Method: Walkley Black							
Total Organic Carbon	**4890**	mg/kg	400	1		09/09/11 13:44	7440-44-0	
Total Organic Carbon	**4660**	mg/kg	400	1		09/09/11 13:44	7440-44-0	
Total Organic Carbon	**5110**	mg/kg	400	1		09/09/11 13:44	7440-44-0	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5052200

Sample: SBP11D:370390 **Lab ID: 5052200002** Collected: 08/31/11 10:30 Received: 09/01/11 10:55 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	83.2	1		09/02/11 19:05	67-64-1	
Acrolein	ND	ug/kg	83.2	1		09/02/11 19:05	107-02-8	
Acrylonitrile	ND	ug/kg	83.2	1		09/02/11 19:05	107-13-1	
Benzene	ND	ug/kg	4.2	1		09/02/11 19:05	71-43-2	
Bromobenzene	ND	ug/kg	4.2	1		09/02/11 19:05	108-86-1	
Bromochloromethane	ND	ug/kg	4.2	1		09/02/11 19:05	74-97-5	
Bromodichloromethane	ND	ug/kg	4.2	1		09/02/11 19:05	75-27-4	
Bromoform	ND	ug/kg	4.2	1		09/02/11 19:05	75-25-2	
Bromomethane	ND	ug/kg	4.2	1		09/02/11 19:05	74-83-9	
2-Butanone (MEK)	ND	ug/kg	20.8	1		09/02/11 19:05	78-93-3	
n-Butylbenzene	ND	ug/kg	4.2	1		09/02/11 19:05	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.2	1		09/02/11 19:05	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.2	1		09/02/11 19:05	98-06-6	
Carbon disulfide	ND	ug/kg	8.3	1		09/02/11 19:05	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.2	1		09/02/11 19:05	56-23-5	
Chlorobenzene	ND	ug/kg	4.2	1		09/02/11 19:05	108-90-7	
Chloroethane	ND	ug/kg	4.2	1		09/02/11 19:05	75-00-3	
Chloroform	ND	ug/kg	4.2	1		09/02/11 19:05	67-66-3	
Chloromethane	ND	ug/kg	4.2	1		09/02/11 19:05	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.2	1		09/02/11 19:05	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.2	1		09/02/11 19:05	106-43-4	
Dibromochloromethane	ND	ug/kg	4.2	1		09/02/11 19:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.2	1		09/02/11 19:05	106-93-4	
Dibromomethane	ND	ug/kg	4.2	1		09/02/11 19:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.2	1		09/02/11 19:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.2	1		09/02/11 19:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.2	1		09/02/11 19:05	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	83.2	1		09/02/11 19:05	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.2	1		09/02/11 19:05	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.2	1		09/02/11 19:05	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.2	1		09/02/11 19:05	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.2	1		09/02/11 19:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.2	1		09/02/11 19:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.2	1		09/02/11 19:05	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.2	1		09/02/11 19:05	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.2	1		09/02/11 19:05	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.2	1		09/02/11 19:05	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.2	1		09/02/11 19:05	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.2	1		09/02/11 19:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.2	1		09/02/11 19:05	10061-02-6	
Ethylbenzene	ND	ug/kg	4.2	1		09/02/11 19:05	100-41-4	
Ethyl methacrylate	ND	ug/kg	83.2	1		09/02/11 19:05	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.2	1		09/02/11 19:05	87-68-3	
n-Hexane	ND	ug/kg	4.2	1		09/02/11 19:05	110-54-3	N2
2-Hexanone	ND	ug/kg	83.2	1		09/02/11 19:05	591-78-6	
Iodomethane	ND	ug/kg	83.2	1		09/02/11 19:05	74-88-4	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5052200

Sample: SBP11D:370390 **Lab ID: 5052200002** Collected: 08/31/11 10:30 Received: 09/01/11 10:55 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		09/02/11 19:05	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.2	1		09/02/11 19:05	99-87-6	
Methylene chloride	ND	ug/kg	16.6	1		09/02/11 19:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	20.8	1		09/02/11 19:05	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.2	1		09/02/11 19:05	1634-04-4	
Naphthalene	ND	ug/kg	4.2	1		09/02/11 19:05	91-20-3	
n-Propylbenzene	ND	ug/kg	4.2	1		09/02/11 19:05	103-65-1	
Styrene	ND	ug/kg	4.2	1		09/02/11 19:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.2	1		09/02/11 19:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.2	1		09/02/11 19:05	79-34-5	
Tetrachloroethene	ND	ug/kg	4.2	1		09/02/11 19:05	127-18-4	
Toluene	ND	ug/kg	4.2	1		09/02/11 19:05	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.2	1		09/02/11 19:05	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.2	1		09/02/11 19:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.2	1		09/02/11 19:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.2	1		09/02/11 19:05	79-00-5	
Trichloroethene	ND	ug/kg	4.2	1		09/02/11 19:05	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.2	1		09/02/11 19:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.2	1		09/02/11 19:05	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.2	1		09/02/11 19:05	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.2	1		09/02/11 19:05	108-67-8	
Vinyl acetate	ND	ug/kg	83.2	1		09/02/11 19:05	108-05-4	
Vinyl chloride	ND	ug/kg	4.2	1		09/02/11 19:05	75-01-4	
Xylene (Total)	ND	ug/kg	8.3	1		09/02/11 19:05	1330-20-7	
Dibromofluoromethane (S)	102	%	71-125	1		09/02/11 19:05	1868-53-7	
Toluene-d8 (S)	97	%	76-124	1		09/02/11 19:05	2037-26-5	
4-Bromofluorobenzene (S)	98	%	67-134	1		09/02/11 19:05	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**7.9**	%	0.10	1		09/02/11 12:16		
Organic Carbon Walkley Black	Analytical Method: Walkley Black							
Total Organic Carbon	**7170**	mg/kg	400	1		09/09/11 13:44	7440-44-0	
Total Organic Carbon	**7290**	mg/kg	400	1		09/09/11 13:44	7440-44-0	
Total Organic Carbon	**7170**	mg/kg	400	1		09/09/11 13:44	7440-44-0	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5052200

Sample: SBP13D:160180 **Lab ID: 5052200003** Collected: 08/31/11 15:00 Received: 09/01/11 10:55 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	110	1		09/02/11 19:37	67-64-1	
Acrolein	ND	ug/kg	110	1		09/02/11 19:37	107-02-8	
Acrylonitrile	ND	ug/kg	110	1		09/02/11 19:37	107-13-1	
Benzene	ND	ug/kg	5.5	1		09/02/11 19:37	71-43-2	
Bromobenzene	ND	ug/kg	5.5	1		09/02/11 19:37	108-86-1	
Bromochloromethane	ND	ug/kg	5.5	1		09/02/11 19:37	74-97-5	
Bromodichloromethane	ND	ug/kg	5.5	1		09/02/11 19:37	75-27-4	
Bromoform	ND	ug/kg	5.5	1		09/02/11 19:37	75-25-2	
Bromomethane	ND	ug/kg	5.5	1		09/02/11 19:37	74-83-9	
2-Butanone (MEK)	ND	ug/kg	27.4	1		09/02/11 19:37	78-93-3	
n-Butylbenzene	ND	ug/kg	5.5	1		09/02/11 19:37	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.5	1		09/02/11 19:37	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.5	1		09/02/11 19:37	98-06-6	
Carbon disulfide	ND	ug/kg	11.0	1		09/02/11 19:37	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.5	1		09/02/11 19:37	56-23-5	
Chlorobenzene	ND	ug/kg	5.5	1		09/02/11 19:37	108-90-7	
Chloroethane	ND	ug/kg	5.5	1		09/02/11 19:37	75-00-3	
Chloroform	ND	ug/kg	5.5	1		09/02/11 19:37	67-66-3	
Chloromethane	ND	ug/kg	5.5	1		09/02/11 19:37	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.5	1		09/02/11 19:37	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.5	1		09/02/11 19:37	106-43-4	
Dibromochloromethane	ND	ug/kg	5.5	1		09/02/11 19:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.5	1		09/02/11 19:37	106-93-4	
Dibromomethane	ND	ug/kg	5.5	1		09/02/11 19:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.5	1		09/02/11 19:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.5	1		09/02/11 19:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.5	1		09/02/11 19:37	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	110	1		09/02/11 19:37	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.5	1		09/02/11 19:37	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.5	1		09/02/11 19:37	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.5	1		09/02/11 19:37	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.5	1		09/02/11 19:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.5	1		09/02/11 19:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.5	1		09/02/11 19:37	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.5	1		09/02/11 19:37	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.5	1		09/02/11 19:37	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.5	1		09/02/11 19:37	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.5	1		09/02/11 19:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.5	1		09/02/11 19:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.5	1		09/02/11 19:37	10061-02-6	
Ethylbenzene	ND	ug/kg	5.5	1		09/02/11 19:37	100-41-4	
Ethyl methacrylate	ND	ug/kg	110	1		09/02/11 19:37	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.5	1		09/02/11 19:37	87-68-3	
n-Hexane	ND	ug/kg	5.5	1		09/02/11 19:37	110-54-3	N2
2-Hexanone	ND	ug/kg	110	1		09/02/11 19:37	591-78-6	
Iodomethane	ND	ug/kg	110	1		09/02/11 19:37	74-88-4	

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(317)875-5894

ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5052200

Sample: SBP13D:160180 **Lab ID: 5052200003** Collected: 08/31/11 15:00 Received: 09/01/11 10:55 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	5.5	1		09/02/11 19:37	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.5	1		09/02/11 19:37	99-87-6	
Methylene chloride	ND	ug/kg	21.9	1		09/02/11 19:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	27.4	1		09/02/11 19:37	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.5	1		09/02/11 19:37	1634-04-4	
Naphthalene	ND	ug/kg	5.5	1		09/02/11 19:37	91-20-3	
n-Propylbenzene	ND	ug/kg	5.5	1		09/02/11 19:37	103-65-1	
Styrene	ND	ug/kg	5.5	1		09/02/11 19:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.5	1		09/02/11 19:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.5	1		09/02/11 19:37	79-34-5	
Tetrachloroethene	ND	ug/kg	5.5	1		09/02/11 19:37	127-18-4	
Toluene	ND	ug/kg	5.5	1		09/02/11 19:37	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.5	1		09/02/11 19:37	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.5	1		09/02/11 19:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.5	1		09/02/11 19:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.5	1		09/02/11 19:37	79-00-5	
Trichloroethene	ND	ug/kg	5.5	1		09/02/11 19:37	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.5	1		09/02/11 19:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.5	1		09/02/11 19:37	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.5	1		09/02/11 19:37	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.5	1		09/02/11 19:37	108-67-8	
Vinyl acetate	ND	ug/kg	110	1		09/02/11 19:37	108-05-4	
Vinyl chloride	ND	ug/kg	5.5	1		09/02/11 19:37	75-01-4	
Xylene (Total)	ND	ug/kg	11.0	1		09/02/11 19:37	1330-20-7	
Dibromofluoromethane (S)	103	%	71-125	1		09/02/11 19:37	1868-53-7	
Toluene-d8 (S)	95	%	76-124	1		09/02/11 19:37	2037-26-5	
4-Bromofluorobenzene (S)	99	%	67-134	1		09/02/11 19:37	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**2.5**	%	0.10	1		09/02/11 12:17		
Organic Carbon Walkley Black	Analytical Method: Walkley Black							
Total Organic Carbon	**5690**	mg/kg	400	1		09/09/11 13:44	7440-44-0	
Total Organic Carbon	**5690**	mg/kg	400	1		09/09/11 13:44	7440-44-0	
Total Organic Carbon	**5800**	mg/kg	400	1		09/09/11 13:44	7440-44-0	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5052200

Sample: SBP13D:360380 **Lab ID: 5052200004** Collected: 08/31/11 16:00 Received: 09/01/11 10:55 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	71.1	1		09/02/11 20:09	67-64-1	
Acrolein	ND	ug/kg	71.1	1		09/02/11 20:09	107-02-8	
Acrylonitrile	ND	ug/kg	71.1	1		09/02/11 20:09	107-13-1	
Benzene	ND	ug/kg	3.6	1		09/02/11 20:09	71-43-2	
Bromobenzene	ND	ug/kg	3.6	1		09/02/11 20:09	108-86-1	
Bromochloromethane	ND	ug/kg	3.6	1		09/02/11 20:09	74-97-5	
Bromodichloromethane	ND	ug/kg	3.6	1		09/02/11 20:09	75-27-4	
Bromoform	ND	ug/kg	3.6	1		09/02/11 20:09	75-25-2	
Bromomethane	ND	ug/kg	3.6	1		09/02/11 20:09	74-83-9	
2-Butanone (MEK)	ND	ug/kg	17.8	1		09/02/11 20:09	78-93-3	
n-Butylbenzene	ND	ug/kg	3.6	1		09/02/11 20:09	104-51-8	
sec-Butylbenzene	ND	ug/kg	3.6	1		09/02/11 20:09	135-98-8	
tert-Butylbenzene	ND	ug/kg	3.6	1		09/02/11 20:09	98-06-6	
Carbon disulfide	ND	ug/kg	7.1	1		09/02/11 20:09	75-15-0	
Carbon tetrachloride	ND	ug/kg	3.6	1		09/02/11 20:09	56-23-5	
Chlorobenzene	ND	ug/kg	3.6	1		09/02/11 20:09	108-90-7	
Chloroethane	ND	ug/kg	3.6	1		09/02/11 20:09	75-00-3	
Chloroform	ND	ug/kg	3.6	1		09/02/11 20:09	67-66-3	
Chloromethane	ND	ug/kg	3.6	1		09/02/11 20:09	74-87-3	
2-Chlorotoluene	ND	ug/kg	3.6	1		09/02/11 20:09	95-49-8	
4-Chlorotoluene	ND	ug/kg	3.6	1		09/02/11 20:09	106-43-4	
Dibromochloromethane	ND	ug/kg	3.6	1		09/02/11 20:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.6	1		09/02/11 20:09	106-93-4	
Dibromomethane	ND	ug/kg	3.6	1		09/02/11 20:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.6	1		09/02/11 20:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.6	1		09/02/11 20:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.6	1		09/02/11 20:09	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	71.1	1		09/02/11 20:09	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	3.6	1		09/02/11 20:09	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.6	1		09/02/11 20:09	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.6	1		09/02/11 20:09	107-06-2	
1,1-Dichloroethene	ND	ug/kg	3.6	1		09/02/11 20:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	3.6	1		09/02/11 20:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.6	1		09/02/11 20:09	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.6	1		09/02/11 20:09	78-87-5	
1,3-Dichloropropane	ND	ug/kg	3.6	1		09/02/11 20:09	142-28-9	
2,2-Dichloropropane	ND	ug/kg	3.6	1		09/02/11 20:09	594-20-7	
1,1-Dichloropropene	ND	ug/kg	3.6	1		09/02/11 20:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	3.6	1		09/02/11 20:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.6	1		09/02/11 20:09	10061-02-6	
Ethylbenzene	ND	ug/kg	3.6	1		09/02/11 20:09	100-41-4	
Ethyl methacrylate	ND	ug/kg	71.1	1		09/02/11 20:09	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	3.6	1		09/02/11 20:09	87-68-3	
n-Hexane	ND	ug/kg	3.6	1		09/02/11 20:09	110-54-3	N2
2-Hexanone	ND	ug/kg	71.1	1		09/02/11 20:09	591-78-6	
Iodomethane	ND	ug/kg	71.1	1		09/02/11 20:09	74-88-4	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5052200

Sample: SBP13D:360380 **Lab ID: 5052200004** Collected: 08/31/11 16:00 Received: 09/01/11 10:55 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	3.6	1		09/02/11 20:09	98-82-8	
p-Isopropyltoluene	ND	ug/kg	3.6	1		09/02/11 20:09	99-87-6	
Methylene chloride	ND	ug/kg	14.2	1		09/02/11 20:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	17.8	1		09/02/11 20:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	3.6	1		09/02/11 20:09	1634-04-4	
Naphthalene	ND	ug/kg	3.6	1		09/02/11 20:09	91-20-3	
n-Propylbenzene	ND	ug/kg	3.6	1		09/02/11 20:09	103-65-1	
Styrene	ND	ug/kg	3.6	1		09/02/11 20:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.6	1		09/02/11 20:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.6	1		09/02/11 20:09	79-34-5	
Tetrachloroethene	ND	ug/kg	3.6	1		09/02/11 20:09	127-18-4	
Toluene	ND	ug/kg	3.6	1		09/02/11 20:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	3.6	1		09/02/11 20:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	3.6	1		09/02/11 20:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	3.6	1		09/02/11 20:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.6	1		09/02/11 20:09	79-00-5	
Trichloroethene	ND	ug/kg	3.6	1		09/02/11 20:09	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.6	1		09/02/11 20:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	3.6	1		09/02/11 20:09	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	3.6	1		09/02/11 20:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	3.6	1		09/02/11 20:09	108-67-8	
Vinyl acetate	ND	ug/kg	71.1	1		09/02/11 20:09	108-05-4	
Vinyl chloride	ND	ug/kg	3.6	1		09/02/11 20:09	75-01-4	
Xylene (Total)	ND	ug/kg	7.1	1		09/02/11 20:09	1330-20-7	
Dibromofluoromethane (S)	103	%	71-125	1		09/02/11 20:09	1868-53-7	
Toluene-d8 (S)	95	%	76-124	1		09/02/11 20:09	2037-26-5	
4-Bromofluorobenzene (S)	99	%	67-134	1		09/02/11 20:09	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**8.3**	%	0.10	1		09/02/11 12:17		
Organic Carbon Walkley Black	Analytical Method: Walkley Black							
Total Organic Carbon	**7800**	mg/kg	400	1		09/09/11 13:44	7440-44-0	
Total Organic Carbon	**7690**	mg/kg	400	1		09/09/11 13:44	7440-44-0	
Total Organic Carbon	**7860**	mg/kg	400	1		09/09/11 13:44	7440-44-0	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5052200

Sample: SBP11D:290 **Lab ID: 5052200005** Collected: 08/31/11 11:30 Received: 09/01/11 10:55 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		09/02/11 20:41	67-64-1	
Acrolein	ND	ug/L	50.0	1		09/02/11 20:41	107-02-8	
Acrylonitrile	ND	ug/L	100	1		09/02/11 20:41	107-13-1	
Benzene	ND	ug/L	5.0	1		09/02/11 20:41	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		09/02/11 20:41	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		09/02/11 20:41	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		09/02/11 20:41	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/02/11 20:41	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/02/11 20:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		09/02/11 20:41	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		09/02/11 20:41	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		09/02/11 20:41	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		09/02/11 20:41	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		09/02/11 20:41	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/02/11 20:41	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/02/11 20:41	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/02/11 20:41	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/02/11 20:41	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/02/11 20:41	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		09/02/11 20:41	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		09/02/11 20:41	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		09/02/11 20:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		09/02/11 20:41	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		09/02/11 20:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/02/11 20:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		09/02/11 20:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/02/11 20:41	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		09/02/11 20:41	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		09/02/11 20:41	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/02/11 20:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/02/11 20:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/02/11 20:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		09/02/11 20:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/02/11 20:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/02/11 20:41	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		09/02/11 20:41	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		09/02/11 20:41	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		09/02/11 20:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/02/11 20:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/02/11 20:41	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		09/02/11 20:41	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		09/02/11 20:41	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		09/02/11 20:41	87-68-3	
n-Hexane	ND	ug/L	5.0	1		09/02/11 20:41	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		09/02/11 20:41	591-78-6	
Iodomethane	ND	ug/L	10.0	1		09/02/11 20:41	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		09/02/11 20:41	98-82-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5052200

Sample: SBP11D:290 **Lab ID: 5052200005** Collected: 08/31/11 11:30 Received: 09/01/11 10:55 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		09/02/11 20:41	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		09/02/11 20:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		09/02/11 20:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		09/02/11 20:41	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		09/02/11 20:41	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		09/02/11 20:41	103-65-1	
Styrene	ND	ug/L	5.0	1		09/02/11 20:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		09/02/11 20:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/02/11 20:41	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/02/11 20:41	127-18-4	
Toluene	ND	ug/L	5.0	1		09/02/11 20:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		09/02/11 20:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		09/02/11 20:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/02/11 20:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/02/11 20:41	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		09/02/11 20:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/02/11 20:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		09/02/11 20:41	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		09/02/11 20:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		09/02/11 20:41	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		09/02/11 20:41	108-05-4	
Vinyl chloride	**47.5**	ug/L	2.0	1		09/02/11 20:41	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		09/02/11 20:41	1330-20-7	
Dibromofluoromethane (S)	99	%	83-123	1		09/02/11 20:41	1868-53-7	
4-Bromofluorobenzene (S)	99	%	72-125	1		09/02/11 20:41	460-00-4	
Toluene-d8 (S)	95	%	81-114	1		09/02/11 20:41	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5052200

Sample: SBP11D:390 **Lab ID: 5052200006** Collected: 08/31/11 11:50 Received: 09/01/11 10:55 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		09/02/11 21:13	67-64-1	
Acrolein	ND	ug/L	50.0	1		09/02/11 21:13	107-02-8	
Acrylonitrile	ND	ug/L	100	1		09/02/11 21:13	107-13-1	
Benzene	ND	ug/L	5.0	1		09/02/11 21:13	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		09/02/11 21:13	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		09/02/11 21:13	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		09/02/11 21:13	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/02/11 21:13	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/02/11 21:13	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		09/02/11 21:13	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		09/02/11 21:13	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		09/02/11 21:13	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		09/02/11 21:13	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		09/02/11 21:13	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/02/11 21:13	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/02/11 21:13	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/02/11 21:13	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/02/11 21:13	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/02/11 21:13	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		09/02/11 21:13	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		09/02/11 21:13	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		09/02/11 21:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		09/02/11 21:13	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		09/02/11 21:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/02/11 21:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		09/02/11 21:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/02/11 21:13	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		09/02/11 21:13	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		09/02/11 21:13	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/02/11 21:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/02/11 21:13	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/02/11 21:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		09/02/11 21:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/02/11 21:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/02/11 21:13	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		09/02/11 21:13	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		09/02/11 21:13	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		09/02/11 21:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/02/11 21:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/02/11 21:13	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		09/02/11 21:13	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		09/02/11 21:13	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		09/02/11 21:13	87-68-3	
n-Hexane	ND	ug/L	5.0	1		09/02/11 21:13	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		09/02/11 21:13	591-78-6	
Iodomethane	ND	ug/L	10.0	1		09/02/11 21:13	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		09/02/11 21:13	98-82-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5052200

Sample: SBP11D:390 **Lab ID: 5052200006** Collected: 08/31/11 11:50 Received: 09/01/11 10:55 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		09/02/11 21:13	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		09/02/11 21:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		09/02/11 21:13	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		09/02/11 21:13	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		09/02/11 21:13	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		09/02/11 21:13	103-65-1	
Styrene	ND	ug/L	5.0	1		09/02/11 21:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		09/02/11 21:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/02/11 21:13	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/02/11 21:13	127-18-4	
Toluene	ND	ug/L	5.0	1		09/02/11 21:13	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		09/02/11 21:13	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		09/02/11 21:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/02/11 21:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/02/11 21:13	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		09/02/11 21:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/02/11 21:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		09/02/11 21:13	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		09/02/11 21:13	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		09/02/11 21:13	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		09/02/11 21:13	108-05-4	
Vinyl chloride	**36.1**	ug/L	2.0	1		09/02/11 21:13	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		09/02/11 21:13	1330-20-7	
Dibromofluoromethane (S)	101	%	83-123	1		09/02/11 21:13	1868-53-7	
4-Bromofluorobenzene (S)	99	%	72-125	1		09/02/11 21:13	460-00-4	
Toluene-d8 (S)	96	%	81-114	1		09/02/11 21:13	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5052200

Sample: SBP13D:240 **Lab ID: 5052200007** Collected: 08/31/11 16:20 Received: 09/01/11 10:55 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		09/02/11 21:45	67-64-1	
Acrolein	ND	ug/L	50.0	1		09/02/11 21:45	107-02-8	
Acrylonitrile	ND	ug/L	100	1		09/02/11 21:45	107-13-1	
Benzene	ND	ug/L	5.0	1		09/02/11 21:45	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		09/02/11 21:45	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		09/02/11 21:45	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		09/02/11 21:45	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/02/11 21:45	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/02/11 21:45	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		09/02/11 21:45	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		09/02/11 21:45	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		09/02/11 21:45	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		09/02/11 21:45	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		09/02/11 21:45	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/02/11 21:45	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/02/11 21:45	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/02/11 21:45	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/02/11 21:45	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/02/11 21:45	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		09/02/11 21:45	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		09/02/11 21:45	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		09/02/11 21:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		09/02/11 21:45	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		09/02/11 21:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/02/11 21:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		09/02/11 21:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/02/11 21:45	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		09/02/11 21:45	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		09/02/11 21:45	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/02/11 21:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/02/11 21:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/02/11 21:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		09/02/11 21:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/02/11 21:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/02/11 21:45	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		09/02/11 21:45	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		09/02/11 21:45	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		09/02/11 21:45	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/02/11 21:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/02/11 21:45	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		09/02/11 21:45	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		09/02/11 21:45	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		09/02/11 21:45	87-68-3	
n-Hexane	ND	ug/L	5.0	1		09/02/11 21:45	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		09/02/11 21:45	591-78-6	
Iodomethane	ND	ug/L	10.0	1		09/02/11 21:45	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		09/02/11 21:45	98-82-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5052200

Sample: SBP13D:240 **Lab ID: 5052200007** Collected: 08/31/11 16:20 Received: 09/01/11 10:55 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		09/02/11 21:45	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		09/02/11 21:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		09/02/11 21:45	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		09/02/11 21:45	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		09/02/11 21:45	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		09/02/11 21:45	103-65-1	
Styrene	ND	ug/L	5.0	1		09/02/11 21:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		09/02/11 21:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/02/11 21:45	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/02/11 21:45	127-18-4	
Toluene	ND	ug/L	5.0	1		09/02/11 21:45	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		09/02/11 21:45	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		09/02/11 21:45	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/02/11 21:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/02/11 21:45	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		09/02/11 21:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/02/11 21:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		09/02/11 21:45	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		09/02/11 21:45	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		09/02/11 21:45	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		09/02/11 21:45	108-05-4	
Vinyl chloride	**86.8**	ug/L	2.0	1		09/02/11 21:45	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		09/02/11 21:45	1330-20-7	
Dibromofluoromethane (S)	100	%	83-123	1		09/02/11 21:45	1868-53-7	
4-Bromofluorobenzene (S)	99	%	72-125	1		09/02/11 21:45	460-00-4	
Toluene-d8 (S)	97	%	81-114	1		09/02/11 21:45	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5052200

Sample: SBP13D:320 **Lab ID: 5052200008** Collected: 08/31/11 16:15 Received: 09/01/11 10:55 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		09/02/11 22:17	67-64-1	
Acrolein	ND	ug/L	50.0	1		09/02/11 22:17	107-02-8	
Acrylonitrile	ND	ug/L	100	1		09/02/11 22:17	107-13-1	
Benzene	ND	ug/L	5.0	1		09/02/11 22:17	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		09/02/11 22:17	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		09/02/11 22:17	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		09/02/11 22:17	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/02/11 22:17	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/02/11 22:17	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		09/02/11 22:17	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		09/02/11 22:17	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		09/02/11 22:17	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		09/02/11 22:17	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		09/02/11 22:17	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/02/11 22:17	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/02/11 22:17	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/02/11 22:17	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/02/11 22:17	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/02/11 22:17	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		09/02/11 22:17	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		09/02/11 22:17	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		09/02/11 22:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		09/02/11 22:17	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		09/02/11 22:17	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/02/11 22:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		09/02/11 22:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/02/11 22:17	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		09/02/11 22:17	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		09/02/11 22:17	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/02/11 22:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/02/11 22:17	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/02/11 22:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		09/02/11 22:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/02/11 22:17	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/02/11 22:17	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		09/02/11 22:17	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		09/02/11 22:17	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		09/02/11 22:17	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/02/11 22:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/02/11 22:17	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		09/02/11 22:17	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		09/02/11 22:17	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		09/02/11 22:17	87-68-3	
n-Hexane	ND	ug/L	5.0	1		09/02/11 22:17	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		09/02/11 22:17	591-78-6	
Iodomethane	ND	ug/L	10.0	1		09/02/11 22:17	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		09/02/11 22:17	98-82-8	

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(317)875-5894

ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5052200

Sample: SBP13D:320 **Lab ID: 5052200008** Collected: 08/31/11 16:15 Received: 09/01/11 10:55 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		09/02/11 22:17	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		09/02/11 22:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		09/02/11 22:17	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		09/02/11 22:17	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		09/02/11 22:17	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		09/02/11 22:17	103-65-1	
Styrene	ND	ug/L	5.0	1		09/02/11 22:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		09/02/11 22:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/02/11 22:17	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/02/11 22:17	127-18-4	
Toluene	ND	ug/L	5.0	1		09/02/11 22:17	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		09/02/11 22:17	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		09/02/11 22:17	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/02/11 22:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/02/11 22:17	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		09/02/11 22:17	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/02/11 22:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		09/02/11 22:17	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		09/02/11 22:17	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		09/02/11 22:17	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		09/02/11 22:17	108-05-4	
Vinyl chloride	**47.9**	ug/L	2.0	1		09/02/11 22:17	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		09/02/11 22:17	1330-20-7	
Dibromofluoromethane (S)	99	%	83-123	1		09/02/11 22:17	1868-53-7	
4-Bromofluorobenzene (S)	98	%	72-125	1		09/02/11 22:17	460-00-4	
Toluene-d8 (S)	95	%	81-114	1		09/02/11 22:17	2037-26-5	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5052200

QC Batch: MSV/35405 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5052200005, 5052200006, 5052200007, 5052200008

METHOD BLANK: 618213 Matrix: Water
Associated Lab Samples: 5052200005, 5052200006, 5052200007, 5052200008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	09/02/11 13:15	
1,1,1-Trichloroethane	ug/L	ND	5.0	09/02/11 13:15	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	09/02/11 13:15	
1,1,2-Trichloroethane	ug/L	ND	5.0	09/02/11 13:15	
1,1-Dichloroethane	ug/L	ND	5.0	09/02/11 13:15	
1,1-Dichloroethene	ug/L	ND	5.0	09/02/11 13:15	
1,1-Dichloropropene	ug/L	ND	5.0	09/02/11 13:15	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	09/02/11 13:15	
1,2,3-Trichloropropane	ug/L	ND	5.0	09/02/11 13:15	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	09/02/11 13:15	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	09/02/11 13:15	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	09/02/11 13:15	
1,2-Dichlorobenzene	ug/L	ND	5.0	09/02/11 13:15	
1,2-Dichloroethane	ug/L	ND	5.0	09/02/11 13:15	
1,2-Dichloropropane	ug/L	ND	5.0	09/02/11 13:15	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	09/02/11 13:15	
1,3-Dichlorobenzene	ug/L	ND	5.0	09/02/11 13:15	
1,3-Dichloropropane	ug/L	ND	5.0	09/02/11 13:15	
1,4-Dichlorobenzene	ug/L	ND	5.0	09/02/11 13:15	
2,2-Dichloropropane	ug/L	ND	5.0	09/02/11 13:15	
2-Butanone (MEK)	ug/L	ND	25.0	09/02/11 13:15	
2-Chlorotoluene	ug/L	ND	5.0	09/02/11 13:15	
2-Hexanone	ug/L	ND	25.0	09/02/11 13:15	
4-Chlorotoluene	ug/L	ND	5.0	09/02/11 13:15	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	09/02/11 13:15	
Acetone	ug/L	ND	100	09/02/11 13:15	
Acrolein	ug/L	ND	50.0	09/02/11 13:15	
Acrylonitrile	ug/L	ND	100	09/02/11 13:15	
Benzene	ug/L	ND	5.0	09/02/11 13:15	
Bromobenzene	ug/L	ND	5.0	09/02/11 13:15	
Bromochloromethane	ug/L	ND	5.0	09/02/11 13:15	
Bromodichloromethane	ug/L	ND	5.0	09/02/11 13:15	
Bromoform	ug/L	ND	5.0	09/02/11 13:15	
Bromomethane	ug/L	ND	5.0	09/02/11 13:15	
Carbon disulfide	ug/L	ND	10.0	09/02/11 13:15	
Carbon tetrachloride	ug/L	ND	5.0	09/02/11 13:15	
Chlorobenzene	ug/L	ND	5.0	09/02/11 13:15	
Chloroethane	ug/L	ND	5.0	09/02/11 13:15	
Chloroform	ug/L	ND	5.0	09/02/11 13:15	
Chloromethane	ug/L	ND	5.0	09/02/11 13:15	
cis-1,2-Dichloroethene	ug/L	ND	5.0	09/02/11 13:15	
cis-1,3-Dichloropropene	ug/L	ND	5.0	09/02/11 13:15	
Dibromochloromethane	ug/L	ND	5.0	09/02/11 13:15	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5052200

METHOD BLANK: 618213 Matrix: Water

Associated Lab Samples: 5052200005, 5052200006, 5052200007, 5052200008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	5.0	09/02/11 13:15	
Dichlorodifluoromethane	ug/L	ND	5.0	09/02/11 13:15	
Ethyl methacrylate	ug/L	ND	100	09/02/11 13:15	
Ethylbenzene	ug/L	ND	5.0	09/02/11 13:15	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	09/02/11 13:15	
Iodomethane	ug/L	ND	10.0	09/02/11 13:15	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	09/02/11 13:15	
Methyl-tert-butyl ether	ug/L	ND	4.0	09/02/11 13:15	
Methylene chloride	ug/L	ND	5.0	09/02/11 13:15	
n-Butylbenzene	ug/L	ND	5.0	09/02/11 13:15	
n-Hexane	ug/L	ND	5.0	09/02/11 13:15	N2
n-Propylbenzene	ug/L	ND	5.0	09/02/11 13:15	
Naphthalene	ug/L	ND	5.0	09/02/11 13:15	
p-Isopropyltoluene	ug/L	ND	5.0	09/02/11 13:15	
sec-Butylbenzene	ug/L	ND	5.0	09/02/11 13:15	
Styrene	ug/L	ND	5.0	09/02/11 13:15	
tert-Butylbenzene	ug/L	ND	5.0	09/02/11 13:15	
Tetrachloroethene	ug/L	ND	5.0	09/02/11 13:15	
Toluene	ug/L	ND	5.0	09/02/11 13:15	
trans-1,2-Dichloroethene	ug/L	ND	5.0	09/02/11 13:15	
trans-1,3-Dichloropropene	ug/L	ND	5.0	09/02/11 13:15	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	09/02/11 13:15	
Trichloroethene	ug/L	ND	5.0	09/02/11 13:15	
Trichlorofluoromethane	ug/L	ND	5.0	09/02/11 13:15	
Vinyl acetate	ug/L	ND	50.0	09/02/11 13:15	
Vinyl chloride	ug/L	ND	2.0	09/02/11 13:15	
Xylene (Total)	ug/L	ND	10.0	09/02/11 13:15	
4-Bromofluorobenzene (S)	%	99	72-125	09/02/11 13:15	
Dibromofluoromethane (S)	%	102	83-123	09/02/11 13:15	
Toluene-d8 (S)	%	95	81-114	09/02/11 13:15	

LABORATORY CONTROL SAMPLE: 618214

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.1	104	69-122	
1,1,1-Trichloroethane	ug/L	50	48.6	97	69-126	
1,1,2,2-Tetrachloroethane	ug/L	50	46.2	92	68-134	
1,1,2-Trichloroethane	ug/L	50	48.3	97	77-129	
1,1-Dichloroethane	ug/L	50	46.2	92	70-127	
1,1-Dichloroethene	ug/L	50	52.6	105	75-145	
1,1-Dichloropropene	ug/L	50	48.7	97	75-126	
1,2,3-Trichlorobenzene	ug/L	50	50.3	101	63-130	
1,2,3-Trichloropropane	ug/L	100	74.5	75	45-121	
1,2,4-Trichlorobenzene	ug/L	50	50.8	102	64-122	
1,2,4-Trimethylbenzene	ug/L	50	46.8	94	68-129	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5052200

LABORATORY CONTROL SAMPLE: 618214

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	50	47.2	94	77-123	
1,2-Dichlorobenzene	ug/L	50	49.1	98	74-123	
1,2-Dichloroethane	ug/L	50	50.5	101	71-127	
1,2-Dichloropropane	ug/L	50	45.4	91	75-126	
1,3,5-Trimethylbenzene	ug/L	50	48.1	96	69-129	
1,3-Dichlorobenzene	ug/L	50	49.7	99	76-123	
1,3-Dichloropropane	ug/L	50	46.1	92	77-126	
1,4-Dichlorobenzene	ug/L	50	49.1	98	77-121	
2,2-Dichloropropane	ug/L	50	44.2	88	45-138	
2-Butanone (MEK)	ug/L	250	219	88	42-177	
2-Chlorotoluene	ug/L	50	47.7	95	74-129	
2-Hexanone	ug/L	250	214	86	57-162	
4-Chlorotoluene	ug/L	50	49.7	99	70-125	
4-Methyl-2-pentanone (MIBK)	ug/L	250	214	86	64-135	
Acetone	ug/L	250	248	99	10-200	
Acrolein	ug/L	1000	1620	162	10-200	
Acrylonitrile	ug/L	1000	942	94	59-144	
Benzene	ug/L	50	47.1	94	76-123	
Bromobenzene	ug/L	50	48.3	97	67-130	
Bromochloromethane	ug/L	50	47.9	96	58-153	
Bromodichloromethane	ug/L	50	48.4	97	71-124	
Bromoform	ug/L	50	47.6	95	64-116	
Bromomethane	ug/L	50	47.8	96	23-197	
Carbon disulfide	ug/L	100	103	103	55-146	
Carbon tetrachloride	ug/L	50	50.0	100	65-125	
Chlorobenzene	ug/L	50	50.6	101	78-120	
Chloroethane	ug/L	50	51.8	104	56-163	
Chloroform	ug/L	50	47.8	96	73-122	
Chloromethane	ug/L	50	49.1	98	46-146	
cis-1,2-Dichloroethene	ug/L	50	48.0	96	79-129	
cis-1,3-Dichloropropene	ug/L	50	44.3	89	66-123	
Dibromochloromethane	ug/L	50	47.0	94	70-123	
Dibromomethane	ug/L	50	48.6	97	73-123	
Dichlorodifluoromethane	ug/L	50	67.3	135	19-200	
Ethyl methacrylate	ug/L	200	180	90	70-127	
Ethylbenzene	ug/L	50	50.3	101	75-120	
Hexachloro-1,3-butadiene	ug/L	50	51.9	104	64-131	
Iodomethane	ug/L	100	85.9	86	16-181	
Isopropylbenzene (Cumene)	ug/L	50	52.0	104	73-123	
Methyl-tert-butyl ether	ug/L	100	96.4	96	66-128	
Methylene chloride	ug/L	50	45.1	90	61-138	
n-Butylbenzene	ug/L	50	47.8	96	69-130	
n-Hexane	ug/L	50	43.7	87	67-142	N2
n-Propylbenzene	ug/L	50	46.8	94	71-132	
Naphthalene	ug/L	50	49.3	99	62-130	
p-Isopropyltoluene	ug/L	50	50.0	100	71-126	
sec-Butylbenzene	ug/L	50	48.2	96	69-130	
Styrene	ug/L	50	49.7	99	75-125	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5052200

LABORATORY CONTROL SAMPLE: 618214

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	47.9	96	49-114	
Tetrachloroethene	ug/L	50	50.9	102	57-125	
Toluene	ug/L	50	45.9	92	72-124	
trans-1,2-Dichloroethene	ug/L	50	49.7	99	71-145	
trans-1,3-Dichloropropene	ug/L	50	44.3	89	58-118	
trans-1,4-Dichloro-2-butene	ug/L	200	172	86	50-121	
Trichloroethene	ug/L	50	44.8	90	77-122	
Trichlorofluoromethane	ug/L	50	56.5	113	56-159	
Vinyl acetate	ug/L	200	189	95	27-119	
Vinyl chloride	ug/L	50	49.9	100	61-146	
Xylene (Total)	ug/L	150	149	99	72-126	
4-Bromofluorobenzene (S)	%			99	72-125	
Dibromofluoromethane (S)	%			103	83-123	
Toluene-d8 (S)	%			97	81-114	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5052200

QC Batch: MSV/35403 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 5052200001, 5052200002, 5052200003, 5052200004

METHOD BLANK: 618207 Matrix: Solid
Associated Lab Samples: 5052200001, 5052200002, 5052200003, 5052200004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	09/02/11 13:15	
1,1,1-Trichloroethane	ug/kg	ND	5.0	09/02/11 13:15	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	09/02/11 13:15	
1,1,2-Trichloroethane	ug/kg	ND	5.0	09/02/11 13:15	
1,1-Dichloroethane	ug/kg	ND	5.0	09/02/11 13:15	
1,1-Dichloroethene	ug/kg	ND	5.0	09/02/11 13:15	
1,1-Dichloropropene	ug/kg	ND	5.0	09/02/11 13:15	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	09/02/11 13:15	
1,2,3-Trichloropropane	ug/kg	ND	5.0	09/02/11 13:15	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	09/02/11 13:15	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	09/02/11 13:15	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	09/02/11 13:15	
1,2-Dichlorobenzene	ug/kg	ND	5.0	09/02/11 13:15	
1,2-Dichloroethane	ug/kg	ND	5.0	09/02/11 13:15	
1,2-Dichloropropane	ug/kg	ND	5.0	09/02/11 13:15	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	09/02/11 13:15	
1,3-Dichlorobenzene	ug/kg	ND	5.0	09/02/11 13:15	
1,3-Dichloropropane	ug/kg	ND	5.0	09/02/11 13:15	
1,4-Dichlorobenzene	ug/kg	ND	5.0	09/02/11 13:15	
2,2-Dichloropropane	ug/kg	ND	5.0	09/02/11 13:15	
2-Butanone (MEK)	ug/kg	ND	25.0	09/02/11 13:15	
2-Chlorotoluene	ug/kg	ND	5.0	09/02/11 13:15	
2-Hexanone	ug/kg	ND	100	09/02/11 13:15	
4-Chlorotoluene	ug/kg	ND	5.0	09/02/11 13:15	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	09/02/11 13:15	
Acetone	ug/kg	ND	100	09/02/11 13:15	
Acrolein	ug/kg	ND	100	09/02/11 13:15	
Acrylonitrile	ug/kg	ND	100	09/02/11 13:15	
Benzene	ug/kg	ND	5.0	09/02/11 13:15	
Bromobenzene	ug/kg	ND	5.0	09/02/11 13:15	
Bromochloromethane	ug/kg	ND	5.0	09/02/11 13:15	
Bromodichloromethane	ug/kg	ND	5.0	09/02/11 13:15	
Bromoform	ug/kg	ND	5.0	09/02/11 13:15	
Bromomethane	ug/kg	ND	5.0	09/02/11 13:15	
Carbon disulfide	ug/kg	ND	10.0	09/02/11 13:15	
Carbon tetrachloride	ug/kg	ND	5.0	09/02/11 13:15	
Chlorobenzene	ug/kg	ND	5.0	09/02/11 13:15	
Chloroethane	ug/kg	ND	5.0	09/02/11 13:15	
Chloroform	ug/kg	ND	5.0	09/02/11 13:15	
Chloromethane	ug/kg	ND	5.0	09/02/11 13:15	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	09/02/11 13:15	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	09/02/11 13:15	
Dibromochloromethane	ug/kg	ND	5.0	09/02/11 13:15	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5052200

METHOD BLANK: 618207 Matrix: Solid

Associated Lab Samples: 5052200001, 5052200002, 5052200003, 5052200004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	5.0	09/02/11 13:15	
Dichlorodifluoromethane	ug/kg	ND	5.0	09/02/11 13:15	
Ethyl methacrylate	ug/kg	ND	100	09/02/11 13:15	
Ethylbenzene	ug/kg	ND	5.0	09/02/11 13:15	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	09/02/11 13:15	
Iodomethane	ug/kg	ND	100	09/02/11 13:15	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	09/02/11 13:15	
Methyl-tert-butyl ether	ug/kg	ND	5.0	09/02/11 13:15	
Methylene chloride	ug/kg	ND	20.0	09/02/11 13:15	
n-Butylbenzene	ug/kg	ND	5.0	09/02/11 13:15	
n-Hexane	ug/kg	ND	5.0	09/02/11 13:15	N2
n-Propylbenzene	ug/kg	ND	5.0	09/02/11 13:15	
Naphthalene	ug/kg	ND	5.0	09/02/11 13:15	
p-Isopropyltoluene	ug/kg	ND	5.0	09/02/11 13:15	
sec-Butylbenzene	ug/kg	ND	5.0	09/02/11 13:15	
Styrene	ug/kg	ND	5.0	09/02/11 13:15	
tert-Butylbenzene	ug/kg	ND	5.0	09/02/11 13:15	
Tetrachloroethene	ug/kg	ND	5.0	09/02/11 13:15	
Toluene	ug/kg	ND	5.0	09/02/11 13:15	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	09/02/11 13:15	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	09/02/11 13:15	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	09/02/11 13:15	
Trichloroethene	ug/kg	ND	5.0	09/02/11 13:15	
Trichlorofluoromethane	ug/kg	ND	5.0	09/02/11 13:15	
Vinyl acetate	ug/kg	ND	100	09/02/11 13:15	
Vinyl chloride	ug/kg	ND	5.0	09/02/11 13:15	
Xylene (Total)	ug/kg	ND	10.0	09/02/11 13:15	
4-Bromofluorobenzene (S)	%	99	67-134	09/02/11 13:15	
Dibromofluoromethane (S)	%	102	71-125	09/02/11 13:15	
Toluene-d8 (S)	%	95	76-124	09/02/11 13:15	

LABORATORY CONTROL SAMPLE: 618208

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	52.1	104	70-118	
1,1,1-Trichloroethane	ug/kg	50	48.6	97	73-123	
1,1,2,2-Tetrachloroethane	ug/kg	50	46.2	92	71-127	
1,1,2-Trichloroethane	ug/kg	50	48.3	97	78-124	
1,1-Dichloroethane	ug/kg	50	46.2	92	73-122	
1,1-Dichloroethene	ug/kg	50	52.6	105	80-137	
1,1-Dichloropropene	ug/kg	50	48.7	97	77-121	
1,2,3-Trichlorobenzene	ug/kg	50	50.3	101	67-125	
1,2,3-Trichloropropane	ug/kg	100	74.5	75	47-117	
1,2,4-Trichlorobenzene	ug/kg	50	50.8	102	64-121	
1,2,4-Trimethylbenzene	ug/kg	50	46.8	94	70-122	

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

QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5052200

LABORATORY CONTROL SAMPLE: 618208

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/kg	50	47.2	94	79-119	
1,2-Dichlorobenzene	ug/kg	50	49.1	98	76-120	
1,2-Dichloroethane	ug/kg	50	50.5	101	72-125	
1,2-Dichloropropane	ug/kg	50	45.4	91	76-121	
1,3,5-Trimethylbenzene	ug/kg	50	48.1	96	70-122	
1,3-Dichlorobenzene	ug/kg	50	49.7	99	78-120	
1,3-Dichloropropane	ug/kg	50	46.1	92	78-121	
1,4-Dichlorobenzene	ug/kg	50	49.1	98	77-117	
2,2-Dichloropropane	ug/kg	50	44.2	88	55-128	
2-Butanone (MEK)	ug/kg	250	219	88	39-186	
2-Chlorotoluene	ug/kg	50	47.7	95	76-122	
2-Hexanone	ug/kg	250	214	86	53-168	
4-Chlorotoluene	ug/kg	50	49.7	99	73-121	
4-Methyl-2-pentanone (MIBK)	ug/kg	250	214	86	67-124	
Acetone	ug/kg	250	248	99	10-200	
Acrolein	ug/kg	1000	1620	162	10-200	
Acrylonitrile	ug/kg	1000	942	94	70-126	
Benzene	ug/kg	50	47.1	94	77-123	
Bromobenzene	ug/kg	50	48.3	97	73-120	
Bromochloromethane	ug/kg	50	47.9	96	70-131	
Bromodichloromethane	ug/kg	50	48.4	97	74-120	
Bromoform	ug/kg	50	47.6	95	65-116	
Bromomethane	ug/kg	50	47.8	96	18-190	
Carbon disulfide	ug/kg	100	103	103	68-127	
Carbon tetrachloride	ug/kg	50	50.0	100	65-127	
Chlorobenzene	ug/kg	50	50.6	101	80-116	
Chloroethane	ug/kg	50	51.8	104	55-159	
Chloroform	ug/kg	50	47.8	96	74-118	
Chloromethane	ug/kg	50	49.1	98	56-142	
cis-1,2-Dichloroethene	ug/kg	50	48.0	96	82-125	
cis-1,3-Dichloropropene	ug/kg	50	44.3	89	67-118	
Dibromochloromethane	ug/kg	50	47.0	94	70-123	
Dibromomethane	ug/kg	50	48.6	97	76-121	
Dichlorodifluoromethane	ug/kg	50	67.3	135	25-200	
Ethyl methacrylate	ug/kg	200	180	90	70-122	
Ethylbenzene	ug/kg	50	50.3	101	77-120	
Hexachloro-1,3-butadiene	ug/kg	50	51.9	104	64-127	
Iodomethane	ug/kg	100	85.9J	86	26-171	
Isopropylbenzene (Cumene)	ug/kg	50	52.0	104	75-118	
Methyl-tert-butyl ether	ug/kg	100	96.4	96	69-125	
Methylene chloride	ug/kg	50	45.1	90	66-128	
n-Butylbenzene	ug/kg	50	47.8	96	68-126	
n-Hexane	ug/kg	50	43.7	87	71-148	N2
n-Propylbenzene	ug/kg	50	46.8	94	74-124	
Naphthalene	ug/kg	50	49.3	99	68-129	
p-Isopropyltoluene	ug/kg	50	50.0	100	71-123	
sec-Butylbenzene	ug/kg	50	48.2	96	70-126	
Styrene	ug/kg	50	49.7	99	76-120	

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(317)875-5894

QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5052200

LABORATORY CONTROL SAMPLE: 618208

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/kg	50	47.9	96	46-117	
Tetrachloroethene	ug/kg	50	50.9	102	69-112	
Toluene	ug/kg	50	45.9	92	74-121	
trans-1,2-Dichloroethene	ug/kg	50	49.7	99	79-134	
trans-1,3-Dichloropropene	ug/kg	50	44.3	89	59-113	
trans-1,4-Dichloro-2-butene	ug/kg	200	172	86	51-118	
Trichloroethene	ug/kg	50	44.8	90	79-119	
Trichlorofluoromethane	ug/kg	50	56.5	113	57-151	
Vinyl acetate	ug/kg	200	189	95	29-122	
Vinyl chloride	ug/kg	50	49.9	100	69-138	
Xylene (Total)	ug/kg	150	149	99	75-122	
4-Bromofluorobenzene (S)	%			99	67-134	
Dibromofluoromethane (S)	%			103	71-125	
Toluene-d8 (S)	%			97	76-124	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5052200

QC Batch: PMST/6221 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 5052200001, 5052200002, 5052200003, 5052200004

SAMPLE DUPLICATE: 617160

Parameter	Units	5052139001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.3	16.9	3	5	

SAMPLE DUPLICATE: 617161

Parameter	Units	5052159001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	23.8	23.6	.6	5	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5052200

QC Batch: WET/9826 Analysis Method: Walkley Black
QC Batch Method: Walkley Black Analysis Description: Organic Carbon Walkley Black
Associated Lab Samples: 5052200001, 5052200002, 5052200003, 5052200004

METHOD BLANK: 500548 Matrix: Solid
Associated Lab Samples: 5052200001, 5052200002, 5052200003, 5052200004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/kg	ND	400	09/09/11 13:44	

LABORATORY CONTROL SAMPLE: 500549

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/kg	16000	15200	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 500550 500551

Parameter	Units	5051974019 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	1230	16000	16000	16700	16500	97	95	80-120	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 500552 500553

Parameter	Units	5052261001 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	6770	16000	16000	20200	19800	84	82	80-120	2	20	

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QUALIFIERS

Project: Michigan Plaza M01046
Pace Project No.: 5052200

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.

LABORATORIES

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

ANALYTE QUALIFIERS

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.: 5052200

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5052200005	**SBP11D:290**	EPA 8260	MSV/35405		
5052200006	**SBP11D:390**	EPA 8260	MSV/35405		
5052200007	**SBP13D:240**	EPA 8260	MSV/35405		
5052200008	**SBP13D:320**	EPA 8260	MSV/35405		
5052200001	**SBP11D:160170**	EPA 8260	MSV/35403		
5052200002	**SBP11D:370390**	EPA 8260	MSV/35403		
5052200003	**SBP13D:160180**	EPA 8260	MSV/35403		
5052200004	**SBP13D:360380**	EPA 8260	MSV/35403		
5052200001	**SBP11D:160170**	ASTM D2974-87	PMST/6221		
5052200002	**SBP11D:370390**	ASTM D2974-87	PMST/6221		
5052200003	**SBP13D:160180**	ASTM D2974-87	PMST/6221		
5052200004	**SBP13D:360380**	ASTM D2974-87	PMST/6221		
5052200001	**SBP11D:160170**	Walkley Black	WET/9826		
5052200002	**SBP11D:370390**	Walkley Black	WET/9826		
5052200003	**SBP13D:160180**	Walkley Black	WET/9826		
5052200004	**SBP13D:360380**	Walkley Black	WET/9826		

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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

1495251

Section A Required Client Information:

Company:	Mundell & Associates
Address:	110 S. Downey Ave. Indy. 46219
Email To:	swebb@mundellassociates.com
Phone:	3176309060
Fax:	
Requested Due Date/TAT:	ONE WEEK

Section B Required Project Information:

Report To:	SARAH WEBB
Copy To:	
Purchase Order No.:	
Project Name:	Michigan Plaza
Project Number:	M01046

Section C Invoice Information:

Attention:	MERLE 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: 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	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED 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)	8260 FULL	Walkley-Black	8260-FULL	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	[redacted]																						
2	SBP11D:160170	S	G	8/31/11	1010			2	0	X										X	X		-001
3	SBP11D:370390	S			1030			2	0	X										X	X		-002
4	SBP11D:290	W			1130				3				X						X				-005
5	SBP11D:390	W			1150				3				X						X				-006
6	SBP13D:160180	S			1500			2	0	X										X	X		-003
7	[redacted]																						
8	SBP13D:360380	S			1600			2	0	X										X	X		-004
9	SBP13D:240	W			1620				3				X						X				-007
10	SBP13D:320	W			1615				3				X						X				-008
11																							
12																							

5052200

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)
	Sarah E Webb M&A	9/1/11	10:55	[illegible]	9/1/11	10:55	0.4	Y	N	Y

WI 32 OK 27 ORIGINAL
Pace Time 11:45 9/1/11

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: SARAH WEBB

SIGNATURE of SAMPLER: SWebb

DATE Signed (MM/DD/YY): 8/31/11

*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 # 50552200

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: 9/1/11 12:00 pm

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other TC Trays.

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): 0.4°C Ice Visible in Sample Containers: ☐ yes ☒ no

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 9/1/11 ZT

		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. (Terra Cores.)
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 Water/SL	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. ALL VOA VIALS W/ headspace.
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:** 9/1/11

Sample Container Count

CLIENT: Mundell & Assoc.

COC PAGE 1 of 1
COC ID# 149528

Project # 5052200

Sample Line Item	DG9H	AG1U	WGFU	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H				Comments
1	—			—												
2			1	4												
3			1	4												
4	3															
5	3															
6			1	4												
7	—		—	—												
8			1	4												
9	3															
10	3															
11																
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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(317)875-5894

September 12, 2011

Ms. Sarah Webb
Mundell & Associates
110 South Downey Ave.
Indianapolis, IN 46219

RE: Project: Michigan Plaza M01046
Pace Project No.: 5052261

Dear Ms. Webb:
Enclosed are the analytical results for sample(s) received by the laboratory on September 02, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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,

Tina Sayer

Tina Sayer

tina.sayer@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: Michigan Plaza M01046
Pace Project No.: 5052261

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
Wisconsin DATCP Certification #: 105-444

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois/NELAC Certification #: 100418
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana Certification #: 04076
Ohio VAP: CL0065
West Virginia Certification #: 330

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SAMPLE SUMMARY

Project: Michigan Plaza M01046
Pace Project No.: 5052261

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5052261001	**SBP12D:160180**	Solid	09/01/11 09:30	09/02/11 11:15
5052261002	**SBP12D:360370**	Solid	09/01/11 10:30	09/02/11 11:15
5052261003	**FD-1**	Solid	09/01/11 08:00	09/02/11 11:15
5052261004	**SBP12D:260**	Water	09/01/11 11:45	09/02/11 11:15
5052261005	**SBP12D:360**	Water	09/01/11 11:15	09/02/11 11:15
5052261006	**FD-2**	Water	09/01/11 08:00	09/02/11 11:15
5052261007	**Trip Blank**	Water	09/01/11 08:00	09/02/11 11:15

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SAMPLE ANALYTE COUNT

Project: Michigan Plaza M01046
Pace Project No.: 5052261

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
5052261001	**SBP12D:160180**	EPA 8260	ALA	73	PASI-I
		ASTM D2974-87	MLS	1	PASI-I
		Walkley Black	TJJ	3	PASI-G
5052261002	**SBP12D:360370**	EPA 8260	ALA	73	PASI-I
		ASTM D2974-87	MLS	1	PASI-I
		Walkley Black	TJJ	3	PASI-G
5052261003	**FD-1**	EPA 8260	ALA	73	PASI-I
		ASTM D2974-87	MLS	1	PASI-I
		Walkley Black	TJJ	3	PASI-G
5052261004	**SBP12D:260**	EPA 8260	ALA	73	PASI-I
5052261005	**SBP12D:360**	EPA 8260	ALA	73	PASI-I
5052261006	**FD-2**	EPA 8260	ALA	73	PASI-I
5052261007	**Trip Blank**	EPA 8260	ALA	73	PASI-I

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

ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5052261

Sample: SBP12D:160180 **Lab ID: 5052261001** Collected: 09/01/11 09:30 Received: 09/02/11 11:15 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	2130	25		09/08/11 04:54	67-64-1	
Acrolein	ND	ug/kg	2130	25		09/08/11 04:54	107-02-8	
Acrylonitrile	ND	ug/kg	2130	25		09/08/11 04:54	107-13-1	
Benzene	ND	ug/kg	107	25		09/08/11 04:54	71-43-2	1d
Bromobenzene	ND	ug/kg	107	25		09/08/11 04:54	108-86-1	
Bromochloromethane	ND	ug/kg	107	25		09/08/11 04:54	74-97-5	
Bromodichloromethane	ND	ug/kg	107	25		09/08/11 04:54	75-27-4	
Bromoform	ND	ug/kg	107	25		09/08/11 04:54	75-25-2	
Bromomethane	ND	ug/kg	107	25		09/08/11 04:54	74-83-9	
2-Butanone (MEK)	ND	ug/kg	533	25		09/08/11 04:54	78-93-3	
n-Butylbenzene	ND	ug/kg	107	25		09/08/11 04:54	104-51-8	
sec-Butylbenzene	ND	ug/kg	107	25		09/08/11 04:54	135-98-8	
tert-Butylbenzene	ND	ug/kg	107	25		09/08/11 04:54	98-06-6	
Carbon disulfide	ND	ug/kg	213	25		09/08/11 04:54	75-15-0	
Carbon tetrachloride	ND	ug/kg	107	25		09/08/11 04:54	56-23-5	
Chlorobenzene	ND	ug/kg	107	25		09/08/11 04:54	108-90-7	
Chloroethane	ND	ug/kg	107	25		09/08/11 04:54	75-00-3	
Chloroform	ND	ug/kg	107	25		09/08/11 04:54	67-66-3	
Chloromethane	ND	ug/kg	107	25		09/08/11 04:54	74-87-3	
2-Chlorotoluene	ND	ug/kg	107	25		09/08/11 04:54	95-49-8	
4-Chlorotoluene	ND	ug/kg	107	25		09/08/11 04:54	106-43-4	
Dibromochloromethane	ND	ug/kg	107	25		09/08/11 04:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	107	25		09/08/11 04:54	106-93-4	
Dibromomethane	ND	ug/kg	107	25		09/08/11 04:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	107	25		09/08/11 04:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	107	25		09/08/11 04:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	107	25		09/08/11 04:54	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	2130	25		09/08/11 04:54	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	107	25		09/08/11 04:54	75-71-8	
1,1-Dichloroethane	ND	ug/kg	107	25		09/08/11 04:54	75-34-3	
1,2-Dichloroethane	ND	ug/kg	107	25		09/08/11 04:54	107-06-2	
1,1-Dichloroethene	ND	ug/kg	107	25		09/08/11 04:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	107	25		09/08/11 04:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	107	25		09/08/11 04:54	156-60-5	
1,2-Dichloropropane	ND	ug/kg	107	25		09/08/11 04:54	78-87-5	
1,3-Dichloropropane	ND	ug/kg	107	25		09/08/11 04:54	142-28-9	
2,2-Dichloropropane	ND	ug/kg	107	25		09/08/11 04:54	594-20-7	
1,1-Dichloropropene	ND	ug/kg	107	25		09/08/11 04:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	107	25		09/08/11 04:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	107	25		09/08/11 04:54	10061-02-6	
Ethylbenzene	ND	ug/kg	107	25		09/08/11 04:54	100-41-4	
Ethyl methacrylate	ND	ug/kg	2130	25		09/08/11 04:54	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	107	25		09/08/11 04:54	87-68-3	
n-Hexane	ND	ug/kg	107	25		09/08/11 04:54	110-54-3	N2
2-Hexanone	ND	ug/kg	2130	25		09/08/11 04:54	591-78-6	
Iodomethane	ND	ug/kg	2130	25		09/08/11 04:54	74-88-4	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5052261

Sample: SBP12D:160180 **Lab ID: 5052261001** Collected: 09/01/11 09:30 Received: 09/02/11 11:15 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	107	25		09/08/11 04:54	98-82-8	
p-Isopropyltoluene	ND	ug/kg	107	25		09/08/11 04:54	99-87-6	
Methylene chloride	ND	ug/kg	426	25		09/08/11 04:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	533	25		09/08/11 04:54	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	107	25		09/08/11 04:54	1634-04-4	
Naphthalene	ND	ug/kg	107	25		09/08/11 04:54	91-20-3	
n-Propylbenzene	ND	ug/kg	107	25		09/08/11 04:54	103-65-1	
Styrene	ND	ug/kg	107	25		09/08/11 04:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	107	25		09/08/11 04:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	107	25		09/08/11 04:54	79-34-5	
Tetrachloroethene	**51300**	ug/kg	1010	200		09/08/11 06:30	127-18-4	
Toluene	ND	ug/kg	107	25		09/08/11 04:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	107	25		09/08/11 04:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	107	25		09/08/11 04:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	107	25		09/08/11 04:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	107	25		09/08/11 04:54	79-00-5	
Trichloroethene	ND	ug/kg	107	25		09/08/11 04:54	79-01-6	
Trichlorofluoromethane	ND	ug/kg	107	25		09/08/11 04:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	107	25		09/08/11 04:54	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	107	25		09/08/11 04:54	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	107	25		09/08/11 04:54	108-67-8	
Vinyl acetate	ND	ug/kg	2130	25		09/08/11 04:54	108-05-4	
Vinyl chloride	ND	ug/kg	107	25		09/08/11 04:54	75-01-4	
Xylene (Total)	ND	ug/kg	213	25		09/08/11 04:54	1330-20-7	
Dibromofluoromethane (S)	93	%	71-125	25		09/08/11 04:54	1868-53-7	2d
Toluene-d8 (S)	93	%	76-124	25		09/08/11 04:54	2037-26-5	
4-Bromofluorobenzene (S)	98	%	67-134	25		09/08/11 04:54	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**1.4**	%	0.10	1		09/06/11 10:26		
Organic Carbon Walkley Black	Analytical Method: Walkley Black							
Total Organic Carbon	**6770**	mg/kg	400	1		09/09/11 13:44	7440-44-0	
Total Organic Carbon	**7460**	mg/kg	400	1		09/09/11 13:44	7440-44-0	
Total Organic Carbon	**6430**	mg/kg	400	1		09/09/11 13:44	7440-44-0	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5052261

Sample: SBP12D:360370 **Lab ID: 5052261002** Collected: 09/01/11 10:30 Received: 09/02/11 11:15 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	70.3	1		09/08/11 07:02	67-64-1	
Acrolein	ND	ug/kg	70.3	1		09/08/11 07:02	107-02-8	
Acrylonitrile	ND	ug/kg	70.3	1		09/08/11 07:02	107-13-1	
Benzene	ND	ug/kg	3.5	1		09/08/11 07:02	71-43-2	
Bromobenzene	ND	ug/kg	3.5	1		09/08/11 07:02	108-86-1	
Bromochloromethane	ND	ug/kg	3.5	1		09/08/11 07:02	74-97-5	
Bromodichloromethane	ND	ug/kg	3.5	1		09/08/11 07:02	75-27-4	
Bromoform	ND	ug/kg	3.5	1		09/08/11 07:02	75-25-2	
Bromomethane	ND	ug/kg	3.5	1		09/08/11 07:02	74-83-9	
2-Butanone (MEK)	ND	ug/kg	17.6	1		09/08/11 07:02	78-93-3	
n-Butylbenzene	ND	ug/kg	3.5	1		09/08/11 07:02	104-51-8	
sec-Butylbenzene	ND	ug/kg	3.5	1		09/08/11 07:02	135-98-8	
tert-Butylbenzene	ND	ug/kg	3.5	1		09/08/11 07:02	98-06-6	
Carbon disulfide	ND	ug/kg	7.0	1		09/08/11 07:02	75-15-0	
Carbon tetrachloride	ND	ug/kg	3.5	1		09/08/11 07:02	56-23-5	
Chlorobenzene	ND	ug/kg	3.5	1		09/08/11 07:02	108-90-7	
Chloroethane	ND	ug/kg	3.5	1		09/08/11 07:02	75-00-3	
Chloroform	ND	ug/kg	3.5	1		09/08/11 07:02	67-66-3	
Chloromethane	ND	ug/kg	3.5	1		09/08/11 07:02	74-87-3	
2-Chlorotoluene	ND	ug/kg	3.5	1		09/08/11 07:02	95-49-8	
4-Chlorotoluene	ND	ug/kg	3.5	1		09/08/11 07:02	106-43-4	
Dibromochloromethane	ND	ug/kg	3.5	1		09/08/11 07:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.5	1		09/08/11 07:02	106-93-4	
Dibromomethane	ND	ug/kg	3.5	1		09/08/11 07:02	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.5	1		09/08/11 07:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.5	1		09/08/11 07:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.5	1		09/08/11 07:02	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	70.3	1		09/08/11 07:02	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	3.5	1		09/08/11 07:02	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.5	1		09/08/11 07:02	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.5	1		09/08/11 07:02	107-06-2	
1,1-Dichloroethene	ND	ug/kg	3.5	1		09/08/11 07:02	75-35-4	
cis-1,2-Dichloroethene	**3.9**	ug/kg	3.5	1		09/08/11 07:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.5	1		09/08/11 07:02	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.5	1		09/08/11 07:02	78-87-5	
1,3-Dichloropropane	ND	ug/kg	3.5	1		09/08/11 07:02	142-28-9	
2,2-Dichloropropane	ND	ug/kg	3.5	1		09/08/11 07:02	594-20-7	
1,1-Dichloropropene	ND	ug/kg	3.5	1		09/08/11 07:02	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	3.5	1		09/08/11 07:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.5	1		09/08/11 07:02	10061-02-6	
Ethylbenzene	ND	ug/kg	3.5	1		09/08/11 07:02	100-41-4	
Ethyl methacrylate	ND	ug/kg	70.3	1		09/08/11 07:02	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	3.5	1		09/08/11 07:02	87-68-3	
n-Hexane	ND	ug/kg	3.5	1		09/08/11 07:02	110-54-3	N2
2-Hexanone	ND	ug/kg	70.3	1		09/08/11 07:02	591-78-6	
Iodomethane	ND	ug/kg	70.3	1		09/08/11 07:02	74-88-4	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5052261

Sample: SBP12D:360370 **Lab ID: 5052261002** Collected: 09/01/11 10:30 Received: 09/02/11 11:15 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	3.5	1		09/08/11 07:02	98-82-8	
p-Isopropyltoluene	ND	ug/kg	3.5	1		09/08/11 07:02	99-87-6	
Methylene chloride	ND	ug/kg	14.1	1		09/08/11 07:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	17.6	1		09/08/11 07:02	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	3.5	1		09/08/11 07:02	1634-04-4	
Naphthalene	ND	ug/kg	3.5	1		09/08/11 07:02	91-20-3	
n-Propylbenzene	ND	ug/kg	3.5	1		09/08/11 07:02	103-65-1	
Styrene	ND	ug/kg	3.5	1		09/08/11 07:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.5	1		09/08/11 07:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.5	1		09/08/11 07:02	79-34-5	
Tetrachloroethene	ND	ug/kg	3.5	1		09/08/11 07:02	127-18-4	
Toluene	ND	ug/kg	3.5	1		09/08/11 07:02	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	3.5	1		09/08/11 07:02	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	3.5	1		09/08/11 07:02	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	3.5	1		09/08/11 07:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.5	1		09/08/11 07:02	79-00-5	
Trichloroethene	ND	ug/kg	3.5	1		09/08/11 07:02	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.5	1		09/08/11 07:02	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	3.5	1		09/08/11 07:02	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	3.5	1		09/08/11 07:02	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	3.5	1		09/08/11 07:02	108-67-8	
Vinyl acetate	ND	ug/kg	70.3	1		09/08/11 07:02	108-05-4	
Vinyl chloride	ND	ug/kg	3.5	1		09/08/11 07:02	75-01-4	
Xylene (Total)	ND	ug/kg	7.0	1		09/08/11 07:02	1330-20-7	
Dibromofluoromethane (S)	103	%	71-125	1		09/08/11 07:02	1868-53-7	
Toluene-d8 (S)	96	%	76-124	1		09/08/11 07:02	2037-26-5	
4-Bromofluorobenzene (S)	101	%	67-134	1		09/08/11 07:02	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**8.9**	%	0.10	1		09/06/11 10:26		
Organic Carbon Walkley Black	Analytical Method: Walkley Black							
Total Organic Carbon	**5860**	mg/kg	400	1		09/09/11 13:44	7440-44-0	
Total Organic Carbon	**5510**	mg/kg	400	1		09/09/11 13:44	7440-44-0	
Total Organic Carbon	**5910**	mg/kg	400	1		09/09/11 13:44	7440-44-0	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5052261

Sample: FD-1 **Lab ID: 5052261003** Collected: 09/01/11 08:00 Received: 09/02/11 11:15 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	85.4	1		09/08/11 07:34	67-64-1	
Acrolein	ND	ug/kg	85.4	1		09/08/11 07:34	107-02-8	
Acrylonitrile	ND	ug/kg	85.4	1		09/08/11 07:34	107-13-1	
Benzene	ND	ug/kg	4.3	1		09/08/11 07:34	71-43-2	
Bromobenzene	ND	ug/kg	4.3	1		09/08/11 07:34	108-86-1	
Bromochloromethane	ND	ug/kg	4.3	1		09/08/11 07:34	74-97-5	
Bromodichloromethane	ND	ug/kg	4.3	1		09/08/11 07:34	75-27-4	
Bromoform	ND	ug/kg	4.3	1		09/08/11 07:34	75-25-2	
Bromomethane	ND	ug/kg	4.3	1		09/08/11 07:34	74-83-9	
2-Butanone (MEK)	ND	ug/kg	21.3	1		09/08/11 07:34	78-93-3	
n-Butylbenzene	ND	ug/kg	4.3	1		09/08/11 07:34	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.3	1		09/08/11 07:34	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.3	1		09/08/11 07:34	98-06-6	
Carbon disulfide	ND	ug/kg	8.5	1		09/08/11 07:34	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.3	1		09/08/11 07:34	56-23-5	
Chlorobenzene	ND	ug/kg	4.3	1		09/08/11 07:34	108-90-7	
Chloroethane	ND	ug/kg	4.3	1		09/08/11 07:34	75-00-3	
Chloroform	ND	ug/kg	4.3	1		09/08/11 07:34	67-66-3	
Chloromethane	ND	ug/kg	4.3	1		09/08/11 07:34	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.3	1		09/08/11 07:34	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.3	1		09/08/11 07:34	106-43-4	
Dibromochloromethane	ND	ug/kg	4.3	1		09/08/11 07:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.3	1		09/08/11 07:34	106-93-4	
Dibromomethane	ND	ug/kg	4.3	1		09/08/11 07:34	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.3	1		09/08/11 07:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.3	1		09/08/11 07:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.3	1		09/08/11 07:34	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	85.4	1		09/08/11 07:34	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.3	1		09/08/11 07:34	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.3	1		09/08/11 07:34	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.3	1		09/08/11 07:34	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.3	1		09/08/11 07:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.3	1		09/08/11 07:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.3	1		09/08/11 07:34	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.3	1		09/08/11 07:34	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.3	1		09/08/11 07:34	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.3	1		09/08/11 07:34	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.3	1		09/08/11 07:34	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.3	1		09/08/11 07:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.3	1		09/08/11 07:34	10061-02-6	
Ethylbenzene	ND	ug/kg	4.3	1		09/08/11 07:34	100-41-4	
Ethyl methacrylate	ND	ug/kg	85.4	1		09/08/11 07:34	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.3	1		09/08/11 07:34	87-68-3	
n-Hexane	ND	ug/kg	4.3	1		09/08/11 07:34	110-54-3	N2
2-Hexanone	ND	ug/kg	85.4	1		09/08/11 07:34	591-78-6	
Iodomethane	ND	ug/kg	85.4	1		09/08/11 07:34	74-88-4	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5052261

Sample: FD-1 **Lab ID: 5052261003** Collected: 09/01/11 08:00 Received: 09/02/11 11:15 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		09/08/11 07:34	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.3	1		09/08/11 07:34	99-87-6	
Methylene chloride	ND	ug/kg	17.1	1		09/08/11 07:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	21.3	1		09/08/11 07:34	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.3	1		09/08/11 07:34	1634-04-4	
Naphthalene	ND	ug/kg	4.3	1		09/08/11 07:34	91-20-3	
n-Propylbenzene	ND	ug/kg	4.3	1		09/08/11 07:34	103-65-1	
Styrene	ND	ug/kg	4.3	1		09/08/11 07:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.3	1		09/08/11 07:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.3	1		09/08/11 07:34	79-34-5	
Tetrachloroethene	**75200**	ug/kg	4590	1000		09/08/11 20:03	127-18-4	
Toluene	ND	ug/kg	4.3	1		09/08/11 07:34	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.3	1		09/08/11 07:34	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.3	1		09/08/11 07:34	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.3	1		09/08/11 07:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.3	1		09/08/11 07:34	79-00-5	
Trichloroethene	ND	ug/kg	4.3	1		09/08/11 07:34	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.3	1		09/08/11 07:34	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.3	1		09/08/11 07:34	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.3	1		09/08/11 07:34	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.3	1		09/08/11 07:34	108-67-8	
Vinyl acetate	ND	ug/kg	85.4	1		09/08/11 07:34	108-05-4	
Vinyl chloride	ND	ug/kg	4.3	1		09/08/11 07:34	75-01-4	
Xylene (Total)	ND	ug/kg	8.5	1		09/08/11 07:34	1330-20-7	
Dibromofluoromethane (S)	101	%	71-125	1		09/08/11 07:34	1868-53-7	
Toluene-d8 (S)	96	%	76-124	1		09/08/11 07:34	2037-26-5	
4-Bromofluorobenzene (S)	99	%	67-134	1		09/08/11 07:34	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**3.8**	%	0.10	1		09/06/11 10:26		
Organic Carbon Walkley Black	Analytical Method: Walkley Black							
Total Organic Carbon	**8310**	mg/kg	400	1		09/09/11 13:44	7440-44-0	
Total Organic Carbon	**7400**	mg/kg	400	1		09/09/11 13:44	7440-44-0	
Total Organic Carbon	**8540**	mg/kg	400	1		09/09/11 13:44	7440-44-0	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5052261

Sample: SBP12D:260 **Lab ID: 5052261004** Collected: 09/01/11 11:45 Received: 09/02/11 11:15 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		09/08/11 08:05	67-64-1	
Acrolein	ND	ug/L	50.0	1		09/08/11 08:05	107-02-8	
Acrylonitrile	ND	ug/L	100	1		09/08/11 08:05	107-13-1	
Benzene	ND	ug/L	5.0	1		09/08/11 08:05	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		09/08/11 08:05	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		09/08/11 08:05	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		09/08/11 08:05	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/08/11 08:05	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/08/11 08:05	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		09/08/11 08:05	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		09/08/11 08:05	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		09/08/11 08:05	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		09/08/11 08:05	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		09/08/11 08:05	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/08/11 08:05	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/08/11 08:05	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/08/11 08:05	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/08/11 08:05	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/08/11 08:05	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		09/08/11 08:05	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		09/08/11 08:05	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		09/08/11 08:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		09/08/11 08:05	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		09/08/11 08:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/08/11 08:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		09/08/11 08:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/08/11 08:05	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		09/08/11 08:05	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		09/08/11 08:05	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/08/11 08:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/08/11 08:05	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/08/11 08:05	75-35-4	
cis-1,2-Dichloroethene	**221**	ug/L	5.0	1		09/08/11 08:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/08/11 08:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/08/11 08:05	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		09/08/11 08:05	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		09/08/11 08:05	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		09/08/11 08:05	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/08/11 08:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/08/11 08:05	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		09/08/11 08:05	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		09/08/11 08:05	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		09/08/11 08:05	87-68-3	
n-Hexane	ND	ug/L	5.0	1		09/08/11 08:05	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		09/08/11 08:05	591-78-6	
Iodomethane	ND	ug/L	10.0	1		09/08/11 08:05	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		09/08/11 08:05	98-82-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5052261

Sample: SBP12D:260 **Lab ID: 5052261004** Collected: 09/01/11 11:45 Received: 09/02/11 11:15 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		09/08/11 08:05	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		09/08/11 08:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		09/08/11 08:05	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		09/08/11 08:05	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		09/08/11 08:05	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		09/08/11 08:05	103-65-1	
Styrene	ND	ug/L	5.0	1		09/08/11 08:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		09/08/11 08:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/08/11 08:05	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/08/11 08:05	127-18-4	
Toluene	ND	ug/L	5.0	1		09/08/11 08:05	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		09/08/11 08:05	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		09/08/11 08:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/08/11 08:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/08/11 08:05	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		09/08/11 08:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/08/11 08:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		09/08/11 08:05	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		09/08/11 08:05	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		09/08/11 08:05	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		09/08/11 08:05	108-05-4	
Vinyl chloride	**35.0**	ug/L	2.0	1		09/08/11 08:05	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		09/08/11 08:05	1330-20-7	
Dibromofluoromethane (S)	101	%	83-123	1		09/08/11 08:05	1868-53-7	
4-Bromofluorobenzene (S)	101	%	72-125	1		09/08/11 08:05	460-00-4	
Toluene-d8 (S)	95	%	81-114	1		09/08/11 08:05	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5052261

Sample: SBP12D:360 **Lab ID: 5052261005** Collected: 09/01/11 11:15 Received: 09/02/11 11:15 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		09/08/11 08:37	67-64-1	
Acrolein	ND	ug/L	50.0	1		09/08/11 08:37	107-02-8	
Acrylonitrile	ND	ug/L	100	1		09/08/11 08:37	107-13-1	
Benzene	ND	ug/L	5.0	1		09/08/11 08:37	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		09/08/11 08:37	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		09/08/11 08:37	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		09/08/11 08:37	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/08/11 08:37	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/08/11 08:37	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		09/08/11 08:37	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		09/08/11 08:37	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		09/08/11 08:37	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		09/08/11 08:37	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		09/08/11 08:37	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/08/11 08:37	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/08/11 08:37	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/08/11 08:37	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/08/11 08:37	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/08/11 08:37	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		09/08/11 08:37	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		09/08/11 08:37	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		09/08/11 08:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		09/08/11 08:37	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		09/08/11 08:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/08/11 08:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		09/08/11 08:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/08/11 08:37	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		09/08/11 08:37	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		09/08/11 08:37	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/08/11 08:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/08/11 08:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/08/11 08:37	75-35-4	
cis-1,2-Dichloroethene	**125**	ug/L	5.0	1		09/08/11 08:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/08/11 08:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/08/11 08:37	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		09/08/11 08:37	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		09/08/11 08:37	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		09/08/11 08:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/08/11 08:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/08/11 08:37	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		09/08/11 08:37	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		09/08/11 08:37	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		09/08/11 08:37	87-68-3	
n-Hexane	ND	ug/L	5.0	1		09/08/11 08:37	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		09/08/11 08:37	591-78-6	
Iodomethane	ND	ug/L	10.0	1		09/08/11 08:37	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		09/08/11 08:37	98-82-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5052261

Sample: SBP12D:360 **Lab ID: 5052261005** Collected: 09/01/11 11:15 Received: 09/02/11 11:15 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		09/08/11 08:37	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		09/08/11 08:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		09/08/11 08:37	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		09/08/11 08:37	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		09/08/11 08:37	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		09/08/11 08:37	103-65-1	
Styrene	ND	ug/L	5.0	1		09/08/11 08:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		09/08/11 08:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/08/11 08:37	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/08/11 08:37	127-18-4	
Toluene	ND	ug/L	5.0	1		09/08/11 08:37	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		09/08/11 08:37	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		09/08/11 08:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/08/11 08:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/08/11 08:37	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		09/08/11 08:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/08/11 08:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		09/08/11 08:37	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		09/08/11 08:37	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		09/08/11 08:37	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		09/08/11 08:37	108-05-4	
Vinyl chloride	**64.8**	ug/L	2.0	1		09/08/11 08:37	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		09/08/11 08:37	1330-20-7	
Dibromofluoromethane (S)	100	%	83-123	1		09/08/11 08:37	1868-53-7	
4-Bromofluorobenzene (S)	101	%	72-125	1		09/08/11 08:37	460-00-4	
Toluene-d8 (S)	94	%	81-114	1		09/08/11 08:37	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5052261

Sample: FD-2 **Lab ID: 5052261006** Collected: 09/01/11 08:00 Received: 09/02/11 11:15 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		09/08/11 00:57	67-64-1	
Acrolein	ND	ug/L	50.0	1		09/08/11 00:57	107-02-8	
Acrylonitrile	ND	ug/L	100	1		09/08/11 00:57	107-13-1	
Benzene	ND	ug/L	5.0	1		09/08/11 00:57	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		09/08/11 00:57	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		09/08/11 00:57	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		09/08/11 00:57	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/08/11 00:57	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/08/11 00:57	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		09/08/11 00:57	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		09/08/11 00:57	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		09/08/11 00:57	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		09/08/11 00:57	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		09/08/11 00:57	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/08/11 00:57	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/08/11 00:57	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/08/11 00:57	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/08/11 00:57	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/08/11 00:57	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		09/08/11 00:57	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		09/08/11 00:57	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		09/08/11 00:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		09/08/11 00:57	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		09/08/11 00:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/08/11 00:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		09/08/11 00:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/08/11 00:57	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		09/08/11 00:57	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		09/08/11 00:57	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/08/11 00:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/08/11 00:57	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/08/11 00:57	75-35-4	
cis-1,2-Dichloroethene	**223**	ug/L	5.0	1		09/08/11 00:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/08/11 00:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/08/11 00:57	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		09/08/11 00:57	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		09/08/11 00:57	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		09/08/11 00:57	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/08/11 00:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/08/11 00:57	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		09/08/11 00:57	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		09/08/11 00:57	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		09/08/11 00:57	87-68-3	
n-Hexane	ND	ug/L	5.0	1		09/08/11 00:57	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		09/08/11 00:57	591-78-6	
Iodomethane	ND	ug/L	10.0	1		09/08/11 00:57	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		09/08/11 00:57	98-82-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5052261

Sample: FD-2 **Lab ID: 5052261006** Collected: 09/01/11 08:00 Received: 09/02/11 11:15 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		09/08/11 00:57	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		09/08/11 00:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		09/08/11 00:57	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		09/08/11 00:57	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		09/08/11 00:57	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		09/08/11 00:57	103-65-1	
Styrene	ND	ug/L	5.0	1		09/08/11 00:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		09/08/11 00:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/08/11 00:57	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/08/11 00:57	127-18-4	
Toluene	ND	ug/L	5.0	1		09/08/11 00:57	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		09/08/11 00:57	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		09/08/11 00:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/08/11 00:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/08/11 00:57	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		09/08/11 00:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/08/11 00:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		09/08/11 00:57	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		09/08/11 00:57	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		09/08/11 00:57	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		09/08/11 00:57	108-05-4	
Vinyl chloride	**27.0**	ug/L	2.0	1		09/08/11 00:57	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		09/08/11 00:57	1330-20-7	
Dibromofluoromethane (S)	104	%	83-123	1		09/08/11 00:57	1868-53-7	
4-Bromofluorobenzene (S)	99	%	72-125	1		09/08/11 00:57	460-00-4	
Toluene-d8 (S)	95	%	81-114	1		09/08/11 00:57	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5052261

Sample: Trip Blank **Lab ID: 5052261007** Collected: 09/01/11 08:00 Received: 09/02/11 11:15 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		09/08/11 01:28	67-64-1	
Acrolein	ND	ug/L	50.0	1		09/08/11 01:28	107-02-8	
Acrylonitrile	ND	ug/L	100	1		09/08/11 01:28	107-13-1	
Benzene	ND	ug/L	5.0	1		09/08/11 01:28	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		09/08/11 01:28	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		09/08/11 01:28	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		09/08/11 01:28	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/08/11 01:28	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/08/11 01:28	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		09/08/11 01:28	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		09/08/11 01:28	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		09/08/11 01:28	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		09/08/11 01:28	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		09/08/11 01:28	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/08/11 01:28	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/08/11 01:28	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/08/11 01:28	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/08/11 01:28	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/08/11 01:28	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		09/08/11 01:28	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		09/08/11 01:28	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		09/08/11 01:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		09/08/11 01:28	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		09/08/11 01:28	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/08/11 01:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		09/08/11 01:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/08/11 01:28	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		09/08/11 01:28	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		09/08/11 01:28	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/08/11 01:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/08/11 01:28	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/08/11 01:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		09/08/11 01:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/08/11 01:28	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/08/11 01:28	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		09/08/11 01:28	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		09/08/11 01:28	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		09/08/11 01:28	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/08/11 01:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/08/11 01:28	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		09/08/11 01:28	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		09/08/11 01:28	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		09/08/11 01:28	87-68-3	
n-Hexane	ND	ug/L	5.0	1		09/08/11 01:28	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		09/08/11 01:28	591-78-6	
Iodomethane	ND	ug/L	10.0	1		09/08/11 01:28	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		09/08/11 01:28	98-82-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5052261

Sample: Trip Blank **Lab ID: 5052261007** Collected: 09/01/11 08:00 Received: 09/02/11 11:15 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		09/08/11 01:28	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		09/08/11 01:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		09/08/11 01:28	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		09/08/11 01:28	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		09/08/11 01:28	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		09/08/11 01:28	103-65-1	
Styrene	ND	ug/L	5.0	1		09/08/11 01:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		09/08/11 01:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/08/11 01:28	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/08/11 01:28	127-18-4	
Toluene	ND	ug/L	5.0	1		09/08/11 01:28	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		09/08/11 01:28	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		09/08/11 01:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/08/11 01:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/08/11 01:28	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		09/08/11 01:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/08/11 01:28	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		09/08/11 01:28	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		09/08/11 01:28	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		09/08/11 01:28	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		09/08/11 01:28	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		09/08/11 01:28	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		09/08/11 01:28	1330-20-7	
Dibromofluoromethane (S)	101	%	83-123	1		09/08/11 01:28	1868-53-7	
4-Bromofluorobenzene (S)	98	%	72-125	1		09/08/11 01:28	460-00-4	
Toluene-d8 (S)	94	%	81-114	1		09/08/11 01:28	2037-26-5	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5052261

QC Batch: MSV/35483 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5052261004, 5052261005

METHOD BLANK: 619224 Matrix: Water
Associated Lab Samples: 5052261004, 5052261005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	09/08/11 00:09	
1,1,1-Trichloroethane	ug/L	ND	5.0	09/08/11 00:09	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	09/08/11 00:09	
1,1,2-Trichloroethane	ug/L	ND	5.0	09/08/11 00:09	
1,1-Dichloroethane	ug/L	ND	5.0	09/08/11 00:09	
1,1-Dichloroethene	ug/L	ND	5.0	09/08/11 00:09	
1,1-Dichloropropene	ug/L	ND	5.0	09/08/11 00:09	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	09/08/11 00:09	
1,2,3-Trichloropropane	ug/L	ND	5.0	09/08/11 00:09	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	09/08/11 00:09	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	09/08/11 00:09	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	09/08/11 00:09	
1,2-Dichlorobenzene	ug/L	ND	5.0	09/08/11 00:09	
1,2-Dichloroethane	ug/L	ND	5.0	09/08/11 00:09	
1,2-Dichloropropane	ug/L	ND	5.0	09/08/11 00:09	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	09/08/11 00:09	
1,3-Dichlorobenzene	ug/L	ND	5.0	09/08/11 00:09	
1,3-Dichloropropane	ug/L	ND	5.0	09/08/11 00:09	
1,4-Dichlorobenzene	ug/L	ND	5.0	09/08/11 00:09	
2,2-Dichloropropane	ug/L	ND	5.0	09/08/11 00:09	
2-Butanone (MEK)	ug/L	ND	25.0	09/08/11 00:09	
2-Chlorotoluene	ug/L	ND	5.0	09/08/11 00:09	
2-Hexanone	ug/L	ND	25.0	09/08/11 00:09	
4-Chlorotoluene	ug/L	ND	5.0	09/08/11 00:09	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	09/08/11 00:09	
Acetone	ug/L	ND	100	09/08/11 00:09	
Acrolein	ug/L	ND	50.0	09/08/11 00:09	
Acrylonitrile	ug/L	ND	100	09/08/11 00:09	
Benzene	ug/L	ND	5.0	09/08/11 00:09	
Bromobenzene	ug/L	ND	5.0	09/08/11 00:09	
Bromochloromethane	ug/L	ND	5.0	09/08/11 00:09	
Bromodichloromethane	ug/L	ND	5.0	09/08/11 00:09	
Bromoform	ug/L	ND	5.0	09/08/11 00:09	
Bromomethane	ug/L	ND	5.0	09/08/11 00:09	
Carbon disulfide	ug/L	ND	10.0	09/08/11 00:09	
Carbon tetrachloride	ug/L	ND	5.0	09/08/11 00:09	
Chlorobenzene	ug/L	ND	5.0	09/08/11 00:09	
Chloroethane	ug/L	ND	5.0	09/08/11 00:09	
Chloroform	ug/L	ND	5.0	09/08/11 00:09	
Chloromethane	ug/L	ND	5.0	09/08/11 00:09	
cis-1,2-Dichloroethene	ug/L	ND	5.0	09/08/11 00:09	
cis-1,3-Dichloropropene	ug/L	ND	5.0	09/08/11 00:09	
Dibromochloromethane	ug/L	ND	5.0	09/08/11 00:09	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5052261

METHOD BLANK: 619224 Matrix: Water

Associated Lab Samples: 5052261004, 5052261005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	5.0	09/08/11 00:09	
Dichlorodifluoromethane	ug/L	ND	5.0	09/08/11 00:09	
Ethyl methacrylate	ug/L	ND	100	09/08/11 00:09	
Ethylbenzene	ug/L	ND	5.0	09/08/11 00:09	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	09/08/11 00:09	
Iodomethane	ug/L	ND	10.0	09/08/11 00:09	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	09/08/11 00:09	
Methyl-tert-butyl ether	ug/L	ND	4.0	09/08/11 00:09	
Methylene chloride	ug/L	ND	5.0	09/08/11 00:09	
n-Butylbenzene	ug/L	ND	5.0	09/08/11 00:09	
n-Hexane	ug/L	ND	5.0	09/08/11 00:09	N2
n-Propylbenzene	ug/L	ND	5.0	09/08/11 00:09	
Naphthalene	ug/L	ND	5.0	09/08/11 00:09	
p-Isopropyltoluene	ug/L	ND	5.0	09/08/11 00:09	
sec-Butylbenzene	ug/L	ND	5.0	09/08/11 00:09	
Styrene	ug/L	ND	5.0	09/08/11 00:09	
tert-Butylbenzene	ug/L	ND	5.0	09/08/11 00:09	
Tetrachloroethene	ug/L	ND	5.0	09/08/11 00:09	
Toluene	ug/L	ND	5.0	09/08/11 00:09	
trans-1,2-Dichloroethene	ug/L	ND	5.0	09/08/11 00:09	
trans-1,3-Dichloropropene	ug/L	ND	5.0	09/08/11 00:09	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	09/08/11 00:09	
Trichloroethene	ug/L	ND	5.0	09/08/11 00:09	
Trichlorofluoromethane	ug/L	ND	5.0	09/08/11 00:09	
Vinyl acetate	ug/L	ND	50.0	09/08/11 00:09	
Vinyl chloride	ug/L	ND	2.0	09/08/11 00:09	
Xylene (Total)	ug/L	ND	10.0	09/08/11 00:09	
4-Bromofluorobenzene (S)	%	99	72-125	09/08/11 00:09	
Dibromofluoromethane (S)	%	102	83-123	09/08/11 00:09	
Toluene-d8 (S)	%	94	81-114	09/08/11 00:09	

LABORATORY CONTROL SAMPLE: 619225

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	48.9	98	69-122	
1,1,1-Trichloroethane	ug/L	50	51.6	103	69-126	
1,1,2,2-Tetrachloroethane	ug/L	50	44.3	89	68-134	
1,1,2-Trichloroethane	ug/L	50	46.3	93	77-129	
1,1-Dichloroethane	ug/L	50	47.4	95	70-127	
1,1-Dichloroethene	ug/L	50	56.2	112	75-145	
1,1-Dichloropropene	ug/L	50	50.2	100	75-126	
1,2,3-Trichlorobenzene	ug/L	50	46.9	94	63-130	
1,2,3-Trichloropropane	ug/L	100	65.0	65	45-121	
1,2,4-Trichlorobenzene	ug/L	50	45.2	90	64-122	
1,2,4-Trimethylbenzene	ug/L	50	46.5	93	68-129	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5052261

LABORATORY CONTROL SAMPLE: 619225

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	50	46.6	93	77-123	
1,2-Dichlorobenzene	ug/L	50	49.2	98	74-123	
1,2-Dichloroethane	ug/L	50	53.7	107	71-127	
1,2-Dichloropropane	ug/L	50	45.3	91	75-126	
1,3,5-Trimethylbenzene	ug/L	50	47.9	96	69-129	
1,3-Dichlorobenzene	ug/L	50	48.0	96	76-123	
1,3-Dichloropropane	ug/L	50	44.5	89	77-126	
1,4-Dichlorobenzene	ug/L	50	47.4	95	77-121	
2,2-Dichloropropane	ug/L	50	45.1	90	45-138	
2-Butanone (MEK)	ug/L	250	177	71	42-177	
2-Chlorotoluene	ug/L	50	48.2	96	74-129	
2-Hexanone	ug/L	250	174	70	57-162	
4-Chlorotoluene	ug/L	50	49.0	98	70-125	
4-Methyl-2-pentanone (MIBK)	ug/L	250	174	70	64-135	
Acetone	ug/L	250	164	66	10-200	
Acrolein	ug/L	1000	1330	133	10-200	
Acrylonitrile	ug/L	1000	889	89	59-144	
Benzene	ug/L	50	48.2	96	76-123	
Bromobenzene	ug/L	50	47.7	95	67-130	
Bromochloromethane	ug/L	50	47.2	94	58-153	
Bromodichloromethane	ug/L	50	47.6	95	71-124	
Bromoform	ug/L	50	40.1	80	64-116	
Bromomethane	ug/L	50	55.5	111	23-197	
Carbon disulfide	ug/L	100	106	106	55-146	
Carbon tetrachloride	ug/L	50	49.9	100	65-125	
Chlorobenzene	ug/L	50	49.5	99	78-120	
Chloroethane	ug/L	50	53.8	108	56-163	
Chloroform	ug/L	50	49.6	99	73-122	
Chloromethane	ug/L	50	56.6	113	46-146	
cis-1,2-Dichloroethene	ug/L	50	50.1	100	79-129	
cis-1,3-Dichloropropene	ug/L	50	40.1	80	66-123	
Dibromochloromethane	ug/L	50	43.2	86	70-123	
Dibromomethane	ug/L	50	50.2	100	73-123	
Dichlorodifluoromethane	ug/L	50	98.1	196	19-200	
Ethyl methacrylate	ug/L	200	172	86	70-127	
Ethylbenzene	ug/L	50	49.0	98	75-120	
Hexachloro-1,3-butadiene	ug/L	50	49.5	99	64-131	
Iodomethane	ug/L	100	101	101	16-181	
Isopropylbenzene (Cumene)	ug/L	50	51.3	103	73-123	
Methyl-tert-butyl ether	ug/L	100	89.7	90	66-128	
Methylene chloride	ug/L	50	45.0	90	61-138	
n-Butylbenzene	ug/L	50	44.6	89	69-130	
n-Hexane	ug/L	50	42.6	85	67-142	N2
n-Propylbenzene	ug/L	50	45.8	92	71-132	
Naphthalene	ug/L	50	45.2	90	62-130	
p-Isopropyltoluene	ug/L	50	48.9	98	71-126	
sec-Butylbenzene	ug/L	50	47.7	95	69-130	
Styrene	ug/L	50	48.4	97	75-125	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5052261

LABORATORY CONTROL SAMPLE: 619225

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	48.3	97	49-114	
Tetrachloroethene	ug/L	50	48.6	97	57-125	
Toluene	ug/L	50	45.0	90	72-124	
trans-1,2-Dichloroethene	ug/L	50	50.2	100	71-145	
trans-1,3-Dichloropropene	ug/L	50	40.1	80	58-118	
trans-1,4-Dichloro-2-butene	ug/L	200	145	72	50-121	
Trichloroethene	ug/L	50	47.0	94	77-122	
Trichlorofluoromethane	ug/L	50	62.4	125	56-159	
Vinyl acetate	ug/L	200	171	86	27-119	
Vinyl chloride	ug/L	50	55.9	112	61-146	
Xylene (Total)	ug/L	150	147	98	72-126	
4-Bromofluorobenzene (S)	%			100	72-125	
Dibromofluoromethane (S)	%			106	83-123	
Toluene-d8 (S)	%			96	81-114	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 619226 619227

Parameter	Units	5052261005 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/L	ND	50	50	44.5	46.8	89	94	30-122	5	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	46.9	49.6	94	99	37-136	6	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	42.7	45.7	85	91	47-132	7	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	45.2	47.2	90	94	53-131	4	20	
1,1-Dichloroethane	ug/L	ND	50	50	44.6	46.0	89	92	47-138	3	20	
1,1-Dichloroethene	ug/L	ND	50	50	52.2	54.1	104	108	54-152	4	20	
1,1-Dichloropropene	ug/L	ND	50	50	46.8	48.4	94	97	47-136	3	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	42.3	45.0	85	90	15-132	6	20	
1,2,3-Trichloropropane	ug/L	ND	100	100	60.4	65.1	60	65	24-108	7	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	39.4	41.7	79	83	10-130	6	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	43.2	44.6	86	89	10-141	3	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	43.5	45.6	87	91	49-130	5	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	45.1	47.3	90	95	20-137	5	20	
1,2-Dichloroethane	ug/L	ND	50	50	50.4	52.1	101	104	42-139	3	20	
1,2-Dichloropropane	ug/L	ND	50	50	43.5	44.8	87	90	50-131	3	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	44.3	46.0	89	92	10-145	4	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	43.5	45.7	87	91	13-143	5	20	
1,3-Dichloropropane	ug/L	ND	50	50	42.3	43.9	85	88	53-130	4	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	43.3	45.1	87	90	13-140	4	20	
2,2-Dichloropropane	ug/L	ND	50	50	40.2	41.6	80	83	13-142	3	20	
2-Butanone (MEK)	ug/L	ND	250	250	153	165	61	66	43-142	7	20	
2-Chlorotoluene	ug/L	ND	50	50	44.5	46.6	89	93	15-145	5	20	
2-Hexanone	ug/L	ND	250	250	153	166	61	66	46-139	8	20	
4-Chlorotoluene	ug/L	ND	50	50	44.7	46.6	89	93	12-143	4	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	153	166	61	66	43-140	8	20	
Acetone	ug/L	ND	250	250	125	136	50	54	38-155	9	20	
Acrolein	ug/L	ND	1000	1000	1200	1300	120	130	11-200	8	20	
Acrylonitrile	ug/L	ND	1000	1000	819	875	82	88	42-150	7	20	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5052261

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 619226 619227

Parameter	Units	5052261005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	50	50	45.9	47.4	92	95	52-134	3	20	
Bromobenzene	ug/L	ND	50	50	44.0	45.1	88	90	25-140	3	20	
Bromochloromethane	ug/L	ND	50	50	44.6	46.9	89	94	54-144	5	20	
Bromodichloromethane	ug/L	ND	50	50	44.3	45.7	89	91	42-128	3	20	
Bromoform	ug/L	ND	50	50	35.7	38.3	71	77	34-116	7	20	
Bromomethane	ug/L	ND	50	50	63.9	58.9	128	118	10-200	8	20	
Carbon disulfide	ug/L	ND	100	100	99.9	101	100	101	43-144	2	20	
Carbon tetrachloride	ug/L	ND	50	50	44.3	47.0	89	94	26-136	6	20	
Chlorobenzene	ug/L	ND	50	50	46.8	48.2	94	96	33-136	3	20	
Chloroethane	ug/L	ND	50	50	51.7	53.1	103	106	21-200	3	20	
Chloroform	ug/L	ND	50	50	47.2	48.0	94	96	50-134	2	20	
Chloromethane	ug/L	ND	50	50	51.6	54.5	103	109	32-160	5	20	
cis-1,2-Dichloroethene	ug/L	125	50	50	171	169	93	89	48-145	1	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	37.2	39.3	74	79	35-116	5	20	
Dibromochloromethane	ug/L	ND	50	50	38.9	41.5	78	83	39-122	6	20	
Dibromomethane	ug/L	ND	50	50	47.0	49.8	94	100	49-134	6	20	
Dichlorodifluoromethane	ug/L	ND	50	50	88.9	94.7	178	189	35-200	6	20	
Ethyl methacrylate	ug/L	ND	200	200	162	172	81	86	54-123	6	20	
Ethylbenzene	ug/L	ND	50	50	45.6	47.9	91	96	29-132	5	20	
Hexachloro-1,3-butadiene	ug/L	ND	50	50	45.2	47.1	90	94	10-146	4	20	
Iodomethane	ug/L	ND	100	100	85.7	101	86	101	10-171	16	20	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	48.1	49.3	96	99	11-146	3	20	
Methyl-tert-butyl ether	ug/L	ND	100	100	85.3	90.3	85	90	39-137	6	20	
Methylene chloride	ug/L	ND	50	50	41.3	43.1	83	86	47-141	4	20	
n-Butylbenzene	ug/L	ND	50	50	39.6	41.3	79	83	10-156	4	20	
n-Hexane	ug/L	ND	50	50	40.1	41.3	80	83	51-137	3	20	N2
n-Propylbenzene	ug/L	ND	50	50	42.6	44.3	85	89	10-148	4	20	
Naphthalene	ug/L	ND	50	50	42.1	44.6	81	86	40-124	6	20	
p-Isopropyltoluene	ug/L	ND	50	50	44.6	46.4	89	93	10-150	4	20	
sec-Butylbenzene	ug/L	ND	50	50	44.4	46.0	89	92	10-150	4	20	
Styrene	ug/L	ND	50	50	45.8	47.1	92	94	20-143	3	20	
tert-Butylbenzene	ug/L	ND	50	50	45.1	47.1	90	94	10-123	4	20	
Tetrachloroethene	ug/L	ND	50	50	48.3	50.0	93	97	30-124	3	20	
Toluene	ug/L	ND	50	50	42.5	44.1	84	87	42-130	4	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	49.3	50.2	99	100	48-144	2	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	37.2	39.3	74	79	24-114	5	20	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	134	141	67	71	22-120	6	20	
Trichloroethene	ug/L	ND	50	50	42.3	44.6	85	89	44-130	5	20	
Trichlorofluoromethane	ug/L	ND	50	50	59.5	60.7	119	121	17-200	2	20	
Vinyl acetate	ug/L	ND	200	200	165	176	82	88	10-115	6	20	
Vinyl chloride	ug/L	64.8	50	50	107	106	85	83	45-159	1	20	
Xylene (Total)	ug/L	ND	150	150	136	141	91	94	29-131	3	20	
4-Bromofluorobenzene (S)	%						100	101	72-125		20	
Dibromofluoromethane (S)	%						103	105	83-123		20	
Toluene-d8 (S)	%						95	96	81-114		20	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5052261

QC Batch: MSV/35487 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5052261006, 5052261007

METHOD BLANK: 619256 Matrix: Water
Associated Lab Samples: 5052261006, 5052261007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	09/08/11 00:25	
1,1,1-Trichloroethane	ug/L	ND	5.0	09/08/11 00:25	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	09/08/11 00:25	
1,1,2-Trichloroethane	ug/L	ND	5.0	09/08/11 00:25	
1,1-Dichloroethane	ug/L	ND	5.0	09/08/11 00:25	
1,1-Dichloroethene	ug/L	ND	5.0	09/08/11 00:25	
1,1-Dichloropropene	ug/L	ND	5.0	09/08/11 00:25	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	09/08/11 00:25	
1,2,3-Trichloropropane	ug/L	ND	5.0	09/08/11 00:25	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	09/08/11 00:25	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	09/08/11 00:25	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	09/08/11 00:25	
1,2-Dichlorobenzene	ug/L	ND	5.0	09/08/11 00:25	
1,2-Dichloroethane	ug/L	ND	5.0	09/08/11 00:25	
1,2-Dichloropropane	ug/L	ND	5.0	09/08/11 00:25	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	09/08/11 00:25	
1,3-Dichlorobenzene	ug/L	ND	5.0	09/08/11 00:25	
1,3-Dichloropropane	ug/L	ND	5.0	09/08/11 00:25	
1,4-Dichlorobenzene	ug/L	ND	5.0	09/08/11 00:25	
2,2-Dichloropropane	ug/L	ND	5.0	09/08/11 00:25	
2-Butanone (MEK)	ug/L	ND	25.0	09/08/11 00:25	
2-Chlorotoluene	ug/L	ND	5.0	09/08/11 00:25	
2-Hexanone	ug/L	ND	25.0	09/08/11 00:25	
4-Chlorotoluene	ug/L	ND	5.0	09/08/11 00:25	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	09/08/11 00:25	
Acetone	ug/L	ND	100	09/08/11 00:25	
Acrolein	ug/L	ND	50.0	09/08/11 00:25	
Acrylonitrile	ug/L	ND	100	09/08/11 00:25	
Benzene	ug/L	ND	5.0	09/08/11 00:25	
Bromobenzene	ug/L	ND	5.0	09/08/11 00:25	
Bromochloromethane	ug/L	ND	5.0	09/08/11 00:25	
Bromodichloromethane	ug/L	ND	5.0	09/08/11 00:25	
Bromoform	ug/L	ND	5.0	09/08/11 00:25	
Bromomethane	ug/L	ND	5.0	09/08/11 00:25	
Carbon disulfide	ug/L	ND	10.0	09/08/11 00:25	
Carbon tetrachloride	ug/L	ND	5.0	09/08/11 00:25	
Chlorobenzene	ug/L	ND	5.0	09/08/11 00:25	
Chloroethane	ug/L	ND	5.0	09/08/11 00:25	
Chloroform	ug/L	ND	5.0	09/08/11 00:25	
Chloromethane	ug/L	ND	5.0	09/08/11 00:25	
cis-1,2-Dichloroethene	ug/L	ND	5.0	09/08/11 00:25	
cis-1,3-Dichloropropene	ug/L	ND	5.0	09/08/11 00:25	
Dibromochloromethane	ug/L	ND	5.0	09/08/11 00:25	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5052261

METHOD BLANK: 619256 Matrix: Water

Associated Lab Samples: 5052261006, 5052261007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	5.0	09/08/11 00:25	
Dichlorodifluoromethane	ug/L	ND	5.0	09/08/11 00:25	
Ethyl methacrylate	ug/L	ND	100	09/08/11 00:25	
Ethylbenzene	ug/L	ND	5.0	09/08/11 00:25	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	09/08/11 00:25	
Iodomethane	ug/L	ND	10.0	09/08/11 00:25	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	09/08/11 00:25	
Methyl-tert-butyl ether	ug/L	ND	4.0	09/08/11 00:25	
Methylene chloride	ug/L	ND	5.0	09/08/11 00:25	
n-Butylbenzene	ug/L	ND	5.0	09/08/11 00:25	
n-Hexane	ug/L	ND	5.0	09/08/11 00:25	N2
n-Propylbenzene	ug/L	ND	5.0	09/08/11 00:25	
Naphthalene	ug/L	ND	5.0	09/08/11 00:25	
p-Isopropyltoluene	ug/L	ND	5.0	09/08/11 00:25	
sec-Butylbenzene	ug/L	ND	5.0	09/08/11 00:25	
Styrene	ug/L	ND	5.0	09/08/11 00:25	
tert-Butylbenzene	ug/L	ND	5.0	09/08/11 00:25	
Tetrachloroethene	ug/L	ND	5.0	09/08/11 00:25	
Toluene	ug/L	ND	5.0	09/08/11 00:25	
trans-1,2-Dichloroethene	ug/L	ND	5.0	09/08/11 00:25	
trans-1,3-Dichloropropene	ug/L	ND	5.0	09/08/11 00:25	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	09/08/11 00:25	
Trichloroethene	ug/L	ND	5.0	09/08/11 00:25	
Trichlorofluoromethane	ug/L	ND	5.0	09/08/11 00:25	
Vinyl acetate	ug/L	ND	50.0	09/08/11 00:25	
Vinyl chloride	ug/L	ND	2.0	09/08/11 00:25	
Xylene (Total)	ug/L	ND	10.0	09/08/11 00:25	
4-Bromofluorobenzene (S)	%	100	72-125	09/08/11 00:25	
Dibromofluoromethane (S)	%	103	83-123	09/08/11 00:25	
Toluene-d8 (S)	%	95	81-114	09/08/11 00:25	

LABORATORY CONTROL SAMPLE: 619257

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.8	100	69-122	
1,1,1-Trichloroethane	ug/L	50	52.6	105	69-126	
1,1,2,2-Tetrachloroethane	ug/L	50	45.3	91	68-134	
1,1,2-Trichloroethane	ug/L	50	46.2	92	77-129	
1,1-Dichloroethane	ug/L	50	47.8	96	70-127	
1,1-Dichloroethene	ug/L	50	54.1	108	75-145	
1,1-Dichloropropene	ug/L	50	50.8	102	75-126	
1,2,3-Trichlorobenzene	ug/L	50	43.5	87	63-130	
1,2,3-Trichloropropane	ug/L	100	74.3	74	45-121	
1,2,4-Trichlorobenzene	ug/L	50	42.3	85	64-122	
1,2,4-Trimethylbenzene	ug/L	50	44.7	89	68-129	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5052261

LABORATORY CONTROL SAMPLE: 619257

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	50	45.9	92	77-123	
1,2-Dichlorobenzene	ug/L	50	47.1	94	74-123	
1,2-Dichloroethane	ug/L	50	53.7	107	71-127	
1,2-Dichloropropane	ug/L	50	45.3	91	75-126	
1,3,5-Trimethylbenzene	ug/L	50	46.6	93	69-129	
1,3-Dichlorobenzene	ug/L	50	46.5	93	76-123	
1,3-Dichloropropane	ug/L	50	45.4	91	77-126	
1,4-Dichlorobenzene	ug/L	50	45.5	91	77-121	
2,2-Dichloropropane	ug/L	50	46.6	93	45-138	
2-Butanone (MEK)	ug/L	250	179	71	42-177	
2-Chlorotoluene	ug/L	50	47.0	94	74-129	
2-Hexanone	ug/L	250	187	75	57-162	
4-Chlorotoluene	ug/L	50	48.0	96	70-125	
4-Methyl-2-pentanone (MIBK)	ug/L	250	179	72	64-135	
Acetone	ug/L	250	181	72	10-200	
Acrolein	ug/L	1000	1180	118	10-200	
Acrylonitrile	ug/L	1000	871	87	59-144	
Benzene	ug/L	50	48.9	98	76-123	
Bromobenzene	ug/L	50	45.4	91	67-130	
Bromochloromethane	ug/L	50	44.7	89	58-153	
Bromodichloromethane	ug/L	50	51.5	103	71-124	
Bromoform	ug/L	50	41.8	84	64-116	
Bromomethane	ug/L	50	57.3	115	23-197	
Carbon disulfide	ug/L	100	104	104	55-146	
Carbon tetrachloride	ug/L	50	51.2	102	65-125	
Chlorobenzene	ug/L	50	48.8	98	78-120	
Chloroethane	ug/L	50	47.3	95	56-163	
Chloroform	ug/L	50	49.4	99	73-122	
Chloromethane	ug/L	50	46.9	94	46-146	
cis-1,2-Dichloroethene	ug/L	50	50.5	101	79-129	
cis-1,3-Dichloropropene	ug/L	50	41.7	83	66-123	
Dibromochloromethane	ug/L	50	43.1	86	70-123	
Dibromomethane	ug/L	50	51.5	103	73-123	
Dichlorodifluoromethane	ug/L	50	88.0	176	19-200	
Ethyl methacrylate	ug/L	200	186	93	70-127	
Ethylbenzene	ug/L	50	46.9	94	75-120	
Hexachloro-1,3-butadiene	ug/L	50	45.8	92	64-131	
Iodomethane	ug/L	100	121	121	16-181	
Isopropylbenzene (Cumene)	ug/L	50	50.7	101	73-123	
Methyl-tert-butyl ether	ug/L	100	98.5	98	66-128	
Methylene chloride	ug/L	50	44.8	90	61-138	
n-Butylbenzene	ug/L	50	42.4	85	69-130	
n-Hexane	ug/L	50	42.7	85	67-142	N2
n-Propylbenzene	ug/L	50	45.0	90	71-132	
Naphthalene	ug/L	50	42.8	86	62-130	
p-Isopropyltoluene	ug/L	50	47.2	94	71-126	
sec-Butylbenzene	ug/L	50	47.1	94	69-130	
Styrene	ug/L	50	48.2	96	75-125	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5052261

LABORATORY CONTROL SAMPLE: 619257

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	47.1	94	49-114	
Tetrachloroethene	ug/L	50	48.0	96	57-125	
Toluene	ug/L	50	44.1	88	72-124	
trans-1,2-Dichloroethene	ug/L	50	50.5	101	71-145	
trans-1,3-Dichloropropene	ug/L	50	41.3	83	58-118	
trans-1,4-Dichloro-2-butene	ug/L	200	161	80	50-121	
Trichloroethene	ug/L	50	46.0	92	77-122	
Trichlorofluoromethane	ug/L	50	53.6	107	56-159	
Vinyl acetate	ug/L	200	173	87	27-119	
Vinyl chloride	ug/L	50	47.9	96	61-146	
Xylene (Total)	ug/L	150	139	93	72-126	
4-Bromofluorobenzene (S)	%			101	72-125	
Dibromofluoromethane (S)	%			106	83-123	
Toluene-d8 (S)	%			95	81-114	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 619258 619259

Parameter	Units	5052171005 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/L	ND	50	50	52.0	49.0	104	98	30-122	6	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	55.6	52.4	111	105	37-136	6	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	49.7	45.4	99	91	47-132	9	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	51.5	48.8	103	98	53-131	5	20	
1,1-Dichloroethane	ug/L	ND	50	50	52.2	48.9	104	98	47-138	6	20	
1,1-Dichloroethene	ug/L	ND	50	50	57.3	55.5	115	111	54-152	3	20	
1,1-Dichloropropene	ug/L	ND	50	50	54.5	52.6	109	105	47-136	4	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	44.4	44.5	89	89	15-132	.3	20	
1,2,3-Trichloropropane	ug/L	ND	100	100	79.5	71.8	80	72	24-108	10	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	42.9	43.6	86	87	10-130	2	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	46.5	46.1	93	92	10-141	.9	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	51.3	47.8	103	96	49-130	7	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	49.8	48.7	100	97	20-137	2	20	
1,2-Dichloroethane	ug/L	ND	50	50	58.1	54.9	116	110	42-139	6	20	
1,2-Dichloropropane	ug/L	ND	50	50	49.4	46.5	99	93	50-131	6	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	48.5	47.9	97	96	10-145	1	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	49.4	47.8	99	96	13-143	3	20	
1,3-Dichloropropane	ug/L	ND	50	50	49.8	46.9	100	94	53-130	6	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	47.9	46.8	96	94	13-140	2	20	
2,2-Dichloropropane	ug/L	ND	50	50	48.8	46.7	98	93	13-142	4	20	
2-Butanone (MEK)	ug/L	ND	250	250	177	164	71	65	43-142	8	20	
2-Chlorotoluene	ug/L	ND	50	50	49.4	48.1	99	96	15-145	3	20	
2-Hexanone	ug/L	ND	250	250	201	181	80	72	46-139	10	20	
4-Chlorotoluene	ug/L	ND	50	50	50.7	50.1	101	100	12-143	1	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	196	181	78	72	43-140	8	20	
Acetone	ug/L	ND	250	250	153	139	61	56	38-155	9	20	
Acrolein	ug/L	ND	1000	1000	1190	1080	119	108	11-200	9	20	
Acrylonitrile	ug/L	ND	1000	1000	961	877	96	88	42-150	9	20	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5052261

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 619258 619259

Parameter	Units	5052171005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	50	50	52.3	50.3	105	101	52-134	4	20	
Bromobenzene	ug/L	ND	50	50	49.2	48.5	98	97	25-140	1	20	
Bromochloromethane	ug/L	ND	50	50	49.8	46.6	100	93	54-144	7	20	
Bromodichloromethane	ug/L	ND	50	50	54.3	50.4	109	101	42-128	8	20	
Bromoform	ug/L	ND	50	50	41.3	38.4	83	77	34-116	7	20	
Bromomethane	ug/L	ND	50	50	63.1	61.7	126	123	10-200	2	20	
Carbon disulfide	ug/L	ND	100	100	112	107	112	107	43-144	4	20	
Carbon tetrachloride	ug/L	ND	50	50	52.4	48.7	105	97	26-136	7	20	
Chlorobenzene	ug/L	ND	50	50	53.2	51.7	106	103	33-136	3	20	
Chloroethane	ug/L	ND	50	50	50.1	48.3	100	97	21-200	4	20	
Chloroform	ug/L	ND	50	50	53.1	50.9	106	102	50-134	4	20	
Chloromethane	ug/L	ND	50	50	52.5	49.7	105	99	32-160	5	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	54.9	52.4	110	105	48-145	5	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	44.8	42.3	90	85	35-116	6	20	
Dibromochloromethane	ug/L	ND	50	50	45.6	42.1	91	84	39-122	8	20	
Dibromomethane	ug/L	ND	50	50	55.1	51.7	110	103	49-134	7	20	
Dichlorodifluoromethane	ug/L	ND	50	50	93.1	89.9	186	180	35-200	3	20	
Ethyl methacrylate	ug/L	ND	200	200	202	191	101	95	54-123	5	20	
Ethylbenzene	ug/L	ND	50	50	50.8	49.4	102	99	29-132	3	20	
Hexachloro-1,3-butadiene	ug/L	ND	50	50	48.0	47.7	96	95	10-146	.7	20	
Iodomethane	ug/L	ND	100	100	128	124	128	124	10-171	3	20	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	54.6	53.3	109	107	11-146	2	20	
Methyl-tert-butyl ether	ug/L	ND	100	100	107	99.9	107	100	39-137	7	20	
Methylene chloride	ug/L	ND	50	50	47.4	45.1	95	90	47-141	5	20	
n-Butylbenzene	ug/L	ND	50	50	43.6	44.1	87	88	10-156	1	20	
n-Hexane	ug/L	ND	50	50	45.7	44.0	91	88	51-137	4	20	N2
n-Propylbenzene	ug/L	ND	50	50	46.8	46.1	94	92	10-148	1	20	
Naphthalene	ug/L	ND	50	50	44.1	43.8	88	88	40-124	.6	20	
p-Isopropyltoluene	ug/L	ND	50	50	49.1	48.6	98	97	10-150	1	20	
sec-Butylbenzene	ug/L	ND	50	50	49.2	48.2	98	96	10-150	2	20	
Styrene	ug/L	ND	50	50	51.3	50.1	103	100	20-143	2	20	
tert-Butylbenzene	ug/L	ND	50	50	50.0	48.9	100	98	10-123	2	20	
Tetrachloroethene	ug/L	ND	50	50	52.3	51.2	105	102	30-124	2	20	
Toluene	ug/L	ND	50	50	47.3	46.1	95	92	42-130	3	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	55.0	52.1	110	104	48-144	5	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	43.3	40.5	87	81	24-114	7	20	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	178	162	89	81	22-120	9	20	
Trichloroethene	ug/L	ND	50	50	48.9	47.2	98	94	44-130	4	20	
Trichlorofluoromethane	ug/L	ND	50	50	57.5	55.1	115	110	17-200	4	20	
Vinyl acetate	ug/L	ND	200	200	152	141	76	71	10-115	7	20	
Vinyl chloride	ug/L	ND	50	50	51.8	49.7	104	99	45-159	4	20	
Xylene (Total)	ug/L	ND	150	150	149	146	100	97	29-131	3	20	
4-Bromofluorobenzene (S)	%						101	102	72-125		20	
Dibromofluoromethane (S)	%						106	103	83-123		20	
Toluene-d8 (S)	%						95	96	81-114		20	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5052261

QC Batch: MSV/35484 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 5052261001, 5052261002, 5052261003

METHOD BLANK: 619233 Matrix: Solid
Associated Lab Samples: 5052261001, 5052261002, 5052261003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	09/08/11 00:09	
1,1,1-Trichloroethane	ug/kg	ND	5.0	09/08/11 00:09	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	09/08/11 00:09	
1,1,2-Trichloroethane	ug/kg	ND	5.0	09/08/11 00:09	
1,1-Dichloroethane	ug/kg	ND	5.0	09/08/11 00:09	
1,1-Dichloroethene	ug/kg	ND	5.0	09/08/11 00:09	
1,1-Dichloropropene	ug/kg	ND	5.0	09/08/11 00:09	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	09/08/11 00:09	
1,2,3-Trichloropropane	ug/kg	ND	5.0	09/08/11 00:09	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	09/08/11 00:09	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	09/08/11 00:09	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	09/08/11 00:09	
1,2-Dichlorobenzene	ug/kg	ND	5.0	09/08/11 00:09	
1,2-Dichloroethane	ug/kg	ND	5.0	09/08/11 00:09	
1,2-Dichloropropane	ug/kg	ND	5.0	09/08/11 00:09	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	09/08/11 00:09	
1,3-Dichlorobenzene	ug/kg	ND	5.0	09/08/11 00:09	
1,3-Dichloropropane	ug/kg	ND	5.0	09/08/11 00:09	
1,4-Dichlorobenzene	ug/kg	ND	5.0	09/08/11 00:09	
2,2-Dichloropropane	ug/kg	ND	5.0	09/08/11 00:09	
2-Butanone (MEK)	ug/kg	ND	25.0	09/08/11 00:09	
2-Chlorotoluene	ug/kg	ND	5.0	09/08/11 00:09	
2-Hexanone	ug/kg	ND	100	09/08/11 00:09	
4-Chlorotoluene	ug/kg	ND	5.0	09/08/11 00:09	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	09/08/11 00:09	
Acetone	ug/kg	ND	100	09/08/11 00:09	
Acrolein	ug/kg	ND	100	09/08/11 00:09	
Acrylonitrile	ug/kg	ND	100	09/08/11 00:09	
Benzene	ug/kg	ND	5.0	09/08/11 00:09	
Bromobenzene	ug/kg	ND	5.0	09/08/11 00:09	
Bromochloromethane	ug/kg	ND	5.0	09/08/11 00:09	
Bromodichloromethane	ug/kg	ND	5.0	09/08/11 00:09	
Bromoform	ug/kg	ND	5.0	09/08/11 00:09	
Bromomethane	ug/kg	ND	5.0	09/08/11 00:09	
Carbon disulfide	ug/kg	ND	10.0	09/08/11 00:09	
Carbon tetrachloride	ug/kg	ND	5.0	09/08/11 00:09	
Chlorobenzene	ug/kg	ND	5.0	09/08/11 00:09	
Chloroethane	ug/kg	ND	5.0	09/08/11 00:09	
Chloroform	ug/kg	ND	5.0	09/08/11 00:09	
Chloromethane	ug/kg	ND	5.0	09/08/11 00:09	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	09/08/11 00:09	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	09/08/11 00:09	
Dibromochloromethane	ug/kg	ND	5.0	09/08/11 00:09	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5052261

METHOD BLANK: 619233 Matrix: Solid

Associated Lab Samples: 5052261001, 5052261002, 5052261003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	5.0	09/08/11 00:09	
Dichlorodifluoromethane	ug/kg	ND	5.0	09/08/11 00:09	
Ethyl methacrylate	ug/kg	ND	100	09/08/11 00:09	
Ethylbenzene	ug/kg	ND	5.0	09/08/11 00:09	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	09/08/11 00:09	
Iodomethane	ug/kg	ND	100	09/08/11 00:09	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	09/08/11 00:09	
Methyl-tert-butyl ether	ug/kg	ND	5.0	09/08/11 00:09	
Methylene chloride	ug/kg	ND	20.0	09/08/11 00:09	
n-Butylbenzene	ug/kg	ND	5.0	09/08/11 00:09	
n-Hexane	ug/kg	ND	5.0	09/08/11 00:09	N2
n-Propylbenzene	ug/kg	ND	5.0	09/08/11 00:09	
Naphthalene	ug/kg	ND	5.0	09/08/11 00:09	
p-Isopropyltoluene	ug/kg	ND	5.0	09/08/11 00:09	
sec-Butylbenzene	ug/kg	ND	5.0	09/08/11 00:09	
Styrene	ug/kg	ND	5.0	09/08/11 00:09	
tert-Butylbenzene	ug/kg	ND	5.0	09/08/11 00:09	
Tetrachloroethene	ug/kg	ND	5.0	09/08/11 00:09	
Toluene	ug/kg	ND	5.0	09/08/11 00:09	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	09/08/11 00:09	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	09/08/11 00:09	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	09/08/11 00:09	
Trichloroethene	ug/kg	ND	5.0	09/08/11 00:09	
Trichlorofluoromethane	ug/kg	ND	5.0	09/08/11 00:09	
Vinyl acetate	ug/kg	ND	100	09/08/11 00:09	
Vinyl chloride	ug/kg	ND	5.0	09/08/11 00:09	
Xylene (Total)	ug/kg	ND	10.0	09/08/11 00:09	
4-Bromofluorobenzene (S)	%	99	67-134	09/08/11 00:09	
Dibromofluoromethane (S)	%	102	71-125	09/08/11 00:09	
Toluene-d8 (S)	%	94	76-124	09/08/11 00:09	

LABORATORY CONTROL SAMPLE: 619234

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	48.9	98	70-118	
1,1,1-Trichloroethane	ug/kg	50	51.6	103	73-123	
1,1,2,2-Tetrachloroethane	ug/kg	50	44.3	89	71-127	
1,1,2-Trichloroethane	ug/kg	50	46.3	93	78-124	
1,1-Dichloroethane	ug/kg	50	47.4	95	73-122	
1,1-Dichloroethene	ug/kg	50	56.2	112	80-137	
1,1-Dichloropropene	ug/kg	50	50.2	100	77-121	
1,2,3-Trichlorobenzene	ug/kg	50	46.9	94	67-125	
1,2,3-Trichloropropane	ug/kg	100	65.0	65	47-117	
1,2,4-Trichlorobenzene	ug/kg	50	45.2	90	64-121	
1,2,4-Trimethylbenzene	ug/kg	50	46.5	93	70-122	

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(317)875-5894

QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5052261

LABORATORY CONTROL SAMPLE: 619234

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/kg	50	46.6	93	79-119	
1,2-Dichlorobenzene	ug/kg	50	49.2	98	76-120	
1,2-Dichloroethane	ug/kg	50	53.7	107	72-125	
1,2-Dichloropropane	ug/kg	50	45.3	91	76-121	
1,3,5-Trimethylbenzene	ug/kg	50	47.9	96	70-122	
1,3-Dichlorobenzene	ug/kg	50	48.0	96	78-120	
1,3-Dichloropropane	ug/kg	50	44.5	89	78-121	
1,4-Dichlorobenzene	ug/kg	50	47.4	95	77-117	
2,2-Dichloropropane	ug/kg	50	45.1	90	55-128	
2-Butanone (MEK)	ug/kg	250	177	71	39-186	
2-Chlorotoluene	ug/kg	50	48.2	96	76-122	
2-Hexanone	ug/kg	250	174	70	53-168	
4-Chlorotoluene	ug/kg	50	49.0	98	73-121	
4-Methyl-2-pentanone (MIBK)	ug/kg	250	174	70	67-124	
Acetone	ug/kg	250	164	66	10-200	
Acrolein	ug/kg	1000	1330	133	10-200	
Acrylonitrile	ug/kg	1000	889	89	70-126	
Benzene	ug/kg	50	48.2	96	77-123	
Bromobenzene	ug/kg	50	47.7	95	73-120	
Bromochloromethane	ug/kg	50	47.2	94	70-131	
Bromodichloromethane	ug/kg	50	47.6	95	74-120	
Bromoform	ug/kg	50	40.1	80	65-116	
Bromomethane	ug/kg	50	55.5	111	18-190	
Carbon disulfide	ug/kg	100	106	106	68-127	
Carbon tetrachloride	ug/kg	50	49.9	100	65-127	
Chlorobenzene	ug/kg	50	49.5	99	80-116	
Chloroethane	ug/kg	50	53.8	108	55-159	
Chloroform	ug/kg	50	49.6	99	74-118	
Chloromethane	ug/kg	50	56.6	113	56-142	
cis-1,2-Dichloroethene	ug/kg	50	50.1	100	82-125	
cis-1,3-Dichloropropene	ug/kg	50	40.1	80	67-118	
Dibromochloromethane	ug/kg	50	43.2	86	70-123	
Dibromomethane	ug/kg	50	50.2	100	76-121	
Dichlorodifluoromethane	ug/kg	50	98.1	196	25-200	
Ethyl methacrylate	ug/kg	200	172	86	70-122	
Ethylbenzene	ug/kg	50	49.0	98	77-120	
Hexachloro-1,3-butadiene	ug/kg	50	49.5	99	64-127	
Iodomethane	ug/kg	100	101	101	26-171	
Isopropylbenzene (Cumene)	ug/kg	50	51.3	103	75-118	
Methyl-tert-butyl ether	ug/kg	100	89.7	90	69-125	
Methylene chloride	ug/kg	50	45.0	90	66-128	
n-Butylbenzene	ug/kg	50	44.6	89	68-126	
n-Hexane	ug/kg	50	42.6	85	71-148	N2
n-Propylbenzene	ug/kg	50	45.8	92	74-124	
Naphthalene	ug/kg	50	45.2	90	68-129	
p-Isopropyltoluene	ug/kg	50	48.9	98	71-123	
sec-Butylbenzene	ug/kg	50	47.7	95	70-126	
Styrene	ug/kg	50	48.4	97	76-120	

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(317)875-5894

QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5052261

LABORATORY CONTROL SAMPLE: 619234

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/kg	50	48.3	97	46-117	
Tetrachloroethene	ug/kg	50	48.6	97	69-112	
Toluene	ug/kg	50	45.0	90	74-121	
trans-1,2-Dichloroethene	ug/kg	50	50.2	100	79-134	
trans-1,3-Dichloropropene	ug/kg	50	40.1	80	59-113	
trans-1,4-Dichloro-2-butene	ug/kg	200	145	72	51-118	
Trichloroethene	ug/kg	50	47.0	94	79-119	
Trichlorofluoromethane	ug/kg	50	62.4	125	57-151	
Vinyl acetate	ug/kg	200	171	86	29-122	
Vinyl chloride	ug/kg	50	55.9	112	69-138	
Xylene (Total)	ug/kg	150	147	98	75-122	
4-Bromofluorobenzene (S)	%			100	67-134	
Dibromofluoromethane (S)	%			106	71-125	
Toluene-d8 (S)	%			96	76-124	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 619235 619236

Parameter	Units	5052261001 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	1060	1060	977	963	92	90	10-111	1	20	
1,1,1-Trichloroethane	ug/kg	ND	1060	1060	1010	1000	95	94	36-128	1	20	
1,1,2,2-Tetrachloroethane	ug/kg	ND	1060	1060	935	923	88	87	10-130	1	20	
1,1,2-Trichloroethane	ug/kg	ND	1060	1060	980	959	92	90	10-126	2	20	
1,1-Dichloroethane	ug/kg	ND	1060	1060	983	963	92	90	39-126	2	20	
1,1-Dichloroethene	ug/kg	ND	1060	1060	1140	1110	107	104	42-147	2	20	
1,1-Dichloropropene	ug/kg	ND	1060	1060	1050	1030	99	96	29-129	3	20	
1,2,3-Trichlorobenzene	ug/kg	ND	1060	1060	949	935	89	88	10-91	1	20	
1,2,3-Trichloropropane	ug/kg	ND	2130	2130	1430	1390	67	65	10-99	2	20	
1,2,4-Trichlorobenzene	ug/kg	ND	1060	1060	945	912	89	86	10-88	4	20	M0
1,2,4-Trimethylbenzene	ug/kg	ND	1060	1060	989	960	93	90	10-109	3	20	
1,2-Dibromoethane (EDB)	ug/kg	ND	1060	1060	978	954	92	90	10-119	2	20	
1,2-Dichlorobenzene	ug/kg	ND	1060	1060	1020	1010	96	95	10-104	1	20	
1,2-Dichloroethane	ug/kg	ND	1060	1060	1130	1110	106	104	19-126	2	20	
1,2-Dichloropropane	ug/kg	ND	1060	1060	971	942	91	88	24-123	3	20	
1,3,5-Trimethylbenzene	ug/kg	ND	1060	1060	1010	990	95	93	10-118	2	20	
1,3-Dichlorobenzene	ug/kg	ND	1060	1060	1020	981	95	92	10-108	4	20	
1,3-Dichloropropane	ug/kg	ND	1060	1060	958	950	90	89	12-121	.8	20	
1,4-Dichlorobenzene	ug/kg	ND	1060	1060	992	973	93	91	10-104	2	20	
2,2-Dichloropropane	ug/kg	ND	1060	1060	930	911	87	86	32-124	2	20	
2-Butanone (MEK)	ug/kg	ND	5320	5320	4560	4270	86	80	10-183	7	20	
2-Chlorotoluene	ug/kg	ND	1060	1060	1030	1000	97	94	10-128	3	20	
2-Hexanone	ug/kg	ND	5320	5320	4210	4050	79	76	10-158	4	20	
4-Chlorotoluene	ug/kg	ND	1060	1060	1040	1020	98	95	10-119	3	20	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	5320	5320	4210	4050	79	76	12-130	4	20	
Acetone	ug/kg	ND	5320	5320	4870	4340	91	81	10-200	12	20	
Acrolein	ug/kg	ND	21300	21300	24900	25900	117	121	10-200	4	20	
Acrylonitrile	ug/kg	ND	21300	21300	19000	18800	89	88	19-130	1	20	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5052261

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 619235 619236

Parameter	Units	5052261001 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	1060	1060	1020	1000	96	94	23-138	2	20	
Bromobenzene	ug/kg	ND	1060	1060	1000	968	94	91	10-111	4	20	
Bromochloromethane	ug/kg	ND	1060	1060	908	878	85	82	26-126	3	20	
Bromodichloromethane	ug/kg	ND	1060	1060	928	893	87	84	10-120	4	20	
Bromoform	ug/kg	ND	1060	1060	743	710	70	67	10-106	5	20	
Bromomethane	ug/kg	ND	1060	1060	292	336	27	32	10-190	14	20	
Carbon disulfide	ug/kg	ND	2130	2130	2150	2080	101	98	31-128	3	20	
Carbon tetrachloride	ug/kg	ND	1060	1060	910	882	85	83	26-126	3	20	
Chlorobenzene	ug/kg	ND	1060	1060	1060	1030	100	97	10-120	3	20	
Chloroethane	ug/kg	ND	1060	1060	502	487	47	46	18-186	3	20	
Chloroform	ug/kg	ND	1060	1060	1040	1010	98	95	29-126	3	20	
Chloromethane	ug/kg	ND	1060	1060	1150	1160	108	109	34-131	1	20	
cis-1,2-Dichloroethene	ug/kg	ND	1060	1060	1050	1040	99	98	28-132	.8	20	
cis-1,3-Dichloropropene	ug/kg	ND	1060	1060	797	777	75	73	10-108	2	20	
Dibromochloromethane	ug/kg	ND	1060	1060	845	809	79	76	10-108	4	20	
Dibromomethane	ug/kg	ND	1060	1060	1040	1030	98	97	13-122	1	20	
Dichlorodifluoromethane	ug/kg	ND	1060	1060	2080	2040	195	191	10-197	2	20	
Ethyl methacrylate	ug/kg	ND	4260	4260	3650	3580	86	84	10-130	2	20	
Ethylbenzene	ug/kg	ND	1060	1060	1050	1000	99	94	10-135	5	20	
Hexachloro-1,3-butadiene	ug/kg	ND	1060	1060	1030	1010	97	94	10-105	3	20	
Iodomethane	ug/kg	ND	2130	2130	1170J	1590J	55	74	10-163		20	
Isopropylbenzene (Cumene)	ug/kg	ND	1060	1060	1100	1050	103	98	10-121	5	20	
Methyl-tert-butyl ether	ug/kg	ND	2130	2130	2020	2010	95	94	20-140	.4	20	
Methylene chloride	ug/kg	ND	1060	1060	969	941	91	88	28-131	3	20	
n-Butylbenzene	ug/kg	ND	1060	1060	942	912	88	86	10-110	3	20	
n-Hexane	ug/kg	ND	1060	1060	882	866	83	81	21-150	2	20	N2
n-Propylbenzene	ug/kg	ND	1060	1060	968	941	91	88	10-123	3	20	
Naphthalene	ug/kg	ND	1060	1060	959	962	90	90	10-106	.4	20	
p-Isopropyltoluene	ug/kg	ND	1060	1060	1040	998	97	94	10-117	4	20	
sec-Butylbenzene	ug/kg	ND	1060	1060	1020	983	95	92	10-123	3	20	
Styrene	ug/kg	ND	1060	1060	1030	997	97	94	10-119	4	20	
tert-Butylbenzene	ug/kg	ND	1060	1060	1020	1000	96	94	10-105	2	20	
Tetrachloroethene	ug/kg	51300	1060	1060	31000	30400	-1910	-1970	10-122	2	20	M0
Toluene	ug/kg	ND	1060	1060	951	921	89	86	10-131	3	20	
trans-1,2-Dichloroethene	ug/kg	ND	1060	1060	1050	1020	98	96	32-136	2	20	
trans-1,3-Dichloropropene	ug/kg	ND	1060	1060	797	777	75	73	10-101	2	20	
trans-1,4-Dichloro-2-butene	ug/kg	ND	4260	4260	3220	3110	75	73	10-104	3	20	
Trichloroethene	ug/kg	ND	1060	1060	992	984	90	89	15-133	.8	20	
Trichlorofluoromethane	ug/kg	ND	1060	1060	1150	1100	108	103	37-152	5	20	
Vinyl acetate	ug/kg	ND	4260	4260	2920	3190	69	75	10-103	9	20	
Vinyl chloride	ug/kg	ND	1060	1060	1180	1150	111	108	41-147	2	20	
Xylene (Total)	ug/kg	ND	3190	3190	3090	2980	97	93	10-131	4	20	
4-Bromofluorobenzene (S)	%						100	99	67-134		20	
Dibromofluoromethane (S)	%						102	102	71-125		20	
Toluene-d8 (S)	%						95	95	76-124		20	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5052261

QC Batch: PMST/6222 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 5052261001, 5052261002, 5052261003

SAMPLE DUPLICATE: 618117

Parameter	Units	5052229001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	3.5	3.3	6	5	R2

SAMPLE DUPLICATE: 618118

Parameter	Units	5052261001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	1.4	1.7	18	5	R2

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5052261

QC Batch: WET/9826 Analysis Method: Walkley Black
QC Batch Method: Walkley Black Analysis Description: Organic Carbon Walkley Black
Associated Lab Samples: 5052261001, 5052261002, 5052261003

METHOD BLANK: 500548 Matrix: Solid
Associated Lab Samples: 5052261001, 5052261002, 5052261003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/kg	ND	400	09/09/11 13:44	

LABORATORY CONTROL SAMPLE: 500549

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/kg	16000	15200	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 500550 500551

Parameter	Units	5051974019 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	1230	16000	16000	16700	16500	97	95	80-120	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 500552 500553

Parameter	Units	5052261001 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	6770	16000	16000	20200	19800	84	82	80-120	2	20	

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QUALIFIERS

Project: Michigan Plaza M01046
Pace Project No.: 5052261

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.

LABORATORIES

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

ANALYTE QUALIFIERS

1d	Benzene ND at an estimated RL 34ug/kg, based on the MDL. aa 9/8/11
2d	Due to the high concentration of PCE a lower dilution was not analyzed. aa 9/8/11
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.
R2	RPD value was outside control limits due to matrix interference

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Michigan Plaza M01046
Pace Project No.: 5052261

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5052261004	**SBP12D:260**	EPA 8260	MSV/35483		
5052261005	**SBP12D:360**	EPA 8260	MSV/35483		
5052261006	**FD-2**	EPA 8260	MSV/35487		
5052261007	**Trip Blank**	EPA 8260	MSV/35487		
5052261001	**SBP12D:160180**	EPA 8260	MSV/35484		
5052261002	**SBP12D:360370**	EPA 8260	MSV/35484		
5052261003	**FD-1**	EPA 8260	MSV/35484		
5052261001	**SBP12D:160180**	ASTM D2974-87	PMST/6222		
5052261002	**SBP12D:360370**	ASTM D2974-87	PMST/6222		
5052261003	**FD-1**	ASTM D2974-87	PMST/6222		
5052261001	**SBP12D:160180**	Walkley Black	WET/9826		
5052261002	**SBP12D:360370**	Walkley Black	WET/9826		
5052261003	**FD-1**	Walkley Black	WET/9826		

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MUNDELL & ASSOCIATES

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

Section A — Required Client Information:

Company:	M+A
Address:	110 S. Downey INFLS IN
Email To:	swebb@mundellassociates.com
Phone:	Fax:
Requested Due Date/TAT:	1 week

Section B — Required Project Information:

Report To:	Sarah Webb
Copy To:	
Purchase Order No.:	
Project Name:	
Project Number:	M01046

Section C — Invoice Information:

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

REGULATORY AGENCY

NPDES, GROUND WATER, DRINKING WATER, UST, RCRA, OTHER

Site Location STATE: IN

Section D — Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	COLLECTED DATE	COLLECTED 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	8260 Full	Walkley Black	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SBP12D:160180	S	G	9/1/11	9:30			06	6	X									X	X		MS/MSD 001
2	SBP12D:260	W			1145				3				X						X			004
3	SBP12D:360370	S			1030				2	X									X	X		002
4	SBP12D:360	W			1115				9				X						X			MS/MSD 005
5	FD-1	S							2	X									X	X		003
6	FD-2	W							3				X						X			006
7	TB								3											X		007
8	[illegible]								1													
9																						
10																						
11																						
12																						

5052261

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature]	11:15	9/2/11	[signature]	9/2/11	11:15	0	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Sarah Webb

SIGNATURE of SAMPLER: [signature] (MM/DD/YY): 9/1/11

WI/Pace
Kee 9-2-11
1230

Sample Condition Upon Receipt

Pace Analytical

Client Name: Mundell & Assoc. Project # 30552261

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: 9/2/11 1257

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): 0.1 °C Ice Visible in Sample Containers: ☐ yes ☒ no

Temp should be above freezing to 6°C

Date and Initials of person examining contents: Lee 9-2-11

			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. T.C. kits
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. Line 5 - COC says FD-1 but T.C. vials only say FD
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. All vials contain headspace
Trip Blank Present:	☑Yes	☐No ☐N/A	11. ~~3 T.B. vials in same cooler with~~ ~~Project # M08077 - Put with that proj.~~ 9/2/11 TMS
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:** 9/2/11

Sample Container Count

CLIENT: Mundell & Assoc

COC PAGE 1 of 1

COC ID# _____

Project # 5052261

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

MUNDELL & ASSOCIATES

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

Section A — Required Client Information:

Company:	M+A
Address:	110 S. Downey INFLS IN
Email To:	swebb@mundellassociates.com
Phone:	Fax:
Requested Due Date/TAT:	1 week

Section B — Required Project Information:

Report To:	Sarah Webb
Copy To:	
Purchase Order No.:	
Project Name:	
Project Number:	M01046

Section C — Invoice Information:

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

REGULATORY AGENCY

NPDES, GROUND WATER, DRINKING WATER, UST, RCRA, OTHER

Site Location STATE: IN

Section D — Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

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)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	COLLECTED DATE	COLLECTED 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	8260 Full	Walkley Blk	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SBP12D:160180	S	G	9/1/11	9:30			06	6	X									X	X		MS/MSD 001
2	SBP12D:260	W			1145				3				X						X			004
3	SBP12D:360370	S			1030				2	X									X	X		002
4	SBP12D:360	W			1115				9				X						X			MS/MSD 005
5	FD-1	S							2	X									X	X		003
6	FD-2	W							3				X						X			006
7	TB								3											X		007
8	[illegible]								1													
9																						
10																						
11																						
12																						

5052261

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature]	11:15	9/2/11	[signature]	9/2/11	11:15	0.1	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Sarah Webb

SIGNATURE of SAMPLER: [signature] (MM/DD/YY): 9/1/11

WI/Pace
Kee 9-2-11
1230

Sample Condition Upon Receipt

Pace Analytical

Client Name: Mundell & Assoc. Project # 30552261

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: 9/2/11 1257

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): 0.1 °C Ice Visible in Sample Containers: ☐ yes ☒ no

Temp should be above freezing to 6°C

Date and Initials of person examining contents: Lee 9-2-11

			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. T.C. kits
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. Line 5 - COC says FD-1 but T.C. vials only say FD
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. All vials contain headspace
Trip Blank Present:	☑Yes	☐No ☐N/A	11. ~~3 T.B. vials in same cooler with~~ ~~Project # M08077 - Put with that proj.~~ 9/2/11 TMS
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:** 9/2/11

Sample Container Count

CLIENT: Mundell & Assoc

COC PAGE 1 of 1

COC ID# _____

Project # 5052261

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

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

December 14, 2011

Ms. Sarah Webb
Mundell & Associates
110 South Downey Ave.
Indianapolis, IN 46219

RE: Project: Michigan Plaza M01046
Pace Project No.: 5055573

Dear Ms. Webb:
Enclosed are the analytical results for sample(s) received by the laboratory on December 07, 2011. 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@pacelabs.com
Project Manager

Illinois Certification #: 100418
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana/NELAC Certification #: 04076
Ohio VAP: CL0065
West Virginia Certification #: 330

Enclosures

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SAMPLE SUMMARY

Project: Michigan Plaza M01046
Pace Project No.: 5055573

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5055573001	**MMWC02D:175190**	Solid	12/05/11 13:00	12/07/11 13:26
5055573002	**MMWC02D:400420**	Solid	12/06/11 10:00	12/07/11 13:26
5055573003	**MMWP14D:380400**	Solid	12/06/11 14:30	12/07/11 13:26
5055573004	**MMWP14D:190200**	Solid	12/06/11 13:30	12/07/11 13:26
5055573005	**MMWC02D:420**	Water	12/06/11 11:00	12/07/11 13:26
5055573006	**MMWC02D:320**	Water	12/06/11 11:10	12/07/11 13:26
5055573007	**MMWC02D:220**	Water	12/06/11 11:20	12/07/11 13:26
5055573008	**MMWP14D:240**	Water	12/06/11 14:50	12/07/11 13:26
5055573009	**MMWP14D:340**	Water	12/06/11 14:40	12/07/11 13:26
5055573010	**Trip Blank**	Water	12/05/11 08:00	12/07/11 13:26

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SAMPLE ANALYTE COUNT

Project: Michigan Plaza M01046
Pace Project No.: 5055573

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5055573001	**MMWC02D:175190**	EPA 8260	ALA	73
		ASTM D2974-87	MLS	1
5055573002	**MMWC02D:400420**	EPA 8260	ALA	73
		ASTM D2974-87	MLS	1
5055573003	**MMWP14D:380400**	EPA 8260	ALA	73
		ASTM D2974-87	MLS	1
5055573004	**MMWP14D:190200**	EPA 8260	ALA	73
		ASTM D2974-87	MLS	1
5055573005	**MMWC02D:420**	EPA 8260	ALA	73
5055573006	**MMWC02D:320**	EPA 8260	ALA	73
5055573007	**MMWC02D:220**	EPA 8260	ALA	73
5055573008	**MMWP14D:240**	EPA 8260	ALA	73
5055573009	**MMWP14D:340**	EPA 8260	ALA	73
5055573010	**Trip Blank**	EPA 8260	ALA	73

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055573

Sample: MMWC02D:175190 **Lab ID: 5055573001** Collected: 12/05/11 13:00 Received: 12/07/11 13:26 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	**172**	ug/kg	87.0	1		12/12/11 15:10	67-64-1	
Acrolein	ND	ug/kg	87.0	1		12/12/11 15:10	107-02-8	
Acrylonitrile	ND	ug/kg	87.0	1		12/12/11 15:10	107-13-1	
Benzene	ND	ug/kg	4.4	1		12/12/11 15:10	71-43-2	
Bromobenzene	ND	ug/kg	4.4	1		12/12/11 15:10	108-86-1	
Bromochloromethane	ND	ug/kg	4.4	1		12/12/11 15:10	74-97-5	
Bromodichloromethane	ND	ug/kg	4.4	1		12/12/11 15:10	75-27-4	
Bromoform	ND	ug/kg	4.4	1		12/12/11 15:10	75-25-2	
Bromomethane	ND	ug/kg	4.4	1		12/12/11 15:10	74-83-9	
2-Butanone (MEK)	ND	ug/kg	21.8	1		12/12/11 15:10	78-93-3	
n-Butylbenzene	ND	ug/kg	4.4	1		12/12/11 15:10	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.4	1		12/12/11 15:10	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.4	1		12/12/11 15:10	98-06-6	
Carbon disulfide	ND	ug/kg	8.7	1		12/12/11 15:10	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.4	1		12/12/11 15:10	56-23-5	
Chlorobenzene	ND	ug/kg	4.4	1		12/12/11 15:10	108-90-7	
Chloroethane	ND	ug/kg	4.4	1		12/12/11 15:10	75-00-3	
Chloroform	ND	ug/kg	4.4	1		12/12/11 15:10	67-66-3	
Chloromethane	ND	ug/kg	4.4	1		12/12/11 15:10	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.4	1		12/12/11 15:10	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.4	1		12/12/11 15:10	106-43-4	
Dibromochloromethane	ND	ug/kg	4.4	1		12/12/11 15:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.4	1		12/12/11 15:10	106-93-4	
Dibromomethane	ND	ug/kg	4.4	1		12/12/11 15:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.4	1		12/12/11 15:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.4	1		12/12/11 15:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.4	1		12/12/11 15:10	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	87.0	1		12/12/11 15:10	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.4	1		12/12/11 15:10	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.4	1		12/12/11 15:10	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.4	1		12/12/11 15:10	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.4	1		12/12/11 15:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.4	1		12/12/11 15:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.4	1		12/12/11 15:10	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.4	1		12/12/11 15:10	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.4	1		12/12/11 15:10	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.4	1		12/12/11 15:10	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.4	1		12/12/11 15:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.4	1		12/12/11 15:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.4	1		12/12/11 15:10	10061-02-6	
Ethylbenzene	ND	ug/kg	4.4	1		12/12/11 15:10	100-41-4	
Ethyl methacrylate	ND	ug/kg	87.0	1		12/12/11 15:10	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.4	1		12/12/11 15:10	87-68-3	
n-Hexane	ND	ug/kg	4.4	1		12/12/11 15:10	110-54-3	N2
2-Hexanone	ND	ug/kg	87.0	1		12/12/11 15:10	591-78-6	
Iodomethane	ND	ug/kg	87.0	1		12/12/11 15:10	74-88-4	

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

ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055573

Sample: MMWC02D:175190 **Lab ID: 5055573001** Collected: 12/05/11 13:00 Received: 12/07/11 13:26 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	4.4	1		12/12/11 15:10	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.4	1		12/12/11 15:10	99-87-6	
Methylene Chloride	ND	ug/kg	17.4	1		12/12/11 15:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	21.8	1		12/12/11 15:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.4	1		12/12/11 15:10	1634-04-4	
Naphthalene	ND	ug/kg	4.4	1		12/12/11 15:10	91-20-3	
n-Propylbenzene	ND	ug/kg	4.4	1		12/12/11 15:10	103-65-1	
Styrene	ND	ug/kg	4.4	1		12/12/11 15:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.4	1		12/12/11 15:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.4	1		12/12/11 15:10	79-34-5	
Tetrachloroethene	ND	ug/kg	4.4	1		12/12/11 15:10	127-18-4	
Toluene	ND	ug/kg	4.4	1		12/12/11 15:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.4	1		12/12/11 15:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.4	1		12/12/11 15:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.4	1		12/12/11 15:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.4	1		12/12/11 15:10	79-00-5	
Trichloroethene	ND	ug/kg	4.4	1		12/12/11 15:10	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.4	1		12/12/11 15:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.4	1		12/12/11 15:10	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.4	1		12/12/11 15:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.4	1		12/12/11 15:10	108-67-8	
Vinyl acetate	ND	ug/kg	87.0	1		12/12/11 15:10	108-05-4	
Vinyl chloride	ND	ug/kg	4.4	1		12/12/11 15:10	75-01-4	
Xylene (Total)	ND	ug/kg	8.7	1		12/12/11 15:10	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%	71-125	1		12/12/11 15:10	1868-53-7	
Toluene-d8 (S)	102	%	76-124	1		12/12/11 15:10	2037-26-5	
4-Bromofluorobenzene (S)	98	%	67-134	1		12/12/11 15:10	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**8.4**	%	0.10	1		12/08/11 09:34		

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055573

Sample: MMWC02D:400420 **Lab ID: 5055573002** Collected: 12/06/11 10:00 Received: 12/07/11 13:26 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	93.3	1		12/12/11 15:42	67-64-1	
Acrolein	ND	ug/kg	93.3	1		12/12/11 15:42	107-02-8	
Acrylonitrile	ND	ug/kg	93.3	1		12/12/11 15:42	107-13-1	
Benzene	ND	ug/kg	4.7	1		12/12/11 15:42	71-43-2	
Bromobenzene	ND	ug/kg	4.7	1		12/12/11 15:42	108-86-1	
Bromochloromethane	ND	ug/kg	4.7	1		12/12/11 15:42	74-97-5	
Bromodichloromethane	ND	ug/kg	4.7	1		12/12/11 15:42	75-27-4	
Bromoform	ND	ug/kg	4.7	1		12/12/11 15:42	75-25-2	
Bromomethane	ND	ug/kg	4.7	1		12/12/11 15:42	74-83-9	
2-Butanone (MEK)	ND	ug/kg	23.3	1		12/12/11 15:42	78-93-3	
n-Butylbenzene	ND	ug/kg	4.7	1		12/12/11 15:42	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.7	1		12/12/11 15:42	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.7	1		12/12/11 15:42	98-06-6	
Carbon disulfide	ND	ug/kg	9.3	1		12/12/11 15:42	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.7	1		12/12/11 15:42	56-23-5	
Chlorobenzene	ND	ug/kg	4.7	1		12/12/11 15:42	108-90-7	
Chloroethane	ND	ug/kg	4.7	1		12/12/11 15:42	75-00-3	
Chloroform	ND	ug/kg	4.7	1		12/12/11 15:42	67-66-3	
Chloromethane	ND	ug/kg	4.7	1		12/12/11 15:42	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.7	1		12/12/11 15:42	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.7	1		12/12/11 15:42	106-43-4	
Dibromochloromethane	ND	ug/kg	4.7	1		12/12/11 15:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.7	1		12/12/11 15:42	106-93-4	
Dibromomethane	ND	ug/kg	4.7	1		12/12/11 15:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.7	1		12/12/11 15:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.7	1		12/12/11 15:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.7	1		12/12/11 15:42	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	93.3	1		12/12/11 15:42	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.7	1		12/12/11 15:42	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.7	1		12/12/11 15:42	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.7	1		12/12/11 15:42	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.7	1		12/12/11 15:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.7	1		12/12/11 15:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.7	1		12/12/11 15:42	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.7	1		12/12/11 15:42	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.7	1		12/12/11 15:42	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.7	1		12/12/11 15:42	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.7	1		12/12/11 15:42	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.7	1		12/12/11 15:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.7	1		12/12/11 15:42	10061-02-6	
Ethylbenzene	ND	ug/kg	4.7	1		12/12/11 15:42	100-41-4	
Ethyl methacrylate	ND	ug/kg	93.3	1		12/12/11 15:42	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.7	1		12/12/11 15:42	87-68-3	
n-Hexane	ND	ug/kg	4.7	1		12/12/11 15:42	110-54-3	N2
2-Hexanone	ND	ug/kg	93.3	1		12/12/11 15:42	591-78-6	
Iodomethane	ND	ug/kg	93.3	1		12/12/11 15:42	74-88-4	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055573

Sample: MMWC02D:400420 **Lab ID: 5055573002** Collected: 12/06/11 10:00 Received: 12/07/11 13:26 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	4.7	1		12/12/11 15:42	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.7	1		12/12/11 15:42	99-87-6	
Methylene Chloride	ND	ug/kg	18.7	1		12/12/11 15:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	23.3	1		12/12/11 15:42	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.7	1		12/12/11 15:42	1634-04-4	
Naphthalene	ND	ug/kg	4.7	1		12/12/11 15:42	91-20-3	
n-Propylbenzene	ND	ug/kg	4.7	1		12/12/11 15:42	103-65-1	
Styrene	ND	ug/kg	4.7	1		12/12/11 15:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1		12/12/11 15:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.7	1		12/12/11 15:42	79-34-5	
Tetrachloroethene	ND	ug/kg	4.7	1		12/12/11 15:42	127-18-4	
Toluene	ND	ug/kg	4.7	1		12/12/11 15:42	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.7	1		12/12/11 15:42	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.7	1		12/12/11 15:42	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.7	1		12/12/11 15:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.7	1		12/12/11 15:42	79-00-5	
Trichloroethene	ND	ug/kg	4.7	1		12/12/11 15:42	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.7	1		12/12/11 15:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.7	1		12/12/11 15:42	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.7	1		12/12/11 15:42	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.7	1		12/12/11 15:42	108-67-8	
Vinyl acetate	ND	ug/kg	93.3	1		12/12/11 15:42	108-05-4	
Vinyl chloride	ND	ug/kg	4.7	1		12/12/11 15:42	75-01-4	
Xylene (Total)	ND	ug/kg	9.3	1		12/12/11 15:42	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	92	%	71-125	1		12/12/11 15:42	1868-53-7	
Toluene-d8 (S)	102	%	76-124	1		12/12/11 15:42	2037-26-5	
4-Bromofluorobenzene (S)	96	%	67-134	1		12/12/11 15:42	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**9.1**	%	0.10	1		12/08/11 09:34		

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055573

Sample: MMWP14D:380400 **Lab ID: 5055573003** Collected: 12/06/11 14:30 Received: 12/07/11 13:26 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	**106**	ug/kg	77.3	1		12/12/11 16:14	67-64-1	
Acrolein	ND	ug/kg	77.3	1		12/12/11 16:14	107-02-8	
Acrylonitrile	ND	ug/kg	77.3	1		12/12/11 16:14	107-13-1	
Benzene	ND	ug/kg	3.9	1		12/12/11 16:14	71-43-2	
Bromobenzene	ND	ug/kg	3.9	1		12/12/11 16:14	108-86-1	
Bromochloromethane	ND	ug/kg	3.9	1		12/12/11 16:14	74-97-5	
Bromodichloromethane	ND	ug/kg	3.9	1		12/12/11 16:14	75-27-4	
Bromoform	ND	ug/kg	3.9	1		12/12/11 16:14	75-25-2	
Bromomethane	ND	ug/kg	3.9	1		12/12/11 16:14	74-83-9	
2-Butanone (MEK)	ND	ug/kg	19.3	1		12/12/11 16:14	78-93-3	
n-Butylbenzene	ND	ug/kg	3.9	1		12/12/11 16:14	104-51-8	
sec-Butylbenzene	ND	ug/kg	3.9	1		12/12/11 16:14	135-98-8	
tert-Butylbenzene	ND	ug/kg	3.9	1		12/12/11 16:14	98-06-6	
Carbon disulfide	ND	ug/kg	7.7	1		12/12/11 16:14	75-15-0	
Carbon tetrachloride	ND	ug/kg	3.9	1		12/12/11 16:14	56-23-5	
Chlorobenzene	ND	ug/kg	3.9	1		12/12/11 16:14	108-90-7	
Chloroethane	ND	ug/kg	3.9	1		12/12/11 16:14	75-00-3	
Chloroform	ND	ug/kg	3.9	1		12/12/11 16:14	67-66-3	
Chloromethane	ND	ug/kg	3.9	1		12/12/11 16:14	74-87-3	
2-Chlorotoluene	ND	ug/kg	3.9	1		12/12/11 16:14	95-49-8	
4-Chlorotoluene	ND	ug/kg	3.9	1		12/12/11 16:14	106-43-4	
Dibromochloromethane	ND	ug/kg	3.9	1		12/12/11 16:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.9	1		12/12/11 16:14	106-93-4	
Dibromomethane	ND	ug/kg	3.9	1		12/12/11 16:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.9	1		12/12/11 16:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.9	1		12/12/11 16:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.9	1		12/12/11 16:14	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	77.3	1		12/12/11 16:14	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	3.9	1		12/12/11 16:14	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.9	1		12/12/11 16:14	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.9	1		12/12/11 16:14	107-06-2	
1,1-Dichloroethene	ND	ug/kg	3.9	1		12/12/11 16:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	3.9	1		12/12/11 16:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.9	1		12/12/11 16:14	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.9	1		12/12/11 16:14	78-87-5	
1,3-Dichloropropane	ND	ug/kg	3.9	1		12/12/11 16:14	142-28-9	
2,2-Dichloropropane	ND	ug/kg	3.9	1		12/12/11 16:14	594-20-7	
1,1-Dichloropropene	ND	ug/kg	3.9	1		12/12/11 16:14	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	3.9	1		12/12/11 16:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.9	1		12/12/11 16:14	10061-02-6	
Ethylbenzene	ND	ug/kg	3.9	1		12/12/11 16:14	100-41-4	
Ethyl methacrylate	ND	ug/kg	77.3	1		12/12/11 16:14	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	3.9	1		12/12/11 16:14	87-68-3	
n-Hexane	ND	ug/kg	3.9	1		12/12/11 16:14	110-54-3	N2
2-Hexanone	ND	ug/kg	77.3	1		12/12/11 16:14	591-78-6	
Iodomethane	ND	ug/kg	77.3	1		12/12/11 16:14	74-88-4	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055573

Sample: MMWP14D:380400 **Lab ID: 5055573003** Collected: 12/06/11 14:30 Received: 12/07/11 13:26 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	3.9	1		12/12/11 16:14	98-82-8	
p-Isopropyltoluene	ND	ug/kg	3.9	1		12/12/11 16:14	99-87-6	
Methylene Chloride	ND	ug/kg	15.5	1		12/12/11 16:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	19.3	1		12/12/11 16:14	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	3.9	1		12/12/11 16:14	1634-04-4	
Naphthalene	ND	ug/kg	3.9	1		12/12/11 16:14	91-20-3	
n-Propylbenzene	ND	ug/kg	3.9	1		12/12/11 16:14	103-65-1	
Styrene	ND	ug/kg	3.9	1		12/12/11 16:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.9	1		12/12/11 16:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.9	1		12/12/11 16:14	79-34-5	
Tetrachloroethene	ND	ug/kg	3.9	1		12/12/11 16:14	127-18-4	
Toluene	ND	ug/kg	3.9	1		12/12/11 16:14	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	3.9	1		12/12/11 16:14	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	3.9	1		12/12/11 16:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	3.9	1		12/12/11 16:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.9	1		12/12/11 16:14	79-00-5	
Trichloroethene	ND	ug/kg	3.9	1		12/12/11 16:14	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.9	1		12/12/11 16:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	3.9	1		12/12/11 16:14	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	3.9	1		12/12/11 16:14	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	3.9	1		12/12/11 16:14	108-67-8	
Vinyl acetate	ND	ug/kg	77.3	1		12/12/11 16:14	108-05-4	
Vinyl chloride	ND	ug/kg	3.9	1		12/12/11 16:14	75-01-4	
Xylene (Total)	ND	ug/kg	7.7	1		12/12/11 16:14	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	94	%	71-125	1		12/12/11 16:14	1868-53-7	
Toluene-d8 (S)	101	%	76-124	1		12/12/11 16:14	2037-26-5	
4-Bromofluorobenzene (S)	98	%	67-134	1		12/12/11 16:14	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**7.1**	%	0.10	1		12/08/11 09:34		

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055573

Sample: MMWP14D:190200 **Lab ID: 5055573004** Collected: 12/06/11 13:30 Received: 12/07/11 13:26 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	**109**	ug/kg	107	1		12/12/11 17:50	67-64-1	
Acrolein	ND	ug/kg	107	1		12/12/11 17:50	107-02-8	
Acrylonitrile	ND	ug/kg	107	1		12/12/11 17:50	107-13-1	
Benzene	ND	ug/kg	5.4	1		12/12/11 17:50	71-43-2	
Bromobenzene	ND	ug/kg	5.4	1		12/12/11 17:50	108-86-1	
Bromochloromethane	ND	ug/kg	5.4	1		12/12/11 17:50	74-97-5	
Bromodichloromethane	ND	ug/kg	5.4	1		12/12/11 17:50	75-27-4	
Bromoform	ND	ug/kg	5.4	1		12/12/11 17:50	75-25-2	
Bromomethane	ND	ug/kg	5.4	1		12/12/11 17:50	74-83-9	
2-Butanone (MEK)	ND	ug/kg	26.9	1		12/12/11 17:50	78-93-3	
n-Butylbenzene	ND	ug/kg	5.4	1		12/12/11 17:50	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.4	1		12/12/11 17:50	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.4	1		12/12/11 17:50	98-06-6	
Carbon disulfide	ND	ug/kg	10.7	1		12/12/11 17:50	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.4	1		12/12/11 17:50	56-23-5	
Chlorobenzene	ND	ug/kg	5.4	1		12/12/11 17:50	108-90-7	
Chloroethane	ND	ug/kg	5.4	1		12/12/11 17:50	75-00-3	
Chloroform	ND	ug/kg	5.4	1		12/12/11 17:50	67-66-3	
Chloromethane	ND	ug/kg	5.4	1		12/12/11 17:50	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.4	1		12/12/11 17:50	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.4	1		12/12/11 17:50	106-43-4	
Dibromochloromethane	ND	ug/kg	5.4	1		12/12/11 17:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.4	1		12/12/11 17:50	106-93-4	
Dibromomethane	ND	ug/kg	5.4	1		12/12/11 17:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.4	1		12/12/11 17:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.4	1		12/12/11 17:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.4	1		12/12/11 17:50	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	107	1		12/12/11 17:50	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.4	1		12/12/11 17:50	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.4	1		12/12/11 17:50	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.4	1		12/12/11 17:50	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.4	1		12/12/11 17:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.4	1		12/12/11 17:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.4	1		12/12/11 17:50	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.4	1		12/12/11 17:50	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.4	1		12/12/11 17:50	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.4	1		12/12/11 17:50	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.4	1		12/12/11 17:50	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.4	1		12/12/11 17:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.4	1		12/12/11 17:50	10061-02-6	
Ethylbenzene	ND	ug/kg	5.4	1		12/12/11 17:50	100-41-4	
Ethyl methacrylate	ND	ug/kg	107	1		12/12/11 17:50	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.4	1		12/12/11 17:50	87-68-3	
n-Hexane	ND	ug/kg	5.4	1		12/12/11 17:50	110-54-3	N2
2-Hexanone	ND	ug/kg	107	1		12/12/11 17:50	591-78-6	
Iodomethane	ND	ug/kg	107	1		12/12/11 17:50	74-88-4	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055573

Sample: MMWP14D:190200 **Lab ID: 5055573004** Collected: 12/06/11 13:30 Received: 12/07/11 13:26 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	5.4	1		12/12/11 17:50	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.4	1		12/12/11 17:50	99-87-6	
Methylene Chloride	ND	ug/kg	21.5	1		12/12/11 17:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	26.9	1		12/12/11 17:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.4	1		12/12/11 17:50	1634-04-4	
Naphthalene	ND	ug/kg	5.4	1		12/12/11 17:50	91-20-3	
n-Propylbenzene	ND	ug/kg	5.4	1		12/12/11 17:50	103-65-1	
Styrene	ND	ug/kg	5.4	1		12/12/11 17:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.4	1		12/12/11 17:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.4	1		12/12/11 17:50	79-34-5	
Tetrachloroethene	ND	ug/kg	5.4	1		12/12/11 17:50	127-18-4	
Toluene	ND	ug/kg	5.4	1		12/12/11 17:50	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.4	1		12/12/11 17:50	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.4	1		12/12/11 17:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.4	1		12/12/11 17:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.4	1		12/12/11 17:50	79-00-5	
Trichloroethene	ND	ug/kg	5.4	1		12/12/11 17:50	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.4	1		12/12/11 17:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.4	1		12/12/11 17:50	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.4	1		12/12/11 17:50	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.4	1		12/12/11 17:50	108-67-8	
Vinyl acetate	ND	ug/kg	107	1		12/12/11 17:50	108-05-4	
Vinyl chloride	ND	ug/kg	5.4	1		12/12/11 17:50	75-01-4	
Xylene (Total)	ND	ug/kg	10.7	1		12/12/11 17:50	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%	71-125	1		12/12/11 17:50	1868-53-7	
Toluene-d8 (S)	101	%	76-124	1		12/12/11 17:50	2037-26-5	
4-Bromofluorobenzene (S)	98	%	67-134	1		12/12/11 17:50	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**10.7**	%	0.10	1		12/08/11 09:34		

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055573

Sample: MMWC02D:420 **Lab ID: 5055573005** Collected: 12/06/11 11:00 Received: 12/07/11 13:26 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		12/12/11 18:22	67-64-1	
Acrolein	ND	ug/L	50.0	1		12/12/11 18:22	107-02-8	
Acrylonitrile	ND	ug/L	100	1		12/12/11 18:22	107-13-1	
Benzene	ND	ug/L	5.0	1		12/12/11 18:22	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		12/12/11 18:22	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		12/12/11 18:22	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		12/12/11 18:22	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/12/11 18:22	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/12/11 18:22	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		12/12/11 18:22	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		12/12/11 18:22	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		12/12/11 18:22	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		12/12/11 18:22	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		12/12/11 18:22	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/12/11 18:22	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/12/11 18:22	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/12/11 18:22	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/12/11 18:22	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/12/11 18:22	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		12/12/11 18:22	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		12/12/11 18:22	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		12/12/11 18:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/12/11 18:22	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		12/12/11 18:22	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/12/11 18:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/12/11 18:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/12/11 18:22	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		12/12/11 18:22	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		12/12/11 18:22	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/12/11 18:22	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/12/11 18:22	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/12/11 18:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		12/12/11 18:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/12/11 18:22	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/12/11 18:22	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		12/12/11 18:22	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		12/12/11 18:22	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		12/12/11 18:22	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/12/11 18:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/12/11 18:22	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/12/11 18:22	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		12/12/11 18:22	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/12/11 18:22	87-68-3	
n-Hexane	ND	ug/L	5.0	1		12/12/11 18:22	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		12/12/11 18:22	591-78-6	
Iodomethane	ND	ug/L	10.0	1		12/12/11 18:22	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		12/12/11 18:22	98-82-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055573

Sample: MMWC02D:420 **Lab ID: 5055573005** Collected: 12/06/11 11:00 Received: 12/07/11 13:26 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		12/12/11 18:22	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		12/12/11 18:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		12/12/11 18:22	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		12/12/11 18:22	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/12/11 18:22	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		12/12/11 18:22	103-65-1	
Styrene	ND	ug/L	5.0	1		12/12/11 18:22	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		12/12/11 18:22	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/12/11 18:22	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/12/11 18:22	127-18-4	
Toluene	ND	ug/L	5.0	1		12/12/11 18:22	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		12/12/11 18:22	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		12/12/11 18:22	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/12/11 18:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/12/11 18:22	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/12/11 18:22	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/12/11 18:22	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		12/12/11 18:22	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		12/12/11 18:22	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		12/12/11 18:22	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		12/12/11 18:22	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		12/12/11 18:22	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/12/11 18:22	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	95	%	83-123	1		12/12/11 18:22	1868-53-7	
4-Bromofluorobenzene (S)	101	%	72-125	1		12/12/11 18:22	460-00-4	
Toluene-d8 (S)	101	%	81-114	1		12/12/11 18:22	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055573

Sample: MMWC02D:320 **Lab ID: 5055573006** Collected: 12/06/11 11:10 Received: 12/07/11 13:26 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		12/12/11 18:54	67-64-1	
Acrolein	ND	ug/L	50.0	1		12/12/11 18:54	107-02-8	
Acrylonitrile	ND	ug/L	100	1		12/12/11 18:54	107-13-1	
Benzene	ND	ug/L	5.0	1		12/12/11 18:54	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		12/12/11 18:54	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		12/12/11 18:54	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		12/12/11 18:54	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/12/11 18:54	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/12/11 18:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		12/12/11 18:54	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		12/12/11 18:54	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		12/12/11 18:54	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		12/12/11 18:54	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		12/12/11 18:54	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/12/11 18:54	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/12/11 18:54	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/12/11 18:54	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/12/11 18:54	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/12/11 18:54	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		12/12/11 18:54	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		12/12/11 18:54	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		12/12/11 18:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/12/11 18:54	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		12/12/11 18:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/12/11 18:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/12/11 18:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/12/11 18:54	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		12/12/11 18:54	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		12/12/11 18:54	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/12/11 18:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/12/11 18:54	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/12/11 18:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		12/12/11 18:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/12/11 18:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/12/11 18:54	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		12/12/11 18:54	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		12/12/11 18:54	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		12/12/11 18:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/12/11 18:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/12/11 18:54	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/12/11 18:54	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		12/12/11 18:54	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/12/11 18:54	87-68-3	
n-Hexane	ND	ug/L	5.0	1		12/12/11 18:54	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		12/12/11 18:54	591-78-6	
Iodomethane	ND	ug/L	10.0	1		12/12/11 18:54	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		12/12/11 18:54	98-82-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055573

Sample: MMWC02D:320 **Lab ID: 5055573006** Collected: 12/06/11 11:10 Received: 12/07/11 13:26 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		12/12/11 18:54	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		12/12/11 18:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		12/12/11 18:54	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		12/12/11 18:54	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/12/11 18:54	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		12/12/11 18:54	103-65-1	
Styrene	ND	ug/L	5.0	1		12/12/11 18:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		12/12/11 18:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/12/11 18:54	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/12/11 18:54	127-18-4	
Toluene	ND	ug/L	5.0	1		12/12/11 18:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		12/12/11 18:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		12/12/11 18:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/12/11 18:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/12/11 18:54	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/12/11 18:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/12/11 18:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		12/12/11 18:54	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		12/12/11 18:54	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		12/12/11 18:54	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		12/12/11 18:54	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		12/12/11 18:54	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/12/11 18:54	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	94	%	83-123	1		12/12/11 18:54	1868-53-7	
4-Bromofluorobenzene (S)	100	%	72-125	1		12/12/11 18:54	460-00-4	
Toluene-d8 (S)	99	%	81-114	1		12/12/11 18:54	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055573

Sample: MMWC02D:220 **Lab ID: 5055573007** Collected: 12/06/11 11:20 Received: 12/07/11 13:26 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		12/12/11 19:26	67-64-1	
Acrolein	ND	ug/L	50.0	1		12/12/11 19:26	107-02-8	
Acrylonitrile	ND	ug/L	100	1		12/12/11 19:26	107-13-1	
Benzene	ND	ug/L	5.0	1		12/12/11 19:26	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		12/12/11 19:26	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		12/12/11 19:26	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		12/12/11 19:26	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/12/11 19:26	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/12/11 19:26	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		12/12/11 19:26	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		12/12/11 19:26	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		12/12/11 19:26	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		12/12/11 19:26	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		12/12/11 19:26	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/12/11 19:26	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/12/11 19:26	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/12/11 19:26	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/12/11 19:26	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/12/11 19:26	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		12/12/11 19:26	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		12/12/11 19:26	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		12/12/11 19:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/12/11 19:26	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		12/12/11 19:26	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/12/11 19:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/12/11 19:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/12/11 19:26	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		12/12/11 19:26	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		12/12/11 19:26	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/12/11 19:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/12/11 19:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/12/11 19:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		12/12/11 19:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/12/11 19:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/12/11 19:26	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		12/12/11 19:26	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		12/12/11 19:26	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		12/12/11 19:26	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/12/11 19:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/12/11 19:26	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/12/11 19:26	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		12/12/11 19:26	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/12/11 19:26	87-68-3	
n-Hexane	ND	ug/L	5.0	1		12/12/11 19:26	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		12/12/11 19:26	591-78-6	
Iodomethane	ND	ug/L	10.0	1		12/12/11 19:26	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		12/12/11 19:26	98-82-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055573

Sample: MMWC02D:220 **Lab ID: 5055573007** Collected: 12/06/11 11:20 Received: 12/07/11 13:26 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		12/12/11 19:26	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		12/12/11 19:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		12/12/11 19:26	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		12/12/11 19:26	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/12/11 19:26	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		12/12/11 19:26	103-65-1	
Styrene	ND	ug/L	5.0	1		12/12/11 19:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		12/12/11 19:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/12/11 19:26	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/12/11 19:26	127-18-4	
Toluene	ND	ug/L	5.0	1		12/12/11 19:26	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		12/12/11 19:26	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		12/12/11 19:26	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/12/11 19:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/12/11 19:26	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/12/11 19:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/12/11 19:26	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		12/12/11 19:26	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		12/12/11 19:26	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		12/12/11 19:26	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		12/12/11 19:26	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		12/12/11 19:26	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/12/11 19:26	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	94	%	83-123	1		12/12/11 19:26	1868-53-7	
4-Bromofluorobenzene (S)	100	%	72-125	1		12/12/11 19:26	460-00-4	
Toluene-d8 (S)	101	%	81-114	1		12/12/11 19:26	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055573

Sample: MMWP14D:240 **Lab ID: 5055573008** Collected: 12/06/11 14:50 Received: 12/07/11 13:26 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		12/12/11 19:58	67-64-1	
Acrolein	ND	ug/L	50.0	1		12/12/11 19:58	107-02-8	
Acrylonitrile	ND	ug/L	100	1		12/12/11 19:58	107-13-1	
Benzene	ND	ug/L	5.0	1		12/12/11 19:58	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		12/12/11 19:58	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		12/12/11 19:58	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		12/12/11 19:58	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/12/11 19:58	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/12/11 19:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		12/12/11 19:58	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		12/12/11 19:58	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		12/12/11 19:58	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		12/12/11 19:58	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		12/12/11 19:58	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/12/11 19:58	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/12/11 19:58	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/12/11 19:58	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/12/11 19:58	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/12/11 19:58	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		12/12/11 19:58	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		12/12/11 19:58	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		12/12/11 19:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/12/11 19:58	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		12/12/11 19:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/12/11 19:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/12/11 19:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/12/11 19:58	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		12/12/11 19:58	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		12/12/11 19:58	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/12/11 19:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/12/11 19:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/12/11 19:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		12/12/11 19:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/12/11 19:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/12/11 19:58	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		12/12/11 19:58	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		12/12/11 19:58	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		12/12/11 19:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/12/11 19:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/12/11 19:58	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/12/11 19:58	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		12/12/11 19:58	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/12/11 19:58	87-68-3	
n-Hexane	ND	ug/L	5.0	1		12/12/11 19:58	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		12/12/11 19:58	591-78-6	
Iodomethane	ND	ug/L	10.0	1		12/12/11 19:58	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		12/12/11 19:58	98-82-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055573

Sample: MMWP14D:240 **Lab ID: 5055573008** Collected: 12/06/11 14:50 Received: 12/07/11 13:26 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		12/12/11 19:58	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		12/12/11 19:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		12/12/11 19:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		12/12/11 19:58	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/12/11 19:58	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		12/12/11 19:58	103-65-1	
Styrene	ND	ug/L	5.0	1		12/12/11 19:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		12/12/11 19:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/12/11 19:58	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/12/11 19:58	127-18-4	
Toluene	ND	ug/L	5.0	1		12/12/11 19:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		12/12/11 19:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		12/12/11 19:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/12/11 19:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/12/11 19:58	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/12/11 19:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/12/11 19:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		12/12/11 19:58	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		12/12/11 19:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		12/12/11 19:58	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		12/12/11 19:58	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		12/12/11 19:58	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/12/11 19:58	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%	83-123	1		12/12/11 19:58	1868-53-7	
4-Bromofluorobenzene (S)	99	%	72-125	1		12/12/11 19:58	460-00-4	
Toluene-d8 (S)	100	%	81-114	1		12/12/11 19:58	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055573

Sample: MMWP14D:340 **Lab ID: 5055573009** Collected: 12/06/11 14:40 Received: 12/07/11 13:26 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		12/12/11 20:30	67-64-1	
Acrolein	ND	ug/L	50.0	1		12/12/11 20:30	107-02-8	
Acrylonitrile	ND	ug/L	100	1		12/12/11 20:30	107-13-1	
Benzene	ND	ug/L	5.0	1		12/12/11 20:30	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		12/12/11 20:30	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		12/12/11 20:30	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		12/12/11 20:30	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/12/11 20:30	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/12/11 20:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		12/12/11 20:30	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		12/12/11 20:30	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		12/12/11 20:30	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		12/12/11 20:30	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		12/12/11 20:30	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/12/11 20:30	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/12/11 20:30	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/12/11 20:30	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/12/11 20:30	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/12/11 20:30	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		12/12/11 20:30	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		12/12/11 20:30	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		12/12/11 20:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/12/11 20:30	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		12/12/11 20:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/12/11 20:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/12/11 20:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/12/11 20:30	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		12/12/11 20:30	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		12/12/11 20:30	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/12/11 20:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/12/11 20:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/12/11 20:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		12/12/11 20:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/12/11 20:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/12/11 20:30	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		12/12/11 20:30	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		12/12/11 20:30	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		12/12/11 20:30	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/12/11 20:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/12/11 20:30	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/12/11 20:30	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		12/12/11 20:30	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/12/11 20:30	87-68-3	
n-Hexane	ND	ug/L	5.0	1		12/12/11 20:30	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		12/12/11 20:30	591-78-6	
Iodomethane	ND	ug/L	10.0	1		12/12/11 20:30	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		12/12/11 20:30	98-82-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055573

Sample: MMWP14D:340 **Lab ID: 5055573009** Collected: 12/06/11 14:40 Received: 12/07/11 13:26 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		12/12/11 20:30	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		12/12/11 20:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		12/12/11 20:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		12/12/11 20:30	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/12/11 20:30	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		12/12/11 20:30	103-65-1	
Styrene	ND	ug/L	5.0	1		12/12/11 20:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		12/12/11 20:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/12/11 20:30	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/12/11 20:30	127-18-4	
Toluene	ND	ug/L	5.0	1		12/12/11 20:30	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		12/12/11 20:30	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		12/12/11 20:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/12/11 20:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/12/11 20:30	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/12/11 20:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/12/11 20:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		12/12/11 20:30	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		12/12/11 20:30	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		12/12/11 20:30	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		12/12/11 20:30	108-05-4	
Vinyl chloride	**5.1**	ug/L	2.0	1		12/12/11 20:30	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/12/11 20:30	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	93	%	83-123	1		12/12/11 20:30	1868-53-7	
4-Bromofluorobenzene (S)	100	%	72-125	1		12/12/11 20:30	460-00-4	
Toluene-d8 (S)	100	%	81-114	1		12/12/11 20:30	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055573

Sample: Trip Blank **Lab ID: 5055573010** Collected: 12/05/11 08:00 Received: 12/07/11 13:26 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		12/12/11 22:05	67-64-1	
Acrolein	ND	ug/L	50.0	1		12/12/11 22:05	107-02-8	
Acrylonitrile	ND	ug/L	100	1		12/12/11 22:05	107-13-1	
Benzene	ND	ug/L	5.0	1		12/12/11 22:05	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		12/12/11 22:05	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		12/12/11 22:05	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		12/12/11 22:05	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/12/11 22:05	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/12/11 22:05	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		12/12/11 22:05	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		12/12/11 22:05	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		12/12/11 22:05	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		12/12/11 22:05	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		12/12/11 22:05	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/12/11 22:05	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/12/11 22:05	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/12/11 22:05	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/12/11 22:05	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/12/11 22:05	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		12/12/11 22:05	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		12/12/11 22:05	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		12/12/11 22:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/12/11 22:05	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		12/12/11 22:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/12/11 22:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/12/11 22:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/12/11 22:05	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		12/12/11 22:05	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		12/12/11 22:05	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/12/11 22:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/12/11 22:05	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/12/11 22:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		12/12/11 22:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/12/11 22:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/12/11 22:05	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		12/12/11 22:05	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		12/12/11 22:05	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		12/12/11 22:05	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/12/11 22:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/12/11 22:05	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/12/11 22:05	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		12/12/11 22:05	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/12/11 22:05	87-68-3	
n-Hexane	ND	ug/L	5.0	1		12/12/11 22:05	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		12/12/11 22:05	591-78-6	
Iodomethane	ND	ug/L	10.0	1		12/12/11 22:05	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		12/12/11 22:05	98-82-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055573

Sample: Trip Blank **Lab ID: 5055573010** Collected: 12/05/11 08:00 Received: 12/07/11 13:26 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		12/12/11 22:05	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		12/12/11 22:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		12/12/11 22:05	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		12/12/11 22:05	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/12/11 22:05	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		12/12/11 22:05	103-65-1	
Styrene	ND	ug/L	5.0	1		12/12/11 22:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		12/12/11 22:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/12/11 22:05	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/12/11 22:05	127-18-4	
Toluene	ND	ug/L	5.0	1		12/12/11 22:05	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		12/12/11 22:05	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		12/12/11 22:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/12/11 22:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/12/11 22:05	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/12/11 22:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/12/11 22:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		12/12/11 22:05	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		12/12/11 22:05	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		12/12/11 22:05	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		12/12/11 22:05	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		12/12/11 22:05	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/12/11 22:05	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%	83-123	1		12/12/11 22:05	1868-53-7	
4-Bromofluorobenzene (S)	101	%	72-125	1		12/12/11 22:05	460-00-4	
Toluene-d8 (S)	101	%	81-114	1		12/12/11 22:05	2037-26-5	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055573

QC Batch: MSV/38007 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5055573005, 5055573006, 5055573007, 5055573008, 5055573009, 5055573010

METHOD BLANK: 659567 Matrix: Water
Associated Lab Samples: 5055573005, 5055573006, 5055573007, 5055573008, 5055573009, 5055573010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	12/12/11 13:02	
1,1,1-Trichloroethane	ug/L	ND	5.0	12/12/11 13:02	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	12/12/11 13:02	
1,1,2-Trichloroethane	ug/L	ND	5.0	12/12/11 13:02	
1,1-Dichloroethane	ug/L	ND	5.0	12/12/11 13:02	
1,1-Dichloroethene	ug/L	ND	5.0	12/12/11 13:02	
1,1-Dichloropropene	ug/L	ND	5.0	12/12/11 13:02	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	12/12/11 13:02	
1,2,3-Trichloropropane	ug/L	ND	5.0	12/12/11 13:02	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	12/12/11 13:02	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	12/12/11 13:02	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	12/12/11 13:02	
1,2-Dichlorobenzene	ug/L	ND	5.0	12/12/11 13:02	
1,2-Dichloroethane	ug/L	ND	5.0	12/12/11 13:02	
1,2-Dichloropropane	ug/L	ND	5.0	12/12/11 13:02	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	12/12/11 13:02	
1,3-Dichlorobenzene	ug/L	ND	5.0	12/12/11 13:02	
1,3-Dichloropropane	ug/L	ND	5.0	12/12/11 13:02	
1,4-Dichlorobenzene	ug/L	ND	5.0	12/12/11 13:02	
2,2-Dichloropropane	ug/L	ND	5.0	12/12/11 13:02	
2-Butanone (MEK)	ug/L	ND	25.0	12/12/11 13:02	
2-Chlorotoluene	ug/L	ND	5.0	12/12/11 13:02	
2-Hexanone	ug/L	ND	25.0	12/12/11 13:02	
4-Chlorotoluene	ug/L	ND	5.0	12/12/11 13:02	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	12/12/11 13:02	
Acetone	ug/L	ND	100	12/12/11 13:02	
Acrolein	ug/L	ND	50.0	12/12/11 13:02	
Acrylonitrile	ug/L	ND	100	12/12/11 13:02	
Benzene	ug/L	ND	5.0	12/12/11 13:02	
Bromobenzene	ug/L	ND	5.0	12/12/11 13:02	
Bromochloromethane	ug/L	ND	5.0	12/12/11 13:02	
Bromodichloromethane	ug/L	ND	5.0	12/12/11 13:02	
Bromoform	ug/L	ND	5.0	12/12/11 13:02	
Bromomethane	ug/L	ND	5.0	12/12/11 13:02	
Carbon disulfide	ug/L	ND	10.0	12/12/11 13:02	
Carbon tetrachloride	ug/L	ND	5.0	12/12/11 13:02	
Chlorobenzene	ug/L	ND	5.0	12/12/11 13:02	
Chloroethane	ug/L	ND	5.0	12/12/11 13:02	
Chloroform	ug/L	ND	5.0	12/12/11 13:02	
Chloromethane	ug/L	ND	5.0	12/12/11 13:02	
cis-1,2-Dichloroethene	ug/L	ND	5.0	12/12/11 13:02	
cis-1,3-Dichloropropene	ug/L	ND	5.0	12/12/11 13:02	
Dibromochloromethane	ug/L	ND	5.0	12/12/11 13:02	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055573

METHOD BLANK: 659567 Matrix: Water

Associated Lab Samples: 5055573005, 5055573006, 5055573007, 5055573008, 5055573009, 5055573010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	5.0	12/12/11 13:02	
Dichlorodifluoromethane	ug/L	ND	5.0	12/12/11 13:02	
Ethyl methacrylate	ug/L	ND	100	12/12/11 13:02	
Ethylbenzene	ug/L	ND	5.0	12/12/11 13:02	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	12/12/11 13:02	
Iodomethane	ug/L	ND	10.0	12/12/11 13:02	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	12/12/11 13:02	
Methyl-tert-butyl ether	ug/L	ND	4.0	12/12/11 13:02	
Methylene Chloride	ug/L	ND	5.0	12/12/11 13:02	
n-Butylbenzene	ug/L	ND	5.0	12/12/11 13:02	
n-Hexane	ug/L	ND	5.0	12/12/11 13:02	N2
n-Propylbenzene	ug/L	ND	5.0	12/12/11 13:02	
Naphthalene	ug/L	ND	5.0	12/12/11 13:02	
p-Isopropyltoluene	ug/L	ND	5.0	12/12/11 13:02	
sec-Butylbenzene	ug/L	ND	5.0	12/12/11 13:02	
Styrene	ug/L	ND	5.0	12/12/11 13:02	
tert-Butylbenzene	ug/L	ND	5.0	12/12/11 13:02	
Tetrachloroethene	ug/L	ND	5.0	12/12/11 13:02	
Toluene	ug/L	ND	5.0	12/12/11 13:02	
trans-1,2-Dichloroethene	ug/L	ND	5.0	12/12/11 13:02	
trans-1,3-Dichloropropene	ug/L	ND	5.0	12/12/11 13:02	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	12/12/11 13:02	
Trichloroethene	ug/L	ND	5.0	12/12/11 13:02	
Trichlorofluoromethane	ug/L	ND	5.0	12/12/11 13:02	
Vinyl acetate	ug/L	ND	50.0	12/12/11 13:02	
Vinyl chloride	ug/L	ND	2.0	12/12/11 13:02	
Xylene (Total)	ug/L	ND	10.0	12/12/11 13:02	
4-Bromofluorobenzene (S)	%	101	72-125	12/12/11 13:02	
Dibromofluoromethane (S)	%	91	83-123	12/12/11 13:02	
Toluene-d8 (S)	%	100	81-114	12/12/11 13:02	

LABORATORY CONTROL SAMPLE: 659568

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	42.7	85	69-122	
1,1,1-Trichloroethane	ug/L	50	43.3	87	69-126	
1,1,2,2-Tetrachloroethane	ug/L	50	45.7	91	68-134	
1,1,2-Trichloroethane	ug/L	50	45.4	91	77-129	
1,1-Dichloroethane	ug/L	50	42.8	86	70-127	
1,1-Dichloroethene	ug/L	50	42.9	86	75-145	
1,1-Dichloropropene	ug/L	50	42.5	85	75-126	
1,2,3-Trichlorobenzene	ug/L	50	42.3	85	63-130	
1,2,3-Trichloropropane	ug/L	50	71.6	143	45-121	L3
1,2,4-Trichlorobenzene	ug/L	50	43.3	87	64-122	
1,2,4-Trimethylbenzene	ug/L	50	41.7	83	68-129	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055573

LABORATORY CONTROL SAMPLE: 659568

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	50	43.1	86	77-123	
1,2-Dichlorobenzene	ug/L	50	41.7	83	74-123	
1,2-Dichloroethane	ug/L	50	42.8	86	71-127	
1,2-Dichloropropane	ug/L	50	41.2	82	75-126	
1,3,5-Trimethylbenzene	ug/L	50	41.4	83	69-129	
1,3-Dichlorobenzene	ug/L	50	41.6	83	76-123	
1,3-Dichloropropane	ug/L	50	41.8	84	77-126	
1,4-Dichlorobenzene	ug/L	50	46.0	92	77-121	
2,2-Dichloropropane	ug/L	50	42.4	85	45-138	
2-Butanone (MEK)	ug/L	250	279	112	42-177	
2-Chlorotoluene	ug/L	50	47.2	94	74-129	
2-Hexanone	ug/L	250	249	99	57-162	
4-Chlorotoluene	ug/L	50	43.7	87	70-125	
4-Methyl-2-pentanone (MIBK)	ug/L	250	211	84	64-135	
Acetone	ug/L	250	428	171	10-200	
Acrolein	ug/L	1000	1480	148	10-200	
Acrylonitrile	ug/L	1000	866	87	59-144	
Benzene	ug/L	50	38.7	77	76-123	
Bromobenzene	ug/L	50	42.3	85	67-130	
Bromochloromethane	ug/L	50	43.9	88	58-153	
Bromodichloromethane	ug/L	50	40.6	81	71-124	
Bromoform	ug/L	50	36.8	74	64-116	
Bromomethane	ug/L	50	68.0	136	23-197	
Carbon disulfide	ug/L	100	89.8	90	55-146	
Carbon tetrachloride	ug/L	50	38.8	78	65-125	
Chlorobenzene	ug/L	50	41.1	82	78-120	
Chloroethane	ug/L	50	61.0	122	56-163	
Chloroform	ug/L	50	43.0	86	73-122	
Chloromethane	ug/L	50	59.0	118	46-146	
cis-1,2-Dichloroethene	ug/L	50	40.4	81	79-129	
cis-1,3-Dichloropropene	ug/L	50	41.4	83	66-123	
Dibromochloromethane	ug/L	50	42.8	86	70-123	
Dibromomethane	ug/L	50	45.5	91	73-123	
Dichlorodifluoromethane	ug/L	50	57.1	114	19-200	
Ethyl methacrylate	ug/L	200	174	87	70-127	
Ethylbenzene	ug/L	50	41.2	82	75-120	
Hexachloro-1,3-butadiene	ug/L	50	41.9	84	64-131	
Iodomethane	ug/L	100	94.8	95	16-181	
Isopropylbenzene (Cumene)	ug/L	50	43.0	86	73-123	
Methyl-tert-butyl ether	ug/L	100	86.9	87	66-128	
Methylene Chloride	ug/L	50	43.6	87	61-138	
n-Butylbenzene	ug/L	50	43.5	87	69-130	
n-Hexane	ug/L	50	38.2	76	67-142	N2
n-Propylbenzene	ug/L	50	47.3	95	71-132	
Naphthalene	ug/L	50	42.9	86	62-130	
p-Isopropyltoluene	ug/L	50	42.8	86	71-126	
sec-Butylbenzene	ug/L	50	42.0	84	69-130	
Styrene	ug/L	50	41.7	83	75-125	

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(317)875-5894

QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055573

LABORATORY CONTROL SAMPLE: 659568

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	33.5	67	49-114	
Tetrachloroethene	ug/L	50	42.8	86	57-125	
Toluene	ug/L	50	40.2	80	72-124	
trans-1,2-Dichloroethene	ug/L	50	41.3	83	71-145	
trans-1,3-Dichloropropene	ug/L	50	41.4	83	58-118	
trans-1,4-Dichloro-2-butene	ug/L	200	157	79	50-121	
Trichloroethene	ug/L	50	40.1	80	77-122	
Trichlorofluoromethane	ug/L	50	61.9	124	56-159	
Vinyl acetate	ug/L	200	155	77	27-119	
Vinyl chloride	ug/L	50	55.8	112	61-146	
Xylene (Total)	ug/L	150	133	89	72-126	
4-Bromofluorobenzene (S)	%			100	72-125	
Dibromofluoromethane (S)	%			104	83-123	
Toluene-d8 (S)	%			100	81-114	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 659569 659570

Parameter	Units	5055573009 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/L	ND	50	50	40.6	42.6	81	85	30-122	5	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	42.1	43.1	84	86	37-136	2	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	43.1	44.3	86	89	47-132	3	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	44.2	44.8	88	90	53-131	1	20	
1,1-Dichloroethane	ug/L	ND	50	50	44.0	43.9	88	88	47-138	.2	20	
1,1-Dichloroethene	ug/L	ND	50	50	44.9	44.7	90	89	54-152	.5	20	
1,1-Dichloropropene	ug/L	ND	50	50	43.2	42.7	86	85	47-136	1	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	37.6	38.8	75	78	15-132	3	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	42.4	42.1	85	84	24-108	.8	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	36.9	37.9	74	76	10-130	3	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	41.7	42.4	83	85	10-141	2	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	41.6	42.2	83	84	49-130	1	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	41.0	41.7	82	83	20-137	2	20	
1,2-Dichloroethane	ug/L	ND	50	50	42.5	42.6	85	85	42-139	.2	20	
1,2-Dichloropropane	ug/L	ND	50	50	42.6	42.6	85	85	50-131	.1	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	41.5	42.0	83	84	10-145	1	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	39.6	40.2	79	80	13-143	2	20	
1,3-Dichloropropane	ug/L	ND	50	50	41.2	41.9	82	84	53-130	2	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	44.5	45.3	89	91	13-140	2	20	
2,2-Dichloropropane	ug/L	ND	50	50	39.7	40.5	79	81	13-142	2	20	
2-Butanone (MEK)	ug/L	ND	250	250	198	199	79	80	43-142	.6	20	
2-Chlorotoluene	ug/L	ND	50	50	47.2	48.3	94	97	15-145	2	20	
2-Hexanone	ug/L	ND	250	250	191	192	76	77	46-139	.5	20	
4-Chlorotoluene	ug/L	ND	50	50	42.2	43.0	84	86	12-143	2	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	190	193	76	77	43-140	2	20	
Acetone	ug/L	ND	250	250	235	238	94	95	38-155	1	20	
Acrolein	ug/L	ND	1000	1000	1320	1330	132	133	11-200	.9	20	
Acrylonitrile	ug/L	ND	1000	1000	812	812	81	81	42-150	.009	20	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055573

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 659569 659570

Parameter	Units	5055573009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	50	50	40.6	40.3	81	81	52-134	.6	20	
Bromobenzene	ug/L	ND	50	50	41.7	42.0	83	84	25-140	.7	20	
Bromochloromethane	ug/L	ND	50	50	43.6	43.6	87	87	54-144	.1	20	
Bromodichloromethane	ug/L	ND	50	50	38.7	40.0	77	80	42-128	3	20	
Bromoform	ug/L	ND	50	50	29.2	31.0	58	62	34-116	6	20	
Bromomethane	ug/L	ND	50	50	78.2	74.5	156	149	10-200	5	20	
Carbon disulfide	ug/L	ND	100	100	91.1	91.3	91	91	43-144	.3	20	
Carbon tetrachloride	ug/L	ND	50	50	35.6	37.1	71	74	26-136	4	20	
Chlorobenzene	ug/L	ND	50	50	41.4	41.4	83	83	33-136	.2	20	
Chloroethane	ug/L	ND	50	50	62.7	62.2	125	124	21-200	.7	20	
Chloroform	ug/L	ND	50	50	44.7	44.6	89	89	50-134	.1	20	
Chloromethane	ug/L	ND	50	50	62.1	58.8	124	118	32-160	5	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	41.7	41.8	83	84	48-145	.3	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	35.2	35.7	70	71	35-116	1	20	
Dibromochloromethane	ug/L	ND	50	50	36.6	38.3	73	77	39-122	5	20	
Dibromomethane	ug/L	ND	50	50	44.5	45.0	89	90	49-134	1	20	
Dichlorodifluoromethane	ug/L	ND	50	50	55.1	55.4	110	111	35-200	.4	20	
Ethyl methacrylate	ug/L	ND	200	200	166	170	83	85	54-123	2	20	
Ethylbenzene	ug/L	ND	50	50	42.4	42.0	85	84	29-132	1	20	
Hexachloro-1,3-butadiene	ug/L	ND	50	50	38.0	40.0	76	80	10-146	5	20	
Iodomethane	ug/L	ND	100	100	78.7	94.9	79	95	10-171	19	20	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	43.9	44.2	88	88	11-146	.8	20	
Methyl-tert-butyl ether	ug/L	ND	100	100	85.4	85.8	85	86	39-137	.5	20	
Methylene Chloride	ug/L	ND	50	50	40.7	40.0	81	80	47-141	2	20	
n-Butylbenzene	ug/L	ND	50	50	40.6	41.4	81	83	10-156	2	20	
n-Hexane	ug/L	ND	50	50	38.5	38.9	77	78	51-137	1	20	N2
n-Propylbenzene	ug/L	ND	50	50	46.7	48.0	93	96	10-148	3	20	
Naphthalene	ug/L	ND	50	50	38.3	39.2	77	78	40-124	2	20	
p-Isopropyltoluene	ug/L	ND	50	50	41.9	42.8	84	86	10-150	2	20	
sec-Butylbenzene	ug/L	ND	50	50	41.5	42.9	83	86	10-150	3	20	
Styrene	ug/L	ND	50	50	42.3	42.6	85	85	20-143	.8	20	
tert-Butylbenzene	ug/L	ND	50	50	34.2	35.1	68	70	10-123	3	20	
Tetrachloroethene	ug/L	ND	50	50	40.7	41.0	81	82	30-124	.6	20	
Toluene	ug/L	ND	50	50	41.6	41.3	82	81	42-130	.7	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	41.6	41.7	83	83	48-144	.4	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	35.2	35.7	70	71	24-114	1	20	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	50.3J	43.2J	25	22	22-120		20	
Trichloroethene	ug/L	ND	50	50	41.1	41.4	82	83	44-130	.6	20	
Trichlorofluoromethane	ug/L	ND	50	50	60.9	60.7	122	121	17-200	.4	20	
Vinyl acetate	ug/L	ND	200	200	140	144	70	72	10-115	3	20	
Vinyl chloride	ug/L	5.1	50	50	59.0	58.1	108	106	45-159	1	20	
Xylene (Total)	ug/L	ND	150	150	134	134	89	89	29-131	.2	20	
4-Bromofluorobenzene (S)	%						101	100	72-125		20	
Dibromofluoromethane (S)	%						100	100	83-123		20	
Toluene-d8 (S)	%						100	100	81-114		20	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055573

QC Batch: MSV/38008 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 5055573001, 5055573002, 5055573003, 5055573004

METHOD BLANK: 659571 Matrix: Solid
Associated Lab Samples: 5055573001, 5055573002, 5055573003, 5055573004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	12/12/11 13:34	
1,1,1-Trichloroethane	ug/kg	ND	5.0	12/12/11 13:34	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	12/12/11 13:34	
1,1,2-Trichloroethane	ug/kg	ND	5.0	12/12/11 13:34	
1,1-Dichloroethane	ug/kg	ND	5.0	12/12/11 13:34	
1,1-Dichloroethene	ug/kg	ND	5.0	12/12/11 13:34	
1,1-Dichloropropene	ug/kg	ND	5.0	12/12/11 13:34	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	12/12/11 13:34	
1,2,3-Trichloropropane	ug/kg	ND	5.0	12/12/11 13:34	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	12/12/11 13:34	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	12/12/11 13:34	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	12/12/11 13:34	
1,2-Dichlorobenzene	ug/kg	ND	5.0	12/12/11 13:34	
1,2-Dichloroethane	ug/kg	ND	5.0	12/12/11 13:34	
1,2-Dichloropropane	ug/kg	ND	5.0	12/12/11 13:34	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	12/12/11 13:34	
1,3-Dichlorobenzene	ug/kg	ND	5.0	12/12/11 13:34	
1,3-Dichloropropane	ug/kg	ND	5.0	12/12/11 13:34	
1,4-Dichlorobenzene	ug/kg	ND	5.0	12/12/11 13:34	
2,2-Dichloropropane	ug/kg	ND	5.0	12/12/11 13:34	
2-Butanone (MEK)	ug/kg	ND	25.0	12/12/11 13:34	
2-Chlorotoluene	ug/kg	ND	5.0	12/12/11 13:34	
2-Hexanone	ug/kg	ND	100	12/12/11 13:34	
4-Chlorotoluene	ug/kg	ND	5.0	12/12/11 13:34	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	12/12/11 13:34	
Acetone	ug/kg	ND	100	12/12/11 13:34	
Acrolein	ug/kg	ND	100	12/12/11 13:34	
Acrylonitrile	ug/kg	ND	100	12/12/11 13:34	
Benzene	ug/kg	ND	5.0	12/12/11 13:34	
Bromobenzene	ug/kg	ND	5.0	12/12/11 13:34	
Bromochloromethane	ug/kg	ND	5.0	12/12/11 13:34	
Bromodichloromethane	ug/kg	ND	5.0	12/12/11 13:34	
Bromoform	ug/kg	ND	5.0	12/12/11 13:34	
Bromomethane	ug/kg	ND	5.0	12/12/11 13:34	
Carbon disulfide	ug/kg	ND	10.0	12/12/11 13:34	
Carbon tetrachloride	ug/kg	ND	5.0	12/12/11 13:34	
Chlorobenzene	ug/kg	ND	5.0	12/12/11 13:34	
Chloroethane	ug/kg	ND	5.0	12/12/11 13:34	
Chloroform	ug/kg	ND	5.0	12/12/11 13:34	
Chloromethane	ug/kg	ND	5.0	12/12/11 13:34	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	12/12/11 13:34	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	12/12/11 13:34	
Dibromochloromethane	ug/kg	ND	5.0	12/12/11 13:34	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055573

METHOD BLANK: 659571 Matrix: Solid

Associated Lab Samples: 5055573001, 5055573002, 5055573003, 5055573004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	5.0	12/12/11 13:34	
Dichlorodifluoromethane	ug/kg	ND	5.0	12/12/11 13:34	
Ethyl methacrylate	ug/kg	ND	100	12/12/11 13:34	
Ethylbenzene	ug/kg	ND	5.0	12/12/11 13:34	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	12/12/11 13:34	
Iodomethane	ug/kg	ND	100	12/12/11 13:34	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	12/12/11 13:34	
Methyl-tert-butyl ether	ug/kg	ND	5.0	12/12/11 13:34	
Methylene Chloride	ug/kg	ND	20.0	12/12/11 13:34	
n-Butylbenzene	ug/kg	ND	5.0	12/12/11 13:34	
n-Hexane	ug/kg	ND	5.0	12/12/11 13:34	N2
n-Propylbenzene	ug/kg	ND	5.0	12/12/11 13:34	
Naphthalene	ug/kg	ND	5.0	12/12/11 13:34	
p-Isopropyltoluene	ug/kg	ND	5.0	12/12/11 13:34	
sec-Butylbenzene	ug/kg	ND	5.0	12/12/11 13:34	
Styrene	ug/kg	ND	5.0	12/12/11 13:34	
tert-Butylbenzene	ug/kg	ND	5.0	12/12/11 13:34	
Tetrachloroethene	ug/kg	ND	5.0	12/12/11 13:34	
Toluene	ug/kg	ND	5.0	12/12/11 13:34	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	12/12/11 13:34	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	12/12/11 13:34	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	12/12/11 13:34	
Trichloroethene	ug/kg	ND	5.0	12/12/11 13:34	
Trichlorofluoromethane	ug/kg	ND	5.0	12/12/11 13:34	
Vinyl acetate	ug/kg	ND	100	12/12/11 13:34	
Vinyl chloride	ug/kg	ND	5.0	12/12/11 13:34	
Xylene (Total)	ug/kg	ND	10.0	12/12/11 13:34	
4-Bromofluorobenzene (S)	%	98	67-134	12/12/11 13:34	
Dibromofluoromethane (S)	%	97	71-125	12/12/11 13:34	
Toluene-d8 (S)	%	100	76-124	12/12/11 13:34	

LABORATORY CONTROL SAMPLE: 659572

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	42.5	85	70-130	
1,1,1-Trichloroethane	ug/kg	50	42.3	85	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	50	43.0	86	70-130	
1,1,2-Trichloroethane	ug/kg	50	43.5	87	70-130	
1,1-Dichloroethane	ug/kg	50	41.8	84	70-130	
1,1-Dichloroethene	ug/kg	50	42.0	84	70-130	
1,1-Dichloropropene	ug/kg	50	41.5	83	70-130	
1,2,3-Trichlorobenzene	ug/kg	50	40.2	80	70-130	
1,2,3-Trichloropropane	ug/kg	50	66.6	133	70-130	L3
1,2,4-Trichlorobenzene	ug/kg	50	40.7	81	70-130	
1,2,4-Trimethylbenzene	ug/kg	50	40.4	81	70-130	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055573

LABORATORY CONTROL SAMPLE: 659572

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/kg	50	41.1	82	70-130	
1,2-Dichlorobenzene	ug/kg	50	40.1	80	70-130	
1,2-Dichloroethane	ug/kg	50	41.8	84	70-130	
1,2-Dichloropropane	ug/kg	50	40.5	81	70-130	
1,3,5-Trimethylbenzene	ug/kg	50	39.8	80	70-130	
1,3-Dichlorobenzene	ug/kg	50	39.6	79	70-130	
1,3-Dichloropropane	ug/kg	50	40.5	81	70-130	
1,4-Dichlorobenzene	ug/kg	50	44.4	89	70-130	
2,2-Dichloropropane	ug/kg	50	41.7	83	40-160	
2-Butanone (MEK)	ug/kg	250	211	84	40-160	
2-Chlorotoluene	ug/kg	50	45.1	90	70-130	
2-Hexanone	ug/kg	250	204	82	40-160	
4-Chlorotoluene	ug/kg	50	41.6	83	70-130	
4-Methyl-2-pentanone (MIBK)	ug/kg	250	197	79	70-130	
Acetone	ug/kg	250	281	112	40-160	
Acrolein	ug/kg	1000	1360	136	40-160	
Acrylonitrile	ug/kg	1000	819	82	70-130	
Benzene	ug/kg	50	38.3	77	70-130	
Bromobenzene	ug/kg	50	40.4	81	70-130	
Bromochloromethane	ug/kg	50	42.2	84	70-130	
Bromodichloromethane	ug/kg	50	41.1	82	70-130	
Bromoform	ug/kg	50	36.0	72	70-130	
Bromomethane	ug/kg	50	65.5	131	40-160	
Carbon disulfide	ug/kg	100	87.2	87	40-160	
Carbon tetrachloride	ug/kg	50	39.0	78	70-130	
Chlorobenzene	ug/kg	50	40.3	81	70-130	
Chloroethane	ug/kg	50	57.2	114	70-130	
Chloroform	ug/kg	50	43.0	86	70-130	
Chloromethane	ug/kg	50	56.0	112	70-130	
cis-1,2-Dichloroethene	ug/kg	50	39.7	79	70-130	
cis-1,3-Dichloropropene	ug/kg	50	40.3	81	70-130	
Dibromochloromethane	ug/kg	50	42.1	84	70-130	
Dibromomethane	ug/kg	50	43.5	87	70-130	
Dichlorodifluoromethane	ug/kg	50	52.6	105	70-130	
Ethyl methacrylate	ug/kg	200	170	85	40-160	
Ethylbenzene	ug/kg	50	40.6	81	70-130	
Hexachloro-1,3-butadiene	ug/kg	50	39.1	78	70-130	
Iodomethane	ug/kg	100	92.7J	93	70-130	
Isopropylbenzene (Cumene)	ug/kg	50	42.4	85	70-130	
Methyl-tert-butyl ether	ug/kg	100	82.9	83	40-160	
Methylene Chloride	ug/kg	50	42.6	85	70-130	
n-Butylbenzene	ug/kg	50	41.7	83	70-130	
n-Hexane	ug/kg	50	36.7	73	70-130	N2
n-Propylbenzene	ug/kg	50	45.2	90	70-130	
Naphthalene	ug/kg	50	39.9	80	70-130	
p-Isopropyltoluene	ug/kg	50	41.3	83	70-130	
sec-Butylbenzene	ug/kg	50	40.0	80	70-130	
Styrene	ug/kg	50	41.2	82	70-130	

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

QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055573

LABORATORY CONTROL SAMPLE: 659572

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/kg	50	32.4	65	70-130	L0
Tetrachloroethene	ug/kg	50	41.2	82	70-130	
Toluene	ug/kg	50	39.7	79	70-130	
trans-1,2-Dichloroethene	ug/kg	50	40.3	81	70-130	
trans-1,3-Dichloropropene	ug/kg	50	40.3	81	70-130	
trans-1,4-Dichloro-2-butene	ug/kg	200	151	75	70-130	
Trichloroethene	ug/kg	50	39.3	79	70-130	
Trichlorofluoromethane	ug/kg	50	57.0	114	70-130	
Vinyl acetate	ug/kg	200	141	71	40-160	
Vinyl chloride	ug/kg	50	52.2	104	70-130	
Xylene (Total)	ug/kg	150	130	87	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			103	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 659573 659574

Parameter	Units	5055573003 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	38.8	39.5	24.4	19.5	63	50	10-111	22	20	
1,1,1-Trichloroethane	ug/kg	ND	38.8	39.5	29.8	24.5	77	62	36-128	20	20	
1,1,2,2-Tetrachloroethane	ug/kg	ND	38.8	39.5	27.7	23.1	72	58	10-130	18	20	
1,1,2-Trichloroethane	ug/kg	ND	38.8	39.5	29.7	24.3	77	62	10-126	20	20	
1,1-Dichloroethane	ug/kg	ND	38.8	39.5	31.1	25.8	80	65	39-126	19	20	
1,1-Dichloroethene	ug/kg	ND	38.8	39.5	30.7	24.3	79	62	42-147	23	20	
1,1-Dichloropropene	ug/kg	ND	38.8	39.5	26.2	19.6	68	50	29-129	29	20	
1,2,3-Trichlorobenzene	ug/kg	ND	38.8	39.5	13.2	8.0	34	20	10-91	49	20	
1,2,3-Trichloropropane	ug/kg	ND	38.8	39.5	33.6	26.7	87	68	10-99	23	20	
1,2,4-Trichlorobenzene	ug/kg	ND	38.8	39.5	12.8	7.7	33	19	10-88	50	20	
1,2,4-Trimethylbenzene	ug/kg	ND	38.8	39.5	23.1	16.0	59	40	10-109	37	20	
1,2-Dibromoethane (EDB)	ug/kg	ND	38.8	39.5	24.0	19.1	62	48	10-119	23	20	
1,2-Dichlorobenzene	ug/kg	ND	38.8	39.5	18.5	12.4	48	32	10-104	39	20	
1,2-Dichloroethane	ug/kg	ND	38.8	39.5	29.4	24.8	76	63	19-126	17	20	
1,2-Dichloropropane	ug/kg	ND	38.8	39.5	29.4	24.0	76	61	24-123	20	20	
1,3,5-Trimethylbenzene	ug/kg	ND	38.8	39.5	23.8	16.6	61	42	10-118	36	20	
1,3-Dichlorobenzene	ug/kg	ND	38.8	39.5	17.5	11.6	45	29	10-108	40	20	
1,3-Dichloropropane	ug/kg	ND	38.8	39.5	26.1	21.4	67	54	12-121	20	20	
1,4-Dichlorobenzene	ug/kg	ND	38.8	39.5	18.5	12.1	48	31	10-104	42	20	
2,2-Dichloropropane	ug/kg	ND	38.8	39.5	29.9	24.7	77	62	32-124	19	20	
2-Butanone (MEK)	ug/kg	ND	194	197	217	193	112	98	10-183	12	20	
2-Chlorotoluene	ug/kg	ND	38.8	39.5	25.2	16.9	65	43	10-128	40	20	
2-Hexanone	ug/kg	ND	194	197	166	142	86	72	10-158	15	20	
4-Chlorotoluene	ug/kg	ND	38.8	39.5	20.5	13.8	53	35	10-119	39	20	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	194	197	150	133	77	68	12-130	12	20	
Acetone	ug/kg	106	194	197	627	1040	269	472	10-200	49	20	M0
Acrolein	ug/kg	ND	774	789	1100	956	142	121	10-200	14	20	
Acrylonitrile	ug/kg	ND	774	789	641	566	83	72	19-130	12	20	

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7726 Moller Road
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(317)875-5894

QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055573

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 659573 659574

Parameter	Units	5055573003 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	38.8	39.5	27.1	22.0	70	56	23-138	21	20	
Bromobenzene	ug/kg	ND	38.8	39.5	20.4	13.9	53	35	10-111	38	20	
Bromochloromethane	ug/kg	ND	38.8	39.5	29.5	25.6	76	65	26-126	14	20	
Bromodichloromethane	ug/kg	ND	38.8	39.5	22.9	19.0	59	48	10-120	18	20	
Bromoform	ug/kg	ND	38.8	39.5	15.8	13.0	41	33	10-106	19	20	
Bromomethane	ug/kg	ND	38.8	39.5	52.7	42.4	136	107	10-190	22	20	
Carbon disulfide	ug/kg	ND	77.4	78.9	57.3	43.7	74	55	31-128	27	20	
Carbon tetrachloride	ug/kg	ND	38.8	39.5	21.4	17.3	55	44	26-126	21	20	
Chlorobenzene	ug/kg	ND	38.8	39.5	22.3	16.2	57	41	10-120	31	20	
Chloroethane	ug/kg	ND	38.8	39.5	46.0	37.8	119	96	18-186	19	20	
Chloroform	ug/kg	ND	38.8	39.5	30.6	25.4	79	64	29-126	19	20	
Chloromethane	ug/kg	ND	38.8	39.5	49.0	38.2	126	97	34-131	25	20	
cis-1,2-Dichloroethene	ug/kg	ND	38.8	39.5	27.2	22.2	70	56	28-132	20	20	
cis-1,3-Dichloropropene	ug/kg	ND	38.8	39.5	18.4	14.8	48	37	10-108	22	20	
Dibromochloromethane	ug/kg	ND	38.8	39.5	19.0	15.6	49	40	10-108	20	20	
Dibromomethane	ug/kg	ND	38.8	39.5	28.6	24.1	74	61	13-122	17	20	
Dichlorodifluoromethane	ug/kg	ND	38.8	39.5	41.6	34.8	107	88	10-197	18	20	
Ethyl methacrylate	ug/kg	ND	155	158	114	95.7	74	61	10-130	17	20	
Ethylbenzene	ug/kg	ND	38.8	39.5	24.3	17.4	63	44	10-135	33	20	
Hexachloro-1,3-butadiene	ug/kg	ND	38.8	39.5	17.7	11.5	46	29	10-105	42	20	
Iodomethane	ug/kg	ND	77.4	78.9	50.1J	53.2J	65	67	10-163		20	
Isopropylbenzene (Cumene)	ug/kg	ND	38.8	39.5	25.9	18.0	67	46	10-121	36	20	
Methyl-tert-butyl ether	ug/kg	ND	77.4	78.9	68.1	57.8	88	73	20-140	16	20	
Methylene Chloride	ug/kg	ND	38.8	39.5	28.8	23.6	74	60	28-131	20	20	
n-Butylbenzene	ug/kg	ND	38.8	39.5	19.7	13.1	51	33	10-110	40	20	
n-Hexane	ug/kg	ND	38.8	39.5	20.5	13.0	53	33	21-150	45	20	N2
n-Propylbenzene	ug/kg	ND	38.8	39.5	25.1	16.8	65	43	10-123	39	20	
Naphthalene	ug/kg	ND	38.8	39.5	16.1	11.0	42	28	10-106	38	20	
p-Isopropyltoluene	ug/kg	ND	38.8	39.5	23.4	15.8	60	40	10-117	39	20	
sec-Butylbenzene	ug/kg	ND	38.8	39.5	23.6	16.2	61	41	10-123	37	20	
Styrene	ug/kg	ND	38.8	39.5	22.0	15.4	57	39	10-119	35	20	
tert-Butylbenzene	ug/kg	ND	38.8	39.5	23.9	15.0	62	38	10-105	46	20	
Tetrachloroethene	ug/kg	ND	38.8	39.5	24.3	17.1	63	43	10-122	34	20	
Toluene	ug/kg	ND	38.8	39.5	25.5	19.4	65	48	10-131	27	20	
trans-1,2-Dichloroethene	ug/kg	ND	38.8	39.5	27.2	22.2	70	56	32-136	20	20	
trans-1,3-Dichloropropene	ug/kg	ND	38.8	39.5	18.4	14.8	48	37	10-101	22	20	
trans-1,4-Dichloro-2-butene	ug/kg	ND	155	158	67.4J	50.6J	43	32	10-104		20	
Trichloroethene	ug/kg	ND	38.8	39.5	24.6	18.4	63	47	15-133	29	20	
Trichlorofluoromethane	ug/kg	ND	38.8	39.5	43.7	35.0	113	89	37-152	22	20	
Vinyl acetate	ug/kg	ND	155	158	83.0	75.5J	54	48	10-103		20	
Vinyl chloride	ug/kg	ND	38.8	39.5	41.5	34.6	107	88	41-147	18	20	
Xylene (Total)	ug/kg	ND	116	118	77.6	54.5	67	46	10-131	35	20	
4-Bromofluorobenzene (S)	%						99	99	67-134		20	
Dibromofluoromethane (S)	%						101	101	71-125		20	1d
Toluene-d8 (S)	%						100	100	76-124		20	

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Pace Analytical Services, Inc.
7726 Moller Road
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(317)875-5894

QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055573

QC Batch: PMST/6542 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 5055573001, 5055573002, 5055573003, 5055573004

SAMPLE DUPLICATE: 657091

Parameter	Units	5055495009 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	20.5	20.5	.1	5	

SAMPLE DUPLICATE: 657092

Parameter	Units	5055573003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	7.1	8.9	22	5	R2

SAMPLE DUPLICATE: 657093

Parameter	Units	5055570002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	16.0	13.9	14	5	R2

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QUALIFIERS

Project: Michigan Plaza M01046
Pace Project No.: 5055573

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.

ANALYTE QUALIFIERS

1d	Several compounds are outside of the acceptance limits for RPD value. Refer to the LCS for system control. aa 12/13/11
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
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.
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.
R2	RPD value was outside control limits due to matrix interference

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Michigan Plaza M01046
Pace Project No.: 5055573

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5055573005	**MMWC02D:420**	EPA 8260	MSV/38007		
5055573006	**MMWC02D:320**	EPA 8260	MSV/38007		
5055573007	**MMWC02D:220**	EPA 8260	MSV/38007		
5055573008	**MMWP14D:240**	EPA 8260	MSV/38007		
5055573009	**MMWP14D:340**	EPA 8260	MSV/38007		
5055573010	**Trip Blank**	EPA 8260	MSV/38007		
5055573001	**MMWC02D:175190**	EPA 8260	MSV/38008		
5055573002	**MMWC02D:400420**	EPA 8260	MSV/38008		
5055573003	**MMWP14D:380400**	EPA 8260	MSV/38008		
5055573004	**MMWP14D:190200**	EPA 8260	MSV/38008		
5055573001	**MMWC02D:175190**	ASTM D2974-87	PMST/6542		
5055573002	**MMWC02D:400420**	ASTM D2974-87	PMST/6542		
5055573003	**MMWP14D:380400**	ASTM D2974-87	PMST/6542		
5055573004	**MMWP14D:190200**	ASTM D2974-87	PMST/6542		

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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

1514882

Section A Required Client Information:

Company: Mundell
Address:
Email To: swebb@mundell associates.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Sarah Webb
Copy To:
Purchase Order No.:
Project Name: MD1046
Project Number: Michigan Plaza

Section C Invoice Information:

Attention: Irene 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: IN

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	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: 8260 Full	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MMWC02D:175190	S	G	12/5	1300			TC	1									X		-001
2	MMWC02D:400420	S	G	12/6	1000			TC	1									X		-002
3	MMWC02D:420	W	G		1100				3				X					X		-005
4	MMWC02D:320	W	G		1110				3				X					X		-006
5	MMWC02D:220	W	G		1120				3				X					X		-007
6	MMWP14D:380400	S	G		1430			TC	3									X		MS/MSD -003
7	MMWP14D:190200	S	G		1330			TC	1									X		-004
8	MMWP14D:240	W	G		1450				3				X					X		008
9	MMWP14D:340	W	G		1440				9				X					X		MS/MSD 009
10	TRIP BLANK	W			12/7/11 TMD				3	X								X		-010
11																				
12																				

5055573

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Sarah E Webb	12/7/11	1:26	[illegible]	12/7/11	1:26	3.9°C	Y	N	Y

WI / Pace KO 1254 12/7/11

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

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 # 5055573

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

Tracking #: 1514882

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

Date/Time 5035A kits placed in freezer: 12-7-11 12:44

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): 3.9°C

Ice Visible in Sample Containers: ☐ yes ☑ no

Temp should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: LCO 12-7-11

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.* Trip Blanks All Three
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: Sarah Webb Date/Time: 12/7/11 @ 5:15

Comments/ Resolution:

* All VOA Samples except C020-22 (1)

Analyze per Sarah W. w/ vials that has headspace.

Project Manager Review: M. D. Morgan **Date:** 12/7/11

Sample Container Count

CLIENT: Mundell

COC PAGE 1 of 1

COC ID#

Project # 5055573

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

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

December 20, 2011

Ms. Sarah Webb
Mundell & Associates
110 South Downey Ave.
Indianapolis, IN 46219

RE: Project: Michigan Plaza M01046
Pace Project No.: 5055610

Dear Ms. Webb:
Enclosed are the analytical results for sample(s) received by the laboratory on December 08, 2011. 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@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: Michigan Plaza M01046
Pace Project No.: 5055610

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
Wisconsin DATCP Certification #: 105-444

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 100418
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana/NELAC Certification #: 04076
Ohio VAP: CL0065
West Virginia Certification #: 330

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SAMPLE SUMMARY

Project: Michigan Plaza M01046
Pace Project No.: 5055610

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5055610001	**GP20:16-18**	Solid	12/07/11 10:55	12/08/11 11:22
5055610002	**GP20:40-42**	Solid	12/07/11 10:55	12/08/11 11:22
5055610003	**GP21:40-42**	Solid	12/07/11 14:35	12/08/11 11:22
5055610004	**GP21:18-20**	Solid	12/07/11 14:40	12/08/11 11:22
5055610005	**SFD-1**	Solid	12/07/11 08:00	12/08/11 11:22
5055610006	**GP21:40-42**	Solid	12/07/11 14:35	12/08/11 11:22
5055610007	**GP21:18-20**	Solid	12/07/11 14:40	12/08/11 11:22
5055610008	**GP20:39**	Water	12/07/11 11:00	12/08/11 11:22
5055610009	**GP20:30**	Water	12/07/11 11:15	12/08/11 11:22
5055610010	**GP21:38**	Water	12/07/11 14:49	12/08/11 11:22
5055610011	**GP21:28**	Water	12/07/11 15:05	12/08/11 11:22
5055610012	**WFD-1**	Water	12/07/11 08:00	12/08/11 11:22
5055610013	**Trip Blank**	Water	12/07/11 08:00	12/08/11 11:22

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SAMPLE ANALYTE COUNT

Project: Michigan Plaza M01046
Pace Project No.: 5055610

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
5055610001	**GP20:16-18**	EPA 8260	RSW	73	PASI-I
		ASTM D2974-87	CTW	1	PASI-I
		Walkley Black	TJJ	3	PASI-G
5055610002	**GP20:40-42**	EPA 8260	RSW	73	PASI-I
		ASTM D2974-87	CTW	1	PASI-I
		Walkley Black	TJJ	3	PASI-G
5055610003	**GP21:40-42**	EPA 8260	RSW	73	PASI-I
		ASTM D2974-87	CTW	1	PASI-I
5055610004	**GP21:18-20**	EPA 8260	RSW	73	PASI-I
		ASTM D2974-87	CTW	1	PASI-I
5055610005	**SFD-1**	EPA 8260	RSW	73	PASI-I
		ASTM D2974-87	CTW	1	PASI-I
		Walkley Black	TJJ	3	PASI-G
5055610006	**GP21:40-42**	Walkley Black	TJJ	3	PASI-G
5055610007	**GP21:18-20**	Walkley Black	TJJ	3	PASI-G
5055610008	**GP20:39**	EPA 8260	RSW	73	PASI-I
5055610009	**GP20:30**	EPA 8260	RSW	73	PASI-I
5055610010	**GP21:38**	EPA 8260	RSW	73	PASI-I
5055610011	**GP21:28**	EPA 8260	RSW	73	PASI-I
5055610012	**WFD-1**	EPA 8260	RSW	73	PASI-I
5055610013	**Trip Blank**	EPA 8260	RSW	73	PASI-I

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055610

Sample: GP20:16-18 **Lab ID: 5055610001** Collected: 12/07/11 10:55 Received: 12/08/11 11:22 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	89.7	1		12/18/11 04:36	67-64-1	
Acrolein	ND	ug/kg	89.7	1		12/18/11 04:36	107-02-8	
Acrylonitrile	ND	ug/kg	89.7	1		12/18/11 04:36	107-13-1	
Benzene	ND	ug/kg	4.5	1		12/18/11 04:36	71-43-2	
Bromobenzene	ND	ug/kg	4.5	1		12/18/11 04:36	108-86-1	
Bromochloromethane	ND	ug/kg	4.5	1		12/18/11 04:36	74-97-5	
Bromodichloromethane	ND	ug/kg	4.5	1		12/18/11 04:36	75-27-4	
Bromoform	ND	ug/kg	4.5	1		12/18/11 04:36	75-25-2	
Bromomethane	ND	ug/kg	4.5	1		12/18/11 04:36	74-83-9	
2-Butanone (MEK)	ND	ug/kg	22.4	1		12/18/11 04:36	78-93-3	
n-Butylbenzene	ND	ug/kg	4.5	1		12/18/11 04:36	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.5	1		12/18/11 04:36	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.5	1		12/18/11 04:36	98-06-6	
Carbon disulfide	ND	ug/kg	9.0	1		12/18/11 04:36	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.5	1		12/18/11 04:36	56-23-5	
Chlorobenzene	ND	ug/kg	4.5	1		12/18/11 04:36	108-90-7	
Chloroethane	ND	ug/kg	4.5	1		12/18/11 04:36	75-00-3	
Chloroform	ND	ug/kg	4.5	1		12/18/11 04:36	67-66-3	
Chloromethane	ND	ug/kg	4.5	1		12/18/11 04:36	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.5	1		12/18/11 04:36	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.5	1		12/18/11 04:36	106-43-4	
Dibromochloromethane	ND	ug/kg	4.5	1		12/18/11 04:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.5	1		12/18/11 04:36	106-93-4	
Dibromomethane	ND	ug/kg	4.5	1		12/18/11 04:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.5	1		12/18/11 04:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.5	1		12/18/11 04:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.5	1		12/18/11 04:36	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	89.7	1		12/18/11 04:36	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.5	1		12/18/11 04:36	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.5	1		12/18/11 04:36	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.5	1		12/18/11 04:36	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.5	1		12/18/11 04:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.5	1		12/18/11 04:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.5	1		12/18/11 04:36	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.5	1		12/18/11 04:36	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.5	1		12/18/11 04:36	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.5	1		12/18/11 04:36	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.5	1		12/18/11 04:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.5	1		12/18/11 04:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.5	1		12/18/11 04:36	10061-02-6	
Ethylbenzene	ND	ug/kg	4.5	1		12/18/11 04:36	100-41-4	
Ethyl methacrylate	ND	ug/kg	89.7	1		12/18/11 04:36	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.5	1		12/18/11 04:36	87-68-3	
n-Hexane	ND	ug/kg	4.5	1		12/18/11 04:36	110-54-3	
2-Hexanone	ND	ug/kg	89.7	1		12/18/11 04:36	591-78-6	
Iodomethane	ND	ug/kg	89.7	1		12/18/11 04:36	74-88-4	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055610

Sample: GP20:16-18 **Lab ID: 5055610001** Collected: 12/07/11 10:55 Received: 12/08/11 11:22 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	4.5	1		12/18/11 04:36	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.5	1		12/18/11 04:36	99-87-6	
Methylene Chloride	ND	ug/kg	17.9	1		12/18/11 04:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	22.4	1		12/18/11 04:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.5	1		12/18/11 04:36	1634-04-4	
Naphthalene	ND	ug/kg	4.5	1		12/18/11 04:36	91-20-3	
n-Propylbenzene	ND	ug/kg	4.5	1		12/18/11 04:36	103-65-1	
Styrene	ND	ug/kg	4.5	1		12/18/11 04:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.5	1		12/18/11 04:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.5	1		12/18/11 04:36	79-34-5	
Tetrachloroethene	ND	ug/kg	4.5	1		12/18/11 04:36	127-18-4	
Toluene	ND	ug/kg	4.5	1		12/18/11 04:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.5	1		12/18/11 04:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.5	1		12/18/11 04:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.5	1		12/18/11 04:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.5	1		12/18/11 04:36	79-00-5	
Trichloroethene	ND	ug/kg	4.5	1		12/18/11 04:36	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.5	1		12/18/11 04:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.5	1		12/18/11 04:36	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.5	1		12/18/11 04:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.5	1		12/18/11 04:36	108-67-8	
Vinyl acetate	ND	ug/kg	89.7	1		12/18/11 04:36	108-05-4	
Vinyl chloride	ND	ug/kg	4.5	1		12/18/11 04:36	75-01-4	
Xylene (Total)	ND	ug/kg	9.0	1		12/18/11 04:36	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%.	71-125	1		12/18/11 04:36	1868-53-7	
Toluene-d8 (S)	101	%.	76-124	1		12/18/11 04:36	2037-26-5	
4-Bromofluorobenzene (S)	108	%.	67-134	1		12/18/11 04:36	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**3.7**	%	0.10	1		12/10/11 08:18		
Organic Carbon Walkley Black	Analytical Method: Walkley Black							
Total Organic Carbon	**2250**	mg/kg	398	1		12/15/11 15:03	7440-44-0	
Total Organic Carbon	**2700**	mg/kg	398	1		12/15/11 15:03	7440-44-0	
Total Organic Carbon	**3440**	mg/kg	398	1		12/15/11 15:03	7440-44-0	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055610

Sample: GP20:40-42 **Lab ID: 5055610002** Collected: 12/07/11 10:55 Received: 12/08/11 11:22 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	77.0	1		12/18/11 05:09	67-64-1	
Acrolein	ND	ug/kg	77.0	1		12/18/11 05:09	107-02-8	
Acrylonitrile	ND	ug/kg	77.0	1		12/18/11 05:09	107-13-1	
Benzene	ND	ug/kg	3.8	1		12/18/11 05:09	71-43-2	
Bromobenzene	ND	ug/kg	3.8	1		12/18/11 05:09	108-86-1	
Bromochloromethane	ND	ug/kg	3.8	1		12/18/11 05:09	74-97-5	
Bromodichloromethane	ND	ug/kg	3.8	1		12/18/11 05:09	75-27-4	
Bromoform	ND	ug/kg	3.8	1		12/18/11 05:09	75-25-2	
Bromomethane	ND	ug/kg	3.8	1		12/18/11 05:09	74-83-9	
2-Butanone (MEK)	ND	ug/kg	19.2	1		12/18/11 05:09	78-93-3	
n-Butylbenzene	ND	ug/kg	3.8	1		12/18/11 05:09	104-51-8	
sec-Butylbenzene	ND	ug/kg	3.8	1		12/18/11 05:09	135-98-8	
tert-Butylbenzene	ND	ug/kg	3.8	1		12/18/11 05:09	98-06-6	
Carbon disulfide	ND	ug/kg	7.7	1		12/18/11 05:09	75-15-0	
Carbon tetrachloride	ND	ug/kg	3.8	1		12/18/11 05:09	56-23-5	
Chlorobenzene	ND	ug/kg	3.8	1		12/18/11 05:09	108-90-7	
Chloroethane	ND	ug/kg	3.8	1		12/18/11 05:09	75-00-3	
Chloroform	ND	ug/kg	3.8	1		12/18/11 05:09	67-66-3	
Chloromethane	ND	ug/kg	3.8	1		12/18/11 05:09	74-87-3	
2-Chlorotoluene	ND	ug/kg	3.8	1		12/18/11 05:09	95-49-8	
4-Chlorotoluene	ND	ug/kg	3.8	1		12/18/11 05:09	106-43-4	
Dibromochloromethane	ND	ug/kg	3.8	1		12/18/11 05:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.8	1		12/18/11 05:09	106-93-4	
Dibromomethane	ND	ug/kg	3.8	1		12/18/11 05:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.8	1		12/18/11 05:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.8	1		12/18/11 05:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.8	1		12/18/11 05:09	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	77.0	1		12/18/11 05:09	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	3.8	1		12/18/11 05:09	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.8	1		12/18/11 05:09	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.8	1		12/18/11 05:09	107-06-2	
1,1-Dichloroethene	ND	ug/kg	3.8	1		12/18/11 05:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	3.8	1		12/18/11 05:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.8	1		12/18/11 05:09	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.8	1		12/18/11 05:09	78-87-5	
1,3-Dichloropropane	ND	ug/kg	3.8	1		12/18/11 05:09	142-28-9	
2,2-Dichloropropane	ND	ug/kg	3.8	1		12/18/11 05:09	594-20-7	
1,1-Dichloropropene	ND	ug/kg	3.8	1		12/18/11 05:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	3.8	1		12/18/11 05:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.8	1		12/18/11 05:09	10061-02-6	
Ethylbenzene	ND	ug/kg	3.8	1		12/18/11 05:09	100-41-4	
Ethyl methacrylate	ND	ug/kg	77.0	1		12/18/11 05:09	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	3.8	1		12/18/11 05:09	87-68-3	
n-Hexane	ND	ug/kg	3.8	1		12/18/11 05:09	110-54-3	
2-Hexanone	ND	ug/kg	77.0	1		12/18/11 05:09	591-78-6	
Iodomethane	ND	ug/kg	77.0	1		12/18/11 05:09	74-88-4	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055610

Sample: GP20:40-42 **Lab ID: 5055610002** Collected: 12/07/11 10:55 Received: 12/08/11 11:22 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		12/18/11 05:09	98-82-8	
p-Isopropyltoluene	ND	ug/kg	3.8	1		12/18/11 05:09	99-87-6	
Methylene Chloride	ND	ug/kg	15.4	1		12/18/11 05:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	19.2	1		12/18/11 05:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	3.8	1		12/18/11 05:09	1634-04-4	
Naphthalene	ND	ug/kg	3.8	1		12/18/11 05:09	91-20-3	
n-Propylbenzene	ND	ug/kg	3.8	1		12/18/11 05:09	103-65-1	
Styrene	ND	ug/kg	3.8	1		12/18/11 05:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.8	1		12/18/11 05:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.8	1		12/18/11 05:09	79-34-5	
Tetrachloroethene	ND	ug/kg	3.8	1		12/18/11 05:09	127-18-4	
Toluene	ND	ug/kg	3.8	1		12/18/11 05:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	3.8	1		12/18/11 05:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	3.8	1		12/18/11 05:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	3.8	1		12/18/11 05:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.8	1		12/18/11 05:09	79-00-5	
Trichloroethene	ND	ug/kg	3.8	1		12/18/11 05:09	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.8	1		12/18/11 05:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	3.8	1		12/18/11 05:09	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	3.8	1		12/18/11 05:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	3.8	1		12/18/11 05:09	108-67-8	
Vinyl acetate	ND	ug/kg	77.0	1		12/18/11 05:09	108-05-4	
Vinyl chloride	ND	ug/kg	3.8	1		12/18/11 05:09	75-01-4	
Xylene (Total)	ND	ug/kg	7.7	1		12/18/11 05:09	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	71-125	1		12/18/11 05:09	1868-53-7	
Toluene-d8 (S)	97	%.	76-124	1		12/18/11 05:09	2037-26-5	
4-Bromofluorobenzene (S)	97	%.	67-134	1		12/18/11 05:09	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**11.0**	%	0.10	1		12/10/11 08:18		
Organic Carbon Walkley Black	Analytical Method: Walkley Black							
Total Organic Carbon	**7060**	mg/kg	400	1		12/15/11 15:03	7440-44-0	
Total Organic Carbon	**6770**	mg/kg	400	1		12/15/11 15:03	7440-44-0	
Total Organic Carbon	**6260**	mg/kg	400	1		12/15/11 15:03	7440-44-0	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055610

Sample: GP21:40-42 **Lab ID: 5055610003** Collected: 12/07/11 14:35 Received: 12/08/11 11:22 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	82.4	1		12/19/11 13:14	67-64-1	
Acrolein	ND	ug/kg	82.4	1		12/19/11 13:14	107-02-8	
Acrylonitrile	ND	ug/kg	82.4	1		12/19/11 13:14	107-13-1	
Benzene	ND	ug/kg	4.1	1		12/19/11 13:14	71-43-2	
Bromobenzene	ND	ug/kg	4.1	1		12/19/11 13:14	108-86-1	
Bromochloromethane	ND	ug/kg	4.1	1		12/19/11 13:14	74-97-5	
Bromodichloromethane	ND	ug/kg	4.1	1		12/19/11 13:14	75-27-4	
Bromoform	ND	ug/kg	4.1	1		12/19/11 13:14	75-25-2	
Bromomethane	ND	ug/kg	4.1	1		12/19/11 13:14	74-83-9	
2-Butanone (MEK)	ND	ug/kg	20.6	1		12/19/11 13:14	78-93-3	
n-Butylbenzene	ND	ug/kg	4.1	1		12/19/11 13:14	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.1	1		12/19/11 13:14	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.1	1		12/19/11 13:14	98-06-6	
Carbon disulfide	ND	ug/kg	8.2	1		12/19/11 13:14	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.1	1		12/19/11 13:14	56-23-5	
Chlorobenzene	ND	ug/kg	4.1	1		12/19/11 13:14	108-90-7	
Chloroethane	ND	ug/kg	4.1	1		12/19/11 13:14	75-00-3	
Chloroform	ND	ug/kg	4.1	1		12/19/11 13:14	67-66-3	
Chloromethane	ND	ug/kg	4.1	1		12/19/11 13:14	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.1	1		12/19/11 13:14	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.1	1		12/19/11 13:14	106-43-4	
Dibromochloromethane	ND	ug/kg	4.1	1		12/19/11 13:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.1	1		12/19/11 13:14	106-93-4	
Dibromomethane	ND	ug/kg	4.1	1		12/19/11 13:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.1	1		12/19/11 13:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.1	1		12/19/11 13:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.1	1		12/19/11 13:14	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	82.4	1		12/19/11 13:14	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.1	1		12/19/11 13:14	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.1	1		12/19/11 13:14	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.1	1		12/19/11 13:14	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.1	1		12/19/11 13:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.1	1		12/19/11 13:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.1	1		12/19/11 13:14	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.1	1		12/19/11 13:14	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.1	1		12/19/11 13:14	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.1	1		12/19/11 13:14	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.1	1		12/19/11 13:14	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.1	1		12/19/11 13:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.1	1		12/19/11 13:14	10061-02-6	
Ethylbenzene	ND	ug/kg	4.1	1		12/19/11 13:14	100-41-4	
Ethyl methacrylate	ND	ug/kg	82.4	1		12/19/11 13:14	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.1	1		12/19/11 13:14	87-68-3	
n-Hexane	ND	ug/kg	4.1	1		12/19/11 13:14	110-54-3	
2-Hexanone	ND	ug/kg	82.4	1		12/19/11 13:14	591-78-6	
Iodomethane	ND	ug/kg	82.4	1		12/19/11 13:14	74-88-4	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055610

Sample: GP21:40-42 **Lab ID: 5055610003** Collected: 12/07/11 14:35 Received: 12/08/11 11:22 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	4.1	1		12/19/11 13:14	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.1	1		12/19/11 13:14	99-87-6	
Methylene Chloride	ND	ug/kg	16.5	1		12/19/11 13:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	20.6	1		12/19/11 13:14	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.1	1		12/19/11 13:14	1634-04-4	
Naphthalene	ND	ug/kg	4.1	1		12/19/11 13:14	91-20-3	
n-Propylbenzene	ND	ug/kg	4.1	1		12/19/11 13:14	103-65-1	
Styrene	ND	ug/kg	4.1	1		12/19/11 13:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.1	1		12/19/11 13:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.1	1		12/19/11 13:14	79-34-5	
Tetrachloroethene	ND	ug/kg	4.1	1		12/19/11 13:14	127-18-4	
Toluene	ND	ug/kg	4.1	1		12/19/11 13:14	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.1	1		12/19/11 13:14	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.1	1		12/19/11 13:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.1	1		12/19/11 13:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.1	1		12/19/11 13:14	79-00-5	
Trichloroethene	ND	ug/kg	4.1	1		12/19/11 13:14	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.1	1		12/19/11 13:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.1	1		12/19/11 13:14	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.1	1		12/19/11 13:14	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.1	1		12/19/11 13:14	108-67-8	
Vinyl acetate	ND	ug/kg	82.4	1		12/19/11 13:14	108-05-4	
Vinyl chloride	ND	ug/kg	4.1	1		12/19/11 13:14	75-01-4	
Xylene (Total)	ND	ug/kg	8.2	1		12/19/11 13:14	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%.	71-125	1		12/19/11 13:14	1868-53-7	
Toluene-d8 (S)	103	%.	76-124	1		12/19/11 13:14	2037-26-5	
4-Bromofluorobenzene (S)	96	%.	67-134	1		12/19/11 13:14	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**8.1**	%	0.10	1		12/10/11 08:18		

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055610

Sample: GP21:18-20 **Lab ID: 5055610004** Collected: 12/07/11 14:40 Received: 12/08/11 11:22 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	84.1	1		12/19/11 13:51	67-64-1	
Acrolein	ND	ug/kg	84.1	1		12/19/11 13:51	107-02-8	
Acrylonitrile	ND	ug/kg	84.1	1		12/19/11 13:51	107-13-1	
Benzene	ND	ug/kg	4.2	1		12/19/11 13:51	71-43-2	
Bromobenzene	ND	ug/kg	4.2	1		12/19/11 13:51	108-86-1	
Bromochloromethane	ND	ug/kg	4.2	1		12/19/11 13:51	74-97-5	
Bromodichloromethane	ND	ug/kg	4.2	1		12/19/11 13:51	75-27-4	
Bromoform	ND	ug/kg	4.2	1		12/19/11 13:51	75-25-2	
Bromomethane	ND	ug/kg	4.2	1		12/19/11 13:51	74-83-9	
2-Butanone (MEK)	ND	ug/kg	21.0	1		12/19/11 13:51	78-93-3	
n-Butylbenzene	ND	ug/kg	4.2	1		12/19/11 13:51	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.2	1		12/19/11 13:51	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.2	1		12/19/11 13:51	98-06-6	
Carbon disulfide	ND	ug/kg	8.4	1		12/19/11 13:51	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.2	1		12/19/11 13:51	56-23-5	
Chlorobenzene	ND	ug/kg	4.2	1		12/19/11 13:51	108-90-7	
Chloroethane	ND	ug/kg	4.2	1		12/19/11 13:51	75-00-3	
Chloroform	ND	ug/kg	4.2	1		12/19/11 13:51	67-66-3	
Chloromethane	ND	ug/kg	4.2	1		12/19/11 13:51	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.2	1		12/19/11 13:51	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.2	1		12/19/11 13:51	106-43-4	
Dibromochloromethane	ND	ug/kg	4.2	1		12/19/11 13:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.2	1		12/19/11 13:51	106-93-4	
Dibromomethane	ND	ug/kg	4.2	1		12/19/11 13:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.2	1		12/19/11 13:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.2	1		12/19/11 13:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.2	1		12/19/11 13:51	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	84.1	1		12/19/11 13:51	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.2	1		12/19/11 13:51	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.2	1		12/19/11 13:51	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.2	1		12/19/11 13:51	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.2	1		12/19/11 13:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.2	1		12/19/11 13:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.2	1		12/19/11 13:51	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.2	1		12/19/11 13:51	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.2	1		12/19/11 13:51	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.2	1		12/19/11 13:51	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.2	1		12/19/11 13:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.2	1		12/19/11 13:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.2	1		12/19/11 13:51	10061-02-6	
Ethylbenzene	ND	ug/kg	4.2	1		12/19/11 13:51	100-41-4	
Ethyl methacrylate	ND	ug/kg	84.1	1		12/19/11 13:51	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.2	1		12/19/11 13:51	87-68-3	
n-Hexane	ND	ug/kg	4.2	1		12/19/11 13:51	110-54-3	
2-Hexanone	ND	ug/kg	84.1	1		12/19/11 13:51	591-78-6	
Iodomethane	ND	ug/kg	84.1	1		12/19/11 13:51	74-88-4	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055610

Sample: GP21:18-20 **Lab ID: 5055610004** Collected: 12/07/11 14:40 Received: 12/08/11 11:22 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		12/19/11 13:51	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.2	1		12/19/11 13:51	99-87-6	
Methylene Chloride	ND	ug/kg	16.8	1		12/19/11 13:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	21.0	1		12/19/11 13:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.2	1		12/19/11 13:51	1634-04-4	
Naphthalene	ND	ug/kg	4.2	1		12/19/11 13:51	91-20-3	
n-Propylbenzene	ND	ug/kg	4.2	1		12/19/11 13:51	103-65-1	
Styrene	ND	ug/kg	4.2	1		12/19/11 13:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.2	1		12/19/11 13:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.2	1		12/19/11 13:51	79-34-5	
Tetrachloroethene	ND	ug/kg	4.2	1		12/19/11 13:51	127-18-4	
Toluene	ND	ug/kg	4.2	1		12/19/11 13:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.2	1		12/19/11 13:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.2	1		12/19/11 13:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.2	1		12/19/11 13:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.2	1		12/19/11 13:51	79-00-5	
Trichloroethene	ND	ug/kg	4.2	1		12/19/11 13:51	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.2	1		12/19/11 13:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.2	1		12/19/11 13:51	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.2	1		12/19/11 13:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.2	1		12/19/11 13:51	108-67-8	
Vinyl acetate	ND	ug/kg	84.1	1		12/19/11 13:51	108-05-4	
Vinyl chloride	ND	ug/kg	4.2	1		12/19/11 13:51	75-01-4	
Xylene (Total)	ND	ug/kg	8.4	1		12/19/11 13:51	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%.	71-125	1		12/19/11 13:51	1868-53-7	
Toluene-d8 (S)	101	%.	76-124	1		12/19/11 13:51	2037-26-5	
4-Bromofluorobenzene (S)	96	%.	67-134	1		12/19/11 13:51	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**3.8**	%	0.10	1		12/10/11 08:19		

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055610

Sample: SFD-1 **Lab ID: 5055610005** Collected: 12/07/11 08:00 Received: 12/08/11 11:22 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	70.3	1		12/19/11 14:27	67-64-1	
Acrolein	ND	ug/kg	70.3	1		12/19/11 14:27	107-02-8	
Acrylonitrile	ND	ug/kg	70.3	1		12/19/11 14:27	107-13-1	
Benzene	ND	ug/kg	3.5	1		12/19/11 14:27	71-43-2	
Bromobenzene	ND	ug/kg	3.5	1		12/19/11 14:27	108-86-1	
Bromochloromethane	ND	ug/kg	3.5	1		12/19/11 14:27	74-97-5	
Bromodichloromethane	ND	ug/kg	3.5	1		12/19/11 14:27	75-27-4	
Bromoform	ND	ug/kg	3.5	1		12/19/11 14:27	75-25-2	
Bromomethane	ND	ug/kg	3.5	1		12/19/11 14:27	74-83-9	
2-Butanone (MEK)	ND	ug/kg	17.6	1		12/19/11 14:27	78-93-3	
n-Butylbenzene	ND	ug/kg	3.5	1		12/19/11 14:27	104-51-8	
sec-Butylbenzene	ND	ug/kg	3.5	1		12/19/11 14:27	135-98-8	
tert-Butylbenzene	ND	ug/kg	3.5	1		12/19/11 14:27	98-06-6	
Carbon disulfide	ND	ug/kg	7.0	1		12/19/11 14:27	75-15-0	
Carbon tetrachloride	ND	ug/kg	3.5	1		12/19/11 14:27	56-23-5	
Chlorobenzene	ND	ug/kg	3.5	1		12/19/11 14:27	108-90-7	
Chloroethane	ND	ug/kg	3.5	1		12/19/11 14:27	75-00-3	
Chloroform	ND	ug/kg	3.5	1		12/19/11 14:27	67-66-3	
Chloromethane	ND	ug/kg	3.5	1		12/19/11 14:27	74-87-3	
2-Chlorotoluene	ND	ug/kg	3.5	1		12/19/11 14:27	95-49-8	
4-Chlorotoluene	ND	ug/kg	3.5	1		12/19/11 14:27	106-43-4	
Dibromochloromethane	ND	ug/kg	3.5	1		12/19/11 14:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.5	1		12/19/11 14:27	106-93-4	
Dibromomethane	ND	ug/kg	3.5	1		12/19/11 14:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.5	1		12/19/11 14:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.5	1		12/19/11 14:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.5	1		12/19/11 14:27	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	70.3	1		12/19/11 14:27	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	3.5	1		12/19/11 14:27	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.5	1		12/19/11 14:27	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.5	1		12/19/11 14:27	107-06-2	
1,1-Dichloroethene	ND	ug/kg	3.5	1		12/19/11 14:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	3.5	1		12/19/11 14:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.5	1		12/19/11 14:27	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.5	1		12/19/11 14:27	78-87-5	
1,3-Dichloropropane	ND	ug/kg	3.5	1		12/19/11 14:27	142-28-9	
2,2-Dichloropropane	ND	ug/kg	3.5	1		12/19/11 14:27	594-20-7	
1,1-Dichloropropene	ND	ug/kg	3.5	1		12/19/11 14:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	3.5	1		12/19/11 14:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.5	1		12/19/11 14:27	10061-02-6	
Ethylbenzene	ND	ug/kg	3.5	1		12/19/11 14:27	100-41-4	
Ethyl methacrylate	ND	ug/kg	70.3	1		12/19/11 14:27	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	3.5	1		12/19/11 14:27	87-68-3	
n-Hexane	ND	ug/kg	3.5	1		12/19/11 14:27	110-54-3	
2-Hexanone	ND	ug/kg	70.3	1		12/19/11 14:27	591-78-6	
Iodomethane	ND	ug/kg	70.3	1		12/19/11 14:27	74-88-4	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055610

Sample: SFD-1 **Lab ID: 5055610005** Collected: 12/07/11 08:00 Received: 12/08/11 11:22 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	3.5	1		12/19/11 14:27	98-82-8	
p-Isopropyltoluene	ND	ug/kg	3.5	1		12/19/11 14:27	99-87-6	
Methylene Chloride	ND	ug/kg	14.1	1		12/19/11 14:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	17.6	1		12/19/11 14:27	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	3.5	1		12/19/11 14:27	1634-04-4	
Naphthalene	ND	ug/kg	3.5	1		12/19/11 14:27	91-20-3	
n-Propylbenzene	ND	ug/kg	3.5	1		12/19/11 14:27	103-65-1	
Styrene	ND	ug/kg	3.5	1		12/19/11 14:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.5	1		12/19/11 14:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.5	1		12/19/11 14:27	79-34-5	
Tetrachloroethene	ND	ug/kg	3.5	1		12/19/11 14:27	127-18-4	
Toluene	ND	ug/kg	3.5	1		12/19/11 14:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	3.5	1		12/19/11 14:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	3.5	1		12/19/11 14:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	3.5	1		12/19/11 14:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.5	1		12/19/11 14:27	79-00-5	
Trichloroethene	ND	ug/kg	3.5	1		12/19/11 14:27	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.5	1		12/19/11 14:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	3.5	1		12/19/11 14:27	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	3.5	1		12/19/11 14:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	3.5	1		12/19/11 14:27	108-67-8	
Vinyl acetate	ND	ug/kg	70.3	1		12/19/11 14:27	108-05-4	
Vinyl chloride	ND	ug/kg	3.5	1		12/19/11 14:27	75-01-4	
Xylene (Total)	ND	ug/kg	7.0	1		12/19/11 14:27	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	109	%.	71-125	1		12/19/11 14:27	1868-53-7	
Toluene-d8 (S)	104	%.	76-124	1		12/19/11 14:27	2037-26-5	
4-Bromofluorobenzene (S)	95	%.	67-134	1		12/19/11 14:27	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**10.7**	%	0.10	1		12/10/11 08:19		
Organic Carbon Walkley Black	Analytical Method: Walkley Black							
Total Organic Carbon	**8340**	mg/kg	398	1		12/15/11 15:03	7440-44-0	
Total Organic Carbon	**8280**	mg/kg	398	1		12/15/11 15:03	7440-44-0	
Total Organic Carbon	**8280**	mg/kg	398	1		12/15/11 15:03	7440-44-0	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055610

Sample: GP21:40-42 **Lab ID: 5055610006** Collected: 12/07/11 14:35 Received: 12/08/11 11:22 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Organic Carbon Walkley Black	Analytical Method: Walkley Black							
Total Organic Carbon	**8390**	mg/kg	401	1		12/15/11 15:03	7440-44-0	
Total Organic Carbon	**7240**	mg/kg	401	1		12/15/11 15:03	7440-44-0	
Total Organic Carbon	**7130**	mg/kg	401	1		12/15/11 15:03	7440-44-0	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055610

Sample: GP21:18-20 **Lab ID: 5055610007** Collected: 12/07/11 14:40 Received: 12/08/11 11:22 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Organic Carbon Walkley Black	Analytical Method: Walkley Black							
Total Organic Carbon	**6260**	mg/kg	400	1		12/15/11 15:03	7440-44-0	
Total Organic Carbon	**5860**	mg/kg	400	1		12/15/11 15:03	7440-44-0	
Total Organic Carbon	**5690**	mg/kg	400	1		12/15/11 15:03	7440-44-0	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055610

Sample: GP20:39 **Lab ID: 5055610008** Collected: 12/07/11 11:00 Received: 12/08/11 11:22 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		12/18/11 00:15	67-64-1	
Acrolein	ND	ug/L	50.0	1		12/18/11 00:15	107-02-8	
Acrylonitrile	ND	ug/L	100	1		12/18/11 00:15	107-13-1	
Benzene	ND	ug/L	5.0	1		12/18/11 00:15	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		12/18/11 00:15	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		12/18/11 00:15	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		12/18/11 00:15	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/18/11 00:15	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/18/11 00:15	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		12/18/11 00:15	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		12/18/11 00:15	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		12/18/11 00:15	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		12/18/11 00:15	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		12/18/11 00:15	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/18/11 00:15	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/18/11 00:15	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/18/11 00:15	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/18/11 00:15	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/18/11 00:15	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		12/18/11 00:15	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		12/18/11 00:15	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		12/18/11 00:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/18/11 00:15	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		12/18/11 00:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/18/11 00:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/18/11 00:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/18/11 00:15	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		12/18/11 00:15	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		12/18/11 00:15	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/18/11 00:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/18/11 00:15	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/18/11 00:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		12/18/11 00:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/18/11 00:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/18/11 00:15	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		12/18/11 00:15	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		12/18/11 00:15	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		12/18/11 00:15	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/18/11 00:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/18/11 00:15	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/18/11 00:15	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		12/18/11 00:15	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/18/11 00:15	87-68-3	
n-Hexane	ND	ug/L	5.0	1		12/18/11 00:15	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		12/18/11 00:15	591-78-6	
Iodomethane	ND	ug/L	10.0	1		12/18/11 00:15	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		12/18/11 00:15	98-82-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055610

Sample: GP20:39 **Lab ID: 5055610008** Collected: 12/07/11 11:00 Received: 12/08/11 11:22 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		12/18/11 00:15	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		12/18/11 00:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		12/18/11 00:15	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		12/18/11 00:15	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/18/11 00:15	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		12/18/11 00:15	103-65-1	
Styrene	ND	ug/L	5.0	1		12/18/11 00:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		12/18/11 00:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/18/11 00:15	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/18/11 00:15	127-18-4	
Toluene	ND	ug/L	5.0	1		12/18/11 00:15	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		12/18/11 00:15	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		12/18/11 00:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/18/11 00:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/18/11 00:15	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/18/11 00:15	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/18/11 00:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		12/18/11 00:15	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		12/18/11 00:15	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		12/18/11 00:15	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		12/18/11 00:15	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		12/18/11 00:15	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/18/11 00:15	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	110	%.	83-123	1		12/18/11 00:15	1868-53-7	H1,HS, p2
4-Bromofluorobenzene (S)	100	%.	72-125	1		12/18/11 00:15	460-00-4	
Toluene-d8 (S)	102	%.	81-114	1		12/18/11 00:15	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055610

Sample: GP20:30 **Lab ID: 5055610009** Collected: 12/07/11 11:15 Received: 12/08/11 11:22 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		12/18/11 01:59	67-64-1	
Acrolein	ND	ug/L	50.0	1		12/18/11 01:59	107-02-8	
Acrylonitrile	ND	ug/L	100	1		12/18/11 01:59	107-13-1	
Benzene	ND	ug/L	5.0	1		12/18/11 01:59	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		12/18/11 01:59	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		12/18/11 01:59	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		12/18/11 01:59	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/18/11 01:59	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/18/11 01:59	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		12/18/11 01:59	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		12/18/11 01:59	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		12/18/11 01:59	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		12/18/11 01:59	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		12/18/11 01:59	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/18/11 01:59	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/18/11 01:59	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/18/11 01:59	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/18/11 01:59	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/18/11 01:59	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		12/18/11 01:59	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		12/18/11 01:59	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		12/18/11 01:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/18/11 01:59	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		12/18/11 01:59	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/18/11 01:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/18/11 01:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/18/11 01:59	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		12/18/11 01:59	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		12/18/11 01:59	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/18/11 01:59	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/18/11 01:59	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/18/11 01:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		12/18/11 01:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/18/11 01:59	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/18/11 01:59	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		12/18/11 01:59	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		12/18/11 01:59	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		12/18/11 01:59	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/18/11 01:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/18/11 01:59	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/18/11 01:59	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		12/18/11 01:59	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/18/11 01:59	87-68-3	
n-Hexane	ND	ug/L	5.0	1		12/18/11 01:59	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		12/18/11 01:59	591-78-6	
Iodomethane	ND	ug/L	10.0	1		12/18/11 01:59	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		12/18/11 01:59	98-82-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055610

Sample: GP20:30 **Lab ID: 5055610009** Collected: 12/07/11 11:15 Received: 12/08/11 11:22 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		12/18/11 01:59	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		12/18/11 01:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		12/18/11 01:59	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		12/18/11 01:59	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/18/11 01:59	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		12/18/11 01:59	103-65-1	
Styrene	ND	ug/L	5.0	1		12/18/11 01:59	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		12/18/11 01:59	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/18/11 01:59	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/18/11 01:59	127-18-4	
Toluene	ND	ug/L	5.0	1		12/18/11 01:59	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		12/18/11 01:59	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		12/18/11 01:59	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/18/11 01:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/18/11 01:59	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/18/11 01:59	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/18/11 01:59	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		12/18/11 01:59	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		12/18/11 01:59	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		12/18/11 01:59	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		12/18/11 01:59	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		12/18/11 01:59	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/18/11 01:59	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	83-123	1		12/18/11 01:59	1868-53-7	H1,HS, p2
4-Bromofluorobenzene (S)	104	%.	72-125	1		12/18/11 01:59	460-00-4	
Toluene-d8 (S)	103	%.	81-114	1		12/18/11 01:59	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055610

Sample: GP21:38 **Lab ID: 5055610010** Collected: 12/07/11 14:49 Received: 12/08/11 11:22 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		12/18/11 02:36	67-64-1	
Acrolein	ND	ug/L	50.0	1		12/18/11 02:36	107-02-8	
Acrylonitrile	ND	ug/L	100	1		12/18/11 02:36	107-13-1	
Benzene	ND	ug/L	5.0	1		12/18/11 02:36	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		12/18/11 02:36	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		12/18/11 02:36	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		12/18/11 02:36	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/18/11 02:36	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/18/11 02:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		12/18/11 02:36	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		12/18/11 02:36	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		12/18/11 02:36	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		12/18/11 02:36	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		12/18/11 02:36	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/18/11 02:36	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/18/11 02:36	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/18/11 02:36	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/18/11 02:36	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/18/11 02:36	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		12/18/11 02:36	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		12/18/11 02:36	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		12/18/11 02:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/18/11 02:36	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		12/18/11 02:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/18/11 02:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/18/11 02:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/18/11 02:36	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		12/18/11 02:36	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		12/18/11 02:36	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/18/11 02:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/18/11 02:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/18/11 02:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		12/18/11 02:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/18/11 02:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/18/11 02:36	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		12/18/11 02:36	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		12/18/11 02:36	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		12/18/11 02:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/18/11 02:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/18/11 02:36	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/18/11 02:36	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		12/18/11 02:36	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/18/11 02:36	87-68-3	
n-Hexane	ND	ug/L	5.0	1		12/18/11 02:36	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		12/18/11 02:36	591-78-6	
Iodomethane	ND	ug/L	10.0	1		12/18/11 02:36	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		12/18/11 02:36	98-82-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055610

Sample: GP21:38 **Lab ID: 5055610010** Collected: 12/07/11 14:49 Received: 12/08/11 11:22 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		12/18/11 02:36	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		12/18/11 02:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		12/18/11 02:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		12/18/11 02:36	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/18/11 02:36	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		12/18/11 02:36	103-65-1	
Styrene	ND	ug/L	5.0	1		12/18/11 02:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		12/18/11 02:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/18/11 02:36	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/18/11 02:36	127-18-4	
Toluene	ND	ug/L	5.0	1		12/18/11 02:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		12/18/11 02:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		12/18/11 02:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/18/11 02:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/18/11 02:36	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/18/11 02:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/18/11 02:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		12/18/11 02:36	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		12/18/11 02:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		12/18/11 02:36	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		12/18/11 02:36	108-05-4	
Vinyl chloride	**2.8**	ug/L	2.0	1		12/18/11 02:36	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/18/11 02:36	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%.	83-123	1		12/18/11 02:36	1868-53-7	H1,HS, p2
4-Bromofluorobenzene (S)	103	%.	72-125	1		12/18/11 02:36	460-00-4	
Toluene-d8 (S)	103	%.	81-114	1		12/18/11 02:36	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055610

Sample: GP21:28 **Lab ID: 5055610011** Collected: 12/07/11 15:05 Received: 12/08/11 11:22 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		12/18/11 03:09	67-64-1	
Acrolein	ND	ug/L	50.0	1		12/18/11 03:09	107-02-8	
Acrylonitrile	ND	ug/L	100	1		12/18/11 03:09	107-13-1	
Benzene	ND	ug/L	5.0	1		12/18/11 03:09	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		12/18/11 03:09	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		12/18/11 03:09	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		12/18/11 03:09	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/18/11 03:09	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/18/11 03:09	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		12/18/11 03:09	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		12/18/11 03:09	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		12/18/11 03:09	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		12/18/11 03:09	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		12/18/11 03:09	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/18/11 03:09	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/18/11 03:09	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/18/11 03:09	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/18/11 03:09	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/18/11 03:09	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		12/18/11 03:09	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		12/18/11 03:09	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		12/18/11 03:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/18/11 03:09	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		12/18/11 03:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/18/11 03:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/18/11 03:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/18/11 03:09	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		12/18/11 03:09	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		12/18/11 03:09	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/18/11 03:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/18/11 03:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/18/11 03:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		12/18/11 03:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/18/11 03:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/18/11 03:09	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		12/18/11 03:09	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		12/18/11 03:09	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		12/18/11 03:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/18/11 03:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/18/11 03:09	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/18/11 03:09	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		12/18/11 03:09	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/18/11 03:09	87-68-3	
n-Hexane	ND	ug/L	5.0	1		12/18/11 03:09	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		12/18/11 03:09	591-78-6	
Iodomethane	ND	ug/L	10.0	1		12/18/11 03:09	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		12/18/11 03:09	98-82-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055610

Sample: GP21:28 **Lab ID: 5055610011** Collected: 12/07/11 15:05 Received: 12/08/11 11:22 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		12/18/11 03:09	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		12/18/11 03:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		12/18/11 03:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		12/18/11 03:09	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/18/11 03:09	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		12/18/11 03:09	103-65-1	
Styrene	ND	ug/L	5.0	1		12/18/11 03:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		12/18/11 03:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/18/11 03:09	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/18/11 03:09	127-18-4	
Toluene	ND	ug/L	5.0	1		12/18/11 03:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		12/18/11 03:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		12/18/11 03:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/18/11 03:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/18/11 03:09	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/18/11 03:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/18/11 03:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		12/18/11 03:09	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		12/18/11 03:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		12/18/11 03:09	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		12/18/11 03:09	108-05-4	
Vinyl chloride	**4.9**	ug/L	2.0	1		12/18/11 03:09	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/18/11 03:09	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%.	83-123	1		12/18/11 03:09	1868-53-7	H1,HS, p2
4-Bromofluorobenzene (S)	95	%.	72-125	1		12/18/11 03:09	460-00-4	
Toluene-d8 (S)	99	%.	81-114	1		12/18/11 03:09	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055610

Sample: WFD-1 **Lab ID: 5055610012** Collected: 12/07/11 08:00 Received: 12/08/11 11:22 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		12/18/11 03:45	67-64-1	
Acrolein	ND	ug/L	50.0	1		12/18/11 03:45	107-02-8	
Acrylonitrile	ND	ug/L	100	1		12/18/11 03:45	107-13-1	
Benzene	ND	ug/L	5.0	1		12/18/11 03:45	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		12/18/11 03:45	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		12/18/11 03:45	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		12/18/11 03:45	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/18/11 03:45	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/18/11 03:45	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		12/18/11 03:45	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		12/18/11 03:45	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		12/18/11 03:45	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		12/18/11 03:45	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		12/18/11 03:45	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/18/11 03:45	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/18/11 03:45	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/18/11 03:45	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/18/11 03:45	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/18/11 03:45	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		12/18/11 03:45	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		12/18/11 03:45	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		12/18/11 03:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/18/11 03:45	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		12/18/11 03:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/18/11 03:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/18/11 03:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/18/11 03:45	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		12/18/11 03:45	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		12/18/11 03:45	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/18/11 03:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/18/11 03:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/18/11 03:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		12/18/11 03:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/18/11 03:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/18/11 03:45	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		12/18/11 03:45	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		12/18/11 03:45	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		12/18/11 03:45	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/18/11 03:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/18/11 03:45	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/18/11 03:45	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		12/18/11 03:45	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/18/11 03:45	87-68-3	
n-Hexane	ND	ug/L	5.0	1		12/18/11 03:45	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		12/18/11 03:45	591-78-6	
Iodomethane	ND	ug/L	10.0	1		12/18/11 03:45	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		12/18/11 03:45	98-82-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055610

Sample: WFD-1 **Lab ID: 5055610012** Collected: 12/07/11 08:00 Received: 12/08/11 11:22 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		12/18/11 03:45	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		12/18/11 03:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		12/18/11 03:45	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		12/18/11 03:45	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/18/11 03:45	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		12/18/11 03:45	103-65-1	
Styrene	ND	ug/L	5.0	1		12/18/11 03:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		12/18/11 03:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/18/11 03:45	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/18/11 03:45	127-18-4	
Toluene	ND	ug/L	5.0	1		12/18/11 03:45	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		12/18/11 03:45	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		12/18/11 03:45	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/18/11 03:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/18/11 03:45	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/18/11 03:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/18/11 03:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		12/18/11 03:45	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		12/18/11 03:45	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		12/18/11 03:45	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		12/18/11 03:45	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		12/18/11 03:45	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/18/11 03:45	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	83-123	1		12/18/11 03:45	1868-53-7	H1,HS, p2
4-Bromofluorobenzene (S)	97	%.	72-125	1		12/18/11 03:45	460-00-4	
Toluene-d8 (S)	105	%.	81-114	1		12/18/11 03:45	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055610

Sample: Trip Blank **Lab ID: 5055610013** Collected: 12/07/11 08:00 Received: 12/08/11 11:22 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		12/18/11 04:19	67-64-1	
Acrolein	ND	ug/L	50.0	1		12/18/11 04:19	107-02-8	
Acrylonitrile	ND	ug/L	100	1		12/18/11 04:19	107-13-1	
Benzene	ND	ug/L	5.0	1		12/18/11 04:19	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		12/18/11 04:19	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		12/18/11 04:19	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		12/18/11 04:19	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/18/11 04:19	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/18/11 04:19	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		12/18/11 04:19	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		12/18/11 04:19	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		12/18/11 04:19	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		12/18/11 04:19	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		12/18/11 04:19	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/18/11 04:19	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/18/11 04:19	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/18/11 04:19	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/18/11 04:19	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/18/11 04:19	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		12/18/11 04:19	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		12/18/11 04:19	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		12/18/11 04:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/18/11 04:19	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		12/18/11 04:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/18/11 04:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/18/11 04:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/18/11 04:19	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		12/18/11 04:19	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		12/18/11 04:19	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/18/11 04:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/18/11 04:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/18/11 04:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		12/18/11 04:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/18/11 04:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/18/11 04:19	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		12/18/11 04:19	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		12/18/11 04:19	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		12/18/11 04:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/18/11 04:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/18/11 04:19	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/18/11 04:19	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		12/18/11 04:19	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/18/11 04:19	87-68-3	
n-Hexane	ND	ug/L	5.0	1		12/18/11 04:19	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		12/18/11 04:19	591-78-6	
Iodomethane	ND	ug/L	10.0	1		12/18/11 04:19	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		12/18/11 04:19	98-82-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055610

Sample: Trip Blank **Lab ID: 5055610013** Collected: 12/07/11 08:00 Received: 12/08/11 11:22 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		12/18/11 04:19	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		12/18/11 04:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		12/18/11 04:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		12/18/11 04:19	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/18/11 04:19	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		12/18/11 04:19	103-65-1	
Styrene	ND	ug/L	5.0	1		12/18/11 04:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		12/18/11 04:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/18/11 04:19	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/18/11 04:19	127-18-4	
Toluene	ND	ug/L	5.0	1		12/18/11 04:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		12/18/11 04:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		12/18/11 04:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/18/11 04:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/18/11 04:19	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/18/11 04:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/18/11 04:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		12/18/11 04:19	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		12/18/11 04:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		12/18/11 04:19	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		12/18/11 04:19	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		12/18/11 04:19	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/18/11 04:19	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%.	83-123	1		12/18/11 04:19	1868-53-7	H1,HS, p2
4-Bromofluorobenzene (S)	103	%.	72-125	1		12/18/11 04:19	460-00-4	
Toluene-d8 (S)	105	%.	81-114	1		12/18/11 04:19	2037-26-5	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055610

QC Batch: MSV/38196 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5055610008, 5055610009, 5055610010, 5055610011, 5055610012, 5055610013

METHOD BLANK: 663388 Matrix: Water
Associated Lab Samples: 5055610008, 5055610009, 5055610010, 5055610011, 5055610012, 5055610013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	12/17/11 19:34	
1,1,1-Trichloroethane	ug/L	ND	5.0	12/17/11 19:34	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	12/17/11 19:34	
1,1,2-Trichloroethane	ug/L	ND	5.0	12/17/11 19:34	
1,1-Dichloroethane	ug/L	ND	5.0	12/17/11 19:34	
1,1-Dichloroethene	ug/L	ND	5.0	12/17/11 19:34	
1,1-Dichloropropene	ug/L	ND	5.0	12/17/11 19:34	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	12/17/11 19:34	
1,2,3-Trichloropropane	ug/L	ND	5.0	12/17/11 19:34	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	12/17/11 19:34	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	12/17/11 19:34	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	12/17/11 19:34	
1,2-Dichlorobenzene	ug/L	ND	5.0	12/17/11 19:34	
1,2-Dichloroethane	ug/L	ND	5.0	12/17/11 19:34	
1,2-Dichloropropane	ug/L	ND	5.0	12/17/11 19:34	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	12/17/11 19:34	
1,3-Dichlorobenzene	ug/L	ND	5.0	12/17/11 19:34	
1,3-Dichloropropane	ug/L	ND	5.0	12/17/11 19:34	
1,4-Dichlorobenzene	ug/L	ND	5.0	12/17/11 19:34	
2,2-Dichloropropane	ug/L	ND	5.0	12/17/11 19:34	
2-Butanone (MEK)	ug/L	ND	25.0	12/17/11 19:34	
2-Chlorotoluene	ug/L	ND	5.0	12/17/11 19:34	
2-Hexanone	ug/L	ND	25.0	12/17/11 19:34	
4-Chlorotoluene	ug/L	ND	5.0	12/17/11 19:34	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	12/17/11 19:34	
Acetone	ug/L	ND	100	12/17/11 19:34	
Acrolein	ug/L	ND	50.0	12/17/11 19:34	
Acrylonitrile	ug/L	ND	100	12/17/11 19:34	
Benzene	ug/L	ND	5.0	12/17/11 19:34	
Bromobenzene	ug/L	ND	5.0	12/17/11 19:34	
Bromochloromethane	ug/L	ND	5.0	12/17/11 19:34	
Bromodichloromethane	ug/L	ND	5.0	12/17/11 19:34	
Bromoform	ug/L	ND	5.0	12/17/11 19:34	
Bromomethane	ug/L	ND	5.0	12/17/11 19:34	
Carbon disulfide	ug/L	ND	10.0	12/17/11 19:34	
Carbon tetrachloride	ug/L	ND	5.0	12/17/11 19:34	
Chlorobenzene	ug/L	ND	5.0	12/17/11 19:34	
Chloroethane	ug/L	ND	5.0	12/17/11 19:34	
Chloroform	ug/L	ND	5.0	12/17/11 19:34	
Chloromethane	ug/L	ND	5.0	12/17/11 19:34	
cis-1,2-Dichloroethene	ug/L	ND	5.0	12/17/11 19:34	
cis-1,3-Dichloropropene	ug/L	ND	5.0	12/17/11 19:34	
Dibromochloromethane	ug/L	ND	5.0	12/17/11 19:34	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055610

METHOD BLANK: 663388 Matrix: Water

Associated Lab Samples: 5055610008, 5055610009, 5055610010, 5055610011, 5055610012, 5055610013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	5.0	12/17/11 19:34	
Dichlorodifluoromethane	ug/L	ND	5.0	12/17/11 19:34	
Ethyl methacrylate	ug/L	ND	100	12/17/11 19:34	
Ethylbenzene	ug/L	ND	5.0	12/17/11 19:34	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	12/17/11 19:34	
Iodomethane	ug/L	ND	10.0	12/17/11 19:34	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	12/17/11 19:34	
Methyl-tert-butyl ether	ug/L	ND	4.0	12/17/11 19:34	
Methylene Chloride	ug/L	ND	5.0	12/17/11 19:34	
n-Butylbenzene	ug/L	ND	5.0	12/17/11 19:34	
n-Hexane	ug/L	ND	5.0	12/17/11 19:34	N2
n-Propylbenzene	ug/L	ND	5.0	12/17/11 19:34	
Naphthalene	ug/L	ND	5.0	12/17/11 19:34	
p-Isopropyltoluene	ug/L	ND	5.0	12/17/11 19:34	
sec-Butylbenzene	ug/L	ND	5.0	12/17/11 19:34	
Styrene	ug/L	ND	5.0	12/17/11 19:34	
tert-Butylbenzene	ug/L	ND	5.0	12/17/11 19:34	
Tetrachloroethene	ug/L	ND	5.0	12/17/11 19:34	
Toluene	ug/L	ND	5.0	12/17/11 19:34	
trans-1,2-Dichloroethene	ug/L	ND	5.0	12/17/11 19:34	
trans-1,3-Dichloropropene	ug/L	ND	5.0	12/17/11 19:34	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	12/17/11 19:34	
Trichloroethene	ug/L	ND	5.0	12/17/11 19:34	
Trichlorofluoromethane	ug/L	ND	5.0	12/17/11 19:34	
Vinyl acetate	ug/L	ND	50.0	12/17/11 19:34	
Vinyl chloride	ug/L	ND	2.0	12/17/11 19:34	
Xylene (Total)	ug/L	ND	10.0	12/17/11 19:34	
4-Bromofluorobenzene (S)	%.	103	72-125	12/17/11 19:34	
Dibromofluoromethane (S)	%.	101	83-123	12/17/11 19:34	
Toluene-d8 (S)	%.	101	81-114	12/17/11 19:34	

LABORATORY CONTROL SAMPLE: 663389

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	46.1	92	69-122	
1,1,1-Trichloroethane	ug/L	50	48.7	97	69-126	
1,1,2,2-Tetrachloroethane	ug/L	50	52.2	104	68-134	
1,1,2-Trichloroethane	ug/L	50	46.9	94	77-129	
1,1-Dichloroethane	ug/L	50	53.6	107	70-127	
1,1-Dichloroethene	ug/L	50	56.0	112	75-145	
1,1-Dichloropropene	ug/L	50	47.8	96	75-126	
1,2,3-Trichlorobenzene	ug/L	50	48.9	98	63-130	
1,2,3-Trichloropropane	ug/L	50	88.3	177	45-121	L3
1,2,4-Trichlorobenzene	ug/L	50	55.0	110	64-122	
1,2,4-Trimethylbenzene	ug/L	50	55.2	110	68-129	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055610

LABORATORY CONTROL SAMPLE: 663389

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	50	43.9	88	77-123	
1,2-Dichlorobenzene	ug/L	50	54.5	109	74-123	
1,2-Dichloroethane	ug/L	50	47.9	96	71-127	
1,2-Dichloropropane	ug/L	50	44.6	89	75-126	
1,3,5-Trimethylbenzene	ug/L	50	50.8	102	69-129	
1,3-Dichlorobenzene	ug/L	50	56.0	112	76-123	
1,3-Dichloropropane	ug/L	50	43.3	87	77-126	
1,4-Dichlorobenzene	ug/L	50	47.7	95	77-121	
2,2-Dichloropropane	ug/L	50	54.3	109	45-138	
2-Butanone (MEK)	ug/L	250	218	87	42-177	
2-Chlorotoluene	ug/L	50	55.3	111	74-129	
2-Hexanone	ug/L	250	186	75	57-162	
4-Chlorotoluene	ug/L	50	49.8	100	70-125	
4-Methyl-2-pentanone (MIBK)	ug/L	250	259	103	64-135	
Acetone	ug/L	250	171	68	10-200	
Acrolein	ug/L	1000	2110	211	10-200	L3
Acrylonitrile	ug/L	1000	1190	119	59-144	
Benzene	ug/L	50	51.0	102	76-123	
Bromobenzene	ug/L	50	50.8	102	67-130	
Bromochloromethane	ug/L	50	60.9	122	58-153	
Bromodichloromethane	ug/L	50	44.5	89	71-124	
Bromoform	ug/L	50	35.8	72	64-116	
Bromomethane	ug/L	50	48.3	97	23-197	
Carbon disulfide	ug/L	100	112	112	55-146	
Carbon tetrachloride	ug/L	50	45.1	90	65-125	
Chlorobenzene	ug/L	50	44.3	89	78-120	
Chloroethane	ug/L	50	57.3	115	56-163	
Chloroform	ug/L	50	53.9	108	73-122	
Chloromethane	ug/L	50	47.3	95	46-146	
cis-1,2-Dichloroethene	ug/L	50	50.8	102	79-129	
cis-1,3-Dichloropropene	ug/L	50	43.0	86	66-123	
Dibromochloromethane	ug/L	50	41.1	82	70-123	
Dibromomethane	ug/L	50	47.7	95	73-123	
Dichlorodifluoromethane	ug/L	50	47.8	96	19-200	
Ethyl methacrylate	ug/L	200	173	87	70-127	
Ethylbenzene	ug/L	50	48.8	98	75-120	
Hexachloro-1,3-butadiene	ug/L	50	47.1	94	64-131	
Iodomethane	ug/L	100	106	106	16-181	
Isopropylbenzene (Cumene)	ug/L	50	51.4	103	73-123	
Methyl-tert-butyl ether	ug/L	100	116	116	66-128	
Methylene Chloride	ug/L	50	51.0	102	61-138	
n-Butylbenzene	ug/L	50	53.8	108	69-130	
n-Hexane	ug/L	50	45.9	92	67-142	N2
n-Propylbenzene	ug/L	50	53.3	107	71-132	
Naphthalene	ug/L	50	47.9	96	62-130	
p-Isopropyltoluene	ug/L	50	58.6	117	71-126	
sec-Butylbenzene	ug/L	50	51.8	104	69-130	
Styrene	ug/L	50	43.6	87	75-125	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055610

LABORATORY CONTROL SAMPLE: 663389

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	42.3	85	49-114	
Tetrachloroethene	ug/L	50	39.0	78	57-125	
Toluene	ug/L	50	48.9	98	72-124	
trans-1,2-Dichloroethene	ug/L	50	53.1	106	71-145	
trans-1,3-Dichloropropene	ug/L	50	42.7	85	58-118	
trans-1,4-Dichloro-2-butene	ug/L	200	192	96	50-121	
Trichloroethene	ug/L	50	46.1	92	77-122	
Trichlorofluoromethane	ug/L	50	51.0	102	56-159	
Vinyl acetate	ug/L	200	216	108	27-119	
Vinyl chloride	ug/L	50	50.0	100	61-146	
Xylene (Total)	ug/L	150	135	90	72-126	
4-Bromofluorobenzene (S)	%.			95	72-125	
Dibromofluoromethane (S)	%.			107	83-123	
Toluene-d8 (S)	%.			96	81-114	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 663390 663391

Parameter	Units	5055610008 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/L	ND	50	50	45.0	37.8	90	76	30-122	17	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	48.1	46.7	96	93	37-136	3	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	50.6	35.0	101	70	47-132	36	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	46.8	41.7	94	83	53-131	12	20	
1,1-Dichloroethane	ug/L	ND	50	50	54.9	54.8	110	110	47-138	.2	20	
1,1-Dichloroethene	ug/L	ND	50	50	55.6	56.5	111	113	54-152	2	20	
1,1-Dichloropropene	ug/L	ND	50	50	45.4	38.0	91	76	47-136	18	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	41.7	8.1	83	16	15-132	135	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	66.4	40.4	133	81	24-108	49	20	M0
1,2,4-Trichlorobenzene	ug/L	ND	50	50	43.4	ND	87	5	10-130		20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	43.2	20.2	86	40	10-141	73	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	44.4	36.0	89	72	49-130	21	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	46.9	13.5	94	27	20-137	111	20	
1,2-Dichloroethane	ug/L	ND	50	50	48.2	48.0	96	96	42-139	.4	20	
1,2-Dichloropropane	ug/L	ND	50	50	46.7	41.3	93	83	50-131	12	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	38.9	20.2	78	40	10-145	63	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	43.8	11.6	88	23	13-143	116	20	
1,3-Dichloropropane	ug/L	ND	50	50	47.0	38.3	94	77	53-130	21	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	38.1	14.0	76	28	13-140	92	20	
2,2-Dichloropropane	ug/L	ND	50	50	51.3	50.6	103	101	13-142	1	20	
2-Butanone (MEK)	ug/L	ND	250	250	153	146	61	59	43-142	5	20	
2-Chlorotoluene	ug/L	ND	50	50	44.7	17.8	89	36	15-145	86	20	
2-Hexanone	ug/L	ND	250	250	151	137	60	55	46-139	10	20	
4-Chlorotoluene	ug/L	ND	50	50	38.4	17.9	77	36	12-143	73	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	265	259	106	104	43-140	2	20	
Acetone	ug/L	ND	250	250	79.8J	76.9J	32	31	38-155		20	M0
Acrolein	ug/L	ND	1000	1000	2230	2250	223	225	11-200	1	20	M0
Acrylonitrile	ug/L	ND	1000	1000	1580	1570	158	157	42-150	.7	20	M0

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055610

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 663390 663391

Parameter	Units	5055610008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	50	50	50.6	46.6	101	93	52-134	8	20	
Bromobenzene	ug/L	ND	50	50	45.6	19.9	91	40	25-140	78	20	
Bromochloromethane	ug/L	ND	50	50	60.2	60.1	120	120	54-144	.2	20	
Bromodichloromethane	ug/L	ND	50	50	46.4	34.0	93	68	42-128	31	20	
Bromoform	ug/L	ND	50	50	32.7	20.0	65	40	34-116	48	20	
Bromomethane	ug/L	ND	50	50	31.9	41.7	64	83	10-200	27	20	
Carbon disulfide	ug/L	ND	100	100	123	114	123	114	43-144	8	20	
Carbon tetrachloride	ug/L	ND	50	50	43.9	37.9	88	76	26-136	15	20	
Chlorobenzene	ug/L	ND	50	50	42.4	27.1	85	54	33-136	44	20	
Chloroethane	ug/L	ND	50	50	66.3	62.6	133	125	21-200	6	20	
Chloroform	ug/L	ND	50	50	53.7	51.7	107	103	50-134	4	20	
Chloromethane	ug/L	ND	50	50	44.7	48.2	89	96	32-160	8	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	53.1	49.0	106	98	48-145	8	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	43.4	34.6	87	69	35-116	23	20	
Dibromochloromethane	ug/L	ND	50	50	39.8	28.7	80	57	39-122	32	20	
Dibromomethane	ug/L	ND	50	50	48.7	43.9	97	88	49-134	10	20	
Dichlorodifluoromethane	ug/L	ND	50	50	45.1	46.8	90	94	35-200	4	20	
Ethyl methacrylate	ug/L	ND	200	200	187	155	93	78	54-123	18	20	
Ethylbenzene	ug/L	ND	50	50	42.3	28.9	85	58	29-132	38	20	
Hexachloro-1,3-butadiene	ug/L	ND	50	50	32.5	12.0	65	24	10-146	92	20	
Iodomethane	ug/L	ND	100	100	54.0	69.3	54	69	10-171	25	20	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	42.6	27.0	85	54	11-146	45	20	
Methyl-tert-butyl ether	ug/L	ND	100	100	134	137	134	137	39-137	2	20	
Methylene Chloride	ug/L	ND	50	50	52.5	52.4	105	105	47-141	.3	20	
n-Butylbenzene	ug/L	ND	50	50	35.8	11.7	72	23	10-156	101	20	
n-Hexane	ug/L	ND	50	50	46.9	34.9	94	70	51-137	29	20	N2
n-Propylbenzene	ug/L	ND	50	50	37.7	18.1	75	36	10-148	70	20	
Naphthalene	ug/L	ND	50	50	45.7	12.9	91	26	40-124	112	20	
p-Isopropyltoluene	ug/L	ND	50	50	41.0	15.6	82	31	10-150	90	20	
sec-Butylbenzene	ug/L	ND	50	50	38.1	19.0	76	38	10-150	67	20	
Styrene	ug/L	ND	50	50	40.7	23.8	81	48	20-143	52	20	
tert-Butylbenzene	ug/L	ND	50	50	32.9	17.8	66	36	10-123	60	20	
Tetrachloroethene	ug/L	ND	50	50	36.3	27.9	73	56	30-124	26	20	
Toluene	ug/L	ND	50	50	46.1	37.4	92	75	42-130	21	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	58.4	57.2	117	114	48-144	2	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	42.2	30.6	84	61	24-114	32	20	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	144	88.5J	72	44	22-120		20	
Trichloroethene	ug/L	ND	50	50	45.0	35.8	90	72	44-130	23	20	
Trichlorofluoromethane	ug/L	ND	50	50	53.0	53.6	106	107	17-200	1	20	
Vinyl acetate	ug/L	ND	200	200	225	218	113	109	10-115	3	20	
Vinyl chloride	ug/L	ND	50	50	45.4	50.2	91	100	45-159	10	20	
Xylene (Total)	ug/L	ND	150	150	127	83.0	85	55	29-131	42	20	
4-Bromofluorobenzene (S)	%.						97	98	72-125		20	
Dibromofluoromethane (S)	%.						104	105	83-123		20	1d,2d
Toluene-d8 (S)	%.						97	100	81-114		20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055610

QC Batch: MSV/38194
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 5055610001, 5055610002

METHOD BLANK: 663374
Matrix: Solid
Associated Lab Samples: 5055610001, 5055610002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	12/17/11 19:18	
1,1,1-Trichloroethane	ug/kg	ND	5.0	12/17/11 19:18	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	12/17/11 19:18	
1,1,2-Trichloroethane	ug/kg	ND	5.0	12/17/11 19:18	
1,1-Dichloroethane	ug/kg	ND	5.0	12/17/11 19:18	
1,1-Dichloroethene	ug/kg	ND	5.0	12/17/11 19:18	
1,1-Dichloropropene	ug/kg	ND	5.0	12/17/11 19:18	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	12/17/11 19:18	
1,2,3-Trichloropropane	ug/kg	ND	5.0	12/17/11 19:18	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	12/17/11 19:18	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	12/17/11 19:18	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	12/17/11 19:18	
1,2-Dichlorobenzene	ug/kg	ND	5.0	12/17/11 19:18	
1,2-Dichloroethane	ug/kg	ND	5.0	12/17/11 19:18	
1,2-Dichloropropane	ug/kg	ND	5.0	12/17/11 19:18	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	12/17/11 19:18	
1,3-Dichlorobenzene	ug/kg	ND	5.0	12/17/11 19:18	
1,3-Dichloropropane	ug/kg	ND	5.0	12/17/11 19:18	
1,4-Dichlorobenzene	ug/kg	ND	5.0	12/17/11 19:18	
2,2-Dichloropropane	ug/kg	ND	5.0	12/17/11 19:18	
2-Butanone (MEK)	ug/kg	ND	25.0	12/17/11 19:18	
2-Chlorotoluene	ug/kg	ND	5.0	12/17/11 19:18	
2-Hexanone	ug/kg	ND	100	12/17/11 19:18	
4-Chlorotoluene	ug/kg	ND	5.0	12/17/11 19:18	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	12/17/11 19:18	
Acetone	ug/kg	ND	100	12/17/11 19:18	
Acrolein	ug/kg	ND	100	12/17/11 19:18	
Acrylonitrile	ug/kg	ND	100	12/17/11 19:18	
Benzene	ug/kg	ND	5.0	12/17/11 19:18	
Bromobenzene	ug/kg	ND	5.0	12/17/11 19:18	
Bromochloromethane	ug/kg	ND	5.0	12/17/11 19:18	
Bromodichloromethane	ug/kg	ND	5.0	12/17/11 19:18	
Bromoform	ug/kg	ND	5.0	12/17/11 19:18	
Bromomethane	ug/kg	ND	5.0	12/17/11 19:18	
Carbon disulfide	ug/kg	ND	10.0	12/17/11 19:18	
Carbon tetrachloride	ug/kg	ND	5.0	12/17/11 19:18	
Chlorobenzene	ug/kg	ND	5.0	12/17/11 19:18	
Chloroethane	ug/kg	ND	5.0	12/17/11 19:18	
Chloroform	ug/kg	ND	5.0	12/17/11 19:18	
Chloromethane	ug/kg	ND	5.0	12/17/11 19:18	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	12/17/11 19:18	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	12/17/11 19:18	
Dibromochloromethane	ug/kg	ND	5.0	12/17/11 19:18	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055610

METHOD BLANK: 663374 Matrix: Solid

Associated Lab Samples: 5055610001, 5055610002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	5.0	12/17/11 19:18	
Dichlorodifluoromethane	ug/kg	ND	5.0	12/17/11 19:18	
Ethyl methacrylate	ug/kg	ND	100	12/17/11 19:18	
Ethylbenzene	ug/kg	ND	5.0	12/17/11 19:18	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	12/17/11 19:18	
Iodomethane	ug/kg	ND	100	12/17/11 19:18	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	12/17/11 19:18	
Methyl-tert-butyl ether	ug/kg	ND	5.0	12/17/11 19:18	
Methylene Chloride	ug/kg	ND	20.0	12/17/11 19:18	
n-Butylbenzene	ug/kg	ND	5.0	12/17/11 19:18	
n-Hexane	ug/kg	ND	5.0	12/17/11 19:18	
n-Propylbenzene	ug/kg	ND	5.0	12/17/11 19:18	
Naphthalene	ug/kg	ND	5.0	12/17/11 19:18	
p-Isopropyltoluene	ug/kg	ND	5.0	12/17/11 19:18	
sec-Butylbenzene	ug/kg	ND	5.0	12/17/11 19:18	
Styrene	ug/kg	ND	5.0	12/17/11 19:18	
tert-Butylbenzene	ug/kg	ND	5.0	12/17/11 19:18	
Tetrachloroethene	ug/kg	ND	5.0	12/17/11 19:18	
Toluene	ug/kg	ND	5.0	12/17/11 19:18	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	12/17/11 19:18	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	12/17/11 19:18	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	12/17/11 19:18	
Trichloroethene	ug/kg	ND	5.0	12/17/11 19:18	
Trichlorofluoromethane	ug/kg	ND	5.0	12/17/11 19:18	
Vinyl acetate	ug/kg	ND	100	12/17/11 19:18	
Vinyl chloride	ug/kg	ND	5.0	12/17/11 19:18	
Xylene (Total)	ug/kg	ND	10.0	12/17/11 19:18	
4-Bromofluorobenzene (S)	%.	100	67-134	12/17/11 19:18	
Dibromofluoromethane (S)	%.	105	71-125	12/17/11 19:18	
Toluene-d8 (S)	%.	97	76-124	12/17/11 19:18	

LABORATORY CONTROL SAMPLE: 663375

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	47.4	95	70-130	
1,1,1-Trichloroethane	ug/kg	50	45.3	91	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	50	47.2	94	70-130	
1,1,2-Trichloroethane	ug/kg	50	48.3	97	70-130	
1,1-Dichloroethane	ug/kg	50	44.0	88	70-130	
1,1-Dichloroethene	ug/kg	50	44.4	89	70-130	
1,1-Dichloropropene	ug/kg	50	42.4	85	70-130	
1,2,3-Trichlorobenzene	ug/kg	50	45.1	90	70-130	
1,2,3-Trichloropropane	ug/kg	50	77.8	156	70-130	L3
1,2,4-Trichlorobenzene	ug/kg	50	46.6	93	70-130	
1,2,4-Trimethylbenzene	ug/kg	50	45.9	92	70-130	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055610

LABORATORY CONTROL SAMPLE: 663375

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/kg	50	45.0	90	70-130	
1,2-Dichlorobenzene	ug/kg	50	43.1	86	70-130	
1,2-Dichloroethane	ug/kg	50	45.3	91	70-130	
1,2-Dichloropropane	ug/kg	50	44.8	90	70-130	
1,3,5-Trimethylbenzene	ug/kg	50	42.2	84	70-130	
1,3-Dichlorobenzene	ug/kg	50	41.9	84	70-130	
1,3-Dichloropropane	ug/kg	50	44.5	89	70-130	
1,4-Dichlorobenzene	ug/kg	50	43.5	87	70-130	
2,2-Dichloropropane	ug/kg	50	46.0	92	40-160	
2-Butanone (MEK)	ug/kg	250	188	75	40-160	
2-Chlorotoluene	ug/kg	50	44.0	88	70-130	
2-Hexanone	ug/kg	250	171	69	40-160	
4-Chlorotoluene	ug/kg	50	43.6	87	70-130	
4-Methyl-2-pentanone (MIBK)	ug/kg	250	211	85	70-130	
Acetone	ug/kg	250	157	63	40-160	
Acrolein	ug/kg	1000	1430	143	40-160	
Acrylonitrile	ug/kg	1000	889	89	70-130	
Benzene	ug/kg	50	39.5	79	70-130	
Bromobenzene	ug/kg	50	59.0	118	70-130	
Bromochloromethane	ug/kg	50	43.9	88	70-130	
Bromodichloromethane	ug/kg	50	44.0	88	70-130	
Bromoform	ug/kg	50	30.2	60	70-130	L0
Bromomethane	ug/kg	50	51.7	103	40-160	
Carbon disulfide	ug/kg	100	90.6	91	40-160	
Carbon tetrachloride	ug/kg	50	40.9	82	70-130	
Chlorobenzene	ug/kg	50	43.2	86	70-130	
Chloroethane	ug/kg	50	48.1	96	70-130	
Chloroform	ug/kg	50	42.7	85	70-130	
Chloromethane	ug/kg	50	41.8	84	70-130	
cis-1,2-Dichloroethene	ug/kg	50	42.0	84	70-130	
cis-1,3-Dichloropropene	ug/kg	50	46.8	94	70-130	
Dibromochloromethane	ug/kg	50	37.4	75	70-130	
Dibromomethane	ug/kg	50	44.4	89	70-130	
Dichlorodifluoromethane	ug/kg	50	39.7	79	70-130	
Ethyl methacrylate	ug/kg	200	177	88	40-160	
Ethylbenzene	ug/kg	50	43.8	88	70-130	
Hexachloro-1,3-butadiene	ug/kg	50	41.8	84	70-130	
Iodomethane	ug/kg	100	91.2J	91	70-130	
Isopropylbenzene (Cumene)	ug/kg	50	44.1	88	70-130	
Methyl-tert-butyl ether	ug/kg	100	84.8	85	40-160	
Methylene Chloride	ug/kg	50	39.1	78	70-130	
n-Butylbenzene	ug/kg	50	45.5	91	70-130	
n-Hexane	ug/kg	50	30.9	62	70-130	L0
n-Propylbenzene	ug/kg	50	42.4	85	70-130	
Naphthalene	ug/kg	50	44.4	89	70-130	
p-Isopropyltoluene	ug/kg	50	43.1	86	70-130	
sec-Butylbenzene	ug/kg	50	41.1	82	70-130	
Styrene	ug/kg	50	40.7	81	70-130	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055610

LABORATORY CONTROL SAMPLE: 663375

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/kg	50	36.1	72	70-130	
Tetrachloroethene	ug/kg	50	35.8	72	70-130	
Toluene	ug/kg	50	40.4	81	70-130	
trans-1,2-Dichloroethene	ug/kg	50	41.0	82	70-130	
trans-1,3-Dichloropropene	ug/kg	50	44.9	90	70-130	
trans-1,4-Dichloro-2-butene	ug/kg	200	179	90	70-130	
Trichloroethene	ug/kg	50	40.7	81	70-130	
Trichlorofluoromethane	ug/kg	50	41.1	82	70-130	
Vinyl acetate	ug/kg	200	179	90	40-160	
Vinyl chloride	ug/kg	50	43.3	87	70-130	
Xylene (Total)	ug/kg	150	124	83	70-130	
4-Bromofluorobenzene (S)	%.			101	70-130	
Dibromofluoromethane (S)	%.			103	70-130	
Toluene-d8 (S)	%.			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 663376 663377

Parameter	Units	5055910002 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	42.8	49.9	33.3	37.8	78	76	10-111	12	20	
1,1,1-Trichloroethane	ug/kg	ND	42.8	49.9	43.4	43.7	102	88	36-128	.5	20	
1,1,2,2-Tetrachloroethane	ug/kg	ND	42.8	49.9	31.3	39.8	73	80	10-130	24	20	
1,1,2-Trichloroethane	ug/kg	ND	42.8	49.9	37.9	42.9	89	86	10-126	13	20	
1,1-Dichloroethane	ug/kg	ND	42.8	49.9	43.2	43.3	101	87	39-126	.1	20	
1,1-Dichloroethene	ug/kg	ND	42.8	49.9	42.6	41.9	100	84	42-147	2	20	
1,1-Dichloropropene	ug/kg	ND	42.8	49.9	36.4	38.1	85	77	29-129	5	20	
1,2,3-Trichlorobenzene	ug/kg	ND	42.8	49.9	13.1	20.0	31	40	10-91	41	20	
1,2,3-Trichloropropane	ug/kg	ND	42.8	49.9	45.1	59.7	106	120	10-99	28	20	M0
1,2,4-Trichlorobenzene	ug/kg	ND	42.8	49.9	13.6	19.5	32	39	10-88	36	20	
1,2,4-Trimethylbenzene	ug/kg	ND	42.8	49.9	20.5	27.3	48	55	10-109	28	20	
1,2-Dibromoethane (EDB)	ug/kg	ND	42.8	49.9	32.7	37.8	77	76	10-119	15	20	
1,2-Dichlorobenzene	ug/kg	ND	42.8	49.9	19.3	25.9	45	52	10-104	29	20	
1,2-Dichloroethane	ug/kg	ND	42.8	49.9	41.5	45.4	97	91	19-126	9	20	
1,2-Dichloropropane	ug/kg	ND	42.8	49.9	35.4	41.3	83	83	24-123	15	20	
1,3,5-Trimethylbenzene	ug/kg	ND	42.8	49.9	21.8	29.1	51	58	10-118	29	20	
1,3-Dichlorobenzene	ug/kg	ND	42.8	49.9	18.3	24.3	43	49	10-108	28	20	
1,3-Dichloropropane	ug/kg	ND	42.8	49.9	33.3	38.1	78	76	12-121	13	20	
1,4-Dichlorobenzene	ug/kg	ND	42.8	49.9	18.1	23.9	42	48	10-104	27	20	
2,2-Dichloropropane	ug/kg	ND	42.8	49.9	41.1	44.5	96	89	32-124	8	20	
2-Butanone (MEK)	ug/kg	ND	214	249	214	242	100	97	10-183	12	20	
2-Chlorotoluene	ug/kg	ND	42.8	49.9	21.6	27.9	51	56	10-128	25	20	
2-Hexanone	ug/kg	ND	214	249	166	193	78	77	10-158	15	20	
4-Chlorotoluene	ug/kg	ND	42.8	49.9	20.7	27.0	48	54	10-119	27	20	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	214	249	192	216	90	87	12-130	12	20	
Acetone	ug/kg	748	214	249	290	1050	-214	121	10-200	113	20	M0
Acrolein	ug/kg	ND	855	996	1400	1510	164	152	10-200	8	20	
Acrylonitrile	ug/kg	ND	855	996	864	940	101	94	19-130	8	20	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055610

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 663376 663377

Parameter	Units	5055910002 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	42.8	49.9	34.1	37.7	80	76	23-138	10	20	
Bromobenzene	ug/kg	ND	42.8	49.9	21.9	39.9	51	80	10-111	58	20	
Bromochloromethane	ug/kg	ND	42.8	49.9	40.2	43.9	94	88	26-126	9	20	
Bromodichloromethane	ug/kg	ND	42.8	49.9	32.8	38.0	77	76	10-120	15	20	
Bromoform	ug/kg	ND	42.8	49.9	18.7	23.4	44	47	10-106	22	20	
Bromomethane	ug/kg	ND	42.8	49.9	48.9	49.3	114	99	10-190	.8	20	
Carbon disulfide	ug/kg	ND	85.5	99.6	81.3	85.8	95	86	31-128	5	20	
Carbon tetrachloride	ug/kg	ND	42.8	49.9	37.6	38.5	88	77	26-126	2	20	
Chlorobenzene	ug/kg	ND	42.8	49.9	26.7	32.4	63	65	10-120	19	20	
Chloroethane	ug/kg	ND	42.8	49.9	47.9	50.9	112	102	18-186	6	20	
Chloroform	ug/kg	ND	42.8	49.9	37.7	42.3	88	85	29-126	12	20	
Chloromethane	ug/kg	ND	42.8	49.9	44.4	42.7	104	86	34-131	4	20	
cis-1,2-Dichloroethene	ug/kg	ND	42.8	49.9	38.4	42.2	89	84	28-132	9	20	
cis-1,3-Dichloropropene	ug/kg	ND	42.8	49.9	35.2	39.7	82	80	10-108	12	20	
Dibromochloromethane	ug/kg	ND	42.8	49.9	25.2	29.1	59	58	10-108	14	20	
Dibromomethane	ug/kg	ND	42.8	49.9	36.1	41.8	84	84	13-122	15	20	
Dichlorodifluoromethane	ug/kg	ND	42.8	49.9	42.6	42.5	100	85	10-197	.2	20	
Ethyl methacrylate	ug/kg	ND	171	199	136	156	79	78	10-130	14	20	
Ethylbenzene	ug/kg	ND	42.8	49.9	26.0	30.7	61	62	10-135	16	20	
Hexachloro-1,3-butadiene	ug/kg	ND	42.8	49.9	13.6	20.9	32	42	10-105	42	20	
Iodomethane	ug/kg	ND	85.5	99.6	87.7	89.6J	103	90	10-163		20	
Isopropylbenzene (Cumene)	ug/kg	ND	42.8	49.9	24.7	31.1	58	62	10-121	23	20	
Methyl-tert-butyl ether	ug/kg	ND	85.5	99.6	83.7	91.9	98	92	20-140	9	20	
Methylene Chloride	ug/kg	ND	42.8	49.9	36.6	39.4	86	79	28-131	7	20	
n-Butylbenzene	ug/kg	ND	42.8	49.9	16.6	22.7	39	46	10-110	31	20	
n-Hexane	ug/kg	ND	42.8	49.9	26.7	30.9	63	62	21-150	15	20	
n-Propylbenzene	ug/kg	ND	42.8	49.9	20.9	27.3	49	55	10-123	27	20	
Naphthalene	ug/kg	ND	42.8	49.9	16.8	23.4	39	47	10-106	33	20	
p-Isopropyltoluene	ug/kg	ND	42.8	49.9	18.8	25.3	44	51	10-117	29	20	
sec-Butylbenzene	ug/kg	ND	42.8	49.9	20.0	28.8	47	58	10-123	36	20	
Styrene	ug/kg	ND	42.8	49.9	24.0	28.7	56	58	10-119	18	20	
tert-Butylbenzene	ug/kg	ND	42.8	49.9	21.0	27.6	49	55	10-105	27	20	
Tetrachloroethene	ug/kg	ND	42.8	49.9	89.0	72.5	200	139	10-122	20	20	M0
Toluene	ug/kg	ND	42.8	49.9	30.3	34.9	71	70	10-131	14	20	
trans-1,2-Dichloroethene	ug/kg	ND	42.8	49.9	35.8	38.9	84	78	32-136	8	20	
trans-1,3-Dichloropropene	ug/kg	ND	42.8	49.9	30.0	36.1	70	72	10-101	19	20	
trans-1,4-Dichloro-2-butene	ug/kg	ND	171	199	103	131	60	66	10-104	24	20	
Trichloroethene	ug/kg	ND	42.8	49.9	39.3	41.6	91	82	15-133	6	20	
Trichlorofluoromethane	ug/kg	ND	42.8	49.9	41.9	44.2	98	89	37-152	5	20	
Vinyl acetate	ug/kg	ND	171	199	79.2J	152	46	76	10-103		20	
Vinyl chloride	ug/kg	ND	42.8	49.9	46.3	43.7	108	88	41-147	6	20	
Xylene (Total)	ug/kg	ND	129	150	75.6	91.5	59	61	10-131	19	20	
4-Bromofluorobenzene (S)	%.						100	100	67-134		20	
Dibromofluoromethane (S)	%.						109	102	71-125		20	1d
Toluene-d8 (S)	%.						98	96	76-124		20	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055610

QC Batch: MSV/38229 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 5055610003, 5055610004, 5055610005

METHOD BLANK: 663785 Matrix: Solid
Associated Lab Samples: 5055610003, 5055610004, 5055610005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	12/19/11 12:41	
1,1,1-Trichloroethane	ug/kg	ND	5.0	12/19/11 12:41	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	12/19/11 12:41	
1,1,2-Trichloroethane	ug/kg	ND	5.0	12/19/11 12:41	
1,1-Dichloroethane	ug/kg	ND	5.0	12/19/11 12:41	
1,1-Dichloroethene	ug/kg	ND	5.0	12/19/11 12:41	
1,1-Dichloropropene	ug/kg	ND	5.0	12/19/11 12:41	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	12/19/11 12:41	
1,2,3-Trichloropropane	ug/kg	ND	5.0	12/19/11 12:41	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	12/19/11 12:41	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	12/19/11 12:41	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	12/19/11 12:41	
1,2-Dichlorobenzene	ug/kg	ND	5.0	12/19/11 12:41	
1,2-Dichloroethane	ug/kg	ND	5.0	12/19/11 12:41	
1,2-Dichloropropane	ug/kg	ND	5.0	12/19/11 12:41	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	12/19/11 12:41	
1,3-Dichlorobenzene	ug/kg	ND	5.0	12/19/11 12:41	
1,3-Dichloropropane	ug/kg	ND	5.0	12/19/11 12:41	
1,4-Dichlorobenzene	ug/kg	ND	5.0	12/19/11 12:41	
2,2-Dichloropropane	ug/kg	ND	5.0	12/19/11 12:41	
2-Butanone (MEK)	ug/kg	ND	25.0	12/19/11 12:41	
2-Chlorotoluene	ug/kg	ND	5.0	12/19/11 12:41	
2-Hexanone	ug/kg	ND	100	12/19/11 12:41	
4-Chlorotoluene	ug/kg	ND	5.0	12/19/11 12:41	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	12/19/11 12:41	
Acetone	ug/kg	ND	100	12/19/11 12:41	
Acrolein	ug/kg	ND	100	12/19/11 12:41	
Acrylonitrile	ug/kg	ND	100	12/19/11 12:41	
Benzene	ug/kg	ND	5.0	12/19/11 12:41	
Bromobenzene	ug/kg	ND	5.0	12/19/11 12:41	
Bromochloromethane	ug/kg	ND	5.0	12/19/11 12:41	
Bromodichloromethane	ug/kg	ND	5.0	12/19/11 12:41	
Bromoform	ug/kg	ND	5.0	12/19/11 12:41	
Bromomethane	ug/kg	ND	5.0	12/19/11 12:41	
Carbon disulfide	ug/kg	ND	10.0	12/19/11 12:41	
Carbon tetrachloride	ug/kg	ND	5.0	12/19/11 12:41	
Chlorobenzene	ug/kg	ND	5.0	12/19/11 12:41	
Chloroethane	ug/kg	ND	5.0	12/19/11 12:41	
Chloroform	ug/kg	ND	5.0	12/19/11 12:41	
Chloromethane	ug/kg	ND	5.0	12/19/11 12:41	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	12/19/11 12:41	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	12/19/11 12:41	
Dibromochloromethane	ug/kg	ND	5.0	12/19/11 12:41	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055610

METHOD BLANK: 663785 Matrix: Solid

Associated Lab Samples: 5055610003, 5055610004, 5055610005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	5.0	12/19/11 12:41	
Dichlorodifluoromethane	ug/kg	ND	5.0	12/19/11 12:41	
Ethyl methacrylate	ug/kg	ND	100	12/19/11 12:41	
Ethylbenzene	ug/kg	ND	5.0	12/19/11 12:41	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	12/19/11 12:41	
Iodomethane	ug/kg	ND	100	12/19/11 12:41	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	12/19/11 12:41	
Methyl-tert-butyl ether	ug/kg	ND	5.0	12/19/11 12:41	
Methylene Chloride	ug/kg	ND	20.0	12/19/11 12:41	
n-Butylbenzene	ug/kg	ND	5.0	12/19/11 12:41	
n-Hexane	ug/kg	ND	5.0	12/19/11 12:41	
n-Propylbenzene	ug/kg	ND	5.0	12/19/11 12:41	
Naphthalene	ug/kg	ND	5.0	12/19/11 12:41	
p-Isopropyltoluene	ug/kg	ND	5.0	12/19/11 12:41	
sec-Butylbenzene	ug/kg	ND	5.0	12/19/11 12:41	
Styrene	ug/kg	ND	5.0	12/19/11 12:41	
tert-Butylbenzene	ug/kg	ND	5.0	12/19/11 12:41	
Tetrachloroethene	ug/kg	ND	5.0	12/19/11 12:41	
Toluene	ug/kg	ND	5.0	12/19/11 12:41	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	12/19/11 12:41	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	12/19/11 12:41	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	12/19/11 12:41	
Trichloroethene	ug/kg	ND	5.0	12/19/11 12:41	
Trichlorofluoromethane	ug/kg	ND	5.0	12/19/11 12:41	
Vinyl acetate	ug/kg	ND	100	12/19/11 12:41	
Vinyl chloride	ug/kg	ND	5.0	12/19/11 12:41	
Xylene (Total)	ug/kg	ND	10.0	12/19/11 12:41	
4-Bromofluorobenzene (S)	%.	101	67-134	12/19/11 12:41	
Dibromofluoromethane (S)	%.	114	71-125	12/19/11 12:41	
Toluene-d8 (S)	%.	105	76-124	12/19/11 12:41	

LABORATORY CONTROL SAMPLE: 663786

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	46.3	93	70-130	
1,1,1-Trichloroethane	ug/kg	50	46.4	93	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	50	46.5	93	70-130	
1,1,2-Trichloroethane	ug/kg	50	46.6	93	70-130	
1,1-Dichloroethane	ug/kg	50	53.3	107	70-130	
1,1-Dichloroethene	ug/kg	50	52.2	104	70-130	
1,1-Dichloropropene	ug/kg	50	45.7	91	70-130	
1,2,3-Trichlorobenzene	ug/kg	50	45.3	91	70-130	
1,2,3-Trichloropropane	ug/kg	50	78.9	158	70-130	L3
1,2,4-Trichlorobenzene	ug/kg	50	52.0	104	70-130	
1,2,4-Trimethylbenzene	ug/kg	50	50.8	102	70-130	

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Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055610

LABORATORY CONTROL SAMPLE: 663786

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/kg	50	44.2	88	70-130	
1,2-Dichlorobenzene	ug/kg	50	51.8	104	70-130	
1,2-Dichloroethane	ug/kg	50	44.1	88	70-130	
1,2-Dichloropropane	ug/kg	50	41.8	84	70-130	
1,3,5-Trimethylbenzene	ug/kg	50	47.4	95	70-130	
1,3-Dichlorobenzene	ug/kg	50	52.8	106	70-130	
1,3-Dichloropropane	ug/kg	50	45.0	90	70-130	
1,4-Dichlorobenzene	ug/kg	50	44.5	89	70-130	
2,2-Dichloropropane	ug/kg	50	53.9	108	40-160	
2-Butanone (MEK)	ug/kg	250	154	62	40-160	
2-Chlorotoluene	ug/kg	50	52.5	105	70-130	
2-Hexanone	ug/kg	250	140	56	40-160	
4-Chlorotoluene	ug/kg	50	46.4	93	70-130	
4-Methyl-2-pentanone (MIBK)	ug/kg	250	247	99	70-130	
Acetone	ug/kg	250	99.7J	40	40-160	
Acrolein	ug/kg	1000	1990	199	40-160	L3
Acrylonitrile	ug/kg	1000	1050	105	70-130	
Benzene	ug/kg	50	46.6	93	70-130	
Bromobenzene	ug/kg	50	50.6	101	70-130	
Bromochloromethane	ug/kg	50	54.4	109	70-130	
Bromodichloromethane	ug/kg	50	41.8	84	70-130	
Bromoform	ug/kg	50	34.5	69	70-130	L0
Bromomethane	ug/kg	50	40.7	81	40-160	
Carbon disulfide	ug/kg	100	112	112	40-160	
Carbon tetrachloride	ug/kg	50	43.1	86	70-130	
Chlorobenzene	ug/kg	50	44.7	89	70-130	
Chloroethane	ug/kg	50	56.0	112	70-130	
Chloroform	ug/kg	50	49.3	99	70-130	
Chloromethane	ug/kg	50	41.5	83	70-130	
cis-1,2-Dichloroethene	ug/kg	50	50.2	100	70-130	
cis-1,3-Dichloropropene	ug/kg	50	43.7	87	70-130	
Dibromochloromethane	ug/kg	50	40.7	81	70-130	
Dibromomethane	ug/kg	50	44.1	88	70-130	
Dichlorodifluoromethane	ug/kg	50	41.2	82	70-130	
Ethyl methacrylate	ug/kg	200	171	86	40-160	
Ethylbenzene	ug/kg	50	51.0	102	70-130	
Hexachloro-1,3-butadiene	ug/kg	50	44.7	89	70-130	
Iodomethane	ug/kg	100	77.7J	78	70-130	
Isopropylbenzene (Cumene)	ug/kg	50	52.4	105	70-130	
Methyl-tert-butyl ether	ug/kg	100	96.5	96	40-160	
Methylene Chloride	ug/kg	50	42.1	84	70-130	
n-Butylbenzene	ug/kg	50	50.3	101	70-130	
n-Hexane	ug/kg	50	40.2	80	70-130	
n-Propylbenzene	ug/kg	50	48.9	98	70-130	
Naphthalene	ug/kg	50	44.1	88	70-130	
p-Isopropyltoluene	ug/kg	50	54.8	110	70-130	
sec-Butylbenzene	ug/kg	50	49.0	98	70-130	
Styrene	ug/kg	50	42.9	86	70-130	

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Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055610

LABORATORY CONTROL SAMPLE: 663786

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/kg	50	39.7	79	70-130	
Tetrachloroethene	ug/kg	50	40.8	82	70-130	
Toluene	ug/kg	50	49.4	99	70-130	
trans-1,2-Dichloroethene	ug/kg	50	41.9	84	70-130	
trans-1,3-Dichloropropene	ug/kg	50	43.5	87	70-130	
trans-1,4-Dichloro-2-butene	ug/kg	200	185	93	70-130	
Trichloroethene	ug/kg	50	43.3	87	70-130	
Trichlorofluoromethane	ug/kg	50	49.0	98	70-130	
Vinyl acetate	ug/kg	200	211	106	40-160	
Vinyl chloride	ug/kg	50	43.6	87	70-130	
Xylene (Total)	ug/kg	150	144	96	70-130	
4-Bromofluorobenzene (S)	%.			96	70-130	
Dibromofluoromethane (S)	%.			102	70-130	
Toluene-d8 (S)	%.			98	70-130	

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(317)875-5894

QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055610

QC Batch: PMST/6550 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 5055610001, 5055610002, 5055610003, 5055610004, 5055610005

SAMPLE DUPLICATE: 658874

Parameter	Units	5055584004 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	13.8	19.7	35	5	R2

SAMPLE DUPLICATE: 658875

Parameter	Units	5055610001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	3.7	3.0	20	5	R2

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055610

QC Batch: WET/10560 Analysis Method: Walkley Black
QC Batch Method: Walkley Black Analysis Description: Organic Carbon Walkley Black
Associated Lab Samples: 5055610001, 5055610002, 5055610005, 5055610006, 5055610007

METHOD BLANK: 546097 Matrix: Solid
Associated Lab Samples: 5055610001, 5055610002, 5055610005, 5055610006, 5055610007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/kg	ND	400	12/15/11 15:03	

LABORATORY CONTROL SAMPLE: 546098

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/kg	16000	15700	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 546099 546100

Parameter	Units	5055793011 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	4520	15900	15900	18900	19700	90	95	80-120	4	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 546101 546102

Parameter	Units	20942573001 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	7000	16000	16000	23600	24000	104	106	80-120	1	20	

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QUALIFIERS

Project: Michigan Plaza M01046
Pace Project No.: 5055610

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.

LABORATORIES

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

ANALYTE QUALIFIERS

1d	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits for several compounds. RSW 12/19/11
2d	RPD value was outside control limits for several compounds. RSW 12/19/11
H1	Analysis conducted outside the EPA method holding time.
HS	Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
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.
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.
R2	RPD value was outside control limits due to matrix interference
p2	Post-analysis pH measurement indicates pH > 2.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Michigan Plaza M01046
Pace Project No.: 5055610

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5055610008	**GP20:39**	EPA 8260	MSV/38196		
5055610009	**GP20:30**	EPA 8260	MSV/38196		
5055610010	**GP21:38**	EPA 8260	MSV/38196		
5055610011	**GP21:28**	EPA 8260	MSV/38196		
5055610012	**WFD-1**	EPA 8260	MSV/38196		
5055610013	**Trip Blank**	EPA 8260	MSV/38196		
5055610001	**GP20:16-18**	EPA 8260	MSV/38194		
5055610002	**GP20:40-42**	EPA 8260	MSV/38194		
5055610003	**GP21:40-42**	EPA 8260	MSV/38229		
5055610004	**GP21:18-20**	EPA 8260	MSV/38229		
5055610005	**SFD-1**	EPA 8260	MSV/38229		
5055610001	**GP20:16-18**	ASTM D2974-87	PMST/6550		
5055610002	**GP20:40-42**	ASTM D2974-87	PMST/6550		
5055610003	**GP21:40-42**	ASTM D2974-87	PMST/6550		
5055610004	**GP21:18-20**	ASTM D2974-87	PMST/6550		
5055610005	**SFD-1**	ASTM D2974-87	PMST/6550		
5055610001	**GP20:16-18**	Walkley Black	WET/10560		
5055610002	**GP20:40-42**	Walkley Black	WET/10560		
5055610005	**SFD-1**	Walkley Black	WET/10560		
5055610006	**GP21:40-42**	Walkley Black	WET/10560		
5055610007	**GP21:18-20**	Walkley Black	WET/10560		

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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

1514883

Section A Required Client Information:

Company: Mundell
Address:
Email To: Swebb@mundellassociates.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: SARAH WEBB
Copy To:
Purchase Order No.:
Project Name: Michigan Plaza
Project Number: M010416

Section C Invoice Information:

Attention: MERLE 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: IN

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	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	Analysis Test Y/N: VOCs 8260	Walkley Black TOC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	GP20: 16-18	S	G	12/7/	1055				TC									X			5055610 001
2	GP20: 16-18	S	G		1055				1	X									X		1
3	GP20: 40-42	S	G		1055				TC									X			002
4	GP20: 40-42	S	G		1055				1	X									X		1
5	GP20: 39	W	G		1100				3			X						X			008
6	GP20: 30	W	G		1115				3			X						X			009
7	GP21: 40-42	S	G		1435				TC									X			003
8	GP21: 18-20	S	G		1440				TC									X			004
9	GP21: 38	W	G		1449				3			X						X			010
10	GP21: 28	W	G		1505				3			X						X			011
11	SFD-1	S	G		—				TC									X			005
12	SFD-1	S	G	↓	—				1	X									X		1

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)
Please run VOCs even if >1 mm headspace	Sarah Webb	12/8/11	11:22	Zeke Tech	12/8/11	11:22	1.3°C	Y	N	Y

WI/Pace 1254 ORIGINAL
KD 12-8-11

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

*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.

1514884

Section A Required Client Information:

Company: Mundell
Address:
Email To: SWebb@mundellassociates.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: SARAH WEBB
Copy To:
Purchase Order No.:
Project Name: Michigan Plaza
Project Number: M01046

Section C Invoice Information:

Attention: MERLE 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: IN

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	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: VOCs 8260 Soil Waiver Blank TOC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	WFD-1 ✓	W	G	12/7/11	—				3				X					X		5055610 012
2	GP21: 40-42 ✓	S	G		1435				1	X								X X		006
3	GP21: 18-20 ✓	S	G		1440				1	X								X X		007
4	Trip blank	W		↓	—				3	X								X		013
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Please run VOCs even if 7 lemm headspace. Thanks SW	Sarah Webb	12/8/11	11:22	Zehra Tech	12/8/11	11:22	1.3°C	Y	N	Y

ORIGINAL

WI / Pace KO 12-8-11 1254

SAMPLER NAME AND SIGNATURE			Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:						
SIGNATURE of SAMPLER:	DATE Signed (MM/DD/YY):					

*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 # 50555610

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

Tracking #: 1514883 / 1514884

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

Date/Time 5035A kits placed in freezer: 12-8-11 1303

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

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): 1.3°C

Ice Visible in Sample Containers: ☐ yes ☑ no

Temp should be above freezing to 6°C

Date and Initials of person examining contents: KD 12-8-11

				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. All but TRIPS
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:** 12/8/11

Sample Container Count

CLIENT: Mundell

COC PAGE 1 of 2

COC ID# _____

Project # 5055610

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

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

Sample Container Count

CLIENT: Mundell

COC PAGE 2 of 2

COC ID# _____

Project # 5055610

Sample Line Item	DG9H	AG1U	WGFU	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H					Comments
1	3																
2			1														
3			1														
4	3																
5																	
6																	
7																	
8																	
9																	
10																	
11																	
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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7726 Moller Road
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(317)875-5894

December 23, 2011

Ms. Sarah Webb
Mundell & Associates
110 South Downey Ave.
Indianapolis, IN 46219

RE: Project: MI Plaza M01046
Pace Project No.: 5055726

Dear Ms. Webb:
Enclosed are the analytical results for sample(s) received by the laboratory on December 09, 2011. 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.: 5055726

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
Wisconsin DATCP Certification #: 105-444

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 100418
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana/NELAC Certification #: 04076
Ohio VAP: CL0065
West Virginia Certification #: 330

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SAMPLE SUMMARY

Project: MI Plaza M01046
Pace Project No.: 5055726

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5055726001	**GP-22 18-20'**	Solid	12/08/11 10:00	12/09/11 11:30
5055726002	**GP-22 36-38'**	Solid	12/08/11 10:15	12/09/11 11:30
5055726003	**GP-22 34'**	Water	12/08/11 10:20	12/09/11 11:30
5055726004	**GP-22 24'**	Water	12/08/11 10:25	12/09/11 11:30
5055726005	**GP-23 17-19'**	Solid	12/08/11 13:47	12/09/11 11:30
5055726006	**GP-23 39-40'**	Solid	12/08/11 13:43	12/09/11 11:30
5055726007	**GP-23 37'**	Water	12/08/11 14:08	12/09/11 11:30
5055726008	**GP-23 27'**	Water	12/08/11 14:15	12/09/11 11:30
5055726009	**GP-22 18-20'**	Solid	12/08/11 10:00	12/09/11 11:30
5055726010	**GP-22 36-38'**	Solid	12/08/11 10:15	12/09/11 11:30
5055726011	**GP-23 17-19'**	Solid	12/08/11 13:47	12/09/11 11:30
5055726012	**GP-23 39-40'**	Solid	12/08/11 13:43	12/09/11 11:30
5055726013	**GP-27 17-19'**	Solid	12/08/11 16:35	12/09/11 11:30
5055726014	**GP-27 17-19'**	Solid	12/08/11 16:35	12/09/11 11:30

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SAMPLE ANALYTE COUNT

Project: MI Plaza M01046
Pace Project No.: 5055726

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
5055726001	**GP-22 18-20'**	Walkley Black	TJJ	3	PASI-G
5055726002	**GP-22 36-38'**	Walkley Black	TJJ	3	PASI-G
5055726003	**GP-22 34'**	EPA 8260	ALA	73	PASI-I
5055726004	**GP-22 24'**	EPA 8260	ALA	73	PASI-I
5055726005	**GP-23 17-19'**	Walkley Black	TJJ	3	PASI-G
5055726006	**GP-23 39-40'**	Walkley Black	TJJ	3	PASI-G
5055726007	**GP-23 37'**	EPA 8260	ALA	73	PASI-I
5055726008	**GP-23 27'**	EPA 8260	ALA	73	PASI-I
5055726009	**GP-22 18-20'**	EPA 8260	ALA	73	PASI-I
		ASTM D2974-87	MLS	1	PASI-I
5055726010	**GP-22 36-38'**	EPA 8260	ALA	73	PASI-I
		ASTM D2974-87	MLS	1	PASI-I
5055726011	**GP-23 17-19'**	EPA 8260	ALA	73	PASI-I
		ASTM D2974-87	MLS	1	PASI-I
5055726012	**GP-23 39-40'**	EPA 8260	ALA	73	PASI-I
		ASTM D2974-87	MLS	1	PASI-I
5055726013	**GP-27 17-19'**	Walkley Black	TJJ	3	PASI-G
5055726014	**GP-27 17-19'**	EPA 8260	ALA	73	PASI-I
		ASTM D2974-87	MLS	1	PASI-I

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5055726

Sample: GP-22 18-20' **Lab ID: 5055726001** Collected: 12/08/11 10:00 Received: 12/09/11 11:30 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Organic Carbon Walkley Black	Analytical Method: Walkley Black							
Total Organic Carbon	**6700**	mg/kg	400	1		12/16/11 15:27	7440-44-0	
Total Organic Carbon	**6080**	mg/kg	400	1		12/16/11 15:27	7440-44-0	
Total Organic Carbon	**6640**	mg/kg	400	1		12/16/11 15:27	7440-44-0	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5055726

Sample: GP-22 36-38' **Lab ID: 5055726002** Collected: 12/08/11 10:15 Received: 12/09/11 11:30 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Organic Carbon Walkley Black	Analytical Method: Walkley Black							
Total Organic Carbon	**8130**	mg/kg	401	1		12/16/11 15:27	7440-44-0	
Total Organic Carbon	**7950**	mg/kg	401	1		12/16/11 15:27	7440-44-0	
Total Organic Carbon	**8010**	mg/kg	401	1		12/16/11 15:27	7440-44-0	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5055726

Sample: GP-22 34' **Lab ID: 5055726003** Collected: 12/08/11 10:20 Received: 12/09/11 11:30 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		12/14/11 08:24	67-64-1	
Acrolein	ND	ug/L	50.0	1		12/14/11 08:24	107-02-8	
Acrylonitrile	ND	ug/L	100	1		12/14/11 08:24	107-13-1	
Benzene	ND	ug/L	5.0	1		12/14/11 08:24	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		12/14/11 08:24	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		12/14/11 08:24	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		12/14/11 08:24	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/14/11 08:24	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/14/11 08:24	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		12/14/11 08:24	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		12/14/11 08:24	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		12/14/11 08:24	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		12/14/11 08:24	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		12/14/11 08:24	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/14/11 08:24	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/14/11 08:24	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/14/11 08:24	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/14/11 08:24	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/14/11 08:24	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		12/14/11 08:24	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		12/14/11 08:24	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		12/14/11 08:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/14/11 08:24	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		12/14/11 08:24	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/14/11 08:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/14/11 08:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/14/11 08:24	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		12/14/11 08:24	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		12/14/11 08:24	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/14/11 08:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/14/11 08:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/14/11 08:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		12/14/11 08:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/14/11 08:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/14/11 08:24	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		12/14/11 08:24	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		12/14/11 08:24	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		12/14/11 08:24	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/14/11 08:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/14/11 08:24	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/14/11 08:24	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		12/14/11 08:24	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/14/11 08:24	87-68-3	
n-Hexane	ND	ug/L	5.0	1		12/14/11 08:24	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		12/14/11 08:24	591-78-6	
Iodomethane	ND	ug/L	10.0	1		12/14/11 08:24	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		12/14/11 08:24	98-82-8	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5055726

Sample: GP-22 34' **Lab ID: 5055726003** Collected: 12/08/11 10:20 Received: 12/09/11 11:30 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		12/14/11 08:24	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		12/14/11 08:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		12/14/11 08:24	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		12/14/11 08:24	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/14/11 08:24	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		12/14/11 08:24	103-65-1	
Styrene	ND	ug/L	5.0	1		12/14/11 08:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		12/14/11 08:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/14/11 08:24	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/14/11 08:24	127-18-4	
Toluene	ND	ug/L	5.0	1		12/14/11 08:24	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		12/14/11 08:24	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		12/14/11 08:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/14/11 08:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/14/11 08:24	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/14/11 08:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/14/11 08:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		12/14/11 08:24	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		12/14/11 08:24	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		12/14/11 08:24	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		12/14/11 08:24	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		12/14/11 08:24	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/14/11 08:24	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%.	83-123	1		12/14/11 08:24	1868-53-7	
4-Bromofluorobenzene (S)	99	%.	72-125	1		12/14/11 08:24	460-00-4	
Toluene-d8 (S)	102	%.	81-114	1		12/14/11 08:24	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5055726

Sample: GP-22 24' **Lab ID: 5055726004** Collected: 12/08/11 10:25 Received: 12/09/11 11:30 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		12/14/11 08:56	67-64-1	
Acrolein	ND	ug/L	50.0	1		12/14/11 08:56	107-02-8	
Acrylonitrile	ND	ug/L	100	1		12/14/11 08:56	107-13-1	
Benzene	ND	ug/L	5.0	1		12/14/11 08:56	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		12/14/11 08:56	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		12/14/11 08:56	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		12/14/11 08:56	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/14/11 08:56	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/14/11 08:56	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		12/14/11 08:56	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		12/14/11 08:56	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		12/14/11 08:56	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		12/14/11 08:56	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		12/14/11 08:56	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/14/11 08:56	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/14/11 08:56	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/14/11 08:56	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/14/11 08:56	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/14/11 08:56	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		12/14/11 08:56	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		12/14/11 08:56	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		12/14/11 08:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/14/11 08:56	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		12/14/11 08:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/14/11 08:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/14/11 08:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/14/11 08:56	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		12/14/11 08:56	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		12/14/11 08:56	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/14/11 08:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/14/11 08:56	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/14/11 08:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		12/14/11 08:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/14/11 08:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/14/11 08:56	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		12/14/11 08:56	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		12/14/11 08:56	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		12/14/11 08:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/14/11 08:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/14/11 08:56	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/14/11 08:56	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		12/14/11 08:56	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/14/11 08:56	87-68-3	
n-Hexane	ND	ug/L	5.0	1		12/14/11 08:56	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		12/14/11 08:56	591-78-6	
Iodomethane	ND	ug/L	10.0	1		12/14/11 08:56	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		12/14/11 08:56	98-82-8	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5055726

Sample: GP-22 24' **Lab ID: 5055726004** Collected: 12/08/11 10:25 Received: 12/09/11 11:30 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		12/14/11 08:56	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		12/14/11 08:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		12/14/11 08:56	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		12/14/11 08:56	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/14/11 08:56	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		12/14/11 08:56	103-65-1	
Styrene	ND	ug/L	5.0	1		12/14/11 08:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		12/14/11 08:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/14/11 08:56	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/14/11 08:56	127-18-4	
Toluene	ND	ug/L	5.0	1		12/14/11 08:56	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		12/14/11 08:56	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		12/14/11 08:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/14/11 08:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/14/11 08:56	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/14/11 08:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/14/11 08:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		12/14/11 08:56	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		12/14/11 08:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		12/14/11 08:56	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		12/14/11 08:56	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		12/14/11 08:56	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/14/11 08:56	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%.	83-123	1		12/14/11 08:56	1868-53-7	
4-Bromofluorobenzene (S)	99	%.	72-125	1		12/14/11 08:56	460-00-4	
Toluene-d8 (S)	102	%.	81-114	1		12/14/11 08:56	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5055726

Sample: GP-23 17-19' **Lab ID: 5055726005** Collected: 12/08/11 13:47 Received: 12/09/11 11:30 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Organic Carbon Walkley Black	Analytical Method: Walkley Black							
Total Organic Carbon	**7010**	mg/kg	400	1		12/16/11 15:27	7440-44-0	
Total Organic Carbon	**5960**	mg/kg	400	1		12/16/11 15:27	7440-44-0	
Total Organic Carbon	**6270**	mg/kg	400	1		12/16/11 15:27	7440-44-0	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5055726

Sample: GP-23 39-40' **Lab ID: 5055726006** Collected: 12/08/11 13:43 Received: 12/09/11 11:30 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Organic Carbon Walkley Black	Analytical Method: Walkley Black							
Total Organic Carbon	**7780**	mg/kg	402	1		12/16/11 15:27	7440-44-0	
Total Organic Carbon	**7840**	mg/kg	402	1		12/16/11 15:27	7440-44-0	
Total Organic Carbon	**7220**	mg/kg	402	1		12/16/11 15:27	7440-44-0	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5055726

Sample: GP-23 37' **Lab ID: 5055726007** Collected: 12/08/11 14:08 Received: 12/09/11 11:30 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		12/14/11 09:28	67-64-1	
Acrolein	ND	ug/L	50.0	1		12/14/11 09:28	107-02-8	
Acrylonitrile	ND	ug/L	100	1		12/14/11 09:28	107-13-1	
Benzene	ND	ug/L	5.0	1		12/14/11 09:28	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		12/14/11 09:28	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		12/14/11 09:28	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		12/14/11 09:28	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/14/11 09:28	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/14/11 09:28	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		12/14/11 09:28	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		12/14/11 09:28	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		12/14/11 09:28	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		12/14/11 09:28	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		12/14/11 09:28	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/14/11 09:28	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/14/11 09:28	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/14/11 09:28	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/14/11 09:28	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/14/11 09:28	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		12/14/11 09:28	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		12/14/11 09:28	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		12/14/11 09:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/14/11 09:28	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		12/14/11 09:28	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/14/11 09:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/14/11 09:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/14/11 09:28	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		12/14/11 09:28	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		12/14/11 09:28	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/14/11 09:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/14/11 09:28	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/14/11 09:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		12/14/11 09:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/14/11 09:28	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/14/11 09:28	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		12/14/11 09:28	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		12/14/11 09:28	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		12/14/11 09:28	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/14/11 09:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/14/11 09:28	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/14/11 09:28	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		12/14/11 09:28	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/14/11 09:28	87-68-3	
n-Hexane	ND	ug/L	5.0	1		12/14/11 09:28	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		12/14/11 09:28	591-78-6	
Iodomethane	ND	ug/L	10.0	1		12/14/11 09:28	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		12/14/11 09:28	98-82-8	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5055726

Sample: GP-23 37' **Lab ID: 5055726007** Collected: 12/08/11 14:08 Received: 12/09/11 11:30 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		12/14/11 09:28	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		12/14/11 09:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		12/14/11 09:28	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		12/14/11 09:28	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/14/11 09:28	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		12/14/11 09:28	103-65-1	
Styrene	ND	ug/L	5.0	1		12/14/11 09:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		12/14/11 09:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/14/11 09:28	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/14/11 09:28	127-18-4	
Toluene	ND	ug/L	5.0	1		12/14/11 09:28	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		12/14/11 09:28	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		12/14/11 09:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/14/11 09:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/14/11 09:28	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/14/11 09:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/14/11 09:28	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		12/14/11 09:28	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		12/14/11 09:28	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		12/14/11 09:28	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		12/14/11 09:28	108-05-4	
Vinyl chloride	**7.2**	ug/L	2.0	1		12/14/11 09:28	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/14/11 09:28	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	95	%.	83-123	1		12/14/11 09:28	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	72-125	1		12/14/11 09:28	460-00-4	
Toluene-d8 (S)	102	%.	81-114	1		12/14/11 09:28	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5055726

Sample: GP-23 27' **Lab ID: 5055726008** Collected: 12/08/11 14:15 Received: 12/09/11 11:30 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		12/14/11 10:00	67-64-1	
Acrolein	ND	ug/L	50.0	1		12/14/11 10:00	107-02-8	
Acrylonitrile	ND	ug/L	100	1		12/14/11 10:00	107-13-1	
Benzene	ND	ug/L	5.0	1		12/14/11 10:00	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		12/14/11 10:00	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		12/14/11 10:00	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		12/14/11 10:00	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/14/11 10:00	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/14/11 10:00	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		12/14/11 10:00	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		12/14/11 10:00	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		12/14/11 10:00	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		12/14/11 10:00	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		12/14/11 10:00	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/14/11 10:00	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/14/11 10:00	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/14/11 10:00	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/14/11 10:00	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/14/11 10:00	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		12/14/11 10:00	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		12/14/11 10:00	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		12/14/11 10:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/14/11 10:00	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		12/14/11 10:00	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/14/11 10:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/14/11 10:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/14/11 10:00	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		12/14/11 10:00	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		12/14/11 10:00	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/14/11 10:00	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/14/11 10:00	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/14/11 10:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		12/14/11 10:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/14/11 10:00	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/14/11 10:00	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		12/14/11 10:00	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		12/14/11 10:00	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		12/14/11 10:00	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/14/11 10:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/14/11 10:00	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/14/11 10:00	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		12/14/11 10:00	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/14/11 10:00	87-68-3	
n-Hexane	ND	ug/L	5.0	1		12/14/11 10:00	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		12/14/11 10:00	591-78-6	
Iodomethane	ND	ug/L	10.0	1		12/14/11 10:00	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		12/14/11 10:00	98-82-8	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5055726

Sample: GP-23 27' **Lab ID: 5055726008** Collected: 12/08/11 14:15 Received: 12/09/11 11:30 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		12/14/11 10:00	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		12/14/11 10:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		12/14/11 10:00	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		12/14/11 10:00	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/14/11 10:00	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		12/14/11 10:00	103-65-1	
Styrene	ND	ug/L	5.0	1		12/14/11 10:00	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		12/14/11 10:00	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/14/11 10:00	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/14/11 10:00	127-18-4	
Toluene	ND	ug/L	5.0	1		12/14/11 10:00	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		12/14/11 10:00	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		12/14/11 10:00	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/14/11 10:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/14/11 10:00	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/14/11 10:00	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/14/11 10:00	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		12/14/11 10:00	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		12/14/11 10:00	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		12/14/11 10:00	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		12/14/11 10:00	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		12/14/11 10:00	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/14/11 10:00	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	95	%.	83-123	1		12/14/11 10:00	1868-53-7	
4-Bromofluorobenzene (S)	99	%.	72-125	1		12/14/11 10:00	460-00-4	
Toluene-d8 (S)	102	%.	81-114	1		12/14/11 10:00	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5055726

Sample: GP-22 18-20' **Lab ID: 5055726009** Collected: 12/08/11 10:00 Received: 12/09/11 11:30 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	111	1		12/20/11 22:32	67-64-1	
Acrolein	ND	ug/kg	111	1		12/20/11 22:32	107-02-8	
Acrylonitrile	ND	ug/kg	111	1		12/20/11 22:32	107-13-1	
Benzene	ND	ug/kg	5.5	1		12/20/11 22:32	71-43-2	
Bromobenzene	ND	ug/kg	5.5	1		12/20/11 22:32	108-86-1	
Bromochloromethane	ND	ug/kg	5.5	1		12/20/11 22:32	74-97-5	
Bromodichloromethane	ND	ug/kg	5.5	1		12/20/11 22:32	75-27-4	
Bromoform	ND	ug/kg	5.5	1		12/20/11 22:32	75-25-2	
Bromomethane	ND	ug/kg	5.5	1		12/20/11 22:32	74-83-9	
2-Butanone (MEK)	ND	ug/kg	27.7	1		12/20/11 22:32	78-93-3	
n-Butylbenzene	ND	ug/kg	5.5	1		12/20/11 22:32	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.5	1		12/20/11 22:32	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.5	1		12/20/11 22:32	98-06-6	
Carbon disulfide	ND	ug/kg	11.1	1		12/20/11 22:32	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.5	1		12/20/11 22:32	56-23-5	
Chlorobenzene	ND	ug/kg	5.5	1		12/20/11 22:32	108-90-7	
Chloroethane	ND	ug/kg	5.5	1		12/20/11 22:32	75-00-3	
Chloroform	ND	ug/kg	5.5	1		12/20/11 22:32	67-66-3	
Chloromethane	ND	ug/kg	5.5	1		12/20/11 22:32	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.5	1		12/20/11 22:32	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.5	1		12/20/11 22:32	106-43-4	
Dibromochloromethane	ND	ug/kg	5.5	1		12/20/11 22:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.5	1		12/20/11 22:32	106-93-4	
Dibromomethane	ND	ug/kg	5.5	1		12/20/11 22:32	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.5	1		12/20/11 22:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.5	1		12/20/11 22:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.5	1		12/20/11 22:32	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	111	1		12/20/11 22:32	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.5	1		12/20/11 22:32	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.5	1		12/20/11 22:32	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.5	1		12/20/11 22:32	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.5	1		12/20/11 22:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.5	1		12/20/11 22:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.5	1		12/20/11 22:32	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.5	1		12/20/11 22:32	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.5	1		12/20/11 22:32	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.5	1		12/20/11 22:32	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.5	1		12/20/11 22:32	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.5	1		12/20/11 22:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.5	1		12/20/11 22:32	10061-02-6	
Ethylbenzene	ND	ug/kg	5.5	1		12/20/11 22:32	100-41-4	
Ethyl methacrylate	ND	ug/kg	111	1		12/20/11 22:32	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.5	1		12/20/11 22:32	87-68-3	
n-Hexane	ND	ug/kg	5.5	1		12/20/11 22:32	110-54-3	
2-Hexanone	ND	ug/kg	111	1		12/20/11 22:32	591-78-6	
Iodomethane	ND	ug/kg	111	1		12/20/11 22:32	74-88-4	

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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.: 5055726

Sample: GP-22 18-20' **Lab ID: 5055726009** Collected: 12/08/11 10:00 Received: 12/09/11 11:30 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	5.5	1		12/20/11 22:32	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.5	1		12/20/11 22:32	99-87-6	
Methylene Chloride	ND	ug/kg	22.2	1		12/20/11 22:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	27.7	1		12/20/11 22:32	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.5	1		12/20/11 22:32	1634-04-4	
Naphthalene	ND	ug/kg	5.5	1		12/20/11 22:32	91-20-3	
n-Propylbenzene	ND	ug/kg	5.5	1		12/20/11 22:32	103-65-1	
Styrene	ND	ug/kg	5.5	1		12/20/11 22:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.5	1		12/20/11 22:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.5	1		12/20/11 22:32	79-34-5	
Tetrachloroethene	ND	ug/kg	5.5	1		12/20/11 22:32	127-18-4	
Toluene	ND	ug/kg	5.5	1		12/20/11 22:32	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.5	1		12/20/11 22:32	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.5	1		12/20/11 22:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.5	1		12/20/11 22:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.5	1		12/20/11 22:32	79-00-5	
Trichloroethene	ND	ug/kg	5.5	1		12/20/11 22:32	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.5	1		12/20/11 22:32	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.5	1		12/20/11 22:32	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.5	1		12/20/11 22:32	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.5	1		12/20/11 22:32	108-67-8	
Vinyl acetate	ND	ug/kg	111	1		12/20/11 22:32	108-05-4	
Vinyl chloride	ND	ug/kg	5.5	1		12/20/11 22:32	75-01-4	
Xylene (Total)	ND	ug/kg	11.1	1		12/20/11 22:32	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	71-125	1		12/20/11 22:32	1868-53-7	
Toluene-d8 (S)	99	%.	76-124	1		12/20/11 22:32	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	67-134	1		12/20/11 22:32	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**14.8**	%	0.10	1		12/13/11 10:08		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5055726

Sample: GP-22 36-38' **Lab ID: 5055726010** Collected: 12/08/11 10:15 Received: 12/09/11 11:30 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	66.4	1		12/21/11 06:36	67-64-1	
Acrolein	ND	ug/kg	66.4	1		12/21/11 06:36	107-02-8	
Acrylonitrile	ND	ug/kg	66.4	1		12/21/11 06:36	107-13-1	
Benzene	ND	ug/kg	3.3	1		12/21/11 06:36	71-43-2	
Bromobenzene	ND	ug/kg	3.3	1		12/21/11 06:36	108-86-1	
Bromochloromethane	ND	ug/kg	3.3	1		12/21/11 06:36	74-97-5	
Bromodichloromethane	ND	ug/kg	3.3	1		12/21/11 06:36	75-27-4	
Bromoform	ND	ug/kg	3.3	1		12/21/11 06:36	75-25-2	
Bromomethane	ND	ug/kg	3.3	1		12/21/11 06:36	74-83-9	
2-Butanone (MEK)	ND	ug/kg	16.6	1		12/21/11 06:36	78-93-3	
n-Butylbenzene	ND	ug/kg	3.3	1		12/21/11 06:36	104-51-8	
sec-Butylbenzene	ND	ug/kg	3.3	1		12/21/11 06:36	135-98-8	
tert-Butylbenzene	ND	ug/kg	3.3	1		12/21/11 06:36	98-06-6	
Carbon disulfide	ND	ug/kg	6.6	1		12/21/11 06:36	75-15-0	
Carbon tetrachloride	ND	ug/kg	3.3	1		12/21/11 06:36	56-23-5	
Chlorobenzene	ND	ug/kg	3.3	1		12/21/11 06:36	108-90-7	
Chloroethane	ND	ug/kg	3.3	1		12/21/11 06:36	75-00-3	
Chloroform	ND	ug/kg	3.3	1		12/21/11 06:36	67-66-3	
Chloromethane	ND	ug/kg	3.3	1		12/21/11 06:36	74-87-3	
2-Chlorotoluene	ND	ug/kg	3.3	1		12/21/11 06:36	95-49-8	
4-Chlorotoluene	ND	ug/kg	3.3	1		12/21/11 06:36	106-43-4	
Dibromochloromethane	ND	ug/kg	3.3	1		12/21/11 06:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.3	1		12/21/11 06:36	106-93-4	
Dibromomethane	ND	ug/kg	3.3	1		12/21/11 06:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.3	1		12/21/11 06:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.3	1		12/21/11 06:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.3	1		12/21/11 06:36	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	66.4	1		12/21/11 06:36	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	3.3	1		12/21/11 06:36	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.3	1		12/21/11 06:36	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.3	1		12/21/11 06:36	107-06-2	
1,1-Dichloroethene	ND	ug/kg	3.3	1		12/21/11 06:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	3.3	1		12/21/11 06:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.3	1		12/21/11 06:36	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.3	1		12/21/11 06:36	78-87-5	
1,3-Dichloropropane	ND	ug/kg	3.3	1		12/21/11 06:36	142-28-9	
2,2-Dichloropropane	ND	ug/kg	3.3	1		12/21/11 06:36	594-20-7	
1,1-Dichloropropene	ND	ug/kg	3.3	1		12/21/11 06:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	3.3	1		12/21/11 06:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.3	1		12/21/11 06:36	10061-02-6	
Ethylbenzene	ND	ug/kg	3.3	1		12/21/11 06:36	100-41-4	
Ethyl methacrylate	ND	ug/kg	66.4	1		12/21/11 06:36	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	3.3	1		12/21/11 06:36	87-68-3	
n-Hexane	ND	ug/kg	3.3	1		12/21/11 06:36	110-54-3	
2-Hexanone	ND	ug/kg	66.4	1		12/21/11 06:36	591-78-6	
Iodomethane	ND	ug/kg	66.4	1		12/21/11 06:36	74-88-4	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5055726

Sample: GP-22 36-38' **Lab ID: 5055726010** Collected: 12/08/11 10:15 Received: 12/09/11 11:30 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	3.3	1		12/21/11 06:36	98-82-8	
p-Isopropyltoluene	ND	ug/kg	3.3	1		12/21/11 06:36	99-87-6	
Methylene Chloride	ND	ug/kg	13.3	1		12/21/11 06:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	16.6	1		12/21/11 06:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	3.3	1		12/21/11 06:36	1634-04-4	
Naphthalene	ND	ug/kg	3.3	1		12/21/11 06:36	91-20-3	
n-Propylbenzene	ND	ug/kg	3.3	1		12/21/11 06:36	103-65-1	
Styrene	ND	ug/kg	3.3	1		12/21/11 06:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.3	1		12/21/11 06:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.3	1		12/21/11 06:36	79-34-5	
Tetrachloroethene	ND	ug/kg	3.3	1		12/21/11 06:36	127-18-4	
Toluene	ND	ug/kg	3.3	1		12/21/11 06:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	3.3	1		12/21/11 06:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	3.3	1		12/21/11 06:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	3.3	1		12/21/11 06:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.3	1		12/21/11 06:36	79-00-5	
Trichloroethene	ND	ug/kg	3.3	1		12/21/11 06:36	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.3	1		12/21/11 06:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	3.3	1		12/21/11 06:36	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	3.3	1		12/21/11 06:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	3.3	1		12/21/11 06:36	108-67-8	
Vinyl acetate	ND	ug/kg	66.4	1		12/21/11 06:36	108-05-4	
Vinyl chloride	ND	ug/kg	3.3	1		12/21/11 06:36	75-01-4	
Xylene (Total)	ND	ug/kg	6.6	1		12/21/11 06:36	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%.	71-125	1		12/21/11 06:36	1868-53-7	
Toluene-d8 (S)	100	%.	76-124	1		12/21/11 06:36	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	67-134	1		12/21/11 06:36	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**8.6**	%	0.10	1		12/13/11 10:08		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5055726

Sample: GP-23 17-19' **Lab ID: 5055726011** Collected: 12/08/11 13:47 Received: 12/09/11 11:30 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	91.8	1		12/21/11 07:08	67-64-1	
Acrolein	ND	ug/kg	91.8	1		12/21/11 07:08	107-02-8	
Acrylonitrile	ND	ug/kg	91.8	1		12/21/11 07:08	107-13-1	
Benzene	ND	ug/kg	4.6	1		12/21/11 07:08	71-43-2	
Bromobenzene	ND	ug/kg	4.6	1		12/21/11 07:08	108-86-1	
Bromochloromethane	ND	ug/kg	4.6	1		12/21/11 07:08	74-97-5	
Bromodichloromethane	ND	ug/kg	4.6	1		12/21/11 07:08	75-27-4	
Bromoform	ND	ug/kg	4.6	1		12/21/11 07:08	75-25-2	
Bromomethane	ND	ug/kg	4.6	1		12/21/11 07:08	74-83-9	
2-Butanone (MEK)	ND	ug/kg	23.0	1		12/21/11 07:08	78-93-3	
n-Butylbenzene	ND	ug/kg	4.6	1		12/21/11 07:08	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.6	1		12/21/11 07:08	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.6	1		12/21/11 07:08	98-06-6	
Carbon disulfide	ND	ug/kg	9.2	1		12/21/11 07:08	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.6	1		12/21/11 07:08	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	1		12/21/11 07:08	108-90-7	
Chloroethane	ND	ug/kg	4.6	1		12/21/11 07:08	75-00-3	
Chloroform	ND	ug/kg	4.6	1		12/21/11 07:08	67-66-3	
Chloromethane	ND	ug/kg	4.6	1		12/21/11 07:08	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.6	1		12/21/11 07:08	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.6	1		12/21/11 07:08	106-43-4	
Dibromochloromethane	ND	ug/kg	4.6	1		12/21/11 07:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.6	1		12/21/11 07:08	106-93-4	
Dibromomethane	ND	ug/kg	4.6	1		12/21/11 07:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.6	1		12/21/11 07:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.6	1		12/21/11 07:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.6	1		12/21/11 07:08	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	91.8	1		12/21/11 07:08	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.6	1		12/21/11 07:08	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.6	1		12/21/11 07:08	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	1		12/21/11 07:08	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	1		12/21/11 07:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.6	1		12/21/11 07:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	1		12/21/11 07:08	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	1		12/21/11 07:08	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.6	1		12/21/11 07:08	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.6	1		12/21/11 07:08	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.6	1		12/21/11 07:08	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	1		12/21/11 07:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	1		12/21/11 07:08	10061-02-6	
Ethylbenzene	ND	ug/kg	4.6	1		12/21/11 07:08	100-41-4	
Ethyl methacrylate	ND	ug/kg	91.8	1		12/21/11 07:08	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.6	1		12/21/11 07:08	87-68-3	
n-Hexane	ND	ug/kg	4.6	1		12/21/11 07:08	110-54-3	
2-Hexanone	ND	ug/kg	91.8	1		12/21/11 07:08	591-78-6	
Iodomethane	ND	ug/kg	91.8	1		12/21/11 07:08	74-88-4	

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

ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5055726

Sample: GP-23 17-19' **Lab ID: 5055726011** Collected: 12/08/11 13:47 Received: 12/09/11 11:30 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		12/21/11 07:08	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.6	1		12/21/11 07:08	99-87-6	
Methylene Chloride	ND	ug/kg	18.4	1		12/21/11 07:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	23.0	1		12/21/11 07:08	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.6	1		12/21/11 07:08	1634-04-4	
Naphthalene	ND	ug/kg	4.6	1		12/21/11 07:08	91-20-3	
n-Propylbenzene	ND	ug/kg	4.6	1		12/21/11 07:08	103-65-1	
Styrene	ND	ug/kg	4.6	1		12/21/11 07:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		12/21/11 07:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.6	1		12/21/11 07:08	79-34-5	
Tetrachloroethene	ND	ug/kg	4.6	1		12/21/11 07:08	127-18-4	
Toluene	ND	ug/kg	4.6	1		12/21/11 07:08	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.6	1		12/21/11 07:08	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.6	1		12/21/11 07:08	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.6	1		12/21/11 07:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	1		12/21/11 07:08	79-00-5	
Trichloroethene	ND	ug/kg	4.6	1		12/21/11 07:08	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.6	1		12/21/11 07:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.6	1		12/21/11 07:08	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.6	1		12/21/11 07:08	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.6	1		12/21/11 07:08	108-67-8	
Vinyl acetate	ND	ug/kg	91.8	1		12/21/11 07:08	108-05-4	
Vinyl chloride	ND	ug/kg	4.6	1		12/21/11 07:08	75-01-4	
Xylene (Total)	ND	ug/kg	9.2	1		12/21/11 07:08	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%.	71-125	1		12/21/11 07:08	1868-53-7	
Toluene-d8 (S)	101	%.	76-124	1		12/21/11 07:08	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	67-134	1		12/21/11 07:08	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**3.6**	%	0.10	1		12/13/11 10:08		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5055726

Sample: GP-23 39-40' **Lab ID: 5055726012** Collected: 12/08/11 13:43 Received: 12/09/11 11:30 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	**178**	ug/kg	86.5	1		12/21/11 07:41	67-64-1	1d
Acrolein	ND	ug/kg	86.5	1		12/21/11 07:41	107-02-8	
Acrylonitrile	ND	ug/kg	86.5	1		12/21/11 07:41	107-13-1	
Benzene	ND	ug/kg	4.3	1		12/21/11 07:41	71-43-2	
Bromobenzene	ND	ug/kg	4.3	1		12/21/11 07:41	108-86-1	
Bromochloromethane	ND	ug/kg	4.3	1		12/21/11 07:41	74-97-5	
Bromodichloromethane	ND	ug/kg	4.3	1		12/21/11 07:41	75-27-4	
Bromoform	ND	ug/kg	4.3	1		12/21/11 07:41	75-25-2	
Bromomethane	ND	ug/kg	4.3	1		12/21/11 07:41	74-83-9	
2-Butanone (MEK)	ND	ug/kg	21.6	1		12/21/11 07:41	78-93-3	
n-Butylbenzene	ND	ug/kg	4.3	1		12/21/11 07:41	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.3	1		12/21/11 07:41	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.3	1		12/21/11 07:41	98-06-6	
Carbon disulfide	ND	ug/kg	8.6	1		12/21/11 07:41	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.3	1		12/21/11 07:41	56-23-5	
Chlorobenzene	ND	ug/kg	4.3	1		12/21/11 07:41	108-90-7	
Chloroethane	ND	ug/kg	4.3	1		12/21/11 07:41	75-00-3	
Chloroform	ND	ug/kg	4.3	1		12/21/11 07:41	67-66-3	
Chloromethane	ND	ug/kg	4.3	1		12/21/11 07:41	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.3	1		12/21/11 07:41	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.3	1		12/21/11 07:41	106-43-4	
Dibromochloromethane	ND	ug/kg	4.3	1		12/21/11 07:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.3	1		12/21/11 07:41	106-93-4	
Dibromomethane	ND	ug/kg	4.3	1		12/21/11 07:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.3	1		12/21/11 07:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.3	1		12/21/11 07:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.3	1		12/21/11 07:41	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	86.5	1		12/21/11 07:41	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.3	1		12/21/11 07:41	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.3	1		12/21/11 07:41	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.3	1		12/21/11 07:41	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.3	1		12/21/11 07:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.3	1		12/21/11 07:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.3	1		12/21/11 07:41	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.3	1		12/21/11 07:41	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.3	1		12/21/11 07:41	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.3	1		12/21/11 07:41	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.3	1		12/21/11 07:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.3	1		12/21/11 07:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.3	1		12/21/11 07:41	10061-02-6	
Ethylbenzene	ND	ug/kg	4.3	1		12/21/11 07:41	100-41-4	
Ethyl methacrylate	ND	ug/kg	86.5	1		12/21/11 07:41	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.3	1		12/21/11 07:41	87-68-3	
n-Hexane	ND	ug/kg	4.3	1		12/21/11 07:41	110-54-3	
2-Hexanone	ND	ug/kg	86.5	1		12/21/11 07:41	591-78-6	
Iodomethane	ND	ug/kg	86.5	1		12/21/11 07:41	74-88-4	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5055726

Sample: GP-23 39-40' **Lab ID: 5055726012** Collected: 12/08/11 13:43 Received: 12/09/11 11:30 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		12/21/11 07:41	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.3	1		12/21/11 07:41	99-87-6	
Methylene Chloride	ND	ug/kg	17.3	1		12/21/11 07:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	21.6	1		12/21/11 07:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.3	1		12/21/11 07:41	1634-04-4	
Naphthalene	ND	ug/kg	4.3	1		12/21/11 07:41	91-20-3	
n-Propylbenzene	ND	ug/kg	4.3	1		12/21/11 07:41	103-65-1	
Styrene	ND	ug/kg	4.3	1		12/21/11 07:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.3	1		12/21/11 07:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.3	1		12/21/11 07:41	79-34-5	
Tetrachloroethene	ND	ug/kg	4.3	1		12/21/11 07:41	127-18-4	
Toluene	ND	ug/kg	4.3	1		12/21/11 07:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.3	1		12/21/11 07:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.3	1		12/21/11 07:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.3	1		12/21/11 07:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.3	1		12/21/11 07:41	79-00-5	
Trichloroethene	ND	ug/kg	4.3	1		12/21/11 07:41	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.3	1		12/21/11 07:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.3	1		12/21/11 07:41	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.3	1		12/21/11 07:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.3	1		12/21/11 07:41	108-67-8	
Vinyl acetate	ND	ug/kg	86.5	1		12/21/11 07:41	108-05-4	
Vinyl chloride	ND	ug/kg	4.3	1		12/21/11 07:41	75-01-4	
Xylene (Total)	ND	ug/kg	8.6	1		12/21/11 07:41	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%.	71-125	1		12/21/11 07:41	1868-53-7	
Toluene-d8 (S)	100	%.	76-124	1		12/21/11 07:41	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	67-134	1		12/21/11 07:41	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**7.3**	%	0.10	1		12/13/11 10:09		

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5055726

Sample: GP-27 17-19' **Lab ID: 5055726013** Collected: 12/08/11 16:35 Received: 12/09/11 11:30 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Organic Carbon Walkley Black	Analytical Method: Walkley Black							
Total Organic Carbon	**7870**	mg/kg	400	1		12/16/11 15:27	7440-44-0	
Total Organic Carbon	**7310**	mg/kg	400	1		12/16/11 15:27	7440-44-0	
Total Organic Carbon	**7500**	mg/kg	400	1		12/16/11 15:27	7440-44-0	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5055726

Sample: GP-27 17-19' **Lab ID: 5055726014** Collected: 12/08/11 16:35 Received: 12/09/11 11:30 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	81.5	1		12/21/11 08:13	67-64-1	
Acrolein	ND	ug/kg	81.5	1		12/21/11 08:13	107-02-8	
Acrylonitrile	ND	ug/kg	81.5	1		12/21/11 08:13	107-13-1	
Benzene	ND	ug/kg	4.1	1		12/21/11 08:13	71-43-2	
Bromobenzene	ND	ug/kg	4.1	1		12/21/11 08:13	108-86-1	
Bromochloromethane	ND	ug/kg	4.1	1		12/21/11 08:13	74-97-5	
Bromodichloromethane	ND	ug/kg	4.1	1		12/21/11 08:13	75-27-4	
Bromoform	ND	ug/kg	4.1	1		12/21/11 08:13	75-25-2	
Bromomethane	ND	ug/kg	4.1	1		12/21/11 08:13	74-83-9	
2-Butanone (MEK)	ND	ug/kg	20.4	1		12/21/11 08:13	78-93-3	
n-Butylbenzene	ND	ug/kg	4.1	1		12/21/11 08:13	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.1	1		12/21/11 08:13	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.1	1		12/21/11 08:13	98-06-6	
Carbon disulfide	ND	ug/kg	8.1	1		12/21/11 08:13	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.1	1		12/21/11 08:13	56-23-5	
Chlorobenzene	ND	ug/kg	4.1	1		12/21/11 08:13	108-90-7	
Chloroethane	ND	ug/kg	4.1	1		12/21/11 08:13	75-00-3	
Chloroform	ND	ug/kg	4.1	1		12/21/11 08:13	67-66-3	
Chloromethane	ND	ug/kg	4.1	1		12/21/11 08:13	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.1	1		12/21/11 08:13	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.1	1		12/21/11 08:13	106-43-4	
Dibromochloromethane	ND	ug/kg	4.1	1		12/21/11 08:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.1	1		12/21/11 08:13	106-93-4	
Dibromomethane	ND	ug/kg	4.1	1		12/21/11 08:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.1	1		12/21/11 08:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.1	1		12/21/11 08:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.1	1		12/21/11 08:13	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	81.5	1		12/21/11 08:13	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.1	1		12/21/11 08:13	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.1	1		12/21/11 08:13	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.1	1		12/21/11 08:13	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.1	1		12/21/11 08:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.1	1		12/21/11 08:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.1	1		12/21/11 08:13	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.1	1		12/21/11 08:13	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.1	1		12/21/11 08:13	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.1	1		12/21/11 08:13	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.1	1		12/21/11 08:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.1	1		12/21/11 08:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.1	1		12/21/11 08:13	10061-02-6	
Ethylbenzene	ND	ug/kg	4.1	1		12/21/11 08:13	100-41-4	
Ethyl methacrylate	ND	ug/kg	81.5	1		12/21/11 08:13	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.1	1		12/21/11 08:13	87-68-3	
n-Hexane	ND	ug/kg	4.1	1		12/21/11 08:13	110-54-3	
2-Hexanone	ND	ug/kg	81.5	1		12/21/11 08:13	591-78-6	
Iodomethane	ND	ug/kg	81.5	1		12/21/11 08:13	74-88-4	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5055726

Sample: GP-27 17-19' **Lab ID: 5055726014** Collected: 12/08/11 16:35 Received: 12/09/11 11:30 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	4.1	1		12/21/11 08:13	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.1	1		12/21/11 08:13	99-87-6	
Methylene Chloride	ND	ug/kg	16.3	1		12/21/11 08:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	20.4	1		12/21/11 08:13	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.1	1		12/21/11 08:13	1634-04-4	
Naphthalene	ND	ug/kg	4.1	1		12/21/11 08:13	91-20-3	
n-Propylbenzene	ND	ug/kg	4.1	1		12/21/11 08:13	103-65-1	
Styrene	ND	ug/kg	4.1	1		12/21/11 08:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.1	1		12/21/11 08:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.1	1		12/21/11 08:13	79-34-5	
Tetrachloroethene	ND	ug/kg	4.1	1		12/21/11 08:13	127-18-4	
Toluene	ND	ug/kg	4.1	1		12/21/11 08:13	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.1	1		12/21/11 08:13	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.1	1		12/21/11 08:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.1	1		12/21/11 08:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.1	1		12/21/11 08:13	79-00-5	
Trichloroethene	ND	ug/kg	4.1	1		12/21/11 08:13	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.1	1		12/21/11 08:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.1	1		12/21/11 08:13	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.1	1		12/21/11 08:13	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.1	1		12/21/11 08:13	108-67-8	
Vinyl acetate	ND	ug/kg	81.5	1		12/21/11 08:13	108-05-4	
Vinyl chloride	ND	ug/kg	4.1	1		12/21/11 08:13	75-01-4	
Xylene (Total)	ND	ug/kg	8.1	1		12/21/11 08:13	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%.	71-125	1		12/21/11 08:13	1868-53-7	
Toluene-d8 (S)	100	%.	76-124	1		12/21/11 08:13	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	67-134	1		12/21/11 08:13	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**2.8**	%	0.10	1		12/13/11 10:09		

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5055726

QC Batch: MSV/38061 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5055726003, 5055726004, 5055726007, 5055726008

METHOD BLANK: 660559 Matrix: Water
Associated Lab Samples: 5055726003, 5055726004, 5055726007, 5055726008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	12/14/11 00:25	
1,1,1-Trichloroethane	ug/L	ND	5.0	12/14/11 00:25	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	12/14/11 00:25	
1,1,2-Trichloroethane	ug/L	ND	5.0	12/14/11 00:25	
1,1-Dichloroethane	ug/L	ND	5.0	12/14/11 00:25	
1,1-Dichloroethene	ug/L	ND	5.0	12/14/11 00:25	
1,1-Dichloropropene	ug/L	ND	5.0	12/14/11 00:25	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	12/14/11 00:25	
1,2,3-Trichloropropane	ug/L	ND	5.0	12/14/11 00:25	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	12/14/11 00:25	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	12/14/11 00:25	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	12/14/11 00:25	
1,2-Dichlorobenzene	ug/L	ND	5.0	12/14/11 00:25	
1,2-Dichloroethane	ug/L	ND	5.0	12/14/11 00:25	
1,2-Dichloropropane	ug/L	ND	5.0	12/14/11 00:25	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	12/14/11 00:25	
1,3-Dichlorobenzene	ug/L	ND	5.0	12/14/11 00:25	
1,3-Dichloropropane	ug/L	ND	5.0	12/14/11 00:25	
1,4-Dichlorobenzene	ug/L	ND	5.0	12/14/11 00:25	
2,2-Dichloropropane	ug/L	ND	5.0	12/14/11 00:25	
2-Butanone (MEK)	ug/L	ND	25.0	12/14/11 00:25	
2-Chlorotoluene	ug/L	ND	5.0	12/14/11 00:25	
2-Hexanone	ug/L	ND	25.0	12/14/11 00:25	
4-Chlorotoluene	ug/L	ND	5.0	12/14/11 00:25	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	12/14/11 00:25	
Acetone	ug/L	ND	100	12/14/11 00:25	
Acrolein	ug/L	ND	50.0	12/14/11 00:25	
Acrylonitrile	ug/L	ND	100	12/14/11 00:25	
Benzene	ug/L	ND	5.0	12/14/11 00:25	
Bromobenzene	ug/L	ND	5.0	12/14/11 00:25	
Bromochloromethane	ug/L	ND	5.0	12/14/11 00:25	
Bromodichloromethane	ug/L	ND	5.0	12/14/11 00:25	
Bromoform	ug/L	ND	5.0	12/14/11 00:25	
Bromomethane	ug/L	ND	5.0	12/14/11 00:25	
Carbon disulfide	ug/L	ND	10.0	12/14/11 00:25	
Carbon tetrachloride	ug/L	ND	5.0	12/14/11 00:25	
Chlorobenzene	ug/L	ND	5.0	12/14/11 00:25	
Chloroethane	ug/L	ND	5.0	12/14/11 00:25	
Chloroform	ug/L	ND	5.0	12/14/11 00:25	
Chloromethane	ug/L	ND	5.0	12/14/11 00:25	
cis-1,2-Dichloroethene	ug/L	ND	5.0	12/14/11 00:25	
cis-1,3-Dichloropropene	ug/L	ND	5.0	12/14/11 00:25	
Dibromochloromethane	ug/L	ND	5.0	12/14/11 00:25	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5055726

METHOD BLANK: 660559 Matrix: Water

Associated Lab Samples: 5055726003, 5055726004, 5055726007, 5055726008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	5.0	12/14/11 00:25	
Dichlorodifluoromethane	ug/L	ND	5.0	12/14/11 00:25	
Ethyl methacrylate	ug/L	ND	100	12/14/11 00:25	
Ethylbenzene	ug/L	ND	5.0	12/14/11 00:25	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	12/14/11 00:25	
Iodomethane	ug/L	ND	10.0	12/14/11 00:25	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	12/14/11 00:25	
Methyl-tert-butyl ether	ug/L	ND	4.0	12/14/11 00:25	
Methylene Chloride	ug/L	ND	5.0	12/14/11 00:25	
n-Butylbenzene	ug/L	ND	5.0	12/14/11 00:25	
n-Hexane	ug/L	ND	5.0	12/14/11 00:25	N2
n-Propylbenzene	ug/L	ND	5.0	12/14/11 00:25	
Naphthalene	ug/L	ND	5.0	12/14/11 00:25	
p-Isopropyltoluene	ug/L	ND	5.0	12/14/11 00:25	
sec-Butylbenzene	ug/L	ND	5.0	12/14/11 00:25	
Styrene	ug/L	ND	5.0	12/14/11 00:25	
tert-Butylbenzene	ug/L	ND	5.0	12/14/11 00:25	
Tetrachloroethene	ug/L	ND	5.0	12/14/11 00:25	
Toluene	ug/L	ND	5.0	12/14/11 00:25	
trans-1,2-Dichloroethene	ug/L	ND	5.0	12/14/11 00:25	
trans-1,3-Dichloropropene	ug/L	ND	5.0	12/14/11 00:25	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	12/14/11 00:25	
Trichloroethene	ug/L	ND	5.0	12/14/11 00:25	
Trichlorofluoromethane	ug/L	ND	5.0	12/14/11 00:25	
Vinyl acetate	ug/L	ND	50.0	12/14/11 00:25	
Vinyl chloride	ug/L	ND	2.0	12/14/11 00:25	
Xylene (Total)	ug/L	ND	10.0	12/14/11 00:25	
4-Bromofluorobenzene (S)	%.	97	72-125	12/14/11 00:25	
Dibromofluoromethane (S)	%.	97	83-123	12/14/11 00:25	
Toluene-d8 (S)	%.	101	81-114	12/14/11 00:25	

LABORATORY CONTROL SAMPLE: 660560

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	41.5	83	69-122	
1,1,1-Trichloroethane	ug/L	50	43.2	86	69-126	
1,1,2,2-Tetrachloroethane	ug/L	50	47.4	95	68-134	
1,1,2-Trichloroethane	ug/L	50	46.7	93	77-129	
1,1-Dichloroethane	ug/L	50	45.0	90	70-127	
1,1-Dichloroethene	ug/L	50	46.6	93	75-145	
1,1-Dichloropropene	ug/L	50	45.0	90	75-126	
1,2,3-Trichlorobenzene	ug/L	50	40.5	81	63-130	
1,2,3-Trichloropropane	ug/L	50	58.7	117	45-121	
1,2,4-Trichlorobenzene	ug/L	50	40.4	81	64-122	
1,2,4-Trimethylbenzene	ug/L	50	44.7	89	68-129	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5055726

LABORATORY CONTROL SAMPLE: 660560

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	50	42.9	86	77-123	
1,2-Dichlorobenzene	ug/L	50	43.3	87	74-123	
1,2-Dichloroethane	ug/L	50	44.6	89	71-127	
1,2-Dichloropropane	ug/L	50	44.1	88	75-126	
1,3,5-Trimethylbenzene	ug/L	50	44.3	89	69-129	
1,3-Dichlorobenzene	ug/L	50	42.9	86	76-123	
1,3-Dichloropropane	ug/L	50	43.1	86	77-126	
1,4-Dichlorobenzene	ug/L	50	47.7	95	77-121	
2,2-Dichloropropane	ug/L	50	37.8	76	45-138	
2-Butanone (MEK)	ug/L	250	204	82	42-177	
2-Chlorotoluene	ug/L	50	51.9	104	74-129	
2-Hexanone	ug/L	250	202	81	57-162	
4-Chlorotoluene	ug/L	50	46.0	92	70-125	
4-Methyl-2-pentanone (MIBK)	ug/L	250	202	81	64-135	
Acetone	ug/L	250	220	88	10-200	
Acrolein	ug/L	1000	1420	142	10-200	
Acrylonitrile	ug/L	1000	869	87	59-144	
Benzene	ug/L	50	42.2	84	76-123	
Bromobenzene	ug/L	50	43.8	88	67-130	
Bromochloromethane	ug/L	50	42.6	85	58-153	
Bromodichloromethane	ug/L	50	41.3	83	71-124	
Bromoform	ug/L	50	32.1	64	64-116	
Bromomethane	ug/L	50	46.0	92	23-197	
Carbon disulfide	ug/L	100	94.1	94	55-146	
Carbon tetrachloride	ug/L	50	37.7	75	65-125	
Chlorobenzene	ug/L	50	43.6	87	78-120	
Chloroethane	ug/L	50	63.1	126	56-163	
Chloroform	ug/L	50	45.8	92	73-122	
Chloromethane	ug/L	50	64.7	129	46-146	
cis-1,2-Dichloroethene	ug/L	50	43.3	87	79-129	
cis-1,3-Dichloropropene	ug/L	50	35.8	72	66-123	
Dibromochloromethane	ug/L	50	39.8	80	70-123	
Dibromomethane	ug/L	50	45.0	90	73-123	
Dichlorodifluoromethane	ug/L	50	57.0	114	19-200	
Ethyl methacrylate	ug/L	200	174	87	70-127	
Ethylbenzene	ug/L	50	44.3	89	75-120	
Hexachloro-1,3-butadiene	ug/L	50	41.0	82	64-131	
Iodomethane	ug/L	100	56.2	56	16-181	
Isopropylbenzene (Cumene)	ug/L	50	46.0	92	73-123	
Methyl-tert-butyl ether	ug/L	100	79.2	79	66-128	
Methylene Chloride	ug/L	50	42.5	85	61-138	
n-Butylbenzene	ug/L	50	45.3	91	69-130	
n-Hexane	ug/L	50	41.5	83	67-142	N2
n-Propylbenzene	ug/L	50	51.5	103	71-132	
Naphthalene	ug/L	50	41.1	82	62-130	
p-Isopropyltoluene	ug/L	50	45.5	91	71-126	
sec-Butylbenzene	ug/L	50	45.3	91	69-130	
Styrene	ug/L	50	44.0	88	75-125	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5055726

LABORATORY CONTROL SAMPLE: 660560

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	36.9	74	49-114	
Tetrachloroethene	ug/L	50	43.3	87	57-125	
Toluene	ug/L	50	43.3	87	72-124	
trans-1,2-Dichloroethene	ug/L	50	43.9	88	71-145	
trans-1,3-Dichloropropene	ug/L	50	35.8	72	58-118	
trans-1,4-Dichloro-2-butene	ug/L	200	121	60	50-121	
Trichloroethene	ug/L	50	42.3	85	77-122	
Trichlorofluoromethane	ug/L	50	63.6	127	56-159	
Vinyl acetate	ug/L	200	140	70	27-119	
Vinyl chloride	ug/L	50	57.0	114	61-146	
Xylene (Total)	ug/L	150	141	94	72-126	
4-Bromofluorobenzene (S)	%.			100	72-125	
Dibromofluoromethane (S)	%.			102	83-123	
Toluene-d8 (S)	%.			102	81-114	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 660561 660562

Parameter	Units	5055525004 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/L	ND	50	50	35.1	34.6	70	69	30-122	1	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	39.4	37.1	79	74	37-136	6	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	44.9	41.7	90	83	47-132	7	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	44.8	42.7	90	85	53-131	5	20	
1,1-Dichloroethane	ug/L	ND	50	50	42.9	40.6	86	81	47-138	5	20	
1,1-Dichloroethene	ug/L	ND	50	50	44.5	39.8	89	80	54-152	11	20	
1,1-Dichloropropene	ug/L	ND	50	50	43.4	40.2	87	80	47-136	8	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	36.0	34.8	72	70	15-132	3	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	52.4	47.9	105	96	24-108	9	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	34.5	32.7	69	65	10-130	5	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	39.2	37.7	78	75	10-141	4	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	40.7	39.0	81	78	49-130	4	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	39.6	37.9	79	76	20-137	4	20	
1,2-Dichloroethane	ug/L	ND	50	50	43.1	39.7	86	79	42-139	8	20	
1,2-Dichloropropane	ug/L	ND	50	50	42.4	39.2	85	78	50-131	8	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	40.2	38.4	80	77	10-145	4	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	38.4	36.4	77	73	13-143	5	20	
1,3-Dichloropropane	ug/L	ND	50	50	41.4	38.9	83	78	53-130	6	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	42.9	40.9	86	82	13-140	5	20	
2,2-Dichloropropane	ug/L	ND	50	50	32.2	30.6	64	61	13-142	5	20	
2-Butanone (MEK)	ug/L	ND	250	250	213	188	85	75	43-142	13	20	
2-Chlorotoluene	ug/L	ND	50	50	47.6	44.5	95	89	15-145	7	20	
2-Hexanone	ug/L	ND	250	250	202	188	81	75	46-139	7	20	
4-Chlorotoluene	ug/L	ND	50	50	41.6	39.1	83	78	12-143	6	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	199	184	80	73	43-140	8	20	
Acetone	ug/L	ND	250	250	238	199	95	80	38-155	18	20	
Acrolein	ug/L	ND	1000	1000	1080	941	108	94	11-200	14	20	
Acrylonitrile	ug/L	ND	1000	1000	867	784	87	78	42-150	10	20	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5055726

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 660561 660562

Parameter	Units	5055525004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	50	50	40.6	37.8	81	76	52-134	7	20	
Bromobenzene	ug/L	ND	50	50	40.8	39.1	82	78	25-140	4	20	
Bromochloromethane	ug/L	ND	50	50	43.2	40.7	86	81	54-144	6	20	
Bromodichloromethane	ug/L	ND	50	50	37.4	35.7	75	71	42-128	5	20	
Bromoform	ug/L	ND	50	50	27.6	26.6	55	53	34-116	4	20	
Bromomethane	ug/L	ND	50	50	53.8	58.6	108	117	10-200	9	20	
Carbon disulfide	ug/L	ND	100	100	91.1	82.4	91	82	43-144	10	20	
Carbon tetrachloride	ug/L	ND	50	50	31.7	30.9	63	62	26-136	3	20	
Chlorobenzene	ug/L	ND	50	50	40.5	39.1	81	78	33-136	4	20	
Chloroethane	ug/L	ND	50	50	61.5	55.7	123	111	21-200	10	20	
Chloroform	ug/L	ND	50	50	48.5	45.7	88	83	50-134	6	20	
Chloromethane	ug/L	ND	50	50	60.5	46.4	121	93	32-160	26	20	R1
cis-1,2-Dichloroethene	ug/L	ND	50	50	42.9	39.6	83	77	48-145	8	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	30.1	29.3	60	59	35-116	3	20	
Dibromochloromethane	ug/L	ND	50	50	33.4	33.5	67	67	39-122	.1	20	
Dibromomethane	ug/L	ND	50	50	45.0	41.3	90	83	49-134	8	20	
Dichlorodifluoromethane	ug/L	ND	50	50	54.7	50.5	109	101	35-200	8	20	
Ethyl methacrylate	ug/L	ND	200	200	157	148	79	74	54-123	6	20	
Ethylbenzene	ug/L	ND	50	50	41.2	39.6	82	79	29-132	4	20	
Hexachloro-1,3-butadiene	ug/L	ND	50	50	36.7	35.5	73	71	10-146	3	20	
Iodomethane	ug/L	ND	100	100	55.2	84.1	55	84	10-171	41	20	R1
Isopropylbenzene (Cumene)	ug/L	ND	50	50	42.9	41.2	86	82	11-146	4	20	
Methyl-tert-butyl ether	ug/L	ND	100	100	76.0	68.6	76	69	39-137	10	20	
Methylene Chloride	ug/L	ND	50	50	41.1	38.1	82	76	47-141	8	20	
n-Butylbenzene	ug/L	ND	50	50	40.8	38.5	82	77	10-156	6	20	
n-Hexane	ug/L	ND	50	50	41.7	37.9	83	76	51-137	10	20	N2
n-Propylbenzene	ug/L	ND	50	50	47.5	44.6	95	89	10-148	6	20	
Naphthalene	ug/L	ND	50	50	37.2	35.8	74	72	40-124	4	20	
p-Isopropyltoluene	ug/L	ND	50	50	41.5	39.7	83	79	10-150	5	20	
sec-Butylbenzene	ug/L	ND	50	50	42.3	40.3	85	81	10-150	5	20	
Styrene	ug/L	ND	50	50	37.4	35.8	75	72	20-143	4	20	
tert-Butylbenzene	ug/L	ND	50	50	34.8	33.1	70	66	10-123	5	20	
Tetrachloroethene	ug/L	74.3	50	50	116	115	83	81	30-124	.8	20	
Toluene	ug/L	ND	50	50	40.7	39.0	80	77	42-130	4	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	41.5	38.7	83	77	48-144	7	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	30.1	29.3	60	59	24-114	3	20	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	112	101	56	51	22-120	10	20	
Trichloroethene	ug/L	5.2	50	50	46.2	43.6	82	77	44-130	6	20	
Trichlorofluoromethane	ug/L	ND	50	50	60.7	55.1	121	110	17-200	10	20	
Vinyl acetate	ug/L	ND	200	200	111	104	55	52	10-115	6	20	
Vinyl chloride	ug/L	ND	50	50	55.1	50.3	110	101	45-159	9	20	
Xylene (Total)	ug/L	ND	150	150	130	124	87	83	29-131	5	20	
4-Bromofluorobenzene (S)	%.						101	102	72-125		20	
Dibromofluoromethane (S)	%.						101	99	83-123		20	
Toluene-d8 (S)	%.						100	102	81-114		20	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5055726

QC Batch: MSV/38242
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 5055726009

METHOD BLANK: 663891
Matrix: Solid
Associated Lab Samples: 5055726009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	12/20/11 12:47	
1,1,1-Trichloroethane	ug/kg	ND	5.0	12/20/11 12:47	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	12/20/11 12:47	
1,1,2-Trichloroethane	ug/kg	ND	5.0	12/20/11 12:47	
1,1-Dichloroethane	ug/kg	ND	5.0	12/20/11 12:47	
1,1-Dichloroethene	ug/kg	ND	5.0	12/20/11 12:47	
1,1-Dichloropropene	ug/kg	ND	5.0	12/20/11 12:47	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	12/20/11 12:47	
1,2,3-Trichloropropane	ug/kg	ND	5.0	12/20/11 12:47	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	12/20/11 12:47	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	12/20/11 12:47	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	12/20/11 12:47	
1,2-Dichlorobenzene	ug/kg	ND	5.0	12/20/11 12:47	
1,2-Dichloroethane	ug/kg	ND	5.0	12/20/11 12:47	
1,2-Dichloropropane	ug/kg	ND	5.0	12/20/11 12:47	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	12/20/11 12:47	
1,3-Dichlorobenzene	ug/kg	ND	5.0	12/20/11 12:47	
1,3-Dichloropropane	ug/kg	ND	5.0	12/20/11 12:47	
1,4-Dichlorobenzene	ug/kg	ND	5.0	12/20/11 12:47	
2,2-Dichloropropane	ug/kg	ND	5.0	12/20/11 12:47	
2-Butanone (MEK)	ug/kg	ND	25.0	12/20/11 12:47	
2-Chlorotoluene	ug/kg	ND	5.0	12/20/11 12:47	
2-Hexanone	ug/kg	ND	100	12/20/11 12:47	
4-Chlorotoluene	ug/kg	ND	5.0	12/20/11 12:47	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	12/20/11 12:47	
Acetone	ug/kg	ND	100	12/20/11 12:47	
Acrolein	ug/kg	ND	100	12/20/11 12:47	
Acrylonitrile	ug/kg	ND	100	12/20/11 12:47	
Benzene	ug/kg	ND	5.0	12/20/11 12:47	
Bromobenzene	ug/kg	ND	5.0	12/20/11 12:47	
Bromochloromethane	ug/kg	ND	5.0	12/20/11 12:47	
Bromodichloromethane	ug/kg	ND	5.0	12/20/11 12:47	
Bromoform	ug/kg	ND	5.0	12/20/11 12:47	
Bromomethane	ug/kg	ND	5.0	12/20/11 12:47	
Carbon disulfide	ug/kg	ND	10.0	12/20/11 12:47	
Carbon tetrachloride	ug/kg	ND	5.0	12/20/11 12:47	
Chlorobenzene	ug/kg	ND	5.0	12/20/11 12:47	
Chloroethane	ug/kg	ND	5.0	12/20/11 12:47	
Chloroform	ug/kg	ND	5.0	12/20/11 12:47	
Chloromethane	ug/kg	ND	5.0	12/20/11 12:47	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	12/20/11 12:47	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	12/20/11 12:47	
Dibromochloromethane	ug/kg	ND	5.0	12/20/11 12:47	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5055726

METHOD BLANK: 663891 Matrix: Solid

Associated Lab Samples: 5055726009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	5.0	12/20/11 12:47	
Dichlorodifluoromethane	ug/kg	ND	5.0	12/20/11 12:47	
Ethyl methacrylate	ug/kg	ND	100	12/20/11 12:47	
Ethylbenzene	ug/kg	ND	5.0	12/20/11 12:47	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	12/20/11 12:47	
Iodomethane	ug/kg	ND	100	12/20/11 12:47	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	12/20/11 12:47	
Methyl-tert-butyl ether	ug/kg	ND	5.0	12/20/11 12:47	
Methylene Chloride	ug/kg	ND	20.0	12/20/11 12:47	
n-Butylbenzene	ug/kg	ND	5.0	12/20/11 12:47	
n-Hexane	ug/kg	ND	5.0	12/20/11 12:47	
n-Propylbenzene	ug/kg	ND	5.0	12/20/11 12:47	
Naphthalene	ug/kg	ND	5.0	12/20/11 12:47	
p-Isopropyltoluene	ug/kg	ND	5.0	12/20/11 12:47	
sec-Butylbenzene	ug/kg	ND	5.0	12/20/11 12:47	
Styrene	ug/kg	ND	5.0	12/20/11 12:47	
tert-Butylbenzene	ug/kg	ND	5.0	12/20/11 12:47	
Tetrachloroethene	ug/kg	ND	5.0	12/20/11 12:47	
Toluene	ug/kg	ND	5.0	12/20/11 12:47	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	12/20/11 12:47	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	12/20/11 12:47	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	12/20/11 12:47	
Trichloroethene	ug/kg	ND	5.0	12/20/11 12:47	
Trichlorofluoromethane	ug/kg	ND	5.0	12/20/11 12:47	
Vinyl acetate	ug/kg	ND	100	12/20/11 12:47	
Vinyl chloride	ug/kg	ND	5.0	12/20/11 12:47	
Xylene (Total)	ug/kg	ND	10.0	12/20/11 12:47	
4-Bromofluorobenzene (S)	%.	100	67-134	12/20/11 12:47	
Dibromofluoromethane (S)	%.	97	71-125	12/20/11 12:47	
Toluene-d8 (S)	%.	99	76-124	12/20/11 12:47	

LABORATORY CONTROL SAMPLE: 663892

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	44.8	90	70-130	
1,1,1-Trichloroethane	ug/kg	50	46.5	93	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	50	50.6	101	70-130	
1,1,2-Trichloroethane	ug/kg	50	49.6	99	70-130	
1,1-Dichloroethane	ug/kg	50	48.1	96	70-130	
1,1-Dichloroethene	ug/kg	50	47.8	96	70-130	
1,1-Dichloropropene	ug/kg	50	47.2	94	70-130	
1,2,3-Trichlorobenzene	ug/kg	50	50.2	100	70-130	
1,2,3-Trichloropropane	ug/kg	50	68.2	136	70-130	L3
1,2,4-Trichlorobenzene	ug/kg	50	50.8	102	70-130	
1,2,4-Trimethylbenzene	ug/kg	50	49.6	99	70-130	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5055726

LABORATORY CONTROL SAMPLE: 663892

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/kg	50	46.5	93	70-130	
1,2-Dichlorobenzene	ug/kg	50	49.6	99	70-130	
1,2-Dichloroethane	ug/kg	50	47.0	94	70-130	
1,2-Dichloropropane	ug/kg	50	47.1	94	70-130	
1,3,5-Trimethylbenzene	ug/kg	50	48.4	97	70-130	
1,3-Dichlorobenzene	ug/kg	50	49.0	98	70-130	
1,3-Dichloropropane	ug/kg	50	46.6	93	70-130	
1,4-Dichlorobenzene	ug/kg	50	47.8	96	70-130	
2,2-Dichloropropane	ug/kg	50	43.4	87	40-160	
2-Butanone (MEK)	ug/kg	250	251	100	40-160	
2-Chlorotoluene	ug/kg	50	47.6	95	70-130	
2-Hexanone	ug/kg	250	251	101	40-160	
4-Chlorotoluene	ug/kg	50	49.9	100	70-130	
4-Methyl-2-pentanone (MIBK)	ug/kg	250	235	94	70-130	
Acetone	ug/kg	250	252	101	40-160	
Acrolein	ug/kg	1000	1570	157	40-160	
Acrylonitrile	ug/kg	1000	956	96	70-130	
Benzene	ug/kg	50	45.4	91	70-130	
Bromobenzene	ug/kg	50	48.8	98	70-130	
Bromochloromethane	ug/kg	50	47.2	94	70-130	
Bromodichloromethane	ug/kg	50	43.7	87	70-130	
Bromoform	ug/kg	50	43.2	86	70-130	
Bromomethane	ug/kg	50	55.9	112	40-160	
Carbon disulfide	ug/kg	100	99.7	100	40-160	
Carbon tetrachloride	ug/kg	50	42.4	85	70-130	
Chlorobenzene	ug/kg	50	49.8	100	70-130	
Chloroethane	ug/kg	50	52.5	105	70-130	
Chloroform	ug/kg	50	46.1	92	70-130	
Chloromethane	ug/kg	50	46.9	94	70-130	
cis-1,2-Dichloroethene	ug/kg	50	45.5	91	70-130	
cis-1,3-Dichloropropene	ug/kg	50	41.4	83	70-130	
Dibromochloromethane	ug/kg	50	42.2	84	70-130	
Dibromomethane	ug/kg	50	46.9	94	70-130	
Dichlorodifluoromethane	ug/kg	50	43.8	88	70-130	
Ethyl methacrylate	ug/kg	200	179	90	40-160	
Ethylbenzene	ug/kg	50	47.9	96	70-130	
Hexachloro-1,3-butadiene	ug/kg	50	47.2	94	70-130	
Iodomethane	ug/kg	100	98.9J	99	70-130	
Isopropylbenzene (Cumene)	ug/kg	50	50.3	101	70-130	
Methyl-tert-butyl ether	ug/kg	100	92.5	93	40-160	
Methylene Chloride	ug/kg	50	41.4	83	70-130	
n-Butylbenzene	ug/kg	50	49.0	98	70-130	
n-Hexane	ug/kg	50	40.2	80	70-130	
n-Propylbenzene	ug/kg	50	47.9	96	70-130	
Naphthalene	ug/kg	50	50.6	101	70-130	
p-Isopropyltoluene	ug/kg	50	49.9	100	70-130	
sec-Butylbenzene	ug/kg	50	48.9	98	70-130	
Styrene	ug/kg	50	50.0	100	70-130	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5055726

LABORATORY CONTROL SAMPLE: 663892

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/kg	50	40.2	80	70-130	
Tetrachloroethene	ug/kg	50	49.4	99	70-130	
Toluene	ug/kg	50	44.7	89	70-130	
trans-1,2-Dichloroethene	ug/kg	50	46.9	94	70-130	
trans-1,3-Dichloropropene	ug/kg	50	41.4	83	70-130	
trans-1,4-Dichloro-2-butene	ug/kg	200	170	85	70-130	
Trichloroethene	ug/kg	50	46.5	93	70-130	
Trichlorofluoromethane	ug/kg	50	54.5	109	70-130	
Vinyl acetate	ug/kg	200	168	84	40-160	
Vinyl chloride	ug/kg	50	52.0	104	70-130	
Xylene (Total)	ug/kg	150	141	94	70-130	
4-Bromofluorobenzene (S)	%.			99	70-130	
Dibromofluoromethane (S)	%.			101	70-130	
Toluene-d8 (S)	%.			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 663893 663894

Parameter	Units	5055805016 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	42.1	50.7	30.3	38.4	72	76	10-111	24	20	
1,1,1-Trichloroethane	ug/kg	ND	42.1	50.7	35.2	43.8	84	86	36-128	22	20	
1,1,2,2-Tetrachloroethane	ug/kg	ND	42.1	50.7	36.1	44.6	86	88	10-130	21	20	
1,1,2-Trichloroethane	ug/kg	ND	42.1	50.7	37.8	45.2	90	89	10-126	18	20	
1,1-Dichloroethane	ug/kg	ND	42.1	50.7	39.7	47.1	94	93	39-126	17	20	
1,1-Dichloroethene	ug/kg	ND	42.1	50.7	41.0	47.3	97	93	42-147	14	20	
1,1-Dichloropropene	ug/kg	ND	42.1	50.7	38.8	46.1	92	91	29-129	17	20	
1,2,3-Trichlorobenzene	ug/kg	ND	42.1	50.7	20.7	23.4	49	46	10-91	13	20	
1,2,3-Trichloropropane	ug/kg	ND	42.1	50.7	42.0	53.7	100	106	10-99	24	20	L3,M0
1,2,4-Trichlorobenzene	ug/kg	ND	42.1	50.7	21.4	24.2	51	48	10-88	12	20	
1,2,4-Trimethylbenzene	ug/kg	ND	42.1	50.7	34.5	40.0	82	79	10-109	15	20	
1,2-Dibromoethane (EDB)	ug/kg	ND	42.1	50.7	33.5	40.8	80	81	10-119	20	20	
1,2-Dichlorobenzene	ug/kg	ND	42.1	50.7	28.9	33.9	69	67	10-104	16	20	
1,2-Dichloroethane	ug/kg	ND	42.1	50.7	37.1	44.3	88	87	19-126	18	20	
1,2-Dichloropropane	ug/kg	ND	42.1	50.7	37.7	45.4	90	89	24-123	18	20	
1,3,5-Trimethylbenzene	ug/kg	ND	42.1	50.7	35.2	40.7	84	80	10-118	14	20	
1,3-Dichlorobenzene	ug/kg	ND	42.1	50.7	28.9	34.0	69	67	10-108	16	20	
1,3-Dichloropropane	ug/kg	ND	42.1	50.7	35.6	42.9	85	85	12-121	19	20	
1,4-Dichlorobenzene	ug/kg	ND	42.1	50.7	27.5	31.8	65	63	10-104	15	20	
2,2-Dichloropropane	ug/kg	ND	42.1	50.7	30.0	38.3	71	76	32-124	24	20	
2-Butanone (MEK)	ug/kg	ND	211	253	168	208	80	82	10-183	21	20	
2-Chlorotoluene	ug/kg	ND	42.1	50.7	33.3	39.2	79	77	10-128	16	20	
2-Hexanone	ug/kg	ND	211	253	169	213	80	84	10-158	23	20	
4-Chlorotoluene	ug/kg	ND	42.1	50.7	33.1	38.2	79	75	10-119	14	20	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	211	253	185	228	88	90	12-130	21	20	
Acetone	ug/kg	ND	211	253	153	205	62	72	10-200	29	20	
Acrolein	ug/kg	ND	841	1010	1180	1310	140	129	10-200	11	20	
Acrylonitrile	ug/kg	ND	841	1010	724	878	86	87	19-130	19	20	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5055726

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 663893 663894

Parameter	Units	5055805016 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	42.1	50.7	36.5	43.3	87	85	23-138	17	20	
Bromobenzene	ug/kg	ND	42.1	50.7	32.3	38.6	77	76	10-111	18	20	
Bromochloromethane	ug/kg	ND	42.1	50.7	37.7	43.5	90	86	26-126	14	20	
Bromodichloromethane	ug/kg	ND	42.1	50.7	30.8	38.8	73	76	10-120	23	20	
Bromoform	ug/kg	ND	42.1	50.7	25.3	34.0	60	67	10-106	29	20	
Bromomethane	ug/kg	ND	42.1	50.7	54.7	48.5	130	96	10-190	12	20	
Carbon disulfide	ug/kg	ND	84.1	101	81.7	96.7	97	95	31-128	17	20	
Carbon tetrachloride	ug/kg	ND	42.1	50.7	29.8	38.4	71	76	26-126	25	20	
Chlorobenzene	ug/kg	ND	42.1	50.7	35.7	42.5	85	84	10-120	18	20	
Chloroethane	ug/kg	ND	42.1	50.7	45.8	51.2	109	101	18-186	11	20	
Chloroform	ug/kg	ND	42.1	50.7	37.6	44.1	89	87	29-126	16	20	
Chloromethane	ug/kg	ND	42.1	50.7	42.1	52.3	100	103	34-131	22	20	
cis-1,2-Dichloroethene	ug/kg	ND	42.1	50.7	36.6	43.8	87	86	28-132	18	20	
cis-1,3-Dichloropropene	ug/kg	ND	42.1	50.7	26.2	32.9	62	65	10-108	23	20	
Dibromochloromethane	ug/kg	ND	42.1	50.7	26.5	34.8	63	69	10-108	27	20	
Dibromomethane	ug/kg	ND	42.1	50.7	36.7	43.3	87	85	13-122	16	20	
Dichlorodifluoromethane	ug/kg	ND	42.1	50.7	38.1	45.5	90	90	10-197	18	20	
Ethyl methacrylate	ug/kg	ND	168	203	107	128	64	63	10-130	18	20	
Ethylbenzene	ug/kg	ND	42.1	50.7	37.0	43.4	88	86	10-135	16	20	
Hexachloro-1,3-butadiene	ug/kg	ND	42.1	50.7	32.8	35.0	78	69	10-105	6	20	
Iodomethane	ug/kg	ND	84.1	101	55.8J	75.5J	66	74	10-163		20	
Isopropylbenzene (Cumene)	ug/kg	ND	42.1	50.7	39.1	46.1	93	91	10-121	17	20	
Methyl-tert-butyl ether	ug/kg	ND	84.1	101	74.2	89.1	88	88	20-140	18	20	
Methylene Chloride	ug/kg	ND	42.1	50.7	32.9	38.3	57	58	28-131	15	20	
n-Butylbenzene	ug/kg	ND	42.1	50.7	33.5	38.3	80	76	10-110	14	20	
n-Hexane	ug/kg	ND	42.1	50.7	34.4	41.1	82	81	21-150	18	20	
n-Propylbenzene	ug/kg	ND	42.1	50.7	35.9	41.7	85	82	10-123	15	20	
Naphthalene	ug/kg	ND	42.1	50.7	20.4	24.7	49	49	10-106	19	20	
p-Isopropyltoluene	ug/kg	ND	42.1	50.7	36.6	42.5	87	84	10-117	15	20	
sec-Butylbenzene	ug/kg	ND	42.1	50.7	37.6	43.8	90	86	10-123	15	20	
Styrene	ug/kg	ND	42.1	50.7	32.9	37.9	78	75	10-119	14	20	
tert-Butylbenzene	ug/kg	ND	42.1	50.7	30.9	36.7	73	72	10-105	17	20	
Tetrachloroethene	ug/kg	ND	42.1	50.7	38.9	45.5	93	90	10-122	16	20	
Toluene	ug/kg	ND	42.1	50.7	35.5	42.0	82	81	10-131	17	20	
trans-1,2-Dichloroethene	ug/kg	ND	42.1	50.7	37.8	44.4	90	88	32-136	16	20	
trans-1,3-Dichloropropene	ug/kg	ND	42.1	50.7	26.2	32.9	62	65	10-101	23	20	
trans-1,4-Dichloro-2-butene	ug/kg	ND	168	203	100	129	60	63	10-104	25	20	
Trichloroethene	ug/kg	ND	42.1	50.7	37.0	43.7	88	86	15-133	17	20	
Trichlorofluoromethane	ug/kg	ND	42.1	50.7	47.3	55.5	112	109	37-152	16	20	
Vinyl acetate	ug/kg	ND	168	203	ND	ND	17	6	10-103		20	
Vinyl chloride	ug/kg	ND	42.1	50.7	44.6	52.2	106	103	41-147	16	20	
Xylene (Total)	ug/kg	ND	126	152	107	125	85	82	10-131	16	20	
4-Bromofluorobenzene (S)	%.						101	100	67-134		20	
Dibromofluoromethane (S)	%.						103	102	71-125		20	2d
Toluene-d8 (S)	%.						100	99	76-124		20	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5055726

QC Batch: MSV/38249 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 5055726010, 5055726011, 5055726012, 5055726014

METHOD BLANK: 664084 Matrix: Solid
Associated Lab Samples: 5055726010, 5055726011, 5055726012, 5055726014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	12/21/11 00:41	
1,1,1-Trichloroethane	ug/kg	ND	5.0	12/21/11 00:41	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	12/21/11 00:41	
1,1,2-Trichloroethane	ug/kg	ND	5.0	12/21/11 00:41	
1,1-Dichloroethane	ug/kg	ND	5.0	12/21/11 00:41	
1,1-Dichloroethene	ug/kg	ND	5.0	12/21/11 00:41	
1,1-Dichloropropene	ug/kg	ND	5.0	12/21/11 00:41	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	12/21/11 00:41	
1,2,3-Trichloropropane	ug/kg	ND	5.0	12/21/11 00:41	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	12/21/11 00:41	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	12/21/11 00:41	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	12/21/11 00:41	
1,2-Dichlorobenzene	ug/kg	ND	5.0	12/21/11 00:41	
1,2-Dichloroethane	ug/kg	ND	5.0	12/21/11 00:41	
1,2-Dichloropropane	ug/kg	ND	5.0	12/21/11 00:41	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	12/21/11 00:41	
1,3-Dichlorobenzene	ug/kg	ND	5.0	12/21/11 00:41	
1,3-Dichloropropane	ug/kg	ND	5.0	12/21/11 00:41	
1,4-Dichlorobenzene	ug/kg	ND	5.0	12/21/11 00:41	
2,2-Dichloropropane	ug/kg	ND	5.0	12/21/11 00:41	
2-Butanone (MEK)	ug/kg	ND	25.0	12/21/11 00:41	
2-Chlorotoluene	ug/kg	ND	5.0	12/21/11 00:41	
2-Hexanone	ug/kg	ND	100	12/21/11 00:41	
4-Chlorotoluene	ug/kg	ND	5.0	12/21/11 00:41	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	12/21/11 00:41	
Acetone	ug/kg	ND	100	12/21/11 00:41	
Acrolein	ug/kg	ND	100	12/21/11 00:41	
Acrylonitrile	ug/kg	ND	100	12/21/11 00:41	
Benzene	ug/kg	ND	5.0	12/21/11 00:41	
Bromobenzene	ug/kg	ND	5.0	12/21/11 00:41	
Bromochloromethane	ug/kg	ND	5.0	12/21/11 00:41	
Bromodichloromethane	ug/kg	ND	5.0	12/21/11 00:41	
Bromoform	ug/kg	ND	5.0	12/21/11 00:41	
Bromomethane	ug/kg	ND	5.0	12/21/11 00:41	
Carbon disulfide	ug/kg	ND	10.0	12/21/11 00:41	
Carbon tetrachloride	ug/kg	ND	5.0	12/21/11 00:41	
Chlorobenzene	ug/kg	ND	5.0	12/21/11 00:41	
Chloroethane	ug/kg	ND	5.0	12/21/11 00:41	
Chloroform	ug/kg	ND	5.0	12/21/11 00:41	
Chloromethane	ug/kg	ND	5.0	12/21/11 00:41	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	12/21/11 00:41	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	12/21/11 00:41	
Dibromochloromethane	ug/kg	ND	5.0	12/21/11 00:41	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5055726

METHOD BLANK: 664084 Matrix: Solid

Associated Lab Samples: 5055726010, 5055726011, 5055726012, 5055726014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	5.0	12/21/11 00:41	
Dichlorodifluoromethane	ug/kg	ND	5.0	12/21/11 00:41	
Ethyl methacrylate	ug/kg	ND	100	12/21/11 00:41	
Ethylbenzene	ug/kg	ND	5.0	12/21/11 00:41	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	12/21/11 00:41	
Iodomethane	ug/kg	ND	100	12/21/11 00:41	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	12/21/11 00:41	
Methyl-tert-butyl ether	ug/kg	ND	5.0	12/21/11 00:41	
Methylene Chloride	ug/kg	ND	20.0	12/21/11 00:41	
n-Butylbenzene	ug/kg	ND	5.0	12/21/11 00:41	
n-Hexane	ug/kg	ND	5.0	12/21/11 00:41	
n-Propylbenzene	ug/kg	ND	5.0	12/21/11 00:41	
Naphthalene	ug/kg	ND	5.0	12/21/11 00:41	
p-Isopropyltoluene	ug/kg	ND	5.0	12/21/11 00:41	
sec-Butylbenzene	ug/kg	ND	5.0	12/21/11 00:41	
Styrene	ug/kg	ND	5.0	12/21/11 00:41	
tert-Butylbenzene	ug/kg	ND	5.0	12/21/11 00:41	
Tetrachloroethene	ug/kg	ND	5.0	12/21/11 00:41	
Toluene	ug/kg	ND	5.0	12/21/11 00:41	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	12/21/11 00:41	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	12/21/11 00:41	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	12/21/11 00:41	
Trichloroethene	ug/kg	ND	5.0	12/21/11 00:41	
Trichlorofluoromethane	ug/kg	ND	5.0	12/21/11 00:41	
Vinyl acetate	ug/kg	ND	100	12/21/11 00:41	
Vinyl chloride	ug/kg	ND	5.0	12/21/11 00:41	
Xylene (Total)	ug/kg	ND	10.0	12/21/11 00:41	
4-Bromofluorobenzene (S)	%.	98	67-134	12/21/11 00:41	
Dibromofluoromethane (S)	%.	98	71-125	12/21/11 00:41	
Toluene-d8 (S)	%.	99	76-124	12/21/11 00:41	

LABORATORY CONTROL SAMPLE: 664085

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	46.5	93	70-130	
1,1,1-Trichloroethane	ug/kg	50	48.0	96	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	50	50.7	101	70-130	
1,1,2-Trichloroethane	ug/kg	50	50.5	101	70-130	
1,1-Dichloroethane	ug/kg	50	49.9	100	70-130	
1,1-Dichloroethene	ug/kg	50	48.3	97	70-130	
1,1-Dichloropropene	ug/kg	50	47.9	96	70-130	
1,2,3-Trichlorobenzene	ug/kg	50	48.3	97	70-130	
1,2,3-Trichloropropane	ug/kg	50	67.3	135	70-130	L3
1,2,4-Trichlorobenzene	ug/kg	50	46.1	92	70-130	
1,2,4-Trimethylbenzene	ug/kg	50	49.0	98	70-130	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5055726

LABORATORY CONTROL SAMPLE: 664085

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/kg	50	47.5	95	70-130	
1,2-Dichlorobenzene	ug/kg	50	49.3	99	70-130	
1,2-Dichloroethane	ug/kg	50	49.3	99	70-130	
1,2-Dichloropropane	ug/kg	50	48.7	97	70-130	
1,3,5-Trimethylbenzene	ug/kg	50	49.0	98	70-130	
1,3-Dichlorobenzene	ug/kg	50	47.9	96	70-130	
1,3-Dichloropropane	ug/kg	50	47.8	96	70-130	
1,4-Dichlorobenzene	ug/kg	50	46.2	92	70-130	
2,2-Dichloropropane	ug/kg	50	42.9	86	40-160	
2-Butanone (MEK)	ug/kg	250	220	88	40-160	
2-Chlorotoluene	ug/kg	50	47.6	95	70-130	
2-Hexanone	ug/kg	250	233	93	40-160	
4-Chlorotoluene	ug/kg	50	49.2	98	70-130	
4-Methyl-2-pentanone (MIBK)	ug/kg	250	240	96	70-130	
Acetone	ug/kg	250	186	75	40-160	
Acrolein	ug/kg	1000	1630	163	40-160	L3
Acrylonitrile	ug/kg	1000	997	100	70-130	
Benzene	ug/kg	50	46.4	93	70-130	
Bromobenzene	ug/kg	50	57.2	114	70-130	
Bromochloromethane	ug/kg	50	49.2	98	70-130	
Bromodichloromethane	ug/kg	50	45.2	90	70-130	
Bromoform	ug/kg	50	44.3	89	70-130	
Bromomethane	ug/kg	50	59.0	118	40-160	
Carbon disulfide	ug/kg	100	100	100	40-160	
Carbon tetrachloride	ug/kg	50	43.7	87	70-130	
Chlorobenzene	ug/kg	50	50.3	101	70-130	
Chloroethane	ug/kg	50	54.1	108	70-130	
Chloroform	ug/kg	50	47.5	95	70-130	
Chloromethane	ug/kg	50	48.0	96	70-130	
cis-1,2-Dichloroethene	ug/kg	50	46.5	93	70-130	
cis-1,3-Dichloropropene	ug/kg	50	41.8	84	70-130	
Dibromochloromethane	ug/kg	50	42.6	85	70-130	
Dibromomethane	ug/kg	50	48.5	97	70-130	
Dichlorodifluoromethane	ug/kg	50	44.8	90	70-130	
Ethyl methacrylate	ug/kg	200	185	93	40-160	
Ethylbenzene	ug/kg	50	48.2	96	70-130	
Hexachloro-1,3-butadiene	ug/kg	50	46.7	93	70-130	
Iodomethane	ug/kg	100	95.9J	96	70-130	
Isopropylbenzene (Cumene)	ug/kg	50	50.9	102	70-130	
Methyl-tert-butyl ether	ug/kg	100	98.7	99	40-160	
Methylene Chloride	ug/kg	50	43.6	87	70-130	
n-Butylbenzene	ug/kg	50	46.8	94	70-130	
n-Hexane	ug/kg	50	41.3	83	70-130	
n-Propylbenzene	ug/kg	50	47.6	95	70-130	
Naphthalene	ug/kg	50	49.1	98	70-130	
p-Isopropyltoluene	ug/kg	50	49.5	99	70-130	
sec-Butylbenzene	ug/kg	50	49.5	99	70-130	
Styrene	ug/kg	50	50.5	101	70-130	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5055726

LABORATORY CONTROL SAMPLE: 664085

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/kg	50	40.4	81	70-130	
Tetrachloroethene	ug/kg	50	49.2	98	70-130	
Toluene	ug/kg	50	45.2	90	70-130	
trans-1,2-Dichloroethene	ug/kg	50	46.6	93	70-130	
trans-1,3-Dichloropropene	ug/kg	50	41.8	84	70-130	
trans-1,4-Dichloro-2-butene	ug/kg	200	166	83	70-130	
Trichloroethene	ug/kg	50	47.2	94	70-130	
Trichlorofluoromethane	ug/kg	50	56.1	112	70-130	
Vinyl acetate	ug/kg	200	151	75	40-160	
Vinyl chloride	ug/kg	50	52.1	104	70-130	
Xylene (Total)	ug/kg	150	141	94	70-130	
4-Bromofluorobenzene (S)	%.			99	70-130	
Dibromofluoromethane (S)	%.			101	70-130	
Toluene-d8 (S)	%.			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 664086 664087

Parameter	Units	5055709001 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	40.2	37.6	22.5	20.8	56	55	10-111	8	20	
1,1,1-Trichloroethane	ug/kg	ND	40.2	37.6	27.1	26.2	67	70	36-128	3	20	
1,1,2,2-Tetrachloroethane	ug/kg	ND	40.2	37.6	22.0	21.0	55	56	10-130	5	20	
1,1,2-Trichloroethane	ug/kg	ND	40.2	37.6	23.4	23.1	58	61	10-126	1	20	
1,1-Dichloroethane	ug/kg	ND	40.2	37.6	27.7	27.2	69	72	39-126	2	20	
1,1-Dichloroethene	ug/kg	ND	40.2	37.6	27.6	27.2	69	72	42-147	1	20	
1,1-Dichloropropene	ug/kg	ND	40.2	37.6	24.5	22.2	61	59	29-129	10	20	
1,2,3-Trichlorobenzene	ug/kg	ND	40.2	37.6	11.5	8.3	28	22	10-91	32	20	R1
1,2,3-Trichloropropane	ug/kg	ND	40.2	37.6	24.1	22.8	60	61	10-99	5	20	
1,2,4-Trichlorobenzene	ug/kg	ND	40.2	37.6	11.0	8.6	27	23	10-88	24	20	R1
1,2,4-Trimethylbenzene	ug/kg	ND	40.2	37.6	21.2	19.0	53	51	10-109	11	20	
1,2-Dibromoethane (EDB)	ug/kg	ND	40.2	37.6	19.0	17.9	47	47	10-119	6	20	
1,2-Dichlorobenzene	ug/kg	ND	40.2	37.6	16.8	13.7	42	36	10-104	20	20	
1,2-Dichloroethane	ug/kg	ND	40.2	37.6	24.4	24.5	61	65	19-126	.4	20	
1,2-Dichloropropane	ug/kg	ND	40.2	37.6	25.3	24.1	63	64	24-123	5	20	
1,3,5-Trimethylbenzene	ug/kg	ND	40.2	37.6	21.8	20.1	54	53	10-118	8	20	
1,3-Dichlorobenzene	ug/kg	ND	40.2	37.6	16.1	13.7	40	36	10-108	16	20	
1,3-Dichloropropane	ug/kg	ND	40.2	37.6	20.7	19.9	51	53	12-121	4	20	
1,4-Dichlorobenzene	ug/kg	ND	40.2	37.6	15.2	12.5	38	33	10-104	19	20	
2,2-Dichloropropane	ug/kg	ND	40.2	37.6	24.9	24.6	62	65	32-124	1	20	
2-Butanone (MEK)	ug/kg	ND	201	188	163	175	81	93	10-183	7	20	
2-Chlorotoluene	ug/kg	ND	40.2	37.6	20.2	18.1	50	48	10-128	11	20	
2-Hexanone	ug/kg	ND	201	188	138	142	68	75	10-158	3	20	
4-Chlorotoluene	ug/kg	ND	40.2	37.6	18.4	16.1	46	43	10-119	13	20	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	201	188	132	141	66	75	12-130	6	20	
Acetone	ug/kg	ND	201	188	171	176	85	93	10-200	2	20	
Acrolein	ug/kg	ND	806	753	903	1010	112	134	10-200	11	20	
Acrylonitrile	ug/kg	ND	806	753	567	611	70	81	19-130	7	20	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5055726

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 664086 664087

Parameter	Units	5055709001 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	40.2	37.6	24.5	23.4	61	62	23-138	5	20	
Bromobenzene	ug/kg	ND	40.2	37.6	18.1	15.6	45	41	10-111	15	20	
Bromochloromethane	ug/kg	ND	40.2	37.6	25.4	26.1	63	69	26-126	3	20	
Bromodichloromethane	ug/kg	ND	40.2	37.6	20.5	18.6	51	49	10-120	10	20	
Bromoform	ug/kg	ND	40.2	37.6	18.8	16.7	47	44	10-106	12	20	
Bromomethane	ug/kg	ND	40.2	37.6	35.1	34.4	87	91	10-190	2	20	
Carbon disulfide	ug/kg	ND	80.6	75.3	54.1	52.5	67	70	31-128	3	20	
Carbon tetrachloride	ug/kg	ND	40.2	37.6	22.5	20.1	56	53	26-126	11	20	
Chlorobenzene	ug/kg	ND	40.2	37.6	20.7	18.6	51	49	10-120	10	20	
Chloroethane	ug/kg	ND	40.2	37.6	32.4	32.9	80	87	18-186	2	20	
Chloroform	ug/kg	ND	40.2	37.6	25.7	25.7	64	68	29-126	.05	20	
Chloromethane	ug/kg	ND	40.2	37.6	31.2	32.0	77	85	34-131	3	20	
cis-1,2-Dichloroethene	ug/kg	ND	40.2	37.6	24.6	23.5	61	62	28-132	5	20	
cis-1,3-Dichloropropene	ug/kg	ND	40.2	37.6	16.7	15.0	42	40	10-108	11	20	
Dibromochloromethane	ug/kg	ND	40.2	37.6	18.2	16.1	45	43	10-108	12	20	
Dibromomethane	ug/kg	ND	40.2	37.6	23.0	22.5	57	60	13-122	2	20	
Dichlorodifluoromethane	ug/kg	ND	40.2	37.6	28.7	28.5	71	76	10-197	.6	20	
Ethyl methacrylate	ug/kg	ND	162	151	77.3J	83.4	48	55	10-130		20	
Ethylbenzene	ug/kg	ND	40.2	37.6	22.2	19.7	55	52	10-135	12	20	
Hexachloro-1,3-butadiene	ug/kg	ND	40.2	37.6	18.5	16.6	46	44	10-105	11	20	
Iodomethane	ug/kg	ND	80.6	75.3	41.2J	40.3J	51	53	10-163		20	
Isopropylbenzene (Cumene)	ug/kg	ND	40.2	37.6	24.4	22.2	60	59	10-121	10	20	
Methyl-tert-butyl ether	ug/kg	ND	80.6	75.3	60.0	63.8	74	85	20-140	6	20	
Methylene Chloride	ug/kg	ND	40.2	37.6	23.5	23.8	58	63	28-131	1	20	
n-Butylbenzene	ug/kg	ND	40.2	37.6	17.4	15.7	43	42	10-110	11	20	
n-Hexane	ug/kg	ND	40.2	37.6	18.4	15.9	46	42	21-150	15	20	
n-Propylbenzene	ug/kg	ND	40.2	37.6	21.3	19.1	53	51	10-123	10	20	
Naphthalene	ug/kg	ND	40.2	37.6	13.0	9.8	32	26	10-106	28	20	R1
p-Isopropyltoluene	ug/kg	ND	40.2	37.6	21.7	19.6	54	52	10-117	10	20	
sec-Butylbenzene	ug/kg	ND	40.2	37.6	23.0	21.1	57	56	10-123	8	20	
Styrene	ug/kg	ND	40.2	37.6	19.8	17.2	49	46	10-119	14	20	
tert-Butylbenzene	ug/kg	ND	40.2	37.6	23.2	19.8	58	53	10-105	16	20	
Tetrachloroethene	ug/kg	ND	40.2	37.6	22.9	20.4	57	54	10-122	11	20	
Toluene	ug/kg	ND	40.2	37.6	22.0	19.9	55	53	10-131	10	20	
trans-1,2-Dichloroethene	ug/kg	ND	40.2	37.6	25.0	24.9	62	66	32-136	.6	20	
trans-1,3-Dichloropropene	ug/kg	ND	40.2	37.6	16.7	15.0	42	40	10-101	11	20	
trans-1,4-Dichloro-2-butene	ug/kg	ND	162	151	52.9J	45.2J	33	30	10-104		20	
Trichloroethene	ug/kg	ND	40.2	37.6	23.5	21.2	58	56	15-133	10	20	
Trichlorofluoromethane	ug/kg	ND	40.2	37.6	33.0	32.0	82	85	37-152	3	20	
Vinyl acetate	ug/kg	ND	162	151	ND	67.6J	18	45	10-103		20	
Vinyl chloride	ug/kg	ND	40.2	37.6	33.0	33.3	82	89	41-147	1	20	
Xylene (Total)	ug/kg	ND	121	113	65.0	58.2	54	52	10-131	11	20	
4-Bromofluorobenzene (S)	%.						100	99	67-134		20	
Dibromofluoromethane (S)	%.						100	101	71-125		20	
Toluene-d8 (S)	%.						101	100	76-124		20	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5055726

QC Batch: PMST/6557 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 5055726009, 5055726010, 5055726011, 5055726012, 5055726014

SAMPLE DUPLICATE: 659970

Parameter	Units	5055724019 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	19.2	18.6	3	5	

SAMPLE DUPLICATE: 659971

Parameter	Units	5055716006 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	11.7	11.4	3	5	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5055726

QC Batch: WET/10561 Analysis Method: Walkley Black
QC Batch Method: Walkley Black Analysis Description: Organic Carbon Walkley Black
Associated Lab Samples: 5055726001, 5055726002, 5055726005, 5055726006, 5055726013

METHOD BLANK: 546103 Matrix: Solid
Associated Lab Samples: 5055726001, 5055726002, 5055726005, 5055726006, 5055726013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/kg	ND	400	12/16/11 15:27	

LABORATORY CONTROL SAMPLE: 546104

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/kg	16000	16800	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 546105 546106

Parameter	Units	5055617001 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	1450	15900	15900	18200	18600	105	108	80-120	2	20	

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Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALIFIERS

Project: MI Plaza M01046
Pace Project No.: 5055726

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.

LABORATORIES

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

ANALYTE QUALIFIERS

1d	Acetone presence is due to vial contamination from the 5035 sampling kit vendor.
2d	Several compounds are outside of the acceptance limits for RPD value. aa 12/21/11
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.
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.
R1	RPD value was outside control limits.

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(317)875-5894

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MI Plaza M01046
Pace Project No.: 5055726

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5055726003	**GP-22 34'**	EPA 8260	MSV/38061		
5055726004	**GP-22 24'**	EPA 8260	MSV/38061		
5055726007	**GP-23 37'**	EPA 8260	MSV/38061		
5055726008	**GP-23 27'**	EPA 8260	MSV/38061		
5055726009	**GP-22 18-20'**	EPA 8260	MSV/38242		
5055726010	**GP-22 36-38'**	EPA 8260	MSV/38249		
5055726011	**GP-23 17-19'**	EPA 8260	MSV/38249		
5055726012	**GP-23 39-40'**	EPA 8260	MSV/38249		
5055726014	**GP-27 17-19'**	EPA 8260	MSV/38249		
5055726009	**GP-22 18-20'**	ASTM D2974-87	PMST/6557		
5055726010	**GP-22 36-38'**	ASTM D2974-87	PMST/6557		
5055726011	**GP-23 17-19'**	ASTM D2974-87	PMST/6557		
5055726012	**GP-23 39-40'**	ASTM D2974-87	PMST/6557		
5055726014	**GP-27 17-19'**	ASTM D2974-87	PMST/6557		
5055726001	**GP-22 18-20'**	Walkley Black	WET/10561		
5055726002	**GP-22 36-38'**	Walkley Black	WET/10561		
5055726005	**GP-23 17-19'**	Walkley Black	WET/10561		
5055726006	**GP-23 39-40'**	Walkley Black	WET/10561		
5055726013	**GP-27 17-19'**	Walkley Black	WET/10561		

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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.

✓ TMS ✓pm

Page: 1 of 2

1514890

Section A Required Client Information:

Company: Mundell & Associates
Address: 40 S. Downey Ave Indpls, IN
Email To:
Phone: 317-636-9400 Fax:
Requested Due Date/TAT: STT

Section B Required Project Information:

Report To: Sarah Webb
Copy To:
Purchase Order No.:
Project Name: MI Plaza
Project Number: M010116

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)

5055726

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: Toc Walkley Black	VOCs 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	GP-22 18-20'	SL	G			12-8-11	10:00A		1	1								X			001
2	GP-22 36-38'	SL	G				10:15A		1	1								X			2
3	GP-22 34'	WT	G				10:20A		3	3									X		3
4	GP-22 24'	WT	G				10:25A		3	3									X		4
5	GP-23 17-19'	SL	G				13:47		1	1								X			5
6	GP-23 39-40'	SL	G				13:43		1	1								X			6
7	GP-23 31'	WT	G				14:08		3	3									X		7
8	GP-23 27'	WT	G				14:15		3	3									X		8
9	GP-22 18-20'	SL	G				10:00A		TC										X		9
10	GP-22 36-38'	SL	G				10:15A		TC										X		10
11	GP-23 17-19'	SL	G				13:47		TC										X		11
12	GP-23 39-40'	SL	G				13:43		TC										X		12

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
VOCs are not preserved		12-9-11	11:30		12/9/11	11:30	1.9°C	Y	N	Y

ORIGINAL

WI/Pace Lee 12-9-11
1234

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Andy Dammeyer
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 12-8-11

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.

Page: 2 of 2

1514889

Section A Required Client Information:

Company:	Mundell & Assoc
Address:	110 S. Downey ave Indpls, IN
Email To:	
Phone:	317-636-9060
Fax:	
Requested Due Date/TAT:	SAT

Section B Required Project Information:

Report To:	Sarah Webb
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: _____

5055726

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	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)	~~Wet~~ TOC Walkley Black	VOCs 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	GP-27 (17-18')	SL	G			12-8-11	1635		1	1									X			13
2	GP-27 (17-18')	SL	G			12-8-11	1635		TC											X		14
3																						
4																						
5																						
6																						
7																						
8																						
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)
	[signature]	12-9-11	11:30	[signature]	12/9/11	11:30	1.98	Y	N	Y

ORIGINAL

WI Pace
Kee 12-9-11
1234

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Andy Dammeyer

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 12-8-11

*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 # 5055724

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: 12-9-11 1254

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other 2 ziplocks + T.C. Kits

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): 1.9°C Ice Visible in Sample Containers: ☐ yes ☒ no

Temp should be above freezing to 6°C

Date and Initials of person examining contents: Kee 12-9-11

			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. T.C. Kits
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 Kee 12-9-11	☒Yes	☒No ☐N/A	8. Pg. 2 COC sample IDs are GP-27 (17-18') but all sample containers say GP-27 17-19'
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. all 3 VOA vials for GP-23 (34'), GP-22 (24') + GP-23 (27')
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: Sarah Webb Date/Time: 12/12/11 1117am

Comments/ Resolution: Use GP 27 @ 17-19'

12/12/11 TMS

Project Manager Review: _____ **Date:** 12/9/11

Sample Container Count

CLIENT: Mundell

COC PAGE 1 of 2
COC ID# 1514890

Project # _____

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

Sample Container Count

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CLIENT: Mundell

COC PAGE 2 of 2
COC ID# 1514889

Project # _____

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

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

December 14, 2011

Ms. Sarah Webb
Mundell & Associates
110 South Downey Ave.
Indianapolis, IN 46219

RE: Project: Michigan Plaza M01046
Pace Project No.: 5055737

Dear Ms. Webb:
Enclosed are the analytical results for sample(s) received by the laboratory on December 09, 2011. 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@pacelabs.com
Project Manager

Illinois Certification #: 100418
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana/NELAC Certification #: 04076
Ohio VAP: CL0065
West Virginia Certification #: 330

Enclosures

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SAMPLE SUMMARY

Project: Michigan Plaza M01046
Pace Project No.: 5055737

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5055737001	**GP-26 18-20**	Solid	12/09/11 13:00	12/09/11 16:19
5055737002	**GP-25 18-20**	Solid	12/09/11 11:00	12/09/11 16:19
5055737003	**GP-28 17-19**	Solid	12/09/11 16:00	12/09/11 16:19

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SAMPLE ANALYTE COUNT

Project: Michigan Plaza M01046
Pace Project No.: 5055737

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5055737001	**GP-26 18-20**	EPA 8260	SLB	73
		ASTM D2974-87	CTW	1
5055737002	**GP-25 18-20**	EPA 8260	SLB	73
		ASTM D2974-87	CTW	1
5055737003	**GP-28 17-19**	EPA 8260	SLB	73
		ASTM D2974-87	CTW	1

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055737

Sample: GP-26 18-20 **Lab ID: 5055737001** Collected: 12/09/11 13:00 Received: 12/09/11 16:19 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	86.9	1		12/12/11 09:31	67-64-1	
Acrolein	ND	ug/kg	86.9	1		12/12/11 09:31	107-02-8	
Acrylonitrile	ND	ug/kg	86.9	1		12/12/11 09:31	107-13-1	
Benzene	ND	ug/kg	4.3	1		12/12/11 09:31	71-43-2	
Bromobenzene	ND	ug/kg	4.3	1		12/12/11 09:31	108-86-1	
Bromochloromethane	ND	ug/kg	4.3	1		12/12/11 09:31	74-97-5	
Bromodichloromethane	ND	ug/kg	4.3	1		12/12/11 09:31	75-27-4	
Bromoform	ND	ug/kg	4.3	1		12/12/11 09:31	75-25-2	
Bromomethane	ND	ug/kg	4.3	1		12/12/11 09:31	74-83-9	
2-Butanone (MEK)	ND	ug/kg	21.7	1		12/12/11 09:31	78-93-3	
n-Butylbenzene	ND	ug/kg	4.3	1		12/12/11 09:31	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.3	1		12/12/11 09:31	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.3	1		12/12/11 09:31	98-06-6	
Carbon disulfide	ND	ug/kg	8.7	1		12/12/11 09:31	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.3	1		12/12/11 09:31	56-23-5	
Chlorobenzene	ND	ug/kg	4.3	1		12/12/11 09:31	108-90-7	
Chloroethane	ND	ug/kg	4.3	1		12/12/11 09:31	75-00-3	
Chloroform	ND	ug/kg	4.3	1		12/12/11 09:31	67-66-3	
Chloromethane	ND	ug/kg	4.3	1		12/12/11 09:31	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.3	1		12/12/11 09:31	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.3	1		12/12/11 09:31	106-43-4	
Dibromochloromethane	ND	ug/kg	4.3	1		12/12/11 09:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.3	1		12/12/11 09:31	106-93-4	
Dibromomethane	ND	ug/kg	4.3	1		12/12/11 09:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.3	1		12/12/11 09:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.3	1		12/12/11 09:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.3	1		12/12/11 09:31	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	86.9	1		12/12/11 09:31	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.3	1		12/12/11 09:31	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.3	1		12/12/11 09:31	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.3	1		12/12/11 09:31	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.3	1		12/12/11 09:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.3	1		12/12/11 09:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.3	1		12/12/11 09:31	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.3	1		12/12/11 09:31	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.3	1		12/12/11 09:31	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.3	1		12/12/11 09:31	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.3	1		12/12/11 09:31	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.3	1		12/12/11 09:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.3	1		12/12/11 09:31	10061-02-6	
Ethylbenzene	ND	ug/kg	4.3	1		12/12/11 09:31	100-41-4	
Ethyl methacrylate	ND	ug/kg	86.9	1		12/12/11 09:31	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.3	1		12/12/11 09:31	87-68-3	
n-Hexane	ND	ug/kg	4.3	1		12/12/11 09:31	110-54-3	N2
2-Hexanone	ND	ug/kg	86.9	1		12/12/11 09:31	591-78-6	
Iodomethane	ND	ug/kg	86.9	1		12/12/11 09:31	74-88-4	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055737

Sample: GP-26 18-20 **Lab ID: 5055737001** Collected: 12/09/11 13:00 Received: 12/09/11 16:19 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		12/12/11 09:31	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.3	1		12/12/11 09:31	99-87-6	
Methylene Chloride	ND	ug/kg	17.4	1		12/12/11 09:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	21.7	1		12/12/11 09:31	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.3	1		12/12/11 09:31	1634-04-4	
Naphthalene	ND	ug/kg	4.3	1		12/12/11 09:31	91-20-3	
n-Propylbenzene	ND	ug/kg	4.3	1		12/12/11 09:31	103-65-1	
Styrene	ND	ug/kg	4.3	1		12/12/11 09:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.3	1		12/12/11 09:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.3	1		12/12/11 09:31	79-34-5	
Tetrachloroethene	ND	ug/kg	4.3	1		12/12/11 09:31	127-18-4	
Toluene	ND	ug/kg	4.3	1		12/12/11 09:31	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.3	1		12/12/11 09:31	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.3	1		12/12/11 09:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.3	1		12/12/11 09:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.3	1		12/12/11 09:31	79-00-5	
Trichloroethene	ND	ug/kg	4.3	1		12/12/11 09:31	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.3	1		12/12/11 09:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.3	1		12/12/11 09:31	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.3	1		12/12/11 09:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.3	1		12/12/11 09:31	108-67-8	
Vinyl acetate	ND	ug/kg	86.9	1		12/12/11 09:31	108-05-4	
Vinyl chloride	ND	ug/kg	4.3	1		12/12/11 09:31	75-01-4	
Xylene (Total)	ND	ug/kg	8.7	1		12/12/11 09:31	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	121	%	71-125	1		12/12/11 09:31	1868-53-7	
Toluene-d8 (S)	95	%	76-124	1		12/12/11 09:31	2037-26-5	
4-Bromofluorobenzene (S)	107	%	67-134	1		12/12/11 09:31	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**3.6**	%	0.10	1		12/10/11 08:07		

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055737

Sample: GP-25 18-20 **Lab ID: 5055737002** Collected: 12/09/11 11:00 Received: 12/09/11 16:19 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	81.5	1		12/12/11 16:12	67-64-1	
Acrolein	ND	ug/kg	81.5	1		12/12/11 16:12	107-02-8	
Acrylonitrile	ND	ug/kg	81.5	1		12/12/11 16:12	107-13-1	
Benzene	ND	ug/kg	4.1	1		12/12/11 16:12	71-43-2	
Bromobenzene	ND	ug/kg	4.1	1		12/12/11 16:12	108-86-1	
Bromochloromethane	ND	ug/kg	4.1	1		12/12/11 16:12	74-97-5	
Bromodichloromethane	ND	ug/kg	4.1	1		12/12/11 16:12	75-27-4	
Bromoform	ND	ug/kg	4.1	1		12/12/11 16:12	75-25-2	
Bromomethane	ND	ug/kg	4.1	1		12/12/11 16:12	74-83-9	
2-Butanone (MEK)	ND	ug/kg	20.4	1		12/12/11 16:12	78-93-3	
n-Butylbenzene	ND	ug/kg	4.1	1		12/12/11 16:12	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.1	1		12/12/11 16:12	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.1	1		12/12/11 16:12	98-06-6	
Carbon disulfide	ND	ug/kg	8.1	1		12/12/11 16:12	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.1	1		12/12/11 16:12	56-23-5	
Chlorobenzene	ND	ug/kg	4.1	1		12/12/11 16:12	108-90-7	
Chloroethane	ND	ug/kg	4.1	1		12/12/11 16:12	75-00-3	
Chloroform	ND	ug/kg	4.1	1		12/12/11 16:12	67-66-3	
Chloromethane	ND	ug/kg	4.1	1		12/12/11 16:12	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.1	1		12/12/11 16:12	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.1	1		12/12/11 16:12	106-43-4	
Dibromochloromethane	ND	ug/kg	4.1	1		12/12/11 16:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.1	1		12/12/11 16:12	106-93-4	
Dibromomethane	ND	ug/kg	4.1	1		12/12/11 16:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.1	1		12/12/11 16:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.1	1		12/12/11 16:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.1	1		12/12/11 16:12	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	81.5	1		12/12/11 16:12	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.1	1		12/12/11 16:12	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.1	1		12/12/11 16:12	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.1	1		12/12/11 16:12	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.1	1		12/12/11 16:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.1	1		12/12/11 16:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.1	1		12/12/11 16:12	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.1	1		12/12/11 16:12	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.1	1		12/12/11 16:12	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.1	1		12/12/11 16:12	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.1	1		12/12/11 16:12	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.1	1		12/12/11 16:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.1	1		12/12/11 16:12	10061-02-6	
Ethylbenzene	ND	ug/kg	4.1	1		12/12/11 16:12	100-41-4	
Ethyl methacrylate	ND	ug/kg	81.5	1		12/12/11 16:12	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.1	1		12/12/11 16:12	87-68-3	
n-Hexane	ND	ug/kg	4.1	1		12/12/11 16:12	110-54-3	N2
2-Hexanone	ND	ug/kg	81.5	1		12/12/11 16:12	591-78-6	
Iodomethane	ND	ug/kg	81.5	1		12/12/11 16:12	74-88-4	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055737

Sample: GP-25 18-20 **Lab ID: 5055737002** Collected: 12/09/11 11:00 Received: 12/09/11 16:19 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	4.1	1		12/12/11 16:12	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.1	1		12/12/11 16:12	99-87-6	
Methylene Chloride	ND	ug/kg	16.3	1		12/12/11 16:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	20.4	1		12/12/11 16:12	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.1	1		12/12/11 16:12	1634-04-4	
Naphthalene	ND	ug/kg	4.1	1		12/12/11 16:12	91-20-3	
n-Propylbenzene	ND	ug/kg	4.1	1		12/12/11 16:12	103-65-1	
Styrene	ND	ug/kg	4.1	1		12/12/11 16:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.1	1		12/12/11 16:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.1	1		12/12/11 16:12	79-34-5	
Tetrachloroethene	ND	ug/kg	4.1	1		12/12/11 16:12	127-18-4	
Toluene	ND	ug/kg	4.1	1		12/12/11 16:12	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.1	1		12/12/11 16:12	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.1	1		12/12/11 16:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.1	1		12/12/11 16:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.1	1		12/12/11 16:12	79-00-5	
Trichloroethene	ND	ug/kg	4.1	1		12/12/11 16:12	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.1	1		12/12/11 16:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.1	1		12/12/11 16:12	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.1	1		12/12/11 16:12	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.1	1		12/12/11 16:12	108-67-8	
Vinyl acetate	ND	ug/kg	81.5	1		12/12/11 16:12	108-05-4	
Vinyl chloride	ND	ug/kg	4.1	1		12/12/11 16:12	75-01-4	
Xylene (Total)	ND	ug/kg	8.1	1		12/12/11 16:12	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	117	%	71-125	1		12/12/11 16:12	1868-53-7	
Toluene-d8 (S)	95	%	76-124	1		12/12/11 16:12	2037-26-5	
4-Bromofluorobenzene (S)	104	%	67-134	1		12/12/11 16:12	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**5.6**	%	0.10	1		12/10/11 08:07		

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055737

Sample: GP-28 17-19 **Lab ID: 5055737003** Collected: 12/09/11 16:00 Received: 12/09/11 16:19 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	**175**	ug/kg	92.9	1		12/12/11 16:50	67-64-1	
Acrolein	ND	ug/kg	92.9	1		12/12/11 16:50	107-02-8	
Acrylonitrile	ND	ug/kg	92.9	1		12/12/11 16:50	107-13-1	
Benzene	ND	ug/kg	4.6	1		12/12/11 16:50	71-43-2	
Bromobenzene	ND	ug/kg	4.6	1		12/12/11 16:50	108-86-1	
Bromochloromethane	ND	ug/kg	4.6	1		12/12/11 16:50	74-97-5	
Bromodichloromethane	ND	ug/kg	4.6	1		12/12/11 16:50	75-27-4	
Bromoform	ND	ug/kg	4.6	1		12/12/11 16:50	75-25-2	
Bromomethane	ND	ug/kg	4.6	1		12/12/11 16:50	74-83-9	
2-Butanone (MEK)	ND	ug/kg	23.2	1		12/12/11 16:50	78-93-3	
n-Butylbenzene	ND	ug/kg	4.6	1		12/12/11 16:50	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.6	1		12/12/11 16:50	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.6	1		12/12/11 16:50	98-06-6	
Carbon disulfide	ND	ug/kg	9.3	1		12/12/11 16:50	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.6	1		12/12/11 16:50	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	1		12/12/11 16:50	108-90-7	
Chloroethane	ND	ug/kg	4.6	1		12/12/11 16:50	75-00-3	
Chloroform	ND	ug/kg	4.6	1		12/12/11 16:50	67-66-3	
Chloromethane	ND	ug/kg	4.6	1		12/12/11 16:50	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.6	1		12/12/11 16:50	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.6	1		12/12/11 16:50	106-43-4	
Dibromochloromethane	ND	ug/kg	4.6	1		12/12/11 16:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.6	1		12/12/11 16:50	106-93-4	
Dibromomethane	ND	ug/kg	4.6	1		12/12/11 16:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.6	1		12/12/11 16:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.6	1		12/12/11 16:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.6	1		12/12/11 16:50	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	92.9	1		12/12/11 16:50	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.6	1		12/12/11 16:50	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.6	1		12/12/11 16:50	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	1		12/12/11 16:50	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	1		12/12/11 16:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.6	1		12/12/11 16:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	1		12/12/11 16:50	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	1		12/12/11 16:50	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.6	1		12/12/11 16:50	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.6	1		12/12/11 16:50	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.6	1		12/12/11 16:50	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	1		12/12/11 16:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	1		12/12/11 16:50	10061-02-6	
Ethylbenzene	ND	ug/kg	4.6	1		12/12/11 16:50	100-41-4	
Ethyl methacrylate	ND	ug/kg	92.9	1		12/12/11 16:50	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.6	1		12/12/11 16:50	87-68-3	
n-Hexane	ND	ug/kg	4.6	1		12/12/11 16:50	110-54-3	N2
2-Hexanone	ND	ug/kg	92.9	1		12/12/11 16:50	591-78-6	
Iodomethane	ND	ug/kg	92.9	1		12/12/11 16:50	74-88-4	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055737

Sample: GP-28 17-19 **Lab ID: 5055737003** Collected: 12/09/11 16:00 Received: 12/09/11 16:19 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		12/12/11 16:50	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.6	1		12/12/11 16:50	99-87-6	
Methylene Chloride	ND	ug/kg	18.6	1		12/12/11 16:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	23.2	1		12/12/11 16:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.6	1		12/12/11 16:50	1634-04-4	
Naphthalene	ND	ug/kg	4.6	1		12/12/11 16:50	91-20-3	
n-Propylbenzene	ND	ug/kg	4.6	1		12/12/11 16:50	103-65-1	
Styrene	ND	ug/kg	4.6	1		12/12/11 16:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		12/12/11 16:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.6	1		12/12/11 16:50	79-34-5	
Tetrachloroethene	ND	ug/kg	4.6	1		12/12/11 16:50	127-18-4	
Toluene	ND	ug/kg	4.6	1		12/12/11 16:50	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.6	1		12/12/11 16:50	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.6	1		12/12/11 16:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.6	1		12/12/11 16:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	1		12/12/11 16:50	79-00-5	
Trichloroethene	ND	ug/kg	4.6	1		12/12/11 16:50	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.6	1		12/12/11 16:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.6	1		12/12/11 16:50	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.6	1		12/12/11 16:50	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.6	1		12/12/11 16:50	108-67-8	
Vinyl acetate	ND	ug/kg	92.9	1		12/12/11 16:50	108-05-4	
Vinyl chloride	ND	ug/kg	4.6	1		12/12/11 16:50	75-01-4	
Xylene (Total)	ND	ug/kg	9.3	1		12/12/11 16:50	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	120	%	71-125	1		12/12/11 16:50	1868-53-7	
Toluene-d8 (S)	96	%	76-124	1		12/12/11 16:50	2037-26-5	
4-Bromofluorobenzene (S)	105	%	67-134	1		12/12/11 16:50	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**8.0**	%	0.10	1		12/10/11 08:07		

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Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055737

QC Batch: MSV/37995 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 5055737001, 5055737002, 5055737003

METHOD BLANK: 659171 Matrix: Solid
Associated Lab Samples: 5055737001, 5055737002, 5055737003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	12/12/11 08:53	
1,1,1-Trichloroethane	ug/kg	ND	5.0	12/12/11 08:53	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	12/12/11 08:53	
1,1,2-Trichloroethane	ug/kg	ND	5.0	12/12/11 08:53	
1,1-Dichloroethane	ug/kg	ND	5.0	12/12/11 08:53	
1,1-Dichloroethene	ug/kg	ND	5.0	12/12/11 08:53	
1,1-Dichloropropene	ug/kg	ND	5.0	12/12/11 08:53	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	12/12/11 08:53	
1,2,3-Trichloropropane	ug/kg	ND	5.0	12/12/11 08:53	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	12/12/11 08:53	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	12/12/11 08:53	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	12/12/11 08:53	
1,2-Dichlorobenzene	ug/kg	ND	5.0	12/12/11 08:53	
1,2-Dichloroethane	ug/kg	ND	5.0	12/12/11 08:53	
1,2-Dichloropropane	ug/kg	ND	5.0	12/12/11 08:53	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	12/12/11 08:53	
1,3-Dichlorobenzene	ug/kg	ND	5.0	12/12/11 08:53	
1,3-Dichloropropane	ug/kg	ND	5.0	12/12/11 08:53	
1,4-Dichlorobenzene	ug/kg	ND	5.0	12/12/11 08:53	
2,2-Dichloropropane	ug/kg	ND	5.0	12/12/11 08:53	
2-Butanone (MEK)	ug/kg	ND	25.0	12/12/11 08:53	
2-Chlorotoluene	ug/kg	ND	5.0	12/12/11 08:53	
2-Hexanone	ug/kg	ND	100	12/12/11 08:53	
4-Chlorotoluene	ug/kg	ND	5.0	12/12/11 08:53	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	12/12/11 08:53	
Acetone	ug/kg	ND	100	12/12/11 08:53	
Acrolein	ug/kg	ND	100	12/12/11 08:53	
Acrylonitrile	ug/kg	ND	100	12/12/11 08:53	
Benzene	ug/kg	ND	5.0	12/12/11 08:53	
Bromobenzene	ug/kg	ND	5.0	12/12/11 08:53	
Bromochloromethane	ug/kg	ND	5.0	12/12/11 08:53	
Bromodichloromethane	ug/kg	ND	5.0	12/12/11 08:53	
Bromoform	ug/kg	ND	5.0	12/12/11 08:53	
Bromomethane	ug/kg	ND	5.0	12/12/11 08:53	
Carbon disulfide	ug/kg	ND	10.0	12/12/11 08:53	
Carbon tetrachloride	ug/kg	ND	5.0	12/12/11 08:53	
Chlorobenzene	ug/kg	ND	5.0	12/12/11 08:53	
Chloroethane	ug/kg	ND	5.0	12/12/11 08:53	
Chloroform	ug/kg	ND	5.0	12/12/11 08:53	
Chloromethane	ug/kg	ND	5.0	12/12/11 08:53	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	12/12/11 08:53	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	12/12/11 08:53	
Dibromochloromethane	ug/kg	ND	5.0	12/12/11 08:53	

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(317)875-5894

QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055737

METHOD BLANK: 659171 Matrix: Solid

Associated Lab Samples: 5055737001, 5055737002, 5055737003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	5.0	12/12/11 08:53	
Dichlorodifluoromethane	ug/kg	ND	5.0	12/12/11 08:53	
Ethyl methacrylate	ug/kg	ND	100	12/12/11 08:53	
Ethylbenzene	ug/kg	ND	5.0	12/12/11 08:53	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	12/12/11 08:53	
Iodomethane	ug/kg	ND	100	12/12/11 08:53	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	12/12/11 08:53	
Methyl-tert-butyl ether	ug/kg	ND	5.0	12/12/11 08:53	
Methylene Chloride	ug/kg	ND	20.0	12/12/11 08:53	
n-Butylbenzene	ug/kg	ND	5.0	12/12/11 08:53	
n-Hexane	ug/kg	ND	5.0	12/12/11 08:53	N2
n-Propylbenzene	ug/kg	ND	5.0	12/12/11 08:53	
Naphthalene	ug/kg	ND	5.0	12/12/11 08:53	
p-Isopropyltoluene	ug/kg	ND	5.0	12/12/11 08:53	
sec-Butylbenzene	ug/kg	ND	5.0	12/12/11 08:53	
Styrene	ug/kg	ND	5.0	12/12/11 08:53	
tert-Butylbenzene	ug/kg	ND	5.0	12/12/11 08:53	
Tetrachloroethene	ug/kg	ND	5.0	12/12/11 08:53	
Toluene	ug/kg	ND	5.0	12/12/11 08:53	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	12/12/11 08:53	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	12/12/11 08:53	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	12/12/11 08:53	
Trichloroethene	ug/kg	ND	5.0	12/12/11 08:53	
Trichlorofluoromethane	ug/kg	ND	5.0	12/12/11 08:53	
Vinyl acetate	ug/kg	ND	100	12/12/11 08:53	
Vinyl chloride	ug/kg	ND	5.0	12/12/11 08:53	
Xylene (Total)	ug/kg	ND	10.0	12/12/11 08:53	
4-Bromofluorobenzene (S)	%	107	67-134	12/12/11 08:53	
Dibromofluoromethane (S)	%	119	71-125	12/12/11 08:53	
Toluene-d8 (S)	%	94	76-124	12/12/11 08:53	

LABORATORY CONTROL SAMPLE: 659172

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	53.9	108	70-130	
1,1,1-Trichloroethane	ug/kg	50	54.1	108	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	50	46.1	92	70-130	
1,1,2-Trichloroethane	ug/kg	50	48.4	97	70-130	
1,1-Dichloroethane	ug/kg	50	50.3	101	70-130	
1,1-Dichloroethene	ug/kg	50	58.7	117	70-130	
1,1-Dichloropropene	ug/kg	50	52.1	104	70-130	
1,2,3-Trichlorobenzene	ug/kg	50	47.2	94	70-130	
1,2,3-Trichloropropane	ug/kg	50	96.1	192	70-130	L3
1,2,4-Trichlorobenzene	ug/kg	50	48.6	97	70-130	
1,2,4-Trimethylbenzene	ug/kg	50	46.5	93	70-130	

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7726 Moller Road
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(317)875-5894

QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055737

LABORATORY CONTROL SAMPLE: 659172

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/kg	50	50.5	101	70-130	
1,2-Dichlorobenzene	ug/kg	50	47.0	94	70-130	
1,2-Dichloroethane	ug/kg	50	51.8	104	70-130	
1,2-Dichloropropane	ug/kg	50	47.4	95	70-130	
1,3,5-Trimethylbenzene	ug/kg	50	47.2	94	70-130	
1,3-Dichlorobenzene	ug/kg	50	46.8	94	70-130	
1,3-Dichloropropane	ug/kg	50	47.9	96	70-130	
1,4-Dichlorobenzene	ug/kg	50	47.1	94	70-130	
2,2-Dichloropropane	ug/kg	50	54.3	109	40-160	
2-Butanone (MEK)	ug/kg	250	294	118	40-160	
2-Chlorotoluene	ug/kg	50	46.2	92	70-130	
2-Hexanone	ug/kg	250	225	90	40-160	
4-Chlorotoluene	ug/kg	50	48.4	97	70-130	
4-Methyl-2-pentanone (MIBK)	ug/kg	250	218	87	70-130	
Acetone	ug/kg	250	361	144	40-160	
Acrolein	ug/kg	1000	713	71	40-160	
Acrylonitrile	ug/kg	1000	808	81	70-130	
Benzene	ug/kg	50	47.2	94	70-130	
Bromobenzene	ug/kg	50	45.1	90	70-130	
Bromochloromethane	ug/kg	50	52.7	105	70-130	
Bromodichloromethane	ug/kg	50	47.5	95	70-130	
Bromoform	ug/kg	50	44.4	89	70-130	
Bromomethane	ug/kg	50	58.5	117	40-160	
Carbon disulfide	ug/kg	100	118	118	40-160	
Carbon tetrachloride	ug/kg	50	54.2	108	70-130	
Chlorobenzene	ug/kg	50	49.0	98	70-130	
Chloroethane	ug/kg	50	53.4	107	70-130	
Chloroform	ug/kg	50	49.0	98	70-130	
Chloromethane	ug/kg	50	38.9	78	70-130	
cis-1,2-Dichloroethene	ug/kg	50	48.1	96	70-130	
cis-1,3-Dichloropropene	ug/kg	50	48.7	97	70-130	
Dibromochloromethane	ug/kg	50	49.6	99	70-130	
Dibromomethane	ug/kg	50	51.8	104	70-130	
Dichlorodifluoromethane	ug/kg	50	57.3	115	70-130	
Ethyl methacrylate	ug/kg	200	181	90	40-160	
Ethylbenzene	ug/kg	50	47.4	95	70-130	
Hexachloro-1,3-butadiene	ug/kg	50	49.4	99	70-130	
Iodomethane	ug/kg	100	138	138	70-130	L3
Isopropylbenzene (Cumene)	ug/kg	50	50.6	101	70-130	
Methyl-tert-butyl ether	ug/kg	100	93.5	94	40-160	
Methylene Chloride	ug/kg	50	49.5	99	70-130	
n-Butylbenzene	ug/kg	50	48.9	98	70-130	
n-Hexane	ug/kg	50	42.5	85	70-130	N2
n-Propylbenzene	ug/kg	50	46.4	93	70-130	
Naphthalene	ug/kg	50	46.3	93	70-130	
p-Isopropyltoluene	ug/kg	50	49.0	98	70-130	
sec-Butylbenzene	ug/kg	50	47.4	95	70-130	
Styrene	ug/kg	50	47.6	95	70-130	

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(317)875-5894

QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055737

LABORATORY CONTROL SAMPLE: 659172

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/kg	50	35.7	71	70-130	
Tetrachloroethene	ug/kg	50	48.2	96	70-130	
Toluene	ug/kg	50	47.4	95	70-130	
trans-1,2-Dichloroethene	ug/kg	50	49.2	98	70-130	
trans-1,3-Dichloropropene	ug/kg	50	50.0	100	70-130	
trans-1,4-Dichloro-2-butene	ug/kg	200	233	116	70-130	
Trichloroethene	ug/kg	50	46.9	94	70-130	
Trichlorofluoromethane	ug/kg	50	60.5	121	70-130	
Vinyl acetate	ug/kg	200	186	93	40-160	
Vinyl chloride	ug/kg	50	52.4	105	70-130	
Xylene (Total)	ug/kg	150	141	94	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			106	70-130	
Toluene-d8 (S)	%			98	70-130	

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(317)875-5894

QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055737

QC Batch: PMST/6546 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 5055737001, 5055737002, 5055737003

SAMPLE DUPLICATE: 658861

Parameter	Units	5055283023 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	20.4	19.8	3	5	

SAMPLE DUPLICATE: 658862

Parameter	Units	5055682003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	15.2	14.8	3	5	

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QUALIFIERS

Project: Michigan Plaza M01046
Pace Project No.: 5055737

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.

ANALYTE QUALIFIERS

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.: 5055737

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5055737001	**GP-26 18-20**	EPA 8260	MSV/37995		
5055737002	**GP-25 18-20**	EPA 8260	MSV/37995		
5055737003	**GP-28 17-19**	EPA 8260	MSV/37995		
5055737001	**GP-26 18-20**	ASTM D2974-87	PMST/6546		
5055737002	**GP-25 18-20**	ASTM D2974-87	PMST/6546		
5055737003	**GP-28 17-19**	ASTM D2974-87	PMST/6546		

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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

1514888

Section A
Required Client Information:

Company:	Mundell & Associates
Address:	
Email To:	sweb@mundellassociates.com
Phone:	Fax:
Requested Due Date/TAT:	

Section B
Required Project Information:

Report To:	Sarah Webb
Copy To:	
Purchase Order No.:	
Project Name:	Michigan Plaza
Project Number:	MO 10846

Section C
Invoice Information:

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

REGULATORY AGENCY

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

Site Location STATE: IN

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	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	8260 VOCs	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 5055737
1	GP-26 18-20	SL	G	12-9-11	1:00pm				TC									X			-001
2	GP-25 18-20	SL	G	12-9-11	11:00am				TC									X			-002
3	GP-28 17-19	SL	G	12-9-11	4:00pm				TC									X			-003
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
5 day turn.	SWebb MH	12/9/11	4:18	James Jones	12/9	4:19	1.3

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: | DATE Signed (MM/DD/YY):

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 # 50455737

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 _____

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) 1.3 Ice Visible in Sample Containers: ☐ yes ☑ no

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 12-9-11 JS

		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.
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: _____ **Date:** 12/9/11

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

Sample Container Count

CLIENT: Mundell

COC PAGE 1 of 1

COC ID# _____

Project # 5055737

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

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

December 19, 2011

Ms. Sarah Webb
Mundell & Associates
110 South Downey Ave.
Indianapolis, IN 46219

RE: Project: Michigan Plaza
Pace Project No.: 5055793

Dear Ms. Webb:
Enclosed are the analytical results for sample(s) received by the laboratory on December 12, 2011. 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@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: Michigan Plaza
Pace Project No.: 5055793

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
Wisconsin DATCP Certification #: 105-444

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 100418
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana/NELAC Certification #: 04076
Ohio VAP: CL0065
West Virginia Certification #: 330

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SAMPLE SUMMARY

Project: Michigan Plaza
Pace Project No.: 5055793

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5055793001	**GP-25 28'**	Water	12/09/11 11:30	12/12/11 13:05
5055793002	**GP-25 38'**	Water	12/09/11 11:20	12/12/11 13:05
5055793003	**GP-26 25'**	Water	12/09/11 13:40	12/12/11 13:05
5055793004	**GP-26 32'**	Water	12/09/11 13:30	12/12/11 13:05
5055793005	**GP-27 26'**	Water	12/09/11 10:00	12/12/11 13:05
5055793006	**GP-27 36'**	Water	12/09/11 09:50	12/12/11 13:05
5055793007	**Trip Blank**	Water	12/09/11 08:00	12/12/11 13:05
5055793008	**GP-28 38.5'**	Water	12/09/11 14:15	12/12/11 13:05
5055793009	**GP-28 28'**	Water	12/09/11 14:30	12/12/11 13:05
5055793010	**GP-28 17-19'**	Solid	12/09/11 16:00	12/12/11 13:05
5055793011	**GP-25 18-20'**	Solid	12/09/11 11:00	12/12/11 13:05
5055793012	**GP-26 18-20'**	Solid	12/09/11 13:00	12/12/11 13:05

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SAMPLE ANALYTE COUNT

Project: Michigan Plaza
Pace Project No.: 5055793

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
5055793001	**GP-25 28'**	EPA 8260	SLB	73	PASI-I
5055793002	**GP-25 38'**	EPA 8260	SLB	73	PASI-I
5055793003	**GP-26 25'**	EPA 8260	SLB	73	PASI-I
5055793004	**GP-26 32'**	EPA 8260	SLB	73	PASI-I
5055793005	**GP-27 26'**	EPA 8260	SLB	73	PASI-I
5055793006	**GP-27 36'**	EPA 8260	SLB	73	PASI-I
5055793007	**Trip Blank**	EPA 8260	SLB	73	PASI-I
5055793008	**GP-28 38.5'**	EPA 8260	SLB	73	PASI-I
5055793009	**GP-28 28'**	EPA 8260	SLB	73	PASI-I
5055793010	**GP-28 17-19'**	Walkley Black	TJJ	3	PASI-G
5055793011	**GP-25 18-20'**	Walkley Black	TJJ	3	PASI-G
5055793012	**GP-26 18-20'**	Walkley Black	TJJ	3	PASI-G

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5055793

Sample: GP-25 28' **Lab ID: 5055793001** Collected: 12/09/11 11:30 Received: 12/12/11 13:05 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		12/13/11 12:20	67-64-1	
Acrolein	ND	ug/L	50.0	1		12/13/11 12:20	107-02-8	
Acrylonitrile	ND	ug/L	100	1		12/13/11 12:20	107-13-1	
Benzene	ND	ug/L	5.0	1		12/13/11 12:20	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		12/13/11 12:20	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		12/13/11 12:20	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		12/13/11 12:20	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/13/11 12:20	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/13/11 12:20	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		12/13/11 12:20	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		12/13/11 12:20	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		12/13/11 12:20	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		12/13/11 12:20	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		12/13/11 12:20	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/13/11 12:20	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/13/11 12:20	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/13/11 12:20	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/13/11 12:20	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/13/11 12:20	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		12/13/11 12:20	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		12/13/11 12:20	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		12/13/11 12:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/13/11 12:20	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		12/13/11 12:20	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/13/11 12:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/13/11 12:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/13/11 12:20	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		12/13/11 12:20	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		12/13/11 12:20	75-71-8	HS,p2
1,1-Dichloroethane	ND	ug/L	5.0	1		12/13/11 12:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/13/11 12:20	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/13/11 12:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		12/13/11 12:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/13/11 12:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/13/11 12:20	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		12/13/11 12:20	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		12/13/11 12:20	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		12/13/11 12:20	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/13/11 12:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/13/11 12:20	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/13/11 12:20	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		12/13/11 12:20	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/13/11 12:20	87-68-3	
n-Hexane	ND	ug/L	5.0	1		12/13/11 12:20	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		12/13/11 12:20	591-78-6	
Iodomethane	ND	ug/L	10.0	1		12/13/11 12:20	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		12/13/11 12:20	98-82-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5055793

Sample: GP-25 28' **Lab ID: 5055793001** Collected: 12/09/11 11:30 Received: 12/12/11 13:05 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		12/13/11 12:20	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		12/13/11 12:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		12/13/11 12:20	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		12/13/11 12:20	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/13/11 12:20	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		12/13/11 12:20	103-65-1	
Styrene	ND	ug/L	5.0	1		12/13/11 12:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		12/13/11 12:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/13/11 12:20	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/13/11 12:20	127-18-4	
Toluene	ND	ug/L	5.0	1		12/13/11 12:20	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		12/13/11 12:20	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		12/13/11 12:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/13/11 12:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/13/11 12:20	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/13/11 12:20	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/13/11 12:20	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		12/13/11 12:20	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		12/13/11 12:20	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		12/13/11 12:20	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		12/13/11 12:20	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		12/13/11 12:20	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/13/11 12:20	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%.	83-123	1		12/13/11 12:20	1868-53-7	
4-Bromofluorobenzene (S)	104	%.	72-125	1		12/13/11 12:20	460-00-4	
Toluene-d8 (S)	93	%.	81-114	1		12/13/11 12:20	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5055793

Sample: GP-25 38' **Lab ID: 5055793002** Collected: 12/09/11 11:20 Received: 12/12/11 13:05 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		12/13/11 12:58	67-64-1	
Acrolein	ND	ug/L	50.0	1		12/13/11 12:58	107-02-8	
Acrylonitrile	ND	ug/L	100	1		12/13/11 12:58	107-13-1	
Benzene	ND	ug/L	5.0	1		12/13/11 12:58	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		12/13/11 12:58	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		12/13/11 12:58	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		12/13/11 12:58	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/13/11 12:58	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/13/11 12:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		12/13/11 12:58	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		12/13/11 12:58	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		12/13/11 12:58	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		12/13/11 12:58	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		12/13/11 12:58	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/13/11 12:58	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/13/11 12:58	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/13/11 12:58	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/13/11 12:58	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/13/11 12:58	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		12/13/11 12:58	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		12/13/11 12:58	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		12/13/11 12:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/13/11 12:58	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		12/13/11 12:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/13/11 12:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/13/11 12:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/13/11 12:58	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		12/13/11 12:58	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		12/13/11 12:58	75-71-8	p2
1,1-Dichloroethane	ND	ug/L	5.0	1		12/13/11 12:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/13/11 12:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/13/11 12:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		12/13/11 12:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/13/11 12:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/13/11 12:58	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		12/13/11 12:58	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		12/13/11 12:58	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		12/13/11 12:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/13/11 12:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/13/11 12:58	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/13/11 12:58	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		12/13/11 12:58	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/13/11 12:58	87-68-3	
n-Hexane	ND	ug/L	5.0	1		12/13/11 12:58	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		12/13/11 12:58	591-78-6	
Iodomethane	ND	ug/L	10.0	1		12/13/11 12:58	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		12/13/11 12:58	98-82-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5055793

Sample: GP-25 38' **Lab ID: 5055793002** Collected: 12/09/11 11:20 Received: 12/12/11 13:05 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		12/13/11 12:58	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		12/13/11 12:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		12/13/11 12:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		12/13/11 12:58	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/13/11 12:58	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		12/13/11 12:58	103-65-1	
Styrene	ND	ug/L	5.0	1		12/13/11 12:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		12/13/11 12:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/13/11 12:58	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/13/11 12:58	127-18-4	
Toluene	ND	ug/L	5.0	1		12/13/11 12:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		12/13/11 12:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		12/13/11 12:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/13/11 12:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/13/11 12:58	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/13/11 12:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/13/11 12:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		12/13/11 12:58	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		12/13/11 12:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		12/13/11 12:58	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		12/13/11 12:58	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		12/13/11 12:58	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/13/11 12:58	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%.	83-123	1		12/13/11 12:58	1868-53-7	
4-Bromofluorobenzene (S)	104	%.	72-125	1		12/13/11 12:58	460-00-4	
Toluene-d8 (S)	93	%.	81-114	1		12/13/11 12:58	2037-26-5	

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(317)875-5894

ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5055793

Sample: GP-26 25' **Lab ID: 5055793003** Collected: 12/09/11 13:40 Received: 12/12/11 13:05 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		12/13/11 13:35	67-64-1	
Acrolein	ND	ug/L	50.0	1		12/13/11 13:35	107-02-8	
Acrylonitrile	ND	ug/L	100	1		12/13/11 13:35	107-13-1	
Benzene	ND	ug/L	5.0	1		12/13/11 13:35	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		12/13/11 13:35	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		12/13/11 13:35	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		12/13/11 13:35	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/13/11 13:35	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/13/11 13:35	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		12/13/11 13:35	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		12/13/11 13:35	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		12/13/11 13:35	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		12/13/11 13:35	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		12/13/11 13:35	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/13/11 13:35	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/13/11 13:35	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/13/11 13:35	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/13/11 13:35	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/13/11 13:35	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		12/13/11 13:35	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		12/13/11 13:35	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		12/13/11 13:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/13/11 13:35	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		12/13/11 13:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/13/11 13:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/13/11 13:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/13/11 13:35	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		12/13/11 13:35	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		12/13/11 13:35	75-71-8	p2
1,1-Dichloroethane	ND	ug/L	5.0	1		12/13/11 13:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/13/11 13:35	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/13/11 13:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		12/13/11 13:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/13/11 13:35	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/13/11 13:35	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		12/13/11 13:35	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		12/13/11 13:35	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		12/13/11 13:35	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/13/11 13:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/13/11 13:35	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/13/11 13:35	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		12/13/11 13:35	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/13/11 13:35	87-68-3	
n-Hexane	ND	ug/L	5.0	1		12/13/11 13:35	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		12/13/11 13:35	591-78-6	
Iodomethane	ND	ug/L	10.0	1		12/13/11 13:35	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		12/13/11 13:35	98-82-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5055793

Sample: GP-26 25' **Lab ID: 5055793003** Collected: 12/09/11 13:40 Received: 12/12/11 13:05 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		12/13/11 13:35	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		12/13/11 13:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		12/13/11 13:35	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		12/13/11 13:35	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/13/11 13:35	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		12/13/11 13:35	103-65-1	
Styrene	ND	ug/L	5.0	1		12/13/11 13:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		12/13/11 13:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/13/11 13:35	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/13/11 13:35	127-18-4	
Toluene	ND	ug/L	5.0	1		12/13/11 13:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		12/13/11 13:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		12/13/11 13:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/13/11 13:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/13/11 13:35	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/13/11 13:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/13/11 13:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		12/13/11 13:35	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		12/13/11 13:35	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		12/13/11 13:35	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		12/13/11 13:35	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		12/13/11 13:35	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/13/11 13:35	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%.	83-123	1		12/13/11 13:35	1868-53-7	
4-Bromofluorobenzene (S)	104	%.	72-125	1		12/13/11 13:35	460-00-4	
Toluene-d8 (S)	93	%.	81-114	1		12/13/11 13:35	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5055793

Sample: GP-26 32' **Lab ID: 5055793004** Collected: 12/09/11 13:30 Received: 12/12/11 13:05 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		12/13/11 14:12	67-64-1	
Acrolein	ND	ug/L	50.0	1		12/13/11 14:12	107-02-8	
Acrylonitrile	ND	ug/L	100	1		12/13/11 14:12	107-13-1	
Benzene	ND	ug/L	5.0	1		12/13/11 14:12	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		12/13/11 14:12	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		12/13/11 14:12	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		12/13/11 14:12	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/13/11 14:12	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/13/11 14:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		12/13/11 14:12	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		12/13/11 14:12	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		12/13/11 14:12	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		12/13/11 14:12	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		12/13/11 14:12	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/13/11 14:12	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/13/11 14:12	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/13/11 14:12	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/13/11 14:12	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/13/11 14:12	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		12/13/11 14:12	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		12/13/11 14:12	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		12/13/11 14:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/13/11 14:12	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		12/13/11 14:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/13/11 14:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/13/11 14:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/13/11 14:12	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		12/13/11 14:12	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		12/13/11 14:12	75-71-8	HS,p2
1,1-Dichloroethane	ND	ug/L	5.0	1		12/13/11 14:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/13/11 14:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/13/11 14:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		12/13/11 14:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/13/11 14:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/13/11 14:12	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		12/13/11 14:12	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		12/13/11 14:12	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		12/13/11 14:12	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/13/11 14:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/13/11 14:12	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/13/11 14:12	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		12/13/11 14:12	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/13/11 14:12	87-68-3	
n-Hexane	ND	ug/L	5.0	1		12/13/11 14:12	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		12/13/11 14:12	591-78-6	
Iodomethane	ND	ug/L	10.0	1		12/13/11 14:12	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		12/13/11 14:12	98-82-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5055793

Sample: GP-26 32' **Lab ID: 5055793004** Collected: 12/09/11 13:30 Received: 12/12/11 13:05 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		12/13/11 14:12	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		12/13/11 14:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		12/13/11 14:12	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		12/13/11 14:12	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/13/11 14:12	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		12/13/11 14:12	103-65-1	
Styrene	ND	ug/L	5.0	1		12/13/11 14:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		12/13/11 14:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/13/11 14:12	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/13/11 14:12	127-18-4	
Toluene	ND	ug/L	5.0	1		12/13/11 14:12	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		12/13/11 14:12	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		12/13/11 14:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/13/11 14:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/13/11 14:12	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/13/11 14:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/13/11 14:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		12/13/11 14:12	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		12/13/11 14:12	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		12/13/11 14:12	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		12/13/11 14:12	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		12/13/11 14:12	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/13/11 14:12	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%.	83-123	1		12/13/11 14:12	1868-53-7	
4-Bromofluorobenzene (S)	103	%.	72-125	1		12/13/11 14:12	460-00-4	
Toluene-d8 (S)	93	%.	81-114	1		12/13/11 14:12	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5055793

Sample: GP-27 26' **Lab ID: 5055793005** Collected: 12/09/11 10:00 Received: 12/12/11 13:05 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		12/13/11 16:05	67-64-1	
Acrolein	ND	ug/L	50.0	1		12/13/11 16:05	107-02-8	
Acrylonitrile	ND	ug/L	100	1		12/13/11 16:05	107-13-1	
Benzene	ND	ug/L	5.0	1		12/13/11 16:05	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		12/13/11 16:05	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		12/13/11 16:05	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		12/13/11 16:05	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/13/11 16:05	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/13/11 16:05	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		12/13/11 16:05	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		12/13/11 16:05	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		12/13/11 16:05	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		12/13/11 16:05	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		12/13/11 16:05	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/13/11 16:05	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/13/11 16:05	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/13/11 16:05	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/13/11 16:05	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/13/11 16:05	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		12/13/11 16:05	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		12/13/11 16:05	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		12/13/11 16:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/13/11 16:05	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		12/13/11 16:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/13/11 16:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/13/11 16:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/13/11 16:05	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		12/13/11 16:05	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		12/13/11 16:05	75-71-8	p2
1,1-Dichloroethane	ND	ug/L	5.0	1		12/13/11 16:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/13/11 16:05	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/13/11 16:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		12/13/11 16:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/13/11 16:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/13/11 16:05	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		12/13/11 16:05	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		12/13/11 16:05	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		12/13/11 16:05	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/13/11 16:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/13/11 16:05	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/13/11 16:05	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		12/13/11 16:05	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/13/11 16:05	87-68-3	
n-Hexane	ND	ug/L	5.0	1		12/13/11 16:05	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		12/13/11 16:05	591-78-6	
Iodomethane	ND	ug/L	10.0	1		12/13/11 16:05	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		12/13/11 16:05	98-82-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5055793

Sample: GP-27 26' **Lab ID: 5055793005** Collected: 12/09/11 10:00 Received: 12/12/11 13:05 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		12/13/11 16:05	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		12/13/11 16:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		12/13/11 16:05	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		12/13/11 16:05	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/13/11 16:05	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		12/13/11 16:05	103-65-1	
Styrene	ND	ug/L	5.0	1		12/13/11 16:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		12/13/11 16:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/13/11 16:05	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/13/11 16:05	127-18-4	
Toluene	ND	ug/L	5.0	1		12/13/11 16:05	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		12/13/11 16:05	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		12/13/11 16:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/13/11 16:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/13/11 16:05	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/13/11 16:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/13/11 16:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		12/13/11 16:05	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		12/13/11 16:05	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		12/13/11 16:05	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		12/13/11 16:05	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		12/13/11 16:05	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/13/11 16:05	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%.	83-123	1		12/13/11 16:05	1868-53-7	
4-Bromofluorobenzene (S)	103	%.	72-125	1		12/13/11 16:05	460-00-4	
Toluene-d8 (S)	92	%.	81-114	1		12/13/11 16:05	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5055793

Sample: GP-27 36' **Lab ID: 5055793006** Collected: 12/09/11 09:50 Received: 12/12/11 13:05 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		12/13/11 16:42	67-64-1	
Acrolein	ND	ug/L	50.0	1		12/13/11 16:42	107-02-8	
Acrylonitrile	ND	ug/L	100	1		12/13/11 16:42	107-13-1	
Benzene	ND	ug/L	5.0	1		12/13/11 16:42	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		12/13/11 16:42	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		12/13/11 16:42	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		12/13/11 16:42	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/13/11 16:42	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/13/11 16:42	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		12/13/11 16:42	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		12/13/11 16:42	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		12/13/11 16:42	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		12/13/11 16:42	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		12/13/11 16:42	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/13/11 16:42	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/13/11 16:42	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/13/11 16:42	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/13/11 16:42	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/13/11 16:42	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		12/13/11 16:42	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		12/13/11 16:42	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		12/13/11 16:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/13/11 16:42	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		12/13/11 16:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/13/11 16:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/13/11 16:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/13/11 16:42	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		12/13/11 16:42	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		12/13/11 16:42	75-71-8	p2
1,1-Dichloroethane	ND	ug/L	5.0	1		12/13/11 16:42	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/13/11 16:42	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/13/11 16:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		12/13/11 16:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/13/11 16:42	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/13/11 16:42	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		12/13/11 16:42	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		12/13/11 16:42	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		12/13/11 16:42	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/13/11 16:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/13/11 16:42	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/13/11 16:42	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		12/13/11 16:42	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/13/11 16:42	87-68-3	
n-Hexane	ND	ug/L	5.0	1		12/13/11 16:42	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		12/13/11 16:42	591-78-6	
Iodomethane	ND	ug/L	10.0	1		12/13/11 16:42	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		12/13/11 16:42	98-82-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5055793

Sample: GP-27 36' **Lab ID: 5055793006** Collected: 12/09/11 09:50 Received: 12/12/11 13:05 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		12/13/11 16:42	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		12/13/11 16:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		12/13/11 16:42	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		12/13/11 16:42	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/13/11 16:42	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		12/13/11 16:42	103-65-1	
Styrene	ND	ug/L	5.0	1		12/13/11 16:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		12/13/11 16:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/13/11 16:42	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/13/11 16:42	127-18-4	
Toluene	ND	ug/L	5.0	1		12/13/11 16:42	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		12/13/11 16:42	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		12/13/11 16:42	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/13/11 16:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/13/11 16:42	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/13/11 16:42	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/13/11 16:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		12/13/11 16:42	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		12/13/11 16:42	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		12/13/11 16:42	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		12/13/11 16:42	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		12/13/11 16:42	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/13/11 16:42	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%.	83-123	1		12/13/11 16:42	1868-53-7	
4-Bromofluorobenzene (S)	104	%.	72-125	1		12/13/11 16:42	460-00-4	
Toluene-d8 (S)	93	%.	81-114	1		12/13/11 16:42	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5055793

Sample: Trip Blank **Lab ID: 5055793007** Collected: 12/09/11 08:00 Received: 12/12/11 13:05 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		12/13/11 17:20	67-64-1	
Acrolein	ND	ug/L	50.0	1		12/13/11 17:20	107-02-8	
Acrylonitrile	ND	ug/L	100	1		12/13/11 17:20	107-13-1	
Benzene	ND	ug/L	5.0	1		12/13/11 17:20	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		12/13/11 17:20	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		12/13/11 17:20	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		12/13/11 17:20	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/13/11 17:20	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/13/11 17:20	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		12/13/11 17:20	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		12/13/11 17:20	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		12/14/11 22:10	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		12/13/11 17:20	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		12/13/11 17:20	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/13/11 17:20	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/13/11 17:20	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/13/11 17:20	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/13/11 17:20	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/13/11 17:20	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		12/13/11 17:20	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		12/13/11 17:20	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		12/13/11 17:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/13/11 17:20	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		12/13/11 17:20	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/13/11 17:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/13/11 17:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/13/11 17:20	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		12/13/11 17:20	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		12/13/11 17:20	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/13/11 17:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/13/11 17:20	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/13/11 17:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		12/13/11 17:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/13/11 17:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/13/11 17:20	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		12/13/11 17:20	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		12/13/11 17:20	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		12/13/11 17:20	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/13/11 17:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/13/11 17:20	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/13/11 17:20	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		12/13/11 17:20	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/13/11 17:20	87-68-3	
n-Hexane	ND	ug/L	5.0	1		12/13/11 17:20	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		12/13/11 17:20	591-78-6	
Iodomethane	ND	ug/L	10.0	1		12/13/11 17:20	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		12/13/11 17:20	98-82-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5055793

Sample: Trip Blank **Lab ID: 5055793007** Collected: 12/09/11 08:00 Received: 12/12/11 13:05 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		12/14/11 22:10	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		12/13/11 17:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		12/13/11 17:20	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		12/13/11 17:20	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/13/11 17:20	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		12/14/11 22:10	103-65-1	
Styrene	ND	ug/L	5.0	1		12/13/11 17:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		12/13/11 17:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/13/11 17:20	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/13/11 17:20	127-18-4	
Toluene	ND	ug/L	5.0	1		12/13/11 17:20	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		12/13/11 17:20	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		12/13/11 17:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/13/11 17:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/13/11 17:20	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/13/11 17:20	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/13/11 17:20	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		12/13/11 17:20	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		12/14/11 22:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		12/14/11 22:10	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		12/13/11 17:20	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		12/13/11 17:20	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/13/11 17:20	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	83-123	1		12/13/11 17:20	1868-53-7	
4-Bromofluorobenzene (S)	104	%.	72-125	1		12/13/11 17:20	460-00-4	
Toluene-d8 (S)	92	%.	81-114	1		12/13/11 17:20	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5055793

Sample: GP-28 38.5' **Lab ID: 5055793008** Collected: 12/09/11 14:15 Received: 12/12/11 13:05 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		12/13/11 17:57	67-64-1	
Acrolein	ND	ug/L	50.0	1		12/13/11 17:57	107-02-8	
Acrylonitrile	ND	ug/L	100	1		12/13/11 17:57	107-13-1	
Benzene	ND	ug/L	5.0	1		12/13/11 17:57	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		12/13/11 17:57	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		12/13/11 17:57	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		12/13/11 17:57	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/13/11 17:57	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/13/11 17:57	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		12/13/11 17:57	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		12/13/11 17:57	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		12/13/11 17:57	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		12/13/11 17:57	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		12/13/11 17:57	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/13/11 17:57	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/13/11 17:57	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/13/11 17:57	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/13/11 17:57	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/13/11 17:57	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		12/13/11 17:57	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		12/13/11 17:57	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		12/13/11 17:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/13/11 17:57	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		12/13/11 17:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/13/11 17:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/13/11 17:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/13/11 17:57	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		12/13/11 17:57	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		12/13/11 17:57	75-71-8	p2
1,1-Dichloroethane	ND	ug/L	5.0	1		12/13/11 17:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/13/11 17:57	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/13/11 17:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		12/13/11 17:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/13/11 17:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/13/11 17:57	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		12/13/11 17:57	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		12/13/11 17:57	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		12/13/11 17:57	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/13/11 17:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/13/11 17:57	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/13/11 17:57	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		12/13/11 17:57	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/13/11 17:57	87-68-3	
n-Hexane	ND	ug/L	5.0	1		12/13/11 17:57	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		12/13/11 17:57	591-78-6	
Iodomethane	ND	ug/L	10.0	1		12/13/11 17:57	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		12/13/11 17:57	98-82-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5055793

Sample: GP-28 38.5' **Lab ID: 5055793008** Collected: 12/09/11 14:15 Received: 12/12/11 13:05 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		12/13/11 17:57	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		12/13/11 17:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		12/13/11 17:57	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		12/13/11 17:57	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/13/11 17:57	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		12/13/11 17:57	103-65-1	
Styrene	ND	ug/L	5.0	1		12/13/11 17:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		12/13/11 17:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/13/11 17:57	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/13/11 17:57	127-18-4	
Toluene	ND	ug/L	5.0	1		12/13/11 17:57	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		12/13/11 17:57	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		12/13/11 17:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/13/11 17:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/13/11 17:57	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/13/11 17:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/13/11 17:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		12/13/11 17:57	96-18-4	
1,2,4-Trimethylbenzene	**6.2**	ug/L	5.0	1		12/13/11 17:57	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		12/13/11 17:57	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		12/13/11 17:57	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		12/13/11 17:57	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/13/11 17:57	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	83-123	1		12/13/11 17:57	1868-53-7	
4-Bromofluorobenzene (S)	106	%.	72-125	1		12/13/11 17:57	460-00-4	
Toluene-d8 (S)	94	%.	81-114	1		12/13/11 17:57	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5055793

Sample: GP-28 28' **Lab ID: 5055793009** Collected: 12/09/11 14:30 Received: 12/12/11 13:05 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		12/13/11 23:35	67-64-1	
Acrolein	ND	ug/L	50.0	1		12/13/11 23:35	107-02-8	
Acrylonitrile	ND	ug/L	100	1		12/13/11 23:35	107-13-1	
Benzene	ND	ug/L	5.0	1		12/13/11 23:35	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		12/13/11 23:35	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		12/13/11 23:35	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		12/13/11 23:35	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/13/11 23:35	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/13/11 23:35	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		12/13/11 23:35	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		12/13/11 23:35	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		12/13/11 23:35	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		12/13/11 23:35	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		12/13/11 23:35	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/13/11 23:35	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/13/11 23:35	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/13/11 23:35	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/13/11 23:35	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/13/11 23:35	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		12/13/11 23:35	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		12/13/11 23:35	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		12/13/11 23:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/13/11 23:35	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		12/13/11 23:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/13/11 23:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/13/11 23:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/13/11 23:35	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		12/13/11 23:35	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		12/13/11 23:35	75-71-8	HS,p2
1,1-Dichloroethane	ND	ug/L	5.0	1		12/13/11 23:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/13/11 23:35	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/13/11 23:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		12/13/11 23:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/13/11 23:35	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/13/11 23:35	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		12/13/11 23:35	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		12/13/11 23:35	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		12/13/11 23:35	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/13/11 23:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/13/11 23:35	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/13/11 23:35	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		12/13/11 23:35	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/13/11 23:35	87-68-3	
n-Hexane	ND	ug/L	5.0	1		12/13/11 23:35	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		12/13/11 23:35	591-78-6	
Iodomethane	ND	ug/L	10.0	1		12/13/11 23:35	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		12/13/11 23:35	98-82-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5055793

Sample: GP-28 28' **Lab ID: 5055793009** Collected: 12/09/11 14:30 Received: 12/12/11 13:05 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		12/13/11 23:35	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		12/13/11 23:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		12/13/11 23:35	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		12/13/11 23:35	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/13/11 23:35	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		12/13/11 23:35	103-65-1	
Styrene	ND	ug/L	5.0	1		12/13/11 23:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		12/13/11 23:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/13/11 23:35	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/13/11 23:35	127-18-4	
Toluene	ND	ug/L	5.0	1		12/13/11 23:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		12/13/11 23:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		12/13/11 23:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/13/11 23:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/13/11 23:35	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/13/11 23:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/13/11 23:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		12/13/11 23:35	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		12/13/11 23:35	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		12/13/11 23:35	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		12/13/11 23:35	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		12/13/11 23:35	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/13/11 23:35	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%.	83-123	1		12/13/11 23:35	1868-53-7	
4-Bromofluorobenzene (S)	104	%.	72-125	1		12/13/11 23:35	460-00-4	
Toluene-d8 (S)	93	%.	81-114	1		12/13/11 23:35	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5055793

Sample: GP-28 17-19' **Lab ID: 5055793010** Collected: 12/09/11 16:00 Received: 12/12/11 13:05 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Organic Carbon Walkley Black	Analytical Method: Walkley Black							
Total Organic Carbon	**4780**	mg/kg	401	1		12/15/11 15:03	7440-44-0	
Total Organic Carbon	**4150**	mg/kg	401	1		12/15/11 15:03	7440-44-0	
Total Organic Carbon	**4150**	mg/kg	401	1		12/15/11 15:03	7440-44-0	

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5055793

Sample: GP-25 18-20' **Lab ID: 5055793011** Collected: 12/09/11 11:00 Received: 12/12/11 13:05 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Organic Carbon Walkley Black	Analytical Method: Walkley Black							
Total Organic Carbon	**4520**	mg/kg	398	1		12/15/11 15:03	7440-44-0	
Total Organic Carbon	**4300**	mg/kg	398	1		12/15/11 15:03	7440-44-0	
Total Organic Carbon	**4240**	mg/kg	398	1		12/15/11 15:03	7440-44-0	

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ANALYTICAL RESULTS

Project: Michigan Plaza
Pace Project No.: 5055793

Sample: GP-26 18-20' **Lab ID: 5055793012** Collected: 12/09/11 13:00 Received: 12/12/11 13:05 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Organic Carbon Walkley Black	Analytical Method: Walkley Black							
Total Organic Carbon	**3710**	mg/kg	397	1		12/15/11 15:03	7440-44-0	
Total Organic Carbon	**4110**	mg/kg	397	1		12/15/11 15:03	7440-44-0	
Total Organic Carbon	**4390**	mg/kg	397	1		12/15/11 15:03	7440-44-0	

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QUALITY CONTROL DATA

Project: Michigan Plaza
Pace Project No.: 5055793

QC Batch: MSV/38035 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5055793001, 5055793002, 5055793003, 5055793004, 5055793005, 5055793006, 5055793007, 5055793008

METHOD BLANK: 659953 Matrix: Water
Associated Lab Samples: 5055793001, 5055793002, 5055793003, 5055793004, 5055793005, 5055793006, 5055793007, 5055793008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	12/13/11 09:13	
1,1,1-Trichloroethane	ug/L	ND	5.0	12/13/11 09:13	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	12/13/11 09:13	
1,1,2-Trichloroethane	ug/L	ND	5.0	12/13/11 09:13	
1,1-Dichloroethane	ug/L	ND	5.0	12/13/11 09:13	
1,1-Dichloroethene	ug/L	ND	5.0	12/13/11 09:13	
1,1-Dichloropropene	ug/L	ND	5.0	12/13/11 09:13	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	12/13/11 09:13	
1,2,3-Trichloropropane	ug/L	ND	5.0	12/13/11 09:13	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	12/13/11 09:13	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	12/13/11 09:13	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	12/13/11 09:13	
1,2-Dichlorobenzene	ug/L	ND	5.0	12/13/11 09:13	
1,2-Dichloroethane	ug/L	ND	5.0	12/13/11 09:13	
1,2-Dichloropropane	ug/L	ND	5.0	12/13/11 09:13	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	12/13/11 09:13	
1,3-Dichlorobenzene	ug/L	ND	5.0	12/13/11 09:13	
1,3-Dichloropropane	ug/L	ND	5.0	12/13/11 09:13	
1,4-Dichlorobenzene	ug/L	ND	5.0	12/13/11 09:13	
2,2-Dichloropropane	ug/L	ND	5.0	12/13/11 09:13	
2-Butanone (MEK)	ug/L	ND	25.0	12/13/11 09:13	
2-Chlorotoluene	ug/L	ND	5.0	12/13/11 09:13	
2-Hexanone	ug/L	ND	25.0	12/13/11 09:13	
4-Chlorotoluene	ug/L	ND	5.0	12/13/11 09:13	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	12/13/11 09:13	
Acetone	ug/L	ND	100	12/13/11 09:13	
Acrolein	ug/L	ND	50.0	12/13/11 09:13	
Acrylonitrile	ug/L	ND	100	12/13/11 09:13	
Benzene	ug/L	ND	5.0	12/13/11 09:13	
Bromobenzene	ug/L	ND	5.0	12/13/11 09:13	
Bromochloromethane	ug/L	ND	5.0	12/13/11 09:13	
Bromodichloromethane	ug/L	ND	5.0	12/13/11 09:13	
Bromoform	ug/L	ND	5.0	12/13/11 09:13	
Bromomethane	ug/L	ND	5.0	12/13/11 09:13	
Carbon disulfide	ug/L	ND	10.0	12/13/11 09:13	
Carbon tetrachloride	ug/L	ND	5.0	12/13/11 09:13	
Chlorobenzene	ug/L	ND	5.0	12/13/11 09:13	
Chloroethane	ug/L	ND	5.0	12/13/11 09:13	
Chloroform	ug/L	ND	5.0	12/13/11 09:13	
Chloromethane	ug/L	ND	5.0	12/13/11 09:13	
cis-1,2-Dichloroethene	ug/L	ND	5.0	12/13/11 09:13	
cis-1,3-Dichloropropene	ug/L	ND	5.0	12/13/11 09:13	
Dibromochloromethane	ug/L	ND	5.0	12/13/11 09:13	

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QUALITY CONTROL DATA

Project: Michigan Plaza
Pace Project No.: 5055793

METHOD BLANK: 659953 Matrix: Water

Associated Lab Samples: 5055793001, 5055793002, 5055793003, 5055793004, 5055793005, 5055793006, 5055793007, 5055793008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	5.0	12/13/11 09:13	
Dichlorodifluoromethane	ug/L	ND	5.0	12/13/11 09:13	
Ethyl methacrylate	ug/L	ND	100	12/13/11 09:13	
Ethylbenzene	ug/L	ND	5.0	12/13/11 09:13	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	12/13/11 09:13	
Iodomethane	ug/L	ND	10.0	12/13/11 09:13	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	12/13/11 09:13	
Methyl-tert-butyl ether	ug/L	ND	4.0	12/13/11 09:13	
Methylene Chloride	ug/L	ND	5.0	12/13/11 09:13	
n-Butylbenzene	ug/L	ND	5.0	12/13/11 09:13	
n-Hexane	ug/L	ND	5.0	12/13/11 09:13	N2
n-Propylbenzene	ug/L	ND	5.0	12/13/11 09:13	
Naphthalene	ug/L	ND	5.0	12/13/11 09:13	
p-Isopropyltoluene	ug/L	ND	5.0	12/13/11 09:13	
sec-Butylbenzene	ug/L	ND	5.0	12/13/11 09:13	
Styrene	ug/L	ND	5.0	12/13/11 09:13	
tert-Butylbenzene	ug/L	ND	5.0	12/13/11 09:13	
Tetrachloroethene	ug/L	ND	5.0	12/13/11 09:13	
Toluene	ug/L	ND	5.0	12/13/11 09:13	
trans-1,2-Dichloroethene	ug/L	ND	5.0	12/13/11 09:13	
trans-1,3-Dichloropropene	ug/L	ND	5.0	12/13/11 09:13	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	12/13/11 09:13	
Trichloroethene	ug/L	ND	5.0	12/13/11 09:13	
Trichlorofluoromethane	ug/L	ND	5.0	12/13/11 09:13	
Vinyl acetate	ug/L	ND	50.0	12/13/11 09:13	
Vinyl chloride	ug/L	ND	2.0	12/13/11 09:13	
Xylene (Total)	ug/L	ND	10.0	12/13/11 09:13	
4-Bromofluorobenzene (S)	%.	103	72-125	12/13/11 09:13	
Dibromofluoromethane (S)	%.	104	83-123	12/13/11 09:13	
Toluene-d8 (S)	%.	93	81-114	12/13/11 09:13	

LABORATORY CONTROL SAMPLE: 659954

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	46.3	93	69-122	
1,1,1-Trichloroethane	ug/L	50	55.8	112	69-126	
1,1,2,2-Tetrachloroethane	ug/L	50	42.9	86	68-134	
1,1,2-Trichloroethane	ug/L	50	53.2	106	77-129	
1,1-Dichloroethane	ug/L	50	54.2	108	70-127	
1,1-Dichloroethene	ug/L	50	56.3	113	75-145	
1,1-Dichloropropene	ug/L	50	55.5	111	75-126	
1,2,3-Trichlorobenzene	ug/L	50	44.6	89	63-130	
1,2,3-Trichloropropane	ug/L	50	116	232	45-121	L3
1,2,4-Trichlorobenzene	ug/L	50	48.4	97	64-122	
1,2,4-Trimethylbenzene	ug/L	50	42.4	85	68-129	

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QUALITY CONTROL DATA

Project: Michigan Plaza
Pace Project No.: 5055793

LABORATORY CONTROL SAMPLE: 659954

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	50	55.0	110	77-123	
1,2-Dichlorobenzene	ug/L	50	41.2	82	74-123	
1,2-Dichloroethane	ug/L	50	57.5	115	71-127	
1,2-Dichloropropane	ug/L	50	49.9	100	75-126	
1,3,5-Trimethylbenzene	ug/L	50	39.1	78	69-129	
1,3-Dichlorobenzene	ug/L	50	47.5	95	76-123	
1,3-Dichloropropane	ug/L	50	50.7	101	77-126	
1,4-Dichlorobenzene	ug/L	50	48.5	97	77-121	
2,2-Dichloropropane	ug/L	50	54.3	109	45-138	
2-Butanone (MEK)	ug/L	250	397	159	42-177	
2-Chlorotoluene	ug/L	50	48.3	97	74-129	
2-Hexanone	ug/L	250	243	97	57-162	
4-Chlorotoluene	ug/L	50	45.3	91	70-125	
4-Methyl-2-pentanone (MIBK)	ug/L	250	241	96	64-135	
Acetone	ug/L	250	572	229	10-200	L3
Acrolein	ug/L	1000	1340	134	10-200	
Acrylonitrile	ug/L	1000	1150	115	59-144	
Benzene	ug/L	50	48.4	97	76-123	
Bromobenzene	ug/L	50	38.1	76	67-130	
Bromochloromethane	ug/L	50	58.3	117	58-153	
Bromodichloromethane	ug/L	50	48.4	97	71-124	
Bromoform	ug/L	50	51.9	104	64-116	
Bromomethane	ug/L	50	65.7	131	23-197	
Carbon disulfide	ug/L	100	121	121	55-146	
Carbon tetrachloride	ug/L	50	54.1	108	65-125	
Chlorobenzene	ug/L	50	51.6	103	78-120	
Chloroethane	ug/L	50	61.3	123	56-163	
Chloroform	ug/L	50	50.8	102	73-122	
Chloromethane	ug/L	50	42.8	86	46-146	
cis-1,2-Dichloroethene	ug/L	50	51.2	102	79-129	
cis-1,3-Dichloropropene	ug/L	50	52.3	105	66-123	
Dibromochloromethane	ug/L	50	50.7	101	70-123	
Dibromomethane	ug/L	50	58.6	117	73-123	
Dichlorodifluoromethane	ug/L	50	57.1	114	19-200	
Ethyl methacrylate	ug/L	200	184	92	70-127	
Ethylbenzene	ug/L	50	47.3	95	75-120	
Hexachloro-1,3-butadiene	ug/L	50	36.0	72	64-131	
Iodomethane	ug/L	100	143	143	16-181	
Isopropylbenzene (Cumene)	ug/L	50	41.4	83	73-123	
Methyl-tert-butyl ether	ug/L	100	99.6	100	66-128	
Methylene Chloride	ug/L	50	51.4	103	61-138	
n-Butylbenzene	ug/L	50	42.7	85	69-130	
n-Hexane	ug/L	50	46.6	93	67-142	N2
n-Propylbenzene	ug/L	50	47.5	95	71-132	
Naphthalene	ug/L	50	47.6	95	62-130	
p-Isopropyltoluene	ug/L	50	38.3	77	71-126	
sec-Butylbenzene	ug/L	50	37.8	76	69-130	
Styrene	ug/L	50	46.7	93	75-125	

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QUALITY CONTROL DATA

Project: Michigan Plaza
Pace Project No.: 5055793

LABORATORY CONTROL SAMPLE: 659954

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	31.8	64	49-114	
Tetrachloroethene	ug/L	50	56.0	112	57-125	
Toluene	ug/L	50	46.5	93	72-124	
trans-1,2-Dichloroethene	ug/L	50	52.7	105	71-145	
trans-1,3-Dichloropropene	ug/L	50	53.2	106	58-118	
trans-1,4-Dichloro-2-butene	ug/L	200	205	102	50-121	
Trichloroethene	ug/L	50	49.5	99	77-122	
Trichlorofluoromethane	ug/L	50	60.6	121	56-159	
Vinyl acetate	ug/L	200	216	108	27-119	
Vinyl chloride	ug/L	50	48.0	96	61-146	
Xylene (Total)	ug/L	150	134	89	72-126	
4-Bromofluorobenzene (S)	%.			93	72-125	
Dibromofluoromethane (S)	%.			107	83-123	
Toluene-d8 (S)	%.			101	81-114	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 659955 659956

Parameter	Units	5055793004 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/L	ND	50	50	46.5	43.9	93	88	30-122	6	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	58.3	55.8	117	112	37-136	4	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	44.1	43.2	88	86	47-132	2	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	57.4	55.0	115	110	53-131	4	20	
1,1-Dichloroethane	ug/L	ND	50	50	58.8	55.9	118	112	47-138	5	20	
1,1-Dichloroethene	ug/L	ND	50	50	59.5	56.4	119	113	54-152	5	20	
1,1-Dichloropropene	ug/L	ND	50	50	56.6	53.0	113	106	47-136	6	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	37.4	32.6	75	65	15-132	14	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	119	113	238	225	24-108	6	20	M0
1,2,4-Trichlorobenzene	ug/L	ND	50	50	37.5	32.3	75	65	10-130	15	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	35.3	32.2	71	64	10-141	9	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	58.3	55.4	117	111	49-130	5	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	36.8	33.4	74	67	20-137	10	20	
1,2-Dichloroethane	ug/L	ND	50	50	61.2	57.5	122	115	42-139	6	20	
1,2-Dichloropropane	ug/L	ND	50	50	51.7	49.4	103	99	50-131	5	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	32.4	29.5	65	59	10-145	9	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	41.2	37.2	82	74	13-143	10	20	
1,3-Dichloropropane	ug/L	ND	50	50	54.8	51.9	110	104	53-130	5	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	41.8	38.0	84	76	13-140	9	20	
2,2-Dichloropropane	ug/L	ND	50	50	56.5	53.3	113	107	13-142	6	20	
2-Butanone (MEK)	ug/L	ND	250	250	484	460	194	184	43-142	5	20	M0
2-Chlorotoluene	ug/L	ND	50	50	42.2	38.1	84	76	15-145	10	20	
2-Hexanone	ug/L	ND	250	250	290	275	116	110	46-139	5	20	
4-Chlorotoluene	ug/L	ND	50	50	39.9	37.0	80	74	12-143	7	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	268	260	107	104	43-140	3	20	
Acetone	ug/L	ND	250	250	768	714	307	286	38-155	7	20	M0
Acrolein	ug/L	ND	1000	1000	1500	1450	150	145	11-200	3	20	
Acrylonitrile	ug/L	ND	1000	1000	1280	1240	128	124	42-150	3	20	

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QUALITY CONTROL DATA

Project: Michigan Plaza
Pace Project No.: 5055793

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 659955 659956

Parameter	Units	5055793004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	50	50	51.6	48.2	103	96	52-134	7	20	
Bromobenzene	ug/L	ND	50	50	36.9	34.1	74	68	25-140	8	20	
Bromochloromethane	ug/L	ND	50	50	64.5	61.0	129	122	54-144	6	20	
Bromodichloromethane	ug/L	ND	50	50	52.7	50.0	105	100	42-128	5	20	
Bromoform	ug/L	ND	50	50	54.6	52.0	109	104	34-116	5	20	
Bromomethane	ug/L	ND	50	50	64.3	64.4	129	129	10-200	.3	20	
Carbon disulfide	ug/L	ND	100	100	128	120	128	120	43-144	6	20	
Carbon tetrachloride	ug/L	ND	50	50	55.6	52.6	111	105	26-136	6	20	
Chlorobenzene	ug/L	ND	50	50	50.2	46.4	100	93	33-136	8	20	
Chloroethane	ug/L	ND	50	50	69.4	64.1	139	128	21-200	8	20	
Chloroform	ug/L	ND	50	50	54.3	51.3	109	103	50-134	6	20	
Chloromethane	ug/L	ND	50	50	48.2	45.4	96	91	32-160	6	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	54.5	51.1	109	102	48-145	6	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	54.8	51.4	110	103	35-116	6	20	
Dibromochloromethane	ug/L	ND	50	50	53.3	50.3	107	101	39-122	6	20	
Dibromomethane	ug/L	ND	50	50	62.6	59.8	125	120	49-134	5	20	
Dichlorodifluoromethane	ug/L	ND	50	50	66.2	61.7	132	123	35-200	7	20	HS,p2
Ethyl methacrylate	ug/L	ND	200	200	200	190	100	95	54-123	5	20	
Ethylbenzene	ug/L	ND	50	50	44.2	41.0	88	82	29-132	8	20	
Hexachloro-1,3-butadiene	ug/L	ND	50	50	22.1	18.5	44	37	10-146	18	20	
Iodomethane	ug/L	ND	100	100	156	145	156	145	10-171	7	20	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	36.9	33.6	74	67	11-146	9	20	
Methyl-tert-butyl ether	ug/L	ND	100	100	109	104	109	104	39-137	5	20	
Methylene Chloride	ug/L	ND	50	50	55.2	52.5	110	105	47-141	5	20	
n-Butylbenzene	ug/L	ND	50	50	30.7	26.3	61	53	10-156	15	20	
n-Hexane	ug/L	ND	50	50	48.0	46.7	96	93	51-137	3	20	N2
n-Propylbenzene	ug/L	ND	50	50	39.5	35.8	79	72	10-148	10	20	
Naphthalene	ug/L	ND	50	50	45.7	41.5	91	83	40-124	10	20	
p-Isopropyltoluene	ug/L	ND	50	50	28.4	26.0	57	52	10-150	9	20	
sec-Butylbenzene	ug/L	ND	50	50	29.3	26.7	59	53	10-150	9	20	
Styrene	ug/L	ND	50	50	44.2	40.5	88	81	20-143	9	20	
tert-Butylbenzene	ug/L	ND	50	50	26.2	28.7	52	57	10-123	9	20	
Tetrachloroethene	ug/L	ND	50	50	52.8	49.0	106	98	30-124	8	20	
Toluene	ug/L	ND	50	50	47.1	43.8	93	87	42-130	7	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	55.9	52.4	112	105	48-144	7	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	54.4	52.4	109	105	24-114	4	20	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	219	202	109	101	22-120	8	20	
Trichloroethene	ug/L	ND	50	50	50.5	46.7	101	93	44-130	8	20	
Trichlorofluoromethane	ug/L	ND	50	50	66.7	62.8	133	126	17-200	6	20	
Vinyl acetate	ug/L	ND	200	200	212	200	106	100	10-115	6	20	
Vinyl chloride	ug/L	ND	50	50	54.4	50.4	109	101	45-159	8	20	
Xylene (Total)	ug/L	ND	150	150	125	114	84	76	29-131	9	20	
4-Bromofluorobenzene (S)	%.						93	92	72-125		20	
Dibromofluoromethane (S)	%.						107	107	83-123		20	
Toluene-d8 (S)	%.						103	103	81-114		20	

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QUALITY CONTROL DATA

Project: Michigan Plaza
Pace Project No.: 5055793

QC Batch: MSV/38040
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Associated Lab Samples: 5055793009

METHOD BLANK: 660101
Matrix: Water
Associated Lab Samples: 5055793009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	12/13/11 20:27	
1,1,1-Trichloroethane	ug/L	ND	5.0	12/13/11 20:27	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	12/13/11 20:27	
1,1,2-Trichloroethane	ug/L	ND	5.0	12/13/11 20:27	
1,1-Dichloroethane	ug/L	ND	5.0	12/13/11 20:27	
1,1-Dichloroethene	ug/L	ND	5.0	12/13/11 20:27	
1,1-Dichloropropene	ug/L	ND	5.0	12/13/11 20:27	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	12/13/11 20:27	
1,2,3-Trichloropropane	ug/L	ND	5.0	12/13/11 20:27	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	12/13/11 20:27	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	12/13/11 20:27	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	12/13/11 20:27	
1,2-Dichlorobenzene	ug/L	ND	5.0	12/13/11 20:27	
1,2-Dichloroethane	ug/L	ND	5.0	12/13/11 20:27	
1,2-Dichloropropane	ug/L	ND	5.0	12/13/11 20:27	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	12/13/11 20:27	
1,3-Dichlorobenzene	ug/L	ND	5.0	12/13/11 20:27	
1,3-Dichloropropane	ug/L	ND	5.0	12/13/11 20:27	
1,4-Dichlorobenzene	ug/L	ND	5.0	12/13/11 20:27	
2,2-Dichloropropane	ug/L	ND	5.0	12/13/11 20:27	
2-Butanone (MEK)	ug/L	ND	25.0	12/13/11 20:27	
2-Chlorotoluene	ug/L	ND	5.0	12/13/11 20:27	
2-Hexanone	ug/L	ND	25.0	12/13/11 20:27	
4-Chlorotoluene	ug/L	ND	5.0	12/13/11 20:27	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	12/13/11 20:27	
Acetone	ug/L	ND	100	12/13/11 20:27	
Acrolein	ug/L	ND	50.0	12/13/11 20:27	
Acrylonitrile	ug/L	ND	100	12/13/11 20:27	
Benzene	ug/L	ND	5.0	12/13/11 20:27	
Bromobenzene	ug/L	ND	5.0	12/13/11 20:27	
Bromochloromethane	ug/L	ND	5.0	12/13/11 20:27	
Bromodichloromethane	ug/L	ND	5.0	12/13/11 20:27	
Bromoform	ug/L	ND	5.0	12/13/11 20:27	
Bromomethane	ug/L	ND	5.0	12/13/11 20:27	
Carbon disulfide	ug/L	ND	10.0	12/13/11 20:27	
Carbon tetrachloride	ug/L	ND	5.0	12/13/11 20:27	
Chlorobenzene	ug/L	ND	5.0	12/13/11 20:27	
Chloroethane	ug/L	ND	5.0	12/13/11 20:27	
Chloroform	ug/L	ND	5.0	12/13/11 20:27	
Chloromethane	ug/L	ND	5.0	12/13/11 20:27	
cis-1,2-Dichloroethene	ug/L	ND	5.0	12/13/11 20:27	
cis-1,3-Dichloropropene	ug/L	ND	5.0	12/13/11 20:27	
Dibromochloromethane	ug/L	ND	5.0	12/13/11 20:27	

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QUALITY CONTROL DATA

Project: Michigan Plaza
Pace Project No.: 5055793

METHOD BLANK: 660101 Matrix: Water

Associated Lab Samples: 5055793009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	5.0	12/13/11 20:27	
Dichlorodifluoromethane	ug/L	ND	5.0	12/13/11 20:27	
Ethyl methacrylate	ug/L	ND	100	12/13/11 20:27	
Ethylbenzene	ug/L	ND	5.0	12/13/11 20:27	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	12/13/11 20:27	
Iodomethane	ug/L	ND	10.0	12/13/11 20:27	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	12/13/11 20:27	
Methyl-tert-butyl ether	ug/L	ND	4.0	12/13/11 20:27	
Methylene Chloride	ug/L	ND	5.0	12/13/11 20:27	
n-Butylbenzene	ug/L	ND	5.0	12/13/11 20:27	
n-Hexane	ug/L	ND	5.0	12/13/11 20:27	N2
n-Propylbenzene	ug/L	ND	5.0	12/13/11 20:27	
Naphthalene	ug/L	ND	5.0	12/13/11 20:27	
p-Isopropyltoluene	ug/L	ND	5.0	12/13/11 20:27	
sec-Butylbenzene	ug/L	ND	5.0	12/13/11 20:27	
Styrene	ug/L	ND	5.0	12/13/11 20:27	
tert-Butylbenzene	ug/L	ND	5.0	12/13/11 20:27	
Tetrachloroethene	ug/L	ND	5.0	12/13/11 20:27	
Toluene	ug/L	ND	5.0	12/13/11 20:27	
trans-1,2-Dichloroethene	ug/L	ND	5.0	12/13/11 20:27	
trans-1,3-Dichloropropene	ug/L	ND	5.0	12/13/11 20:27	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	12/13/11 20:27	
Trichloroethene	ug/L	ND	5.0	12/13/11 20:27	
Trichlorofluoromethane	ug/L	ND	5.0	12/13/11 20:27	
Vinyl acetate	ug/L	ND	50.0	12/13/11 20:27	
Vinyl chloride	ug/L	ND	2.0	12/13/11 20:27	
Xylene (Total)	ug/L	ND	10.0	12/13/11 20:27	
4-Bromofluorobenzene (S)	%.	106	72-125	12/13/11 20:27	
Dibromofluoromethane (S)	%.	101	83-123	12/13/11 20:27	
Toluene-d8 (S)	%.	93	81-114	12/13/11 20:27	

LABORATORY CONTROL SAMPLE: 660102

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	46.3	93	69-122	
1,1,1-Trichloroethane	ug/L	50	54.2	108	69-126	
1,1,2,2-Tetrachloroethane	ug/L	50	43.8	88	68-134	
1,1,2-Trichloroethane	ug/L	50	51.2	102	77-129	
1,1-Dichloroethane	ug/L	50	53.9	108	70-127	
1,1-Dichloroethene	ug/L	50	57.2	114	75-145	
1,1-Dichloropropene	ug/L	50	53.4	107	75-126	
1,2,3-Trichlorobenzene	ug/L	50	39.0	78	63-130	
1,2,3-Trichloropropane	ug/L	50	111	222	45-121	L3
1,2,4-Trichlorobenzene	ug/L	50	39.5	79	64-122	
1,2,4-Trimethylbenzene	ug/L	50	42.2	84	68-129	

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Pace Analytical Services, Inc.
7726 Moller Road
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(317)875-5894

QUALITY CONTROL DATA

Project: Michigan Plaza
Pace Project No.: 5055793

LABORATORY CONTROL SAMPLE: 660102

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	50	55.1	110	77-123	
1,2-Dichlorobenzene	ug/L	50	40.2	80	74-123	
1,2-Dichloroethane	ug/L	50	54.5	109	71-127	
1,2-Dichloropropane	ug/L	50	48.7	97	75-126	
1,3,5-Trimethylbenzene	ug/L	50	38.5	77	69-129	
1,3-Dichlorobenzene	ug/L	50	45.1	90	76-123	
1,3-Dichloropropane	ug/L	50	52.4	105	77-126	
1,4-Dichlorobenzene	ug/L	50	46.4	93	77-121	
2,2-Dichloropropane	ug/L	50	50.7	101	45-138	
2-Butanone (MEK)	ug/L	250	297	119	42-177	
2-Chlorotoluene	ug/L	50	47.6	95	74-129	
2-Hexanone	ug/L	250	208	83	57-162	
4-Chlorotoluene	ug/L	50	45.6	91	70-125	
4-Methyl-2-pentanone (MIBK)	ug/L	250	229	92	64-135	
Acetone	ug/L	250	333	133	10-200	
Acrolein	ug/L	1000	1400	140	10-200	
Acrylonitrile	ug/L	1000	1080	108	59-144	
Benzene	ug/L	50	49.0	98	76-123	
Bromobenzene	ug/L	50	39.0	78	67-130	
Bromochloromethane	ug/L	50	56.1	112	58-153	
Bromodichloromethane	ug/L	50	49.2	98	71-124	
Bromoform	ug/L	50	51.2	102	64-116	
Bromomethane	ug/L	50	66.5	133	23-197	
Carbon disulfide	ug/L	100	125	125	55-146	
Carbon tetrachloride	ug/L	50	51.7	103	65-125	
Chlorobenzene	ug/L	50	51.7	103	78-120	
Chloroethane	ug/L	50	64.8	130	56-163	
Chloroform	ug/L	50	50.3	101	73-122	
Chloromethane	ug/L	50	42.2	84	46-146	
cis-1,2-Dichloroethene	ug/L	50	50.9	102	79-129	
cis-1,3-Dichloropropene	ug/L	50	52.0	104	66-123	
Dibromochloromethane	ug/L	50	50.4	101	70-123	
Dibromomethane	ug/L	50	57.2	114	73-123	
Dichlorodifluoromethane	ug/L	50	55.2	110	19-200	
Ethyl methacrylate	ug/L	200	190	95	70-127	
Ethylbenzene	ug/L	50	47.4	95	75-120	
Hexachloro-1,3-butadiene	ug/L	50	31.3	63	64-131	L0
Iodomethane	ug/L	100	145	145	16-181	
Isopropylbenzene (Cumene)	ug/L	50	41.2	82	73-123	
Methyl-tert-butyl ether	ug/L	100	102	102	66-128	
Methylene Chloride	ug/L	50	54.4	109	61-138	
n-Butylbenzene	ug/L	50	38.4	77	69-130	
n-Hexane	ug/L	50	45.0	90	67-142	N2
n-Propylbenzene	ug/L	50	46.2	92	71-132	
Naphthalene	ug/L	50	44.4	89	62-130	
p-Isopropyltoluene	ug/L	50	36.4	73	71-126	
sec-Butylbenzene	ug/L	50	36.9	74	69-130	
Styrene	ug/L	50	46.9	94	75-125	

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(317)875-5894

QUALITY CONTROL DATA

Project: Michigan Plaza
Pace Project No.: 5055793

LABORATORY CONTROL SAMPLE: 660102

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	30.9	62	49-114	
Tetrachloroethene	ug/L	50	53.5	107	57-125	
Toluene	ug/L	50	46.6	93	72-124	
trans-1,2-Dichloroethene	ug/L	50	52.0	104	71-145	
trans-1,3-Dichloropropene	ug/L	50	53.5	107	58-118	
trans-1,4-Dichloro-2-butene	ug/L	200	179	89	50-121	
Trichloroethene	ug/L	50	48.6	97	77-122	
Trichlorofluoromethane	ug/L	50	58.6	117	56-159	
Vinyl acetate	ug/L	200	203	101	27-119	
Vinyl chloride	ug/L	50	49.7	99	61-146	
Xylene (Total)	ug/L	150	134	89	72-126	
4-Bromofluorobenzene (S)	%.			93	72-125	
Dibromofluoromethane (S)	%.			106	83-123	
Toluene-d8 (S)	%.			103	81-114	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 660103 660104

Parameter	Units	5055522002 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/L	ND	50	50	41.6	44.7	83	89	30-122	7	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	51.9	54.4	104	109	37-136	5	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	43.1	44.2	86	88	47-132	3	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	51.7	54.6	103	109	53-131	5	20	
1,1-Dichloroethane	ug/L	ND	50	50	54.2	57.4	108	115	47-138	6	20	
1,1-Dichloroethene	ug/L	ND	50	50	55.4	58.5	111	117	54-152	6	20	
1,1-Dichloropropene	ug/L	ND	50	50	48.7	51.8	97	104	47-136	6	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	26.2	26.5	52	53	15-132	1	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	104	106	208	212	24-108	2	20	M0
1,2,4-Trichlorobenzene	ug/L	ND	50	50	25.4	25.7	51	51	10-130	1	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	24.7	23.6	49	47	10-141	5	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	51.7	54.7	103	109	49-130	6	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	28.7	29.3	57	59	20-137	2	20	
1,2-Dichloroethane	ug/L	ND	50	50	55.4	57.0	111	114	42-139	3	20	
1,2-Dichloropropane	ug/L	ND	50	50	49.3	51.8	99	104	50-131	5	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	23.3	22.2	47	44	10-145	5	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	31.4	31.6	63	63	13-143	.7	20	
1,3-Dichloropropane	ug/L	ND	50	50	49.6	51.5	99	103	53-130	4	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	31.6	31.7	63	63	13-140	.2	20	
2,2-Dichloropropane	ug/L	ND	50	50	48.8	51.8	98	104	13-142	6	20	
2-Butanone (MEK)	ug/L	ND	250	250	326	323	131	129	43-142	1	20	
2-Chlorotoluene	ug/L	ND	50	50	32.1	32.1	64	64	15-145	.03	20	
2-Hexanone	ug/L	ND	250	250	221	222	89	89	46-139	.2	20	
4-Chlorotoluene	ug/L	ND	50	50	31.6	32.1	63	64	12-143	2	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	249	254	100	101	43-140	2	20	
Acetone	ug/L	ND	250	250	351	349	140	140	38-155	.5	20	
Acrolein	ug/L	ND	1000	1000	1210	1220	121	122	11-200	.8	20	
Acrylonitrile	ug/L	ND	1000	1000	1170	1160	117	116	42-150	.9	20	

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QUALITY CONTROL DATA

Project: Michigan Plaza
Pace Project No.: 5055793

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 660103 660104

Parameter	Units	5055522002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	50	50	46.5	49.1	93	98	52-134	6	20	
Bromobenzene	ug/L	ND	50	50	31.0	31.6	62	63	25-140	2	20	
Bromochloromethane	ug/L	ND	50	50	58.5	60.7	117	121	54-144	4	20	
Bromodichloromethane	ug/L	ND	50	50	45.7	49.3	91	99	42-128	8	20	
Bromoform	ug/L	ND	50	50	48.9	50.1	98	100	34-116	3	20	
Bromomethane	ug/L	ND	50	50	63.0	67.3	126	135	10-200	7	20	
Carbon disulfide	ug/L	ND	100	100	115	123	115	123	43-144	7	20	
Carbon tetrachloride	ug/L	ND	50	50	48.2	51.6	96	103	26-136	7	20	
Chlorobenzene	ug/L	ND	50	50	41.1	42.9	82	86	33-136	4	20	
Chloroethane	ug/L	ND	50	50	66.2	71.0	132	142	21-200	7	20	
Chloroform	ug/L	ND	50	50	49.2	51.1	98	102	50-134	4	20	
Chloromethane	ug/L	ND	50	50	45.2	46.4	90	93	32-160	3	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	50.0	52.8	100	106	48-145	5	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	47.2	50.1	94	100	35-116	6	20	
Dibromochloromethane	ug/L	ND	50	50	46.6	49.2	93	98	39-122	5	20	
Dibromomethane	ug/L	ND	50	50	55.8	58.8	112	118	49-134	5	20	
Dichlorodifluoromethane	ug/L	ND	50	50	59.8	62.1	120	124	35-200	4	20	
Ethyl methacrylate	ug/L	ND	200	200	175	176	88	88	54-123	.06	20	
Ethylbenzene	ug/L	ND	50	50	34.8	35.7	70	71	29-132	2	20	
Hexachloro-1,3-butadiene	ug/L	ND	50	50	12.1	11.4	24	23	10-146	6	20	
Iodomethane	ug/L	ND	100	100	143	151	143	151	10-171	6	20	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	28.3	28.5	57	57	11-146	.7	20	
Methyl-tert-butyl ether	ug/L	ND	100	100	103	106	103	106	39-137	3	20	
Methylene Chloride	ug/L	ND	50	50	52.6	54.4	105	109	47-141	3	20	
n-Butylbenzene	ug/L	ND	50	50	19.5	18.2	39	36	10-156	6	20	
n-Hexane	ug/L	ND	50	50	43.4	46.3	87	93	51-137	6	20	N2
n-Propylbenzene	ug/L	ND	50	50	28.8	28.4	58	57	10-148	1	20	
Naphthalene	ug/L	ND	50	50	37.0	37.8	74	76	40-124	2	20	
p-Isopropyltoluene	ug/L	ND	50	50	19.3	18.9	39	38	10-150	2	20	
sec-Butylbenzene	ug/L	ND	50	50	21.0	20.8	42	42	10-150	.7	20	
Styrene	ug/L	ND	50	50	30.1	27.2	60	54	20-143	10	20	
tert-Butylbenzene	ug/L	ND	50	50	20.5	21.0	41	42	10-123	3	20	
Tetrachloroethene	ug/L	ND	50	50	42.7	44.7	83	87	30-124	5	20	
Toluene	ug/L	ND	50	50	38.9	41.1	78	82	42-130	6	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	49.4	52.5	99	105	48-144	6	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	46.6	49.3	93	99	24-114	6	20	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	179	183	89	91	22-120	2	20	
Trichloroethene	ug/L	ND	50	50	43.2	44.9	86	90	44-130	4	20	
Trichlorofluoromethane	ug/L	ND	50	50	58.9	61.3	118	123	17-200	4	20	
Vinyl acetate	ug/L	ND	200	200	154	156	77	78	10-115	2	20	
Vinyl chloride	ug/L	ND	50	50	50.7	53.1	101	106	45-159	5	20	
Xylene (Total)	ug/L	ND	150	150	95.8	97.3	64	65	29-131	2	20	
4-Bromofluorobenzene (S)	%.						93	93	72-125		20	
Dibromofluoromethane (S)	%.						104	103	83-123		20	
Toluene-d8 (S)	%.						102	102	81-114		20	

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7726 Moller Road
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QUALITY CONTROL DATA

Project: Michigan Plaza
Pace Project No.: 5055793

QC Batch: WET/10560 Analysis Method: Walkley Black
QC Batch Method: Walkley Black Analysis Description: Organic Carbon Walkley Black
Associated Lab Samples: 5055793010, 5055793011, 5055793012

METHOD BLANK: 546097 Matrix: Solid
Associated Lab Samples: 5055793010, 5055793011, 5055793012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/kg	ND	400	12/15/11 15:03	

LABORATORY CONTROL SAMPLE: 546098

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/kg	16000	15700	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 546099 546100

Parameter	Units	5055793011 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	4520	15900	15900	18900	19700	90	95	80-120	4	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 546101 546102

Parameter	Units	20942573001 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	7000	16000	16000	23600	24000	104	106	80-120	1	20	

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QUALIFIERS

Project: Michigan Plaza
Pace Project No.: 5055793

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.

LABORATORIES

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

ANALYTE QUALIFIERS

HS	Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
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.
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.
p2	Post-analysis pH measurement indicates pH > 2.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Michigan Plaza
Pace Project No.: 5055793

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5055793001	**GP-25 28'**	EPA 8260	MSV/38035		
5055793002	**GP-25 38'**	EPA 8260	MSV/38035		
5055793003	**GP-26 25'**	EPA 8260	MSV/38035		
5055793004	**GP-26 32'**	EPA 8260	MSV/38035		
5055793005	**GP-27 26'**	EPA 8260	MSV/38035		
5055793006	**GP-27 36'**	EPA 8260	MSV/38035		
5055793007	**Trip Blank**	EPA 8260	MSV/38035		
5055793008	**GP-28 38.5'**	EPA 8260	MSV/38035		
5055793009	**GP-28 28'**	EPA 8260	MSV/38040		
5055793010	**GP-28 17-19'**	Walkley Black	WET/10560		
5055793011	**GP-25 18-20'**	Walkley Black	WET/10560		
5055793012	**GP-26 18-20'**	Walkley Black	WET/10560		

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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

1514885

Section A Required Client Information:
Company: Mundell
Address:
Email To: SWebb@mundellassociates.com
Phone: Fax:
Requested Due Date/TAT: 5 DAYS

Section B Required Project Information:
Report To: SARAH WEBB
Copy To:
Purchase Order No.:
Project Name: Michigan Plaza
Project Number: M01046

Section C Invoice Information:
Attention: MERLE 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: 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	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED 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)	8260 VOCs	TOC Walkley Black	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	GP-25 28'			12/9/11	1130				3	X									X			001
2	GP-25 38'			12/9/11	1120				3	X									X			002
3	GP-26 25'			12/9	1340				3	X									X			003
4	GP-26 32'			12/9	1330				3	X									X			004
5	GP-27 26'			12/9	1000				3	X									X			005
6	GP-27 36'			12/9	950				3	X									X			006
7	TRIP BLANK								3	X									X			007
8	GP-28 38.5'			12/9	1415			3	0	X									X			008
9	GP-28 28'			12/9	1430			3	0	X									X			009
10	GP-28 17-19'			12/9	1600				1	X										X		010
11	GP-25 18-20'			12/9	1100			3	0	X										X		MS/MSD 011
12	GP-26 18-20'			12/9	1300				1	X										X		012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Short hold - UNPRESERVED	Sarah Webb	12/12/11	1:05	Zekeen Tebbe	12/12/11	1:05	1.3°C	Y	N	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

ORIGINAL

WE 32 OK 27
Pace Time 2:30 pm 12/12/11 27

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

*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 # 5055793

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 Ziplocks.

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) 1.3°C Ice Visible in Sample Containers: ☐ yes ☒ no

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 12/12/11 ZT

		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 Water/SL	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. all except GP25 38', GP 27 36', 28, 38', TB GB 26 25'
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: Headspace due to sediment in vial 12/12/11 tms

Project Manager Review: _____ **Date:** 12/12/11

Sample Container Count

CLIENT: Mundell & Assoc.

COC PAGE 1 of 1
COC ID# 151485

Project # 5055793

Sample Line Item	DG9H	AG1U	WGFU	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	VG9U			Comments
1													3			
2													3			
3													3			
4													3			
5													3			
6													3			
7	3															
8													3			
9													3			
10			1													
11			3													
12			1													

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

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

December 20, 2011

Ms. Sarah Webb
Mundell & Associates
110 South Downey Ave.
Indianapolis, IN 46219

RE: Project: Michigan Plaza M01046
Pace Project No.: 5055854

Dear Ms. Webb:
Enclosed are the analytical results for sample(s) received by the laboratory on December 13, 2011. 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@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: Michigan Plaza M01046
Pace Project No.: 5055854

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
Wisconsin DATCP Certification #: 105-444

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 100418
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana/NELAC Certification #: 04076
Ohio VAP: CL0065
West Virginia Certification #: 330

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SAMPLE SUMMARY

Project: Michigan Plaza M01046
Pace Project No.: 5055854

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5055854001	**GP-24 17-19'**	Solid	12/12/11 12:45	12/13/11 11:41
5055854002	**GP-24 48'**	Water	12/12/11 14:10	12/13/11 11:41
5055854003	**GP-24 38'**	Water	12/12/11 14:20	12/13/11 11:41
5055854004	**GP-24 28'**	Water	12/12/11 14:30	12/13/11 11:41

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SAMPLE ANALYTE COUNT

Project: Michigan Plaza M01046
Pace Project No.: 5055854

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
5055854001	**GP-24 17-19'**	EPA 8260	ALA	73	PASI-I
		ASTM D2974-87	MLS	1	PASI-I
		Walkley Black	TJJ	3	PASI-G
5055854002	**GP-24 48'**	EPA 8260	ALA	73	PASI-I
5055854003	**GP-24 38'**	EPA 8260	ALA	73	PASI-I
5055854004	**GP-24 28'**	EPA 8260	ALA	73	PASI-I

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055854

Sample: GP-24 17-19' **Lab ID: 5055854001** Collected: 12/12/11 12:45 Received: 12/13/11 11:41 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	91.9	1		12/16/11 23:14	67-64-1	
Acrolein	ND	ug/kg	91.9	1		12/16/11 23:14	107-02-8	
Acrylonitrile	ND	ug/kg	91.9	1		12/16/11 23:14	107-13-1	
Benzene	ND	ug/kg	4.6	1		12/16/11 23:14	71-43-2	
Bromobenzene	ND	ug/kg	4.6	1		12/16/11 23:14	108-86-1	
Bromochloromethane	ND	ug/kg	4.6	1		12/16/11 23:14	74-97-5	
Bromodichloromethane	ND	ug/kg	4.6	1		12/16/11 23:14	75-27-4	
Bromoform	ND	ug/kg	4.6	1		12/16/11 23:14	75-25-2	
Bromomethane	ND	ug/kg	4.6	1		12/16/11 23:14	74-83-9	
2-Butanone (MEK)	ND	ug/kg	23.0	1		12/16/11 23:14	78-93-3	
n-Butylbenzene	ND	ug/kg	4.6	1		12/16/11 23:14	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.6	1		12/16/11 23:14	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.6	1		12/16/11 23:14	98-06-6	
Carbon disulfide	ND	ug/kg	9.2	1		12/16/11 23:14	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.6	1		12/16/11 23:14	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	1		12/16/11 23:14	108-90-7	
Chloroethane	ND	ug/kg	4.6	1		12/16/11 23:14	75-00-3	
Chloroform	ND	ug/kg	4.6	1		12/16/11 23:14	67-66-3	
Chloromethane	ND	ug/kg	4.6	1		12/16/11 23:14	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.6	1		12/16/11 23:14	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.6	1		12/16/11 23:14	106-43-4	
Dibromochloromethane	ND	ug/kg	4.6	1		12/16/11 23:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.6	1		12/16/11 23:14	106-93-4	
Dibromomethane	ND	ug/kg	4.6	1		12/16/11 23:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.6	1		12/16/11 23:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.6	1		12/16/11 23:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.6	1		12/16/11 23:14	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	91.9	1		12/16/11 23:14	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.6	1		12/16/11 23:14	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.6	1		12/16/11 23:14	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	1		12/16/11 23:14	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	1		12/16/11 23:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.6	1		12/16/11 23:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	1		12/16/11 23:14	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	1		12/16/11 23:14	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.6	1		12/16/11 23:14	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.6	1		12/16/11 23:14	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.6	1		12/16/11 23:14	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	1		12/16/11 23:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	1		12/16/11 23:14	10061-02-6	
Ethylbenzene	ND	ug/kg	4.6	1		12/16/11 23:14	100-41-4	
Ethyl methacrylate	ND	ug/kg	91.9	1		12/16/11 23:14	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.6	1		12/16/11 23:14	87-68-3	
n-Hexane	ND	ug/kg	4.6	1		12/16/11 23:14	110-54-3	
2-Hexanone	ND	ug/kg	91.9	1		12/16/11 23:14	591-78-6	
Iodomethane	ND	ug/kg	91.9	1		12/16/11 23:14	74-88-4	

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(317)875-5894

ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055854

Sample: GP-24 17-19' **Lab ID: 5055854001** Collected: 12/12/11 12:45 Received: 12/13/11 11:41 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		12/16/11 23:14	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.6	1		12/16/11 23:14	99-87-6	
Methylene Chloride	ND	ug/kg	18.4	1		12/16/11 23:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	23.0	1		12/16/11 23:14	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.6	1		12/16/11 23:14	1634-04-4	
Naphthalene	ND	ug/kg	4.6	1		12/16/11 23:14	91-20-3	
n-Propylbenzene	ND	ug/kg	4.6	1		12/16/11 23:14	103-65-1	
Styrene	ND	ug/kg	4.6	1		12/16/11 23:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		12/16/11 23:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.6	1		12/16/11 23:14	79-34-5	
Tetrachloroethene	ND	ug/kg	4.6	1		12/16/11 23:14	127-18-4	
Toluene	ND	ug/kg	4.6	1		12/16/11 23:14	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.6	1		12/16/11 23:14	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.6	1		12/16/11 23:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.6	1		12/16/11 23:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	1		12/16/11 23:14	79-00-5	
Trichloroethene	ND	ug/kg	4.6	1		12/16/11 23:14	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.6	1		12/16/11 23:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.6	1		12/16/11 23:14	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.6	1		12/16/11 23:14	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.6	1		12/16/11 23:14	108-67-8	
Vinyl acetate	ND	ug/kg	91.9	1		12/16/11 23:14	108-05-4	
Vinyl chloride	ND	ug/kg	4.6	1		12/16/11 23:14	75-01-4	
Xylene (Total)	ND	ug/kg	9.2	1		12/16/11 23:14	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	71-125	1		12/16/11 23:14	1868-53-7	
Toluene-d8 (S)	101	%.	76-124	1		12/16/11 23:14	2037-26-5	
4-Bromofluorobenzene (S)	97	%.	67-134	1		12/16/11 23:14	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**9.2**	%	0.10	1		12/14/11 09:24		
Organic Carbon Walkley Black	Analytical Method: Walkley Black							
Total Organic Carbon	**4200**	mg/kg	400	1		12/16/11 15:27	7440-44-0	
Total Organic Carbon	**5230**	mg/kg	400	1		12/16/11 15:27	7440-44-0	
Total Organic Carbon	**4660**	mg/kg	400	1		12/16/11 15:27	7440-44-0	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055854

Sample: GP-24 48' **Lab ID: 5055854002** Collected: 12/12/11 14:10 Received: 12/13/11 11:41 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		12/16/11 07:26	67-64-1	
Acrolein	ND	ug/L	50.0	1		12/16/11 07:26	107-02-8	
Acrylonitrile	ND	ug/L	100	1		12/16/11 07:26	107-13-1	
Benzene	ND	ug/L	5.0	1		12/16/11 07:26	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		12/16/11 07:26	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		12/16/11 07:26	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		12/16/11 07:26	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/16/11 07:26	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/16/11 07:26	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		12/16/11 07:26	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		12/16/11 07:26	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		12/16/11 07:26	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		12/16/11 07:26	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		12/16/11 07:26	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/16/11 07:26	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/16/11 07:26	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/16/11 07:26	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/16/11 07:26	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/16/11 07:26	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		12/16/11 07:26	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		12/16/11 07:26	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		12/16/11 07:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/16/11 07:26	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		12/16/11 07:26	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/16/11 07:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/16/11 07:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/16/11 07:26	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		12/16/11 07:26	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		12/16/11 07:26	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/16/11 07:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/16/11 07:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/16/11 07:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		12/16/11 07:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/16/11 07:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/16/11 07:26	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		12/16/11 07:26	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		12/16/11 07:26	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		12/16/11 07:26	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/16/11 07:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/16/11 07:26	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/16/11 07:26	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		12/16/11 07:26	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/16/11 07:26	87-68-3	
n-Hexane	ND	ug/L	5.0	1		12/16/11 07:26	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		12/16/11 07:26	591-78-6	
Iodomethane	ND	ug/L	10.0	1		12/16/11 07:26	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		12/16/11 07:26	98-82-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055854

Sample: GP-24 48' **Lab ID: 5055854002** Collected: 12/12/11 14:10 Received: 12/13/11 11:41 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		12/16/11 07:26	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		12/16/11 07:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		12/16/11 07:26	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		12/16/11 07:26	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/16/11 07:26	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		12/16/11 07:26	103-65-1	
Styrene	ND	ug/L	5.0	1		12/16/11 07:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		12/16/11 07:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/16/11 07:26	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/16/11 07:26	127-18-4	
Toluene	ND	ug/L	5.0	1		12/16/11 07:26	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		12/16/11 07:26	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		12/16/11 07:26	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/16/11 07:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/16/11 07:26	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/16/11 07:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/16/11 07:26	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		12/16/11 07:26	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		12/16/11 07:26	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		12/16/11 07:26	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		12/16/11 07:26	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		12/16/11 07:26	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/16/11 07:26	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	95	%.	83-123	1		12/16/11 07:26	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	72-125	1		12/16/11 07:26	460-00-4	
Toluene-d8 (S)	101	%.	81-114	1		12/16/11 07:26	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055854

Sample: GP-24 38' **Lab ID: 5055854003** Collected: 12/12/11 14:20 Received: 12/13/11 11:41 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		12/16/11 07:58	67-64-1	
Acrolein	ND	ug/L	50.0	1		12/16/11 07:58	107-02-8	
Acrylonitrile	ND	ug/L	100	1		12/16/11 07:58	107-13-1	
Benzene	ND	ug/L	5.0	1		12/16/11 07:58	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		12/16/11 07:58	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		12/16/11 07:58	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		12/16/11 07:58	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/16/11 07:58	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/16/11 07:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		12/16/11 07:58	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		12/16/11 07:58	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		12/16/11 07:58	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		12/16/11 07:58	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		12/16/11 07:58	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/16/11 07:58	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/16/11 07:58	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/16/11 07:58	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/16/11 07:58	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/16/11 07:58	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		12/16/11 07:58	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		12/16/11 07:58	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		12/16/11 07:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/16/11 07:58	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		12/16/11 07:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/16/11 07:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/16/11 07:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/16/11 07:58	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		12/16/11 07:58	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		12/16/11 07:58	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/16/11 07:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/16/11 07:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/16/11 07:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		12/16/11 07:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/16/11 07:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/16/11 07:58	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		12/16/11 07:58	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		12/16/11 07:58	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		12/16/11 07:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/16/11 07:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/16/11 07:58	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/16/11 07:58	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		12/16/11 07:58	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/16/11 07:58	87-68-3	
n-Hexane	ND	ug/L	5.0	1		12/16/11 07:58	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		12/16/11 07:58	591-78-6	
Iodomethane	ND	ug/L	10.0	1		12/16/11 07:58	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		12/16/11 07:58	98-82-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055854

Sample: GP-24 38' **Lab ID: 5055854003** Collected: 12/12/11 14:20 Received: 12/13/11 11:41 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		12/16/11 07:58	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		12/16/11 07:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		12/16/11 07:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		12/16/11 07:58	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/16/11 07:58	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		12/16/11 07:58	103-65-1	
Styrene	ND	ug/L	5.0	1		12/16/11 07:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		12/16/11 07:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/16/11 07:58	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/16/11 07:58	127-18-4	
Toluene	ND	ug/L	5.0	1		12/16/11 07:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		12/16/11 07:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		12/16/11 07:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/16/11 07:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/16/11 07:58	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/16/11 07:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/16/11 07:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		12/16/11 07:58	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		12/16/11 07:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		12/16/11 07:58	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		12/16/11 07:58	108-05-4	
Vinyl chloride	**4.8**	ug/L	2.0	1		12/16/11 07:58	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/16/11 07:58	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%.	83-123	1		12/16/11 07:58	1868-53-7	
4-Bromofluorobenzene (S)	99	%.	72-125	1		12/16/11 07:58	460-00-4	
Toluene-d8 (S)	102	%.	81-114	1		12/16/11 07:58	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055854

Sample: GP-24 28' **Lab ID: 5055854004** Collected: 12/12/11 14:30 Received: 12/13/11 11:41 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		12/16/11 08:30	67-64-1	
Acrolein	ND	ug/L	50.0	1		12/16/11 08:30	107-02-8	
Acrylonitrile	ND	ug/L	100	1		12/16/11 08:30	107-13-1	
Benzene	ND	ug/L	5.0	1		12/16/11 08:30	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		12/16/11 08:30	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		12/16/11 08:30	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		12/16/11 08:30	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/16/11 08:30	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/16/11 08:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		12/16/11 08:30	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		12/16/11 08:30	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		12/16/11 08:30	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		12/16/11 08:30	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		12/16/11 08:30	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/16/11 08:30	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/16/11 08:30	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/16/11 08:30	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/16/11 08:30	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/16/11 08:30	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		12/16/11 08:30	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		12/16/11 08:30	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		12/16/11 08:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/16/11 08:30	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		12/16/11 08:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/16/11 08:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/16/11 08:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/16/11 08:30	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		12/16/11 08:30	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		12/16/11 08:30	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/16/11 08:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/16/11 08:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/16/11 08:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		12/16/11 08:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/16/11 08:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/16/11 08:30	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		12/16/11 08:30	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		12/16/11 08:30	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		12/16/11 08:30	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/16/11 08:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/16/11 08:30	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/16/11 08:30	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		12/16/11 08:30	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/16/11 08:30	87-68-3	
n-Hexane	ND	ug/L	5.0	1		12/16/11 08:30	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		12/16/11 08:30	591-78-6	
Iodomethane	ND	ug/L	10.0	1		12/16/11 08:30	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		12/16/11 08:30	98-82-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055854

Sample: GP-24 28' **Lab ID: 5055854004** Collected: 12/12/11 14:30 Received: 12/13/11 11:41 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		12/16/11 08:30	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		12/16/11 08:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		12/16/11 08:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		12/16/11 08:30	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/16/11 08:30	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		12/16/11 08:30	103-65-1	
Styrene	ND	ug/L	5.0	1		12/16/11 08:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		12/16/11 08:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/16/11 08:30	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/16/11 08:30	127-18-4	
Toluene	ND	ug/L	5.0	1		12/16/11 08:30	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		12/16/11 08:30	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		12/16/11 08:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/16/11 08:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/16/11 08:30	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/16/11 08:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/16/11 08:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		12/16/11 08:30	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		12/16/11 08:30	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		12/16/11 08:30	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		12/16/11 08:30	108-05-4	
Vinyl chloride	**2.9**	ug/L	2.0	1		12/16/11 08:30	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/16/11 08:30	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%.	83-123	1		12/16/11 08:30	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	72-125	1		12/16/11 08:30	460-00-4	
Toluene-d8 (S)	102	%.	81-114	1		12/16/11 08:30	2037-26-5	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055854

QC Batch: MSV/38131 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5055854002, 5055854003, 5055854004

METHOD BLANK: 662041 Matrix: Water
Associated Lab Samples: 5055854002, 5055854003, 5055854004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	12/16/11 01:02	
1,1,1-Trichloroethane	ug/L	ND	5.0	12/16/11 01:02	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	12/16/11 01:02	
1,1,2-Trichloroethane	ug/L	ND	5.0	12/16/11 01:02	
1,1-Dichloroethane	ug/L	ND	5.0	12/16/11 01:02	
1,1-Dichloroethene	ug/L	ND	5.0	12/16/11 01:02	
1,1-Dichloropropene	ug/L	ND	5.0	12/16/11 01:02	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	12/16/11 01:02	
1,2,3-Trichloropropane	ug/L	ND	5.0	12/16/11 01:02	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	12/16/11 01:02	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	12/16/11 01:02	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	12/16/11 01:02	
1,2-Dichlorobenzene	ug/L	ND	5.0	12/16/11 01:02	
1,2-Dichloroethane	ug/L	ND	5.0	12/16/11 01:02	
1,2-Dichloropropane	ug/L	ND	5.0	12/16/11 01:02	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	12/16/11 01:02	
1,3-Dichlorobenzene	ug/L	ND	5.0	12/16/11 01:02	
1,3-Dichloropropane	ug/L	ND	5.0	12/16/11 01:02	
1,4-Dichlorobenzene	ug/L	ND	5.0	12/16/11 01:02	
2,2-Dichloropropane	ug/L	ND	5.0	12/16/11 01:02	
2-Butanone (MEK)	ug/L	ND	25.0	12/16/11 01:02	
2-Chlorotoluene	ug/L	ND	5.0	12/16/11 01:02	
2-Hexanone	ug/L	ND	25.0	12/16/11 01:02	
4-Chlorotoluene	ug/L	ND	5.0	12/16/11 01:02	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	12/16/11 01:02	
Acetone	ug/L	ND	100	12/16/11 01:02	
Acrolein	ug/L	ND	50.0	12/16/11 01:02	
Acrylonitrile	ug/L	ND	100	12/16/11 01:02	
Benzene	ug/L	ND	5.0	12/16/11 01:02	
Bromobenzene	ug/L	ND	5.0	12/16/11 01:02	
Bromochloromethane	ug/L	ND	5.0	12/16/11 01:02	
Bromodichloromethane	ug/L	ND	5.0	12/16/11 01:02	
Bromoform	ug/L	ND	5.0	12/16/11 01:02	
Bromomethane	ug/L	ND	5.0	12/16/11 01:02	
Carbon disulfide	ug/L	ND	10.0	12/16/11 01:02	
Carbon tetrachloride	ug/L	ND	5.0	12/16/11 01:02	
Chlorobenzene	ug/L	ND	5.0	12/16/11 01:02	
Chloroethane	ug/L	ND	5.0	12/16/11 01:02	
Chloroform	ug/L	ND	5.0	12/16/11 01:02	
Chloromethane	ug/L	ND	5.0	12/16/11 01:02	
cis-1,2-Dichloroethene	ug/L	ND	5.0	12/16/11 01:02	
cis-1,3-Dichloropropene	ug/L	ND	5.0	12/16/11 01:02	
Dibromochloromethane	ug/L	ND	5.0	12/16/11 01:02	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055854

METHOD BLANK: 662041 Matrix: Water

Associated Lab Samples: 5055854002, 5055854003, 5055854004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	5.0	12/16/11 01:02	
Dichlorodifluoromethane	ug/L	ND	5.0	12/16/11 01:02	
Ethyl methacrylate	ug/L	ND	100	12/16/11 01:02	
Ethylbenzene	ug/L	ND	5.0	12/16/11 01:02	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	12/16/11 01:02	
Iodomethane	ug/L	ND	10.0	12/16/11 01:02	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	12/16/11 01:02	
Methyl-tert-butyl ether	ug/L	ND	4.0	12/16/11 01:02	
Methylene Chloride	ug/L	ND	5.0	12/16/11 01:02	
n-Butylbenzene	ug/L	ND	5.0	12/16/11 01:02	
n-Hexane	ug/L	ND	5.0	12/16/11 01:02	N2
n-Propylbenzene	ug/L	ND	5.0	12/16/11 01:02	
Naphthalene	ug/L	ND	5.0	12/16/11 01:02	
p-Isopropyltoluene	ug/L	ND	5.0	12/16/11 01:02	
sec-Butylbenzene	ug/L	ND	5.0	12/16/11 01:02	
Styrene	ug/L	ND	5.0	12/16/11 01:02	
tert-Butylbenzene	ug/L	ND	5.0	12/16/11 01:02	
Tetrachloroethene	ug/L	ND	5.0	12/16/11 01:02	
Toluene	ug/L	ND	5.0	12/16/11 01:02	
trans-1,2-Dichloroethene	ug/L	ND	5.0	12/16/11 01:02	
trans-1,3-Dichloropropene	ug/L	ND	5.0	12/16/11 01:02	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	12/16/11 01:02	
Trichloroethene	ug/L	ND	5.0	12/16/11 01:02	
Trichlorofluoromethane	ug/L	ND	5.0	12/16/11 01:02	
Vinyl acetate	ug/L	ND	50.0	12/16/11 01:02	
Vinyl chloride	ug/L	ND	2.0	12/16/11 01:02	
Xylene (Total)	ug/L	ND	10.0	12/16/11 01:02	
4-Bromofluorobenzene (S)	%.	98	72-125	12/16/11 01:02	
Dibromofluoromethane (S)	%.	98	83-123	12/16/11 01:02	
Toluene-d8 (S)	%.	102	81-114	12/16/11 01:02	

LABORATORY CONTROL SAMPLE: 662042

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	46.7	93	69-122	
1,1,1-Trichloroethane	ug/L	50	48.3	97	69-126	
1,1,2,2-Tetrachloroethane	ug/L	50	55.9	112	68-134	
1,1,2-Trichloroethane	ug/L	50	53.6	107	77-129	
1,1-Dichloroethane	ug/L	50	52.1	104	70-127	
1,1-Dichloroethene	ug/L	50	53.0	106	75-145	
1,1-Dichloropropene	ug/L	50	52.1	104	75-126	
1,2,3-Trichlorobenzene	ug/L	50	45.5	91	63-130	
1,2,3-Trichloropropane	ug/L	50	65.8	132	45-121	L3
1,2,4-Trichlorobenzene	ug/L	50	44.9	90	64-122	
1,2,4-Trimethylbenzene	ug/L	50	50.9	102	68-129	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055854

LABORATORY CONTROL SAMPLE: 662042

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	50	48.5	97	77-123	
1,2-Dichlorobenzene	ug/L	50	48.8	98	74-123	
1,2-Dichloroethane	ug/L	50	50.4	101	71-127	
1,2-Dichloropropane	ug/L	50	50.4	101	75-126	
1,3,5-Trimethylbenzene	ug/L	50	50.4	101	69-129	
1,3-Dichlorobenzene	ug/L	50	47.8	96	76-123	
1,3-Dichloropropane	ug/L	50	49.0	98	77-126	
1,4-Dichlorobenzene	ug/L	50	53.9	108	77-121	
2,2-Dichloropropane	ug/L	50	40.3	81	45-138	
2-Butanone (MEK)	ug/L	250	311	125	42-177	
2-Chlorotoluene	ug/L	50	59.0	118	74-129	
2-Hexanone	ug/L	250	273	109	57-162	
4-Chlorotoluene	ug/L	50	51.5	103	70-125	
4-Methyl-2-pentanone (MIBK)	ug/L	250	240	96	64-135	
Acetone	ug/L	250	485	194	10-200	
Acrolein	ug/L	1000	1750	175	10-200	
Acrylonitrile	ug/L	1000	1020	102	59-144	
Benzene	ug/L	50	47.8	96	76-123	
Bromobenzene	ug/L	50	50.0	100	67-130	
Bromochloromethane	ug/L	50	53.6	107	58-153	
Bromodichloromethane	ug/L	50	48.0	96	71-124	
Bromoform	ug/L	50	38.2	76	64-116	
Bromomethane	ug/L	50	76.1	152	23-197	
Carbon disulfide	ug/L	100	109	109	55-146	
Carbon tetrachloride	ug/L	50	42.1	84	65-125	
Chlorobenzene	ug/L	50	49.4	99	78-120	
Chloroethane	ug/L	50	74.5	149	56-163	
Chloroform	ug/L	50	52.1	104	73-122	
Chloromethane	ug/L	50	71.9	144	46-146	
cis-1,2-Dichloroethene	ug/L	50	48.4	97	79-129	
cis-1,3-Dichloropropene	ug/L	50	39.8	80	66-123	
Dibromochloromethane	ug/L	50	46.5	93	70-123	
Dibromomethane	ug/L	50	53.7	107	73-123	
Dichlorodifluoromethane	ug/L	50	65.6	131	19-200	
Ethyl methacrylate	ug/L	200	198	99	70-127	
Ethylbenzene	ug/L	50	50.0	100	75-120	
Hexachloro-1,3-butadiene	ug/L	50	46.0	92	64-131	
Iodomethane	ug/L	100	115	115	16-181	
Isopropylbenzene (Cumene)	ug/L	50	51.7	103	73-123	
Methyl-tert-butyl ether	ug/L	100	92.9	93	66-128	
Methylene Chloride	ug/L	50	53.4	107	61-138	
n-Butylbenzene	ug/L	50	50.6	101	69-130	
n-Hexane	ug/L	50	52.0	104	67-142	N2
n-Propylbenzene	ug/L	50	58.2	116	71-132	
Naphthalene	ug/L	50	47.7	95	62-130	
p-Isopropyltoluene	ug/L	50	51.4	103	71-126	
sec-Butylbenzene	ug/L	50	51.3	103	69-130	
Styrene	ug/L	50	50.3	101	75-125	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055854

LABORATORY CONTROL SAMPLE: 662042

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	42.2	84	49-114	
Tetrachloroethene	ug/L	50	47.5	95	57-125	
Toluene	ug/L	50	48.4	97	72-124	
trans-1,2-Dichloroethene	ug/L	50	49.4	99	71-145	
trans-1,3-Dichloropropene	ug/L	50	39.8	80	58-118	
trans-1,4-Dichloro-2-butene	ug/L	200	133	67	50-121	
Trichloroethene	ug/L	50	49.0	98	77-122	
Trichlorofluoromethane	ug/L	50	72.2	144	56-159	
Vinyl acetate	ug/L	200	155	78	27-119	
Vinyl chloride	ug/L	50	66.0	132	61-146	
Xylene (Total)	ug/L	150	159	106	72-126	
4-Bromofluorobenzene (S)	%.			100	72-125	
Dibromofluoromethane (S)	%.			100	83-123	
Toluene-d8 (S)	%.			101	81-114	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 662043 662044

Parameter	Units	5055691007 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/L	ND	50	50	35.9	37.9	72	76	30-122	5	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	39.8	39.8	80	80	37-136	.007	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	45.5	45.7	91	91	47-132	.2	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	45.3	46.1	91	92	53-131	2	20	
1,1-Dichloroethane	ug/L	ND	50	50	44.4	43.5	89	87	47-138	2	20	
1,1-Dichloroethene	ug/L	ND	50	50	43.6	43.5	87	87	54-152	.2	20	
1,1-Dichloropropene	ug/L	ND	50	50	43.7	42.7	87	85	47-136	2	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	36.6	34.4	73	69	15-132	6	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	49.4	51.7	99	103	24-108	4	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	34.9	31.2	70	62	10-130	11	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	40.0	38.5	80	77	10-141	4	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	41.0	41.7	82	83	49-130	2	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	40.5	39.2	81	78	20-137	3	20	
1,2-Dichloroethane	ug/L	ND	50	50	43.0	43.3	86	87	42-139	.8	20	
1,2-Dichloropropane	ug/L	ND	50	50	43.4	43.0	87	86	50-131	1	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	40.5	39.0	81	78	10-145	4	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	38.7	37.0	77	74	13-143	5	20	
1,3-Dichloropropane	ug/L	ND	50	50	41.7	42.6	83	85	53-130	2	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	43.5	40.9	87	82	13-140	6	20	
2,2-Dichloropropane	ug/L	ND	50	50	30.9	31.7	62	63	13-142	3	20	
2-Butanone (MEK)	ug/L	ND	250	250	213	214	85	86	43-142	.7	20	
2-Chlorotoluene	ug/L	ND	50	50	48.3	46.2	97	92	15-145	4	20	
2-Hexanone	ug/L	ND	250	250	203	205	81	82	46-139	1	20	
4-Chlorotoluene	ug/L	ND	50	50	41.9	40.0	84	80	12-143	5	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	202	206	81	82	43-140	2	20	
Acetone	ug/L	ND	250	250	229	240	91	96	38-155	5	20	
Acrolein	ug/L	ND	1000	1000	895	942	89	94	11-200	5	20	
Acrylonitrile	ug/L	ND	1000	1000	878	886	88	89	42-150	.9	20	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055854

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 662043 662044

Parameter	Units	5055691007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	50	50	41.1	40.2	82	80	52-134	2	20	
Bromobenzene	ug/L	ND	50	50	41.3	41.2	83	82	25-140	.4	20	
Bromochloromethane	ug/L	ND	50	50	46.0	45.2	92	90	54-144	2	20	
Bromodichloromethane	ug/L	ND	50	50	39.0	39.5	78	79	42-128	1	20	
Bromoform	ug/L	ND	50	50	28.8	30.0	58	60	34-116	4	20	
Bromomethane	ug/L	ND	50	50	68.5	66.0	137	132	10-200	4	20	
Carbon disulfide	ug/L	ND	100	100	88.4	87.7	88	88	43-144	.7	20	
Carbon tetrachloride	ug/L	ND	50	50	32.5	33.6	65	67	26-136	3	20	
Chlorobenzene	ug/L	ND	50	50	41.1	41.2	82	82	33-136	.4	20	
Chloroethane	ug/L	ND	50	50	62.6	63.1	125	126	21-200	.8	20	
Chloroform	ug/L	ND	50	50	44.4	43.9	89	88	50-134	1	20	
Chloromethane	ug/L	ND	50	50	58.8	60.1	118	120	32-160	2	20	
cis-1,2-Dichloroethene	ug/L	9.2	50	50	50.2	49.4	82	80	48-145	2	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	30.1	31.9	60	64	35-116	6	20	
Dibromochloromethane	ug/L	ND	50	50	35.6	37.5	71	75	39-122	5	20	
Dibromomethane	ug/L	ND	50	50	45.5	45.2	91	90	49-134	.7	20	
Dichlorodifluoromethane	ug/L	ND	50	50	52.4	52.2	105	104	35-200	.3	20	
Ethyl methacrylate	ug/L	ND	200	200	155	161	78	81	54-123	4	20	
Ethylbenzene	ug/L	ND	50	50	41.6	41.5	83	83	29-132	.1	20	
Hexachloro-1,3-butadiene	ug/L	ND	50	50	36.4	35.1	73	70	10-146	4	20	
Iodomethane	ug/L	ND	100	100	80.1	88.4	80	88	10-171	10	20	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	43.2	43.0	86	86	11-146	.5	20	
Methyl-tert-butyl ether	ug/L	ND	100	100	76.8	78.8	77	79	39-137	3	20	
Methylene Chloride	ug/L	ND	50	50	42.4	42.1	85	84	47-141	.7	20	
n-Butylbenzene	ug/L	ND	50	50	40.2	36.9	80	74	10-156	8	20	
n-Hexane	ug/L	ND	50	50	42.1	41.9	84	84	51-137	.4	20	N2
n-Propylbenzene	ug/L	ND	50	50	47.7	45.9	95	92	10-148	4	20	
Naphthalene	ug/L	ND	50	50	39.1	38.2	78	76	40-124	2	20	
p-Isopropyltoluene	ug/L	ND	50	50	41.8	39.8	84	80	10-150	5	20	
sec-Butylbenzene	ug/L	ND	50	50	42.6	41.3	85	83	10-150	3	20	
Styrene	ug/L	ND	50	50	38.5	38.8	77	78	20-143	.6	20	
tert-Butylbenzene	ug/L	ND	50	50	35.7	35.0	71	70	10-123	2	20	
Tetrachloroethene	ug/L	ND	50	50	39.3	38.7	79	77	30-124	1	20	
Toluene	ug/L	ND	50	50	41.3	41.4	81	81	42-130	.08	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	42.3	40.9	85	82	48-144	3	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	30.1	31.9	60	64	24-114	6	20	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	102	107	51	54	22-120	5	20	
Trichloroethene	ug/L	ND	50	50	41.4	39.9	83	80	44-130	4	20	
Trichlorofluoromethane	ug/L	ND	50	50	60.6	61.1	121	122	17-200	.7	20	
Vinyl acetate	ug/L	ND	200	200	79.7	82.1	40	41	10-115	3	20	
Vinyl chloride	ug/L	5.4	50	50	58.6	58.6	106	106	45-159	.02	20	
Xylene (Total)	ug/L	ND	150	150	130	130	87	86	29-131	.5	20	
4-Bromofluorobenzene (S)	%.						100	101	72-125		20	
Dibromofluoromethane (S)	%.						98	100	83-123		20	
Toluene-d8 (S)	%.						100	102	81-114		20	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055854

QC Batch: MSV/38168
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 5055854001

METHOD BLANK: 662847
Matrix: Solid
Associated Lab Samples: 5055854001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	12/16/11 22:42	
1,1,1-Trichloroethane	ug/kg	ND	5.0	12/16/11 22:42	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	12/16/11 22:42	
1,1,2-Trichloroethane	ug/kg	ND	5.0	12/16/11 22:42	
1,1-Dichloroethane	ug/kg	ND	5.0	12/16/11 22:42	
1,1-Dichloroethene	ug/kg	ND	5.0	12/16/11 22:42	
1,1-Dichloropropene	ug/kg	ND	5.0	12/16/11 22:42	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	12/16/11 22:42	
1,2,3-Trichloropropane	ug/kg	ND	5.0	12/16/11 22:42	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	12/16/11 22:42	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	12/16/11 22:42	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	12/16/11 22:42	
1,2-Dichlorobenzene	ug/kg	ND	5.0	12/16/11 22:42	
1,2-Dichloroethane	ug/kg	ND	5.0	12/16/11 22:42	
1,2-Dichloropropane	ug/kg	ND	5.0	12/16/11 22:42	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	12/16/11 22:42	
1,3-Dichlorobenzene	ug/kg	ND	5.0	12/16/11 22:42	
1,3-Dichloropropane	ug/kg	ND	5.0	12/16/11 22:42	
1,4-Dichlorobenzene	ug/kg	ND	5.0	12/16/11 22:42	
2,2-Dichloropropane	ug/kg	ND	5.0	12/16/11 22:42	
2-Butanone (MEK)	ug/kg	ND	25.0	12/16/11 22:42	
2-Chlorotoluene	ug/kg	ND	5.0	12/16/11 22:42	
2-Hexanone	ug/kg	ND	100	12/16/11 22:42	
4-Chlorotoluene	ug/kg	ND	5.0	12/16/11 22:42	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	12/16/11 22:42	
Acetone	ug/kg	ND	100	12/16/11 22:42	
Acrolein	ug/kg	ND	100	12/16/11 22:42	
Acrylonitrile	ug/kg	ND	100	12/16/11 22:42	
Benzene	ug/kg	ND	5.0	12/16/11 22:42	
Bromobenzene	ug/kg	ND	5.0	12/16/11 22:42	
Bromochloromethane	ug/kg	ND	5.0	12/16/11 22:42	
Bromodichloromethane	ug/kg	ND	5.0	12/16/11 22:42	
Bromoform	ug/kg	ND	5.0	12/16/11 22:42	
Bromomethane	ug/kg	ND	5.0	12/16/11 22:42	
Carbon disulfide	ug/kg	ND	10.0	12/16/11 22:42	
Carbon tetrachloride	ug/kg	ND	5.0	12/16/11 22:42	
Chlorobenzene	ug/kg	ND	5.0	12/16/11 22:42	
Chloroethane	ug/kg	ND	5.0	12/16/11 22:42	
Chloroform	ug/kg	ND	5.0	12/16/11 22:42	
Chloromethane	ug/kg	ND	5.0	12/16/11 22:42	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	12/16/11 22:42	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	12/16/11 22:42	
Dibromochloromethane	ug/kg	ND	5.0	12/16/11 22:42	

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

QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055854

METHOD BLANK: 662847 Matrix: Solid

Associated Lab Samples: 5055854001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	5.0	12/16/11 22:42	
Dichlorodifluoromethane	ug/kg	ND	5.0	12/16/11 22:42	
Ethyl methacrylate	ug/kg	ND	100	12/16/11 22:42	
Ethylbenzene	ug/kg	ND	5.0	12/16/11 22:42	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	12/16/11 22:42	
Iodomethane	ug/kg	ND	100	12/16/11 22:42	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	12/16/11 22:42	
Methyl-tert-butyl ether	ug/kg	ND	5.0	12/16/11 22:42	
Methylene Chloride	ug/kg	ND	20.0	12/16/11 22:42	
n-Butylbenzene	ug/kg	ND	5.0	12/16/11 22:42	
n-Hexane	ug/kg	ND	5.0	12/16/11 22:42	
n-Propylbenzene	ug/kg	ND	5.0	12/16/11 22:42	
Naphthalene	ug/kg	ND	5.0	12/16/11 22:42	
p-Isopropyltoluene	ug/kg	ND	5.0	12/16/11 22:42	
sec-Butylbenzene	ug/kg	ND	5.0	12/16/11 22:42	
Styrene	ug/kg	ND	5.0	12/16/11 22:42	
tert-Butylbenzene	ug/kg	ND	5.0	12/16/11 22:42	
Tetrachloroethene	ug/kg	ND	5.0	12/16/11 22:42	
Toluene	ug/kg	ND	5.0	12/16/11 22:42	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	12/16/11 22:42	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	12/16/11 22:42	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	12/16/11 22:42	
Trichloroethene	ug/kg	ND	5.0	12/16/11 22:42	
Trichlorofluoromethane	ug/kg	ND	5.0	12/16/11 22:42	
Vinyl acetate	ug/kg	ND	100	12/16/11 22:42	
Vinyl chloride	ug/kg	ND	5.0	12/16/11 22:42	
Xylene (Total)	ug/kg	ND	10.0	12/16/11 22:42	
4-Bromofluorobenzene (S)	%.	99	67-134	12/16/11 22:42	
Dibromofluoromethane (S)	%.	96	71-125	12/16/11 22:42	
Toluene-d8 (S)	%.	101	76-124	12/16/11 22:42	

LABORATORY CONTROL SAMPLE: 662848

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	51.0	102	70-130	
1,1,1-Trichloroethane	ug/kg	50	52.2	104	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	50	55.5	111	70-130	
1,1,2-Trichloroethane	ug/kg	50	55.4	111	70-130	
1,1-Dichloroethane	ug/kg	50	54.0	108	70-130	
1,1-Dichloroethene	ug/kg	50	54.6	109	70-130	
1,1-Dichloropropene	ug/kg	50	52.1	104	70-130	
1,2,3-Trichlorobenzene	ug/kg	50	53.7	107	70-130	
1,2,3-Trichloropropane	ug/kg	50	72.2	144	70-130	L3
1,2,4-Trichlorobenzene	ug/kg	50	52.1	104	70-130	
1,2,4-Trimethylbenzene	ug/kg	50	53.4	107	70-130	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055854

LABORATORY CONTROL SAMPLE: 662848

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/kg	50	52.4	105	70-130	
1,2-Dichlorobenzene	ug/kg	50	53.9	108	70-130	
1,2-Dichloroethane	ug/kg	50	53.2	106	70-130	
1,2-Dichloropropane	ug/kg	50	52.8	106	70-130	
1,3,5-Trimethylbenzene	ug/kg	50	52.8	106	70-130	
1,3-Dichlorobenzene	ug/kg	50	52.1	104	70-130	
1,3-Dichloropropane	ug/kg	50	52.3	105	70-130	
1,4-Dichlorobenzene	ug/kg	50	50.5	101	70-130	
2,2-Dichloropropane	ug/kg	50	51.2	102	40-160	
2-Butanone (MEK)	ug/kg	250	232	93	40-160	
2-Chlorotoluene	ug/kg	50	51.4	103	70-130	
2-Hexanone	ug/kg	250	257	103	40-160	
4-Chlorotoluene	ug/kg	50	53.7	107	70-130	
4-Methyl-2-pentanone (MIBK)	ug/kg	250	268	107	70-130	
Acetone	ug/kg	250	196	78	40-160	
Acrolein	ug/kg	1000	1910	191	40-160	L3
Acrylonitrile	ug/kg	1000	1090	109	70-130	
Benzene	ug/kg	50	50.2	100	70-130	
Bromobenzene	ug/kg	50	55.1	110	70-130	
Bromochloromethane	ug/kg	50	53.9	108	70-130	
Bromodichloromethane	ug/kg	50	48.5	97	70-130	
Bromoform	ug/kg	50	47.7	95	70-130	
Bromomethane	ug/kg	50	68.2	136	40-160	
Carbon disulfide	ug/kg	100	114	114	40-160	
Carbon tetrachloride	ug/kg	50	48.6	97	70-130	
Chlorobenzene	ug/kg	50	54.4	109	70-130	
Chloroethane	ug/kg	50	61.5	123	70-130	
Chloroform	ug/kg	50	50.9	102	70-130	
Chloromethane	ug/kg	50	59.8	120	70-130	
cis-1,2-Dichloroethene	ug/kg	50	50.9	102	70-130	
cis-1,3-Dichloropropene	ug/kg	50	47.4	95	70-130	
Dibromochloromethane	ug/kg	50	47.7	95	70-130	
Dibromomethane	ug/kg	50	52.2	104	70-130	
Dichlorodifluoromethane	ug/kg	50	48.7	97	70-130	
Ethyl methacrylate	ug/kg	200	209	105	40-160	
Ethylbenzene	ug/kg	50	52.3	105	70-130	
Hexachloro-1,3-butadiene	ug/kg	50	51.5	103	70-130	
Iodomethane	ug/kg	100	90J	90	70-130	
Isopropylbenzene (Cumene)	ug/kg	50	55.5	111	70-130	
Methyl-tert-butyl ether	ug/kg	100	107	107	40-160	
Methylene Chloride	ug/kg	50	51.1	102	70-130	
n-Butylbenzene	ug/kg	50	51.6	103	70-130	
n-Hexane	ug/kg	50	45.9	92	70-130	
n-Propylbenzene	ug/kg	50	51.5	103	70-130	
Naphthalene	ug/kg	50	53.6	107	70-130	
p-Isopropyltoluene	ug/kg	50	53.5	107	70-130	
sec-Butylbenzene	ug/kg	50	53.3	107	70-130	
Styrene	ug/kg	50	55.3	111	70-130	

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

QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055854

LABORATORY CONTROL SAMPLE: 662848

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/kg	50	43.4	87	70-130	
Tetrachloroethene	ug/kg	50	53.8	108	70-130	
Toluene	ug/kg	50	49.6	99	70-130	
trans-1,2-Dichloroethene	ug/kg	50	51.4	103	70-130	
trans-1,3-Dichloropropene	ug/kg	50	47.4	95	70-130	
trans-1,4-Dichloro-2-butene	ug/kg	200	178	89	70-130	
Trichloroethene	ug/kg	50	50.5	101	70-130	
Trichlorofluoromethane	ug/kg	50	60.5	121	70-130	
Vinyl acetate	ug/kg	200	187	94	40-160	
Vinyl chloride	ug/kg	50	58.8	118	70-130	
Xylene (Total)	ug/kg	150	155	104	70-130	
4-Bromofluorobenzene (S)	%.			102	70-130	
Dibromofluoromethane (S)	%.			103	70-130	
Toluene-d8 (S)	%.			100	70-130	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055854

QC Batch: PMST/6560
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 5055854001

SAMPLE DUPLICATE: 660668

Parameter	Units	5055854001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	9.2	9.9	8	5	R2

SAMPLE DUPLICATE: 660669

Parameter	Units	5055805016 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	11.2	11.0	1	5	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055854

QC Batch: WET/10561
QC Batch Method: Walkley Black
Analysis Method: Walkley Black
Analysis Description: Organic Carbon Walkley Black
Associated Lab Samples: 5055854001

METHOD BLANK: 546103 Matrix: Solid
Associated Lab Samples: 5055854001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/kg	ND	400	12/16/11 15:27	

LABORATORY CONTROL SAMPLE: 546104

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/kg	16000	15500	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 546105 546106

Parameter	Units	5055617001 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	1220	15900	15900	16800	17100	98	100	80-120	2	20	

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QUALIFIERS

Project: Michigan Plaza M01046
Pace Project No.: 5055854

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.

LABORATORIES

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

ANALYTE QUALIFIERS

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.
R2	RPD value was outside control limits due to matrix interference

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Michigan Plaza M01046
Pace Project No.: 5055854

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5055854002	**GP-24 48'**	EPA 8260	MSV/38131		
5055854003	**GP-24 38'**	EPA 8260	MSV/38131		
5055854004	**GP-24 28'**	EPA 8260	MSV/38131		
5055854001	**GP-24 17-19'**	EPA 8260	MSV/38168		
5055854001	**GP-24 17-19'**	ASTM D2974-87	PMST/6560		
5055854001	**GP-24 17-19'**	Walkley Black	WET/10561		

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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

1528776

Section A
Required Client Information:

Company: Mundell
Address:
Email To: SWebb@mundellassociates.com
Phone: Fax:
Requested Due Date/TAT: 5 DAYS

Section B
Required Project Information:

Report To: SARAH WEBB
Copy To:
Purchase Order No.:
Project Name: Michigan Plaza
Project Number: MD1046

Section C
Invoice Information:

Attention: MERIC 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: IN

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	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	GP-24 17-19'	S	G	12/12/11	1245				TC									8260 TOC	X		5055854-001
2	GP-24 48'	W	G	12/12	1410				3	X									X		-2
3	GP-24 38'	W	G	↓	1420				3	X									X		-3
4	GP-24 28'	W	G	↓	1430				3	X									X		-4
5	GP-24 17-19'	S	G	↓	1245				1	X									X		(001)
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
VOCs UNPRESERVED	Sarah Webb	12/13	1141	James Jones	12/13	1141	2.4°C	Y	N	Y

WI / Pace KO 12-13-11 1454

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

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 # 50555854

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

Tracking #: 1528776

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

Date/Time 5035A kits placed in freezer: 12-13-11 1457

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

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): 2.4°C Ice Visible in Sample Containers: ☐ yes ☑ no

Temp should be above freezing to 6°C

Date and Initials of person examining contents: KW 12-13-11

		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. See Notes
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:

See Notes GP-24 28' (1)

GP-24 28 (3)

Project Manager Review: _____ **Date:** 12/13/11

Sample Container Count

CLIENT: Mundell

COC PAGE 1 of 1

COC ID# _____

Project # 5055854

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Sample Line Item	DG9H	AG1U	WGFU	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	VG9U			Comments
1				4												
2													3			
3													3			
4													3			
5			1													
6																
7																
8																
9																
10																
11																
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

Pace Analytical Services, Inc.
7726 Moller Road
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(317)875-5894

December 19, 2011

Ms. Sarah Webb
Mundell & Associates
110 South Downey Ave.
Indianapolis, IN 46219

RE: Project: Michigan Plaza M04046
Pace Project No.: 5055910

Dear Ms. Webb:
Enclosed are the analytical results for sample(s) received by the laboratory on December 14, 2011. 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@pacelabs.com
Project Manager

Illinois Certification #: 100418
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana/NELAC Certification #: 04076
Ohio VAP: CL0065
West Virginia Certification #: 330

Enclosures

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SAMPLE SUMMARY

Project: Michigan Plaza M04046
Pace Project No.: 5055910

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5055910001	**GP-31 16-17.5'**	Solid	12/13/11 13:40	12/14/11 10:41
5055910002	**GP-30 16-18'**	Solid	12/13/11 10:10	12/14/11 10:41
5055910003	**GP-30 35-35.5'**	Solid	12/13/11 11:30	12/14/11 10:41
5055910004	**GP-31 36'**	Water	12/13/11 15:25	12/14/11 10:41
5055910005	**GP-31 26'**	Water	12/13/11 15:35	12/14/11 10:41
5055910006	**GP-30 35'**	Water	12/13/11 12:45	12/14/11 10:41
5055910007	**GP-30 25'**	Water	12/13/11 12:55	12/14/11 10:41

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SAMPLE ANALYTE COUNT

Project: Michigan Plaza M04046
Pace Project No.: 5055910

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5055910001	**GP-31 16-17.5'**	EPA 8260	RSW	73
		ASTM D2974-87	MLS	1
5055910002	**GP-30 16-18'**	EPA 8260	RSW	73
		ASTM D2974-87	MLS	1
5055910003	**GP-30 35-35.5'**	EPA 8260	RSW	73
		ASTM D2974-87	MLS	1
5055910004	**GP-31 36'**	EPA 8260	RSW	73
5055910005	**GP-31 26'**	EPA 8260	RSW	73
5055910006	**GP-30 35'**	EPA 8260	RSW	73
5055910007	**GP-30 25'**	EPA 8260	RSW	73

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ANALYTICAL RESULTS

Project: Michigan Plaza M04046
Pace Project No.: 5055910

Sample: GP-31 16-17.5' **Lab ID: 5055910001** Collected: 12/13/11 13:40 Received: 12/14/11 10:41 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	92.6	1		12/18/11 01:42	67-64-1	
Acrolein	ND	ug/kg	92.6	1		12/18/11 01:42	107-02-8	
Acrylonitrile	ND	ug/kg	92.6	1		12/18/11 01:42	107-13-1	
Benzene	ND	ug/kg	4.6	1		12/18/11 01:42	71-43-2	
Bromobenzene	ND	ug/kg	4.6	1		12/18/11 01:42	108-86-1	
Bromochloromethane	ND	ug/kg	4.6	1		12/18/11 01:42	74-97-5	
Bromodichloromethane	ND	ug/kg	4.6	1		12/18/11 01:42	75-27-4	
Bromoform	ND	ug/kg	4.6	1		12/18/11 01:42	75-25-2	
Bromomethane	ND	ug/kg	4.6	1		12/18/11 01:42	74-83-9	
2-Butanone (MEK)	ND	ug/kg	23.2	1		12/18/11 01:42	78-93-3	
n-Butylbenzene	ND	ug/kg	4.6	1		12/18/11 01:42	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.6	1		12/18/11 01:42	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.6	1		12/18/11 01:42	98-06-6	
Carbon disulfide	ND	ug/kg	9.3	1		12/18/11 01:42	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.6	1		12/18/11 01:42	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	1		12/18/11 01:42	108-90-7	
Chloroethane	ND	ug/kg	4.6	1		12/18/11 01:42	75-00-3	
Chloroform	ND	ug/kg	4.6	1		12/18/11 01:42	67-66-3	
Chloromethane	ND	ug/kg	4.6	1		12/18/11 01:42	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.6	1		12/18/11 01:42	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.6	1		12/18/11 01:42	106-43-4	
Dibromochloromethane	ND	ug/kg	4.6	1		12/18/11 01:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.6	1		12/18/11 01:42	106-93-4	
Dibromomethane	ND	ug/kg	4.6	1		12/18/11 01:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.6	1		12/18/11 01:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.6	1		12/18/11 01:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.6	1		12/18/11 01:42	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	92.6	1		12/18/11 01:42	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.6	1		12/18/11 01:42	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.6	1		12/18/11 01:42	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	1		12/18/11 01:42	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	1		12/18/11 01:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.6	1		12/18/11 01:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	1		12/18/11 01:42	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	1		12/18/11 01:42	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.6	1		12/18/11 01:42	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.6	1		12/18/11 01:42	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.6	1		12/18/11 01:42	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	1		12/18/11 01:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	1		12/18/11 01:42	10061-02-6	
Ethylbenzene	ND	ug/kg	4.6	1		12/18/11 01:42	100-41-4	
Ethyl methacrylate	ND	ug/kg	92.6	1		12/18/11 01:42	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.6	1		12/18/11 01:42	87-68-3	
n-Hexane	ND	ug/kg	4.6	1		12/18/11 01:42	110-54-3	
2-Hexanone	ND	ug/kg	92.6	1		12/18/11 01:42	591-78-6	
Iodomethane	ND	ug/kg	92.6	1		12/18/11 01:42	74-88-4	

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ANALYTICAL RESULTS

Project: Michigan Plaza M04046
Pace Project No.: 5055910

Sample: GP-31 16-17.5' **Lab ID: 5055910001** Collected: 12/13/11 13:40 Received: 12/14/11 10:41 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		12/18/11 01:42	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.6	1		12/18/11 01:42	99-87-6	
Methylene Chloride	ND	ug/kg	18.5	1		12/18/11 01:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	23.2	1		12/18/11 01:42	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.6	1		12/18/11 01:42	1634-04-4	
Naphthalene	ND	ug/kg	4.6	1		12/18/11 01:42	91-20-3	
n-Propylbenzene	ND	ug/kg	4.6	1		12/18/11 01:42	103-65-1	
Styrene	ND	ug/kg	4.6	1		12/18/11 01:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		12/18/11 01:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.6	1		12/18/11 01:42	79-34-5	
Tetrachloroethene	**68.5**	ug/kg	4.6	1		12/18/11 01:42	127-18-4	
Toluene	ND	ug/kg	4.6	1		12/18/11 01:42	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.6	1		12/18/11 01:42	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.6	1		12/18/11 01:42	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.6	1		12/18/11 01:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	1		12/18/11 01:42	79-00-5	
Trichloroethene	ND	ug/kg	4.6	1		12/18/11 01:42	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.6	1		12/18/11 01:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.6	1		12/18/11 01:42	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.6	1		12/18/11 01:42	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.6	1		12/18/11 01:42	108-67-8	
Vinyl acetate	ND	ug/kg	92.6	1		12/18/11 01:42	108-05-4	
Vinyl chloride	ND	ug/kg	4.6	1		12/18/11 01:42	75-01-4	
Xylene (Total)	ND	ug/kg	9.3	1		12/18/11 01:42	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%.	71-125	1		12/18/11 01:42	1868-53-7	
Toluene-d8 (S)	99	%.	76-124	1		12/18/11 01:42	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	67-134	1		12/18/11 01:42	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**4.8**	%	0.10	1		12/15/11 13:04		

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ANALYTICAL RESULTS

Project: Michigan Plaza M04046
Pace Project No.: 5055910

Sample: GP-30 16-18' **Lab ID: 5055910002** Collected: 12/13/11 10:10 Received: 12/14/11 10:41 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	**748**	ug/kg	102	1		12/18/11 02:16	67-64-1	
Acrolein	ND	ug/kg	102	1		12/18/11 02:16	107-02-8	
Acrylonitrile	ND	ug/kg	102	1		12/18/11 02:16	107-13-1	
Benzene	ND	ug/kg	5.1	1		12/18/11 02:16	71-43-2	
Bromobenzene	ND	ug/kg	5.1	1		12/18/11 02:16	108-86-1	
Bromochloromethane	ND	ug/kg	5.1	1		12/18/11 02:16	74-97-5	
Bromodichloromethane	ND	ug/kg	5.1	1		12/18/11 02:16	75-27-4	
Bromoform	ND	ug/kg	5.1	1		12/18/11 02:16	75-25-2	
Bromomethane	ND	ug/kg	5.1	1		12/18/11 02:16	74-83-9	
2-Butanone (MEK)	ND	ug/kg	25.5	1		12/18/11 02:16	78-93-3	
n-Butylbenzene	ND	ug/kg	5.1	1		12/18/11 02:16	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.1	1		12/18/11 02:16	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.1	1		12/18/11 02:16	98-06-6	
Carbon disulfide	ND	ug/kg	10.2	1		12/18/11 02:16	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.1	1		12/18/11 02:16	56-23-5	
Chlorobenzene	ND	ug/kg	5.1	1		12/18/11 02:16	108-90-7	
Chloroethane	ND	ug/kg	5.1	1		12/18/11 02:16	75-00-3	
Chloroform	ND	ug/kg	5.1	1		12/18/11 02:16	67-66-3	
Chloromethane	ND	ug/kg	5.1	1		12/18/11 02:16	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.1	1		12/18/11 02:16	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.1	1		12/18/11 02:16	106-43-4	
Dibromochloromethane	ND	ug/kg	5.1	1		12/18/11 02:16	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.1	1		12/18/11 02:16	106-93-4	
Dibromomethane	ND	ug/kg	5.1	1		12/18/11 02:16	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.1	1		12/18/11 02:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.1	1		12/18/11 02:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.1	1		12/18/11 02:16	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	102	1		12/18/11 02:16	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.1	1		12/18/11 02:16	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.1	1		12/18/11 02:16	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.1	1		12/18/11 02:16	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.1	1		12/18/11 02:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.1	1		12/18/11 02:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.1	1		12/18/11 02:16	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.1	1		12/18/11 02:16	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.1	1		12/18/11 02:16	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.1	1		12/18/11 02:16	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.1	1		12/18/11 02:16	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.1	1		12/18/11 02:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.1	1		12/18/11 02:16	10061-02-6	
Ethylbenzene	ND	ug/kg	5.1	1		12/18/11 02:16	100-41-4	
Ethyl methacrylate	ND	ug/kg	102	1		12/18/11 02:16	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.1	1		12/18/11 02:16	87-68-3	
n-Hexane	ND	ug/kg	5.1	1		12/18/11 02:16	110-54-3	
2-Hexanone	ND	ug/kg	102	1		12/18/11 02:16	591-78-6	
Iodomethane	ND	ug/kg	102	1		12/18/11 02:16	74-88-4	

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ANALYTICAL RESULTS

Project: Michigan Plaza M04046
Pace Project No.: 5055910

Sample: GP-30 16-18' **Lab ID: 5055910002** Collected: 12/13/11 10:10 Received: 12/14/11 10:41 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	5.1	1		12/18/11 02:16	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.1	1		12/18/11 02:16	99-87-6	
Methylene Chloride	ND	ug/kg	20.4	1		12/18/11 02:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	25.5	1		12/18/11 02:16	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.1	1		12/18/11 02:16	1634-04-4	
Naphthalene	ND	ug/kg	5.1	1		12/18/11 02:16	91-20-3	
n-Propylbenzene	ND	ug/kg	5.1	1		12/18/11 02:16	103-65-1	
Styrene	ND	ug/kg	5.1	1		12/18/11 02:16	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.1	1		12/18/11 02:16	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.1	1		12/18/11 02:16	79-34-5	
Tetrachloroethene	ND	ug/kg	5.1	1		12/18/11 02:16	127-18-4	
Toluene	ND	ug/kg	5.1	1		12/18/11 02:16	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.1	1		12/18/11 02:16	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.1	1		12/18/11 02:16	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.1	1		12/18/11 02:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.1	1		12/18/11 02:16	79-00-5	
Trichloroethene	ND	ug/kg	5.1	1		12/18/11 02:16	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.1	1		12/18/11 02:16	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.1	1		12/18/11 02:16	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.1	1		12/18/11 02:16	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.1	1		12/18/11 02:16	108-67-8	
Vinyl acetate	ND	ug/kg	102	1		12/18/11 02:16	108-05-4	
Vinyl chloride	ND	ug/kg	5.1	1		12/18/11 02:16	75-01-4	
Xylene (Total)	ND	ug/kg	10.2	1		12/18/11 02:16	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106	%.	71-125	1		12/18/11 02:16	1868-53-7	
Toluene-d8 (S)	104	%.	76-124	1		12/18/11 02:16	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	67-134	1		12/18/11 02:16	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**9.7**	%	0.10	1		12/15/11 13:04		

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ANALYTICAL RESULTS

Project: Michigan Plaza M04046
Pace Project No.: 5055910

Sample: GP-30 35-35.5' **Lab ID: 5055910003** Collected: 12/13/11 11:30 Received: 12/14/11 10:41 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	**179**	ug/kg	73.2	1		12/18/11 04:02	67-64-1	
Acrolein	ND	ug/kg	73.2	1		12/18/11 04:02	107-02-8	
Acrylonitrile	ND	ug/kg	73.2	1		12/18/11 04:02	107-13-1	
Benzene	ND	ug/kg	3.7	1		12/18/11 04:02	71-43-2	
Bromobenzene	ND	ug/kg	3.7	1		12/18/11 04:02	108-86-1	
Bromochloromethane	ND	ug/kg	3.7	1		12/18/11 04:02	74-97-5	
Bromodichloromethane	ND	ug/kg	3.7	1		12/18/11 04:02	75-27-4	
Bromoform	ND	ug/kg	3.7	1		12/18/11 04:02	75-25-2	
Bromomethane	ND	ug/kg	3.7	1		12/18/11 04:02	74-83-9	
2-Butanone (MEK)	ND	ug/kg	18.3	1		12/18/11 04:02	78-93-3	
n-Butylbenzene	ND	ug/kg	3.7	1		12/18/11 04:02	104-51-8	
sec-Butylbenzene	ND	ug/kg	3.7	1		12/18/11 04:02	135-98-8	
tert-Butylbenzene	ND	ug/kg	3.7	1		12/18/11 04:02	98-06-6	
Carbon disulfide	ND	ug/kg	7.3	1		12/18/11 04:02	75-15-0	
Carbon tetrachloride	ND	ug/kg	3.7	1		12/18/11 04:02	56-23-5	
Chlorobenzene	ND	ug/kg	3.7	1		12/18/11 04:02	108-90-7	
Chloroethane	ND	ug/kg	3.7	1		12/18/11 04:02	75-00-3	
Chloroform	ND	ug/kg	3.7	1		12/18/11 04:02	67-66-3	
Chloromethane	ND	ug/kg	3.7	1		12/18/11 04:02	74-87-3	
2-Chlorotoluene	ND	ug/kg	3.7	1		12/18/11 04:02	95-49-8	
4-Chlorotoluene	ND	ug/kg	3.7	1		12/18/11 04:02	106-43-4	
Dibromochloromethane	ND	ug/kg	3.7	1		12/18/11 04:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.7	1		12/18/11 04:02	106-93-4	
Dibromomethane	ND	ug/kg	3.7	1		12/18/11 04:02	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.7	1		12/18/11 04:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.7	1		12/18/11 04:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.7	1		12/18/11 04:02	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	73.2	1		12/18/11 04:02	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	3.7	1		12/18/11 04:02	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.7	1		12/18/11 04:02	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.7	1		12/18/11 04:02	107-06-2	
1,1-Dichloroethene	ND	ug/kg	3.7	1		12/18/11 04:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	3.7	1		12/18/11 04:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.7	1		12/18/11 04:02	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.7	1		12/18/11 04:02	78-87-5	
1,3-Dichloropropane	ND	ug/kg	3.7	1		12/18/11 04:02	142-28-9	
2,2-Dichloropropane	ND	ug/kg	3.7	1		12/18/11 04:02	594-20-7	
1,1-Dichloropropene	ND	ug/kg	3.7	1		12/18/11 04:02	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	3.7	1		12/18/11 04:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.7	1		12/18/11 04:02	10061-02-6	
Ethylbenzene	ND	ug/kg	3.7	1		12/18/11 04:02	100-41-4	
Ethyl methacrylate	ND	ug/kg	73.2	1		12/18/11 04:02	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	3.7	1		12/18/11 04:02	87-68-3	
n-Hexane	ND	ug/kg	3.7	1		12/18/11 04:02	110-54-3	
2-Hexanone	ND	ug/kg	73.2	1		12/18/11 04:02	591-78-6	
Iodomethane	ND	ug/kg	73.2	1		12/18/11 04:02	74-88-4	

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ANALYTICAL RESULTS

Project: Michigan Plaza M04046
Pace Project No.: 5055910

Sample: GP-30 35-35.5' **Lab ID: 5055910003** Collected: 12/13/11 11:30 Received: 12/14/11 10:41 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	3.7	1		12/18/11 04:02	98-82-8	
p-Isopropyltoluene	ND	ug/kg	3.7	1		12/18/11 04:02	99-87-6	
Methylene Chloride	ND	ug/kg	14.6	1		12/18/11 04:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	18.3	1		12/18/11 04:02	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	3.7	1		12/18/11 04:02	1634-04-4	
Naphthalene	ND	ug/kg	3.7	1		12/18/11 04:02	91-20-3	
n-Propylbenzene	ND	ug/kg	3.7	1		12/18/11 04:02	103-65-1	
Styrene	ND	ug/kg	3.7	1		12/18/11 04:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.7	1		12/18/11 04:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.7	1		12/18/11 04:02	79-34-5	
Tetrachloroethene	ND	ug/kg	3.7	1		12/18/11 04:02	127-18-4	
Toluene	ND	ug/kg	3.7	1		12/18/11 04:02	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	3.7	1		12/18/11 04:02	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	3.7	1		12/18/11 04:02	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	3.7	1		12/18/11 04:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.7	1		12/18/11 04:02	79-00-5	
Trichloroethene	ND	ug/kg	3.7	1		12/18/11 04:02	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.7	1		12/18/11 04:02	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	3.7	1		12/18/11 04:02	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	3.7	1		12/18/11 04:02	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	3.7	1		12/18/11 04:02	108-67-8	
Vinyl acetate	ND	ug/kg	73.2	1		12/18/11 04:02	108-05-4	
Vinyl chloride	**26.8**	ug/kg	3.7	1		12/18/11 04:02	75-01-4	
Xylene (Total)	ND	ug/kg	7.3	1		12/18/11 04:02	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%.	71-125	1		12/18/11 04:02	1868-53-7	
Toluene-d8 (S)	103	%.	76-124	1		12/18/11 04:02	2037-26-5	
4-Bromofluorobenzene (S)	107	%.	67-134	1		12/18/11 04:02	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**10.1**	%	0.10	1		12/15/11 13:05		

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ANALYTICAL RESULTS

Project: Michigan Plaza M04046
Pace Project No.: 5055910

Sample: GP-31 36' **Lab ID: 5055910004** Collected: 12/13/11 15:25 Received: 12/14/11 10:41 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		12/17/11 05:53	67-64-1	
Acrolein	ND	ug/L	50.0	1		12/17/11 05:53	107-02-8	
Acrylonitrile	ND	ug/L	100	1		12/17/11 05:53	107-13-1	
Benzene	ND	ug/L	5.0	1		12/17/11 05:53	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		12/17/11 05:53	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		12/17/11 05:53	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		12/17/11 05:53	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/17/11 05:53	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/17/11 05:53	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		12/17/11 05:53	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		12/17/11 05:53	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		12/17/11 05:53	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		12/17/11 05:53	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		12/17/11 05:53	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/17/11 05:53	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/17/11 05:53	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/17/11 05:53	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/17/11 05:53	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/17/11 05:53	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		12/17/11 05:53	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		12/17/11 05:53	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		12/17/11 05:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/17/11 05:53	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		12/17/11 05:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/17/11 05:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/17/11 05:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/17/11 05:53	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		12/17/11 05:53	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		12/17/11 05:53	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/17/11 05:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/17/11 05:53	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/17/11 05:53	75-35-4	
cis-1,2-Dichloroethene	**37.2**	ug/L	5.0	1		12/17/11 05:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/17/11 05:53	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/17/11 05:53	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		12/17/11 05:53	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		12/17/11 05:53	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		12/17/11 05:53	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/17/11 05:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/17/11 05:53	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/17/11 05:53	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		12/17/11 05:53	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/17/11 05:53	87-68-3	
n-Hexane	ND	ug/L	5.0	1		12/17/11 05:53	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		12/17/11 05:53	591-78-6	
Iodomethane	ND	ug/L	10.0	1		12/17/11 05:53	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		12/17/11 05:53	98-82-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza M04046
Pace Project No.: 5055910

Sample: GP-31 36' **Lab ID: 5055910004** Collected: 12/13/11 15:25 Received: 12/14/11 10:41 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		12/17/11 05:53	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		12/17/11 05:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		12/17/11 05:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		12/17/11 05:53	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/17/11 05:53	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		12/17/11 05:53	103-65-1	
Styrene	ND	ug/L	5.0	1		12/17/11 05:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		12/17/11 05:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/17/11 05:53	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/17/11 05:53	127-18-4	
Toluene	ND	ug/L	5.0	1		12/17/11 05:53	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		12/17/11 05:53	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		12/17/11 05:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/17/11 05:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/17/11 05:53	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/17/11 05:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/17/11 05:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		12/17/11 05:53	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		12/17/11 05:53	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		12/17/11 05:53	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		12/17/11 05:53	108-05-4	
Vinyl chloride	**74.3**	ug/L	2.0	1		12/17/11 05:53	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/17/11 05:53	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	83-123	1		12/17/11 05:53	1868-53-7	p2
4-Bromofluorobenzene (S)	106	%.	72-125	1		12/17/11 05:53	460-00-4	
Toluene-d8 (S)	102	%.	81-114	1		12/17/11 05:53	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza M04046
Pace Project No.: 5055910

Sample: GP-31 26' **Lab ID: 5055910005** Collected: 12/13/11 15:35 Received: 12/14/11 10:41 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		12/17/11 07:40	67-64-1	
Acrolein	ND	ug/L	50.0	1		12/17/11 07:40	107-02-8	
Acrylonitrile	ND	ug/L	100	1		12/17/11 07:40	107-13-1	
Benzene	ND	ug/L	5.0	1		12/17/11 07:40	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		12/17/11 07:40	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		12/17/11 07:40	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		12/17/11 07:40	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/17/11 07:40	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/17/11 07:40	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		12/17/11 07:40	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		12/17/11 07:40	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		12/17/11 07:40	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		12/17/11 07:40	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		12/17/11 07:40	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/17/11 07:40	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/17/11 07:40	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/17/11 07:40	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/17/11 07:40	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/17/11 07:40	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		12/17/11 07:40	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		12/17/11 07:40	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		12/17/11 07:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/17/11 07:40	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		12/17/11 07:40	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/17/11 07:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/17/11 07:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/17/11 07:40	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		12/17/11 07:40	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		12/17/11 07:40	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/17/11 07:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/17/11 07:40	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/17/11 07:40	75-35-4	
cis-1,2-Dichloroethene	**69.9**	ug/L	5.0	1		12/17/11 07:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/17/11 07:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/17/11 07:40	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		12/17/11 07:40	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		12/17/11 07:40	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		12/17/11 07:40	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/17/11 07:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/17/11 07:40	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/17/11 07:40	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		12/17/11 07:40	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/17/11 07:40	87-68-3	
n-Hexane	ND	ug/L	5.0	1		12/17/11 07:40	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		12/17/11 07:40	591-78-6	
Iodomethane	ND	ug/L	10.0	1		12/17/11 07:40	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		12/17/11 07:40	98-82-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza M04046
Pace Project No.: 5055910

Sample: GP-31 26' **Lab ID: 5055910005** Collected: 12/13/11 15:35 Received: 12/14/11 10:41 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		12/17/11 07:40	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		12/17/11 07:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		12/17/11 07:40	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		12/17/11 07:40	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/17/11 07:40	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		12/17/11 07:40	103-65-1	
Styrene	ND	ug/L	5.0	1		12/17/11 07:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		12/17/11 07:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/17/11 07:40	79-34-5	
Tetrachloroethene	**9.3**	ug/L	5.0	1		12/17/11 07:40	127-18-4	
Toluene	ND	ug/L	5.0	1		12/17/11 07:40	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		12/17/11 07:40	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		12/17/11 07:40	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/17/11 07:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/17/11 07:40	79-00-5	
Trichloroethene	**9.5**	ug/L	5.0	1		12/17/11 07:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/17/11 07:40	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		12/17/11 07:40	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		12/17/11 07:40	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		12/17/11 07:40	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		12/17/11 07:40	108-05-4	
Vinyl chloride	**20.6**	ug/L	2.0	1		12/17/11 07:40	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/17/11 07:40	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	83-123	1		12/17/11 07:40	1868-53-7	p2
4-Bromofluorobenzene (S)	104	%.	72-125	1		12/17/11 07:40	460-00-4	
Toluene-d8 (S)	101	%.	81-114	1		12/17/11 07:40	2037-26-5	

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7726 Moller Road
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(317)875-5894

ANALYTICAL RESULTS

Project: Michigan Plaza M04046
Pace Project No.: 5055910

Sample: GP-30 35' **Lab ID: 5055910006** Collected: 12/13/11 12:45 Received: 12/14/11 10:41 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		12/17/11 08:14	67-64-1	
Acrolein	ND	ug/L	50.0	1		12/17/11 08:14	107-02-8	
Acrylonitrile	ND	ug/L	100	1		12/17/11 08:14	107-13-1	
Benzene	ND	ug/L	5.0	1		12/17/11 08:14	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		12/17/11 08:14	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		12/17/11 08:14	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		12/17/11 08:14	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/17/11 08:14	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/17/11 08:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		12/17/11 08:14	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		12/17/11 08:14	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		12/17/11 08:14	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		12/17/11 08:14	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		12/17/11 08:14	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/17/11 08:14	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/17/11 08:14	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/17/11 08:14	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/17/11 08:14	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/17/11 08:14	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		12/17/11 08:14	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		12/17/11 08:14	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		12/17/11 08:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/17/11 08:14	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		12/17/11 08:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/17/11 08:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/17/11 08:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/17/11 08:14	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		12/17/11 08:14	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		12/17/11 08:14	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/17/11 08:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/17/11 08:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/17/11 08:14	75-35-4	
cis-1,2-Dichloroethene	**42.4**	ug/L	5.0	1		12/17/11 08:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/17/11 08:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/17/11 08:14	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		12/17/11 08:14	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		12/17/11 08:14	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		12/17/11 08:14	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/17/11 08:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/17/11 08:14	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/17/11 08:14	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		12/17/11 08:14	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/17/11 08:14	87-68-3	
n-Hexane	ND	ug/L	5.0	1		12/17/11 08:14	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		12/17/11 08:14	591-78-6	
Iodomethane	ND	ug/L	10.0	1		12/17/11 08:14	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		12/17/11 08:14	98-82-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza M04046
Pace Project No.: 5055910

Sample: GP-30 35' **Lab ID: 5055910006** Collected: 12/13/11 12:45 Received: 12/14/11 10:41 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		12/17/11 08:14	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		12/17/11 08:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		12/17/11 08:14	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		12/17/11 08:14	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/17/11 08:14	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		12/17/11 08:14	103-65-1	
Styrene	ND	ug/L	5.0	1		12/17/11 08:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		12/17/11 08:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/17/11 08:14	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/17/11 08:14	127-18-4	
Toluene	ND	ug/L	5.0	1		12/17/11 08:14	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		12/17/11 08:14	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		12/17/11 08:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/17/11 08:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/17/11 08:14	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/17/11 08:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/17/11 08:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		12/17/11 08:14	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		12/17/11 08:14	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		12/17/11 08:14	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		12/17/11 08:14	108-05-4	
Vinyl chloride	**25.5**	ug/L	2.0	1		12/17/11 08:14	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/17/11 08:14	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	83-123	1		12/17/11 08:14	1868-53-7	p2
4-Bromofluorobenzene (S)	104	%.	72-125	1		12/17/11 08:14	460-00-4	
Toluene-d8 (S)	105	%.	81-114	1		12/17/11 08:14	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza M04046
Pace Project No.: 5055910

Sample: GP-30 25' **Lab ID: 5055910007** Collected: 12/13/11 12:55 Received: 12/14/11 10:41 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		12/17/11 09:58	67-64-1	
Acrolein	ND	ug/L	50.0	1		12/17/11 09:58	107-02-8	
Acrylonitrile	ND	ug/L	100	1		12/17/11 09:58	107-13-1	
Benzene	ND	ug/L	5.0	1		12/17/11 09:58	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		12/17/11 09:58	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		12/17/11 09:58	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		12/17/11 09:58	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/17/11 09:58	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/17/11 09:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		12/17/11 09:58	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		12/17/11 09:58	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		12/17/11 09:58	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		12/17/11 09:58	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		12/17/11 09:58	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/17/11 09:58	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/17/11 09:58	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/17/11 09:58	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/17/11 09:58	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/17/11 09:58	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		12/17/11 09:58	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		12/17/11 09:58	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		12/17/11 09:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/17/11 09:58	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		12/17/11 09:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/17/11 09:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/17/11 09:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/17/11 09:58	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		12/17/11 09:58	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		12/17/11 09:58	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/17/11 09:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/17/11 09:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/17/11 09:58	75-35-4	
cis-1,2-Dichloroethene	**57.5**	ug/L	5.0	1		12/17/11 09:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/17/11 09:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/17/11 09:58	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		12/17/11 09:58	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		12/17/11 09:58	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		12/17/11 09:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/17/11 09:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/17/11 09:58	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/17/11 09:58	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		12/17/11 09:58	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/17/11 09:58	87-68-3	
n-Hexane	ND	ug/L	5.0	1		12/17/11 09:58	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		12/17/11 09:58	591-78-6	
Iodomethane	ND	ug/L	10.0	1		12/17/11 09:58	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		12/17/11 09:58	98-82-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza M04046
Pace Project No.: 5055910

Sample: GP-30 25' **Lab ID: 5055910007** Collected: 12/13/11 12:55 Received: 12/14/11 10:41 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		12/17/11 09:58	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		12/17/11 09:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		12/17/11 09:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		12/17/11 09:58	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/17/11 09:58	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		12/17/11 09:58	103-65-1	
Styrene	ND	ug/L	5.0	1		12/17/11 09:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		12/17/11 09:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/17/11 09:58	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/17/11 09:58	127-18-4	
Toluene	ND	ug/L	5.0	1		12/17/11 09:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		12/17/11 09:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		12/17/11 09:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/17/11 09:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/17/11 09:58	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/17/11 09:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/17/11 09:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		12/17/11 09:58	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		12/17/11 09:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		12/17/11 09:58	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		12/17/11 09:58	108-05-4	
Vinyl chloride	**59.7**	ug/L	2.0	1		12/17/11 09:58	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/17/11 09:58	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%.	83-123	1		12/17/11 09:58	1868-53-7	p2
4-Bromofluorobenzene (S)	102	%.	72-125	1		12/17/11 09:58	460-00-4	
Toluene-d8 (S)	97	%.	81-114	1		12/17/11 09:58	2037-26-5	

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QUALITY CONTROL DATA

Project: Michigan Plaza M04046
Pace Project No.: 5055910

QC Batch: MSV/38155 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5055910004, 5055910005, 5055910006, 5055910007

METHOD BLANK: 662434 Matrix: Water
Associated Lab Samples: 5055910004, 5055910005, 5055910006, 5055910007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	12/17/11 02:30	
1,1,1-Trichloroethane	ug/L	ND	5.0	12/17/11 02:30	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	12/17/11 02:30	
1,1,2-Trichloroethane	ug/L	ND	5.0	12/17/11 02:30	
1,1-Dichloroethane	ug/L	ND	5.0	12/17/11 02:30	
1,1-Dichloroethene	ug/L	ND	5.0	12/17/11 02:30	
1,1-Dichloropropene	ug/L	ND	5.0	12/17/11 02:30	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	12/17/11 02:30	
1,2,3-Trichloropropane	ug/L	ND	5.0	12/17/11 02:30	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	12/17/11 02:30	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	12/17/11 02:30	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	12/17/11 02:30	
1,2-Dichlorobenzene	ug/L	ND	5.0	12/17/11 02:30	
1,2-Dichloroethane	ug/L	ND	5.0	12/17/11 02:30	
1,2-Dichloropropane	ug/L	ND	5.0	12/17/11 02:30	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	12/17/11 02:30	
1,3-Dichlorobenzene	ug/L	ND	5.0	12/17/11 02:30	
1,3-Dichloropropane	ug/L	ND	5.0	12/17/11 02:30	
1,4-Dichlorobenzene	ug/L	ND	5.0	12/17/11 02:30	
2,2-Dichloropropane	ug/L	ND	5.0	12/17/11 02:30	
2-Butanone (MEK)	ug/L	ND	25.0	12/17/11 02:30	
2-Chlorotoluene	ug/L	ND	5.0	12/17/11 02:30	
2-Hexanone	ug/L	ND	25.0	12/17/11 02:30	
4-Chlorotoluene	ug/L	ND	5.0	12/17/11 02:30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	12/17/11 02:30	
Acetone	ug/L	ND	100	12/17/11 02:30	
Acrolein	ug/L	ND	50.0	12/17/11 02:30	
Acrylonitrile	ug/L	ND	100	12/17/11 02:30	
Benzene	ug/L	ND	5.0	12/17/11 02:30	
Bromobenzene	ug/L	ND	5.0	12/17/11 02:30	
Bromochloromethane	ug/L	ND	5.0	12/17/11 02:30	
Bromodichloromethane	ug/L	ND	5.0	12/17/11 02:30	
Bromoform	ug/L	ND	5.0	12/17/11 02:30	
Bromomethane	ug/L	ND	5.0	12/17/11 02:30	
Carbon disulfide	ug/L	ND	10.0	12/17/11 02:30	
Carbon tetrachloride	ug/L	ND	5.0	12/17/11 02:30	
Chlorobenzene	ug/L	ND	5.0	12/17/11 02:30	
Chloroethane	ug/L	ND	5.0	12/17/11 02:30	
Chloroform	ug/L	ND	5.0	12/17/11 02:30	
Chloromethane	ug/L	ND	5.0	12/17/11 02:30	
cis-1,2-Dichloroethene	ug/L	ND	5.0	12/17/11 02:30	
cis-1,3-Dichloropropene	ug/L	ND	5.0	12/17/11 02:30	
Dibromochloromethane	ug/L	ND	5.0	12/17/11 02:30	

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QUALITY CONTROL DATA

Project: Michigan Plaza M04046
Pace Project No.: 5055910

METHOD BLANK: 662434 Matrix: Water

Associated Lab Samples: 5055910004, 5055910005, 5055910006, 5055910007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	5.0	12/17/11 02:30	
Dichlorodifluoromethane	ug/L	ND	5.0	12/17/11 02:30	
Ethyl methacrylate	ug/L	ND	100	12/17/11 02:30	
Ethylbenzene	ug/L	ND	5.0	12/17/11 02:30	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	12/17/11 02:30	
Iodomethane	ug/L	ND	10.0	12/17/11 02:30	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	12/17/11 02:30	
Methyl-tert-butyl ether	ug/L	ND	4.0	12/17/11 02:30	
Methylene Chloride	ug/L	ND	5.0	12/17/11 02:30	
n-Butylbenzene	ug/L	ND	5.0	12/17/11 02:30	
n-Hexane	ug/L	ND	5.0	12/17/11 02:30	N2
n-Propylbenzene	ug/L	ND	5.0	12/17/11 02:30	
Naphthalene	ug/L	ND	5.0	12/17/11 02:30	
p-Isopropyltoluene	ug/L	ND	5.0	12/17/11 02:30	
sec-Butylbenzene	ug/L	ND	5.0	12/17/11 02:30	
Styrene	ug/L	ND	5.0	12/17/11 02:30	
tert-Butylbenzene	ug/L	ND	5.0	12/17/11 02:30	
Tetrachloroethene	ug/L	ND	5.0	12/17/11 02:30	
Toluene	ug/L	ND	5.0	12/17/11 02:30	
trans-1,2-Dichloroethene	ug/L	ND	5.0	12/17/11 02:30	
trans-1,3-Dichloropropene	ug/L	ND	5.0	12/17/11 02:30	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	12/17/11 02:30	
Trichloroethene	ug/L	ND	5.0	12/17/11 02:30	
Trichlorofluoromethane	ug/L	ND	5.0	12/17/11 02:30	
Vinyl acetate	ug/L	ND	50.0	12/17/11 02:30	
Vinyl chloride	ug/L	ND	2.0	12/17/11 02:30	
Xylene (Total)	ug/L	ND	10.0	12/17/11 02:30	
4-Bromofluorobenzene (S)	%.	102	72-125	12/17/11 02:30	
Dibromofluoromethane (S)	%.	101	83-123	12/17/11 02:30	
Toluene-d8 (S)	%.	103	81-114	12/17/11 02:30	

LABORATORY CONTROL SAMPLE: 662435

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.4	105	69-122	
1,1,1-Trichloroethane	ug/L	50	52.1	104	69-126	
1,1,2,2-Tetrachloroethane	ug/L	50	50.9	102	68-134	
1,1,2-Trichloroethane	ug/L	50	50.7	101	77-129	
1,1-Dichloroethane	ug/L	50	50.4	101	70-127	
1,1-Dichloroethene	ug/L	50	50.0	100	75-145	
1,1-Dichloropropene	ug/L	50	49.4	99	75-126	
1,2,3-Trichlorobenzene	ug/L	50	47.0	94	63-130	
1,2,3-Trichloropropane	ug/L	50	80.0	160	45-121	L3
1,2,4-Trichlorobenzene	ug/L	50	46.6	93	64-122	
1,2,4-Trimethylbenzene	ug/L	50	48.9	98	68-129	

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QUALITY CONTROL DATA

Project: Michigan Plaza M04046
Pace Project No.: 5055910

LABORATORY CONTROL SAMPLE: 662435

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	50	48.2	96	77-123	
1,2-Dichlorobenzene	ug/L	50	46.8	94	74-123	
1,2-Dichloroethane	ug/L	50	50.9	102	71-127	
1,2-Dichloropropane	ug/L	50	48.7	97	75-126	
1,3,5-Trimethylbenzene	ug/L	50	48.5	97	69-129	
1,3-Dichlorobenzene	ug/L	50	45.3	91	76-123	
1,3-Dichloropropane	ug/L	50	47.0	94	77-126	
1,4-Dichlorobenzene	ug/L	50	47.2	94	77-121	
2,2-Dichloropropane	ug/L	50	49.3	99	45-138	
2-Butanone (MEK)	ug/L	250	213	85	42-177	
2-Chlorotoluene	ug/L	50	46.8	94	74-129	
2-Hexanone	ug/L	250	195	78	57-162	
4-Chlorotoluene	ug/L	50	48.5	97	70-125	
4-Methyl-2-pentanone (MIBK)	ug/L	250	227	91	64-135	
Acetone	ug/L	250	199	80	10-200	
Acrolein	ug/L	1000	1630	163	10-200	
Acrylonitrile	ug/L	1000	1020	102	59-144	
Benzene	ug/L	50	46.6	93	76-123	
Bromobenzene	ug/L	50	64.8	130	67-130	
Bromochloromethane	ug/L	50	52.7	105	58-153	
Bromodichloromethane	ug/L	50	48.6	97	71-124	
Bromoform	ug/L	50	33.0	66	64-116	
Bromomethane	ug/L	50	60.1	120	23-197	
Carbon disulfide	ug/L	100	103	103	55-146	
Carbon tetrachloride	ug/L	50	48.0	96	65-125	
Chlorobenzene	ug/L	50	47.8	96	78-120	
Chloroethane	ug/L	50	51.2	102	56-163	
Chloroform	ug/L	50	48.7	97	73-122	
Chloromethane	ug/L	50	48.5	97	46-146	
cis-1,2-Dichloroethene	ug/L	50	48.9	98	79-129	
cis-1,3-Dichloropropene	ug/L	50	49.3	99	66-123	
Dibromochloromethane	ug/L	50	38.2	76	70-123	
Dibromomethane	ug/L	50	51.1	102	73-123	
Dichlorodifluoromethane	ug/L	50	43.4	87	19-200	
Ethyl methacrylate	ug/L	200	185	93	70-127	
Ethylbenzene	ug/L	50	47.8	96	75-120	
Hexachloro-1,3-butadiene	ug/L	50	45.3	91	64-131	
Iodomethane	ug/L	100	106	106	16-181	
Isopropylbenzene (Cumene)	ug/L	50	50.0	100	73-123	
Methyl-tert-butyl ether	ug/L	100	96.5	97	66-128	
Methylene Chloride	ug/L	50	49.5	99	61-138	
n-Butylbenzene	ug/L	50	47.5	95	69-130	
n-Hexane	ug/L	50	39.6	79	67-142	N2
n-Propylbenzene	ug/L	50	46.9	94	71-132	
Naphthalene	ug/L	50	48.2	96	62-130	
p-Isopropyltoluene	ug/L	50	47.1	94	71-126	
sec-Butylbenzene	ug/L	50	47.6	95	69-130	
Styrene	ug/L	50	46.1	92	75-125	

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QUALITY CONTROL DATA

Project: Michigan Plaza M04046
Pace Project No.: 5055910

LABORATORY CONTROL SAMPLE: 662435

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	45.2	90	49-114	
Tetrachloroethene	ug/L	50	38.7	77	57-125	
Toluene	ug/L	50	44.6	89	72-124	
trans-1,2-Dichloroethene	ug/L	50	48.3	97	71-145	
trans-1,3-Dichloropropene	ug/L	50	46.6	93	58-118	
trans-1,4-Dichloro-2-butene	ug/L	200	180	90	50-121	
Trichloroethene	ug/L	50	47.5	95	77-122	
Trichlorofluoromethane	ug/L	50	49.3	99	56-159	
Vinyl acetate	ug/L	200	163	81	27-119	
Vinyl chloride	ug/L	50	50.4	101	61-146	
Xylene (Total)	ug/L	150	139	93	72-126	
4-Bromofluorobenzene (S)	%.			98	72-125	
Dibromofluoromethane (S)	%.			102	83-123	
Toluene-d8 (S)	%.			96	81-114	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 662436 662437

Parameter	Units	5055910004 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/L	ND	50	50	44.9	44.3	90	89	30-122	1	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	48.0	48.4	96	97	37-136	.7	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	50.1	54.7	100	109	47-132	9	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	52.3	52.1	105	104	53-131	.3	20	
1,1-Dichloroethane	ug/L	ND	50	50	51.2	50.2	102	100	47-138	2	20	
1,1-Dichloroethene	ug/L	ND	50	50	47.5	44.1	95	88	54-152	7	20	
1,1-Dichloropropene	ug/L	ND	50	50	39.9	36.7	80	73	47-136	8	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	33.4	28.7	67	57	15-132	15	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	73.2	78.4	146	157	24-108	7	20	M0
1,2,4-Trichlorobenzene	ug/L	ND	50	50	29.0	24.1	58	48	10-130	19	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	26.6	21.2	53	42	10-141	23	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	50.6	48.1	101	96	49-130	5	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	33.5	29.9	67	60	20-137	12	20	
1,2-Dichloroethane	ug/L	ND	50	50	50.3	49.9	101	100	42-139	.8	20	
1,2-Dichloropropane	ug/L	ND	50	50	46.4	46.7	93	93	50-131	.7	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	25.2	21.2	50	42	10-145	17	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	28.4	24.7	57	49	13-143	14	20	
1,3-Dichloropropane	ug/L	ND	50	50	47.1	45.2	94	90	53-130	4	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	29.3	23.2	59	46	13-140	23	20	
2,2-Dichloropropane	ug/L	ND	50	50	45.1	45.4	90	91	13-142	.6	20	
2-Butanone (MEK)	ug/L	ND	250	250	219	222	88	89	43-142	2	20	
2-Chlorotoluene	ug/L	ND	50	50	27.0	23.5	54	47	15-145	14	20	
2-Hexanone	ug/L	ND	250	250	202	212	81	85	46-139	5	20	
4-Chlorotoluene	ug/L	ND	50	50	27.9	23.5	56	47	12-143	17	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	245	254	98	102	43-140	4	20	
Acetone	ug/L	ND	250	250	167	165	67	66	38-155	1	20	
Acrolein	ug/L	ND	1000	1000	1720	1730	172	173	11-200	.5	20	
Acrylonitrile	ug/L	ND	1000	1000	1130	1120	113	112	42-150	.8	20	

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QUALITY CONTROL DATA

Project: Michigan Plaza M04046
Pace Project No.: 5055910

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 662436 662437

Parameter	Units	5055910004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	50	50	42.3	38.6	85	77	52-134	9	20	
Bromobenzene	ug/L	ND	50	50	34.9	48.3	70	97	25-140	32	20	
Bromochloromethane	ug/L	ND	50	50	51.7	49.3	103	99	54-144	5	20	
Bromodichloromethane	ug/L	ND	50	50	45.9	46.6	92	93	42-128	1	20	
Bromoform	ug/L	ND	50	50	30.1	30.3	60	61	34-116	.5	20	
Bromomethane	ug/L	ND	50	50	59.6	57.1	119	114	10-200	4	20	
Carbon disulfide	ug/L	ND	100	100	89.7	88.4	90	88	43-144	1	20	
Carbon tetrachloride	ug/L	ND	50	50	41.6	39.6	83	79	26-136	5	20	
Chlorobenzene	ug/L	ND	50	50	34.8	32.0	70	64	33-136	8	20	
Chloroethane	ug/L	ND	50	50	59.4	52.8	119	106	21-200	12	20	
Chloroform	ug/L	ND	50	50	46.6	46.8	93	94	50-134	.5	20	
Chloromethane	ug/L	ND	50	50	50.7	48.1	101	96	32-160	5	20	
cis-1,2-Dichloroethene	ug/L	37.2	50	50	75.1	71.5	76	69	48-145	5	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	44.9	43.3	90	87	35-116	4	20	
Dibromochloromethane	ug/L	ND	50	50	37.9	36.8	76	74	39-122	3	20	
Dibromomethane	ug/L	ND	50	50	50.9	49.8	102	100	49-134	2	20	
Dichlorodifluoromethane	ug/L	ND	50	50	49.0	46.9	98	94	35-200	4	20	
Ethyl methacrylate	ug/L	ND	200	200	192	199	96	99	54-123	3	20	
Ethylbenzene	ug/L	ND	50	50	31.3	27.2	63	54	29-132	14	20	
Hexachloro-1,3-butadiene	ug/L	ND	50	50	15.2	10.5	30	21	10-146	37	20	
Iodomethane	ug/L	ND	100	100	108	104	108	104	10-171	3	20	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	27.9	23.6	56	47	11-146	17	20	
Methyl-tert-butyl ether	ug/L	ND	100	100	107	104	107	104	39-137	3	20	
Methylene Chloride	ug/L	ND	50	50	49.6	47.8	99	96	47-141	4	20	
n-Butylbenzene	ug/L	ND	50	50	17.8	13.2	36	26	10-156	30	20	
n-Hexane	ug/L	ND	50	50	37.2	33.4	74	67	51-137	11	20	N2
n-Propylbenzene	ug/L	ND	50	50	22.0	18.0	44	36	10-148	20	20	
Naphthalene	ug/L	ND	50	50	41.4	38.0	83	76	40-124	9	20	
p-Isopropyltoluene	ug/L	ND	50	50	20.2	15.8	40	32	10-150	24	20	
sec-Butylbenzene	ug/L	ND	50	50	21.8	17.4	44	35	10-150	23	20	
Styrene	ug/L	ND	50	50	32.6	28.4	65	57	20-143	14	20	
tert-Butylbenzene	ug/L	ND	50	50	23.4	19.9	47	40	10-123	16	20	
Tetrachloroethene	ug/L	ND	50	50	24.9	23.5	50	47	30-124	6	20	
Toluene	ug/L	ND	50	50	35.1	33.2	70	66	42-130	5	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	44.2	42.1	86	82	48-144	5	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	43.1	41.3	86	83	24-114	4	20	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	173	180	87	90	22-120	4	20	
Trichloroethene	ug/L	ND	50	50	37.6	37.1	75	73	44-130	1	20	
Trichlorofluoromethane	ug/L	ND	50	50	49.1	49.2	98	98	17-200	.2	20	
Vinyl acetate	ug/L	ND	200	200	183	184	91	92	10-115	.6	20	
Vinyl chloride	ug/L	74.3	50	50	127	117	105	85	45-159	8	20	
Xylene (Total)	ug/L	ND	150	150	89.4	76.2	60	51	29-131	16	20	
4-Bromofluorobenzene (S)	%.						94	98	72-125		20	
Dibromofluoromethane (S)	%.						100	99	83-123		20	2d
Toluene-d8 (S)	%.						96	99	81-114		20	

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QUALITY CONTROL DATA

Project: Michigan Plaza M04046
Pace Project No.: 5055910

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 662438 662439

Parameter	Units	5055910006 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/L	ND	50	50	46.6	35.8	93	72	30-122	26	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	51.2	40.7	102	81	37-136	23	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	57.6	42.3	115	85	47-132	31	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	55.4	45.9	111	92	53-131	19	20	
1,1-Dichloroethane	ug/L	ND	50	50	52.1	43.0	104	86	47-138	19	20	
1,1-Dichloroethene	ug/L	ND	50	50	50.6	42.6	101	85	54-152	17	20	
1,1-Dichloropropene	ug/L	ND	50	50	42.3	33.3	85	67	47-136	24	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	27.5	20.1	55	40	15-132	31	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	83.9	62.3	168	125	24-108	30	20	M0
1,2,4-Trichlorobenzene	ug/L	ND	50	50	23.2	16.1	46	32	10-130	36	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	20.4	11.5	41	23	10-141	56	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	51.4	43.6	103	87	49-130	16	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	29.2	20.3	58	41	20-137	36	20	
1,2-Dichloroethane	ug/L	ND	50	50	55.9	47.4	112	95	42-139	17	20	
1,2-Dichloropropane	ug/L	ND	50	50	50.9	40.8	102	82	50-131	22	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	20.2	11.8	40	24	10-145	53	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	23.0	14.9	46	30	13-143	43	20	
1,3-Dichloropropane	ug/L	ND	50	50	52.7	39.3	105	79	53-130	29	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	22.9	14.7	46	29	13-140	44	20	
2,2-Dichloropropane	ug/L	ND	50	50	46.9	36.2	94	72	13-142	26	20	
2-Butanone (MEK)	ug/L	ND	250	250	229	186	92	74	43-142	21	20	
2-Chlorotoluene	ug/L	ND	50	50	22.9	13.6	46	27	15-145	51	20	
2-Hexanone	ug/L	ND	250	250	221	192	89	77	46-139	14	20	
4-Chlorotoluene	ug/L	ND	50	50	22.5	13.6	45	27	12-143	49	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	282	237	113	95	43-140	17	20	
Acetone	ug/L	ND	250	250	183	160	73	64	38-155	13	20	
Acrolein	ug/L	ND	1000	1000	1890	1560	189	156	11-200	19	20	
Acrylonitrile	ug/L	ND	1000	1000	1190	1050	119	105	42-150	12	20	
Benzene	ug/L	ND	50	50	43.2	35.0	86	70	52-134	21	20	
Bromobenzene	ug/L	ND	50	50	33.2	21.4	66	43	25-140	43	20	
Bromochloromethane	ug/L	ND	50	50	54.9	47.5	110	95	54-144	15	20	
Bromodichloromethane	ug/L	ND	50	50	47.5	39.7	95	79	42-128	18	20	
Bromoform	ug/L	ND	50	50	33.8	25.0	68	50	34-116	30	20	
Bromomethane	ug/L	ND	50	50	62.6	48.4	125	97	10-200	26	20	
Carbon disulfide	ug/L	ND	100	100	92.2	75.1	92	75	43-144	20	20	
Carbon tetrachloride	ug/L	ND	50	50	43.9	35.3	88	71	26-136	22	20	
Chlorobenzene	ug/L	ND	50	50	32.8	23.1	66	46	33-136	35	20	
Chloroethane	ug/L	ND	50	50	59.6	49.6	119	99	21-200	18	20	
Chloroform	ug/L	ND	50	50	49.7	39.7	99	79	50-134	22	20	
Chloromethane	ug/L	ND	50	50	52.2	42.2	104	84	32-160	21	20	
cis-1,2-Dichloroethene	ug/L	42.4	50	50	83.5	71.1	82	57	48-145	16	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	46.3	38.3	93	77	35-116	19	20	
Dibromochloromethane	ug/L	ND	50	50	39.7	33.5	79	67	39-122	17	20	
Dibromomethane	ug/L	ND	50	50	53.2	43.7	106	87	49-134	20	20	
Dichlorodifluoromethane	ug/L	ND	50	50	55.5	40.5	111	81	35-200	31	20	
Ethyl methacrylate	ug/L	ND	200	200	207	174	103	87	54-123	17	20	
Ethylbenzene	ug/L	ND	50	50	28.5	19.1	57	38	29-132	40	20	

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QUALITY CONTROL DATA

Project: Michigan Plaza M04046
Pace Project No.: 5055910

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 662438 662439

Parameter	Units	5055910006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Hexachloro-1,3-butadiene	ug/L	ND	50	50	8.6	4.5J	17	9	10-146		20	M0
Iodomethane	ug/L	ND	100	100	116	92.4	116	92	10-171	23	20	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	23.7	14.7	47	29	11-146	47	20	
Methyl-tert-butyl ether	ug/L	ND	100	100	113	101	113	101	39-137	11	20	
Methylene Chloride	ug/L	ND	50	50	51.3	44.8	103	90	47-141	14	20	
n-Butylbenzene	ug/L	ND	50	50	11.8	6.1	24	12	10-156	64	20	
n-Hexane	ug/L	ND	50	50	35.2	29.3	70	59	51-137	18	20	N2
n-Propylbenzene	ug/L	ND	50	50	17.9	9.7	36	19	10-148	59	20	
Naphthalene	ug/L	ND	50	50	39.1	32.3	78	65	40-124	19	20	
p-Isopropyltoluene	ug/L	ND	50	50	14.5	7.9	29	16	10-150	59	20	
sec-Butylbenzene	ug/L	ND	50	50	16.1	9.0	32	18	10-150	57	20	
Styrene	ug/L	ND	50	50	30.4	22.0	61	44	20-143	32	20	
tert-Butylbenzene	ug/L	ND	50	50	18.4	10.5	37	21	10-123	55	20	
Tetrachloroethene	ug/L	ND	50	50	25.2	16.0	50	32	30-124	45	20	
Toluene	ug/L	ND	50	50	35.4	26.3	70	52	42-130	30	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	45.8	37.8	88	72	48-144	19	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	45.0	34.8	90	70	24-114	26	20	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	183	152	91	76	22-120	18	20	
Trichloroethene	ug/L	ND	50	50	39.9	29.3	80	59	44-130	31	20	
Trichlorofluoromethane	ug/L	ND	50	50	51.5	42.0	103	84	17-200	20	20	
Vinyl acetate	ug/L	ND	200	200	201	170	100	85	10-115	17	20	
Vinyl chloride	ug/L	25.5	50	50	79.3	66.9	108	83	45-159	17	20	
Xylene (Total)	ug/L	ND	150	150	82.5	54.7	55	36	29-131	41	20	
4-Bromofluorobenzene (S)	%.						102	103	72-125		20	
Dibromofluoromethane (S)	%.						98	103	83-123		20	2d
Toluene-d8 (S)	%.						99	99	81-114		20	

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QUALITY CONTROL DATA

Project: Michigan Plaza M04046
Pace Project No.: 5055910

QC Batch: MSV/38194 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 5055910001, 5055910002, 5055910003

METHOD BLANK: 663374 Matrix: Solid
Associated Lab Samples: 5055910001, 5055910002, 5055910003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	12/17/11 19:18	
1,1,1-Trichloroethane	ug/kg	ND	5.0	12/17/11 19:18	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	12/17/11 19:18	
1,1,2-Trichloroethane	ug/kg	ND	5.0	12/17/11 19:18	
1,1-Dichloroethane	ug/kg	ND	5.0	12/17/11 19:18	
1,1-Dichloroethene	ug/kg	ND	5.0	12/17/11 19:18	
1,1-Dichloropropene	ug/kg	ND	5.0	12/17/11 19:18	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	12/17/11 19:18	
1,2,3-Trichloropropane	ug/kg	ND	5.0	12/17/11 19:18	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	12/17/11 19:18	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	12/17/11 19:18	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	12/17/11 19:18	
1,2-Dichlorobenzene	ug/kg	ND	5.0	12/17/11 19:18	
1,2-Dichloroethane	ug/kg	ND	5.0	12/17/11 19:18	
1,2-Dichloropropane	ug/kg	ND	5.0	12/17/11 19:18	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	12/17/11 19:18	
1,3-Dichlorobenzene	ug/kg	ND	5.0	12/17/11 19:18	
1,3-Dichloropropane	ug/kg	ND	5.0	12/17/11 19:18	
1,4-Dichlorobenzene	ug/kg	ND	5.0	12/17/11 19:18	
2,2-Dichloropropane	ug/kg	ND	5.0	12/17/11 19:18	
2-Butanone (MEK)	ug/kg	ND	25.0	12/17/11 19:18	
2-Chlorotoluene	ug/kg	ND	5.0	12/17/11 19:18	
2-Hexanone	ug/kg	ND	100	12/17/11 19:18	
4-Chlorotoluene	ug/kg	ND	5.0	12/17/11 19:18	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	12/17/11 19:18	
Acetone	ug/kg	ND	100	12/17/11 19:18	
Acrolein	ug/kg	ND	100	12/17/11 19:18	
Acrylonitrile	ug/kg	ND	100	12/17/11 19:18	
Benzene	ug/kg	ND	5.0	12/17/11 19:18	
Bromobenzene	ug/kg	ND	5.0	12/17/11 19:18	
Bromochloromethane	ug/kg	ND	5.0	12/17/11 19:18	
Bromodichloromethane	ug/kg	ND	5.0	12/17/11 19:18	
Bromoform	ug/kg	ND	5.0	12/17/11 19:18	
Bromomethane	ug/kg	ND	5.0	12/17/11 19:18	
Carbon disulfide	ug/kg	ND	10.0	12/17/11 19:18	
Carbon tetrachloride	ug/kg	ND	5.0	12/17/11 19:18	
Chlorobenzene	ug/kg	ND	5.0	12/17/11 19:18	
Chloroethane	ug/kg	ND	5.0	12/17/11 19:18	
Chloroform	ug/kg	ND	5.0	12/17/11 19:18	
Chloromethane	ug/kg	ND	5.0	12/17/11 19:18	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	12/17/11 19:18	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	12/17/11 19:18	
Dibromochloromethane	ug/kg	ND	5.0	12/17/11 19:18	

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QUALITY CONTROL DATA

Project: Michigan Plaza M04046
Pace Project No.: 5055910

METHOD BLANK: 663374 Matrix: Solid

Associated Lab Samples: 5055910001, 5055910002, 5055910003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	5.0	12/17/11 19:18	
Dichlorodifluoromethane	ug/kg	ND	5.0	12/17/11 19:18	
Ethyl methacrylate	ug/kg	ND	100	12/17/11 19:18	
Ethylbenzene	ug/kg	ND	5.0	12/17/11 19:18	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	12/17/11 19:18	
Iodomethane	ug/kg	ND	100	12/17/11 19:18	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	12/17/11 19:18	
Methyl-tert-butyl ether	ug/kg	ND	5.0	12/17/11 19:18	
Methylene Chloride	ug/kg	ND	20.0	12/17/11 19:18	
n-Butylbenzene	ug/kg	ND	5.0	12/17/11 19:18	
n-Hexane	ug/kg	ND	5.0	12/17/11 19:18	
n-Propylbenzene	ug/kg	ND	5.0	12/17/11 19:18	
Naphthalene	ug/kg	ND	5.0	12/17/11 19:18	
p-Isopropyltoluene	ug/kg	ND	5.0	12/17/11 19:18	
sec-Butylbenzene	ug/kg	ND	5.0	12/17/11 19:18	
Styrene	ug/kg	ND	5.0	12/17/11 19:18	
tert-Butylbenzene	ug/kg	ND	5.0	12/17/11 19:18	
Tetrachloroethene	ug/kg	ND	5.0	12/17/11 19:18	
Toluene	ug/kg	ND	5.0	12/17/11 19:18	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	12/17/11 19:18	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	12/17/11 19:18	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	12/17/11 19:18	
Trichloroethene	ug/kg	ND	5.0	12/17/11 19:18	
Trichlorofluoromethane	ug/kg	ND	5.0	12/17/11 19:18	
Vinyl acetate	ug/kg	ND	100	12/17/11 19:18	
Vinyl chloride	ug/kg	ND	5.0	12/17/11 19:18	
Xylene (Total)	ug/kg	ND	10.0	12/17/11 19:18	
4-Bromofluorobenzene (S)	%.	100	67-134	12/17/11 19:18	
Dibromofluoromethane (S)	%.	105	71-125	12/17/11 19:18	
Toluene-d8 (S)	%.	97	76-124	12/17/11 19:18	

LABORATORY CONTROL SAMPLE: 663375

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	47.4	95	70-130	
1,1,1-Trichloroethane	ug/kg	50	45.3	91	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	50	47.2	94	70-130	
1,1,2-Trichloroethane	ug/kg	50	48.3	97	70-130	
1,1-Dichloroethane	ug/kg	50	44.0	88	70-130	
1,1-Dichloroethene	ug/kg	50	44.4	89	70-130	
1,1-Dichloropropene	ug/kg	50	42.4	85	70-130	
1,2,3-Trichlorobenzene	ug/kg	50	45.1	90	70-130	
1,2,3-Trichloropropane	ug/kg	50	77.8	156	70-130	L3
1,2,4-Trichlorobenzene	ug/kg	50	46.6	93	70-130	
1,2,4-Trimethylbenzene	ug/kg	50	45.9	92	70-130	

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QUALITY CONTROL DATA

Project: Michigan Plaza M04046
Pace Project No.: 5055910

LABORATORY CONTROL SAMPLE: 663375

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/kg	50	45.0	90	70-130	
1,2-Dichlorobenzene	ug/kg	50	43.1	86	70-130	
1,2-Dichloroethane	ug/kg	50	45.3	91	70-130	
1,2-Dichloropropane	ug/kg	50	44.8	90	70-130	
1,3,5-Trimethylbenzene	ug/kg	50	42.2	84	70-130	
1,3-Dichlorobenzene	ug/kg	50	41.9	84	70-130	
1,3-Dichloropropane	ug/kg	50	44.5	89	70-130	
1,4-Dichlorobenzene	ug/kg	50	43.5	87	70-130	
2,2-Dichloropropane	ug/kg	50	46.0	92	40-160	
2-Butanone (MEK)	ug/kg	250	188	75	40-160	
2-Chlorotoluene	ug/kg	50	44.0	88	70-130	
2-Hexanone	ug/kg	250	171	69	40-160	
4-Chlorotoluene	ug/kg	50	43.6	87	70-130	
4-Methyl-2-pentanone (MIBK)	ug/kg	250	211	85	70-130	
Acetone	ug/kg	250	157	63	40-160	
Acrolein	ug/kg	1000	1430	143	40-160	
Acrylonitrile	ug/kg	1000	889	89	70-130	
Benzene	ug/kg	50	39.5	79	70-130	
Bromobenzene	ug/kg	50	59.0	118	70-130	
Bromochloromethane	ug/kg	50	43.9	88	70-130	
Bromodichloromethane	ug/kg	50	44.0	88	70-130	
Bromoform	ug/kg	50	30.2	60	70-130	L0
Bromomethane	ug/kg	50	51.7	103	40-160	
Carbon disulfide	ug/kg	100	90.6	91	40-160	
Carbon tetrachloride	ug/kg	50	40.9	82	70-130	
Chlorobenzene	ug/kg	50	43.2	86	70-130	
Chloroethane	ug/kg	50	48.1	96	70-130	
Chloroform	ug/kg	50	42.7	85	70-130	
Chloromethane	ug/kg	50	41.8	84	70-130	
cis-1,2-Dichloroethene	ug/kg	50	42.0	84	70-130	
cis-1,3-Dichloropropene	ug/kg	50	46.8	94	70-130	
Dibromochloromethane	ug/kg	50	37.4	75	70-130	
Dibromomethane	ug/kg	50	44.4	89	70-130	
Dichlorodifluoromethane	ug/kg	50	39.7	79	70-130	
Ethyl methacrylate	ug/kg	200	177	88	40-160	
Ethylbenzene	ug/kg	50	43.8	88	70-130	
Hexachloro-1,3-butadiene	ug/kg	50	41.8	84	70-130	
Iodomethane	ug/kg	100	91.2J	91	70-130	
Isopropylbenzene (Cumene)	ug/kg	50	44.1	88	70-130	
Methyl-tert-butyl ether	ug/kg	100	84.8	85	40-160	
Methylene Chloride	ug/kg	50	39.1	78	70-130	
n-Butylbenzene	ug/kg	50	45.5	91	70-130	
n-Hexane	ug/kg	50	30.9	62	70-130	L0
n-Propylbenzene	ug/kg	50	42.4	85	70-130	
Naphthalene	ug/kg	50	44.4	89	70-130	
p-Isopropyltoluene	ug/kg	50	43.1	86	70-130	
sec-Butylbenzene	ug/kg	50	41.1	82	70-130	
Styrene	ug/kg	50	40.7	81	70-130	

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QUALITY CONTROL DATA

Project: Michigan Plaza M04046
Pace Project No.: 5055910

LABORATORY CONTROL SAMPLE: 663375

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/kg	50	36.1	72	70-130	
Tetrachloroethene	ug/kg	50	35.8	72	70-130	
Toluene	ug/kg	50	40.4	81	70-130	
trans-1,2-Dichloroethene	ug/kg	50	41.0	82	70-130	
trans-1,3-Dichloropropene	ug/kg	50	44.9	90	70-130	
trans-1,4-Dichloro-2-butene	ug/kg	200	179	90	70-130	
Trichloroethene	ug/kg	50	40.7	81	70-130	
Trichlorofluoromethane	ug/kg	50	41.1	82	70-130	
Vinyl acetate	ug/kg	200	179	90	40-160	
Vinyl chloride	ug/kg	50	43.3	87	70-130	
Xylene (Total)	ug/kg	150	124	83	70-130	
4-Bromofluorobenzene (S)	%.			101	70-130	
Dibromofluoromethane (S)	%.			103	70-130	
Toluene-d8 (S)	%.			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 663376 663377

Parameter	Units	5055910002 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	42.8	49.9	33.3	37.8	78	76	10-111	12	20	
1,1,1-Trichloroethane	ug/kg	ND	42.8	49.9	43.4	43.7	102	88	36-128	.5	20	
1,1,2,2-Tetrachloroethane	ug/kg	ND	42.8	49.9	31.3	39.8	73	80	10-130	24	20	
1,1,2-Trichloroethane	ug/kg	ND	42.8	49.9	37.9	42.9	89	86	10-126	13	20	
1,1-Dichloroethane	ug/kg	ND	42.8	49.9	43.2	43.3	101	87	39-126	.1	20	
1,1-Dichloroethene	ug/kg	ND	42.8	49.9	42.6	41.9	100	84	42-147	2	20	
1,1-Dichloropropene	ug/kg	ND	42.8	49.9	36.4	38.1	85	77	29-129	5	20	
1,2,3-Trichlorobenzene	ug/kg	ND	42.8	49.9	13.1	20.0	31	40	10-91	41	20	
1,2,3-Trichloropropane	ug/kg	ND	42.8	49.9	45.1	59.7	106	120	10-99	28	20	M0
1,2,4-Trichlorobenzene	ug/kg	ND	42.8	49.9	13.6	19.5	32	39	10-88	36	20	
1,2,4-Trimethylbenzene	ug/kg	ND	42.8	49.9	20.5	27.3	48	55	10-109	28	20	
1,2-Dibromoethane (EDB)	ug/kg	ND	42.8	49.9	32.7	37.8	77	76	10-119	15	20	
1,2-Dichlorobenzene	ug/kg	ND	42.8	49.9	19.3	25.9	45	52	10-104	29	20	
1,2-Dichloroethane	ug/kg	ND	42.8	49.9	41.5	45.4	97	91	19-126	9	20	
1,2-Dichloropropane	ug/kg	ND	42.8	49.9	35.4	41.3	83	83	24-123	15	20	
1,3,5-Trimethylbenzene	ug/kg	ND	42.8	49.9	21.8	29.1	51	58	10-118	29	20	
1,3-Dichlorobenzene	ug/kg	ND	42.8	49.9	18.3	24.3	43	49	10-108	28	20	
1,3-Dichloropropane	ug/kg	ND	42.8	49.9	33.3	38.1	78	76	12-121	13	20	
1,4-Dichlorobenzene	ug/kg	ND	42.8	49.9	18.1	23.9	42	48	10-104	27	20	
2,2-Dichloropropane	ug/kg	ND	42.8	49.9	41.1	44.5	96	89	32-124	8	20	
2-Butanone (MEK)	ug/kg	ND	214	249	214	242	100	97	10-183	12	20	
2-Chlorotoluene	ug/kg	ND	42.8	49.9	21.6	27.9	51	56	10-128	25	20	
2-Hexanone	ug/kg	ND	214	249	166	193	78	77	10-158	15	20	
4-Chlorotoluene	ug/kg	ND	42.8	49.9	20.7	27.0	48	54	10-119	27	20	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	214	249	192	216	90	87	12-130	12	20	
Acetone	ug/kg	748	214	249	290	1050	-214	121	10-200	113	20	M0
Acrolein	ug/kg	ND	855	996	1400	1510	164	152	10-200	8	20	
Acrylonitrile	ug/kg	ND	855	996	864	940	101	94	19-130	8	20	

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QUALITY CONTROL DATA

Project: Michigan Plaza M04046
Pace Project No.: 5055910

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 663376 663377

Parameter	Units	5055910002 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	42.8	49.9	34.1	37.7	80	76	23-138	10	20	
Bromobenzene	ug/kg	ND	42.8	49.9	21.9	39.9	51	80	10-111	58	20	
Bromochloromethane	ug/kg	ND	42.8	49.9	40.2	43.9	94	88	26-126	9	20	
Bromodichloromethane	ug/kg	ND	42.8	49.9	32.8	38.0	77	76	10-120	15	20	
Bromoform	ug/kg	ND	42.8	49.9	18.7	23.4	44	47	10-106	22	20	
Bromomethane	ug/kg	ND	42.8	49.9	48.9	49.3	114	99	10-190	.8	20	
Carbon disulfide	ug/kg	ND	85.5	99.6	81.3	85.8	95	86	31-128	5	20	
Carbon tetrachloride	ug/kg	ND	42.8	49.9	37.6	38.5	88	77	26-126	2	20	
Chlorobenzene	ug/kg	ND	42.8	49.9	26.7	32.4	63	65	10-120	19	20	
Chloroethane	ug/kg	ND	42.8	49.9	47.9	50.9	112	102	18-186	6	20	
Chloroform	ug/kg	ND	42.8	49.9	37.7	42.3	88	85	29-126	12	20	
Chloromethane	ug/kg	ND	42.8	49.9	44.4	42.7	104	86	34-131	4	20	
cis-1,2-Dichloroethene	ug/kg	ND	42.8	49.9	38.4	42.2	89	84	28-132	9	20	
cis-1,3-Dichloropropene	ug/kg	ND	42.8	49.9	35.2	39.7	82	80	10-108	12	20	
Dibromochloromethane	ug/kg	ND	42.8	49.9	25.2	29.1	59	58	10-108	14	20	
Dibromomethane	ug/kg	ND	42.8	49.9	36.1	41.8	84	84	13-122	15	20	
Dichlorodifluoromethane	ug/kg	ND	42.8	49.9	42.6	42.5	100	85	10-197	.2	20	
Ethyl methacrylate	ug/kg	ND	171	199	136	156	79	78	10-130	14	20	
Ethylbenzene	ug/kg	ND	42.8	49.9	26.0	30.7	61	62	10-135	16	20	
Hexachloro-1,3-butadiene	ug/kg	ND	42.8	49.9	13.6	20.9	32	42	10-105	42	20	
Iodomethane	ug/kg	ND	85.5	99.6	87.7	89.6J	103	90	10-163		20	
Isopropylbenzene (Cumene)	ug/kg	ND	42.8	49.9	24.7	31.1	58	62	10-121	23	20	
Methyl-tert-butyl ether	ug/kg	ND	85.5	99.6	83.7	91.9	98	92	20-140	9	20	
Methylene Chloride	ug/kg	ND	42.8	49.9	36.6	39.4	86	79	28-131	7	20	
n-Butylbenzene	ug/kg	ND	42.8	49.9	16.6	22.7	39	46	10-110	31	20	
n-Hexane	ug/kg	ND	42.8	49.9	26.7	30.9	63	62	21-150	15	20	
n-Propylbenzene	ug/kg	ND	42.8	49.9	20.9	27.3	49	55	10-123	27	20	
Naphthalene	ug/kg	ND	42.8	49.9	16.8	23.4	39	47	10-106	33	20	
p-Isopropyltoluene	ug/kg	ND	42.8	49.9	18.8	25.3	44	51	10-117	29	20	
sec-Butylbenzene	ug/kg	ND	42.8	49.9	20.0	28.8	47	58	10-123	36	20	
Styrene	ug/kg	ND	42.8	49.9	24.0	28.7	56	58	10-119	18	20	
tert-Butylbenzene	ug/kg	ND	42.8	49.9	21.0	27.6	49	55	10-105	27	20	
Tetrachloroethene	ug/kg	ND	42.8	49.9	89.0	72.5	200	139	10-122	20	20	M0
Toluene	ug/kg	ND	42.8	49.9	30.3	34.9	71	70	10-131	14	20	
trans-1,2-Dichloroethene	ug/kg	ND	42.8	49.9	35.8	38.9	84	78	32-136	8	20	
trans-1,3-Dichloropropene	ug/kg	ND	42.8	49.9	30.0	36.1	70	72	10-101	19	20	
trans-1,4-Dichloro-2-butene	ug/kg	ND	171	199	103	131	60	66	10-104	24	20	
Trichloroethene	ug/kg	ND	42.8	49.9	39.3	41.6	91	82	15-133	6	20	
Trichlorofluoromethane	ug/kg	ND	42.8	49.9	41.9	44.2	98	89	37-152	5	20	
Vinyl acetate	ug/kg	ND	171	199	79.2J	152	46	76	10-103		20	
Vinyl chloride	ug/kg	ND	42.8	49.9	46.3	43.7	108	88	41-147	6	20	
Xylene (Total)	ug/kg	ND	129	150	75.6	91.5	59	61	10-131	19	20	
4-Bromofluorobenzene (S)	%.						100	100	67-134		20	
Dibromofluoromethane (S)	%.						109	102	71-125		20	1d
Toluene-d8 (S)	%.						98	96	76-124		20	

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QUALITY CONTROL DATA

Project: Michigan Plaza M04046
Pace Project No.: 5055910

QC Batch: PMST/6567 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 5055910001, 5055910002, 5055910003

SAMPLE DUPLICATE: 661691

Parameter	Units	5055934001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	15.0	15.6	4	5	

SAMPLE DUPLICATE: 661692

Parameter	Units	5055910002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	9.7	8.8	11	5	R2

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QUALIFIERS

Project: Michigan Plaza M04046
Pace Project No.: 5055910

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.

ANALYTE QUALIFIERS

1d	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits for several compounds. RSW 12/19/11
2d	RPD value was outside control limits for several compounds. RSW 12/19/11
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
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.
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.
R2	RPD value was outside control limits due to matrix interference
p2	Post-analysis pH measurement indicates pH > 2.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Michigan Plaza M04046
Pace Project No.: 5055910

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5055910004	**GP-31 36'**	EPA 8260	MSV/38155		
5055910005	**GP-31 26'**	EPA 8260	MSV/38155		
5055910006	**GP-30 35'**	EPA 8260	MSV/38155		
5055910007	**GP-30 25'**	EPA 8260	MSV/38155		
5055910001	**GP-31 16-17.5'**	EPA 8260	MSV/38194		
5055910002	**GP-30 16-18'**	EPA 8260	MSV/38194		
5055910003	**GP-30 35-35.5'**	EPA 8260	MSV/38194		
5055910001	**GP-31 16-17.5'**	ASTM D2974-87	PMST/6567		
5055910002	**GP-30 16-18'**	ASTM D2974-87	PMST/6567		
5055910003	**GP-30 35-35.5'**	ASTM D2974-87	PMST/6567		

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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 1

1514886

Section A Required Client Information:

Company: MUNDELL
Address:
Email To: swebb@mundellassociates.com
Phone: Fax:
Requested Due Date/TAT: 5 Days

Section B Required Project Information:

Report To: SARAH WEBB
Copy To:
Purchase Order No.:
Project Name: Michigan Plaza
Project Number: M01046

Section C Invoice Information:

Attention: MERLE TERBE
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

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

Site Location STATE: IN

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	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: 8260 VOC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 5055910
1	GP-31 16-17.5'	S	G	12/13/11		1410P			TC	X								X		-001
2	GP-31 36'	WW				1325P			3									X		-004
3	GP-31 26'	WW				1335P			3									X		-005
4	GP-30 16-18'	S				1010A		3	TC									X		MS/MSD -002
5	GP-30 ~~35~~ 35-35.5	S				1130A			TC									X		-003
6	GP-30 35	WW				1245P			9									X		MS/MSD 006
7	GP-30 25	W	↓	↓		1255P			3	↓								X		007
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Unpreserved 40 mLs		12/14/11	10:41		12/14/11	10:41	4.2°C	Y	N	Y
ShoA hold (11)										

CST/FED Pace 12/14/11

1250ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

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 # 5055910

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

Tracking #: 1514886

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

Date/Time 5035A kits placed in freezer: 12-14-11 1251

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): 4.2°C Ice Visible in Sample Containers: ☐ yes ☑ no

Temp should be above freezing to 6°C

Date and Initials of person examining contents: KO 12-14-11

				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. See Notes
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:

GP-31 36' ~~(3)~~ (1) KO 12-14-11

GP-31 26' (2)

Project Manager Review: Y Sayer Date: 12/14/11

CLIENT: Mundell

Sample Container Count

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COC PAGE 1 of 1
COC ID#

Project # 50555910

Sample Line Item	DG9H	AG1U	WGFU	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	VG9			Comments
1				4												
2																
3													3			
4				8									3			
5				4												
6																
7													9			
8													3			
9																
10																
11																
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

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

December 20, 2011

Ms. Sarah Webb
Mundell & Associates
110 South Downey Ave.
Indianapolis, IN 46219

RE: Project: Michigan Plaza M01046
Pace Project No.: 5055966

Dear Ms. Webb:
Enclosed are the analytical results for sample(s) received by the laboratory on December 15, 2011. 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@pacelabs.com
Project Manager

Illinois Certification #: 100418
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana/NELAC Certification #: 04076
Ohio VAP: CL0065
West Virginia Certification #: 330

Enclosures

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SAMPLE SUMMARY

Project: Michigan Plaza M01046
Pace Project No.: 5055966

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5055966001	**MMW-15D 13-15'**	Solid	12/14/11 13:30	12/15/11 11:05
5055966002	**SFD-2**	Solid	12/14/11 08:00	12/15/11 11:05
5055966003	**GP-29 16-18'**	Solid	12/14/11 08:55	12/15/11 11:05
5055966004	**MMW-15D 38.5-39'**	Solid	12/14/11 15:00	12/15/11 11:05
5055966005	**WFD-2**	Water	12/14/11 08:00	12/15/11 11:05
5055966006	**MMW-15D 28.5**	Water	12/14/11 15:30	12/15/11 11:05
5055966007	**MMW-15D 38.5**	Water	12/14/11 16:20	12/15/11 11:05
5055966008	**GP-29 40'**	Water	12/14/11 10:10	12/15/11 11:05
5055966009	**GP-29 30'**	Water	12/14/11 10:25	12/15/11 11:05

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SAMPLE ANALYTE COUNT

Project: Michigan Plaza M01046
Pace Project No.: 5055966

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5055966001	**MMW-15D 13-15'**	EPA 8260	SLB	73
		ASTM D2974-87	MLS	1
5055966002	**SFD-2**	EPA 8260	SLB	73
		ASTM D2974-87	MLS	1
5055966003	**GP-29 16-18'**	EPA 8260	SLB	73
		ASTM D2974-87	MLS	1
5055966004	**MMW-15D 38.5-39'**	EPA 8260	SLB	73
		ASTM D2974-87	MLS	1
5055966005	**WFD-2**	EPA 8260	ALA	73
5055966006	**MMW-15D 28.5**	EPA 8260	ALA	73
5055966007	**MMW-15D 38.5**	EPA 8260	ALA	73
5055966008	**GP-29 40'**	EPA 8260	ALA	73
5055966009	**GP-29 30'**	EPA 8260	ALA	73

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055966

Sample: MMW-15D 13-15' **Lab ID: 5055966001** Collected: 12/14/11 13:30 Received: 12/15/11 11:05 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	275	1		12/16/11 18:36	67-64-1	
Acrolein	ND	ug/kg	275	1		12/16/11 18:36	107-02-8	
Acrylonitrile	ND	ug/kg	275	1		12/16/11 18:36	107-13-1	
Benzene	ND	ug/kg	13.8	1		12/16/11 18:36	71-43-2	
Bromobenzene	ND	ug/kg	13.8	1		12/16/11 18:36	108-86-1	
Bromochloromethane	ND	ug/kg	13.8	1		12/16/11 18:36	74-97-5	
Bromodichloromethane	ND	ug/kg	13.8	1		12/16/11 18:36	75-27-4	
Bromoform	ND	ug/kg	13.8	1		12/16/11 18:36	75-25-2	
Bromomethane	ND	ug/kg	13.8	1		12/16/11 18:36	74-83-9	
2-Butanone (MEK)	ND	ug/kg	68.8	1		12/16/11 18:36	78-93-3	
n-Butylbenzene	ND	ug/kg	13.8	1		12/16/11 18:36	104-51-8	
sec-Butylbenzene	ND	ug/kg	13.8	1		12/16/11 18:36	135-98-8	
tert-Butylbenzene	ND	ug/kg	13.8	1		12/16/11 18:36	98-06-6	
Carbon disulfide	ND	ug/kg	27.5	1		12/16/11 18:36	75-15-0	
Carbon tetrachloride	ND	ug/kg	13.8	1		12/16/11 18:36	56-23-5	
Chlorobenzene	ND	ug/kg	13.8	1		12/16/11 18:36	108-90-7	
Chloroethane	ND	ug/kg	13.8	1		12/16/11 18:36	75-00-3	
Chloroform	ND	ug/kg	13.8	1		12/16/11 18:36	67-66-3	
Chloromethane	ND	ug/kg	13.8	1		12/16/11 18:36	74-87-3	
2-Chlorotoluene	ND	ug/kg	13.8	1		12/16/11 18:36	95-49-8	
4-Chlorotoluene	ND	ug/kg	13.8	1		12/16/11 18:36	106-43-4	
Dibromochloromethane	ND	ug/kg	13.8	1		12/16/11 18:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	13.8	1		12/16/11 18:36	106-93-4	
Dibromomethane	ND	ug/kg	13.8	1		12/16/11 18:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	13.8	1		12/16/11 18:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	13.8	1		12/16/11 18:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	13.8	1		12/16/11 18:36	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	275	1		12/16/11 18:36	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	13.8	1		12/16/11 18:36	75-71-8	
1,1-Dichloroethane	ND	ug/kg	13.8	1		12/16/11 18:36	75-34-3	
1,2-Dichloroethane	ND	ug/kg	13.8	1		12/16/11 18:36	107-06-2	
1,1-Dichloroethene	ND	ug/kg	13.8	1		12/16/11 18:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	13.8	1		12/16/11 18:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	13.8	1		12/16/11 18:36	156-60-5	
1,2-Dichloropropane	ND	ug/kg	13.8	1		12/16/11 18:36	78-87-5	
1,3-Dichloropropane	ND	ug/kg	13.8	1		12/16/11 18:36	142-28-9	
2,2-Dichloropropane	ND	ug/kg	13.8	1		12/16/11 18:36	594-20-7	
1,1-Dichloropropene	ND	ug/kg	13.8	1		12/16/11 18:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	13.8	1		12/16/11 18:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	13.8	1		12/16/11 18:36	10061-02-6	
Ethylbenzene	ND	ug/kg	13.8	1		12/16/11 18:36	100-41-4	
Ethyl methacrylate	ND	ug/kg	275	1		12/16/11 18:36	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	13.8	1		12/16/11 18:36	87-68-3	
n-Hexane	ND	ug/kg	13.8	1		12/16/11 18:36	110-54-3	
2-Hexanone	ND	ug/kg	275	1		12/16/11 18:36	591-78-6	
Iodomethane	ND	ug/kg	275	1		12/16/11 18:36	74-88-4	

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(317)875-5894

ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055966

Sample: MMW-15D 13-15' **Lab ID: 5055966001** Collected: 12/14/11 13:30 Received: 12/15/11 11:05 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	13.8	1		12/16/11 18:36	98-82-8	
p-Isopropyltoluene	ND	ug/kg	13.8	1		12/16/11 18:36	99-87-6	
Methylene Chloride	ND	ug/kg	55.0	1		12/16/11 18:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	68.8	1		12/16/11 18:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	13.8	1		12/16/11 18:36	1634-04-4	
Naphthalene	ND	ug/kg	13.8	1		12/16/11 18:36	91-20-3	
n-Propylbenzene	ND	ug/kg	13.8	1		12/16/11 18:36	103-65-1	
Styrene	ND	ug/kg	13.8	1		12/16/11 18:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	13.8	1		12/16/11 18:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	13.8	1		12/16/11 18:36	79-34-5	
Tetrachloroethene	ND	ug/kg	13.8	1		12/16/11 18:36	127-18-4	
Toluene	ND	ug/kg	13.8	1		12/16/11 18:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	13.8	1		12/16/11 18:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	13.8	1		12/16/11 18:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	13.8	1		12/16/11 18:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	13.8	1		12/16/11 18:36	79-00-5	
Trichloroethene	ND	ug/kg	13.8	1		12/16/11 18:36	79-01-6	
Trichlorofluoromethane	ND	ug/kg	13.8	1		12/16/11 18:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	13.8	1		12/16/11 18:36	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	13.8	1		12/16/11 18:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	13.8	1		12/16/11 18:36	108-67-8	
Vinyl acetate	ND	ug/kg	275	1		12/16/11 18:36	108-05-4	
Vinyl chloride	ND	ug/kg	13.8	1		12/16/11 18:36	75-01-4	
Xylene (Total)	ND	ug/kg	27.5	1		12/16/11 18:36	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	118	%.	71-125	1		12/16/11 18:36	1868-53-7	
Toluene-d8 (S)	95	%.	76-124	1		12/16/11 18:36	2037-26-5	
4-Bromofluorobenzene (S)	106	%.	67-134	1		12/16/11 18:36	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**3.3**	%	0.10	1		12/16/11 11:09		

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055966

Sample: SFD-2 **Lab ID: 5055966002** Collected: 12/14/11 08:00 Received: 12/15/11 11:05 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	**508**	ug/kg	96.4	1		12/17/11 04:35	67-64-1	
Acrolein	ND	ug/kg	96.4	1		12/17/11 04:35	107-02-8	
Acrylonitrile	ND	ug/kg	96.4	1		12/17/11 04:35	107-13-1	
Benzene	ND	ug/kg	4.8	1		12/17/11 04:35	71-43-2	
Bromobenzene	ND	ug/kg	4.8	1		12/17/11 04:35	108-86-1	
Bromochloromethane	ND	ug/kg	4.8	1		12/17/11 04:35	74-97-5	
Bromodichloromethane	ND	ug/kg	4.8	1		12/17/11 04:35	75-27-4	
Bromoform	ND	ug/kg	4.8	1		12/17/11 04:35	75-25-2	
Bromomethane	ND	ug/kg	4.8	1		12/17/11 04:35	74-83-9	
2-Butanone (MEK)	ND	ug/kg	24.1	1		12/17/11 04:35	78-93-3	
n-Butylbenzene	ND	ug/kg	4.8	1		12/17/11 04:35	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.8	1		12/17/11 04:35	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.8	1		12/17/11 04:35	98-06-6	
Carbon disulfide	ND	ug/kg	9.6	1		12/17/11 04:35	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.8	1		12/17/11 04:35	56-23-5	
Chlorobenzene	ND	ug/kg	4.8	1		12/17/11 04:35	108-90-7	
Chloroethane	ND	ug/kg	4.8	1		12/17/11 04:35	75-00-3	
Chloroform	ND	ug/kg	4.8	1		12/17/11 04:35	67-66-3	
Chloromethane	ND	ug/kg	4.8	1		12/17/11 04:35	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.8	1		12/17/11 04:35	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.8	1		12/17/11 04:35	106-43-4	
Dibromochloromethane	ND	ug/kg	4.8	1		12/17/11 04:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.8	1		12/17/11 04:35	106-93-4	
Dibromomethane	ND	ug/kg	4.8	1		12/17/11 04:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.8	1		12/17/11 04:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.8	1		12/17/11 04:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.8	1		12/17/11 04:35	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	96.4	1		12/17/11 04:35	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.8	1		12/17/11 04:35	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.8	1		12/17/11 04:35	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.8	1		12/17/11 04:35	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.8	1		12/17/11 04:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.8	1		12/17/11 04:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.8	1		12/17/11 04:35	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.8	1		12/17/11 04:35	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.8	1		12/17/11 04:35	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.8	1		12/17/11 04:35	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.8	1		12/17/11 04:35	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.8	1		12/17/11 04:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.8	1		12/17/11 04:35	10061-02-6	
Ethylbenzene	ND	ug/kg	4.8	1		12/17/11 04:35	100-41-4	
Ethyl methacrylate	ND	ug/kg	96.4	1		12/17/11 04:35	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.8	1		12/17/11 04:35	87-68-3	
n-Hexane	ND	ug/kg	4.8	1		12/17/11 04:35	110-54-3	
2-Hexanone	ND	ug/kg	96.4	1		12/17/11 04:35	591-78-6	
Iodomethane	ND	ug/kg	96.4	1		12/17/11 04:35	74-88-4	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055966

Sample: SFD-2 **Lab ID: 5055966002** Collected: 12/14/11 08:00 Received: 12/15/11 11:05 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	4.8	1		12/17/11 04:35	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.8	1		12/17/11 04:35	99-87-6	
Methylene Chloride	ND	ug/kg	19.3	1		12/17/11 04:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	24.1	1		12/17/11 04:35	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.8	1		12/17/11 04:35	1634-04-4	
Naphthalene	ND	ug/kg	4.8	1		12/17/11 04:35	91-20-3	
n-Propylbenzene	ND	ug/kg	4.8	1		12/17/11 04:35	103-65-1	
Styrene	ND	ug/kg	4.8	1		12/17/11 04:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.8	1		12/17/11 04:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.8	1		12/17/11 04:35	79-34-5	
Tetrachloroethene	ND	ug/kg	4.8	1		12/17/11 04:35	127-18-4	
Toluene	ND	ug/kg	4.8	1		12/17/11 04:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.8	1		12/17/11 04:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.8	1		12/17/11 04:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.8	1		12/17/11 04:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.8	1		12/17/11 04:35	79-00-5	
Trichloroethene	ND	ug/kg	4.8	1		12/17/11 04:35	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.8	1		12/17/11 04:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.8	1		12/17/11 04:35	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.8	1		12/17/11 04:35	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.8	1		12/17/11 04:35	108-67-8	
Vinyl acetate	ND	ug/kg	96.4	1		12/17/11 04:35	108-05-4	
Vinyl chloride	ND	ug/kg	4.8	1		12/17/11 04:35	75-01-4	
Xylene (Total)	ND	ug/kg	9.6	1		12/17/11 04:35	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	107	%.	71-125	1		12/17/11 04:35	1868-53-7	
Toluene-d8 (S)	99	%.	76-124	1		12/17/11 04:35	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	67-134	1		12/17/11 04:35	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**8.4**	%	0.10	1		12/16/11 11:09		

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055966

Sample: GP-29 16-18' **Lab ID: 5055966003** Collected: 12/14/11 08:55 Received: 12/15/11 11:05 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	103	1		12/17/11 05:13	67-64-1	
Acrolein	ND	ug/kg	103	1		12/17/11 05:13	107-02-8	
Acrylonitrile	ND	ug/kg	103	1		12/17/11 05:13	107-13-1	
Benzene	ND	ug/kg	5.2	1		12/17/11 05:13	71-43-2	
Bromobenzene	ND	ug/kg	5.2	1		12/17/11 05:13	108-86-1	
Bromochloromethane	ND	ug/kg	5.2	1		12/17/11 05:13	74-97-5	
Bromodichloromethane	ND	ug/kg	5.2	1		12/17/11 05:13	75-27-4	
Bromoform	ND	ug/kg	5.2	1		12/17/11 05:13	75-25-2	
Bromomethane	ND	ug/kg	5.2	1		12/17/11 05:13	74-83-9	
2-Butanone (MEK)	ND	ug/kg	25.8	1		12/17/11 05:13	78-93-3	
n-Butylbenzene	ND	ug/kg	5.2	1		12/17/11 05:13	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.2	1		12/17/11 05:13	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.2	1		12/17/11 05:13	98-06-6	
Carbon disulfide	ND	ug/kg	10.3	1		12/17/11 05:13	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.2	1		12/17/11 05:13	56-23-5	
Chlorobenzene	ND	ug/kg	5.2	1		12/17/11 05:13	108-90-7	
Chloroethane	ND	ug/kg	5.2	1		12/17/11 05:13	75-00-3	
Chloroform	ND	ug/kg	5.2	1		12/17/11 05:13	67-66-3	
Chloromethane	ND	ug/kg	5.2	1		12/17/11 05:13	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.2	1		12/17/11 05:13	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.2	1		12/17/11 05:13	106-43-4	
Dibromochloromethane	ND	ug/kg	5.2	1		12/17/11 05:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.2	1		12/17/11 05:13	106-93-4	
Dibromomethane	ND	ug/kg	5.2	1		12/17/11 05:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.2	1		12/17/11 05:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.2	1		12/17/11 05:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.2	1		12/17/11 05:13	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	103	1		12/17/11 05:13	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.2	1		12/17/11 05:13	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.2	1		12/17/11 05:13	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.2	1		12/17/11 05:13	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.2	1		12/17/11 05:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.2	1		12/17/11 05:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.2	1		12/17/11 05:13	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.2	1		12/17/11 05:13	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.2	1		12/17/11 05:13	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.2	1		12/17/11 05:13	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.2	1		12/17/11 05:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.2	1		12/17/11 05:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.2	1		12/17/11 05:13	10061-02-6	
Ethylbenzene	ND	ug/kg	5.2	1		12/17/11 05:13	100-41-4	
Ethyl methacrylate	ND	ug/kg	103	1		12/17/11 05:13	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.2	1		12/17/11 05:13	87-68-3	
n-Hexane	ND	ug/kg	5.2	1		12/17/11 05:13	110-54-3	
2-Hexanone	ND	ug/kg	103	1		12/17/11 05:13	591-78-6	
Iodomethane	ND	ug/kg	103	1		12/17/11 05:13	74-88-4	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055966

Sample: GP-29 16-18' **Lab ID: 5055966003** Collected: 12/14/11 08:55 Received: 12/15/11 11:05 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	5.2	1		12/17/11 05:13	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.2	1		12/17/11 05:13	99-87-6	
Methylene Chloride	ND	ug/kg	20.7	1		12/17/11 05:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	25.8	1		12/17/11 05:13	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.2	1		12/17/11 05:13	1634-04-4	
Naphthalene	ND	ug/kg	5.2	1		12/17/11 05:13	91-20-3	
n-Propylbenzene	ND	ug/kg	5.2	1		12/17/11 05:13	103-65-1	
Styrene	ND	ug/kg	5.2	1		12/17/11 05:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.2	1		12/17/11 05:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.2	1		12/17/11 05:13	79-34-5	
Tetrachloroethene	ND	ug/kg	5.2	1		12/17/11 05:13	127-18-4	
Toluene	ND	ug/kg	5.2	1		12/17/11 05:13	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.2	1		12/17/11 05:13	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.2	1		12/17/11 05:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.2	1		12/17/11 05:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.2	1		12/17/11 05:13	79-00-5	
Trichloroethene	ND	ug/kg	5.2	1		12/17/11 05:13	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.2	1		12/17/11 05:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.2	1		12/17/11 05:13	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.2	1		12/17/11 05:13	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.2	1		12/17/11 05:13	108-67-8	
Vinyl acetate	ND	ug/kg	103	1		12/17/11 05:13	108-05-4	
Vinyl chloride	ND	ug/kg	5.2	1		12/17/11 05:13	75-01-4	
Xylene (Total)	ND	ug/kg	10.3	1		12/17/11 05:13	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%.	71-125	1		12/17/11 05:13	1868-53-7	
Toluene-d8 (S)	99	%.	76-124	1		12/17/11 05:13	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	67-134	1		12/17/11 05:13	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**10.6**	%	0.10	1		12/16/11 11:09		

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055966

Sample: MMW-15D 38.5-39' **Lab ID: 5055966004** Collected: 12/14/11 15:00 Received: 12/15/11 11:05 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	74.7	1		12/17/11 05:50	67-64-1	
Acrolein	ND	ug/kg	74.7	1		12/17/11 05:50	107-02-8	
Acrylonitrile	ND	ug/kg	74.7	1		12/17/11 05:50	107-13-1	
Benzene	ND	ug/kg	3.7	1		12/17/11 05:50	71-43-2	
Bromobenzene	ND	ug/kg	3.7	1		12/17/11 05:50	108-86-1	
Bromochloromethane	ND	ug/kg	3.7	1		12/17/11 05:50	74-97-5	
Bromodichloromethane	ND	ug/kg	3.7	1		12/17/11 05:50	75-27-4	
Bromoform	ND	ug/kg	3.7	1		12/17/11 05:50	75-25-2	
Bromomethane	ND	ug/kg	3.7	1		12/17/11 05:50	74-83-9	
2-Butanone (MEK)	ND	ug/kg	18.7	1		12/17/11 05:50	78-93-3	
n-Butylbenzene	ND	ug/kg	3.7	1		12/17/11 05:50	104-51-8	
sec-Butylbenzene	ND	ug/kg	3.7	1		12/17/11 05:50	135-98-8	
tert-Butylbenzene	ND	ug/kg	3.7	1		12/17/11 05:50	98-06-6	
Carbon disulfide	ND	ug/kg	7.5	1		12/17/11 05:50	75-15-0	
Carbon tetrachloride	ND	ug/kg	3.7	1		12/17/11 05:50	56-23-5	
Chlorobenzene	ND	ug/kg	3.7	1		12/17/11 05:50	108-90-7	
Chloroethane	ND	ug/kg	3.7	1		12/17/11 05:50	75-00-3	
Chloroform	ND	ug/kg	3.7	1		12/17/11 05:50	67-66-3	
Chloromethane	ND	ug/kg	3.7	1		12/17/11 05:50	74-87-3	
2-Chlorotoluene	ND	ug/kg	3.7	1		12/17/11 05:50	95-49-8	
4-Chlorotoluene	ND	ug/kg	3.7	1		12/17/11 05:50	106-43-4	
Dibromochloromethane	ND	ug/kg	3.7	1		12/17/11 05:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	3.7	1		12/17/11 05:50	106-93-4	
Dibromomethane	ND	ug/kg	3.7	1		12/17/11 05:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	3.7	1		12/17/11 05:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.7	1		12/17/11 05:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.7	1		12/17/11 05:50	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	74.7	1		12/17/11 05:50	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	3.7	1		12/17/11 05:50	75-71-8	
1,1-Dichloroethane	ND	ug/kg	3.7	1		12/17/11 05:50	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.7	1		12/17/11 05:50	107-06-2	
1,1-Dichloroethene	ND	ug/kg	3.7	1		12/17/11 05:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	3.7	1		12/17/11 05:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.7	1		12/17/11 05:50	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.7	1		12/17/11 05:50	78-87-5	
1,3-Dichloropropane	ND	ug/kg	3.7	1		12/17/11 05:50	142-28-9	
2,2-Dichloropropane	ND	ug/kg	3.7	1		12/17/11 05:50	594-20-7	
1,1-Dichloropropene	ND	ug/kg	3.7	1		12/17/11 05:50	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	3.7	1		12/17/11 05:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.7	1		12/17/11 05:50	10061-02-6	
Ethylbenzene	ND	ug/kg	3.7	1		12/17/11 05:50	100-41-4	
Ethyl methacrylate	ND	ug/kg	74.7	1		12/17/11 05:50	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	3.7	1		12/17/11 05:50	87-68-3	
n-Hexane	ND	ug/kg	3.7	1		12/17/11 05:50	110-54-3	
2-Hexanone	ND	ug/kg	74.7	1		12/17/11 05:50	591-78-6	
Iodomethane	ND	ug/kg	74.7	1		12/17/11 05:50	74-88-4	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055966

Sample: MMW-15D 38.5-39' **Lab ID: 5055966004** Collected: 12/14/11 15:00 Received: 12/15/11 11:05 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	3.7	1		12/17/11 05:50	98-82-8	
p-Isopropyltoluene	ND	ug/kg	3.7	1		12/17/11 05:50	99-87-6	
Methylene Chloride	ND	ug/kg	14.9	1		12/17/11 05:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	18.7	1		12/17/11 05:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	3.7	1		12/17/11 05:50	1634-04-4	
Naphthalene	ND	ug/kg	3.7	1		12/17/11 05:50	91-20-3	
n-Propylbenzene	ND	ug/kg	3.7	1		12/17/11 05:50	103-65-1	
Styrene	ND	ug/kg	3.7	1		12/17/11 05:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	3.7	1		12/17/11 05:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.7	1		12/17/11 05:50	79-34-5	
Tetrachloroethene	ND	ug/kg	3.7	1		12/17/11 05:50	127-18-4	
Toluene	ND	ug/kg	3.7	1		12/17/11 05:50	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	3.7	1		12/17/11 05:50	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	3.7	1		12/17/11 05:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	3.7	1		12/17/11 05:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.7	1		12/17/11 05:50	79-00-5	
Trichloroethene	ND	ug/kg	3.7	1		12/17/11 05:50	79-01-6	
Trichlorofluoromethane	ND	ug/kg	3.7	1		12/17/11 05:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	3.7	1		12/17/11 05:50	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	3.7	1		12/17/11 05:50	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	3.7	1		12/17/11 05:50	108-67-8	
Vinyl acetate	ND	ug/kg	74.7	1		12/17/11 05:50	108-05-4	
Vinyl chloride	ND	ug/kg	3.7	1		12/17/11 05:50	75-01-4	
Xylene (Total)	ND	ug/kg	7.5	1		12/17/11 05:50	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%.	71-125	1		12/17/11 05:50	1868-53-7	
Toluene-d8 (S)	100	%.	76-124	1		12/17/11 05:50	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	67-134	1		12/17/11 05:50	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**8.1**	%	0.10	1		12/16/11 11:09		

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055966

Sample: WFD-2 **Lab ID: 5055966005** Collected: 12/14/11 08:00 Received: 12/15/11 11:05 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		12/17/11 13:07	67-64-1	
Acrolein	ND	ug/L	50.0	1		12/17/11 13:07	107-02-8	
Acrylonitrile	ND	ug/L	100	1		12/17/11 13:07	107-13-1	
Benzene	ND	ug/L	5.0	1		12/17/11 13:07	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		12/17/11 13:07	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		12/17/11 13:07	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		12/17/11 13:07	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/17/11 13:07	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/17/11 13:07	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		12/17/11 13:07	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		12/17/11 13:07	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		12/17/11 13:07	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		12/17/11 13:07	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		12/17/11 13:07	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/17/11 13:07	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/17/11 13:07	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/17/11 13:07	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/17/11 13:07	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/17/11 13:07	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		12/17/11 13:07	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		12/17/11 13:07	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		12/17/11 13:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/17/11 13:07	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		12/17/11 13:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/17/11 13:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/17/11 13:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/17/11 13:07	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		12/17/11 13:07	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		12/17/11 13:07	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/17/11 13:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/17/11 13:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/17/11 13:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		12/17/11 13:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/17/11 13:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/17/11 13:07	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		12/17/11 13:07	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		12/17/11 13:07	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		12/17/11 13:07	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/17/11 13:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/17/11 13:07	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/17/11 13:07	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		12/17/11 13:07	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/17/11 13:07	87-68-3	
n-Hexane	ND	ug/L	5.0	1		12/17/11 13:07	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		12/17/11 13:07	591-78-6	
Iodomethane	ND	ug/L	10.0	1		12/17/11 13:07	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		12/17/11 13:07	98-82-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055966

Sample: WFD-2 **Lab ID: 5055966005** Collected: 12/14/11 08:00 Received: 12/15/11 11:05 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		12/17/11 13:07	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		12/17/11 13:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		12/17/11 13:07	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		12/17/11 13:07	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/17/11 13:07	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		12/17/11 13:07	103-65-1	
Styrene	ND	ug/L	5.0	1		12/17/11 13:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		12/17/11 13:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/17/11 13:07	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/17/11 13:07	127-18-4	
Toluene	ND	ug/L	5.0	1		12/17/11 13:07	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		12/17/11 13:07	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		12/17/11 13:07	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/17/11 13:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/17/11 13:07	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/17/11 13:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/17/11 13:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		12/17/11 13:07	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		12/17/11 13:07	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		12/17/11 13:07	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		12/17/11 13:07	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		12/17/11 13:07	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/17/11 13:07	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	83-123	1		12/17/11 13:07	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	72-125	1		12/17/11 13:07	460-00-4	
Toluene-d8 (S)	100	%.	81-114	1		12/17/11 13:07	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055966

Sample: MMW-15D 28.5 **Lab ID: 5055966006** Collected: 12/14/11 15:30 Received: 12/15/11 11:05 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		12/17/11 13:39	67-64-1	
Acrolein	ND	ug/L	50.0	1		12/17/11 13:39	107-02-8	
Acrylonitrile	ND	ug/L	100	1		12/17/11 13:39	107-13-1	
Benzene	ND	ug/L	5.0	1		12/17/11 13:39	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		12/17/11 13:39	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		12/17/11 13:39	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		12/17/11 13:39	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/17/11 13:39	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/17/11 13:39	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		12/17/11 13:39	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		12/17/11 13:39	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		12/17/11 13:39	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		12/17/11 13:39	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		12/17/11 13:39	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/17/11 13:39	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/17/11 13:39	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/17/11 13:39	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/17/11 13:39	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/17/11 13:39	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		12/17/11 13:39	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		12/17/11 13:39	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		12/17/11 13:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/17/11 13:39	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		12/17/11 13:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/17/11 13:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/17/11 13:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/17/11 13:39	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		12/17/11 13:39	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		12/17/11 13:39	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/17/11 13:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/17/11 13:39	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/17/11 13:39	75-35-4	
cis-1,2-Dichloroethene	**6.5**	ug/L	5.0	1		12/17/11 13:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/17/11 13:39	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/17/11 13:39	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		12/17/11 13:39	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		12/17/11 13:39	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		12/17/11 13:39	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/17/11 13:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/17/11 13:39	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/17/11 13:39	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		12/17/11 13:39	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/17/11 13:39	87-68-3	
n-Hexane	ND	ug/L	5.0	1		12/17/11 13:39	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		12/17/11 13:39	591-78-6	
Iodomethane	ND	ug/L	10.0	1		12/17/11 13:39	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		12/17/11 13:39	98-82-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055966

Sample: MMW-15D 28.5 **Lab ID: 5055966006** Collected: 12/14/11 15:30 Received: 12/15/11 11:05 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		12/17/11 13:39	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		12/17/11 13:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		12/17/11 13:39	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		12/17/11 13:39	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/17/11 13:39	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		12/17/11 13:39	103-65-1	
Styrene	ND	ug/L	5.0	1		12/17/11 13:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		12/17/11 13:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/17/11 13:39	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/17/11 13:39	127-18-4	
Toluene	ND	ug/L	5.0	1		12/17/11 13:39	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		12/17/11 13:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		12/17/11 13:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/17/11 13:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/17/11 13:39	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/17/11 13:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/17/11 13:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		12/17/11 13:39	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		12/17/11 13:39	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		12/17/11 13:39	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		12/17/11 13:39	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		12/17/11 13:39	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/17/11 13:39	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98	%.	83-123	1		12/17/11 13:39	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	72-125	1		12/17/11 13:39	460-00-4	
Toluene-d8 (S)	100	%.	81-114	1		12/17/11 13:39	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055966

Sample: MMW-15D 38.5 **Lab ID: 5055966007** Collected: 12/14/11 16:20 Received: 12/15/11 11:05 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		12/17/11 14:11	67-64-1	
Acrolein	ND	ug/L	50.0	1		12/17/11 14:11	107-02-8	
Acrylonitrile	ND	ug/L	100	1		12/17/11 14:11	107-13-1	
Benzene	ND	ug/L	5.0	1		12/17/11 14:11	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		12/17/11 14:11	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		12/17/11 14:11	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		12/17/11 14:11	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/17/11 14:11	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/17/11 14:11	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		12/17/11 14:11	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		12/17/11 14:11	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		12/17/11 14:11	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		12/17/11 14:11	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		12/17/11 14:11	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/17/11 14:11	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/17/11 14:11	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/17/11 14:11	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/17/11 14:11	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/17/11 14:11	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		12/17/11 14:11	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		12/17/11 14:11	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		12/17/11 14:11	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/17/11 14:11	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		12/17/11 14:11	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/17/11 14:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/17/11 14:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/17/11 14:11	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		12/17/11 14:11	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		12/17/11 14:11	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/17/11 14:11	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/17/11 14:11	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/17/11 14:11	75-35-4	
cis-1,2-Dichloroethene	**6.2**	ug/L	5.0	1		12/17/11 14:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/17/11 14:11	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/17/11 14:11	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		12/17/11 14:11	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		12/17/11 14:11	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		12/17/11 14:11	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/17/11 14:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/17/11 14:11	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/17/11 14:11	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		12/17/11 14:11	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/17/11 14:11	87-68-3	
n-Hexane	ND	ug/L	5.0	1		12/17/11 14:11	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		12/17/11 14:11	591-78-6	
Iodomethane	ND	ug/L	10.0	1		12/17/11 14:11	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		12/17/11 14:11	98-82-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055966

Sample: MMW-15D 38.5 **Lab ID: 5055966007** Collected: 12/14/11 16:20 Received: 12/15/11 11:05 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		12/17/11 14:11	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		12/17/11 14:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		12/17/11 14:11	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		12/17/11 14:11	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/17/11 14:11	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		12/17/11 14:11	103-65-1	
Styrene	ND	ug/L	5.0	1		12/17/11 14:11	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		12/17/11 14:11	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/17/11 14:11	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/17/11 14:11	127-18-4	
Toluene	ND	ug/L	5.0	1		12/17/11 14:11	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		12/17/11 14:11	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		12/17/11 14:11	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/17/11 14:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/17/11 14:11	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/17/11 14:11	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/17/11 14:11	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		12/17/11 14:11	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		12/17/11 14:11	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		12/17/11 14:11	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		12/17/11 14:11	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		12/17/11 14:11	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/17/11 14:11	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%.	83-123	1		12/17/11 14:11	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	72-125	1		12/17/11 14:11	460-00-4	
Toluene-d8 (S)	99	%.	81-114	1		12/17/11 14:11	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055966

Sample: GP-29 40' **Lab ID: 5055966008** Collected: 12/14/11 10:10 Received: 12/15/11 11:05 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		12/17/11 14:43	67-64-1	
Acrolein	ND	ug/L	50.0	1		12/17/11 14:43	107-02-8	
Acrylonitrile	ND	ug/L	100	1		12/17/11 14:43	107-13-1	
Benzene	ND	ug/L	5.0	1		12/17/11 14:43	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		12/17/11 14:43	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		12/17/11 14:43	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		12/17/11 14:43	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/17/11 14:43	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/17/11 14:43	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		12/17/11 14:43	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		12/17/11 14:43	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		12/17/11 14:43	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		12/17/11 14:43	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		12/17/11 14:43	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/17/11 14:43	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/17/11 14:43	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/17/11 14:43	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/17/11 14:43	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/17/11 14:43	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		12/17/11 14:43	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		12/17/11 14:43	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		12/17/11 14:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/17/11 14:43	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		12/17/11 14:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/17/11 14:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/17/11 14:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/17/11 14:43	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		12/17/11 14:43	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		12/17/11 14:43	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/17/11 14:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/17/11 14:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/17/11 14:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		12/17/11 14:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/17/11 14:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/17/11 14:43	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		12/17/11 14:43	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		12/17/11 14:43	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		12/17/11 14:43	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/17/11 14:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/17/11 14:43	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/17/11 14:43	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		12/17/11 14:43	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/17/11 14:43	87-68-3	
n-Hexane	ND	ug/L	5.0	1		12/17/11 14:43	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		12/17/11 14:43	591-78-6	
Iodomethane	ND	ug/L	10.0	1		12/17/11 14:43	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		12/17/11 14:43	98-82-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055966

Sample: GP-29 40' **Lab ID: 5055966008** Collected: 12/14/11 10:10 Received: 12/15/11 11:05 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		12/17/11 14:43	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		12/17/11 14:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		12/17/11 14:43	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		12/17/11 14:43	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/17/11 14:43	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		12/17/11 14:43	103-65-1	
Styrene	ND	ug/L	5.0	1		12/17/11 14:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		12/17/11 14:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/17/11 14:43	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/17/11 14:43	127-18-4	
Toluene	ND	ug/L	5.0	1		12/17/11 14:43	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		12/17/11 14:43	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		12/17/11 14:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/17/11 14:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/17/11 14:43	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/17/11 14:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/17/11 14:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		12/17/11 14:43	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		12/17/11 14:43	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		12/17/11 14:43	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		12/17/11 14:43	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		12/17/11 14:43	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/17/11 14:43	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	93	%.	83-123	1		12/17/11 14:43	1868-53-7	
4-Bromofluorobenzene (S)	99	%.	72-125	1		12/17/11 14:43	460-00-4	
Toluene-d8 (S)	100	%.	81-114	1		12/17/11 14:43	2037-26-5	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055966

Sample: GP-29 30' **Lab ID: 5055966009** Collected: 12/14/11 10:25 Received: 12/15/11 11:05 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		12/17/11 15:15	67-64-1	
Acrolein	ND	ug/L	50.0	1		12/17/11 15:15	107-02-8	
Acrylonitrile	ND	ug/L	100	1		12/17/11 15:15	107-13-1	
Benzene	ND	ug/L	5.0	1		12/17/11 15:15	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		12/17/11 15:15	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		12/17/11 15:15	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		12/17/11 15:15	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/17/11 15:15	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/17/11 15:15	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		12/17/11 15:15	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		12/17/11 15:15	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		12/17/11 15:15	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		12/17/11 15:15	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		12/17/11 15:15	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/17/11 15:15	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/17/11 15:15	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/17/11 15:15	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/17/11 15:15	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/17/11 15:15	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		12/17/11 15:15	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		12/17/11 15:15	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		12/17/11 15:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/17/11 15:15	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		12/17/11 15:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/17/11 15:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/17/11 15:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/17/11 15:15	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		12/17/11 15:15	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		12/17/11 15:15	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/17/11 15:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/17/11 15:15	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/17/11 15:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		12/17/11 15:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/17/11 15:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/17/11 15:15	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		12/17/11 15:15	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		12/17/11 15:15	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		12/17/11 15:15	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/17/11 15:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/17/11 15:15	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/17/11 15:15	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		12/17/11 15:15	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		12/17/11 15:15	87-68-3	
n-Hexane	ND	ug/L	5.0	1		12/17/11 15:15	110-54-3	N2
2-Hexanone	ND	ug/L	25.0	1		12/17/11 15:15	591-78-6	
Iodomethane	ND	ug/L	10.0	1		12/17/11 15:15	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		12/17/11 15:15	98-82-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza M01046
Pace Project No.: 5055966

Sample: GP-29 30' **Lab ID: 5055966009** Collected: 12/14/11 10:25 Received: 12/15/11 11:05 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		12/17/11 15:15	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		12/17/11 15:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		12/17/11 15:15	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		12/17/11 15:15	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/17/11 15:15	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		12/17/11 15:15	103-65-1	
Styrene	ND	ug/L	5.0	1		12/17/11 15:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		12/17/11 15:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/17/11 15:15	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/17/11 15:15	127-18-4	
Toluene	ND	ug/L	5.0	1		12/17/11 15:15	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		12/17/11 15:15	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		12/17/11 15:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/17/11 15:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/17/11 15:15	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/17/11 15:15	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/17/11 15:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		12/17/11 15:15	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		12/17/11 15:15	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		12/17/11 15:15	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		12/17/11 15:15	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		12/17/11 15:15	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/17/11 15:15	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%.	83-123	1		12/17/11 15:15	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	72-125	1		12/17/11 15:15	460-00-4	
Toluene-d8 (S)	101	%.	81-114	1		12/17/11 15:15	2037-26-5	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055966

QC Batch: MSV/38172 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5055966005, 5055966006, 5055966007, 5055966008, 5055966009

METHOD BLANK: 662867 Matrix: Water
Associated Lab Samples: 5055966005, 5055966006, 5055966007, 5055966008, 5055966009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	12/17/11 05:37	
1,1,1-Trichloroethane	ug/L	ND	5.0	12/17/11 05:37	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	12/17/11 05:37	
1,1,2-Trichloroethane	ug/L	ND	5.0	12/17/11 05:37	
1,1-Dichloroethane	ug/L	ND	5.0	12/17/11 05:37	
1,1-Dichloroethene	ug/L	ND	5.0	12/17/11 05:37	
1,1-Dichloropropene	ug/L	ND	5.0	12/17/11 05:37	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	12/17/11 05:37	
1,2,3-Trichloropropane	ug/L	ND	5.0	12/17/11 05:37	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	12/17/11 05:37	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	12/17/11 05:37	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	12/17/11 05:37	
1,2-Dichlorobenzene	ug/L	ND	5.0	12/17/11 05:37	
1,2-Dichloroethane	ug/L	ND	5.0	12/17/11 05:37	
1,2-Dichloropropane	ug/L	ND	5.0	12/17/11 05:37	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	12/17/11 05:37	
1,3-Dichlorobenzene	ug/L	ND	5.0	12/17/11 05:37	
1,3-Dichloropropane	ug/L	ND	5.0	12/17/11 05:37	
1,4-Dichlorobenzene	ug/L	ND	5.0	12/17/11 05:37	
2,2-Dichloropropane	ug/L	ND	5.0	12/17/11 05:37	
2-Butanone (MEK)	ug/L	ND	25.0	12/17/11 05:37	
2-Chlorotoluene	ug/L	ND	5.0	12/17/11 05:37	
2-Hexanone	ug/L	ND	25.0	12/17/11 05:37	
4-Chlorotoluene	ug/L	ND	5.0	12/17/11 05:37	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	12/17/11 05:37	
Acetone	ug/L	ND	100	12/17/11 05:37	
Acrolein	ug/L	ND	50.0	12/17/11 05:37	
Acrylonitrile	ug/L	ND	100	12/17/11 05:37	
Benzene	ug/L	ND	5.0	12/17/11 05:37	
Bromobenzene	ug/L	ND	5.0	12/17/11 05:37	
Bromochloromethane	ug/L	ND	5.0	12/17/11 05:37	
Bromodichloromethane	ug/L	ND	5.0	12/17/11 05:37	
Bromoform	ug/L	ND	5.0	12/17/11 05:37	
Bromomethane	ug/L	ND	5.0	12/17/11 05:37	
Carbon disulfide	ug/L	ND	10.0	12/17/11 05:37	
Carbon tetrachloride	ug/L	ND	5.0	12/17/11 05:37	
Chlorobenzene	ug/L	ND	5.0	12/17/11 05:37	
Chloroethane	ug/L	ND	5.0	12/17/11 05:37	
Chloroform	ug/L	ND	5.0	12/17/11 05:37	
Chloromethane	ug/L	ND	5.0	12/17/11 05:37	
cis-1,2-Dichloroethene	ug/L	ND	5.0	12/17/11 05:37	
cis-1,3-Dichloropropene	ug/L	ND	5.0	12/17/11 05:37	
Dibromochloromethane	ug/L	ND	5.0	12/17/11 05:37	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055966

METHOD BLANK: 662867 Matrix: Water

Associated Lab Samples: 5055966005, 5055966006, 5055966007, 5055966008, 5055966009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	5.0	12/17/11 05:37	
Dichlorodifluoromethane	ug/L	ND	5.0	12/17/11 05:37	
Ethyl methacrylate	ug/L	ND	100	12/17/11 05:37	
Ethylbenzene	ug/L	ND	5.0	12/17/11 05:37	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	12/17/11 05:37	
Iodomethane	ug/L	ND	10.0	12/17/11 05:37	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	12/17/11 05:37	
Methyl-tert-butyl ether	ug/L	ND	4.0	12/17/11 05:37	
Methylene Chloride	ug/L	ND	5.0	12/17/11 05:37	
n-Butylbenzene	ug/L	ND	5.0	12/17/11 05:37	
n-Hexane	ug/L	ND	5.0	12/17/11 05:37	N2
n-Propylbenzene	ug/L	ND	5.0	12/17/11 05:37	
Naphthalene	ug/L	ND	5.0	12/17/11 05:37	
p-Isopropyltoluene	ug/L	ND	5.0	12/17/11 05:37	
sec-Butylbenzene	ug/L	ND	5.0	12/17/11 05:37	
Styrene	ug/L	ND	5.0	12/17/11 05:37	
tert-Butylbenzene	ug/L	ND	5.0	12/17/11 05:37	
Tetrachloroethene	ug/L	ND	5.0	12/17/11 05:37	
Toluene	ug/L	ND	5.0	12/17/11 05:37	
trans-1,2-Dichloroethene	ug/L	ND	5.0	12/17/11 05:37	
trans-1,3-Dichloropropene	ug/L	ND	5.0	12/17/11 05:37	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	12/17/11 05:37	
Trichloroethene	ug/L	ND	5.0	12/17/11 05:37	
Trichlorofluoromethane	ug/L	ND	5.0	12/17/11 05:37	
Vinyl acetate	ug/L	ND	50.0	12/17/11 05:37	
Vinyl chloride	ug/L	ND	2.0	12/17/11 05:37	
Xylene (Total)	ug/L	ND	10.0	12/17/11 05:37	
4-Bromofluorobenzene (S)	%.	99	72-125	12/17/11 05:37	
Dibromofluoromethane (S)	%.	96	83-123	12/17/11 05:37	
Toluene-d8 (S)	%.	100	81-114	12/17/11 05:37	

LABORATORY CONTROL SAMPLE: 662868

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	46.3	93	69-122	
1,1,1-Trichloroethane	ug/L	50	50.8	102	69-126	
1,1,2,2-Tetrachloroethane	ug/L	50	55.2	110	68-134	
1,1,2-Trichloroethane	ug/L	50	54.5	109	77-129	
1,1-Dichloroethane	ug/L	50	53.3	107	70-127	
1,1-Dichloroethene	ug/L	50	53.2	106	75-145	
1,1-Dichloropropene	ug/L	50	51.5	103	75-126	
1,2,3-Trichlorobenzene	ug/L	50	53.0	106	63-130	
1,2,3-Trichloropropane	ug/L	50	71.0	142	45-121	L3
1,2,4-Trichlorobenzene	ug/L	50	50.3	101	64-122	
1,2,4-Trimethylbenzene	ug/L	50	52.5	105	68-129	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055966

LABORATORY CONTROL SAMPLE: 662868

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	50	51.4	103	77-123	
1,2-Dichlorobenzene	ug/L	50	53.6	107	74-123	
1,2-Dichloroethane	ug/L	50	52.2	104	71-127	
1,2-Dichloropropane	ug/L	50	52.4	105	75-126	
1,3,5-Trimethylbenzene	ug/L	50	52.2	104	69-129	
1,3-Dichlorobenzene	ug/L	50	51.4	103	76-123	
1,3-Dichloropropane	ug/L	50	52.1	104	77-126	
1,4-Dichlorobenzene	ug/L	50	49.9	100	77-121	
2,2-Dichloropropane	ug/L	50	50.1	100	45-138	
2-Butanone (MEK)	ug/L	250	228	91	42-177	
2-Chlorotoluene	ug/L	50	50.8	102	74-129	
2-Hexanone	ug/L	250	259	104	57-162	
4-Chlorotoluene	ug/L	50	53.0	106	70-125	
4-Methyl-2-pentanone (MIBK)	ug/L	250	268	107	64-135	
Acetone	ug/L	250	175	70	10-200	
Acrolein	ug/L	1000	1800	180	10-200	
Acrylonitrile	ug/L	1000	1080	108	59-144	
Benzene	ug/L	50	50.1	100	76-123	
Bromobenzene	ug/L	50	54.1	108	67-130	
Bromochloromethane	ug/L	50	51.3	103	58-153	
Bromodichloromethane	ug/L	50	44.7	89	71-124	
Bromoform	ug/L	50	40.8	82	64-116	
Bromomethane	ug/L	50	58.9	118	23-197	
Carbon disulfide	ug/L	100	108	108	55-146	
Carbon tetrachloride	ug/L	50	43.4	87	65-125	
Chlorobenzene	ug/L	50	54.5	109	78-120	
Chloroethane	ug/L	50	57.8	116	56-163	
Chloroform	ug/L	50	50.8	102	73-122	
Chloromethane	ug/L	50	60.2	120	46-146	
cis-1,2-Dichloroethene	ug/L	50	51.1	102	79-129	
cis-1,3-Dichloropropene	ug/L	50	43.6	87	66-123	
Dibromochloromethane	ug/L	50	41.8	84	70-123	
Dibromomethane	ug/L	50	51.5	103	73-123	
Dichlorodifluoromethane	ug/L	50	48.7	97	19-200	
Ethyl methacrylate	ug/L	200	211	105	70-127	
Ethylbenzene	ug/L	50	51.5	103	75-120	
Hexachloro-1,3-butadiene	ug/L	50	51.4	103	64-131	
Iodomethane	ug/L	100	83.9	84	16-181	
Isopropylbenzene (Cumene)	ug/L	50	54.9	110	73-123	
Methyl-tert-butyl ether	ug/L	100	111	111	66-128	
Methylene Chloride	ug/L	50	53.4	107	61-138	
n-Butylbenzene	ug/L	50	49.6	99	69-130	
n-Hexane	ug/L	50	45.7	91	67-142	N2
n-Propylbenzene	ug/L	50	50.8	102	71-132	
Naphthalene	ug/L	50	56.4	113	62-130	
p-Isopropyltoluene	ug/L	50	52.7	105	71-126	
sec-Butylbenzene	ug/L	50	53.2	106	69-130	
Styrene	ug/L	50	54.4	109	75-125	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055966

LABORATORY CONTROL SAMPLE: 662868

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	43.8	88	49-114	
Tetrachloroethene	ug/L	50	53.9	108	57-125	
Toluene	ug/L	50	49.1	98	72-124	
trans-1,2-Dichloroethene	ug/L	50	50.9	102	71-145	
trans-1,3-Dichloropropene	ug/L	50	43.6	87	58-118	
trans-1,4-Dichloro-2-butene	ug/L	200	173	87	50-121	
Trichloroethene	ug/L	50	50.3	101	77-122	
Trichlorofluoromethane	ug/L	50	59.3	119	56-159	
Vinyl acetate	ug/L	200	197	98	27-119	
Vinyl chloride	ug/L	50	56.4	113	61-146	
Xylene (Total)	ug/L	150	154	103	72-126	
4-Bromofluorobenzene (S)	%.			100	72-125	
Dibromofluoromethane (S)	%.			99	83-123	
Toluene-d8 (S)	%.			99	81-114	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055966

QC Batch: MSV/38141
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 5055966001

METHOD BLANK: 662118
Matrix: Solid
Associated Lab Samples: 5055966001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	12/16/11 09:14	
1,1,1-Trichloroethane	ug/kg	ND	5.0	12/16/11 09:14	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	12/16/11 09:14	
1,1,2-Trichloroethane	ug/kg	ND	5.0	12/16/11 09:14	
1,1-Dichloroethane	ug/kg	ND	5.0	12/16/11 09:14	
1,1-Dichloroethene	ug/kg	ND	5.0	12/16/11 09:14	
1,1-Dichloropropene	ug/kg	ND	5.0	12/16/11 09:14	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	12/16/11 09:14	
1,2,3-Trichloropropane	ug/kg	ND	5.0	12/16/11 09:14	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	12/16/11 09:14	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	12/16/11 09:14	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	12/16/11 09:14	
1,2-Dichlorobenzene	ug/kg	ND	5.0	12/16/11 09:14	
1,2-Dichloroethane	ug/kg	ND	5.0	12/16/11 09:14	
1,2-Dichloropropane	ug/kg	ND	5.0	12/16/11 09:14	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	12/16/11 09:14	
1,3-Dichlorobenzene	ug/kg	ND	5.0	12/16/11 09:14	
1,3-Dichloropropane	ug/kg	ND	5.0	12/16/11 09:14	
1,4-Dichlorobenzene	ug/kg	ND	5.0	12/16/11 09:14	
2,2-Dichloropropane	ug/kg	ND	5.0	12/16/11 09:14	
2-Butanone (MEK)	ug/kg	ND	25.0	12/16/11 09:14	
2-Chlorotoluene	ug/kg	ND	5.0	12/16/11 09:14	
2-Hexanone	ug/kg	ND	100	12/16/11 09:14	
4-Chlorotoluene	ug/kg	ND	5.0	12/16/11 09:14	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	12/16/11 09:14	
Acetone	ug/kg	ND	100	12/16/11 09:14	
Acrolein	ug/kg	ND	100	12/16/11 09:14	
Acrylonitrile	ug/kg	ND	100	12/16/11 09:14	
Benzene	ug/kg	ND	5.0	12/16/11 09:14	
Bromobenzene	ug/kg	ND	5.0	12/16/11 09:14	
Bromochloromethane	ug/kg	ND	5.0	12/16/11 09:14	
Bromodichloromethane	ug/kg	ND	5.0	12/16/11 09:14	
Bromoform	ug/kg	ND	5.0	12/16/11 09:14	
Bromomethane	ug/kg	ND	5.0	12/16/11 09:14	
Carbon disulfide	ug/kg	ND	10.0	12/16/11 09:14	
Carbon tetrachloride	ug/kg	ND	5.0	12/16/11 09:14	
Chlorobenzene	ug/kg	ND	5.0	12/16/11 09:14	
Chloroethane	ug/kg	ND	5.0	12/16/11 09:14	
Chloroform	ug/kg	ND	5.0	12/16/11 09:14	
Chloromethane	ug/kg	ND	5.0	12/16/11 09:14	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	12/16/11 09:14	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	12/16/11 09:14	
Dibromochloromethane	ug/kg	ND	5.0	12/16/11 09:14	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055966

METHOD BLANK: 662118 Matrix: Solid

Associated Lab Samples: 5055966001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	5.0	12/16/11 09:14	
Dichlorodifluoromethane	ug/kg	ND	5.0	12/16/11 09:14	
Ethyl methacrylate	ug/kg	ND	100	12/16/11 09:14	
Ethylbenzene	ug/kg	ND	5.0	12/16/11 09:14	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	12/16/11 09:14	
Iodomethane	ug/kg	ND	100	12/16/11 09:14	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	12/16/11 09:14	
Methyl-tert-butyl ether	ug/kg	ND	5.0	12/16/11 09:14	
Methylene Chloride	ug/kg	ND	20.0	12/16/11 09:14	
n-Butylbenzene	ug/kg	ND	5.0	12/16/11 09:14	
n-Hexane	ug/kg	ND	5.0	12/16/11 09:14	
n-Propylbenzene	ug/kg	ND	5.0	12/16/11 09:14	
Naphthalene	ug/kg	ND	5.0	12/16/11 09:14	
p-Isopropyltoluene	ug/kg	ND	5.0	12/16/11 09:14	
sec-Butylbenzene	ug/kg	ND	5.0	12/16/11 09:14	
Styrene	ug/kg	ND	5.0	12/16/11 09:14	
tert-Butylbenzene	ug/kg	ND	5.0	12/16/11 09:14	
Tetrachloroethene	ug/kg	ND	5.0	12/16/11 09:14	
Toluene	ug/kg	ND	5.0	12/16/11 09:14	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	12/16/11 09:14	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	12/16/11 09:14	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	12/16/11 09:14	
Trichloroethene	ug/kg	ND	5.0	12/16/11 09:14	
Trichlorofluoromethane	ug/kg	ND	5.0	12/16/11 09:14	
Vinyl acetate	ug/kg	ND	100	12/16/11 09:14	
Vinyl chloride	ug/kg	ND	5.0	12/16/11 09:14	
Xylene (Total)	ug/kg	ND	10.0	12/16/11 09:14	
4-Bromofluorobenzene (S)	%.	102	67-134	12/16/11 09:14	
Dibromofluoromethane (S)	%.	104	71-125	12/16/11 09:14	
Toluene-d8 (S)	%.	98	76-124	12/16/11 09:14	

LABORATORY CONTROL SAMPLE: 662119

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	52.5	105	70-130	
1,1,1-Trichloroethane	ug/kg	50	52.6	105	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	50	51.8	104	70-130	
1,1,2-Trichloroethane	ug/kg	50	56.7	113	70-130	
1,1-Dichloroethane	ug/kg	50	49.7	99	70-130	
1,1-Dichloroethene	ug/kg	50	52.9	106	70-130	
1,1-Dichloropropene	ug/kg	50	53.4	107	70-130	
1,2,3-Trichlorobenzene	ug/kg	50	49.0	98	70-130	
1,2,3-Trichloropropane	ug/kg	50	109	219	70-130	L3
1,2,4-Trichlorobenzene	ug/kg	50	49.2	98	70-130	
1,2,4-Trimethylbenzene	ug/kg	50	49.6	99	70-130	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055966

LABORATORY CONTROL SAMPLE: 662119

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/kg	50	54.2	108	70-130	
1,2-Dichlorobenzene	ug/kg	50	48.8	98	70-130	
1,2-Dichloroethane	ug/kg	50	49.7	99	70-130	
1,2-Dichloropropane	ug/kg	50	51.8	104	70-130	
1,3,5-Trimethylbenzene	ug/kg	50	45.5	91	70-130	
1,3-Dichlorobenzene	ug/kg	50	47.9	96	70-130	
1,3-Dichloropropane	ug/kg	50	53.2	106	70-130	
1,4-Dichlorobenzene	ug/kg	50	47.6	95	70-130	
2,2-Dichloropropane	ug/kg	50	53.2	106	40-160	
2-Butanone (MEK)	ug/kg	250	261	105	40-160	
2-Chlorotoluene	ug/kg	50	47.6	95	70-130	
2-Hexanone	ug/kg	250	257	103	40-160	
4-Chlorotoluene	ug/kg	50	51.2	102	70-130	
4-Methyl-2-pentanone (MIBK)	ug/kg	250	260	104	70-130	
Acetone	ug/kg	250	373	149	40-160	
Acrolein	ug/kg	1000	941	94	40-160	
Acrylonitrile	ug/kg	1000	1050	105	70-130	
Benzene	ug/kg	50	49.8	100	70-130	
Bromobenzene	ug/kg	50	49.1	98	70-130	
Bromochloromethane	ug/kg	50	48.1	96	70-130	
Bromodichloromethane	ug/kg	50	51.1	102	70-130	
Bromoform	ug/kg	50	46.3	93	70-130	
Bromomethane	ug/kg	50	57.0	114	40-160	
Carbon disulfide	ug/kg	100	105	105	40-160	
Carbon tetrachloride	ug/kg	50	54.1	108	70-130	
Chlorobenzene	ug/kg	50	50.9	102	70-130	
Chloroethane	ug/kg	50	58.0	116	70-130	
Chloroform	ug/kg	50	49.7	99	70-130	
Chloromethane	ug/kg	50	48.5	97	70-130	
cis-1,2-Dichloroethene	ug/kg	50	47.4	95	70-130	
cis-1,3-Dichloropropene	ug/kg	50	49.4	99	70-130	
Dibromochloromethane	ug/kg	50	47.9	96	70-130	
Dibromomethane	ug/kg	50	49.8	100	70-130	
Dichlorodifluoromethane	ug/kg	50	60.2	120	70-130	
Ethyl methacrylate	ug/kg	200	204	102	40-160	
Ethylbenzene	ug/kg	50	51.8	104	70-130	
Hexachloro-1,3-butadiene	ug/kg	50	48.5	97	70-130	
Iodomethane	ug/kg	100	134	134	70-130	L3
Isopropylbenzene (Cumene)	ug/kg	50	50.6	101	70-130	
Methyl-tert-butyl ether	ug/kg	100	111	111	40-160	
Methylene Chloride	ug/kg	50	50.0	100	70-130	
n-Butylbenzene	ug/kg	50	49.2	98	70-130	
n-Hexane	ug/kg	50	51.6	103	70-130	
n-Propylbenzene	ug/kg	50	50.0	100	70-130	
Naphthalene	ug/kg	50	49.0	98	70-130	
p-Isopropyltoluene	ug/kg	50	50.3	101	70-130	
sec-Butylbenzene	ug/kg	50	48.8	98	70-130	
Styrene	ug/kg	50	49.8	100	70-130	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055966

LABORATORY CONTROL SAMPLE: 662119

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/kg	50	38.1	76	70-130	
Tetrachloroethene	ug/kg	50	53.9	108	70-130	
Toluene	ug/kg	50	48.8	98	70-130	
trans-1,2-Dichloroethene	ug/kg	50	51.9	104	70-130	
trans-1,3-Dichloropropene	ug/kg	50	50.0	100	70-130	
trans-1,4-Dichloro-2-butene	ug/kg	200	237	119	70-130	
Trichloroethene	ug/kg	50	50.4	101	70-130	
Trichlorofluoromethane	ug/kg	50	51.8	104	70-130	
Vinyl acetate	ug/kg	200	203	102	40-160	
Vinyl chloride	ug/kg	50	51.8	104	70-130	
Xylene (Total)	ug/kg	150	154	102	70-130	
4-Bromofluorobenzene (S)	%.			95	70-130	
Dibromofluoromethane (S)	%.			97	70-130	
Toluene-d8 (S)	%.			102	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 662120 662121

Parameter	Units	5055987001 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	50.4	55.6	38.0	42.8	75	77	10-111	12	20	
1,1,1-Trichloroethane	ug/kg	ND	50.4	55.6	44.7	52.1	89	94	36-128	15	20	
1,1,2,2-Tetrachloroethane	ug/kg	ND	50.4	55.6	35.3	40.5	70	73	10-130	14	20	
1,1,2-Trichloroethane	ug/kg	ND	50.4	55.6	41.5	44.8	82	81	10-126	8	20	
1,1-Dichloroethane	ug/kg	ND	50.4	55.6	42.2	48.3	84	87	39-126	13	20	
1,1-Dichloroethene	ug/kg	ND	50.4	55.6	45.0	54.7	89	98	42-147	19	20	
1,1-Dichloropropene	ug/kg	ND	50.4	55.6	41.6	51.4	82	93	29-129	21	20	
1,2,3-Trichlorobenzene	ug/kg	ND	50.4	55.6	13.8	23.1	27	42	10-91	50	20	
1,2,3-Trichloropropane	ug/kg	ND	50.4	55.6	64.7	76.1	128	137	10-99	16	20	M0
1,2,4-Trichlorobenzene	ug/kg	ND	50.4	55.6	14.4	24.0	29	43	10-88	50	20	
1,2,4-Trimethylbenzene	ug/kg	ND	50.4	55.6	28.7	38.0	57	68	10-109	28	20	
1,2-Dibromoethane (EDB)	ug/kg	ND	50.4	55.6	37.8	42.0	75	75	10-119	11	20	
1,2-Dichlorobenzene	ug/kg	ND	50.4	55.6	23.0	30.9	46	56	10-104	29	20	
1,2-Dichloroethane	ug/kg	ND	50.4	55.6	37.9	42.8	75	77	19-126	12	20	
1,2-Dichloropropane	ug/kg	ND	50.4	55.6	39.8	44.5	79	80	24-123	11	20	
1,3,5-Trimethylbenzene	ug/kg	ND	50.4	55.6	28.9	37.2	57	67	10-118	25	20	
1,3-Dichlorobenzene	ug/kg	ND	50.4	55.6	23.0	31.9	46	57	10-108	32	20	
1,3-Dichloropropane	ug/kg	ND	50.4	55.6	38.0	42.7	75	77	12-121	12	20	
1,4-Dichlorobenzene	ug/kg	ND	50.4	55.6	22.0	29.9	44	54	10-104	30	20	
2,2-Dichloropropane	ug/kg	ND	50.4	55.6	44.9	53.2	89	96	32-124	17	20	
2-Butanone (MEK)	ug/kg	ND	252	278	187	230	74	83	10-183	20	20	
2-Chlorotoluene	ug/kg	ND	50.4	55.6	28.9	37.2	57	67	10-128	25	20	
2-Hexanone	ug/kg	ND	252	278	181	208	72	75	10-158	14	20	
4-Chlorotoluene	ug/kg	ND	50.4	55.6	28.0	37.2	55	67	10-119	28	20	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	252	278	199	226	79	81	12-130	13	20	
Acetone	ug/kg	ND	252	278	279	349	100	116	10-200	22	20	
Acrolein	ug/kg	ND	1010	1110	743	874	74	79	10-200	16	20	
Acrylonitrile	ug/kg	ND	1010	1110	741	909	73	82	19-130	20	20	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055966

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 662120 662121

Parameter	Units	5055987001 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	50.4	55.6	39.2	45.8	78	82	23-138	16	20	
Bromobenzene	ug/kg	ND	50.4	55.6	28.0	34.6	55	62	10-111	21	20	
Bromochloromethane	ug/kg	ND	50.4	55.6	38.0	42.7	75	77	26-126	12	20	
Bromodichloromethane	ug/kg	ND	50.4	55.6	36.9	42.2	73	76	10-120	13	20	
Bromoform	ug/kg	ND	50.4	55.6	29.4	33.5	58	60	10-106	13	20	
Bromomethane	ug/kg	ND	50.4	55.6	47.5	55.3	94	100	10-190	15	20	
Carbon disulfide	ug/kg	ND	101	111	83.9	103	83	93	31-128	20	20	
Carbon tetrachloride	ug/kg	ND	50.4	55.6	44.5	53.7	88	97	26-126	19	20	
Chlorobenzene	ug/kg	ND	50.4	55.6	33.2	39.9	66	72	10-120	18	20	
Chloroethane	ug/kg	ND	50.4	55.6	52.0	58.9	103	106	18-186	12	20	
Chloroform	ug/kg	ND	50.4	55.6	40.2	45.8	80	82	29-126	13	20	
Chloromethane	ug/kg	ND	50.4	55.6	40.3	47.7	80	86	34-131	17	20	
cis-1,2-Dichloroethene	ug/kg	ND	50.4	55.6	37.1	43.1	74	77	28-132	15	20	
cis-1,3-Dichloropropene	ug/kg	ND	50.4	55.6	34.1	38.5	68	69	10-108	12	20	
Dibromochloromethane	ug/kg	ND	50.4	55.6	33.1	37.8	66	68	10-108	13	20	
Dibromomethane	ug/kg	ND	50.4	55.6	35.5	41.5	70	75	13-122	16	20	
Dichlorodifluoromethane	ug/kg	ND	50.4	55.6	54.5	62.8	108	113	10-197	14	20	
Ethyl methacrylate	ug/kg	ND	202	222	114	131	56	59	10-130	15	20	
Ethylbenzene	ug/kg	ND	50.4	55.6	36.9	44.2	73	79	10-135	18	20	
Hexachloro-1,3-butadiene	ug/kg	ND	50.4	55.6	22.0	38.3	44	69	10-105	54	20	
Iodomethane	ug/kg	ND	101	111	115	124	114	111	10-163	8	20	
Isopropylbenzene (Cumene)	ug/kg	ND	50.4	55.6	35.9	45.4	71	82	10-121	23	20	
Methyl-tert-butyl ether	ug/kg	ND	101	111	89.9	101	89	90	20-140	11	20	
Methylene Chloride	ug/kg	ND	50.4	55.6	39.7	44.4	79	80	28-131	11	20	
n-Butylbenzene	ug/kg	ND	50.4	55.6	26.1	38.4	52	69	10-110	38	20	
n-Hexane	ug/kg	ND	50.4	55.6	41.7	52.0	83	94	21-150	22	20	2d
n-Propylbenzene	ug/kg	ND	50.4	55.6	31.6	41.9	63	75	10-123	28	20	
Naphthalene	ug/kg	ND	50.4	55.6	15.3	24.4	30	44	10-106	46	20	
p-Isopropyltoluene	ug/kg	ND	50.4	55.6	30.0	41.6	59	75	10-117	32	20	
sec-Butylbenzene	ug/kg	ND	50.4	55.6	31.4	43.1	62	78	10-123	31	20	
Styrene	ug/kg	ND	50.4	55.6	30.4	36.9	60	66	10-119	19	20	
tert-Butylbenzene	ug/kg	ND	50.4	55.6	26.0	33.6	52	60	10-105	26	20	
Tetrachloroethene	ug/kg	ND	50.4	55.6	40.5	49.7	80	89	10-122	20	20	
Toluene	ug/kg	ND	50.4	55.6	37.5	43.5	74	78	10-131	15	20	
trans-1,2-Dichloroethene	ug/kg	ND	50.4	55.6	42.6	49.7	85	89	32-136	15	20	
trans-1,3-Dichloropropene	ug/kg	ND	50.4	55.6	32.5	36.3	64	65	10-101	11	20	
trans-1,4-Dichloro-2-butene	ug/kg	ND	202	222	139	164	69	74	10-104	16	20	
Trichloroethene	ug/kg	ND	50.4	55.6	37.8	45.1	75	81	15-133	18	20	
Trichlorofluoromethane	ug/kg	ND	50.4	55.6	46.9	55.6	93	100	37-152	17	20	
Vinyl acetate	ug/kg	ND	202	222	ND	ND	11	16	10-103		20	
Vinyl chloride	ug/kg	ND	50.4	55.6	46.8	54.7	93	98	41-147	15	20	
Xylene (Total)	ug/kg	ND	151	166	106	130	70	78	10-131	20	20	
4-Bromofluorobenzene (S)	%.						97	97	67-134		20	
Dibromofluoromethane (S)	%.						97	99	71-125		20	
Toluene-d8 (S)	%.						104	101	76-124		20	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055966

QC Batch: MSV/38148 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 5055966002, 5055966003, 5055966004

METHOD BLANK: 662381 Matrix: Solid
Associated Lab Samples: 5055966002, 5055966003, 5055966004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	12/16/11 21:05	
1,1,1-Trichloroethane	ug/kg	ND	5.0	12/16/11 21:05	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	12/16/11 21:05	
1,1,2-Trichloroethane	ug/kg	ND	5.0	12/16/11 21:05	
1,1-Dichloroethane	ug/kg	ND	5.0	12/16/11 21:05	
1,1-Dichloroethene	ug/kg	ND	5.0	12/16/11 21:05	
1,1-Dichloropropene	ug/kg	ND	5.0	12/16/11 21:05	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	12/16/11 21:05	
1,2,3-Trichloropropane	ug/kg	ND	5.0	12/16/11 21:05	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	12/16/11 21:05	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	12/16/11 21:05	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	12/16/11 21:05	
1,2-Dichlorobenzene	ug/kg	ND	5.0	12/16/11 21:05	
1,2-Dichloroethane	ug/kg	ND	5.0	12/16/11 21:05	
1,2-Dichloropropane	ug/kg	ND	5.0	12/16/11 21:05	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	12/16/11 21:05	
1,3-Dichlorobenzene	ug/kg	ND	5.0	12/16/11 21:05	
1,3-Dichloropropane	ug/kg	ND	5.0	12/16/11 21:05	
1,4-Dichlorobenzene	ug/kg	ND	5.0	12/16/11 21:05	
2,2-Dichloropropane	ug/kg	ND	5.0	12/16/11 21:05	
2-Butanone (MEK)	ug/kg	ND	25.0	12/16/11 21:05	
2-Chlorotoluene	ug/kg	ND	5.0	12/16/11 21:05	
2-Hexanone	ug/kg	ND	100	12/16/11 21:05	
4-Chlorotoluene	ug/kg	ND	5.0	12/16/11 21:05	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	12/16/11 21:05	
Acetone	ug/kg	ND	100	12/16/11 21:05	
Acrolein	ug/kg	ND	100	12/16/11 21:05	
Acrylonitrile	ug/kg	ND	100	12/16/11 21:05	
Benzene	ug/kg	ND	5.0	12/16/11 21:05	
Bromobenzene	ug/kg	ND	5.0	12/16/11 21:05	
Bromochloromethane	ug/kg	ND	5.0	12/16/11 21:05	
Bromodichloromethane	ug/kg	ND	5.0	12/16/11 21:05	
Bromoform	ug/kg	ND	5.0	12/16/11 21:05	
Bromomethane	ug/kg	ND	5.0	12/16/11 21:05	
Carbon disulfide	ug/kg	ND	10.0	12/16/11 21:05	
Carbon tetrachloride	ug/kg	ND	5.0	12/16/11 21:05	
Chlorobenzene	ug/kg	ND	5.0	12/16/11 21:05	
Chloroethane	ug/kg	ND	5.0	12/16/11 21:05	
Chloroform	ug/kg	ND	5.0	12/16/11 21:05	
Chloromethane	ug/kg	ND	5.0	12/16/11 21:05	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	12/16/11 21:05	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	12/16/11 21:05	
Dibromochloromethane	ug/kg	ND	5.0	12/16/11 21:05	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055966

METHOD BLANK: 662381 Matrix: Solid

Associated Lab Samples: 5055966002, 5055966003, 5055966004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	5.0	12/16/11 21:05	
Dichlorodifluoromethane	ug/kg	ND	5.0	12/16/11 21:05	
Ethyl methacrylate	ug/kg	ND	100	12/16/11 21:05	
Ethylbenzene	ug/kg	ND	5.0	12/16/11 21:05	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	12/16/11 21:05	
Iodomethane	ug/kg	ND	100	12/16/11 21:05	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	12/16/11 21:05	
Methyl-tert-butyl ether	ug/kg	ND	5.0	12/16/11 21:05	
Methylene Chloride	ug/kg	ND	20.0	12/16/11 21:05	
n-Butylbenzene	ug/kg	ND	5.0	12/16/11 21:05	
n-Hexane	ug/kg	ND	5.0	12/16/11 21:05	
n-Propylbenzene	ug/kg	ND	5.0	12/16/11 21:05	
Naphthalene	ug/kg	ND	5.0	12/16/11 21:05	
p-Isopropyltoluene	ug/kg	ND	5.0	12/16/11 21:05	
sec-Butylbenzene	ug/kg	ND	5.0	12/16/11 21:05	
Styrene	ug/kg	ND	5.0	12/16/11 21:05	
tert-Butylbenzene	ug/kg	ND	5.0	12/16/11 21:05	
Tetrachloroethene	ug/kg	ND	5.0	12/16/11 21:05	
Toluene	ug/kg	ND	5.0	12/16/11 21:05	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	12/16/11 21:05	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	12/16/11 21:05	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	12/16/11 21:05	
Trichloroethene	ug/kg	ND	5.0	12/16/11 21:05	
Trichlorofluoromethane	ug/kg	ND	5.0	12/16/11 21:05	
Vinyl acetate	ug/kg	ND	100	12/16/11 21:05	
Vinyl chloride	ug/kg	ND	5.0	12/16/11 21:05	
Xylene (Total)	ug/kg	ND	10.0	12/16/11 21:05	
4-Bromofluorobenzene (S)	%.	103	67-134	12/16/11 21:05	
Dibromofluoromethane (S)	%.	108	71-125	12/16/11 21:05	
Toluene-d8 (S)	%.	97	76-124	12/16/11 21:05	

LABORATORY CONTROL SAMPLE: 662382

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	50.6	101	70-130	
1,1,1-Trichloroethane	ug/kg	50	49.9	100	70-130	
1,1,2,2-Tetrachloroethane	ug/kg	50	50.7	101	70-130	
1,1,2-Trichloroethane	ug/kg	50	55.0	110	70-130	
1,1-Dichloroethane	ug/kg	50	47.3	95	70-130	
1,1-Dichloroethene	ug/kg	50	50.8	102	70-130	
1,1-Dichloropropene	ug/kg	50	50.3	101	70-130	
1,2,3-Trichlorobenzene	ug/kg	50	47.0	94	70-130	
1,2,3-Trichloropropane	ug/kg	50	103	206	70-130	L3
1,2,4-Trichlorobenzene	ug/kg	50	46.0	92	70-130	
1,2,4-Trimethylbenzene	ug/kg	50	47.9	96	70-130	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055966

LABORATORY CONTROL SAMPLE: 662382

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/kg	50	52.6	105	70-130	
1,2-Dichlorobenzene	ug/kg	50	48.0	96	70-130	
1,2-Dichloroethane	ug/kg	50	46.9	94	70-130	
1,2-Dichloropropane	ug/kg	50	49.3	99	70-130	
1,3,5-Trimethylbenzene	ug/kg	50	43.8	88	70-130	
1,3-Dichlorobenzene	ug/kg	50	46.9	94	70-130	
1,3-Dichloropropane	ug/kg	50	51.6	103	70-130	
1,4-Dichlorobenzene	ug/kg	50	46.2	92	70-130	
2,2-Dichloropropane	ug/kg	50	48.1	96	40-160	
2-Butanone (MEK)	ug/kg	250	226	90	40-160	
2-Chlorotoluene	ug/kg	50	46.2	92	70-130	
2-Hexanone	ug/kg	250	233	93	40-160	
4-Chlorotoluene	ug/kg	50	49.2	98	70-130	
4-Methyl-2-pentanone (MIBK)	ug/kg	250	250	100	70-130	
Acetone	ug/kg	250	259	103	40-160	
Acrolein	ug/kg	1000	962	96	40-160	
Acrylonitrile	ug/kg	1000	965	97	70-130	
Benzene	ug/kg	50	47.8	96	70-130	
Bromobenzene	ug/kg	50	48.1	96	70-130	
Bromochloromethane	ug/kg	50	44.0	88	70-130	
Bromodichloromethane	ug/kg	50	48.6	97	70-130	
Bromoform	ug/kg	50	43.8	88	70-130	
Bromomethane	ug/kg	50	54.3	109	40-160	
Carbon disulfide	ug/kg	100	101	101	40-160	
Carbon tetrachloride	ug/kg	50	50.5	101	70-130	
Chlorobenzene	ug/kg	50	49.2	98	70-130	
Chloroethane	ug/kg	50	55.9	112	70-130	
Chloroform	ug/kg	50	48.3	97	70-130	
Chloromethane	ug/kg	50	46.0	92	70-130	
cis-1,2-Dichloroethene	ug/kg	50	45.5	91	70-130	
cis-1,3-Dichloropropene	ug/kg	50	47.8	96	70-130	
Dibromochloromethane	ug/kg	50	46.1	92	70-130	
Dibromomethane	ug/kg	50	48.1	96	70-130	
Dichlorodifluoromethane	ug/kg	50	53.4	107	70-130	
Ethyl methacrylate	ug/kg	200	198	99	40-160	
Ethylbenzene	ug/kg	50	49.8	100	70-130	
Hexachloro-1,3-butadiene	ug/kg	50	45.0	90	70-130	
Iodomethane	ug/kg	100	133	133	70-130	L3
Isopropylbenzene (Cumene)	ug/kg	50	49.2	98	70-130	
Methyl-tert-butyl ether	ug/kg	100	107	107	40-160	
Methylene Chloride	ug/kg	50	49.4	99	70-130	
n-Butylbenzene	ug/kg	50	46.4	93	70-130	
n-Hexane	ug/kg	50	49.0	98	70-130	
n-Propylbenzene	ug/kg	50	48.4	97	70-130	
Naphthalene	ug/kg	50	47.7	95	70-130	
p-Isopropyltoluene	ug/kg	50	47.4	95	70-130	
sec-Butylbenzene	ug/kg	50	47.0	94	70-130	
Styrene	ug/kg	50	49.4	99	70-130	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055966

LABORATORY CONTROL SAMPLE: 662382

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/kg	50	37.2	74	70-130	
Tetrachloroethene	ug/kg	50	51.4	103	70-130	
Toluene	ug/kg	50	47.5	95	70-130	
trans-1,2-Dichloroethene	ug/kg	50	50.2	100	70-130	
trans-1,3-Dichloropropene	ug/kg	50	47.6	95	70-130	
trans-1,4-Dichloro-2-butene	ug/kg	200	216	108	70-130	
Trichloroethene	ug/kg	50	47.7	95	70-130	
Trichlorofluoromethane	ug/kg	50	48.9	98	70-130	
Vinyl acetate	ug/kg	200	169	84	40-160	
Vinyl chloride	ug/kg	50	50.1	100	70-130	
Xylene (Total)	ug/kg	150	148	98	70-130	
4-Bromofluorobenzene (S)	%.			96	70-130	
Dibromofluoromethane (S)	%.			95	70-130	
Toluene-d8 (S)	%.			102	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 662383 662384

Parameter	Units	5055583003 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	44.1	44.9	35.7	40.0	81	89	10-111	11	20	
1,1,1-Trichloroethane	ug/kg	ND	44.1	44.9	41.1	42.0	93	94	36-128	2	20	
1,1,2,2-Tetrachloroethane	ug/kg	ND	44.1	44.9	36.9	36.5	84	81	10-130	1	20	
1,1,2-Trichloroethane	ug/kg	ND	44.1	44.9	41.6	41.8	94	93	10-126	.6	20	
1,1-Dichloroethane	ug/kg	ND	44.1	44.9	39.4	40.0	89	89	39-126	2	20	
1,1-Dichloroethene	ug/kg	ND	44.1	44.9	44.1	43.3	100	96	42-147	2	20	
1,1-Dichloropropene	ug/kg	ND	44.1	44.9	39.3	41.9	89	93	29-129	6	20	
1,2,3-Trichlorobenzene	ug/kg	ND	44.1	44.9	23.4	27.2	53	61	10-91	15	20	
1,2,3-Trichloropropane	ug/kg	ND	44.1	44.9	71.5	70.8	162	158	10-99	1	20	M0
1,2,4-Trichlorobenzene	ug/kg	ND	44.1	44.9	22.3	27.1	51	60	10-88	19	20	
1,2,4-Trimethylbenzene	ug/kg	ND	44.1	44.9	26.2	35.7	60	79	10-109	31	20	
1,2-Dibromoethane (EDB)	ug/kg	ND	44.1	44.9	39.1	39.5	89	88	10-119	.8	20	
1,2-Dichlorobenzene	ug/kg	ND	44.1	44.9	28.1	33.6	64	75	10-104	18	20	
1,2-Dichloroethane	ug/kg	ND	44.1	44.9	36.7	36.5	83	81	19-126	.8	20	
1,2-Dichloropropane	ug/kg	ND	44.1	44.9	38.1	39.1	87	87	24-123	3	20	
1,3,5-Trimethylbenzene	ug/kg	ND	44.1	44.9	24.5	33.5	56	75	10-118	31	20	
1,3-Dichlorobenzene	ug/kg	ND	44.1	44.9	26.0	32.9	59	73	10-108	23	20	
1,3-Dichloropropane	ug/kg	ND	44.1	44.9	38.8	39.0	88	87	12-121	.6	20	
1,4-Dichlorobenzene	ug/kg	ND	44.1	44.9	25.6	32.4	58	72	10-104	23	20	
2,2-Dichloropropane	ug/kg	ND	44.1	44.9	39.9	39.4	91	88	32-124	1	20	
2-Butanone (MEK)	ug/kg	ND	220	225	172	160	78	71	10-183	7	20	
2-Chlorotoluene	ug/kg	ND	44.1	44.9	26.9	35.3	61	79	10-128	27	20	
2-Hexanone	ug/kg	ND	220	225	174	166	79	74	10-158	5	20	
4-Chlorotoluene	ug/kg	ND	44.1	44.9	28.1	36.2	64	81	10-119	25	20	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	220	225	192	181	87	80	12-130	6	20	
Acetone	ug/kg	304	220	225	852	1010	248	312	10-200	17	20	M0
Acrolein	ug/kg	ND	881	898	730	666	83	74	10-200	9	20	
Acrylonitrile	ug/kg	ND	881	898	801	770	91	86	19-130	4	20	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055966

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 662383 662384

Parameter	Units	5055583003 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	44.1	44.9	37.7	39.4	86	88	23-138	4	20	
Bromobenzene	ug/kg	ND	44.1	44.9	30.6	36.1	70	80	10-111	17	20	
Bromochloromethane	ug/kg	ND	44.1	44.9	37.1	37.2	84	83	26-126	.1	20	
Bromodichloromethane	ug/kg	ND	44.1	44.9	36.9	38.5	84	86	10-120	4	20	
Bromoform	ug/kg	ND	44.1	44.9	32.4	32.7	74	73	10-106	1	20	
Bromomethane	ug/kg	ND	44.1	44.9	45.9	46.3	104	103	10-190	.9	20	
Carbon disulfide	ug/kg	ND	88.1	89.8	82.9	84.8	94	94	31-128	2	20	
Carbon tetrachloride	ug/kg	ND	44.1	44.9	40.9	42.3	93	94	26-126	3	20	
Chlorobenzene	ug/kg	ND	44.1	44.9	32.5	38.1	74	85	10-120	16	20	
Chloroethane	ug/kg	ND	44.1	44.9	49.7	48.3	113	108	18-186	3	20	
Chloroform	ug/kg	ND	44.1	44.9	38.5	39.5	87	88	29-126	3	20	
Chloromethane	ug/kg	ND	44.1	44.9	39.2	39.9	89	89	34-131	2	20	
cis-1,2-Dichloroethene	ug/kg	ND	44.1	44.9	36.7	37.4	83	83	28-132	2	20	
cis-1,3-Dichloropropene	ug/kg	ND	44.1	44.9	34.8	36.5	79	81	10-108	5	20	
Dibromochloromethane	ug/kg	ND	44.1	44.9	34.7	35.3	79	79	10-108	2	20	
Dibromomethane	ug/kg	ND	44.1	44.9	36.3	36.0	83	80	13-122	.8	20	
Dichlorodifluoromethane	ug/kg	ND	44.1	44.9	49.4	47.7	112	106	10-197	3	20	
Ethyl methacrylate	ug/kg	ND	176	180	138	140	78	78	10-130	1	20	
Ethylbenzene	ug/kg	ND	44.1	44.9	31.7	39.5	72	88	10-135	22	20	1d
Hexachloro-1,3-butadiene	ug/kg	ND	44.1	44.9	17.7	28.5	40	63	10-105	47	20	
Iodomethane	ug/kg	ND	88.1	89.8	107	105	121	117	10-163	2	20	
Isopropylbenzene (Cumene)	ug/kg	ND	44.1	44.9	29.6	38.9	67	87	10-121	27	20	
Methyl-tert-butyl ether	ug/kg	ND	88.1	89.8	84.7	81.1	96	90	20-140	4	20	
Methylene Chloride	ug/kg	ND	44.1	44.9	41.5	40.7	94	91	28-131	2	20	
n-Butylbenzene	ug/kg	ND	44.1	44.9	21.0	32.0	48	71	10-110	42	20	
n-Hexane	ug/kg	ND	44.1	44.9	39.8	40.5	90	90	21-150	2	20	
n-Propylbenzene	ug/kg	ND	44.1	44.9	26.0	36.9	59	82	10-123	35	20	
Naphthalene	ug/kg	ND	44.1	44.9	28.1	30.2	64	67	10-106	7	20	
p-Isopropyltoluene	ug/kg	ND	44.1	44.9	23.6	35.1	54	78	10-117	39	20	
sec-Butylbenzene	ug/kg	ND	44.1	44.9	24.6	35.9	56	80	10-123	37	20	
Styrene	ug/kg	ND	44.1	44.9	31.4	37.6	71	84	10-119	18	20	
tert-Butylbenzene	ug/kg	ND	44.1	44.9	21.0	28.6	48	64	10-105	31	20	
Tetrachloroethene	ug/kg	ND	44.1	44.9	34.0	41.4	77	92	10-122	20	20	
Toluene	ug/kg	4.5	44.1	44.9	37.2	43.2	74	86	10-131	15	20	
trans-1,2-Dichloroethene	ug/kg	ND	44.1	44.9	40.2	41.3	91	92	32-136	3	20	
trans-1,3-Dichloropropene	ug/kg	ND	44.1	44.9	34.1	35.3	77	79	10-101	4	20	
trans-1,4-Dichloro-2-butene	ug/kg	ND	176	180	154	154	87	86	10-104	.2	20	
Trichloroethene	ug/kg	ND	44.1	44.9	36.0	39.3	82	88	15-133	9	20	
Trichlorofluoromethane	ug/kg	ND	44.1	44.9	43.5	42.7	99	95	37-152	2	20	
Vinyl acetate	ug/kg	ND	176	180	ND	ND	12	14	10-103		20	
Vinyl chloride	ug/kg	ND	44.1	44.9	44.9	44.2	102	98	41-147	2	20	
Xylene (Total)	ug/kg	ND	132	135	93.8	117	71	87	10-131	22	20	
4-Bromofluorobenzene (S)	%.						98	96	67-134		20	
Dibromofluoromethane (S)	%.						96	97	71-125		20	
Toluene-d8 (S)	%.						103	102	76-124		20	

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QUALITY CONTROL DATA

Project: Michigan Plaza M01046
Pace Project No.: 5055966

QC Batch: PMST/6570 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 5055966001, 5055966002, 5055966003, 5055966004

SAMPLE DUPLICATE: 662127

Parameter	Units	5055987001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	26.6	27.2	2	5	

SAMPLE DUPLICATE: 662128

Parameter	Units	5055952002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	20.0	20.3	2	5	

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QUALIFIERS

Project: Michigan Plaza M01046
Pace Project No.: 5055966

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.

ANALYTE QUALIFIERS

1d	Multiple compounds RPD's are outside of the required control limits. Refer to the LCS for system control and data acceotability. slb121911
2d	Multiple compounds RPD's are outside of the required control limits. Refer to the LCS for system control and data acceptability. slb121911
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.
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: Michigan Plaza M01046
Pace Project No.: 5055966

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5055966005	**WFD-2**	EPA 8260	MSV/38172		
5055966006	**MMW-15D 28.5**	EPA 8260	MSV/38172		
5055966007	**MMW-15D 38.5**	EPA 8260	MSV/38172		
5055966008	**GP-29 40'**	EPA 8260	MSV/38172		
5055966009	**GP-29 30'**	EPA 8260	MSV/38172		
5055966001	**MMW-15D 13-15'**	EPA 8260	MSV/38141		
5055966002	**SFD-2**	EPA 8260	MSV/38148		
5055966003	**GP-29 16-18'**	EPA 8260	MSV/38148		
5055966004	**MMW-15D 38.5-39'**	EPA 8260	MSV/38148		
5055966001	**MMW-15D 13-15'**	ASTM D2974-87	PMST/6570		
5055966002	**SFD-2**	ASTM D2974-87	PMST/6570		
5055966003	**GP-29 16-18'**	ASTM D2974-87	PMST/6570		
5055966004	**MMW-15D 38.5-39'**	ASTM D2974-87	PMST/6570		

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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

1497288

Section A Required Client Information:

Company: Mundell
Address:
Email To: swebb@mundellassociates.com
Phone: Fax:
Requested Due Date/TAT: 5 Days

Section B Required Project Information:

Report To: Sarah Webb
Copy To:
Purchase Order No.:
Project Name: Michigan Plaza
Project Number: M01046

Section C Invoice Information:

Attention: MERLE 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: IN

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	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	Analysis Test Y/N: 8260 VOC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MMW-15D 13-15'	S	G	12/14/11	1330				TC									X		-001
2	SFD-2	S							TC									X		-002
3	GP-29 16-18' 38.5-39'	S		12/14/11	855				TC									X		-003
4	MMW-15D 38-38.5-39' 12/15/11 TMS	S		12/14/11	1500				TC									X		-004
5	WFD-2	G							3	X								X		-005
6	MMW-15D 28.5'	G		12/14/11	1530				3	X								X		-006
7	MMW-15D 38.5	G		12/14/11	1620				3	X								X		-007
8	GP-29 40'	G		12/14/11	1010				3	X								X		-008
9	GP-29 20-30' per SW 12/15/11 TMS	G		12/14/11	1025				3	X								X		-009
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)
Unpreserved vials	Sarah E Webb	12/15/11	11:05	Zahra Tehrani	12/15/11	11:05	5.0	Y	N	Y

WI/Pace 822 12/15/11 ORIGINAL 12:25

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY):

*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 # 50559666

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: 1:15

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other T.C kits & Ziploc Bags

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): 5.0°C Ice Visible in Sample Containers: ☐ yes ☑ no

Temp should be above freezing to 6°C

Date and Initials of person examining contents: SS 12/15/11

		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. No dates & times on T.C & voa vials MFD-2. No times on samples MMW-15D 38.5
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. MMW-15D 28.5', MMW-15D 38.5', GP-29 2
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: Sarah Webb Date/Time: 12/15/11 via email* the SS 12/15/11

Comments/ Resolution: Samples GP-29 20' is noted on the COC but on labels of the vials it is not GP-29 30'. The time on the vials matches the COC. Samples MMW-15D 37.5-39' is noted on the COC but the vials has MMW-15D 38.5-39'.

* Use IDs on containers

Project Manager Review: J Sayer Date: 12/15/11

Sample Container Count

CLIENT: Mundell

COC PAGE 1 of 1
COC ID# 1497288

Project # 50559166

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Sample Line Item	DG9H	AG1U	WGFU	R	4/6 BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	VG9H			Comments
1				4												
2				|											
3				|											
4				|											
5																
6													3			
7													|			
8													|			
9													|			
10													|			
11																
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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November 02, 2011

Ms. Sarah Webb
Mundell & Associates
110 South Downey Ave.
Indianapolis, IN 46219

RE: Project: MI Plaza M01046
Pace Project No.: 5053912

Dear Ms. Webb:
Enclosed are the analytical results for sample(s) received by the laboratory on October 19, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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,

Tina Sayer

Tina Sayer

tina.sayer@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: MI Plaza M01046
Pace Project No.: 5053912

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 100418
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana/NELAC Certification #: 04076
Ohio VAP: CL0065
West Virginia Certification #: 330

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 05-008-0
Illinois Certification #: 001191
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-08-TX
Utah Certification #: 9135995665

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SAMPLE SUMMARY

Project: MI Plaza M01046
Pace Project No.: 5053912

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5053912001	**MMW-12S**	Water	10/18/11 10:26	10/19/11 11:17
5053912002	**MMW-9-09S**	Water	10/18/11 11:16	10/19/11 11:17
5053912003	**MMW-C-02**	Water	10/18/11 11:55	10/19/11 11:17
5053912004	**MMW-P-03D**	Water	10/18/11 12:56	10/19/11 11:17
5053912005	**MMW-13D**	Water	10/18/11 13:51	10/19/11 11:17
5053912006	**Trip Blank**	Water	10/18/11 08:00	10/19/11 11:17

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SAMPLE ANALYTE COUNT

Project: MI Plaza M01046
Pace Project No.: 5053912

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
5053912001	**MMW-12S**	EPA 8260	SLB	20	PASI-I
5053912002	**MMW-9-09S**	EPA 8260	SLB	20	PASI-I
5053912003	**MMW-C-02**	EPA 8260	SLB	20	PASI-I
5053912004	**MMW-P-03D**	EPA 8260	SLB	20	PASI-I
		EPA 353.2	ILP	2	PASI-I
		SM 5310C	LAJ	1	PASI-K
		ASTM D516-90,02	TPD	1	PASI-I
5053912005	**MMW-13D**	EPA 8260	SLB	20	PASI-I
5053912006	**Trip Blank**	EPA 8260	SLB	20	PASI-I

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5053912

Sample: MMW-12S **Lab ID: 5053912001** Collected: 10/18/11 10:26 Received: 10/19/11 11:17 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		10/26/11 21:35	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		10/26/11 21:35	56-23-5	
Chloroform	ND	ug/L	5.0	1		10/26/11 21:35	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/26/11 21:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/26/11 21:35	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/26/11 21:35	75-35-4	
cis-1,2-Dichloroethene	**39.4**	ug/L	5.0	1		10/26/11 21:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/26/11 21:35	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		10/26/11 21:35	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		10/26/11 21:35	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/26/11 21:35	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		10/26/11 21:35	127-18-4	
Toluene	ND	ug/L	5.0	1		10/26/11 21:35	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/26/11 21:35	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		10/26/11 21:35	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		10/26/11 21:35	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/26/11 21:35	1330-20-7	
Dibromofluoromethane (S)	101	%	83-123	1		10/26/11 21:35	1868-53-7	
4-Bromofluorobenzene (S)	99	%	72-125	1		10/26/11 21:35	460-00-4	
Toluene-d8 (S)	99	%	81-114	1		10/26/11 21:35	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5053912

Sample: MMW-9-09S **Lab ID: 5053912002** Collected: 10/18/11 11:16 Received: 10/19/11 11:17 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		10/26/11 22:30	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		10/26/11 22:30	56-23-5	
Chloroform	ND	ug/L	5.0	1		10/26/11 22:30	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/26/11 22:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/26/11 22:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/26/11 22:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/26/11 22:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/26/11 22:30	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		10/26/11 22:30	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		10/26/11 22:30	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/26/11 22:30	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		10/26/11 22:30	127-18-4	
Toluene	ND	ug/L	5.0	1		10/26/11 22:30	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/26/11 22:30	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		10/26/11 22:30	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		10/26/11 22:30	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/26/11 22:30	1330-20-7	
Dibromofluoromethane (S)	101	%	83-123	1		10/26/11 22:30	1868-53-7	
4-Bromofluorobenzene (S)	102	%	72-125	1		10/26/11 22:30	460-00-4	
Toluene-d8 (S)	100	%	81-114	1		10/26/11 22:30	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5053912

Sample: MMW-C-02 **Lab ID: 5053912003** Collected: 10/18/11 11:55 Received: 10/19/11 11:17 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		10/26/11 22:56	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		10/26/11 22:56	56-23-5	
Chloroform	ND	ug/L	5.0	1		10/26/11 22:56	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/26/11 22:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/26/11 22:56	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/26/11 22:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/26/11 22:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/26/11 22:56	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		10/26/11 22:56	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		10/26/11 22:56	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/26/11 22:56	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		10/26/11 22:56	127-18-4	
Toluene	ND	ug/L	5.0	1		10/26/11 22:56	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/26/11 22:56	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		10/26/11 22:56	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		10/26/11 22:56	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/26/11 22:56	1330-20-7	
Dibromofluoromethane (S)	101	%	83-123	1		10/26/11 22:56	1868-53-7	
4-Bromofluorobenzene (S)	101	%	72-125	1		10/26/11 22:56	460-00-4	
Toluene-d8 (S)	99	%	81-114	1		10/26/11 22:56	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5053912

Sample: MMW-P-03D **Lab ID: 5053912004** Collected: 10/18/11 12:56 Received: 10/19/11 11:17 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		10/26/11 23:23	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		10/26/11 23:23	56-23-5	
Chloroform	ND	ug/L	5.0	1		10/26/11 23:23	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/26/11 23:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/26/11 23:23	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/26/11 23:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/26/11 23:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/26/11 23:23	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		10/26/11 23:23	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		10/26/11 23:23	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/26/11 23:23	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		10/26/11 23:23	127-18-4	
Toluene	ND	ug/L	5.0	1		10/26/11 23:23	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/26/11 23:23	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		10/26/11 23:23	79-01-6	
Vinyl chloride	**61.5**	ug/L	2.0	1		10/26/11 23:23	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/26/11 23:23	1330-20-7	
Dibromofluoromethane (S)	102	%	83-123	1		10/26/11 23:23	1868-53-7	
4-Bromofluorobenzene (S)	104	%	72-125	1		10/26/11 23:23	460-00-4	
Toluene-d8 (S)	98	%	81-114	1		10/26/11 23:23	2037-26-5	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		10/19/11 14:13		
Nitrogen, Nitrite	ND	mg/L	0.10	1		10/19/11 14:13		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**9.5**	mg/L	1.0	1		11/01/11 10:26	7440-44-0	
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**10.7**	mg/L	5.0	1		10/20/11 15:12	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5053912

Sample: MMW-13D **Lab ID: 5053912005** Collected: 10/18/11 13:51 Received: 10/19/11 11:17 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		10/27/11 00:17	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		10/27/11 00:17	56-23-5	
Chloroform	ND	ug/L	5.0	1		10/27/11 00:17	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/27/11 00:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/27/11 00:17	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/27/11 00:17	75-35-4	
cis-1,2-Dichloroethene	**771**	ug/L	50.0	10		10/27/11 23:06	156-59-2	
trans-1,2-Dichloroethene	**5.2**	ug/L	5.0	1		10/27/11 00:17	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		10/27/11 00:17	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		10/27/11 00:17	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/27/11 00:17	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		10/27/11 00:17	127-18-4	
Toluene	ND	ug/L	5.0	1		10/27/11 00:17	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/27/11 00:17	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		10/27/11 00:17	79-01-6	
Vinyl chloride	**140**	ug/L	2.0	1		10/27/11 00:17	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/27/11 00:17	1330-20-7	
Dibromofluoromethane (S)	103	%	83-123	1		10/27/11 00:17	1868-53-7	
4-Bromofluorobenzene (S)	103	%	72-125	1		10/27/11 00:17	460-00-4	
Toluene-d8 (S)	98	%	81-114	1		10/27/11 00:17	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5053912

Sample: Trip Blank **Lab ID: 5053912006** Collected: 10/18/11 08:00 Received: 10/19/11 11:17 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		10/27/11 00:44	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		10/27/11 00:44	56-23-5	
Chloroform	ND	ug/L	5.0	1		10/27/11 00:44	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/27/11 00:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/27/11 00:44	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/27/11 00:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/27/11 00:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/27/11 00:44	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		10/27/11 00:44	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		10/27/11 00:44	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/27/11 00:44	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		10/27/11 00:44	127-18-4	
Toluene	ND	ug/L	5.0	1		10/27/11 00:44	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/27/11 00:44	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		10/27/11 00:44	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		10/27/11 00:44	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/27/11 00:44	1330-20-7	
Dibromofluoromethane (S)	103	%	83-123	1		10/27/11 00:44	1868-53-7	
4-Bromofluorobenzene (S)	100	%	72-125	1		10/27/11 00:44	460-00-4	
Toluene-d8 (S)	100	%	81-114	1		10/27/11 00:44	2037-26-5	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5053912

QC Batch: MSV/36913 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5053912001, 5053912002, 5053912003, 5053912004, 5053912005, 5053912006

METHOD BLANK: 641367 Matrix: Water
Associated Lab Samples: 5053912001, 5053912002, 5053912003, 5053912004, 5053912005, 5053912006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	10/26/11 17:59	
1,1-Dichloroethane	ug/L	ND	5.0	10/26/11 17:59	
1,1-Dichloroethene	ug/L	ND	5.0	10/26/11 17:59	
1,2-Dichloroethane	ug/L	ND	5.0	10/26/11 17:59	
Benzene	ug/L	ND	5.0	10/26/11 17:59	
Carbon tetrachloride	ug/L	ND	5.0	10/26/11 17:59	
Chloroform	ug/L	ND	5.0	10/26/11 17:59	
cis-1,2-Dichloroethene	ug/L	ND	5.0	10/26/11 17:59	
Ethylbenzene	ug/L	ND	5.0	10/26/11 17:59	
Methylene chloride	ug/L	ND	5.0	10/26/11 17:59	
Naphthalene	ug/L	ND	5.0	10/26/11 17:59	
Tetrachloroethene	ug/L	ND	5.0	10/26/11 17:59	
Toluene	ug/L	ND	5.0	10/26/11 17:59	
trans-1,2-Dichloroethene	ug/L	ND	5.0	10/26/11 17:59	
Trichloroethene	ug/L	ND	5.0	10/26/11 17:59	
Vinyl chloride	ug/L	ND	2.0	10/26/11 17:59	
Xylene (Total)	ug/L	ND	10.0	10/26/11 17:59	
4-Bromofluorobenzene (S)	%	98	72-125	10/26/11 17:59	
Dibromofluoromethane (S)	%	103	83-123	10/26/11 17:59	
Toluene-d8 (S)	%	98	81-114	10/26/11 17:59	

LABORATORY CONTROL SAMPLE: 641368

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	49.8	100	69-126	
1,1-Dichloroethane	ug/L	50	50.3	101	70-127	
1,1-Dichloroethene	ug/L	50	46.1	92	75-145	
1,2-Dichloroethane	ug/L	50	48.9	98	71-127	
Benzene	ug/L	50	52.5	105	76-123	
Carbon tetrachloride	ug/L	50	49.3	99	65-125	
Chloroform	ug/L	50	51.3	103	73-122	
cis-1,2-Dichloroethene	ug/L	50	54.1	108	79-129	
Ethylbenzene	ug/L	50	50.5	101	75-120	
Methylene chloride	ug/L	50	48.9	98	61-138	
Naphthalene	ug/L	50	42.3	85	62-130	
Tetrachloroethene	ug/L	50	51.5	103	57-125	
Toluene	ug/L	50	50.7	101	72-124	
trans-1,2-Dichloroethene	ug/L	50	45.6	91	71-145	
Trichloroethene	ug/L	50	50.4	101	77-122	
Vinyl chloride	ug/L	50	42.3	85	61-146	
Xylene (Total)	ug/L	150	141	94	72-126	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5053912

LABORATORY CONTROL SAMPLE: 641368

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			103	72-125	
Dibromofluoromethane (S)	%			104	83-123	
Toluene-d8 (S)	%			99	81-114	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 641369 641370

Parameter	Units	5053888001 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	49.3	48.9	99	98	37-136	.9	20	
1,1-Dichloroethane	ug/L	ND	50	50	51.1	50.0	102	100	47-138	2	20	
1,1-Dichloroethene	ug/L	ND	50	50	45.1	44.8	90	90	54-152	.6	20	
1,2-Dichloroethane	ug/L	ND	50	50	49.7	48.5	99	97	42-139	3	20	
Benzene	ug/L	ND	50	50	51.5	50.7	103	101	52-134	2	20	
Carbon tetrachloride	ug/L	ND	50	50	49.2	47.8	98	96	26-136	3	20	
Chloroform	ug/L	ND	50	50	53.3	50.9	107	102	50-134	5	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	53.1	51.8	106	104	48-145	2	20	
Ethylbenzene	ug/L	ND	50	50	44.3	38.7	89	77	29-132	13	20	
Methylene chloride	ug/L	ND	50	50	48.5	48.7	89	89	47-141	.4	20	
Naphthalene	ug/L	ND	50	50	36.2	39.0	72	78	40-124	7	20	
Tetrachloroethene	ug/L	ND	50	50	46.5	41.4	93	83	30-124	12	20	
Toluene	ug/L	ND	50	50	47.6	43.1	95	86	42-130	10	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	45.2	44.1	90	88	48-144	2	20	
Trichloroethene	ug/L	ND	50	50	48.4	44.4	97	89	44-130	9	20	
Vinyl chloride	ug/L	ND	50	50	42.8	42.1	86	84	45-159	1	20	
Xylene (Total)	ug/L	ND	150	150	124	107	83	71	29-131	15	20	
4-Bromofluorobenzene (S)	%						101	101	72-125		20	
Dibromofluoromethane (S)	%						106	105	83-123		20	
Toluene-d8 (S)	%						98	97	81-114		20	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5053912

QC Batch: WETA/7015
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 5053912004

METHOD BLANK: 638462 Matrix: Water
Associated Lab Samples: 5053912004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	10/19/11 14:06	
Nitrogen, Nitrite	mg/L	ND	0.10	10/19/11 14:06	

LABORATORY CONTROL SAMPLE: 638463

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	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 638464 638465

Parameter	Units	5053863011 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	1.9	1.9	94	95	90-110	.6	20	
Nitrogen, Nitrite	mg/L	ND	2	2	1.9	1.9	94	94	90-110	.2	20	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5053912

QC Batch: WETA/18104 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 5053912004

METHOD BLANK: 902080 Matrix: Water
Associated Lab Samples: 5053912004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	11/01/11 09:58	

LABORATORY CONTROL SAMPLE: 902081

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	4.8	95	80-120	

MATRIX SPIKE SAMPLE: 902082

Parameter	Units	5053912004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	9.5	5	15.8	126	80-120	M0

SAMPLE DUPLICATE: 902083

Parameter	Units	5053952001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	1.4	1.4	2	25	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5053912

QC Batch: WETA/7017
QC Batch Method: ASTM D516-90,02
Associated Lab Samples: 5053912004

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

METHOD BLANK: 638474 Matrix: Water
Associated Lab Samples: 5053912004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	5.0	10/20/11 15:12	N2

LABORATORY CONTROL SAMPLE: 638475

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	21.2	106	90-110	N2

MATRIX SPIKE SAMPLE: 638476

Parameter	Units	5053706001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	16.6	20	44.0	137	90-110	M0,N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 638477 638478

Parameter	Units	5053755003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	18.5	50	50	79.0	78.2	121	120	90-110	1	20	M3,N2

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QUALIFIERS

Project: MI Plaza M01046
Pace Project No.: 5053912

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.

LABORATORIES

PASI-I	Pace Analytical Services - Indianapolis
PASI-K	Pace Analytical Services - Kansas City

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MI Plaza M01046
Pace Project No.: 5053912

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5053912001	**MMW-12S**	EPA 8260	MSV/36913		
5053912002	**MMW-9-09S**	EPA 8260	MSV/36913		
5053912003	**MMW-C-02**	EPA 8260	MSV/36913		
5053912004	**MMW-P-03D**	EPA 8260	MSV/36913		
5053912005	**MMW-13D**	EPA 8260	MSV/36913		
5053912006	**Trip Blank**	EPA 8260	MSV/36913		
5053912004	**MMW-P-03D**	EPA 353.2	WETA/7015		
5053912004	**MMW-P-03D**	SM 5310C	WETA/18104		
5053912004	**MMW-P-03D**	ASTM D516-90,02	WETA/7017		

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November 03, 2011

Ms. Sarah Webb
Mundell & Associates
110 South Downey Ave.
Indianapolis, IN 46219

RE: Project: MI Plaza M01046
Pace Project No.: 5053952

Dear Ms. Webb:
Enclosed are the analytical results for sample(s) received by the laboratory on October 20, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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,

Tina Sayer

Tina Sayer

tina.sayer@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: MI Plaza M01046
Pace Project No.: 5053952

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 100418
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana/NELAC Certification #: 04076
Ohio VAP: CL0065
West Virginia Certification #: 330

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 05-008-0
Illinois Certification #: 001191
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-08-TX
Utah Certification #: 9135995665

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SAMPLE SUMMARY

Project: MI Plaza M01046
Pace Project No.: 5053952

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5053952001	**MMW-P-02**	Water	10/19/11 09:39	10/20/11 10:30
5053952002	**MMW-P-03S**	Water	10/19/11 10:26	10/20/11 10:30
5053952003	**Dup-1**	Water	10/19/11 08:00	10/20/11 10:30
5053952004	**MMW-P-05**	Water	10/19/11 11:35	10/20/11 10:30
5053952005	**Dup-2**	Water	10/19/11 08:00	10/20/11 10:30
5053952006	**MMW-1S**	Water	10/19/11 12:29	10/20/11 10:30
5053952007	**MMW-14D**	Water	10/19/11 13:19	10/20/11 10:30
5053952008	**MMW-10S**	Water	10/19/11 13:49	10/20/11 10:30
5053952009	**Trip Blank**	Water	10/19/11 08:00	10/20/11 10:30

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SAMPLE ANALYTE COUNT

Project: MI Plaza M01046
Pace Project No.: 5053952

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
5053952001	**MMW-P-02**	EPA 8260	ALA, JLZ	20	PASI-I
		EPA 353.2	ILP	2	PASI-I
		SM 5310C	LAJ	1	PASI-K
		ASTM D516-90,02	TPD	1	PASI-I
5053952002	**MMW-P-03S**	EPA 8260	ALA, JLZ	20	PASI-I
		EPA 353.2	ILP	2	PASI-I
		SM 5310C	LAJ	1	PASI-K
		ASTM D516-90,02	TPD	1	PASI-I
5053952003	**Dup-1**	EPA 8260	JLZ	20	PASI-I
		EPA 353.2	ILP	2	PASI-I
		SM 5310C	LAJ	1	PASI-K
		ASTM D516-90,02	TPD	1	PASI-I
5053952004	**MMW-P-05**	EPA 8260	JLZ	20	PASI-I
5053952005	**Dup-2**	EPA 8260	JLZ	20	PASI-I
5053952006	**MMW-1S**	EPA 8260	JLZ	20	PASI-I
		EPA 353.2	ILP	2	PASI-I
		SM 5310C	LAJ	1	PASI-K
		ASTM D516-90,02	TPD	1	PASI-I
5053952007	**MMW-14D**	EPA 8260	JLZ	20	PASI-I
5053952008	**MMW-10S**	EPA 8260	JLZ	20	PASI-I
		EPA 353.2	ILP	2	PASI-I
		SM 5310C	LAJ	1	PASI-K
		ASTM D516-90,02	TPD	1	PASI-I
5053952009	**Trip Blank**	EPA 8260	JLZ	20	PASI-I

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5053952

Sample: MMW-P-02 **Lab ID: 5053952001** Collected: 10/19/11 09:39 Received: 10/20/11 10:30 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		10/29/11 01:49	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		10/29/11 01:49	56-23-5	
Chloroform	ND	ug/L	5.0	1		10/29/11 01:49	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/29/11 01:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/29/11 01:49	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/29/11 01:49	75-35-4	
cis-1,2-Dichloroethene	**36.9**	ug/L	5.0	1		10/29/11 01:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/29/11 01:49	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		10/29/11 01:49	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		10/29/11 01:49	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/29/11 01:49	91-20-3	
Tetrachloroethene	**9.1**	ug/L	5.0	1		10/29/11 01:49	127-18-4	
Toluene	ND	ug/L	5.0	1		10/29/11 01:49	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/29/11 01:49	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		10/29/11 01:49	79-01-6	
Vinyl chloride	**304**	ug/L	20.0	10		10/31/11 14:12	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/29/11 01:49	1330-20-7	
Dibromofluoromethane (S)	92	%	83-123	1		10/29/11 01:49	1868-53-7	
4-Bromofluorobenzene (S)	104	%	72-125	1		10/29/11 01:49	460-00-4	
Toluene-d8 (S)	96	%	81-114	1		10/29/11 01:49	2037-26-5	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		10/20/11 14:59		
Nitrogen, Nitrite	ND	mg/L	0.10	1		10/20/11 14:59		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.4**	mg/L	1.0	1		11/01/11 10:54	7440-44-0	
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**84.2**	mg/L	50.0	1		11/01/11 10:02	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5053952

Sample: MMW-P-03S **Lab ID: 5053952002** Collected: 10/19/11 10:26 Received: 10/20/11 10:30 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		10/29/11 02:21	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		10/29/11 02:21	56-23-5	
Chloroform	ND	ug/L	5.0	1		10/29/11 02:21	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/29/11 02:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/29/11 02:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/29/11 02:21	75-35-4	
cis-1,2-Dichloroethene	**33.5**	ug/L	5.0	1		10/29/11 02:21	156-59-2	
trans-1,2-Dichloroethene	**6.6**	ug/L	5.0	1		10/29/11 02:21	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		10/29/11 02:21	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		10/29/11 02:21	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/29/11 02:21	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		10/29/11 02:21	127-18-4	
Toluene	ND	ug/L	5.0	1		10/29/11 02:21	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/29/11 02:21	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		10/29/11 02:21	79-01-6	
Vinyl chloride	**446**	ug/L	20.0	10		10/31/11 14:44	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/29/11 02:21	1330-20-7	
Dibromofluoromethane (S)	92	%	83-123	1		10/29/11 02:21	1868-53-7	
4-Bromofluorobenzene (S)	104	%	72-125	1		10/29/11 02:21	460-00-4	
Toluene-d8 (S)	96	%	81-114	1		10/29/11 02:21	2037-26-5	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		10/20/11 15:02		
Nitrogen, Nitrite	ND	mg/L	0.10	1		10/20/11 15:02		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2.0**	mg/L	1.0	1		11/01/11 11:23	7440-44-0	
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**35.5**	mg/L	12.5	1		11/01/11 10:02	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5053952

Sample: Dup-1 **Lab ID: 5053952003** Collected: 10/19/11 08:00 Received: 10/20/11 10:30 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		10/29/11 03:57	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		10/29/11 03:57	56-23-5	
Chloroform	ND	ug/L	5.0	1		10/29/11 03:57	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/29/11 03:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/29/11 03:57	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/29/11 03:57	75-35-4	
cis-1,2-Dichloroethene	**35.4**	ug/L	5.0	1		10/29/11 03:57	156-59-2	
trans-1,2-Dichloroethene	**6.8**	ug/L	5.0	1		10/29/11 03:57	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		10/29/11 03:57	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		10/29/11 03:57	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/29/11 03:57	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		10/29/11 03:57	127-18-4	
Toluene	ND	ug/L	5.0	1		10/29/11 03:57	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/29/11 03:57	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		10/29/11 03:57	79-01-6	
Vinyl chloride	**497**	ug/L	50.0	25		10/29/11 04:29	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/29/11 03:57	1330-20-7	
Dibromofluoromethane (S)	95	%	83-123	1		10/29/11 03:57	1868-53-7	
4-Bromofluorobenzene (S)	103	%	72-125	1		10/29/11 03:57	460-00-4	
Toluene-d8 (S)	96	%	81-114	1		10/29/11 03:57	2037-26-5	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		10/20/11 14:58		
Nitrogen, Nitrite	ND	mg/L	0.10	1		10/20/11 14:58		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2.1**	mg/L	1.0	1		11/01/11 11:37	7440-44-0	
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**38.8**	mg/L	12.5	1		11/01/11 10:02	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5053952

Sample: MMW-P-05 **Lab ID: 5053952004** Collected: 10/19/11 11:35 Received: 10/20/11 10:30 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		10/29/11 05:01	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		10/29/11 05:01	56-23-5	
Chloroform	ND	ug/L	5.0	1		10/29/11 05:01	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/29/11 05:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/29/11 05:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/29/11 05:01	75-35-4	
cis-1,2-Dichloroethene	**8.3**	ug/L	5.0	1		10/29/11 05:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/29/11 05:01	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		10/29/11 05:01	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		10/29/11 05:01	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/29/11 05:01	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		10/29/11 05:01	127-18-4	
Toluene	ND	ug/L	5.0	1		10/29/11 05:01	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/29/11 05:01	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		10/29/11 05:01	79-01-6	
Vinyl chloride	**48.3**	ug/L	2.0	1		10/29/11 05:01	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/29/11 05:01	1330-20-7	
Dibromofluoromethane (S)	94	%	83-123	1		10/29/11 05:01	1868-53-7	
4-Bromofluorobenzene (S)	103	%	72-125	1		10/29/11 05:01	460-00-4	
Toluene-d8 (S)	96	%	81-114	1		10/29/11 05:01	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5053952

Sample: Dup-2 **Lab ID: 5053952005** Collected: 10/19/11 08:00 Received: 10/20/11 10:30 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		10/29/11 05:34	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		10/29/11 05:34	56-23-5	
Chloroform	ND	ug/L	5.0	1		10/29/11 05:34	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/29/11 05:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/29/11 05:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/29/11 05:34	75-35-4	
cis-1,2-Dichloroethene	**8.5**	ug/L	5.0	1		10/29/11 05:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/29/11 05:34	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		10/29/11 05:34	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		10/29/11 05:34	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/29/11 05:34	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		10/29/11 05:34	127-18-4	
Toluene	ND	ug/L	5.0	1		10/29/11 05:34	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/29/11 05:34	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		10/29/11 05:34	79-01-6	
Vinyl chloride	**47.9**	ug/L	2.0	1		10/29/11 05:34	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/29/11 05:34	1330-20-7	
Dibromofluoromethane (S)	94	%	83-123	1		10/29/11 05:34	1868-53-7	
4-Bromofluorobenzene (S)	101	%	72-125	1		10/29/11 05:34	460-00-4	
Toluene-d8 (S)	97	%	81-114	1		10/29/11 05:34	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5053952

Sample: MMW-1S **Lab ID: 5053952006** Collected: 10/19/11 12:29 Received: 10/20/11 10:30 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		10/29/11 06:38	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		10/29/11 06:38	56-23-5	
Chloroform	ND	ug/L	5.0	1		10/29/11 06:38	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/29/11 06:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/29/11 06:38	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/29/11 06:38	75-35-4	
cis-1,2-Dichloroethene	**75.3**	ug/L	5.0	1		10/29/11 06:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/29/11 06:38	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		10/29/11 06:38	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		10/29/11 06:38	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/29/11 06:38	91-20-3	
Tetrachloroethene	**136**	ug/L	5.0	1		10/29/11 06:38	127-18-4	
Toluene	ND	ug/L	5.0	1		10/29/11 06:38	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/29/11 06:38	71-55-6	
Trichloroethene	**66.0**	ug/L	5.0	1		10/29/11 06:38	79-01-6	
Vinyl chloride	**14.3**	ug/L	2.0	1		10/29/11 06:38	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/29/11 06:38	1330-20-7	
Dibromofluoromethane (S)	92	%	83-123	1		10/29/11 06:38	1868-53-7	
4-Bromofluorobenzene (S)	103	%	72-125	1		10/29/11 06:38	460-00-4	
Toluene-d8 (S)	97	%	81-114	1		10/29/11 06:38	2037-26-5	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		10/20/11 15:03		
Nitrogen, Nitrite	ND	mg/L	0.10	1		10/20/11 15:03		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.7**	mg/L	1.0	1		11/01/11 11:51	7440-44-0	
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**56.2**	mg/L	12.5	1		11/01/11 10:02	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5053952

Sample: MMW-14D **Lab ID: 5053952007** Collected: 10/19/11 13:19 Received: 10/20/11 10:30 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		10/29/11 07:43	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		10/29/11 07:43	56-23-5	
Chloroform	ND	ug/L	5.0	1		10/29/11 07:43	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/29/11 07:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/29/11 07:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/29/11 07:43	75-35-4	
cis-1,2-Dichloroethene	**898**	ug/L	125	25		10/29/11 08:15	156-59-2	
trans-1,2-Dichloroethene	**11.1**	ug/L	5.0	1		10/29/11 07:43	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		10/29/11 07:43	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		10/29/11 07:43	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/29/11 07:43	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		10/29/11 07:43	127-18-4	
Toluene	ND	ug/L	5.0	1		10/29/11 07:43	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/29/11 07:43	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		10/29/11 07:43	79-01-6	
Vinyl chloride	**92.6**	ug/L	2.0	1		10/29/11 07:43	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/29/11 07:43	1330-20-7	
Dibromofluoromethane (S)	91	%	83-123	1		10/29/11 07:43	1868-53-7	
4-Bromofluorobenzene (S)	104	%	72-125	1		10/29/11 07:43	460-00-4	
Toluene-d8 (S)	97	%	81-114	1		10/29/11 07:43	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5053952

Sample: MMW-10S **Lab ID: 5053952008** Collected: 10/19/11 13:49 Received: 10/20/11 10:30 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		10/29/11 08:47	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		10/29/11 08:47	56-23-5	
Chloroform	ND	ug/L	5.0	1		10/29/11 08:47	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/29/11 08:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/29/11 08:47	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/29/11 08:47	75-35-4	
cis-1,2-Dichloroethene	**134**	ug/L	5.0	1		10/29/11 08:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/29/11 08:47	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		10/29/11 08:47	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		10/29/11 08:47	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/29/11 08:47	91-20-3	
Tetrachloroethene	**5.2**	ug/L	5.0	1		10/29/11 08:47	127-18-4	
Toluene	ND	ug/L	5.0	1		10/29/11 08:47	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/29/11 08:47	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		10/29/11 08:47	79-01-6	
Vinyl chloride	**198**	ug/L	2.0	1		10/29/11 08:47	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/29/11 08:47	1330-20-7	
Dibromofluoromethane (S)	92	%	83-123	1		10/29/11 08:47	1868-53-7	
4-Bromofluorobenzene (S)	103	%	72-125	1		10/29/11 08:47	460-00-4	
Toluene-d8 (S)	97	%	81-114	1		10/29/11 08:47	2037-26-5	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		10/20/11 15:04		
Nitrogen, Nitrite	ND	mg/L	0.10	1		10/20/11 15:04		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2.6**	mg/L	1.0	1		11/01/11 12:05	7440-44-0	
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**130**	mg/L	25.0	1		11/01/11 10:02	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5053952

Sample: Trip Blank **Lab ID: 5053952009** Collected: 10/19/11 08:00 Received: 10/20/11 10:30 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		10/29/11 09:52	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		10/29/11 09:52	56-23-5	
Chloroform	ND	ug/L	5.0	1		10/29/11 09:52	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/29/11 09:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/29/11 09:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/29/11 09:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/29/11 09:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/29/11 09:52	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		10/29/11 09:52	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		10/29/11 09:52	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/29/11 09:52	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		10/29/11 09:52	127-18-4	
Toluene	ND	ug/L	5.0	1		10/29/11 09:52	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/29/11 09:52	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		10/29/11 09:52	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		10/29/11 09:52	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/29/11 09:52	1330-20-7	
Dibromofluoromethane (S)	89	%	83-123	1		10/29/11 09:52	1868-53-7	
4-Bromofluorobenzene (S)	104	%	72-125	1		10/29/11 09:52	460-00-4	
Toluene-d8 (S)	97	%	81-114	1		10/29/11 09:52	2037-26-5	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5053952

QC Batch: MSV/36979 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5053952001, 5053952002, 5053952003, 5053952004, 5053952005, 5053952006, 5053952007, 5053952008, 5053952009

METHOD BLANK: 642765 Matrix: Water
Associated Lab Samples: 5053952001, 5053952002, 5053952003, 5053952004, 5053952005, 5053952006, 5053952007, 5053952008, 5053952009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	10/29/11 01:16	
1,1-Dichloroethane	ug/L	ND	5.0	10/29/11 01:16	
1,1-Dichloroethene	ug/L	ND	5.0	10/29/11 01:16	
1,2-Dichloroethane	ug/L	ND	5.0	10/29/11 01:16	
Benzene	ug/L	ND	5.0	10/29/11 01:16	
Carbon tetrachloride	ug/L	ND	5.0	10/29/11 01:16	
Chloroform	ug/L	ND	5.0	10/29/11 01:16	
cis-1,2-Dichloroethene	ug/L	ND	5.0	10/29/11 01:16	
Ethylbenzene	ug/L	ND	5.0	10/29/11 01:16	
Methylene chloride	ug/L	ND	5.0	10/29/11 01:16	
Naphthalene	ug/L	ND	5.0	10/29/11 01:16	
Tetrachloroethene	ug/L	ND	5.0	10/29/11 01:16	
Toluene	ug/L	ND	5.0	10/29/11 01:16	
trans-1,2-Dichloroethene	ug/L	ND	5.0	10/29/11 01:16	
Trichloroethene	ug/L	ND	5.0	10/29/11 01:16	
Vinyl chloride	ug/L	ND	2.0	10/29/11 01:16	
Xylene (Total)	ug/L	ND	10.0	10/29/11 01:16	
4-Bromofluorobenzene (S)	%	104	72-125	10/29/11 01:16	
Dibromofluoromethane (S)	%	93	83-123	10/29/11 01:16	
Toluene-d8 (S)	%	96	81-114	10/29/11 01:16	

LABORATORY CONTROL SAMPLE: 642766

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	44.1	88	69-126	
1,1-Dichloroethane	ug/L	50	46.1	92	70-127	
1,1-Dichloroethene	ug/L	50	48.8	98	75-145	
1,2-Dichloroethane	ug/L	50	52.1	104	71-127	
Benzene	ug/L	50	50.9	102	76-123	
Carbon tetrachloride	ug/L	50	40.4	81	65-125	
Chloroform	ug/L	50	51.3	103	73-122	
cis-1,2-Dichloroethene	ug/L	50	49.4	99	79-129	
Ethylbenzene	ug/L	50	53.5	107	75-120	
Methylene chloride	ug/L	50	47.3	95	61-138	
Naphthalene	ug/L	50	56.4	113	62-130	
Tetrachloroethene	ug/L	50	50.4	101	57-125	
Toluene	ug/L	50	49.2	98	72-124	
trans-1,2-Dichloroethene	ug/L	50	48.8	98	71-145	
Trichloroethene	ug/L	50	49.3	99	77-122	
Vinyl chloride	ug/L	50	52.5	105	61-146	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5053952

LABORATORY CONTROL SAMPLE: 642766

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	156	104	72-126	
4-Bromofluorobenzene (S)	%			105	72-125	
Dibromofluoromethane (S)	%			100	83-123	
Toluene-d8 (S)	%			98	81-114	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 642767 642768

Parameter	Units	5053952002 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	43.6	43.2	87	86	37-136	1	20	
1,1-Dichloroethane	ug/L	ND	50	50	46.0	45.2	92	90	47-138	2	20	
1,1-Dichloroethene	ug/L	ND	50	50	46.5	46.3	93	93	54-152	.4	20	
1,2-Dichloroethane	ug/L	ND	50	50	51.3	51.0	103	102	42-139	.7	20	
Benzene	ug/L	ND	50	50	51.1	50.7	102	101	52-134	.7	20	
Carbon tetrachloride	ug/L	ND	50	50	39.1	40.2	78	80	26-136	3	20	
Chloroform	ug/L	ND	50	50	51.1	50.4	102	101	50-134	1	20	
cis-1,2-Dichloroethene	ug/L	33.5	50	50	83.9	82.8	101	99	48-145	1	20	
Ethylbenzene	ug/L	ND	50	50	51.6	52.2	103	104	29-132	1	20	
Methylene chloride	ug/L	ND	50	50	46.4	45.2	93	90	47-141	3	20	
Naphthalene	ug/L	ND	50	50	46.8	46.2	94	92	40-124	1	20	
Tetrachloroethene	ug/L	ND	50	50	49.8	51.6	100	103	30-124	4	20	
Toluene	ug/L	ND	50	50	48.3	48.2	96	96	42-130	.1	20	
trans-1,2-Dichloroethene	ug/L	6.6	50	50	55.4	54.7	98	96	48-144	1	20	
Trichloroethene	ug/L	ND	50	50	48.4	48.3	97	97	44-130	.2	20	
Vinyl chloride	ug/L	446	50	50	505	493	118	94	45-159	2	20	
Xylene (Total)	ug/L	ND	150	150	150	153	100	102	29-131	2	20	
4-Bromofluorobenzene (S)	%						105	107	72-125		20	
Dibromofluoromethane (S)	%						100	102	83-123		20	
Toluene-d8 (S)	%						97	98	81-114		20	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5053952

QC Batch: WETA/7022 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 5053952001, 5053952002, 5053952003, 5053952006, 5053952008

METHOD BLANK: 639077 Matrix: Water
Associated Lab Samples: 5053952001, 5053952002, 5053952003, 5053952006, 5053952008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	10/20/11 14:56	
Nitrogen, Nitrite	mg/L	ND	0.10	10/20/11 14:56	

LABORATORY CONTROL SAMPLE: 639078

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2	2.0	102	90-110	
Nitrogen, Nitrite	mg/L	2	2.0	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 639079 639080

Parameter	Units	5053952001 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	100	99	90-110	.3	20	
Nitrogen, Nitrite	mg/L	ND	2	2	2.0	2.0	98	98	90-110	.08	20	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5053952

QC Batch: WETA/18104 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 5053952001, 5053952002, 5053952003, 5053952006, 5053952008

METHOD BLANK: 902080 Matrix: Water
Associated Lab Samples: 5053952001, 5053952002, 5053952003, 5053952006, 5053952008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	11/01/11 09:58	

LABORATORY CONTROL SAMPLE: 902081

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	4.8	95	80-120	

MATRIX SPIKE SAMPLE: 902082

Parameter	Units	5053912004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	9.5	5	15.8	126	80-120	M0

SAMPLE DUPLICATE: 902083

Parameter	Units	5053952001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	1.4	1.4	2	25	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5053952

QC Batch: WETA/7053 Analysis Method: ASTM D516-90,02
QC Batch Method: ASTM D516-90,02 Analysis Description: ASTM D516-9002 Sulfate Water
Associated Lab Samples: 5053952001, 5053952002, 5053952003, 5053952006, 5053952008

METHOD BLANK: 643009 Matrix: Water
Associated Lab Samples: 5053952001, 5053952002, 5053952003, 5053952006, 5053952008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	5.0	11/01/11 10:02	N2

LABORATORY CONTROL SAMPLE: 643010

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	21.9	110	90-110	N2

MATRIX SPIKE SAMPLE: 643011

Parameter	Units	5053952001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	84.2	200	311	113	90-110	M0,N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 643012 643013

Parameter	Units	5054083003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	164	200	200	399	382	118	109	90-110	4	20	E,M0, N2

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: MI Plaza M01046
Pace Project No.: 5053952

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.

LABORATORIES

PASI-I	Pace Analytical Services - Indianapolis
PASI-K	Pace Analytical Services - Kansas City

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
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.: 5053952

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5053952001	**MMW-P-02**	EPA 8260	MSV/36979		
5053952002	**MMW-P-03S**	EPA 8260	MSV/36979		
5053952003	**Dup-1**	EPA 8260	MSV/36979		
5053952004	**MMW-P-05**	EPA 8260	MSV/36979		
5053952005	**Dup-2**	EPA 8260	MSV/36979		
5053952006	**MMW-1S**	EPA 8260	MSV/36979		
5053952007	**MMW-14D**	EPA 8260	MSV/36979		
5053952008	**MMW-10S**	EPA 8260	MSV/36979		
5053952009	**Trip Blank**	EPA 8260	MSV/36979		
5053952001	**MMW-P-02**	EPA 353.2	WETA/7022		
5053952002	**MMW-P-03S**	EPA 353.2	WETA/7022		
5053952003	**Dup-1**	EPA 353.2	WETA/7022		
5053952006	**MMW-1S**	EPA 353.2	WETA/7022		
5053952008	**MMW-10S**	EPA 353.2	WETA/7022		
5053952001	**MMW-P-02**	SM 5310C	WETA/18104		
5053952002	**MMW-P-03S**	SM 5310C	WETA/18104		
5053952003	**Dup-1**	SM 5310C	WETA/18104		
5053952006	**MMW-1S**	SM 5310C	WETA/18104		
5053952008	**MMW-10S**	SM 5310C	WETA/18104		
5053952001	**MMW-P-02**	ASTM D516-90,02	WETA/7053		
5053952002	**MMW-P-03S**	ASTM D516-90,02	WETA/7053		
5053952003	**Dup-1**	ASTM D516-90,02	WETA/7053		
5053952006	**MMW-1S**	ASTM D516-90,02	WETA/7053		
5053952008	**MMW-10S**	ASTM D516-90,02	WETA/7053		

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 1 of 1

1469623

Section A Required Client Information:

Company: Mundell & Associates
Address: 110 S. Downey Ave
Indpls, IN
Email To:
Phone: 317-638-9060 Fax:
Requested Due Date/TAT: TAT

Section B Required Project Information:

Report To: Sarah Webb
Copy To:
Purchase Order No.:
Project Name: MI Plaza
Project Number: M01046

Section C Invoice Information:

Attention: Merle 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	S.L.Voc's 8260	TOC	Nitrate /nitrite	Sulfate	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MMW-P-02	WT	G			10-19-11	9:39a		5	1	1		3					X	X	X	X		505-3952 001
2	MMW-P-03S						10:26a		5	1	1		3					X	X	X	X		002
3	DUP-1								5	1	1		3					X	X	X	X		003
4	MMW-P-05						11:35a		5				3					X					004
5	DUP-2								5				3					X					005
6	MMW-15						12:29p		5	1	1		3					X	X	X	X		006
7	MMW-14D						1:09p		3				3					X					007
8	MMW-10S						1:49p		5	1	1		3					X	X	X	X		008
9	Trip Blank								3				3					X					009
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)
	A. Dammeyer	10/20/11	1030	John Tebbe	10/20/11	1030	1.6°C	Y	N	

MB 10/20/11 11:35a
Pace Courier w/ice

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Andy Dammeyer

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 10-19-11

*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 # 5053952

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

Cooler Temperature (Corrected, if applicable): 1.6°C Ice Visible in Sample Containers: ☐ yes ☑ no

Temp should be above freezing to 6°C

Date and Initials of person examining contents: MB 10/20/11

		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 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. 1 vial for MMW-14D = headspace MB
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: Date: 10/20/11

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

Sample Container Count

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LIENT: Mundell & Assoc.

)C PAGE 1 of 1
)C ID# 1469623

Project # 053592

ample Line

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

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

November 02, 2011

Ms. Sarah Webb
Mundell & Associates
110 South Downey Ave.
Indianapolis, IN 46219

RE: Project: MI Plaza / M01046
Pace Project No.: 5054017

Dear Ms. Webb:
Enclosed are the analytical results for sample(s) received by the laboratory on October 21, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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,

Tina Sayer

Tina Sayer

tina.sayer@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: MI Plaza / M01046
Pace Project No.: 5054017

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 100418
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana/NELAC Certification #: 04076
Ohio VAP: CL0065
West Virginia Certification #: 330

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 05-008-0
Illinois Certification #: 001191
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-08-TX
Utah Certification #: 9135995665

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SAMPLE SUMMARY

Project: MI Plaza / M01046
Pace Project No.: 5054017

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5054017001	**MMW-11S**	Water	10/21/11 11:58	10/21/11 15:51
5054017002	**MMW-11D**	Water	10/21/11 12:29	10/21/11 15:51
5054017003	**MMW-P-09D**	Water	10/21/11 13:05	10/21/11 15:51
5054017004	**MMW-C-01**	Water	10/21/11 13:33	10/21/11 15:51
5054017005	**MMW-P-10S**	Water	10/21/11 14:08	10/21/11 15:51
5054017006	**MMW-P-10D**	Water	10/21/11 08:00	10/21/11 15:51
5054017007	**TRIP BLANK**	Water	10/21/11 08:00	10/21/11 15:51

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SAMPLE ANALYTE COUNT

Project: MI Plaza / M01046
Pace Project No.: 5054017

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
5054017001	**MMW-11S**	EPA 8260	ALA	20	PASI-I
5054017002	**MMW-11D**	EPA 8260	ALA	20	PASI-I
5054017003	**MMW-P-09D**	EPA 8260	ALA	20	PASI-I
5054017004	**MMW-C-01**	EPA 8260	ALA	20	PASI-I
		EPA 353.2	DDM	2	PASI-I
		SM 5310C	LAJ	1	PASI-K
		ASTM D516-90,02	TPD	1	PASI-I
5054017005	**MMW-P-10S**	EPA 8260	ALA	20	PASI-I
		EPA 353.2	DDM	2	PASI-I
		SM 5310C	LAJ	1	PASI-K
		ASTM D516-90,02	TPD	1	PASI-I
5054017006	**MMW-P-10D**	EPA 8260	ALA	20	PASI-I
		EPA 353.2	DDM	2	PASI-I
		SM 5310C	LAJ	1	PASI-K
		ASTM D516-90,02	TPD	1	PASI-I
5054017007	**TRIP BLANK**	EPA 8260	ALA	20	PASI-I

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ANALYTICAL RESULTS

Project: MI Plaza / M01046
Pace Project No.: 5054017

Sample: MMW-11S **Lab ID: 5054017001** Collected: 10/21/11 11:58 Received: 10/21/11 15:51 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		10/31/11 15:00	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		10/31/11 15:00	56-23-5	
Chloroform	ND	ug/L	5.0	1		10/31/11 15:00	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/31/11 15:00	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/31/11 15:00	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/31/11 15:00	75-35-4	
cis-1,2-Dichloroethene	**33.9**	ug/L	5.0	1		10/31/11 15:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/31/11 15:00	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		10/31/11 15:00	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		10/31/11 15:00	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/31/11 15:00	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		10/31/11 15:00	127-18-4	
Toluene	ND	ug/L	5.0	1		10/31/11 15:00	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/31/11 15:00	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		10/31/11 15:00	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		10/31/11 15:00	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/31/11 15:00	1330-20-7	
Dibromofluoromethane (S)	92	%	83-123	1		10/31/11 15:00	1868-53-7	
4-Bromofluorobenzene (S)	104	%	72-125	1		10/31/11 15:00	460-00-4	
Toluene-d8 (S)	96	%	81-114	1		10/31/11 15:00	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza / M01046
Pace Project No.: 5054017

Sample: MMW-11D **Lab ID: 5054017002** Collected: 10/21/11 12:29 Received: 10/21/11 15:51 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		10/31/11 15:32	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		10/31/11 15:32	56-23-5	
Chloroform	ND	ug/L	5.0	1		10/31/11 15:32	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/31/11 15:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/31/11 15:32	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/31/11 15:32	75-35-4	
cis-1,2-Dichloroethene	**751**	ug/L	50.0	10		10/31/11 20:52	156-59-2	
trans-1,2-Dichloroethene	**22.7**	ug/L	5.0	1		10/31/11 15:32	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		10/31/11 15:32	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		10/31/11 15:32	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/31/11 15:32	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		10/31/11 15:32	127-18-4	
Toluene	ND	ug/L	5.0	1		10/31/11 15:32	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/31/11 15:32	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		10/31/11 15:32	79-01-6	
Vinyl chloride	**11.8**	ug/L	2.0	1		10/31/11 15:32	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/31/11 15:32	1330-20-7	
Dibromofluoromethane (S)	95	%	83-123	1		10/31/11 15:32	1868-53-7	
4-Bromofluorobenzene (S)	105	%	72-125	1		10/31/11 15:32	460-00-4	
Toluene-d8 (S)	95	%	81-114	1		10/31/11 15:32	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza / M01046
Pace Project No.: 5054017

Sample: MMW-P-09D **Lab ID: 5054017003** Collected: 10/21/11 13:05 Received: 10/21/11 15:51 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		10/31/11 16:04	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		10/31/11 16:04	56-23-5	
Chloroform	ND	ug/L	5.0	1		10/31/11 16:04	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/31/11 16:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/31/11 16:04	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/31/11 16:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/31/11 16:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/31/11 16:04	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		10/31/11 16:04	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		10/31/11 16:04	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/31/11 16:04	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		10/31/11 16:04	127-18-4	
Toluene	ND	ug/L	5.0	1		10/31/11 16:04	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/31/11 16:04	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		10/31/11 16:04	79-01-6	
Vinyl chloride	**71.9**	ug/L	2.0	1		10/31/11 16:04	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/31/11 16:04	1330-20-7	
Dibromofluoromethane (S)	91	%	83-123	1		10/31/11 16:04	1868-53-7	
4-Bromofluorobenzene (S)	104	%	72-125	1		10/31/11 16:04	460-00-4	
Toluene-d8 (S)	97	%	81-114	1		10/31/11 16:04	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza / M01046
Pace Project No.: 5054017

Sample: MMW-C-01 **Lab ID: 5054017004** Collected: 10/21/11 13:33 Received: 10/21/11 15:51 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		10/31/11 16:36	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		10/31/11 16:36	56-23-5	
Chloroform	ND	ug/L	5.0	1		10/31/11 16:36	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/31/11 16:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/31/11 16:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/31/11 16:36	75-35-4	
cis-1,2-Dichloroethene	**20.6**	ug/L	5.0	1		10/31/11 16:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/31/11 16:36	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		10/31/11 16:36	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		10/31/11 16:36	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/31/11 16:36	91-20-3	
Tetrachloroethene	**18.7**	ug/L	5.0	1		10/31/11 16:36	127-18-4	
Toluene	ND	ug/L	5.0	1		10/31/11 16:36	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/31/11 16:36	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		10/31/11 16:36	79-01-6	
Vinyl chloride	**58.8**	ug/L	2.0	1		10/31/11 16:36	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/31/11 16:36	1330-20-7	
Dibromofluoromethane (S)	93	%	83-123	1		10/31/11 16:36	1868-53-7	
4-Bromofluorobenzene (S)	104	%	72-125	1		10/31/11 16:36	460-00-4	
Toluene-d8 (S)	96	%	81-114	1		10/31/11 16:36	2037-26-5	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**0.79**	mg/L	0.10	1		10/21/11 16:37		
Nitrogen, Nitrite	ND	mg/L	0.10	1		10/21/11 16:37		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2.4**	mg/L	1.0	1		11/01/11 16:05	7440-44-0	
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**89.0**	mg/L	25.0	1		11/01/11 10:02	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza / M01046
Pace Project No.: 5054017

Sample: MMW-P-10S **Lab ID: 5054017005** Collected: 10/21/11 14:08 Received: 10/21/11 15:51 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		10/31/11 18:12	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		10/31/11 18:12	56-23-5	
Chloroform	ND	ug/L	5.0	1		10/31/11 18:12	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/31/11 18:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/31/11 18:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/31/11 18:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/31/11 18:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/31/11 18:12	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		10/31/11 18:12	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		10/31/11 18:12	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/31/11 18:12	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		10/31/11 18:12	127-18-4	
Toluene	ND	ug/L	5.0	1		10/31/11 18:12	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/31/11 18:12	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		10/31/11 18:12	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		10/31/11 18:12	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/31/11 18:12	1330-20-7	
Dibromofluoromethane (S)	92	%	83-123	1		10/31/11 18:12	1868-53-7	
4-Bromofluorobenzene (S)	104	%	72-125	1		10/31/11 18:12	460-00-4	
Toluene-d8 (S)	96	%	81-114	1		10/31/11 18:12	2037-26-5	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		10/21/11 16:40		
Nitrogen, Nitrite	ND	mg/L	0.10	1		10/21/11 16:40		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.7**	mg/L	1.0	1		11/01/11 16:19	7440-44-0	
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**13.9**	mg/L	5.0	1		11/01/11 10:02	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza / M01046
Pace Project No.: 5054017

Sample: MMW-P-10D **Lab ID: 5054017006** Collected: 10/21/11 08:00 Received: 10/21/11 15:51 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		10/31/11 19:16	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		10/31/11 19:16	56-23-5	
Chloroform	ND	ug/L	5.0	1		10/31/11 19:16	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/31/11 19:16	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/31/11 19:16	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/31/11 19:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/31/11 19:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/31/11 19:16	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		10/31/11 19:16	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		10/31/11 19:16	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/31/11 19:16	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		10/31/11 19:16	127-18-4	
Toluene	ND	ug/L	5.0	1		10/31/11 19:16	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/31/11 19:16	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		10/31/11 19:16	79-01-6	
Vinyl chloride	**444**	ug/L	20.0	10		10/31/11 19:48	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/31/11 19:16	1330-20-7	
Dibromofluoromethane (S)	93	%	83-123	1		10/31/11 19:16	1868-53-7	
4-Bromofluorobenzene (S)	103	%	72-125	1		10/31/11 19:16	460-00-4	
Toluene-d8 (S)	96	%	81-114	1		10/31/11 19:16	2037-26-5	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		10/21/11 16:41		
Nitrogen, Nitrite	ND	mg/L	0.10	1		10/21/11 16:41		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.7**	mg/L	1.0	1		11/01/11 17:02	7440-44-0	
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**55.0**	mg/L	12.5	1		11/01/11 10:02	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza / M01046
Pace Project No.: 5054017

Sample: TRIP BLANK **Lab ID: 5054017007** Collected: 10/21/11 08:00 Received: 10/21/11 15:51 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		10/31/11 20:20	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		10/31/11 20:20	56-23-5	
Chloroform	ND	ug/L	5.0	1		10/31/11 20:20	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/31/11 20:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/31/11 20:20	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/31/11 20:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/31/11 20:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/31/11 20:20	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		10/31/11 20:20	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		10/31/11 20:20	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/31/11 20:20	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		10/31/11 20:20	127-18-4	
Toluene	ND	ug/L	5.0	1		10/31/11 20:20	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/31/11 20:20	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		10/31/11 20:20	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		10/31/11 20:20	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/31/11 20:20	1330-20-7	
Dibromofluoromethane (S)	92	%	83-123	1		10/31/11 20:20	1868-53-7	
4-Bromofluorobenzene (S)	103	%	72-125	1		10/31/11 20:20	460-00-4	
Toluene-d8 (S)	95	%	81-114	1		10/31/11 20:20	2037-26-5	

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QUALITY CONTROL DATA

Project: MI Plaza / M01046
Pace Project No.: 5054017

QC Batch: MSV/37020 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5054017001, 5054017002, 5054017003, 5054017004, 5054017005, 5054017006, 5054017007

METHOD BLANK: 643171 Matrix: Water
Associated Lab Samples: 5054017001, 5054017002, 5054017003, 5054017004, 5054017005, 5054017006, 5054017007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	10/31/11 14:28	
1,1-Dichloroethane	ug/L	ND	5.0	10/31/11 14:28	
1,1-Dichloroethene	ug/L	ND	5.0	10/31/11 14:28	
1,2-Dichloroethane	ug/L	ND	5.0	10/31/11 14:28	
Benzene	ug/L	ND	5.0	10/31/11 14:28	
Carbon tetrachloride	ug/L	ND	5.0	10/31/11 14:28	
Chloroform	ug/L	ND	5.0	10/31/11 14:28	
cis-1,2-Dichloroethene	ug/L	ND	5.0	10/31/11 14:28	
Ethylbenzene	ug/L	ND	5.0	10/31/11 14:28	
Methylene chloride	ug/L	ND	5.0	10/31/11 14:28	
Naphthalene	ug/L	ND	5.0	10/31/11 14:28	
Tetrachloroethene	ug/L	ND	5.0	10/31/11 14:28	
Toluene	ug/L	ND	5.0	10/31/11 14:28	
trans-1,2-Dichloroethene	ug/L	ND	5.0	10/31/11 14:28	
Trichloroethene	ug/L	ND	5.0	10/31/11 14:28	
Vinyl chloride	ug/L	ND	2.0	10/31/11 14:28	
Xylene (Total)	ug/L	ND	10.0	10/31/11 14:28	
4-Bromofluorobenzene (S)	%	105	72-125	10/31/11 14:28	
Dibromofluoromethane (S)	%	94	83-123	10/31/11 14:28	
Toluene-d8 (S)	%	96	81-114	10/31/11 14:28	

LABORATORY CONTROL SAMPLE: 643172

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-Dichloroethane	ug/L	50	40.3	81	70-127	
1,1-Dichloroethene	ug/L	50	45.9	92	75-145	
1,2-Dichloroethane	ug/L	50	43.4	87	71-127	
Benzene	ug/L	50	45.2	90	76-123	
Carbon tetrachloride	ug/L	50	37.9	76	65-125	
Chloroform	ug/L	50	44.5	89	73-122	
cis-1,2-Dichloroethene	ug/L	50	43.4	87	79-129	
Ethylbenzene	ug/L	50	46.6	93	75-120	
Methylene chloride	ug/L	50	43.6	87	61-138	
Naphthalene	ug/L	50	44.5	89	62-130	
Tetrachloroethene	ug/L	50	45.9	92	57-125	
Toluene	ug/L	50	42.8	86	72-124	
trans-1,2-Dichloroethene	ug/L	50	44.2	88	71-145	
Trichloroethene	ug/L	50	44.0	88	77-122	
Vinyl chloride	ug/L	50	49.5	99	61-146	
Xylene (Total)	ug/L	150	137	91	72-126	

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QUALITY CONTROL DATA

Project: MI Plaza / M01046
Pace Project No.: 5054017

LABORATORY CONTROL SAMPLE: 643172

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			106	72-125	
Dibromofluoromethane (S)	%			101	83-123	
Toluene-d8 (S)	%			96	81-114	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 643173 643174

Parameter	Units	5054017004 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	45.3	45.8	91	92	37-136	1	20	
1,1-Dichloroethane	ug/L	ND	50	50	46.1	46.4	92	93	47-138	.5	20	
1,1-Dichloroethene	ug/L	ND	50	50	52.4	52.7	105	105	54-152	.6	20	
1,2-Dichloroethane	ug/L	ND	50	50	50.9	50.6	102	101	42-139	.5	20	
Benzene	ug/L	ND	50	50	51.6	51.7	103	103	52-134	.2	20	
Carbon tetrachloride	ug/L	ND	50	50	42.7	44.2	85	88	26-136	3	20	
Chloroform	ug/L	ND	50	50	51.1	51.5	102	103	50-134	.7	20	
cis-1,2-Dichloroethene	ug/L	20.6	50	50	70.0	70.2	99	99	48-145	.4	20	
Ethylbenzene	ug/L	ND	50	50	53.1	53.4	106	107	29-132	.5	20	
Methylene chloride	ug/L	ND	50	50	48.9	49.0	98	98	47-141	.3	20	
Naphthalene	ug/L	ND	50	50	51.2	49.4	102	99	40-124	4	20	
Tetrachloroethene	ug/L	18.7	50	50	70.6	70.5	104	104	30-124	.2	20	
Toluene	ug/L	ND	50	50	49.1	48.9	98	98	42-130	.5	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	51.6	51.1	101	101	48-144	.9	20	
Trichloroethene	ug/L	ND	50	50	51.6	51.4	98	97	44-130	.5	20	
Vinyl chloride	ug/L	58.8	50	50	111	111	104	104	45-159	.3	20	
Xylene (Total)	ug/L	ND	150	150	155	156	103	104	29-131	.9	20	
4-Bromofluorobenzene (S)	%						106	107	72-125		20	
Dibromofluoromethane (S)	%						99	99	83-123		20	
Toluene-d8 (S)	%						97	96	81-114		20	

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QUALITY CONTROL DATA

Project: MI Plaza / M01046
Pace Project No.: 5054017

QC Batch: WETA/7028 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 5054017004, 5054017005, 5054017006

METHOD BLANK: 639786 Matrix: Water
Associated Lab Samples: 5054017004, 5054017005, 5054017006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	10/21/11 16:35	
Nitrogen, Nitrite	mg/L	ND	0.10	10/21/11 16:35	

LABORATORY CONTROL SAMPLE: 639787

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2	2.0	99	90-110	
Nitrogen, Nitrite	mg/L	2	1.9	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 639788 639789

Parameter	Units	5054017004 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	0.79	2.5	2.5	3.2	3.3	96	101	90-110	3	20	
Nitrogen, Nitrite	mg/L	ND	2.5	2.5	2.4	2.4	95	95	90-110	.4	20	

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QUALITY CONTROL DATA

Project: MI Plaza / M01046
Pace Project No.: 5054017

QC Batch: WETA/18104 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 5054017004, 5054017005

METHOD BLANK: 902080 Matrix: Water
Associated Lab Samples: 5054017004, 5054017005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	11/01/11 09:58	

LABORATORY CONTROL SAMPLE: 902081

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	4.8	95	80-120	

MATRIX SPIKE SAMPLE: 902082

Parameter	Units	5053912004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	9.5	5	15.8	126	80-120	M0

SAMPLE DUPLICATE: 902083

Parameter	Units	5053952001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	1.4	1.4	2	25	

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QUALITY CONTROL DATA

Project: MI Plaza / M01046
Pace Project No.: 5054017

QC Batch: WETA/18105 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 5054017006

METHOD BLANK: 902085 Matrix: Water
Associated Lab Samples: 5054017006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	11/01/11 16:33	

LABORATORY CONTROL SAMPLE: 902086

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.0	99	80-120	

MATRIX SPIKE SAMPLE: 902088

Parameter	Units	5054083003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	2.6	5	7.6	101	80-120	

SAMPLE DUPLICATE: 902087

Parameter	Units	10173444001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	1.9	2.1	9	25	

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QUALITY CONTROL DATA

Project: MI Plaza / M01046
Pace Project No.: 5054017

QC Batch: WETA/7053 Analysis Method: ASTM D516-90,02
QC Batch Method: ASTM D516-90,02 Analysis Description: ASTM D516-9002 Sulfate Water
Associated Lab Samples: 5054017004, 5054017005, 5054017006

METHOD BLANK: 643009 Matrix: Water
Associated Lab Samples: 5054017004, 5054017005, 5054017006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	5.0	11/01/11 10:02	N2

LABORATORY CONTROL SAMPLE: 643010

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	21.9	110	90-110	N2

MATRIX SPIKE SAMPLE: 643011

Parameter	Units	5053952001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	84.2	200	311	113	90-110	M0,N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 643012 643013

Parameter	Units	5054083003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	164	200	200	399	382	118	109	90-110	4	20	E,M0, N2

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QUALIFIERS

Project: MI Plaza / M01046
Pace Project No.: 5054017

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.

LABORATORIES

PASI-I	Pace Analytical Services - Indianapolis
PASI-K	Pace Analytical Services - Kansas City

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
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.: 5054017

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5054017001	**MMW-11S**	EPA 8260	MSV/37020		
5054017002	**MMW-11D**	EPA 8260	MSV/37020		
5054017003	**MMW-P-09D**	EPA 8260	MSV/37020		
5054017004	**MMW-C-01**	EPA 8260	MSV/37020		
5054017005	**MMW-P-10S**	EPA 8260	MSV/37020		
5054017006	**MMW-P-10D**	EPA 8260	MSV/37020		
5054017007	**TRIP BLANK**	EPA 8260	MSV/37020		
5054017004	**MMW-C-01**	EPA 353.2	WETA/7028		
5054017005	**MMW-P-10S**	EPA 353.2	WETA/7028		
5054017006	**MMW-P-10D**	EPA 353.2	WETA/7028		
5054017004	**MMW-C-01**	SM 5310C	WETA/18104		
5054017005	**MMW-P-10S**	SM 5310C	WETA/18104		
5054017006	**MMW-P-10D**	SM 5310C	WETA/18105		
5054017004	**MMW-C-01**	ASTM D516-90,02	WETA/7053		
5054017005	**MMW-P-10S**	ASTM D516-90,02	WETA/7053		
5054017006	**MMW-P-10D**	ASTM D516-90,02	WETA/7053		

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November 08, 2011

Ms. Sarah Webb
Mundell & Associates
110 South Downey Ave.
Indianapolis, IN 46219

RE: Project: MI Plaza M01046
Pace Project No.: 5054083

Dear Ms. Webb:
Enclosed are the analytical results for sample(s) received by the laboratory on October 25, 2011. 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@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: MI Plaza M01046
Pace Project No.: 5054083

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 100418
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana/NELAC Certification #: 04076
Ohio VAP: CL0065
West Virginia Certification #: 330

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 05-008-0
Illinois Certification #: 001191
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-08-TX
Utah Certification #: 9135995665

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SAMPLE SUMMARY

Project: MI Plaza M01046
Pace Project No.: 5054083

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5054083001	**MMW-8S**	Water	10/24/11 09:40	10/25/11 10:22
5054083002	**MMW-P-08**	Water	10/24/11 10:16	10/25/11 10:22
5054083003	**MMW-9S**	Water	10/24/11 10:48	10/25/11 10:22
5054083004	**MMW-P-07**	Water	10/24/11 11:35	10/25/11 10:22
5054083005	**MMW-P-01**	Water	10/24/11 12:08	10/25/11 10:22
5054083006	**MMW-P-04**	Water	10/24/11 13:20	10/25/11 10:22
5054083007	**MMW-P-12S**	Water	10/24/11 14:53	10/25/11 10:22
5054083008	**MMW-P-12D**	Water	10/24/11 15:32	10/25/11 10:22
5054083009	**MMW-P-13S**	Water	10/24/11 16:15	10/25/11 10:22
5054083010	**MMW-P-13D**	Water	10/24/11 16:48	10/25/11 10:22
5054083011	**MMW-P-11S**	Water	10/24/11 17:30	10/25/11 10:22
5054083012	**MMW-P-06**	Water	10/24/11 12:45	10/25/11 10:22
5054083013	**MW-168D**	Water	10/24/11 14:14	10/25/11 10:22
5054083014	**EQ Blank**	Water	10/24/11 18:00	10/25/11 10:22
5054083015	**Trip Blank**	Water	10/24/11 08:00	10/25/11 10:22

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SAMPLE ANALYTE COUNT

Project: MI Plaza M01046
Pace Project No.: 5054083

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
5054083001	**MMW-8S**	EPA 8260	GRM	20	PASI-I
		EPA 353.2	ILP	2	PASI-I
		SM 5310C	LAJ	1	PASI-K
		ASTM D516-90,02	TPD	1	PASI-I
5054083002	**MMW-P-08**	EPA 8260	GRM	20	PASI-I
		EPA 353.2	ILP	2	PASI-I
		SM 5310C	LAJ	1	PASI-K
		ASTM D516-90,02	TPD	1	PASI-I
5054083003	**MMW-9S**	EPA 8260	GRM	20	PASI-I
		EPA 353.2	ILP	2	PASI-I
		SM 5310C	LAJ	1	PASI-K
		ASTM D516-90,02	TPD	1	PASI-I
5054083004	**MMW-P-07**	EPA 8260	GRM	20	PASI-I
		EPA 353.2	ILP	2	PASI-I
		SM 5310C	LAJ	1	PASI-K
		ASTM D516-90,02	TPD	1	PASI-I
5054083005	**MMW-P-01**	EPA 8260	GRM	20	PASI-I
		EPA 353.2	ILP	2	PASI-I
		SM 5310C	LAJ	1	PASI-K
		ASTM D516-90,02	TPD	1	PASI-I
5054083006	**MMW-P-04**	EPA 8260	GRM	20	PASI-I
		EPA 353.2	ILP	2	PASI-I
		SM 5310C	LAJ	1	PASI-K
		ASTM D516-90,02	TPD	1	PASI-I
5054083007	**MMW-P-12S**	EPA 8260	GRM	20	PASI-I
		EPA 353.2	ILP	2	PASI-I
		SM 5310C	LAJ	1	PASI-K
		ASTM D516-90,02	TPD	1	PASI-I
5054083008	**MMW-P-12D**	EPA 8260	GRM	20	PASI-I
		EPA 353.2	ILP	2	PASI-I
		SM 5310C	LAJ	1	PASI-K
		ASTM D516-90,02	TPD	1	PASI-I
5054083009	**MMW-P-13S**	EPA 8260	GRM	20	PASI-I
		EPA 353.2	ILP	2	PASI-I
		SM 5310C	LAJ	1	PASI-K
		ASTM D516-90,02	TPD	1	PASI-I
5054083010	**MMW-P-13D**	EPA 8260	GRM	20	PASI-I

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SAMPLE ANALYTE COUNT

Project: MI Plaza M01046
Pace Project No.: 5054083

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 353.2	ILP	2	PASI-I
		SM 5310C	LAJ	1	PASI-K
		ASTM D516-90,02	TPD	1	PASI-I
5054083011	**MMW-P-11S**	EPA 8260	GRM	20	PASI-I
		EPA 353.2	ILP	2	PASI-I
		SM 5310C	LAJ	1	PASI-K
		ASTM D516-90,02	TPD	1	PASI-I
5054083012	**MMW-P-06**	EPA 8260	GRM	20	PASI-I
5054083013	**MW-168D**	EPA 8260	GRM	20	PASI-I
5054083014	**EQ Blank**	EPA 8260	GRM	20	PASI-I
5054083015	**Trip Blank**	EPA 8260	GRM	20	PASI-I

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5054083

Sample: MMW-8S **Lab ID: 5054083001** Collected: 10/24/11 09:40 Received: 10/25/11 10:22 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		10/29/11 06:26	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		10/29/11 06:26	56-23-5	
Chloroform	ND	ug/L	5.0	1		10/29/11 06:26	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/29/11 06:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/29/11 06:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/29/11 06:26	75-35-4	
cis-1,2-Dichloroethene	**9.9**	ug/L	5.0	1		10/29/11 06:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/29/11 06:26	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		10/29/11 06:26	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		10/29/11 06:26	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/29/11 06:26	91-20-3	
Tetrachloroethene	**7.9**	ug/L	5.0	1		10/29/11 06:26	127-18-4	
Toluene	ND	ug/L	5.0	1		10/29/11 06:26	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/29/11 06:26	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		10/29/11 06:26	79-01-6	
Vinyl chloride	**200**	ug/L	2.0	1		10/29/11 06:26	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/29/11 06:26	1330-20-7	
Dibromofluoromethane (S)	103	%	83-123	1		10/29/11 06:26	1868-53-7	
4-Bromofluorobenzene (S)	103	%	72-125	1		10/29/11 06:26	460-00-4	
Toluene-d8 (S)	102	%	81-114	1		10/29/11 06:26	2037-26-5	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		10/25/11 15:24		
Nitrogen, Nitrite	ND	mg/L	0.10	1		10/25/11 15:24		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.4**	mg/L	1.0	1		11/01/11 18:41	7440-44-0	
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**250**	mg/L	50.0	1		11/01/11 10:02	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5054083

Sample: MMW-P-08 **Lab ID: 5054083002** Collected: 10/24/11 10:16 Received: 10/25/11 10:22 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		10/29/11 07:00	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		10/29/11 07:00	56-23-5	
Chloroform	ND	ug/L	5.0	1		10/29/11 07:00	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/29/11 07:00	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/29/11 07:00	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/29/11 07:00	75-35-4	
cis-1,2-Dichloroethene	**32.5**	ug/L	5.0	1		10/29/11 07:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/29/11 07:00	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		10/29/11 07:00	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		10/29/11 07:00	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/29/11 07:00	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		10/29/11 07:00	127-18-4	
Toluene	ND	ug/L	5.0	1		10/29/11 07:00	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/29/11 07:00	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		10/29/11 07:00	79-01-6	
Vinyl chloride	**136**	ug/L	2.0	1		10/29/11 07:00	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/29/11 07:00	1330-20-7	
Dibromofluoromethane (S)	110	%	83-123	1		10/29/11 07:00	1868-53-7	
4-Bromofluorobenzene (S)	101	%	72-125	1		10/29/11 07:00	460-00-4	
Toluene-d8 (S)	99	%	81-114	1		10/29/11 07:00	2037-26-5	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		10/25/11 15:25		
Nitrogen, Nitrite	ND	mg/L	0.10	1		10/25/11 15:25		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2.9**	mg/L	1.0	1		11/01/11 18:55	7440-44-0	
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**59.0**	mg/L	25.0	1		11/01/11 10:02	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5054083

Sample: MMW-9S **Lab ID: 5054083003** Collected: 10/24/11 10:48 Received: 10/25/11 10:22 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		10/29/11 07:33	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		10/29/11 07:33	56-23-5	
Chloroform	ND	ug/L	5.0	1		10/29/11 07:33	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/29/11 07:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/29/11 07:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/29/11 07:33	75-35-4	
cis-1,2-Dichloroethene	**2330**	ug/L	50.0	10		10/29/11 08:07	156-59-2	
trans-1,2-Dichloroethene	**92.8**	ug/L	5.0	1		10/29/11 07:33	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		10/29/11 07:33	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		10/29/11 07:33	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/29/11 07:33	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		10/29/11 07:33	127-18-4	
Toluene	ND	ug/L	5.0	1		10/29/11 07:33	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/29/11 07:33	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		10/29/11 07:33	79-01-6	
Vinyl chloride	**694**	ug/L	20.0	10		10/29/11 08:07	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/29/11 07:33	1330-20-7	
Dibromofluoromethane (S)	111	%	83-123	1		10/29/11 07:33	1868-53-7	
4-Bromofluorobenzene (S)	106	%	72-125	1		10/29/11 07:33	460-00-4	
Toluene-d8 (S)	104	%	81-114	1		10/29/11 07:33	2037-26-5	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		10/25/11 15:26		
Nitrogen, Nitrite	ND	mg/L	0.10	1		10/25/11 15:26		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2.6**	mg/L	1.0	1		11/01/11 19:09	7440-44-0	
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**164**	mg/L	50.0	1		11/01/11 10:02	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5054083

Sample: MMW-P-07 **Lab ID: 5054083004** Collected: 10/24/11 11:35 Received: 10/25/11 10:22 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		10/29/11 08:41	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		10/29/11 08:41	56-23-5	
Chloroform	ND	ug/L	5.0	1		10/29/11 08:41	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/29/11 08:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/29/11 08:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/29/11 08:41	75-35-4	
cis-1,2-Dichloroethene	**37.3**	ug/L	5.0	1		10/29/11 08:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/29/11 08:41	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		10/29/11 08:41	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		10/29/11 08:41	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/29/11 08:41	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		10/29/11 08:41	127-18-4	
Toluene	ND	ug/L	5.0	1		10/29/11 08:41	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/29/11 08:41	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		10/29/11 08:41	79-01-6	
Vinyl chloride	**388**	ug/L	20.0	10		10/29/11 09:14	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/29/11 08:41	1330-20-7	
Dibromofluoromethane (S)	115	%	83-123	1		10/29/11 08:41	1868-53-7	
4-Bromofluorobenzene (S)	106	%	72-125	1		10/29/11 08:41	460-00-4	
Toluene-d8 (S)	97	%	81-114	1		10/29/11 08:41	2037-26-5	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		10/25/11 15:30		
Nitrogen, Nitrite	ND	mg/L	0.10	1		10/25/11 15:30		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2.1**	mg/L	1.0	1		11/01/11 19:37	7440-44-0	
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**31.6**	mg/L	12.5	1		11/01/11 10:02	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5054083

Sample: MMW-P-01 **Lab ID: 5054083005** Collected: 10/24/11 12:08 Received: 10/25/11 10:22 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		10/29/11 09:48	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		10/29/11 09:48	56-23-5	
Chloroform	ND	ug/L	5.0	1		10/29/11 09:48	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/29/11 09:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/29/11 09:48	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/29/11 09:48	75-35-4	
cis-1,2-Dichloroethene	**839**	ug/L	50.0	10		10/29/11 10:21	156-59-2	
trans-1,2-Dichloroethene	**9.1**	ug/L	5.0	1		10/29/11 09:48	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		10/29/11 09:48	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		10/29/11 09:48	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/29/11 09:48	91-20-3	
Tetrachloroethene	**23.4**	ug/L	5.0	1		10/29/11 09:48	127-18-4	
Toluene	ND	ug/L	5.0	1		10/29/11 09:48	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/29/11 09:48	71-55-6	
Trichloroethene	**10.0**	ug/L	5.0	1		10/29/11 09:48	79-01-6	
Vinyl chloride	**1410**	ug/L	20.0	10		10/29/11 10:21	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/29/11 09:48	1330-20-7	
Dibromofluoromethane (S)	104	%	83-123	1		10/29/11 09:48	1868-53-7	
4-Bromofluorobenzene (S)	98	%	72-125	1		10/29/11 09:48	460-00-4	
Toluene-d8 (S)	103	%	81-114	1		10/29/11 09:48	2037-26-5	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		10/25/11 15:31		
Nitrogen, Nitrite	ND	mg/L	0.10	1		10/25/11 15:31		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2.6**	mg/L	1.0	1		11/01/11 19:51	7440-44-0	
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**81.5**	mg/L	25.0	1		11/01/11 10:02	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5054083

Sample: MMW-P-04 **Lab ID: 5054083006** Collected: 10/24/11 13:20 Received: 10/25/11 10:22 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		10/29/11 10:55	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		10/29/11 10:55	56-23-5	
Chloroform	ND	ug/L	5.0	1		10/29/11 10:55	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/29/11 10:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/29/11 10:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/29/11 10:55	75-35-4	
cis-1,2-Dichloroethene	**14.8**	ug/L	5.0	1		10/29/11 10:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/29/11 10:55	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		10/29/11 10:55	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		10/29/11 10:55	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/29/11 10:55	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		10/29/11 10:55	127-18-4	
Toluene	ND	ug/L	5.0	1		10/29/11 10:55	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/29/11 10:55	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		10/29/11 10:55	79-01-6	
Vinyl chloride	**68.7**	ug/L	2.0	1		10/29/11 10:55	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/29/11 10:55	1330-20-7	
Dibromofluoromethane (S)	109	%	83-123	1		10/29/11 10:55	1868-53-7	
4-Bromofluorobenzene (S)	105	%	72-125	1		10/29/11 10:55	460-00-4	
Toluene-d8 (S)	99	%	81-114	1		10/29/11 10:55	2037-26-5	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		10/25/11 15:32		
Nitrogen, Nitrite	ND	mg/L	0.10	1		10/25/11 15:32		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**11.6**	mg/L	1.0	1		11/01/11 20:06	7440-44-0	
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**39.8**	mg/L	12.5	1		11/01/11 10:02	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5054083

Sample: MMW-P-12S **Lab ID: 5054083007** Collected: 10/24/11 14:53 Received: 10/25/11 10:22 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		10/29/11 11:29	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		10/29/11 11:29	56-23-5	
Chloroform	ND	ug/L	5.0	1		10/29/11 11:29	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/29/11 11:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/29/11 11:29	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/29/11 11:29	75-35-4	
cis-1,2-Dichloroethene	**642**	ug/L	50.0	10		11/03/11 04:31	156-59-2	
trans-1,2-Dichloroethene	**19.2**	ug/L	5.0	1		10/29/11 11:29	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		10/29/11 11:29	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		10/29/11 11:29	75-09-2	
Naphthalene	ND	ug/L	5.0	1		10/29/11 11:29	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		10/29/11 11:29	127-18-4	
Toluene	ND	ug/L	5.0	1		10/29/11 11:29	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/29/11 11:29	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		10/29/11 11:29	79-01-6	
Vinyl chloride	**60.7**	ug/L	2.0	1		10/29/11 11:29	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		10/29/11 11:29	1330-20-7	
Dibromofluoromethane (S)	107	%	83-123	1		10/29/11 11:29	1868-53-7	
4-Bromofluorobenzene (S)	103	%	72-125	1		10/29/11 11:29	460-00-4	
Toluene-d8 (S)	100	%	81-114	1		10/29/11 11:29	2037-26-5	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		10/25/11 15:37		
Nitrogen, Nitrite	ND	mg/L	0.10	1		10/25/11 15:37		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.4**	mg/L	1.0	1		11/01/11 20:20	7440-44-0	
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**156**	mg/L	50.0	1		11/01/11 10:02	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5054083

Sample: MMW-P-12D **Lab ID: 5054083008** Collected: 10/24/11 15:32 Received: 10/25/11 10:22 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		11/02/11 00:09	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		11/02/11 00:09	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/02/11 00:09	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/02/11 00:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/02/11 00:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/02/11 00:09	75-35-4	
cis-1,2-Dichloroethene	**644**	ug/L	50.0	10		11/03/11 05:04	156-59-2	
trans-1,2-Dichloroethene	**14.2**	ug/L	5.0	1		11/02/11 00:09	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		11/02/11 00:09	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		11/02/11 00:09	75-09-2	
Naphthalene	ND	ug/L	5.0	1		11/02/11 00:09	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/02/11 00:09	127-18-4	
Toluene	ND	ug/L	5.0	1		11/02/11 00:09	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/02/11 00:09	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		11/02/11 00:09	79-01-6	
Vinyl chloride	**71.3**	ug/L	2.0	1		11/02/11 00:09	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		11/02/11 00:09	1330-20-7	
Dibromofluoromethane (S)	98	%	83-123	1		11/02/11 00:09	1868-53-7	
4-Bromofluorobenzene (S)	96	%	72-125	1		11/02/11 00:09	460-00-4	
Toluene-d8 (S)	95	%	81-114	1		11/02/11 00:09	2037-26-5	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		10/25/11 15:38		
Nitrogen, Nitrite	ND	mg/L	0.10	1		10/25/11 15:38		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.9**	mg/L	1.0	1		11/01/11 20:34	7440-44-0	
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**124**	mg/L	50.0	1		11/01/11 10:02	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5054083

Sample: MMW-P-13S **Lab ID: 5054083009** Collected: 10/24/11 16:15 Received: 10/25/11 10:22 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		11/02/11 00:42	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		11/02/11 00:42	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/02/11 00:42	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/02/11 00:42	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/02/11 00:42	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/02/11 00:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/02/11 00:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/02/11 00:42	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		11/02/11 00:42	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		11/02/11 00:42	75-09-2	
Naphthalene	ND	ug/L	5.0	1		11/02/11 00:42	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/02/11 00:42	127-18-4	
Toluene	ND	ug/L	5.0	1		11/02/11 00:42	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/02/11 00:42	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		11/02/11 00:42	79-01-6	
Vinyl chloride	**19.8**	ug/L	2.0	1		11/02/11 00:42	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		11/02/11 00:42	1330-20-7	
Dibromofluoromethane (S)	99	%	83-123	1		11/02/11 00:42	1868-53-7	
4-Bromofluorobenzene (S)	101	%	72-125	1		11/02/11 00:42	460-00-4	
Toluene-d8 (S)	102	%	81-114	1		11/02/11 00:42	2037-26-5	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**0.75**	mg/L	0.10	1		10/25/11 15:39		
Nitrogen, Nitrite	ND	mg/L	0.10	1		10/25/11 15:39		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.4**	mg/L	1.0	1		11/01/11 21:16	7440-44-0	
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**195**	mg/L	50.0	1		11/01/11 10:02	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5054083

Sample: MMW-P-13D **Lab ID: 5054083010** Collected: 10/24/11 16:48 Received: 10/25/11 10:22 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		11/02/11 01:16	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		11/02/11 01:16	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/02/11 01:16	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/02/11 01:16	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/02/11 01:16	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/02/11 01:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/02/11 01:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/02/11 01:16	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		11/02/11 01:16	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		11/02/11 01:16	75-09-2	
Naphthalene	ND	ug/L	5.0	1		11/02/11 01:16	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/02/11 01:16	127-18-4	
Toluene	ND	ug/L	5.0	1		11/02/11 01:16	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/02/11 01:16	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		11/02/11 01:16	79-01-6	
Vinyl chloride	**116**	ug/L	2.0	1		11/02/11 01:16	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		11/02/11 01:16	1330-20-7	
Dibromofluoromethane (S)	98	%	83-123	1		11/02/11 01:16	1868-53-7	
4-Bromofluorobenzene (S)	101	%	72-125	1		11/02/11 01:16	460-00-4	
Toluene-d8 (S)	101	%	81-114	1		11/02/11 01:16	2037-26-5	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		10/25/11 15:40		
Nitrogen, Nitrite	ND	mg/L	0.10	1		10/25/11 15:40		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.8**	mg/L	1.0	1		11/01/11 21:31	7440-44-0	
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**131**	mg/L	25.0	1		11/01/11 10:02	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5054083

Sample: MMW-P-11S **Lab ID: 5054083011** Collected: 10/24/11 17:30 Received: 10/25/11 10:22 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		11/02/11 01:49	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		11/02/11 01:49	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/02/11 01:49	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/02/11 01:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/02/11 01:49	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/02/11 01:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/02/11 01:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/02/11 01:49	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		11/02/11 01:49	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		11/02/11 01:49	75-09-2	
Naphthalene	ND	ug/L	5.0	1		11/02/11 01:49	91-20-3	
Tetrachloroethene	**592**	ug/L	50.0	10		11/03/11 05:38	127-18-4	
Toluene	ND	ug/L	5.0	1		11/02/11 01:49	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/02/11 01:49	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		11/02/11 01:49	79-01-6	
Vinyl chloride	**2.5**	ug/L	2.0	1		11/02/11 01:49	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		11/02/11 01:49	1330-20-7	
Dibromofluoromethane (S)	98	%	83-123	1		11/02/11 01:49	1868-53-7	
4-Bromofluorobenzene (S)	98	%	72-125	1		11/02/11 01:49	460-00-4	
Toluene-d8 (S)	99	%	81-114	1		11/02/11 01:49	2037-26-5	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		10/25/11 15:41		
Nitrogen, Nitrite	ND	mg/L	0.10	1		10/25/11 15:41		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.7**	mg/L	1.0	1		11/01/11 21:45	7440-44-0	
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**166**	mg/L	50.0	1		11/01/11 10:02	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5054083

Sample: MMW-P-06 **Lab ID: 5054083012** Collected: 10/24/11 12:45 Received: 10/25/11 10:22 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	50.0	10		11/02/11 02:23	71-43-2	
Carbon tetrachloride	ND	ug/L	50.0	10		11/02/11 02:23	56-23-5	
Chloroform	ND	ug/L	50.0	10		11/02/11 02:23	67-66-3	
1,1-Dichloroethane	ND	ug/L	50.0	10		11/02/11 02:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	50.0	10		11/02/11 02:23	107-06-2	
1,1-Dichloroethene	ND	ug/L	50.0	10		11/02/11 02:23	75-35-4	
cis-1,2-Dichloroethene	**10100**	ug/L	500	100		11/02/11 02:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	50.0	10		11/02/11 02:23	156-60-5	
Ethylbenzene	ND	ug/L	50.0	10		11/02/11 02:23	100-41-4	
Methylene chloride	ND	ug/L	50.0	10		11/02/11 02:23	75-09-2	
Naphthalene	ND	ug/L	50.0	10		11/02/11 02:23	91-20-3	
Tetrachloroethene	ND	ug/L	50.0	10		11/02/11 02:23	127-18-4	
Toluene	ND	ug/L	50.0	10		11/02/11 02:23	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	50.0	10		11/02/11 02:23	71-55-6	
Trichloroethene	ND	ug/L	50.0	10		11/02/11 02:23	79-01-6	
Vinyl chloride	**11300**	ug/L	200	100		11/02/11 02:56	75-01-4	
Xylene (Total)	ND	ug/L	100	10		11/02/11 02:23	1330-20-7	
Dibromofluoromethane (S)	97	%	83-123	10		11/02/11 02:23	1868-53-7	D4
4-Bromofluorobenzene (S)	95	%	72-125	10		11/02/11 02:23	460-00-4	
Toluene-d8 (S)	96	%	81-114	10		11/02/11 02:23	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5054083

Sample: MW-168D **Lab ID: 5054083013** Collected: 10/24/11 14:14 Received: 10/25/11 10:22 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		11/02/11 03:30	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		11/02/11 03:30	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/02/11 03:30	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/02/11 03:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/02/11 03:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/02/11 03:30	75-35-4	
cis-1,2-Dichloroethene	**8.9**	ug/L	5.0	1		11/02/11 03:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/02/11 03:30	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		11/02/11 03:30	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		11/02/11 03:30	75-09-2	
Naphthalene	ND	ug/L	5.0	1		11/02/11 03:30	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/02/11 03:30	127-18-4	
Toluene	ND	ug/L	5.0	1		11/02/11 03:30	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/02/11 03:30	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		11/02/11 03:30	79-01-6	
Vinyl chloride	**137**	ug/L	2.0	1		11/02/11 03:30	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		11/02/11 03:30	1330-20-7	
Dibromofluoromethane (S)	98	%	83-123	1		11/02/11 03:30	1868-53-7	
4-Bromofluorobenzene (S)	97	%	72-125	1		11/02/11 03:30	460-00-4	
Toluene-d8 (S)	98	%	81-114	1		11/02/11 03:30	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5054083

Sample: EQ Blank **Lab ID: 5054083014** Collected: 10/24/11 18:00 Received: 10/25/11 10:22 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		11/02/11 04:03	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		11/02/11 04:03	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/02/11 04:03	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/02/11 04:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/02/11 04:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/02/11 04:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/02/11 04:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/02/11 04:03	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		11/02/11 04:03	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		11/02/11 04:03	75-09-2	
Naphthalene	ND	ug/L	5.0	1		11/02/11 04:03	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/02/11 04:03	127-18-4	
Toluene	ND	ug/L	5.0	1		11/02/11 04:03	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/02/11 04:03	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		11/02/11 04:03	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		11/02/11 04:03	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		11/02/11 04:03	1330-20-7	
Dibromofluoromethane (S)	98	%	83-123	1		11/02/11 04:03	1868-53-7	
4-Bromofluorobenzene (S)	100	%	72-125	1		11/02/11 04:03	460-00-4	
Toluene-d8 (S)	100	%	81-114	1		11/02/11 04:03	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5054083

Sample: Trip Blank **Lab ID: 5054083015** Collected: 10/24/11 08:00 Received: 10/25/11 10:22 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		11/02/11 04:37	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		11/02/11 04:37	56-23-5	
Chloroform	ND	ug/L	5.0	1		11/02/11 04:37	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		11/02/11 04:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		11/02/11 04:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		11/02/11 04:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		11/02/11 04:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		11/02/11 04:37	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		11/02/11 04:37	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		11/02/11 04:37	75-09-2	
Naphthalene	ND	ug/L	5.0	1		11/02/11 04:37	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		11/02/11 04:37	127-18-4	
Toluene	ND	ug/L	5.0	1		11/02/11 04:37	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		11/02/11 04:37	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		11/02/11 04:37	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		11/02/11 04:37	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		11/02/11 04:37	1330-20-7	
Dibromofluoromethane (S)	99	%	83-123	1		11/02/11 04:37	1868-53-7	
4-Bromofluorobenzene (S)	102	%	72-125	1		11/02/11 04:37	460-00-4	
Toluene-d8 (S)	101	%	81-114	1		11/02/11 04:37	2037-26-5	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5054083

QC Batch: MSV/36999 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5054083001, 5054083002, 5054083003, 5054083004, 5054083005, 5054083006, 5054083007

METHOD BLANK: 642918 Matrix: Water
Associated Lab Samples: 5054083001, 5054083002, 5054083003, 5054083004, 5054083005, 5054083006, 5054083007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	10/29/11 02:31	
1,1-Dichloroethane	ug/L	ND	5.0	10/29/11 02:31	
1,1-Dichloroethene	ug/L	ND	5.0	10/29/11 02:31	
1,2-Dichloroethane	ug/L	ND	5.0	10/29/11 02:31	
Benzene	ug/L	ND	5.0	10/29/11 02:31	
Carbon tetrachloride	ug/L	ND	5.0	10/29/11 02:31	
Chloroform	ug/L	ND	5.0	10/29/11 02:31	
cis-1,2-Dichloroethene	ug/L	ND	5.0	10/29/11 02:31	
Ethylbenzene	ug/L	ND	5.0	10/29/11 02:31	
Methylene chloride	ug/L	ND	5.0	10/29/11 02:31	
Naphthalene	ug/L	5.8	5.0	10/29/11 02:31	B-
Tetrachloroethene	ug/L	ND	5.0	10/29/11 02:31	
Toluene	ug/L	ND	5.0	10/29/11 02:31	
trans-1,2-Dichloroethene	ug/L	ND	5.0	10/29/11 02:31	
Trichloroethene	ug/L	ND	5.0	10/29/11 02:31	
Vinyl chloride	ug/L	ND	2.0	10/29/11 02:31	
Xylene (Total)	ug/L	ND	10.0	10/29/11 02:31	
4-Bromofluorobenzene (S)	%	107	72-125	10/29/11 02:31	
Dibromofluoromethane (S)	%	114	83-123	10/29/11 02:31	
Toluene-d8 (S)	%	101	81-114	10/29/11 02:31	

LABORATORY CONTROL SAMPLE: 642919

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	60.6	121	69-126	
1,1-Dichloroethane	ug/L	50	57.1	114	70-127	
1,1-Dichloroethene	ug/L	50	57.5	115	75-145	
1,2-Dichloroethane	ug/L	50	55.1	110	71-127	
Benzene	ug/L	50	55.8	112	76-123	
Carbon tetrachloride	ug/L	50	60.7	121	65-125	
Chloroform	ug/L	50	52.1	104	73-122	
cis-1,2-Dichloroethene	ug/L	50	58.5	117	79-129	
Ethylbenzene	ug/L	50	59.9	120	75-120	
Methylene chloride	ug/L	50	56.3	113	61-138	
Naphthalene	ug/L	50	54.3	109	62-130	
Tetrachloroethene	ug/L	50	57.9	116	57-125	
Toluene	ug/L	50	58.2	116	72-124	
trans-1,2-Dichloroethene	ug/L	50	60.7	121	71-145	
Trichloroethene	ug/L	50	59.8	120	77-122	
Vinyl chloride	ug/L	50	50.4	101	61-146	
Xylene (Total)	ug/L	150	169	113	72-126	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5054083

LABORATORY CONTROL SAMPLE: 642919

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			101	72-125	
Dibromofluoromethane (S)	%			93	83-123	
Toluene-d8 (S)	%			103	81-114	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 642920 642921

Parameter	Units	5054083003 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	45.5	39.8	91	80	37-136	13	20	
1,1-Dichloroethane	ug/L	ND	50	50	44.2	40.1	88	80	47-138	10	20	
1,1-Dichloroethene	ug/L	ND	50	50	48.4	42.7	97	85	54-152	13	20	
1,2-Dichloroethane	ug/L	ND	50	50	38.6	36.5	77	73	42-139	6	20	
Benzene	ug/L	ND	50	50	41.6	40.5	83	81	52-134	3	20	
Carbon tetrachloride	ug/L	ND	50	50	44.1	39.7	88	79	26-136	10	20	
Chloroform	ug/L	ND	50	50	40.0	36.5	80	73	50-134	9	20	
cis-1,2-Dichloroethene	ug/L	2330	50	50	2040	1990	-584	-694	48-145	3	20	M0
Ethylbenzene	ug/L	ND	50	50	44.9	41.6	90	83	29-132	8	20	
Methylene chloride	ug/L	ND	50	50	44.1	38.3	88	77	47-141	14	20	
Naphthalene	ug/L	ND	50	50	36.7	34.7	73	69	40-124	6	20	
Tetrachloroethene	ug/L	ND	50	50	49.8	45.4	97	88	30-124	9	20	
Toluene	ug/L	ND	50	50	46.2	42.0	92	84	42-130	9	20	
trans-1,2-Dichloroethene	ug/L	92.8	50	50	130	115	74	45	48-144	12	20	M0
Trichloroethene	ug/L	ND	50	50	48.0	42.4	95	83	44-130	12	20	
Vinyl chloride	ug/L	694	50	50	780	776	173	166	45-159	.5	20	M0
Xylene (Total)	ug/L	ND	150	150	126	118	84	79	29-131	6	20	
4-Bromofluorobenzene (S)	%						102	100	72-125		20	
Dibromofluoromethane (S)	%						93	90	83-123		20	
Toluene-d8 (S)	%						104	105	81-114		20	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5054083

QC Batch: MSV/37053 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5054083008, 5054083009, 5054083010, 5054083011, 5054083012, 5054083013, 5054083014, 5054083015

METHOD BLANK: 643535 Matrix: Water
Associated Lab Samples: 5054083008, 5054083009, 5054083010, 5054083011, 5054083012, 5054083013, 5054083014, 5054083015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	11/01/11 23:35	
1,1-Dichloroethane	ug/L	ND	5.0	11/01/11 23:35	
1,1-Dichloroethene	ug/L	ND	5.0	11/01/11 23:35	
1,2-Dichloroethane	ug/L	ND	5.0	11/01/11 23:35	
Benzene	ug/L	ND	5.0	11/01/11 23:35	
Carbon tetrachloride	ug/L	ND	5.0	11/01/11 23:35	
Chloroform	ug/L	ND	5.0	11/01/11 23:35	
cis-1,2-Dichloroethene	ug/L	ND	5.0	11/01/11 23:35	
Ethylbenzene	ug/L	ND	5.0	11/01/11 23:35	
Methylene chloride	ug/L	ND	5.0	11/01/11 23:35	
Naphthalene	ug/L	ND	5.0	11/01/11 23:35	
Tetrachloroethene	ug/L	ND	5.0	11/01/11 23:35	
Toluene	ug/L	ND	5.0	11/01/11 23:35	
trans-1,2-Dichloroethene	ug/L	ND	5.0	11/01/11 23:35	
Trichloroethene	ug/L	ND	5.0	11/01/11 23:35	
Vinyl chloride	ug/L	ND	2.0	11/01/11 23:35	
Xylene (Total)	ug/L	ND	10.0	11/01/11 23:35	
4-Bromofluorobenzene (S)	%	100	72-125	11/01/11 23:35	
Dibromofluoromethane (S)	%	98	83-123	11/01/11 23:35	
Toluene-d8 (S)	%	98	81-114	11/01/11 23:35	

LABORATORY CONTROL SAMPLE: 643536

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-Dichloroethane	ug/L	50	47.4	95	70-127	
1,1-Dichloroethene	ug/L	50	45.8	92	75-145	
1,2-Dichloroethane	ug/L	50	49.9	100	71-127	
Benzene	ug/L	50	50.1	100	76-123	
Carbon tetrachloride	ug/L	50	54.0	108	65-125	
Chloroform	ug/L	50	50.2	100	73-122	
cis-1,2-Dichloroethene	ug/L	50	50.4	101	79-129	
Ethylbenzene	ug/L	50	50.9	102	75-120	
Methylene chloride	ug/L	50	50.8	102	61-138	
Naphthalene	ug/L	50	49.0	98	62-130	
Tetrachloroethene	ug/L	50	52.3	105	57-125	
Toluene	ug/L	50	50.3	101	72-124	
trans-1,2-Dichloroethene	ug/L	50	50.1	100	71-145	
Trichloroethene	ug/L	50	50.8	102	77-122	
Vinyl chloride	ug/L	50	45.3	91	61-146	
Xylene (Total)	ug/L	150	156	104	72-126	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5054083

LABORATORY CONTROL SAMPLE: 643536

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			98	72-125	
Dibromofluoromethane (S)	%			98	83-123	
Toluene-d8 (S)	%			100	81-114	

MATRIX SPIKE SAMPLE: 643537

Parameter	Units	5054083013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	50	36.0	72	37-136	
1,1-Dichloroethane	ug/L	ND	50	29.1	58	47-138	
1,1-Dichloroethene	ug/L	ND	50	43.4	87	54-152	
1,2-Dichloroethane	ug/L	ND	50	37.4	75	42-139	
Benzene	ug/L	ND	50	38.7	77	52-134	
Carbon tetrachloride	ug/L	ND	50	38.7	77	26-136	
Chloroform	ug/L	ND	50	37.3	75	50-134	
cis-1,2-Dichloroethene	ug/L	8.9	50	47.8	78	48-145	
Ethylbenzene	ug/L	ND	50	38.0	76	29-132	
Methylene chloride	ug/L	ND	50	43.3	87	47-141	
Naphthalene	ug/L	ND	50	32.9	66	40-124	
Tetrachloroethene	ug/L	ND	50	41.3	83	30-124	
Toluene	ug/L	ND	50	38.2	76	42-130	
trans-1,2-Dichloroethene	ug/L	ND	50	32.5	65	48-144	
Trichloroethene	ug/L	ND	50	37.9	76	44-130	
Vinyl chloride	ug/L	137	50	170	65	45-159	
Xylene (Total)	ug/L	ND	150	115	77	29-131	
4-Bromofluorobenzene (S)	%				103	72-125	
Dibromofluoromethane (S)	%				99	83-123	
Toluene-d8 (S)	%				97	81-114	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5054083

QC Batch: WETA/7034 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 5054083001, 5054083002, 5054083003, 5054083004, 5054083005, 5054083006, 5054083007, 5054083008, 5054083009, 5054083010, 5054083011

METHOD BLANK: 640788 Matrix: Water
Associated Lab Samples: 5054083001, 5054083002, 5054083003, 5054083004, 5054083005, 5054083006, 5054083007, 5054083008, 5054083009, 5054083010, 5054083011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	10/25/11 15:22	
Nitrogen, Nitrite	mg/L	ND	0.10	10/25/11 15:22	

LABORATORY CONTROL SAMPLE: 640789

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	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 640790 640791

Parameter	Units	5054083003 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	1.8	89	89	90-110	.09	20	M3
Nitrogen, Nitrite	mg/L	ND	2	2	1.9	1.9	94	94	90-110	.1	20	

MATRIX SPIKE SAMPLE: 640792

Parameter	Units	5054083011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	ND	2	2.0	99	90-110	
Nitrogen, Nitrite	mg/L	ND	2	2.0	98	90-110	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5054083

QC Batch: WETA/18105 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 5054083001, 5054083002, 5054083003, 5054083004, 5054083005, 5054083006, 5054083007, 5054083008, 5054083009, 5054083010, 5054083011

METHOD BLANK: 902085 Matrix: Water
Associated Lab Samples: 5054083001, 5054083002, 5054083003, 5054083004, 5054083005, 5054083006, 5054083007, 5054083008, 5054083009, 5054083010, 5054083011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	11/01/11 16:33	

LABORATORY CONTROL SAMPLE: 902086

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.0	99	80-120	

MATRIX SPIKE SAMPLE: 902088

Parameter	Units	5054083003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	2.6	5	7.6	101	80-120	

SAMPLE DUPLICATE: 902087

Parameter	Units	10173444001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	1.9	2.1	9	25	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5054083

QC Batch: WETA/7053 Analysis Method: ASTM D516-90,02
QC Batch Method: ASTM D516-90,02 Analysis Description: ASTM D516-9002 Sulfate Water
Associated Lab Samples: 5054083001, 5054083002, 5054083003, 5054083004, 5054083005, 5054083006, 5054083007, 5054083008, 5054083009, 5054083010, 5054083011

METHOD BLANK: 643009 Matrix: Water
Associated Lab Samples: 5054083001, 5054083002, 5054083003, 5054083004, 5054083005, 5054083006, 5054083007, 5054083008, 5054083009, 5054083010, 5054083011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	5.0	11/01/11 10:02	N2

LABORATORY CONTROL SAMPLE: 643010

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	21.9	110	90-110	N2

MATRIX SPIKE SAMPLE: 643011

Parameter	Units	5053952001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	84.2	200	311	113	90-110	M0,N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 643012 643013

Parameter	Units	5054083003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	164	200	200	399	382	118	109	90-110	4	20	E,M0, N2

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QUALIFIERS

Project: MI Plaza M01046
Pace Project No.: 5054083

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.

LABORATORIES

PASI-I	Pace Analytical Services - Indianapolis
PASI-K	Pace Analytical Services - Kansas City

ANALYTE QUALIFIERS

B-	Analyte detected in method blank but was not detected in the associated samples.
D4	Sample was diluted due to the presence of high levels of target analytes.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
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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Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MI Plaza M01046
Pace Project No.: 5054083

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5054083001	**MMW-8S**	EPA 8260	MSV/36999		
5054083002	**MMW-P-08**	EPA 8260	MSV/36999		
5054083003	**MMW-9S**	EPA 8260	MSV/36999		
5054083004	**MMW-P-07**	EPA 8260	MSV/36999		
5054083005	**MMW-P-01**	EPA 8260	MSV/36999		
5054083006	**MMW-P-04**	EPA 8260	MSV/36999		
5054083007	**MMW-P-12S**	EPA 8260	MSV/36999		
5054083008	**MMW-P-12D**	EPA 8260	MSV/37053		
5054083009	**MMW-P-13S**	EPA 8260	MSV/37053		
5054083010	**MMW-P-13D**	EPA 8260	MSV/37053		
5054083011	**MMW-P-11S**	EPA 8260	MSV/37053		
5054083012	**MMW-P-06**	EPA 8260	MSV/37053		
5054083013	**MW-168D**	EPA 8260	MSV/37053		
5054083014	**EQ Blank**	EPA 8260	MSV/37053		
5054083015	**Trip Blank**	EPA 8260	MSV/37053		
5054083001	**MMW-8S**	EPA 353.2	WETA/7034		
5054083002	**MMW-P-08**	EPA 353.2	WETA/7034		
5054083003	**MMW-9S**	EPA 353.2	WETA/7034		
5054083004	**MMW-P-07**	EPA 353.2	WETA/7034		
5054083005	**MMW-P-01**	EPA 353.2	WETA/7034		
5054083006	**MMW-P-04**	EPA 353.2	WETA/7034		
5054083007	**MMW-P-12S**	EPA 353.2	WETA/7034		
5054083008	**MMW-P-12D**	EPA 353.2	WETA/7034		
5054083009	**MMW-P-13S**	EPA 353.2	WETA/7034		
5054083010	**MMW-P-13D**	EPA 353.2	WETA/7034		
5054083011	**MMW-P-11S**	EPA 353.2	WETA/7034		
5054083001	**MMW-8S**	SM 5310C	WETA/18105		
5054083002	**MMW-P-08**	SM 5310C	WETA/18105		
5054083003	**MMW-9S**	SM 5310C	WETA/18105		
5054083004	**MMW-P-07**	SM 5310C	WETA/18105		
5054083005	**MMW-P-01**	SM 5310C	WETA/18105		
5054083006	**MMW-P-04**	SM 5310C	WETA/18105		
5054083007	**MMW-P-12S**	SM 5310C	WETA/18105		
5054083008	**MMW-P-12D**	SM 5310C	WETA/18105		
5054083009	**MMW-P-13S**	SM 5310C	WETA/18105		
5054083010	**MMW-P-13D**	SM 5310C	WETA/18105		
5054083011	**MMW-P-11S**	SM 5310C	WETA/18105		
5054083001	**MMW-8S**	ASTM D516-90,02	WETA/7053		
5054083002	**MMW-P-08**	ASTM D516-90,02	WETA/7053		
5054083003	**MMW-9S**	ASTM D516-90,02	WETA/7053		
5054083004	**MMW-P-07**	ASTM D516-90,02	WETA/7053		
5054083005	**MMW-P-01**	ASTM D516-90,02	WETA/7053		
5054083006	**MMW-P-04**	ASTM D516-90,02	WETA/7053		
5054083007	**MMW-P-12S**	ASTM D516-90,02	WETA/7053		
5054083008	**MMW-P-12D**	ASTM D516-90,02	WETA/7053		
5054083009	**MMW-P-13S**	ASTM D516-90,02	WETA/7053		
5054083010	**MMW-P-13D**	ASTM D516-90,02	WETA/7053		

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MI Plaza M01046
Pace Project No.: 5054083

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5054083011	**MMW-P-11S**	ASTM D516-90,02	WETA/7053		

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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

1495222

Section A Required Client Information:

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

Section B Required Project Information:

Report To:	Sarah Webb
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

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	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED 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)	Short list VOC 8260	TOC 415.1	Nitrate/nitrite 353.2	Sulfate 375.4	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MMW-8S	WT	G			10/24/11	9:40A		5	1	1		3						X	X	X	X		-001
2	MMW-P-08						10:16A		5	1	1		3						X	X	X	X		-002
3	MMW-9S						10:48A		5	1	1		3						X	X	X	X		-003
4	MS						10:48A		5	1	1		3						X	X	X	X		↓
5	MSD						10:48A		5	1	1		3						X	X	X	X		↓
6	MMW-P-07						11:35A		5	1	1		3						X	X	X	X		-004
7	MMW-P-01						12:08P		5	1	1		3						X	X	X	X		-005
8	MMW-P-06						12:45P		3				3						X					-012
9	MMW-P-04						1:20P		5	1	1		3						X	X	X	X		-006
10	MW-168D						2:14P		3				3						X					-013
11	MMW-P-12S						2:53		5	1	1		3						X	X	X	X		-007
12	MMW-P-12D						3:32		5	1	1		3						X	X	X	X		-008

5054083

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
*Shorthold on Nitrates	[signature]	10-24-11	10:15A	James Jones	10/25	10:22	L4

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Andy Dammeyer

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 10-24-11

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.

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

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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.

1461849

Section A Required Client Information:

Company: Mundell & Associates
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: Sarah Webb
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

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	Analysis Test Y/N: 5L VOCs 8260	TOC 415.1	Nitrate/Nitrite 353.2	Sulfate 375.4	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MMW-P-13S	WT	G			10-24-11	4:15p		5	1	1		3					X	X	X	X		5054083 -009
2	MMW-P-13D						4:45p		5	1	1		3					X	X	X	X		-010
3	MMW-P-11S						5:30p		5	1	1		3					X	X	X	X		-011
4	EQ Blank						6:00p		3				3					X					-014
5	Trip Blank								3				3					X					-015
6																							
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
*see pg 1		10-25-11	10:18A	James Jones	10/25	1018	1.4

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Andy DAmmer
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 10-24-11

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: Mandell

Project # 5054083

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 _____

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 1.4 **Ice Visible in Sample Containers:** ☐ yes ☒ no

(Corrected, if applicable)

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 10/25/11 JJ

				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.
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: J Sayer **Date:** 10/25/11

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

Sample Container Count

CLIENT: Mundell

COC PAGE 1 of 2

COC ID# _____

Project # 5054083

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

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

Sample Container Count

CLIENT: Mondell

COC PAGE 2 of 2

COC ID# _____

Project # 5054083

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

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

September 26, 2011

Ms. Sarah Webb
Mundell & Associates
110 South Downey Ave.
Indianapolis, IN 46219

RE: Project: MI Plaza M01046
Pace Project No.: 5052539

Dear Ms. Webb:
Enclosed are the analytical results for sample(s) received by the laboratory on September 09, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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,

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.: 5052539

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Idaho Certification #: MN00064
Illinois Certification #: 200011
Iowa Certification #: 368
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New Mexico Certification #: Pace
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: D9921
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Washington Certification #: C754
Wisconsin Certification #: 999407970

Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268
Illinois/NELAC Certification #: 100418
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Louisiana Certification #: 04076
Ohio VAP: CL0065
West Virginia Certification #: 330

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 05-008-0
Illinois Certification #: 001191
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-08-TX
Utah Certification #: 9135995665

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Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

SAMPLE SUMMARY

Project: MI Plaza M01046
Pace Project No.: 5052539

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5052539001	**MMW-P-11S**	Water	09/09/11 11:45	09/09/11 16:35
5052539002	**MMW-P-11D**	Water	09/09/11 11:19	09/09/11 16:35
5052539003	**MMW-P-12S**	Water	09/09/11 15:33	09/09/11 16:35
5052539004	**MMW-P-12D**	Water	09/09/11 15:05	09/09/11 16:35
5052539005	**MMW-P-13S**	Water	09/09/11 13:38	09/09/11 16:35
5052539006	**MMW-P-13D**	Water	09/09/11 14:15	09/09/11 16:35
5052539007	**FD-1**	Water	09/09/11 08:00	09/09/11 16:35
5052539008	**Trip Blank**	Water	09/09/11 08:00	09/09/11 16:35
5052539009	**Equipment Blank**	Water	09/09/11 08:00	09/09/11 16:35

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SAMPLE ANALYTE COUNT

Project: MI Plaza M01046
Pace Project No.: 5052539

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
5052539001	**MMW-P-11S**	RSK 175	SK4	3	PASI-M
		EPA 8260	ALA	20	PASI-I
		EPA 353.2	DDM	1	PASI-I
		SM 5310C	LAJ	1	PASI-K
		ASTM D516-90,02	TPD	1	PASI-I
5052539002	**MMW-P-11D**	RSK 175	SK4	3	PASI-M
		EPA 8260	ALA	20	PASI-I
		EPA 353.2	DDM	1	PASI-I
		SM 5310C	LAJ	1	PASI-K
		ASTM D516-90,02	TPD	1	PASI-I
5052539003	**MMW-P-12S**	RSK 175	SK4	3	PASI-M
		EPA 8260	ALA	20	PASI-I
		EPA 353.2	DDM	1	PASI-I
		SM 5310C	LAJ	1	PASI-K
		ASTM D516-90,02	TPD	1	PASI-I
5052539004	**MMW-P-12D**	RSK 175	SK4	3	PASI-M
		EPA 8260	ALA	20	PASI-I
		EPA 353.2	DDM	1	PASI-I
		SM 5310C	LAJ	1	PASI-K
		ASTM D516-90,02	TPD	1	PASI-I
5052539005	**MMW-P-13S**	RSK 175	SK4	3	PASI-M
		EPA 8260	ALA	20	PASI-I
		EPA 353.2	DDM	1	PASI-I
		SM 5310C	LAJ	1	PASI-K
		ASTM D516-90,02	TPD	1	PASI-I
5052539006	**MMW-P-13D**	RSK 175	SK4	3	PASI-M
		EPA 8260	ALA	20	PASI-I
		EPA 353.2	DDM	1	PASI-I
		SM 5310C	LAJ	1	PASI-K
		ASTM D516-90,02	TPD	1	PASI-I
5052539007	**FD-1**	RSK 175	SK4	3	PASI-M
		EPA 8260	ALA	20	PASI-I
		EPA 353.2	DDM	1	PASI-I
		SM 5310C	LAJ	1	PASI-K
		ASTM D516-90,02	TPD	1	PASI-I
5052539008	**Trip Blank**	EPA 8260	ALA	20	PASI-I
5052539009	**Equipment Blank**	EPA 8260	ALA	20	PASI-I

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5052539

Sample: MMW-P-11S **Lab ID: 5052539001** Collected: 09/09/11 11:45 Received: 09/09/11 16:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		09/15/11 13:46	74-84-0	
Ethene	ND	ug/L	10.0	1		09/15/11 13:46	74-85-1	
Methane	**287**	ug/L	10.0	1		09/15/11 13:46	74-82-8	
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		09/22/11 03:47	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		09/22/11 03:47	56-23-5	
Chloroform	ND	ug/L	5.0	1		09/22/11 03:47	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/22/11 03:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/22/11 03:47	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/22/11 03:47	75-35-4	
cis-1,2-Dichloroethene	**5.9**	ug/L	5.0	1		09/22/11 03:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/22/11 03:47	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		09/22/11 03:47	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		09/22/11 03:47	75-09-2	
Naphthalene	ND	ug/L	5.0	1		09/22/11 03:47	91-20-3	
Tetrachloroethene	**76.1**	ug/L	5.0	1		09/22/11 03:47	127-18-4	
Toluene	ND	ug/L	5.0	1		09/22/11 03:47	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/22/11 03:47	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		09/22/11 03:47	79-01-6	
Vinyl chloride	**9.1**	ug/L	2.0	1		09/22/11 03:47	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		09/22/11 03:47	1330-20-7	
Dibromofluoromethane (S)	99	%	83-123	1		09/22/11 03:47	1868-53-7	
4-Bromofluorobenzene (S)	101	%	72-125	1		09/22/11 03:47	460-00-4	
Toluene-d8 (S)	95	%	81-114	1		09/22/11 03:47	2037-26-5	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		09/09/11 17:00		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.5**	mg/L	1.0	1		09/16/11 00:09	7440-44-0	
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**380**	mg/L	125	1		09/12/11 12:00	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5052539

Sample: MMW-P-11D **Lab ID: 5052539002** Collected: 09/09/11 11:19 Received: 09/09/11 16:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		09/15/11 13:57	74-84-0	
Ethene	ND	ug/L	10.0	1		09/15/11 13:57	74-85-1	
Methane	**458**	ug/L	10.0	1		09/15/11 13:57	74-82-8	
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		09/22/11 04:19	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		09/22/11 04:19	56-23-5	
Chloroform	ND	ug/L	5.0	1		09/22/11 04:19	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/22/11 04:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/22/11 04:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/22/11 04:19	75-35-4	
cis-1,2-Dichloroethene	**7.3**	ug/L	5.0	1		09/22/11 04:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/22/11 04:19	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		09/22/11 04:19	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		09/22/11 04:19	75-09-2	
Naphthalene	ND	ug/L	5.0	1		09/22/11 04:19	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		09/22/11 04:19	127-18-4	
Toluene	ND	ug/L	5.0	1		09/22/11 04:19	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/22/11 04:19	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		09/22/11 04:19	79-01-6	
Vinyl chloride	**84.0**	ug/L	2.0	1		09/22/11 04:19	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		09/22/11 04:19	1330-20-7	
Dibromofluoromethane (S)	100	%	83-123	1		09/22/11 04:19	1868-53-7	
4-Bromofluorobenzene (S)	100	%	72-125	1		09/22/11 04:19	460-00-4	
Toluene-d8 (S)	95	%	81-114	1		09/22/11 04:19	2037-26-5	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		09/09/11 17:02		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**6.7**	mg/L	1.0	1		09/16/11 00:23	7440-44-0	
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**184**	mg/L	50.0	1		09/12/11 12:00	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5052539

Sample: MMW-P-12S **Lab ID: 5052539003** Collected: 09/09/11 15:33 Received: 09/09/11 16:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		09/15/11 14:07	74-84-0	
Ethene	ND	ug/L	10.0	1		09/15/11 14:07	74-85-1	
Methane	ND	ug/L	10.0	1		09/15/11 14:07	74-82-8	
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		09/22/11 04:51	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		09/22/11 04:51	56-23-5	
Chloroform	ND	ug/L	5.0	1		09/22/11 04:51	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/22/11 04:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/22/11 04:51	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/22/11 04:51	75-35-4	
cis-1,2-Dichloroethene	**741**	ug/L	50.0	10		09/22/11 05:23	156-59-2	
trans-1,2-Dichloroethene	**14.1**	ug/L	5.0	1		09/22/11 04:51	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		09/22/11 04:51	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		09/22/11 04:51	75-09-2	
Naphthalene	ND	ug/L	5.0	1		09/22/11 04:51	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		09/22/11 04:51	127-18-4	
Toluene	ND	ug/L	5.0	1		09/22/11 04:51	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/22/11 04:51	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		09/22/11 04:51	79-01-6	
Vinyl chloride	**50.8**	ug/L	2.0	1		09/22/11 04:51	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		09/22/11 04:51	1330-20-7	
Dibromofluoromethane (S)	101	%	83-123	1		09/22/11 04:51	1868-53-7	
4-Bromofluorobenzene (S)	100	%	72-125	1		09/22/11 04:51	460-00-4	
Toluene-d8 (S)	96	%	81-114	1		09/22/11 04:51	2037-26-5	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		09/09/11 17:03		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.8**	mg/L	1.0	1		09/16/11 00:37	7440-44-0	
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**166**	mg/L	50.0	1		09/12/11 12:00	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5052539

Sample: MMW-P-12D **Lab ID: 5052539004** Collected: 09/09/11 15:05 Received: 09/09/11 16:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		09/15/11 14:18	74-84-0	
Ethene	ND	ug/L	10.0	1		09/15/11 14:18	74-85-1	
Methane	**25.1**	ug/L	10.0	1		09/15/11 14:18	74-82-8	
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		09/22/11 05:55	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		09/22/11 05:55	56-23-5	
Chloroform	ND	ug/L	5.0	1		09/22/11 05:55	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/22/11 05:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/22/11 05:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/22/11 05:55	75-35-4	
cis-1,2-Dichloroethene	**678**	ug/L	50.0	10		09/22/11 06:27	156-59-2	
trans-1,2-Dichloroethene	**15.9**	ug/L	5.0	1		09/22/11 05:55	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		09/22/11 05:55	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		09/22/11 05:55	75-09-2	
Naphthalene	ND	ug/L	5.0	1		09/22/11 05:55	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		09/22/11 05:55	127-18-4	
Toluene	ND	ug/L	5.0	1		09/22/11 05:55	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/22/11 05:55	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		09/22/11 05:55	79-01-6	
Vinyl chloride	**63.0**	ug/L	2.0	1		09/22/11 05:55	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		09/22/11 05:55	1330-20-7	
Dibromofluoromethane (S)	100	%	83-123	1		09/22/11 05:55	1868-53-7	
4-Bromofluorobenzene (S)	100	%	72-125	1		09/22/11 05:55	460-00-4	
Toluene-d8 (S)	95	%	81-114	1		09/22/11 05:55	2037-26-5	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		09/09/11 17:04		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.8**	mg/L	1.0	1		09/16/11 00:51	7440-44-0	
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**179**	mg/L	50.0	1		09/12/11 12:00	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5052539

Sample: MMW-P-13S **Lab ID: 5052539005** Collected: 09/09/11 13:38 Received: 09/09/11 16:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		09/15/11 13:05	74-84-0	
Ethene	ND	ug/L	10.0	1		09/15/11 13:05	74-85-1	
Methane	ND	ug/L	10.0	1		09/15/11 13:05	74-82-8	
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		09/22/11 06:59	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		09/22/11 06:59	56-23-5	
Chloroform	ND	ug/L	5.0	1		09/22/11 06:59	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/22/11 06:59	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/22/11 06:59	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/22/11 06:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		09/22/11 06:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/22/11 06:59	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		09/22/11 06:59	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		09/22/11 06:59	75-09-2	
Naphthalene	ND	ug/L	5.0	1		09/22/11 06:59	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		09/22/11 06:59	127-18-4	
Toluene	ND	ug/L	5.0	1		09/22/11 06:59	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/22/11 06:59	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		09/22/11 06:59	79-01-6	
Vinyl chloride	**8.3**	ug/L	2.0	1		09/22/11 06:59	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		09/22/11 06:59	1330-20-7	
Dibromofluoromethane (S)	100	%	83-123	1		09/22/11 06:59	1868-53-7	
4-Bromofluorobenzene (S)	97	%	72-125	1		09/22/11 06:59	460-00-4	
Toluene-d8 (S)	94	%	81-114	1		09/22/11 06:59	2037-26-5	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**4.5**	mg/L	0.10	1		09/09/11 17:05		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.1**	mg/L	1.0	1		09/16/11 01:06	7440-44-0	
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**112**	mg/L	50.0	1		09/12/11 12:00	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5052539

Sample: MMW-P-13D **Lab ID: 5052539006** Collected: 09/09/11 14:15 Received: 09/09/11 16:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		09/15/11 14:29	74-84-0	
Ethene	ND	ug/L	10.0	1		09/15/11 14:29	74-85-1	
Methane	**12.3**	ug/L	10.0	1		09/15/11 14:29	74-82-8	
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		09/22/11 08:35	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		09/22/11 08:35	56-23-5	
Chloroform	ND	ug/L	5.0	1		09/22/11 08:35	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/22/11 08:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/22/11 08:35	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/22/11 08:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		09/22/11 08:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/22/11 08:35	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		09/22/11 08:35	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		09/22/11 08:35	75-09-2	
Naphthalene	ND	ug/L	5.0	1		09/22/11 08:35	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		09/22/11 08:35	127-18-4	
Toluene	ND	ug/L	5.0	1		09/22/11 08:35	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/22/11 08:35	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		09/22/11 08:35	79-01-6	
Vinyl chloride	**139**	ug/L	2.0	1		09/22/11 08:35	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		09/22/11 08:35	1330-20-7	
Dibromofluoromethane (S)	100	%	83-123	1		09/22/11 08:35	1868-53-7	
4-Bromofluorobenzene (S)	100	%	72-125	1		09/22/11 08:35	460-00-4	
Toluene-d8 (S)	94	%	81-114	1		09/22/11 08:35	2037-26-5	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		09/09/11 17:10		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2.1**	mg/L	1.0	1		09/16/11 01:34	7440-44-0	
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**119**	mg/L	50.0	1		09/12/11 12:00	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5052539

Sample: FD-1 **Lab ID: 5052539007** Collected: 09/09/11 08:00 Received: 09/09/11 16:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175							
Ethane	ND	ug/L	10.0	1		09/15/11 14:40	74-84-0	
Ethene	ND	ug/L	10.0	1		09/15/11 14:40	74-85-1	
Methane	**25.2**	ug/L	10.0	1		09/15/11 14:40	74-82-8	
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		09/22/11 09:07	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		09/22/11 09:07	56-23-5	
Chloroform	ND	ug/L	5.0	1		09/22/11 09:07	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/22/11 09:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/22/11 09:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/22/11 09:07	75-35-4	
cis-1,2-Dichloroethene	**645**	ug/L	50.0	10		09/22/11 09:39	156-59-2	
trans-1,2-Dichloroethene	**16.0**	ug/L	5.0	1		09/22/11 09:07	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		09/22/11 09:07	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		09/22/11 09:07	75-09-2	
Naphthalene	ND	ug/L	5.0	1		09/22/11 09:07	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		09/22/11 09:07	127-18-4	
Toluene	ND	ug/L	5.0	1		09/22/11 09:07	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/22/11 09:07	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		09/22/11 09:07	79-01-6	
Vinyl chloride	**63.7**	ug/L	2.0	1		09/22/11 09:07	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		09/22/11 09:07	1330-20-7	
Dibromofluoromethane (S)	101	%	83-123	1		09/22/11 09:07	1868-53-7	
4-Bromofluorobenzene (S)	100	%	72-125	1		09/22/11 09:07	460-00-4	
Toluene-d8 (S)	95	%	81-114	1		09/22/11 09:07	2037-26-5	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		09/09/11 17:11		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2.2**	mg/L	1.0	1		09/16/11 19:42	7440-44-0	
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**164**	mg/L	50.0	1		09/12/11 12:00	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5052539

Sample: Trip Blank **Lab ID: 5052539008** Collected: 09/09/11 08:00 Received: 09/09/11 16:35 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		09/22/11 10:11	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		09/22/11 10:11	56-23-5	
Chloroform	ND	ug/L	5.0	1		09/22/11 10:11	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/22/11 10:11	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/22/11 10:11	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/22/11 10:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		09/22/11 10:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/22/11 10:11	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		09/22/11 10:11	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		09/22/11 10:11	75-09-2	
Naphthalene	ND	ug/L	5.0	1		09/22/11 10:11	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		09/22/11 10:11	127-18-4	
Toluene	ND	ug/L	5.0	1		09/22/11 10:11	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/22/11 10:11	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		09/22/11 10:11	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		09/22/11 10:11	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		09/22/11 10:11	1330-20-7	
Dibromofluoromethane (S)	101	%	83-123	1		09/22/11 10:11	1868-53-7	
4-Bromofluorobenzene (S)	100	%	72-125	1		09/22/11 10:11	460-00-4	
Toluene-d8 (S)	96	%	81-114	1		09/22/11 10:11	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5052539

Sample: Equipment Blank **Lab ID: 5052539009** Collected: 09/09/11 08:00 Received: 09/09/11 16:35 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		09/22/11 10:43	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		09/22/11 10:43	56-23-5	
Chloroform	**10.9**	ug/L	5.0	1		09/22/11 10:43	67-66-3	1d
1,1-Dichloroethane	ND	ug/L	5.0	1		09/22/11 10:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/22/11 10:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/22/11 10:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		09/22/11 10:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/22/11 10:43	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		09/22/11 10:43	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		09/22/11 10:43	75-09-2	
Naphthalene	ND	ug/L	5.0	1		09/22/11 10:43	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		09/22/11 10:43	127-18-4	
Toluene	ND	ug/L	5.0	1		09/22/11 10:43	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/22/11 10:43	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		09/22/11 10:43	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		09/22/11 10:43	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		09/22/11 10:43	1330-20-7	
Dibromofluoromethane (S)	101	%	83-123	1		09/22/11 10:43	1868-53-7	
4-Bromofluorobenzene (S)	101	%	72-125	1		09/22/11 10:43	460-00-4	
Toluene-d8 (S)	96	%	81-114	1		09/22/11 10:43	2037-26-5	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5052539

QC Batch: AIR/13149 Analysis Method: RSK 175
QC Batch Method: RSK 175 Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 5052539001, 5052539002, 5052539003, 5052539004, 5052539005, 5052539006, 5052539007

METHOD BLANK: 1054594 Matrix: Water
Associated Lab Samples: 5052539001, 5052539002, 5052539003, 5052539004, 5052539005, 5052539006, 5052539007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	ND	10.0	09/15/11 10:44	
Ethene	ug/L	ND	10.0	09/15/11 10:44	
Methane	ug/L	ND	10.0	09/15/11 10:44	

LABORATORY CONTROL SAMPLE & LCSD: 1054595 1054596

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	114	108	110	95	96	70-130	2	30	
Ethene	ug/L	106	101	104	95	98	70-130	4	30	
Methane	ug/L	60.7	56.6	61.4	93	101	70-130	8	30	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1055516 1055517

Parameter	Units	5052539005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Ethane	ug/L	ND	108	162	97.0	118	90	73	30-150	20	30	
Ethene	ug/L	ND	101	152	91.1	116	90	76	30-150	24	30	
Methane	ug/L	ND	57.8	86.6	55.0	63.6	92	71	30-150	15	30	

SAMPLE DUPLICATE: 1055518

Parameter	Units	259164001 Result	Dup Result	RPD	Max RPD	Qualifiers
Ethane	ug/L	ND	ND		30	
Ethene	ug/L	ND	ND		30	
Methane	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5052539

QC Batch: MSV/35902 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5052539001, 5052539002, 5052539003, 5052539004, 5052539005, 5052539006, 5052539007, 5052539008, 5052539009

METHOD BLANK: 626809 Matrix: Water
Associated Lab Samples: 5052539001, 5052539002, 5052539003, 5052539004, 5052539005, 5052539006, 5052539007, 5052539008, 5052539009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	09/22/11 01:08	
1,1-Dichloroethane	ug/L	ND	5.0	09/22/11 01:08	
1,1-Dichloroethene	ug/L	ND	5.0	09/22/11 01:08	
1,2-Dichloroethane	ug/L	ND	5.0	09/22/11 01:08	
Benzene	ug/L	ND	5.0	09/22/11 01:08	
Carbon tetrachloride	ug/L	ND	5.0	09/22/11 01:08	
Chloroform	ug/L	ND	5.0	09/22/11 01:08	
cis-1,2-Dichloroethene	ug/L	ND	5.0	09/22/11 01:08	
Ethylbenzene	ug/L	ND	5.0	09/22/11 01:08	
Methylene chloride	ug/L	5.1	5.0	09/22/11 01:08	B-
Naphthalene	ug/L	ND	5.0	09/22/11 01:08	
Tetrachloroethene	ug/L	ND	5.0	09/22/11 01:08	
Toluene	ug/L	ND	5.0	09/22/11 01:08	
trans-1,2-Dichloroethene	ug/L	ND	5.0	09/22/11 01:08	
Trichloroethene	ug/L	ND	5.0	09/22/11 01:08	
Vinyl chloride	ug/L	ND	2.0	09/22/11 01:08	
Xylene (Total)	ug/L	ND	10.0	09/22/11 01:08	
4-Bromofluorobenzene (S)	%	101	72-125	09/22/11 01:08	
Dibromofluoromethane (S)	%	101	83-123	09/22/11 01:08	
Toluene-d8 (S)	%	95	81-114	09/22/11 01:08	

LABORATORY CONTROL SAMPLE: 626810

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	48.3	97	69-126	
1,1-Dichloroethane	ug/L	50	43.9	88	70-127	
1,1-Dichloroethene	ug/L	50	54.3	109	75-145	
1,2-Dichloroethane	ug/L	50	49.5	99	71-127	
Benzene	ug/L	50	45.7	91	76-123	
Carbon tetrachloride	ug/L	50	47.9	96	65-125	
Chloroform	ug/L	50	46.8	94	73-122	
cis-1,2-Dichloroethene	ug/L	50	47.2	94	79-129	
Ethylbenzene	ug/L	50	48.9	98	75-120	
Methylene chloride	ug/L	50	56.9	114	61-138	
Naphthalene	ug/L	50	44.9	90	62-130	
Tetrachloroethene	ug/L	50	47.6	95	57-125	
Toluene	ug/L	50	44.3	89	72-124	
trans-1,2-Dichloroethene	ug/L	50	47.6	95	71-145	
Trichloroethene	ug/L	50	43.1	86	77-122	
Vinyl chloride	ug/L	50	54.1	108	61-146	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5052539

LABORATORY CONTROL SAMPLE: 626810

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	145	97	72-126	
4-Bromofluorobenzene (S)	%			99	72-125	
Dibromofluoromethane (S)	%			101	83-123	
Toluene-d8 (S)	%			96	81-114	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 626811 626812

Parameter	Units	5052539005 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	46.2	46.2	92	92	37-136	.2	20	
1,1-Dichloroethane	ug/L	ND	50	50	44.9	44.8	90	90	47-138	.4	20	
1,1-Dichloroethene	ug/L	ND	50	50	54.0	53.8	108	108	54-152	.4	20	
1,2-Dichloroethane	ug/L	ND	50	50	50.3	51.4	101	103	42-139	2	20	
Benzene	ug/L	ND	50	50	42.0	41.8	84	84	52-134	.5	20	
Carbon tetrachloride	ug/L	ND	50	50	44.0	44.1	88	88	26-136	.3	20	
Chloroform	ug/L	ND	50	50	45.2	45.9	90	92	50-134	2	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	46.2	46.0	92	92	48-145	.6	20	
Ethylbenzene	ug/L	ND	50	50	29.5	29.1	59	58	29-132	1	20	
Methylene chloride	ug/L	ND	50	50	42.2	43.6	84	87	47-141	3	20	
Naphthalene	ug/L	ND	50	50	36.1	36.8	72	74	40-124	2	20	
Tetrachloroethene	ug/L	ND	50	50	30.1	29.6	60	59	30-124	2	20	
Toluene	ug/L	ND	50	50	34.5	34.1	67	66	42-130	1	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	44.2	44.7	88	89	48-144	1	20	
Trichloroethene	ug/L	ND	50	50	35.6	35.2	71	70	44-130	1	20	
Vinyl chloride	ug/L	8.3	50	50	64.6	64.9	113	113	45-159	.4	20	
Xylene (Total)	ug/L	ND	150	150	86.4	85.7	58	57	29-131	.8	20	
4-Bromofluorobenzene (S)	%						100	100	72-125		20	
Dibromofluoromethane (S)	%						101	103	83-123		20	
Toluene-d8 (S)	%						95	96	81-114		20	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5052539

QC Batch: WETA/6829 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 5052539001, 5052539002, 5052539003, 5052539004, 5052539005, 5052539006, 5052539007

METHOD BLANK: 620392 Matrix: Water
Associated Lab Samples: 5052539001, 5052539002, 5052539003, 5052539004, 5052539005, 5052539006, 5052539007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	09/09/11 16:41	

LABORATORY CONTROL SAMPLE: 620393

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2	2.0	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 620394 620395

Parameter	Units	5052462001 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	0.044	2	2	2.1	2.1	100	101	90-110	.2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 621064 621065

Parameter	Units	5052539005 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	4.5	2	2	6.4	6.5	95	100	90-110	1	20	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5052539

QC Batch: WETA/17594 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 5052539001, 5052539002, 5052539003, 5052539004, 5052539005, 5052539006

METHOD BLANK: 875584 Matrix: Water
Associated Lab Samples: 5052539001, 5052539002, 5052539003, 5052539004, 5052539005, 5052539006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	09/15/11 19:12	

LABORATORY CONTROL SAMPLE: 875585

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.0	101	80-120	

MATRIX SPIKE SAMPLE: 875587

Parameter	Units	5052539005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	1.1	5	6.1	100	80-120	

SAMPLE DUPLICATE: 875586

Parameter	Units	5052207013 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	6.6	6.8	2	25	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5052539

QC Batch: WETA/17604 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 5052539007

METHOD BLANK: 876306 Matrix: Water
Associated Lab Samples: 5052539007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	09/16/11 16:25	

LABORATORY CONTROL SAMPLE: 876307

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	4.9	99	80-120	

MATRIX SPIKE SAMPLE: 876309

Parameter	Units	60106022005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	1.3	5	6.1	97	80-120	

SAMPLE DUPLICATE: 876308

Parameter	Units	60106022002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	2.3	1.9	17	25	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5052539

QC Batch: WETA/6831 Analysis Method: ASTM D516-90,02
QC Batch Method: ASTM D516-90,02 Analysis Description: ASTM D516-9002 Sulfate Water
Associated Lab Samples: 5052539001, 5052539002, 5052539003, 5052539004, 5052539005, 5052539006, 5052539007

METHOD BLANK: 621119 Matrix: Water
Associated Lab Samples: 5052539001, 5052539002, 5052539003, 5052539004, 5052539005, 5052539006, 5052539007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	5.0	09/12/11 12:00	N2

LABORATORY CONTROL SAMPLE: 621120

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	21.2	106	90-110	N2

MATRIX SPIKE SAMPLE: 621121

Parameter	Units	5052316001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	560	1000	1660	110	90-110	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 621122 621123

Parameter	Units	5052539005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	112	200	200	363	347	126	118	90-110	5	20	M3,N2

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALIFIERS

Project: MI Plaza M01046
Pace Project No.: 5052539

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.

LABORATORIES

PASI-I	Pace Analytical Services - Indianapolis
PASI-K	Pace Analytical Services - Kansas City
PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

1d	The presence of this compound indicates the possible use of commercially purchased deionized water. aa 9/22/11
B-	Analyte detected in method blank but was not detected in the associated samples.
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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Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)875-5894

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MI Plaza M01046
Pace Project No.: 5052539

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5052539001	**MMW-P-11S**	RSK 175	AIR/13149		
5052539002	**MMW-P-11D**	RSK 175	AIR/13149		
5052539003	**MMW-P-12S**	RSK 175	AIR/13149		
5052539004	**MMW-P-12D**	RSK 175	AIR/13149		
5052539005	**MMW-P-13S**	RSK 175	AIR/13149		
5052539006	**MMW-P-13D**	RSK 175	AIR/13149		
5052539007	**FD-1**	RSK 175	AIR/13149		
5052539001	**MMW-P-11S**	EPA 8260	MSV/35902		
5052539002	**MMW-P-11D**	EPA 8260	MSV/35902		
5052539003	**MMW-P-12S**	EPA 8260	MSV/35902		
5052539004	**MMW-P-12D**	EPA 8260	MSV/35902		
5052539005	**MMW-P-13S**	EPA 8260	MSV/35902		
5052539006	**MMW-P-13D**	EPA 8260	MSV/35902		
5052539007	**FD-1**	EPA 8260	MSV/35902		
5052539008	**Trip Blank**	EPA 8260	MSV/35902		
5052539009	**Equipment Blank**	EPA 8260	MSV/35902		
5052539001	**MMW-P-11S**	EPA 353.2	WETA/6829		
5052539002	**MMW-P-11D**	EPA 353.2	WETA/6829		
5052539003	**MMW-P-12S**	EPA 353.2	WETA/6829		
5052539004	**MMW-P-12D**	EPA 353.2	WETA/6829		
5052539005	**MMW-P-13S**	EPA 353.2	WETA/6829		
5052539006	**MMW-P-13D**	EPA 353.2	WETA/6829		
5052539007	**FD-1**	EPA 353.2	WETA/6829		
5052539001	**MMW-P-11S**	SM 5310C	WETA/17594		
5052539002	**MMW-P-11D**	SM 5310C	WETA/17594		
5052539003	**MMW-P-12S**	SM 5310C	WETA/17594		
5052539004	**MMW-P-12D**	SM 5310C	WETA/17594		
5052539005	**MMW-P-13S**	SM 5310C	WETA/17594		
5052539006	**MMW-P-13D**	SM 5310C	WETA/17594		
5052539007	**FD-1**	SM 5310C	WETA/17604		
5052539001	**MMW-P-11S**	ASTM D516-90,02	WETA/6831		
5052539002	**MMW-P-11D**	ASTM D516-90,02	WETA/6831		
5052539003	**MMW-P-12S**	ASTM D516-90,02	WETA/6831		
5052539004	**MMW-P-12D**	ASTM D516-90,02	WETA/6831		
5052539005	**MMW-P-13S**	ASTM D516-90,02	WETA/6831		
5052539006	**MMW-P-13D**	ASTM D516-90,02	WETA/6831		
5052539007	**FD-1**	ASTM D516-90,02	WETA/6831		

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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.

RBH

Page: 1 of 3

1495253

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Mundell	Report To: SARAH WEBB	Attention: Merle Tebbe
Address: 110 South downey Indy IN 46219	Copy To:	Company Name:
		Address:
Email To: swebb@mundellassociates.com	Purchase Order No.:	Pace Quote Reference:
Phone: Fax:	Project Name:	Pace Project Manager:
Requested Due Date/TAT: Std	Project Number: M01046	Pace Profile #:

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	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)	VOCs Short	MEE	NO3/SO4	TOC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MMW-P-11S	W	G	9/9/11	1145				3				X						X					001
2	↓	↓	↓	↓					2	X										X				↓
3									1	X											X			
4									1		X											X		
5	MMW-P-11D				1119				3				X						X					002
6	↓								2	X										X				↓
7									1	X											X			
8									1		X											X		
9	MMW-P-12S				1533				3				X						X					003
10	↓								2	X										X				↓
11									1	X											X			
12									1		X											X		

5052539

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)
	Swebb	9/9/11	~~1633~~ SWT 1635	Kathy Cok / Pace	9/9/11	~~1633~~ Kee 9-9-11 1635	0.98	Y	N	Y

WI/Client

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: SARAH WEBB

SIGNATURE of SAMPLER: Sarah Webb

DATE Signed (MM/DD/YY): 9/9/11

*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

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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.

1495254

Section A Required Client Information:

Company: Mundell
Address: 110 South downey
INDY IN
Email To: swebb@mundellassociates.com
Phone: Fax:
Requested Due Date/TAT: Std

Section B Required Project Information:

Report To: SARAH WEBB
Copy To:
Purchase Order No.:
Project Name:
Project Number:

Section C Invoice Information:

Attention: MERLE 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: IN

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	VOC Short	MET	SO4/NO3	TOC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MMW-P-12D	WG	G	9/9/11	1505				3				X						X						5052539
2									2	X									X					004
3									1	X										X				
4									1		X										X			
5	MMW-P-13S				1338				9				X						X					005
6									6	X										X				MS/MSD
7									3	X											X			
8									3		X										X			
9	MMW-P-13D				1415				3				X						X					006
10									2	X										X				
11									1	X											X			
12									1		X										X			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	SWebb	9/9/11	1635	Kathy Eck / Pace	9/9/11	1635	0.9	Y	N	Y

WI Client

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: SARAH WEBB
SIGNATURE of SAMPLER: Sarah Webb
DATE Signed (MM/DD/YY): 9/9/11

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

Page: 3 of 3

1495255

Section A Required Client Information:

Company: Mundell
Address: 110 South downey
Indy IN 46219
Email To: swebb@mundellassociates.com
Phone: Fax:
Requested Due Date/TAT: STD.

Section B Required Project Information:

Report To: SARAH WEBB
Copy To:
Purchase Order No.:
Project Name:
Project Number:

Section C Invoice Information:

Attention: merle 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: IN

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

SW 9/9/11

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	Analysis Test Y/N: VOC short	MEE	NO_3	SO_4	TDS	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	[illegible]	[illegible]																						
2	[illegible]																							
3	[illegible]																							
4	[illegible]																							
5	[illegible]																							5052539
6	[illegible]																							
7	FD-1	W	G						3				X					X						007
8	TRIP BLANK	W							3	X			X					X						008
9	EQUIPMENT BLANK	W							3				X					X						009
10	FD-1	W	G						2	X									X					007
11	FD-1								1	X										X				
12	FD-1								1		X										X			

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)
	SWebb	9/9/11	1635	Kathy Eck / Pace	9/9/11	1635	0.9°C	Y	N	Y

ORIGINAL

WI / Client

SAMPLER NAME AND SIGNATURE: S
PRINT Name of SAMPLER: SARAH WEBB
SIGNATURE of SAMPLER: Sarah Webb
DATE Signed (MM/DD/YY): 9/9/11

*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 # 5052539

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 _____

Thermometer Used: 1 2 3 4 6 A B C D E (0)

Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature (Corrected, if applicable): 0.9°C

Ice Visible in Sample Containers: ☐ yes ☑ no

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 9/9/11 TMS

				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
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:** 9/9/11

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

Sample Container Count

CLIENT: Mundell

COC PAGE 1 of 1
COC ID# 1495253

Project # 60525391

Sample Line Item

Item	DG9H	AG1U	WGFU	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	VSG			Comments
1	3								1		1		2			11S
2	3								1		1		2			11D
3	3								1		1		2			12S
4	3								1		1		2			12D
5	9								3		3		6			13S
6	3								1		1		2			13D
7	3								1		1		2			FD
8	3															TB
9	3															EQ
10																
11																
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

Microseeps, Inc
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

September 28, 2011

Sarah Webb
Mundell & Associates, Inc.
110 South Downey Ave.
Indianapolis, IN 46219

RE: **MICHIGAN PLAZA / M01046**
Microseeps Workorder: 2494

Dear Sarah Webb:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday, September 14, 2011. 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,

Heather Hauser 09/28/2011
hhauser@microseeps.com

Enclosures

Total Number of Pages 17

CERTIFICATE OF ANALYSIS

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Microseeps, Inc
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

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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Microseeps, Inc
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

SAMPLE SUMMARY

Workorder: 2494 MICHIGAN PLAZA / M01046

Lab ID	Sample ID	Matrix	Date Collected	Date Received
24940001	MMW-P-11S	Water	9/9/2011 11:45	9/14/2011 08:46
24940002	MMW-P-11D	Water	9/9/2011 11:16	9/14/2011 08:46
24940003	MMW-P-12S	Water	9/9/2011 15:33	9/14/2011 08:46
24940004	MMW-P-12D	Water	9/9/2011 15:05	9/14/2011 08:46
24940005	MMW-P-13S	Water	9/9/2011 13:38	9/14/2011 08:46
24940006	MMW-P-13D	Water	9/9/2011 14:15	9/14/2011 08:46

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Microseeps, Inc
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

PROJECT SUMMARY

Workorder: 2494 MICHIGAN PLAZA / M01046

Batch Comments

Batch: EDON/1101 - Low Level Volatile Fatty Acids

Analyte recovery for Formic Acid in the calibration verifications were above laboratory control limits. Results for this analyte in associated samples may be bias high.

Analyte recovery for Pyruvic Acid in the laboratory control sample was below laboratory control limits. Results for this analyte in associated samples may be bias low.

The matrix spike and/or matrix spike duplicate, recovery or relative percent difference; accuracy influenced by the concentration of the original sample. Analyte Lactic, Acetic, Propionic Acids. Batch acceptance based on laboratory control sample recovery.

Batch: EDON/1107 - Low Level Volatile Fatty Acids

Analyte recovery for Pyruvic Acid in the laboratory control sample was below laboratory control limits. Results for this analyte in associated samples may be bias low.

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ANALYTICAL RESULTS

Workorder: 2494 MICHIGAN PLAZA / M01046

Lab ID: **24940001** Date Received: 9/14/2011 08:46 Matrix: Water

Sample ID: **MMW-P-11S** Date Collected: 9/9/2011 11:45

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual	RegLmt
EDonors											
Analysis Desc: AM23G			Analytical Method: AM23G								
Lactic Acid	0.10 U	mg/l	0.10	0.010	1			9/14/2011 23:37	KB		
Acetic Acid	0.14	mg/l	0.070	0.0060	1			9/14/2011 23:37	KB		
Propionic Acid	0.066	mg/l	0.050	0.0070	1			9/14/2011 23:37	KB		
Butyric Acid	0.050 U	mg/l	0.050	0.0040	1			9/14/2011 23:37	KB		
Pyruvic Acid	0.15 U	mg/l	0.15	0.033	1			9/14/2011 23:37	KB		
i-Pentanoic Acid	0.15 U	mg/l	0.15	0.044	1			9/14/2011 23:37	KB		
Pentanoic Acid	0.070 U	mg/l	0.070	0.012	1			9/14/2011 23:37	KB		
i-Hexanoic Acid	0.050 U	mg/l	0.050	0.0060	1			9/14/2011 23:37	KB		
Hexanoic Acid	0.13	mg/l	0.050	0.0060	1			9/14/2011 23:37	KB		

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ANALYTICAL RESULTS

Workorder: 2494 MICHIGAN PLAZA / M01046

Lab ID: **24940002** Date Received: 9/14/2011 08:46 Matrix: Water

Sample ID: **MMW-P-11D** Date Collected: 9/9/2011 11:16

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual	RegLmt
EDonors											
Analysis Desc: AM23G			Analytical Method: AM23G								
Lactic Acid	0.10	U mg/l	0.10	0.010	1			9/15/2011 00:20	KB		
Acetic Acid	7.6	mg/l	0.070	0.0060	1			9/15/2011 00:20	KB		
Propionic Acid	0.050	U mg/l	0.050	0.0070	1			9/15/2011 00:20	KB		
Butyric Acid	0.050	U mg/l	0.050	0.0040	1			9/15/2011 00:20	KB		
Pyruvic Acid	0.15	U mg/l	0.15	0.033	1			9/15/2011 00:20	KB		
i-Pentanoic Acid	0.15	U mg/l	0.15	0.044	1			9/15/2011 00:20	KB		
Pentanoic Acid	0.070	U mg/l	0.070	0.012	1			9/15/2011 00:20	KB		
i-Hexanoic Acid	0.050	U mg/l	0.050	0.0060	1			9/15/2011 00:20	KB		
Hexanoic Acid	0.050	U mg/l	0.050	0.0060	1			9/15/2011 00:20	KB		

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ANALYTICAL RESULTS

Workorder: 2494 MICHIGAN PLAZA / M01046

Lab ID: **24940003** Date Received: 9/14/2011 08:46 Matrix: Water

Sample ID: **MMW-P-12S** Date Collected: 9/9/2011 15:33

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual	RegLmt
EDonors											
Analysis Desc: AM23G			Analytical Method: AM23G								
Lactic Acid	0.26	mg/l	0.10	0.010	1			9/15/2011 01:02	KB		
Acetic Acid	0.097	mg/l	0.070	0.0060	1			9/15/2011 01:02	KB		
Propionic Acid	0.069	mg/l	0.050	0.0070	1			9/15/2011 01:02	KB		
Butyric Acid	0.050 U	mg/l	0.050	0.0040	1			9/15/2011 01:02	KB		
Pyruvic Acid	0.15 U	mg/l	0.15	0.033	1			9/15/2011 01:02	KB		
i-Pentanoic Acid	0.15 U	mg/l	0.15	0.044	1			9/15/2011 01:02	KB		
Pentanoic Acid	0.070 U	mg/l	0.070	0.012	1			9/15/2011 01:02	KB		
i-Hexanoic Acid	0.050 U	mg/l	0.050	0.0060	1			9/15/2011 01:02	KB		
Hexanoic Acid	0.050 U	mg/l	0.050	0.0060	1			9/15/2011 01:02	KB		

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ANALYTICAL RESULTS

Workorder: 2494 MICHIGAN PLAZA / M01046

Lab ID: **24940004** Date Received: 9/14/2011 08:46 Matrix: Water

Sample ID: **MMW-P-12D** Date Collected: 9/9/2011 15:05

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual	RegLmt
EDonors											
Analysis Desc: AM23G			Analytical Method: AM23G								
Lactic Acid	0.28	mg/l	0.10	0.010	1			9/15/2011 01:44	KB		
Acetic Acid	0.15	mg/l	0.070	0.0060	1			9/15/2011 01:44	KB		
Propionic Acid	0.066	mg/l	0.050	0.0070	1			9/15/2011 01:44	KB		
Butyric Acid	0.050 U	mg/l	0.050	0.0040	1			9/15/2011 01:44	KB		
Pyruvic Acid	0.15 U	mg/l	0.15	0.033	1			9/15/2011 01:44	KB		
i-Pentanoic Acid	0.15 U	mg/l	0.15	0.044	1			9/15/2011 01:44	KB		
Pentanoic Acid	0.070 U	mg/l	0.070	0.012	1			9/15/2011 01:44	KB		
i-Hexanoic Acid	0.050 U	mg/l	0.050	0.0060	1			9/15/2011 01:44	KB		
Hexanoic Acid	0.16	mg/l	0.050	0.0060	1			9/15/2011 01:44	KB		

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ANALYTICAL RESULTS

Workorder: 2494 MICHIGAN PLAZA / M01046

Lab ID: **24940005** Date Received: 9/14/2011 08:46 Matrix: Water

Sample ID: **MMW-P-13S** Date Collected: 9/9/2011 13:38

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual	RegLmt
EDonors											
Analysis Desc: AM23G			Analytical Method: AM23G								
Lactic Acid	0.45	mg/l	0.10	0.010	1			9/15/2011 02:26	KB		
Acetic Acid	0.087	mg/l	0.070	0.0060	1			9/15/2011 02:26	KB		
Propionic Acid	0.065	mg/l	0.050	0.0070	1			9/15/2011 02:26	KB		
Butyric Acid	0.050 U	mg/l	0.050	0.0040	1			9/15/2011 02:26	KB		
Pyruvic Acid	0.15 U	mg/l	0.15	0.033	1			9/15/2011 02:26	KB		
i-Pentanoic Acid	0.15 U	mg/l	0.15	0.044	1			9/15/2011 02:26	KB		
Pentanoic Acid	0.070 U	mg/l	0.070	0.012	1			9/15/2011 02:26	KB		
i-Hexanoic Acid	0.092	mg/l	0.050	0.0060	1			9/15/2011 02:26	KB		
Hexanoic Acid	0.38	mg/l	0.050	0.0060	1			9/15/2011 02:26	KB		

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ANALYTICAL RESULTS

Workorder: 2494 MICHIGAN PLAZA / M01046

Lab ID: **24940006** Date Received: 9/14/2011 08:46 Matrix: Water

Sample ID: **MMW-P-13D** Date Collected: 9/9/2011 14:15

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual	RegLmt
EDonors											
Analysis Desc: AM23G			Analytical Method: AM23G								
Lactic Acid	0.22	mg/l	0.10	0.010	1			9/15/2011 03:08	KB		
Acetic Acid	0.52	mg/l	0.070	0.0060	1			9/15/2011 03:08	KB		
Propionic Acid	0.076	mg/l	0.050	0.0070	1			9/15/2011 03:08	KB		
Butyric Acid	0.050 U	mg/l	0.050	0.0040	1			9/15/2011 03:08	KB		
Pyruvic Acid	0.15 U	mg/l	0.15	0.033	1			9/15/2011 03:08	KB		
i-Pentanoic Acid	0.15 U	mg/l	0.15	0.044	1			9/15/2011 03:08	KB		
Pentanoic Acid	0.070 U	mg/l	0.070	0.012	1			9/15/2011 03:08	KB		
i-Hexanoic Acid	0.050 U	mg/l	0.050	0.0060	1			9/15/2011 03:08	KB		
Hexanoic Acid	0.42	mg/l	0.050	0.0060	1			9/15/2011 03:08	KB		

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 2494 MICHIGAN 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: 2494 MICHIGAN PLAZA / M01046

QC Batch: EDON/1101 Analysis Method: AM23G

QC Batch Method: AM23G

Associated Lab Samples: 24940001, 24940002, 24940003, 24940004, 24940005, 24940006

METHOD BLANK: 4537

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
EDonors				
Lactic Acid	mg/l	0.10 U	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: 4538

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
EDonors						
Lactic Acid	mg/l	2	2.0	100	70-130	
Acetic Acid	mg/l	2	2.0	100	70-130	
Propionic Acid	mg/l	2	1.9	94	70-130	
Butyric Acid	mg/l	2	1.8	91	70-130	
Pyruvic Acid	mg/l	2	1.4	69	70-130	
i-Pentanoic Acid	mg/l	2	1.8	91	70-130	
Pentanoic Acid	mg/l	2	1.5	76	70-130	
i-Hexanoic Acid	mg/l	2	1.6	81	70-130	
Hexanoic Acid	mg/l	2	1.5	77	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4539 4540 Original: 24190001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	RPD Qualifiers
EDonors										
Lactic Acid	mg/l	4.6	2	3.5	3.4	-59	-63	70-130		
Acetic Acid	mg/l	26	2	30	30	210	210	70-130		
Propionic Acid	mg/l	12	2	13	13	55	55	70-130		

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QUALITY CONTROL DATA

Workorder: 2494 MICHIGAN PLAZA / M01046

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4539 4540 Original: 24190001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Butyric Acid	mg/l	1.5	2	3.5	3.6	100	110	70-130	9.5	30	
Pyruvic Acid	mg/l	0	2	1.9	1.9	96	96	70-130	0	30	
i-Pentanoic Acid	mg/l	0.48	2	2.4	2.6	97	100	70-130	3	30	
Pentanoic Acid	mg/l	0.48	2	2.4	2.5	94	100	70-130	6.2	30	
i-Hexanoic Acid	mg/l	0.34	2	1.7	1.9	70	78	70-130	11	30	
Hexanoic Acid	mg/l	0	2	1.8	1.8	91	92	70-130	1.1	30	

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 2494 MICHIGAN PLAZA / M01046

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
24940001	MMW-P-11S			AM23G	EDON/1101
24940002	MMW-P-11D			AM23G	EDON/1101
24940003	MMW-P-12S			AM23G	EDON/1101
24940004	MMW-P-12D			AM23G	EDON/1101
24940005	MMW-P-13S			AM23G	EDON/1101
24940006	MMW-P-13D			AM23G	EDON/1101

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2494

Mundell
Consulting Professionals
for the Earth and the Environment

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

Required Client Information: Section A		Required Project Information: Section B		Invoice Information: Section C	
Company: Mundell & Associates, Inc.		Report To: Sarah Webb		Attention: Merle Tebbe	
Address: 110 South Downey Avenue		Email: swebb@mundellassociates.com		Company Name: Mundell & Associates, Inc.	
Indianapolis, Indiana 46219		Copy To:		Address: 110 South Downey Avenue	Regulatory Agency: IDEM
Phone: 317-630-9060	Fax: 317-630-9065	P.O. M01046		Lab Quote Reference:	Cooresponding Reg. Criteria: 2009 RISC Residential Default
Requested Due Date/TAT: Standard		Project Name: Crescent Cleaners		Lab Project Number	**Note: Method Detection Limits MUST Meet Criteria for Cooresponding Regulatory Program
		Site Location (City, State) Evansville, Indiana		Lab Profile #:	

Required Client Information: **Section D**

Valid Matrix Codes

Matrix	Code
Water	WT
Soil	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

SAMPLE ID (One character per box.)

ITEM NUMBER	SAMPLE ID	MATRIX CODE	DATE COLLECTED	TIME COLLECTED	Total # Containers	Preservatives: Unpreserved	Preservatives: BAK	Requested Analysis: VFAs (AM23G)	REMARKS / Lab ID
1	MMW-P-11S	WT	9/9/2011	1145	2		X	X	
2	MMW-P-11D	WT	9/9/2011	1116	2		X	X	
3	MMW-P-12S	WT	9/9/2011	1533	2		X	X	
4	MMW-P-12D	WT	9/9/2011	1505	2		X	X	
5	MMW-P-13S	WT	9/9/2011	1338	2		X	X	
6	MMW-P-13D	WT	9/9/2011	1415	2		X	X	
7									
8									
9									
10									
11									
12									

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	ITEM #	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
FEDEX		9/12/11	1		Sarah E Webb MJA	9/12/11	1400	H Lanton Microsoft	9/13/11 PS	1040

SAMPLE CONDITION:

Temp in C	
Received on Ice	Y / N
Sealed Cooler	Y / N
Sample Intact	Y / N

SAMPLE NOTES:

Additional Comments:

SAMPLER NAME(S) AND SIGNATURE(S)

PRINT Name(s) of SAMPLER(S): Sarah Webb

SIGNATURE of SAMPLER(S): Sarah E Webb

DATE Signed: 9/12/11

16°C

Microseeps Project Number: 2494

Date: 9/13/11 Time of Receipt: 1120 Receiver: Hdan Young

Client: Mundell

REASON FOR NON-CONFORMANCE:

Mundell Project: Crescent Cleaners. M01046
Samples were receipt with temprature
@ 16 °C. Melt-ice presented

ACTION TAKEN:

Client name: Sarah Webb Date: 9/13/11 Time: email.

OK to proceed per Sarah.
-Correct client project name+number - See attached email.

Customer Service Initials: KC Date: 9/13/11

2494

Robbin Robl

From: Sarah Webb [SWEBB@MUNDELLASSOCIATES.COM]
Sent: Tuesday, September 13, 2011 1:13 PM
To: Robbin Robl
Subject: RE: Crescent Cleaners

Actually, that's my Plaza Site with an error on the Site name and city. I'm very sorry about that.

The Site is Michigan Plaza M01046, Indianapolis, IN.

Go ahead with the analyses.

Thanks.

From: Robbin Robl [mailto:rrobl@microseeps.com]
Sent: Tuesday, September 13, 2011 12:01 PM
To: Sarah Webb
Subject: RE: Crescent Cleaners

Definitely Crescent – here is a copy of the COC.

From: Sarah Webb [mailto:SWEBB@MUNDELLASSOCIATES.COM]
Sent: Tuesday, September 13, 2011 11:56 AM
To: Robbin Robl
Subject: RE: Crescent Cleaners

Crescent or Plaza?

Just do the analyses if it's Plaza.

From: Robbin Robl [mailto:rrobl@microseeps.com]
Sent: Tuesday, September 13, 2011 11:53 AM
To: Sarah Webb
Subject: Crescent Cleaners

Hi Sarah,

We received samples today for your project Crescent Cleaners. The samples were received on ice, however, the ice was melted and the cooler temp. was 16°C.

Unless otherwise stated, we will proceed with the analysis.

Thank you!
Robbin

Robbin Robl
Microseeps, Inc.
220 William Pitt Way
Pittsburgh, PA 15238
Phone: 412-826-5245

2494

Fax: 412-826-3433
www.microseeps.com

Check out our blog, Insituation, for discussions and insights into our cutting edge tools!

APPENDIX C

Geophysical Survey Investigation Report

110 South Downey Avenue, Indianapolis, Indiana 46219-6406
Telephone 317-630-9060, Facsimile 317-630-9065
www.MundellAssociates.com

March 16, 2012

Ms. Carmen Anderson
Voluntary Remediation Program
Indiana Department of Environmental Management
Office of Land Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

Re: Report of Geophysical Survey Investigation
Michigan Plaza Property
3801 – 3823 West Michigan Street
Indianapolis, Indianapolis
MUNDELL Project No. M01046

Dear Ms. Anderson:

MUNDELL & ASSOCIATES, INC. (MUNDELL) is pleased to provide the Indiana Department of Environmental Management (IDEM) with this report documenting geophysical survey investigation activities completed at the above-referenced project site (the "Site") and surrounding areas during 2011. The primary objective of these efforts was to develop a detailed geologic and hydrogeologic interpretation of the surrounding area for the purpose of understanding existing chlorinated groundwater impacts observed not only at the Site, but also in residential drinking water wells located west of the property on Vermont Street and Cossell Road in Indianapolis, Indiana. In particular, this geophysical investigation was intended to provide a more complete understanding of the thickness and distribution of the upper sand and gravel unit in the area and the topographic expression of the base of this unit defined by an upper glacial till unit.

Geophysical field activities were performed by MUNDELL on April 21, August 25, September 14 and 15, October 3 and 4, and November 8, 2011. Additionally, MUNDELL had previously collected a single two-dimensional resistivity profile (cross-section) line on August 19, 2004, which is also discussed in this report. Our documentation of the scope, activities, and findings of this investigation is provided in the following paragraphs.

Background and Scope of Investigation

The area of study includes land near Holt Road and south and west of Little Eagle Creek, and north of Eagle Creek in the vicinity of the project site where previous chlorinated solvent groundwater impacts have been observed. This includes: the Michigan Meadows

Apartment Complex north of the Site, the Site itself (*i.e.*, the Michigan Plaza property), the Floral Park Cemetery south of Michigan Plaza, and the residential area west of Holt Road that includes properties along Vermont Street and Cossell Road. Identified sources of chlorinated solvent releases in the area include the Genuine Site immediately north of Little Eagle Creek and Michigan Meadows Apartments, Allison Plant 12 northwest of this area, and Michigan Plaza.

As part of this investigation, seven (7) resistivity profiles (cross-sections), four (4) seismic refraction profiles and thirteen (13) downhole geophysical logs of selected monitoring wells were collected in this area. An aerial photo of the Site and surrounding area, overlaid with the monitoring well locations and resistivity/seismic line locations is presented as **Figure 1,** The locations of the profile lines were selected to increase the subsurface geologic understanding north and upgradient of Michigan Plaza (from near the Genuine Site through Michigan Meadows Apartments), south and downgradient of Michigan Plaza (through the northern portion of Floral Park Cemetery), and west and cross-gradient of Michigan Plaza (in the direction of the Vermont Street residential homes).

Geophysical Methodologies

The objective of this geophysical survey investigation was to supplement the existing subsurface soil and bedrock stratigraphic information collected during the advancement of previous soil borings with additional high density geophysical data to more accurately map the upper sand and gravel water-bearing unit and top of the upper fine-grained glacial till unit previously identified. In addition, downhole geophysical logging of 13 site monitoring wells that had been installed with portions of the borings blank drilled was completed to supplement geologic descriptions at those locations and to verify the accurate placement of well screens for groundwater monitoring purposes.

The bedrock in this area is composed of mostly interbedded shale and limestone of the Borden Group, with the unconsolidated overburden materials being composed of variable thicknesses of outwash sands and gravels overlying complexly interbedded sand and gravel deposits and glacial tills. To best map the sand and gravel thickness and identify the outwash/till interface, two geophysical methods were selected. Two-dimensional electrical resistivity imaging (2D ERI) was selected as the primary method for mapping this interface, while seismic refraction was used as a supplemental method for detecting its surface, as well as the soil-bedrock interface. Finally, natural gamma and electromagnetic (EM) conductivity logs were collected in the thirteen (13) monitoring wells to provide documentation of the materials in which the well screens were placed relative to the sand and gravel unit being monitored. A brief description of these techniques is presented in the sections below.

Two-Dimensional Electrical Resistivity

Electrical resistivity is one of the most widely-varying of the physical properties of natural materials. Certain minerals, such as native metals and graphite, conduct electricity via the passage of electrons; however, electronic conduction is generally very rare in the subsurface. Most minerals and rocks are insulators, and electrical current preferentially travels through the water-filled pores in soils and rocks by the passage of the free ions in pore waters (i.e., ionic conduction). It thus follows that degree of saturation, interconnected porosity, and water chemistry (i.e., total dissolved solids) are the major controlling variables of the resistivity of soils and rocks. In general, electrical resistivity directly varies with changes in these parameters. Fine-grained sediments, particularly clay-rich sediments such as glacial till, are excellent conductors of electricity, often much better than fresh water found in the pores of sand and gravel. Carbonate rocks (i.e., limestone and dolomite) are very electrically resistive when they are unfractured, but can have significantly lower resistivity values when fractured and/or solutioned, or when interbedded with low resistivity materials such as shale or clay.

For this project, seven (7) resistivity profiles were collected using a SuperSting R8 Resistivity Imaging System manufactured by *Advanced Geosciences, Inc*., using either a Schlumberger (*Line 1*) or dipole-dipole (*Lines 2* through *6* and *2004 Line*) array and a variable number of electrodes and electrode spacings, depending on the resolution required and the area available for data acquisition. *Line* 1 was collected by compiling two electrode spreads into one continuous spread of 89 electrodes, spaced at 3 meters distances (approximately 9.8 feet) along the line. *Lines 2* and *5* consisted of 56 electrode spreads spaced at 3 meters; *Line 3* was composed of a 56 electrode spread spaced at 4 meters (approximately 13.1 feet). *Line 4* and the *2004 Line* consist of 56 electrodes each, spaced at 3.5 meters (approximately 11.5 feet). Finally, *Line 6* consists of 84 electrodes spaced at 2 meters (approximately 6.6 feet). The locations of the 7 profile lines are shown on **Figure 1,** and presented individually as **Figures 2** through **8**.

Once the data were collected, they were downloaded to a computer and subsequently inverse-modeled using the software *Res2DINV v3.58* to obtain an “actual”, true resistivity cross-section of the subsurface. This is obtained through the process of generating a model resistivity cross-section, calculating the apparent resistivity pseudo-section that would result from such a model, and comparing the calculated pseudo-section to the one collected in the field. The model is then altered through a number of iterations until the two pseudo-sections closely match each other with a minimal error. At this point the model is considered to be a reasonable estimation of the true resistivities of the actual subsurface materials.

The resistivity cross sections presented in this report are 2-dimensional representations of the general distribution of electrical resistivity in the 3-dimensional subsurface. There is no unique direct conversion from resistivity values to lithology. However, based on site

knowledge and nearby borings, geometric shapes and relationships of various anomalies, and the observed ranges of resistivity values, reasonable geologic interpretations can be made. Very often an experienced professional interpreter can readily recognize geologic features on these cross-sections.

Seismic Refraction

Seismic refraction utilizes seismic shockwaves that travel downward from the ground surface where they are generated, refract along the boundaries between geologic layers, and return to the surface where they are measured and recorded. Minimally, this type of survey requires three pieces of field equipment: a seismic source (*e.g.*, typically a sledgehammer), a seismic receiver (*i.e.*, a geophone), and a timer (*e.g.*, a seismograph). The specific equipment used for this survey is a StrataView R24, 24-channel seismograph manufactured by *Geometrics*. This unit is a digital recording seismograph designed for refraction and shallow reflection surveys. Up to 24 geophone inputs are stored in digital memory, allowing the seismic wave traces to be inspected and modified before they are printed on the built-in plotter or alternatively, recorded to an internal hard drive for subsequent processing with the on-board computer or an external workstation. The receivers used in this survey are 4.5-hertz (Hz) vertical geophones, connected to the seismograph by two separate, 12-takeout cables.

A typical seismic refraction survey consists of firmly planting the geophones in the ground at an even spacing along a straight line. A seismic impulse (called a “shot,” since explosives have generally been used for larger seismic surveys used in oil and gas exploration) is generated at time, t = zero, then the seismograph records the geophones’ response over time as the seismic wave travels through the subsurface and back up to the geophones. Five shots are typically recorded for each seismic setup, or spread: one short offset at each end, one long offset at each end, and one in the center of the spread.

For this geophysical investigation, four (4) seismic refraction lines were collected using a sledgehammer as the energy source. These lines were designed to be co-linear with the locations of the resistivity *Lines 2* through *5*. The geophone spacing used for each line was the same as the electrode spacing of the resistivity lines, and five shots were generated per spread. As each shot was collected, the operator monitored the geophone responses to ensure the quality of the data being recorded. Upon completing all of the shots, the data were downloaded to a personal computer for processing and analysis.

Downhole Logging

In order to provide confirmation of the geologic conditions in the 13 monitoring wells where a portion of the well was blank drilled (see **Appendix A** for the original, incomplete boring logs, and **Figure 1** for the well identifications and locations), downhole geophysical logging was performed. Geophysical logging consists of techniques that can monitor specific

physical properties that are correlative to geological parameters. These methods can detect the geological materials outside of the well casing and annular fill materials, but can also be influenced by them. As such, borehole geophysical logging essentially provides a composite image of annular fill materials and the surrounding native geological materials.

MUNDELL collected downhole geophysical logs from the wells in question using a portable MGX system manufactured by the Mount Sopris Instrument Company in Golden, Colorado. This system is a digital, single-channel system designed primarily for shallow environmental and engineering studies. The logging system consists of two primary components. The first is the integrated logging control unit, which remains at the surface with the equipment operator, and the second component is the downhole-logging probe. The control unit is joined physically and electronically to the chosen downhole probe with a steel cable, approximately 600 feet in length, containing a single insulated signal wire. The steel cable is spooled on an integrated electric winch mechanism. The downhole position of the probe is measured to a precision of 0.01 feet with a digital odometer. The electrical signals transmitted by the downhole probe are passed from the winch to a signal processor within the logging unit. The processed digital data include the probe depth, speed, and the probe-specific measurements of the borehole. Data are recorded in a portable computer for real-time viewing, and storage for later analysis.

The geophysical probes used on this project include: 1) a natural gamma probe, and 2) an electromagnetic (EM) conductivity probe. Data from these probes were collected in a near-continuous manner as the probe was either lowered or raised in the borehole at a near-constant speed of 10 to 15 feet per minute depending on the probe. The following subsections describe these two techniques.

Natural Gamma Probe

A Mount Sopris HLP 2375/S natural gamma probe was used to provide information both about the geological conditions and some of the annular fill materials (sand pack and bentonite seal). The HLP 2375/S probe is a high sensitivity scintillometer that measures the gross natural gamma ray count. It has a relatively large sodium iodide crystal that optimizes the instrument sensitivity to the types of gamma rays generally encountered in annular fill, as well as other sedimentary materials. The data are presented in units of gamma ray counts per second (cps). Typical annular fill materials include grout, bentonite seal, granular filter materials for the screened interval, and possibly other objects such as metallic centralizers. Generally, materials such as bentonite and bentonite/cement grout emit a moderate to large amount of natural gamma rays. Most natural gamma ray emissions are caused by minerals containing potassium, uranium, and/or thorium. Clay minerals (which contain the radioactive isotope potassium-40) are generally the most commonly observed natural gamma emitters, and bentonite (which is a potassium-bearing clay mineral) can emit a significant amount of natural gamma rays. In contrast to bentonite,

clean quartz sand, which is usually used as the filter material, emits virtually no gamma rays, and the difference between the sand pack and the overlying bentonite seal in monitoring wells is generally very pronounced. Often times, the same principle can also be used to differentiate between differing geologic layers. The gamma logs are presented in **Appendix B**.

EM Conductivity Probe

A Geonics EM39 electromagnetic conductivity probe was used to provide information on the geologic materials outside the annular space, annular fill materials, and also to identify evidence of metallic objects such as centralizers, double well casings, or other metallic objects.

The operating principal for the EM39 probe is that the intensity of an induced secondary electromagnetic field is directly proportional to the electrical conductivity of materials such as rocks, soils, and fresh water. In fresh water environments, clay-rich sediments generally have higher electrical conductivity than do sands because there are layers of unbound cations and anions adsorbed to the outer surfaces of the clay minerals. In the presence of electrical current, these cations and anions are free to move and carry the electrical current.

The EM39 transmits a high frequency electromagnetic wave from a coil located at one end of the probe. At the other end of the probe is a receiver coil that detects the primary and secondary electromagnetic fields. The transmitted wave passes outside the well and into the formation to a distance of about three feet from the center of the hole. In the presence of a completely non-conductive medium, the receiver will only receive the primary transmitted wave. As the conductivity of the medium increases, the primary wave induces alternating electrical current flow in the formation that is of the same frequency as the transmitted wave. This induced current in turn creates a secondary magnetic field that the receiver also picks up. As the conductivity of the material increases, the strength of the secondary field also increases in a linear manner. This linear relationship breaks down in the presence of highly conductive materials such as steel casing (note that metal objects will register as negative or out-of-scale values) or centralizers. This probe outputs electrical conductivity in milliSiemens per meter (mS/m). The conductivity logs are presented in **Appendix B**.

Results of Geophysical Survey

Seven (7) resistivity and four (4) seismic profiles were collected to characterize the subsurface geology for this project (see **Figure 1** for the specific locations), and they are presented individually as vertical cross-sections in **Figures 2** through **8,** and overlain on the area map on **Figure 9**. The locations of borings/monitoring wells within about 50 ft of these geophysical profile lines are shown projected onto the profile lines in these figures for

informational purposes. Based on the resistivity results, it is apparent that the subsurface conditions underlying the site and surrounding area are fairly complex, with different conditions observed over distances of less than a hundred feet. However, while there is a great deal of variability among different profiles, they all show a similar general pattern:

- an *upper layer* of moderate to high resistivity (90 to 1,000 ohmmeters, *i.e.* yellow to purple in color) which ranges in thickness from approximately 16 to 55 feet;
- a *middle layer* of low to moderate resistivity (0 to 90 ohm-m, i.e. blue to green in color) which ranges in thickness from close to 0 to over 70 ft, with an average thickness between 40 to 65 feet, interbedded with small pockets of moderate to high resistivity material;
- A *lower layer* of intermixed low to high resistivity values.

Utilizing the existing subsurface information gathered in nearby borings, the general geologic pattern of these profile cross-sections is interpreted to be:

- Near surface, shallow sand and gravel outwash materials;
- Intermediate, fine-grained glacial till sediments made up of mostly silt and clay, which are intermixed with small pockets of varying amounts of sand, gravel, or regolith (note: lesser amounts of coarse-grained materials yield lower resistivity values while higher quantities yield higher resistivities); and
- At depth, an interbedded limestone/shale bedrock (with higher resistivity values indicating more limestone and lower resistivity values indicating more shale).

To determine the top of till and top of bedrock using seismic refraction, a three-layer model was used. The seismic velocities for the upper outwash layer ranged from 310 to 420 meters per second (approximately 1,010 to 1,380 feet per second). These velocities are consistent with sand and gravel. In contrast, the velocities of the glacial till layer ranged from 1,450 to 2,300 meters per second (approximately 4,760 to 7,540 feet per second), which is consistent with greater concentrations of fine grained soils. Finally, the bedrock layer, interpreted to be mostly composed of interbedded limestone and shale, ranged from 2,550 to 5,000 meters per second (approximately 8,360 to 16,400 feet per second). This range is consistent with interbedded limestone (3,500 to 6,500 meters per second) and shale (1,800 to 4,000 meters per second), with more weathered areas or areas containing more shale, having lower velocities.

Using the aforementioned seismic model and seismic velocities (where gathered – *Lines 2* through *5*), as well as the resistivity data (with the exception of *Line 1*, where electrical interference along the roadway added a certain amount of background 'noise' into the data and made accurate selection along the entire profile more difficult), an interpreted top of till (dotted-black lines) surface was generated for the Profile Lines (see **Figures 2** through **8**). Additionally, the seismic data was used to generate a top of bedrock (white-dashed lines)

surface on *Lines 2* through *5* as well. These interpreted surfaces have been overlaid on top of the resistivity cross-sections.

In general, the outwash-till interface (black-dotted line) is clearly seen on the seven resistivity profile lines (see **Figures 2** through **8**): the interpreted till surface typically closely mirrors the resistivity data (top of glacial till equals the boundary between yellow and green, *i.e*. 90 ohm-meters), which indicates a good correlation between the seismic and resistivity data. This interpreted surface is also consistent with most of the actual field data obtained from nearby soil borings and monitoring wells that were located in close proximity to the profile lines. As indicated in **Table 1**, which provides comparisons between the measured top-of-till surface at boring/monitoring well locations within about 50 ft of a resistivity/seismic profile line and the prediction made by the geophysical data itself along the profile line (as indicated by the black-dotted line), predicted top-of-till elevations for the 21 borings near the profile lines are typically within about 1 to 3 ft of the actual depth, with an average error of +/- 1.00 ft. Considering the till surface may vary by over 40 ft (from about El 665 to El 705) within the area studied, this indicates that the geophysical data provided a good prediction of the top-of-till surface over the range of variation observed.

It should be noted that the greatest variation between predicted and actual top of till elevations is along north-south Profile Line 2 near Holt Road. The geophysical data indicate a till surface 'high', whereas the boring data, which is about 20 ft from the line, indicate a deeper till surface (*e.g*., at MMW-P-14D, MW170D, EB-2). It should be noted that the 'potential' slope of the till surface in this area (as predicted by the geophysical data) is about 0.4 feet vertical change per foot of horizontal change, or, in other words, it may vary by as much as 21 ft vertically over a distance of 50 ft horizontally. Since the borings are a distance of about 20 ft from the line, this could explain the discrepancy. Since significant variations in the geologic character of the subsurface were observed along Profile Line 2 (see **Figure 3**), additional subsurface data west of this area, including the recently completed U.S. EPA study, will need to be used to provide data to develop further interpretations of the actual conditions.

Given the correlation between the predicted and actual top-of-till surface, the resistivity data may be used as a good approximation of the top of till surface on the *2004 Line* and Line *6* (**Figures 7** and **8**, respectively), where no seismic data was acquired. However, while the resistivity and seismic data correlates well in regards to the top of the glacial till surface, the correlation with the bedrock surface is more difficult. This is due to the variability in the actual bedrock material present beneath the overlying unconsolidated deposits along those profile lines (*i.e*., the interbedded limestone or shale) and the similarity between the magnitude of the resistivity for sand/gravel and limestone and silty clay and shale. Therefore, no attempt was made to interpret a top of bedrock surface based on the resistivity data alone on these profile lines.

Downhole Logging

Thirteen (13) EM conductivity and natural gamma downhole logs were collected from monitoring wells across the site where a portion of the well was blank drilled (see **Appendix A** for the original, incomplete boring logs). The locations of these wells are shown on **Figure 1** (denoted in red), and the logs are presented as **Appendix B. Table 2** summarizes the characteristics of the wells logged (blind drilled intervals, screen intervals, and depth of the geophysical log). While several thin, shallow clay lenses were detected in a few of these logs, the data suggest that the upper 20 to 45 feet of the subsurface is composed mostly of low-conductivity, low-natural gamma yielding sand and gravel, which is consistent with the resistivity data in the vicinity of the wells logged. As such, the wells were shown to be screened within the appropriate sand and gravel unit above the top of till layer and are, therefore, suitable for providing groundwater quality monitoring data.

Top of Glacial Till Map

After the individual resistivity cross-sections had been generated, the interpreted top of glacial till surface from the individual profiles was digitized and used in conjunction with all applicable soil boring and remediation injection logs to generate a top of glacial till topographic map for the area, which is presented as **Figure 10A**. Two characteristics of the glacial till surface are of key interest for aiding the interpretations of the source and trajectory of impacted chlorinated solvent groundwater, especially coming into the Michigan Plaza and leaving the Plaza property: 1) the immediate slope of the till surface near the Plaza, especially between the Michigan Plaza chemical source areas and the Vermont Street residences, and 2) the presence of any depressions or troughs in the till surface that may affect the general direction of groundwater flow in the deeper portion of the sand and gravel unit.

As indicated in **Figure 10A**, the till surface is relatively flat beneath the Michigan Plaza property and in the vicinity of the three chemical source areas. The till surface ranges from about elevation EL 675 to 680. Between the Plaza and Holt Road in the direction of the Vermont Street residents, the till surface remains relatively flat to the southwest and then begins to slope upward east of Holt Road. Directly west of the Plaza, the top of the till surface slopes upward and changes in elevation by as much as 20 ft, reaching near EL 700 east of Holt Road. Southeast of the Plaza, the till surface slopes downward to the southeast. These results support the conclusion that if the original releases of PCE had been significant enough at the Plaza to result in the solvent sinking through the entire upper sand and gravel unit to the till surface (and there is no evidence that they were), and pool on the surface in the form of a dense nonaqueous phase liquid (or DNAPL), this pure-phase liquid would not move in the direction of the Vermont Street residents. As such, this mechanism for the Plaza impacting the residential wells is not possible.

The mapped till surface data (combined with the horizontal resistivity 'slice' map of **Figure 11**, discussed in the next paragraph) clearly show several areas of higher resistivity troughs or incised valleys in the till surface, that could be acting as preferential pathways for the movement of deeper sand and gravel zone groundwater impacts. First, depressions in the till can be seen trending north to south, passing through the *2004 Line* between electrodes 9 to 13, and 16 to 28 (**Figure 8**); through *Line 6* between electrodes 1 to 14, 28 to 32, 37 to 42, and 52 to 58 (**Figure 7**); through *Line 5* between electrodes 18 to 26, to the west of Michigan Plaza (**Figure 6**), and finally through *Line 4* between electrodes 15 and 17 southwest of the Plaza, and Electrodes 31 to 34 near the southwest corner of the Plaza property (**Figure 5**). Additional depressions in the glacial till can be seen trending west to east across Holt Road, just south of *Line 6*; as well as one trending as west to east across Holt Road through *Line* 2 between electrodes 20 and 23 (**Figure 3**). These features are denoted on **Figure 10A** by red-dashed lines with arrows pointing in the downgradient direction.

Of significant interest in **Figure 10A** is the 'character' of the till surface observed between the Genuine Site to the north and the Plaza property. The data indicate that chlorinated solvent impacts 'enter' along the northern property line from the Genuine Site within deeper portions of the sand and gravel unit 'cut' into the surface, near about El 665 (see **Figure 8** previously described). As these deep groundwater impacts move to the south, portions of the top of the till surface rise in four 'knob-like' features, shown along *Profile Line 6* (**Figure 7**). These fine-grained 'hills' in the till surface act as barriers or impediments to the natural southerly flow of the deeper groundwater, and force the deeper groundwater to move 'around' these barriers. This behavior is shown in a conceptual site flow model for the Michigan Meadows Plaza and Apartment property illustrated in **Figure 10B**.

In **Figure 10B** the locations of these four 'knob' feature areas, which rise above El 685, are highlighted with brown-color filled contours when their elevation rises over about El 685, or 20 ft above the original base floor of the deeper impacted sand and gravel along the northern property line. The 'lower elevation' deep groundwater has been highlighted 'aqua' when the elevation of the top of till dips below El 670. As these deeper groundwaters pass around these 'hills' in the till surface and move south of *Profile Line 6*, they encounter two additional till 'ridges' near Michigan Street, and are directed around them by either following the low elevation troughs in the till surface (the deeper portions again highlighted in aqua), or the hydraulic paths of least resistance to normal hydraulic gradients. As shown by the blue 'arrows' indicating deep ground water flow direction in **Figures 10B,** this results in the deeper groundwaters north of Michigan Plaza being directed into three distinct areas south of Michigan Street:

1) *East of Michigan Plaza* – to the southeast between monitoring wells MMW-P-08 and MW-168S/D near previously identified ***Source Areas B*** and ***C*** (see main report) east of the eastern property line of Michigan Plaza;

2) *Immediately West of Michigan Plaza* – to the south, passing beneath Michigan Street through a north-south aligned till trough located near monitoring well MW-167S/D, and then near the western property line of the Plaza and to the southeast; and

3) *Further west of Michigan Plaza* – to the southwest, crossing Holt Road near its intersection with Michigan Street. This pathway is immediately west of a lower ridge feature, and can be more easily seen on the horizontal resistivity slice map (**Figure 11**) discussed below. This pathway includes deep groundwater moving southward parallel to Holt Road and within the Vermont Street residential area.

Deeper groundwater flow directions south of Michigan Street continue to be influenced by the slope and character of the till surface. As indicated in **Figure 10B**, flow east of the Plaza is to the southeast and unaffected by the slope and elevation of the till surface since it is in the direction of the natural hydraulic gradient and there are no till 'ridges' to redirect flow. Groundwater flow immediately west of the Plaza property is directed through a till trough area shown to be present along both *Profile Line 5* (**Figure 6**) and *Profile Line 4* (**Figure 5**). This trough is aligned in a north-south direction, and flow south of the Plaza begins to follow the natural groundwater flow direction to the southeast.

Further to the west, the deeper groundwater flow has been directed to the southwest around a till 'hill' located immediately southeast of the intersection of Holt Road and Michigan Street. This deeper groundwater then flows in a southerly direction, having passed to the west of Holt Road, until it takes the path of least resistance (*i.e.*, the lowest hydraulic gradient) to the southeast, which appears to occur in the vicinity of a till surface low south of monitoring well MW-170D near soil boring EB-2. Deeper groundwater flow then flows unaffected to the southeast.

It should be noted that all of these groundwater flow directions in the deep sand and gravel unit shown on **Figure 10B** are not just theoretical constructions, but have been confirmed by recent (1st Quarter 2012) groundwater gauging events that include the additional recent deep wells installed by MUNDELL, and additional wells by ENVIRON (see 2012 shallow and deep groundwater potentiometric surfaces shown on **Figures 16** and **17** in the main report). In addition, inspection of most recent (October 2011) cis-1,2-DCE and vinyl chloride plume maps for the deeper sand and gravel indicate the relative position of these plumes are consistent with the groundwater flow directions observed and the detailed geologic mapping of the lower till surface. As additional subsurface information west of Holt Road is

provided by the EPA study, it will be incorporated into these Michigan Plaza conceptual site flow models to refine the interpretations of the local flow conditions.

Horizontal Slice Map

In addition to the top of glacial till map, MUNDELL has generated a key horizontal resistivity 'slice' map (*i.e.*, a map of the resistivity at a constant topographic elevation) for elevation 670 feet by combining the individual resistivity cross-sectional values into a three-dimensional data set, and taking a slice at that particular horizontal interval. Elevation 670 feet was selected as significant, as this interval is located within the glacial till across about half of the site and surrounding area, and thus, shows the locations where permeable sand and gravel materials are likely present within 'valleys' or 'troughs' (shown as red-dashed lines) cut into the basal till. This map is presented as **Figure 11**.

The orientation and distribution of the deeper sand and gravels that fill these lower topographic features in the till can be seen by noting their presence shown in yellows and reds. These deeper higher permeability flow pathways correlate well with the top of till contours (**Figure 10A**), and recent potentiometric data collected for the deeper portion of the upper sand and gravel unit. Again, this correlation supports the conclusion that the surface character of the till (as well as the presence of outwash channels within the till) is controlling the deeper groundwater flow north of Michigan Street, especially in areas with the presence of 'knobs', 'ridges', 'hills', 'valleys' and 'troughs which either create resistance to groundwater flow or enhance groundwater flow, both of which have the effect of directing groundwater flow around or through these features.

It should be noted that the geophysical and boring data density collected is much greater east of Holt Road, and, as such, likely results in a much closer description of the subsurface conditions actually present in this area . Once the additional data collected by the U.S. EPA west of Holt Road in late 2011 is received, the interpretations made in **Figures 10A**, **10B**, and **11** can be updated to refine the conceptual models presented for this region.

Limitations

The results and interpretations of the geophysical survey performed are considered generally reliable and were conducted in a manner generally consistent with practitioners in the field of geophysical engineering. The data presented, used in conjunction with available soil boring data or future drilling activities, are considered to be of sufficient accuracy and precision to improve the evaluation of and provide a basis for a more detailed analysis of the subsurface geology and hydrogeology of the area studied. As additional subsurface information becomes available, it will be reviewed and incorporated into the existing body of information and the conceptual site flow models presented in this report.

We appreciate the opportunity to provide you with this geophysical survey. If you should have any questions, please do not hesitate to contact us at 317-630-9060.

Sincerely,
MUNDELL & ASSOCIATES, INC.

Gabriel Hebert
Project Geophysicist

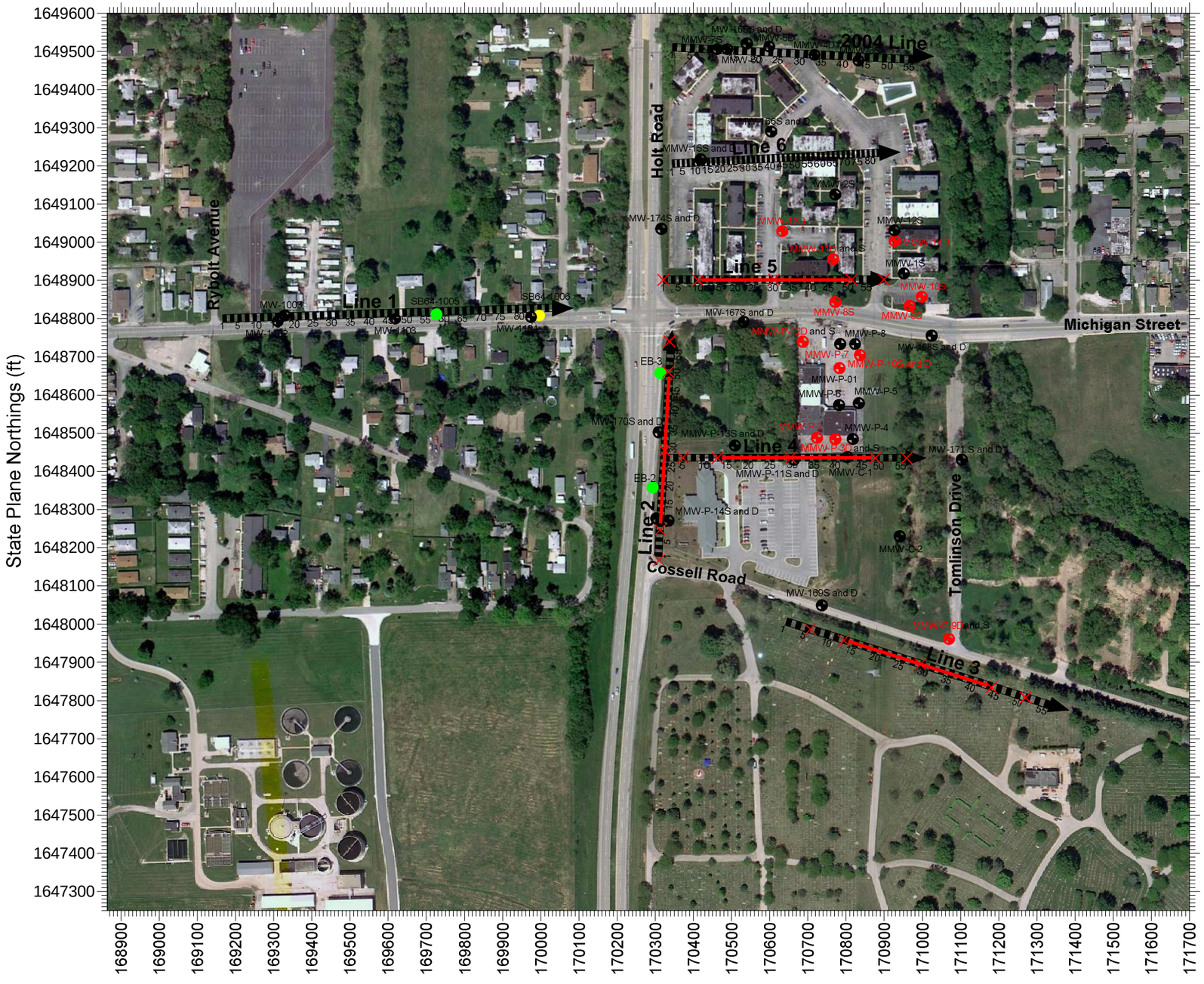
John A. Mundell, P.E., L.P.G.
President/Director of Geophysical Services

/jam

cc: Mr. Peter Cappel, AMMH

Attachments:

Figure 1.	Site Map
Figure 2.	Resistivity Profile Line 1
Figure 3.	Resistivity and Seismic Profile Line 2
Figure 4.	Resistivity and Seismic Profile Line 3
Figure 5.	Resistivity and Seismic Profile Line 4
Figure 6.	Resistivity and Seismic Profile Line 5
Figure 7.	Resistivity Profile Line 6
Figure 8.	2004 Resistivity Profile Line
Figure 9	Site Map with Resistivity Profiles
Figure 10A.	Top of Till Map from the Geophysical and Boring Data
Figure 10B.	Michigan Meadows Plaza and Apartments Conceptual Site Flow Model for the Deep Sand and Gravel Unit
Figure 11.	Resistivity Slice Map (670 Ft. Elevation)
Table 1.	Comparison of Actual and Predicted Top-of-Till Elevations
Table 2.	Summary of Monitoring Wells with Downhole Geophysical Logging Completed
Appendix A	Boring/Well Logs
Appendix B	Geophysical Well Logs



Seismic Line Location

Seismic Shot Location

Resistivity Line Location

Monitoring Well Location with Geophysical Log

Monitoring Well Location

N

Scale in Feet

0 100 200 300 400 500

1" = 300'

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REV.	DATE	DESCRIPTION	BY	APPR.

PROJECT NO.: M01046		FILE NO.: 2011 Resistivity.srf	
DRAWING:		PLOT SIZE:	11"x17"
DRAFTED BY:	GJH	DATE:	12/05/11
CHECKED BY:	GJH	DATE:	12/05/11
APPROVED BY:	JAM	DATE:	12/13/11

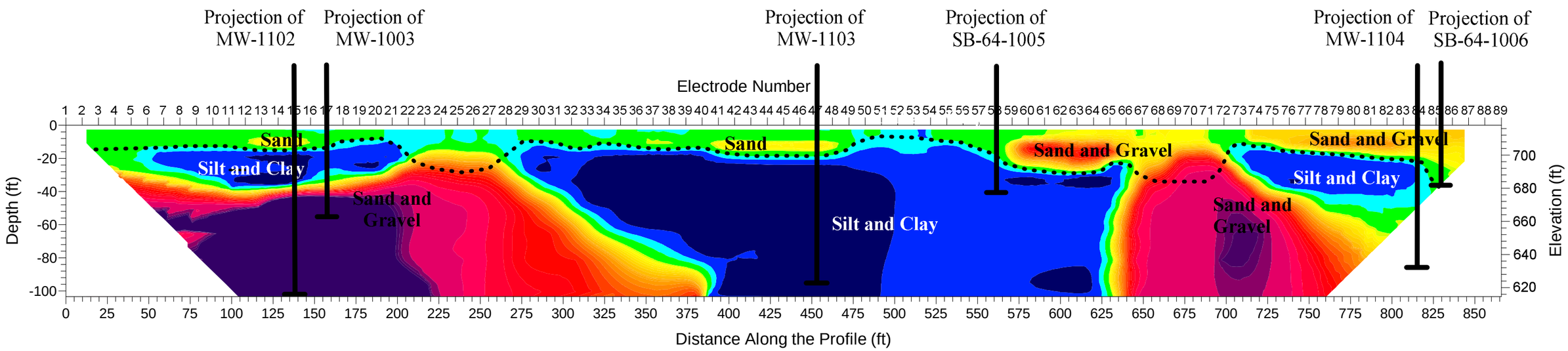
Site Map

Michigan Street
Indianapolis, Indiana
MUNDELL Project No. M01046

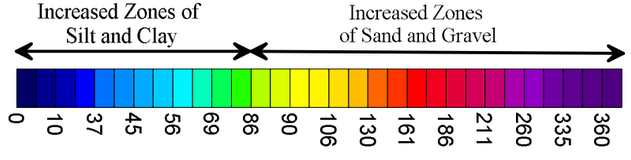
FIGURE
1

WEST

EAST



Resistivity
(Ohm-meters)



Interpreted Top of the Till from the Resistivity Data

Projected Location and Depth of Nearby Wells and Borings Along the Profile Line

PROCESSING STATISTICS
Number of Iterations: 5
RMS Error: 16.1%
Total Number of Data: 853
Maximum Misfit: 85%

Resistivity Profile Line 1

Michigan Street
Indianapolis, Indiana
MUNDELL Projectl No. M01046

FIGURE
2

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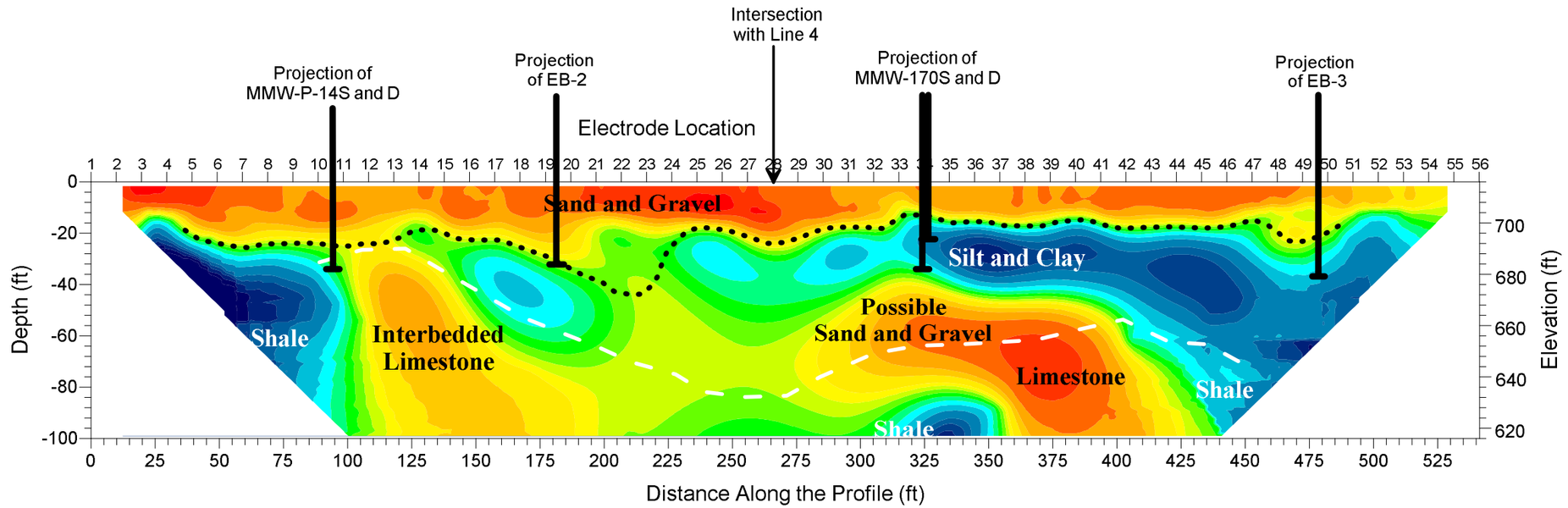
SOUTH

NORTH



PROCESSING STATISTICS
Number of Iterations: 3
RMS Error: 8.25%
Total Number of Data: 643
Maximum Misfit: 32%

Resistivity
(Ohm-meters)

Increased Zones of Silt and Clay (Shallow); Shale Bedrock (Deep)

Increased Zones of Sand and Gravel (Shallow); Limestone Bedrock (Deep)

-100 0 5 10 15 20 30 40 50 60 70 80 90 100 125 150 200 300 400 500 750 1000

Interpreted Top of the Till from the Resistivity and Seismic Data

Projected Location and Depth of Nearby Wells and Borings Along the Profile Line

Top of Bedrock From Seismic Data

Resistivity and Seismic Profile Line 2

Holt Road
Indianapolis, Indiana
MUNDELL Projectl No. M01046

FIGURE
3

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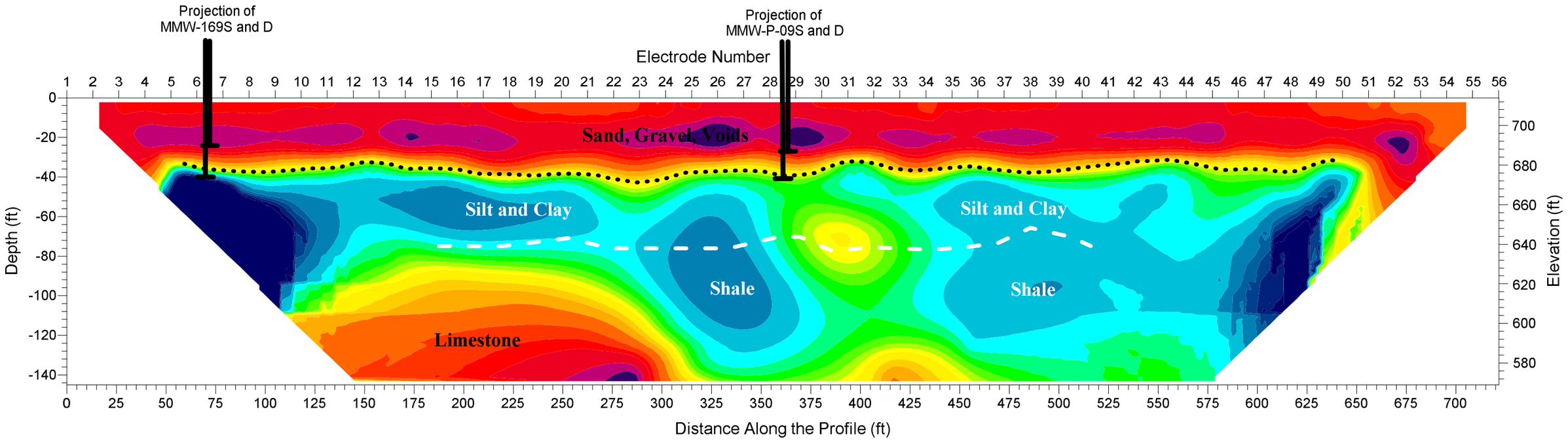
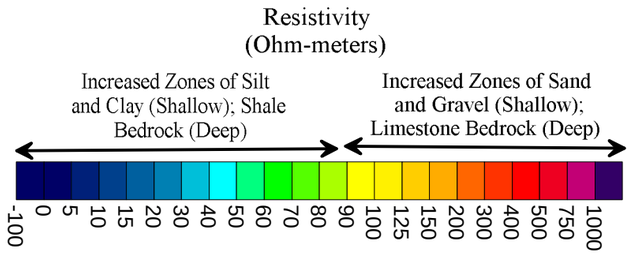
NORTHWEST SOUTHEAST



PROCESSING STATISTICS
Number of Iterations: 6
RMS Error: 7.34%
Total Number of Data: 681
Maximum Misfit: 30%



Interpreted Top of the Till from the Resistivity and Seismic Data

Top of Bedrock From Seismic Data

Projected Location and Depth of Nearby Wells and Borings Along the Profile Line

Resistivity Profile Line 3

Floral Park Cemetery
Indianapolis, Indiana
MUNDELL Projectl No. M01046

FIGURE
4

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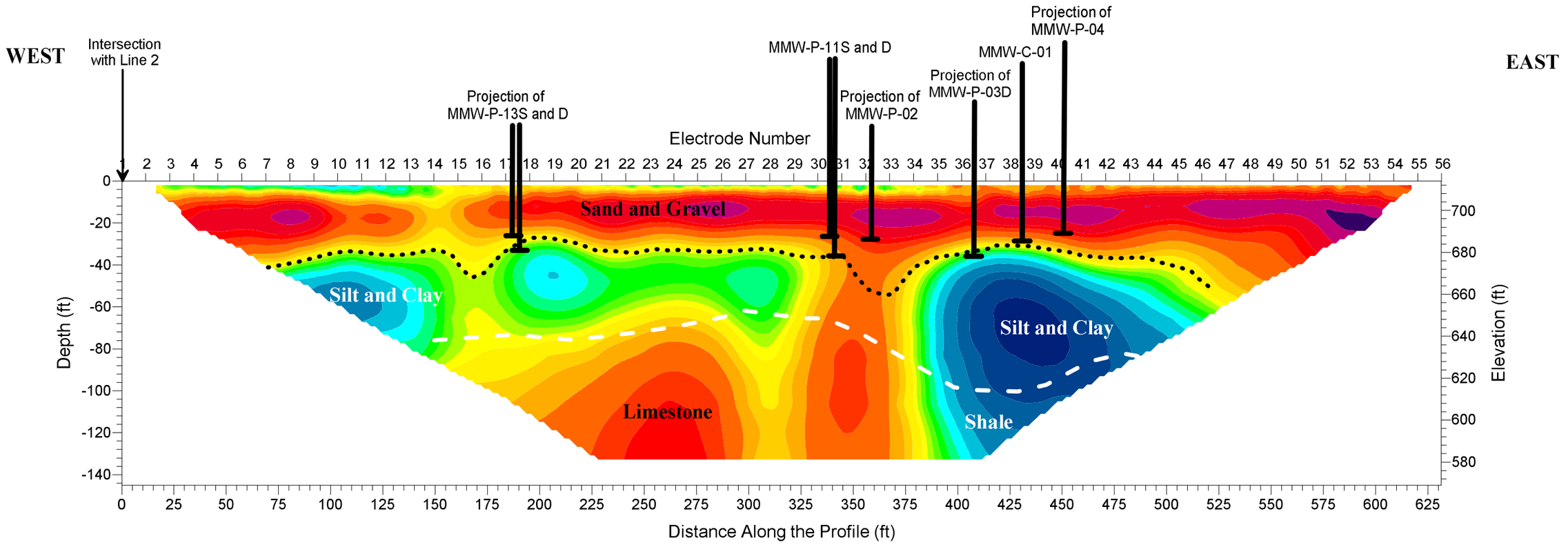

PROCESSING STATISTICS
Number of Iterations: 6
RMS Error: 10.2%
Total Number of Data: 645
Maximum Misfit: 39.5%

Resistivity
(Ohm-meters)

Increased Zones of Silt and Clay (Shallow); Shale Bedrock (Deep)

Increased Zones of Sand and Gravel (Shallow); Limestone Bedrock (Deep)

-100 0 5 10 15 20 30 40 50 60 70 80 90 100 125 150 200 300 400 500 750 1000

Interpreted Top of the Till from the Resistivity and Seismic Data

Projected Location and Depth of Nearby Wells and Borings Along the Profile Line

Top of Bedrock From Seismic Data

Resistivity Profile Line 4

Floral Park Cemetery
Indianapolis, Indiana
MUNDELL Projectl No. M01046

FIGURE
5

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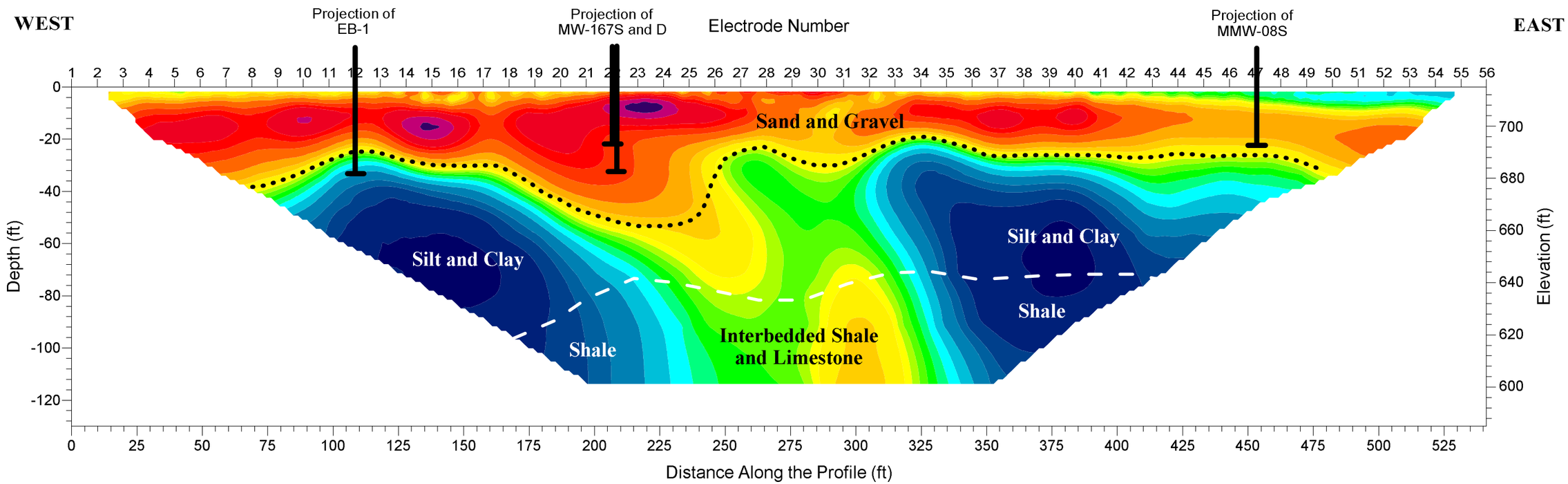

PROCESSING STATISTICS
Number of Iterations: 6
RMS Error: 11.94%
Total Number of Data: 644
Maximum Misfit: 39.9%

Resistivity
(Ohm-meters)

Increased Zones of Silt and Clay (Shallow); Shale Bedrock (Deep)

Increased Zones of Sand and Gravel (Shallow); Limestone Bedrock (Deep)

-100 0 5 10 15 20 30 40 50 60 70 80 90 100 125 150 200 300 400 500 750 1000

Interpreted Top of the Till from the Resistivity and Seismic Data

Top of Bedrock From Seismic Data

Projected Location and Depth of Nearby Wells and Borings Along the Profile Line

Resistivity Profile Line 5

Michigan Plaza Apartments
Indianapolis, Indiana
MUNDELL Projectl No. M01046

FIGURE
6

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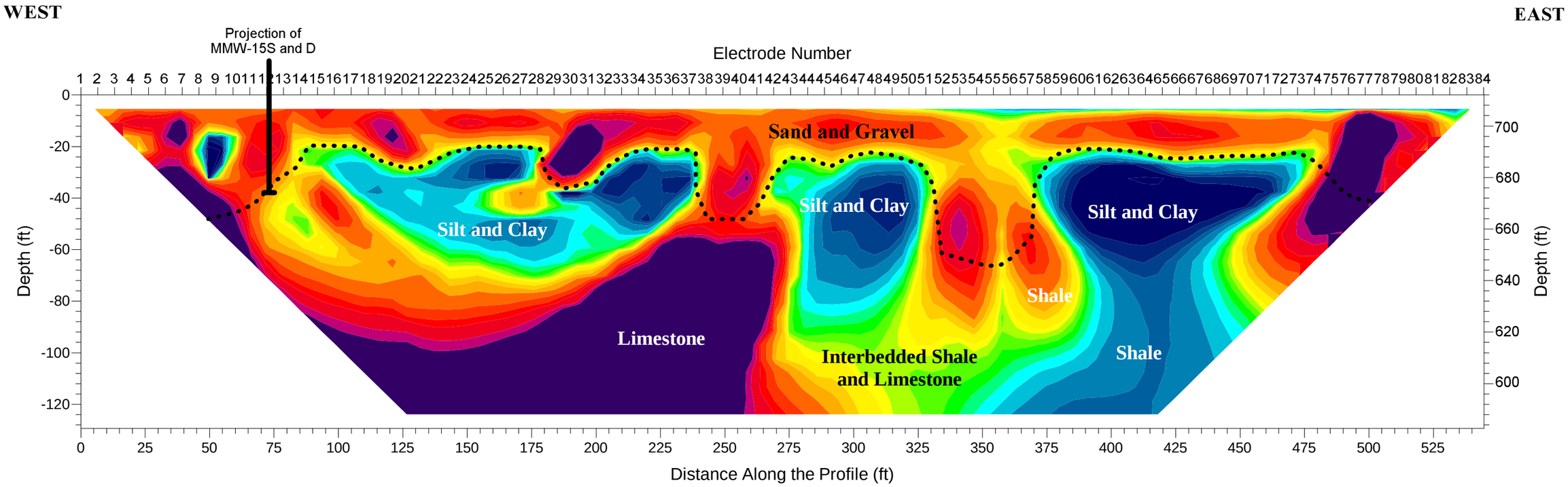

PROCESSING STATISTICS
Number of Iterations: 5
RMS Error: 23.86%
Total Number of Data: 1418
Maximum Misfit: 100%

Resistivity
(Ohm-meters)

Increased Zones of Silt and Clay (Shallow); Shale Bedrock (Deep)

Increased Zones of Sand and Gravel (Shallow); Limestone Bedrock (Deep)

-100 0 5 10 15 20 30 40 50 60 70 80 90 100 125 150 200 300 400 500 750 1000

Interpreted Top of the Till from the Resistivity Data

Projected Location and Depth of Nearby Wells and Borings Along the Profile Line

Resistivity Profile Line 6

Michigan Plaza Apartments
Indianapolis, Indiana
MUNDELL Projectl No. M01046

FIGURE
7

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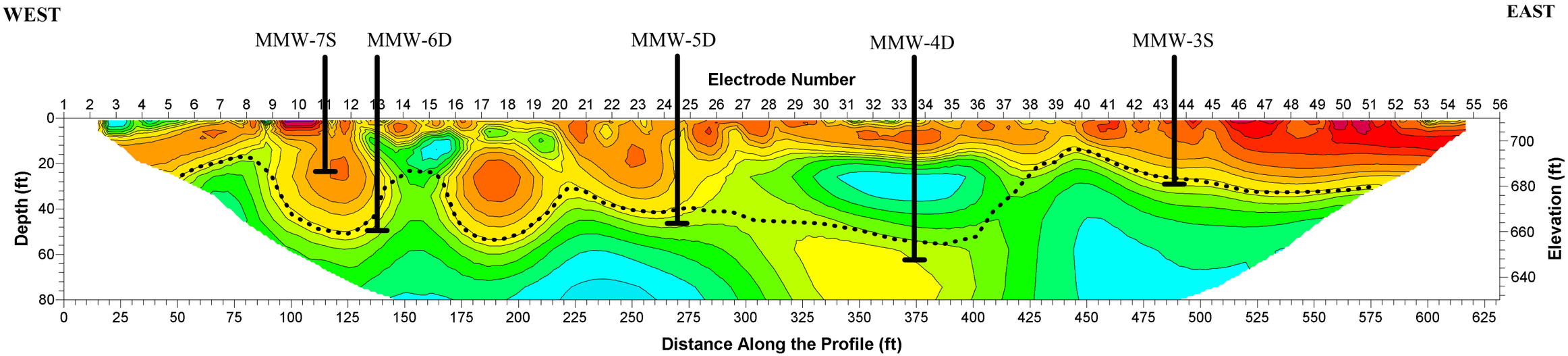
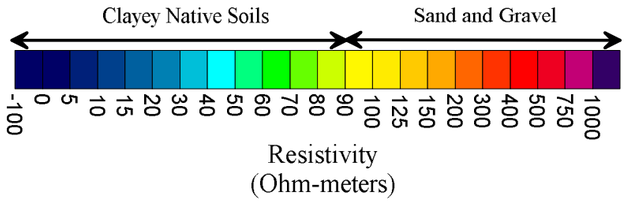
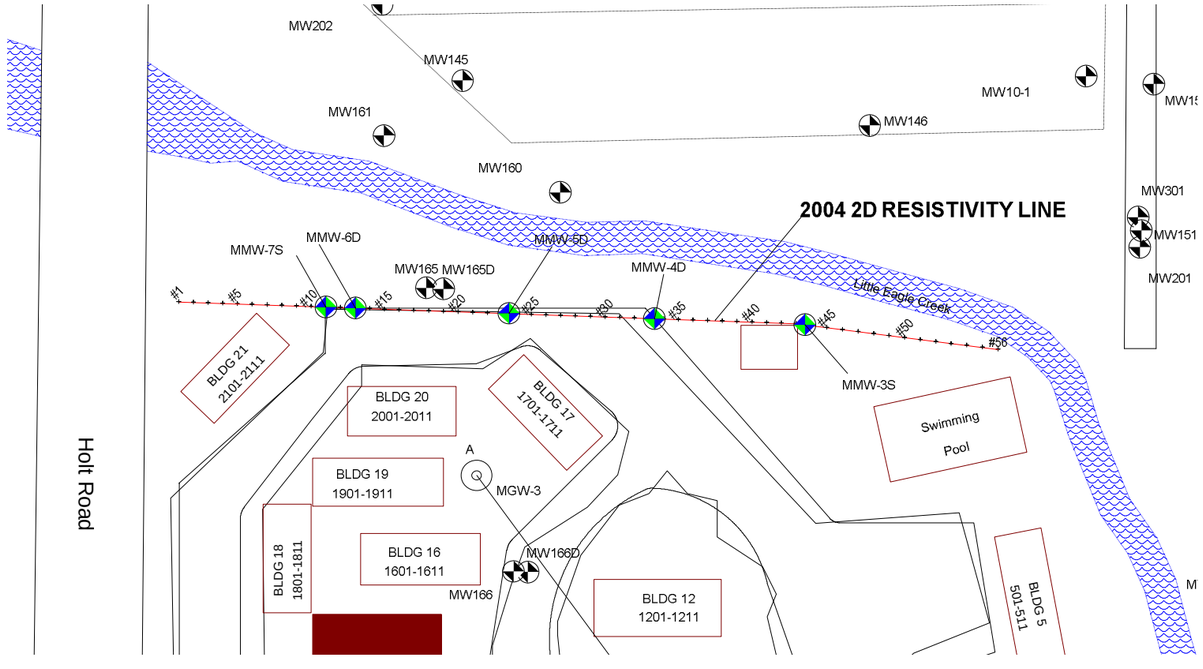




Interpreted Top of the Till from the Resistivity Data

Projected Location and Depth of Nearby Wells and Borings Along the Profile Line

Site Basemap



PROCESSING STATISTICS
Number of Iterations: 5
RMS Error: 8.4%
Total Number of Data: 908
Maximum Misfit: 35%

2004 Resistivity Profile Line
Northern Boundary of Michigan Meadows Apartments
Michigan Street
Indianapolis, Indiana
MUNDELL Projectl No. M01046

FIGURE
8

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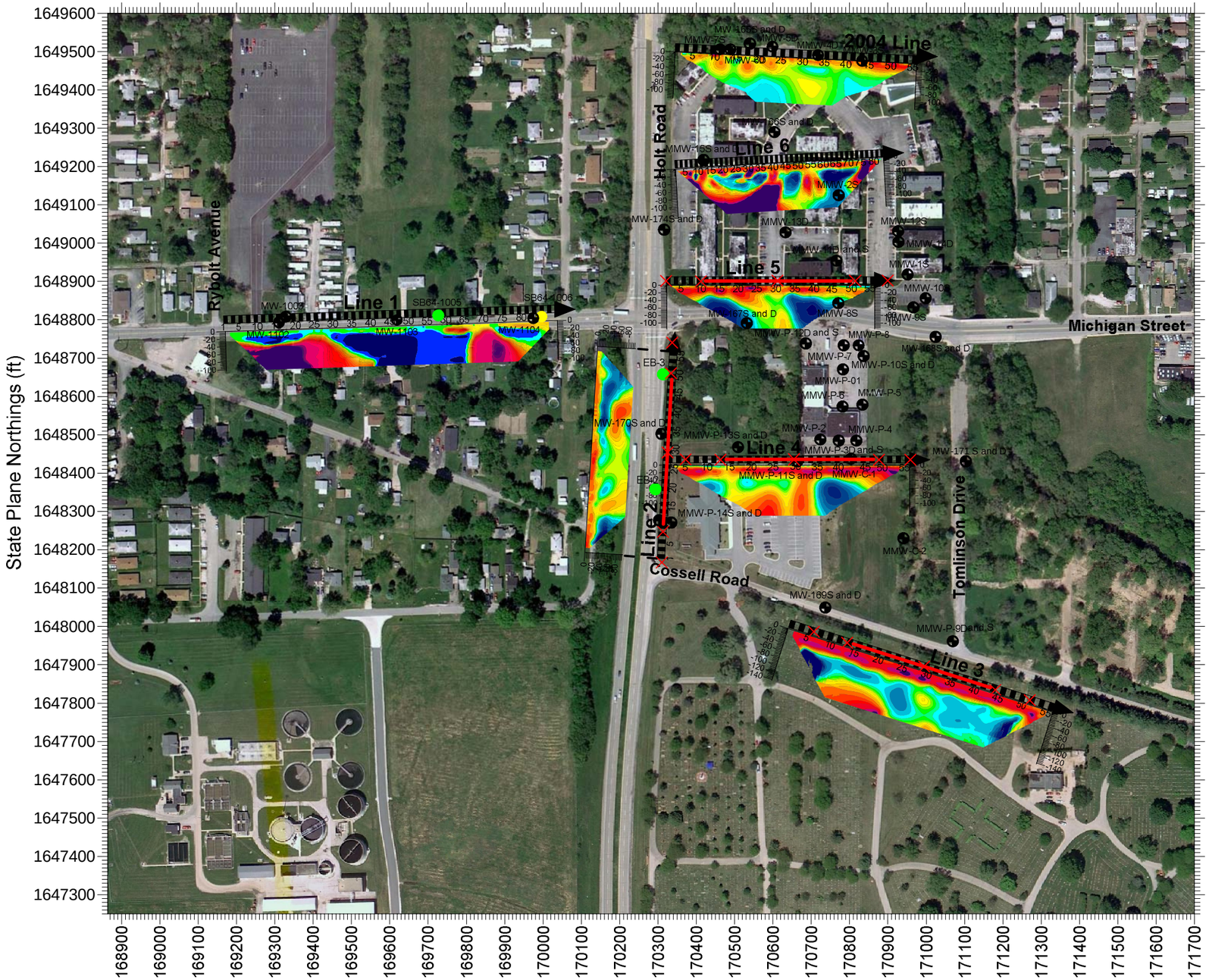

Seismic Line Location

Seismic Shot Location

Resistivity Line Location

Monitoring Well Location

N

Scale in Feet

0 100 200 300 400 500

1" = 300'

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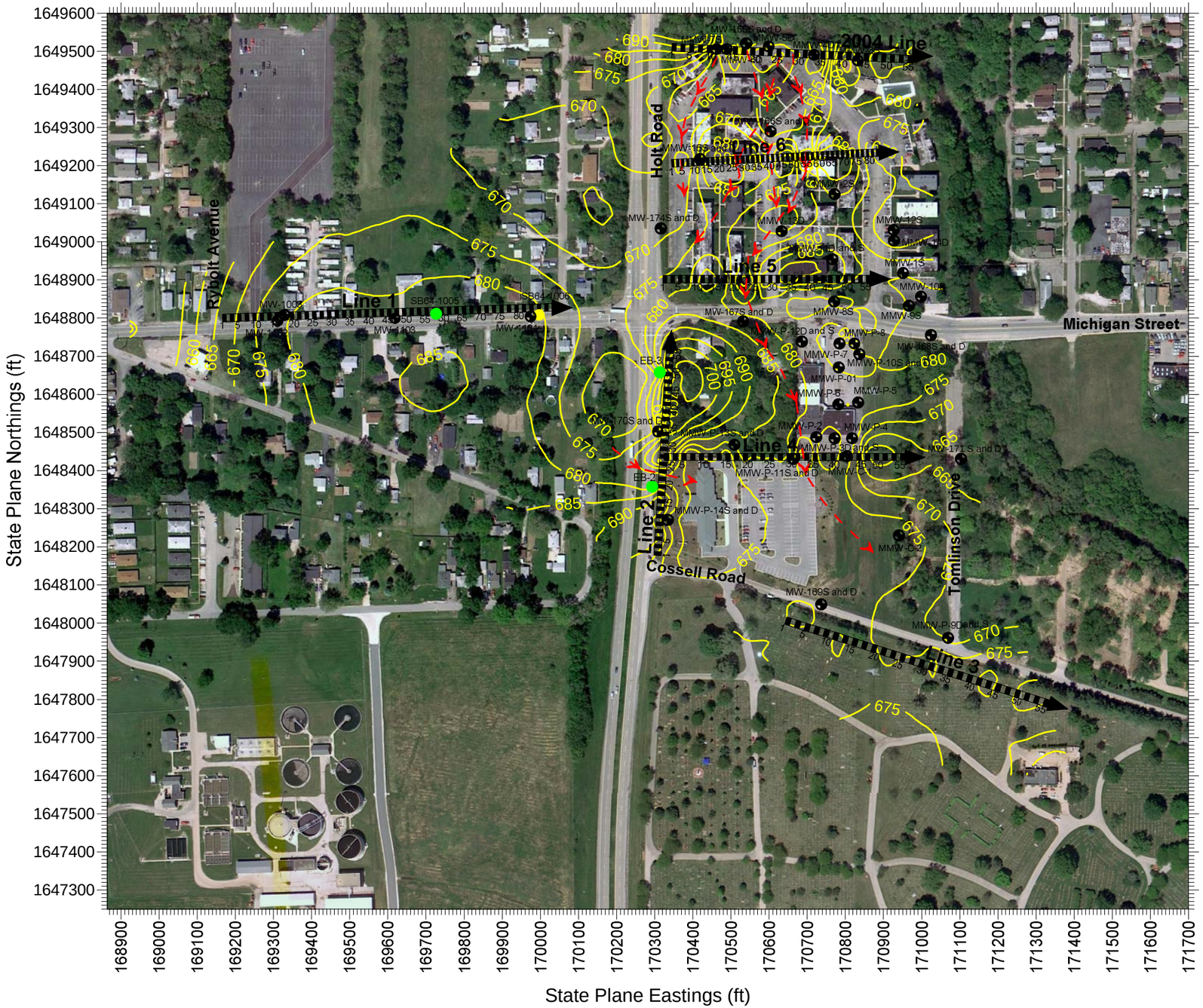
REV.	DATE	DESCRIPTION	BY	APPR.

PROJECT NO.: M01046		FILE NO.: 2011 Resistivity.srf	
DRAWING:		PLOT SIZE:	11"x17"
DRAFTED BY:	GJH	DATE:	12/05/11
CHECKED BY:	GJH	DATE:	12/05/11
APPROVED BY:	JAM	DATE:	12/13/11

Site Map With Resistivity Profiles

Michigan Street
Indianapolis, Indiana
MUNDELL Project No. M01046

FIGURE
9



Resistivity Line Location

Top of Till Elevation
(ft. above mean sea level)

Monitoring Well
Location

Depression in the Till

N

Scale in Feet

0 100 200 300 400 500

1" = 300'

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REV.	DATE	DESCRIPTION	BY	APPR.

PROJECT NO.: M01046		FILE NO.: 2011 Resistivity.srf	
DRAWING:		PLOT SIZE:	11"x17"
DRAFTED BY:	GJH	DATE:	12/05/11
CHECKED BY:	GJH	DATE:	12/05/11
APPROVED BY:	JAM	DATE:	12/13/11

Top of Till Map from the Geophysical and Boring Data
Michigan Street
Indianapolis, Indiana
MUNDELL Project No. M01046

FIGURE
10A

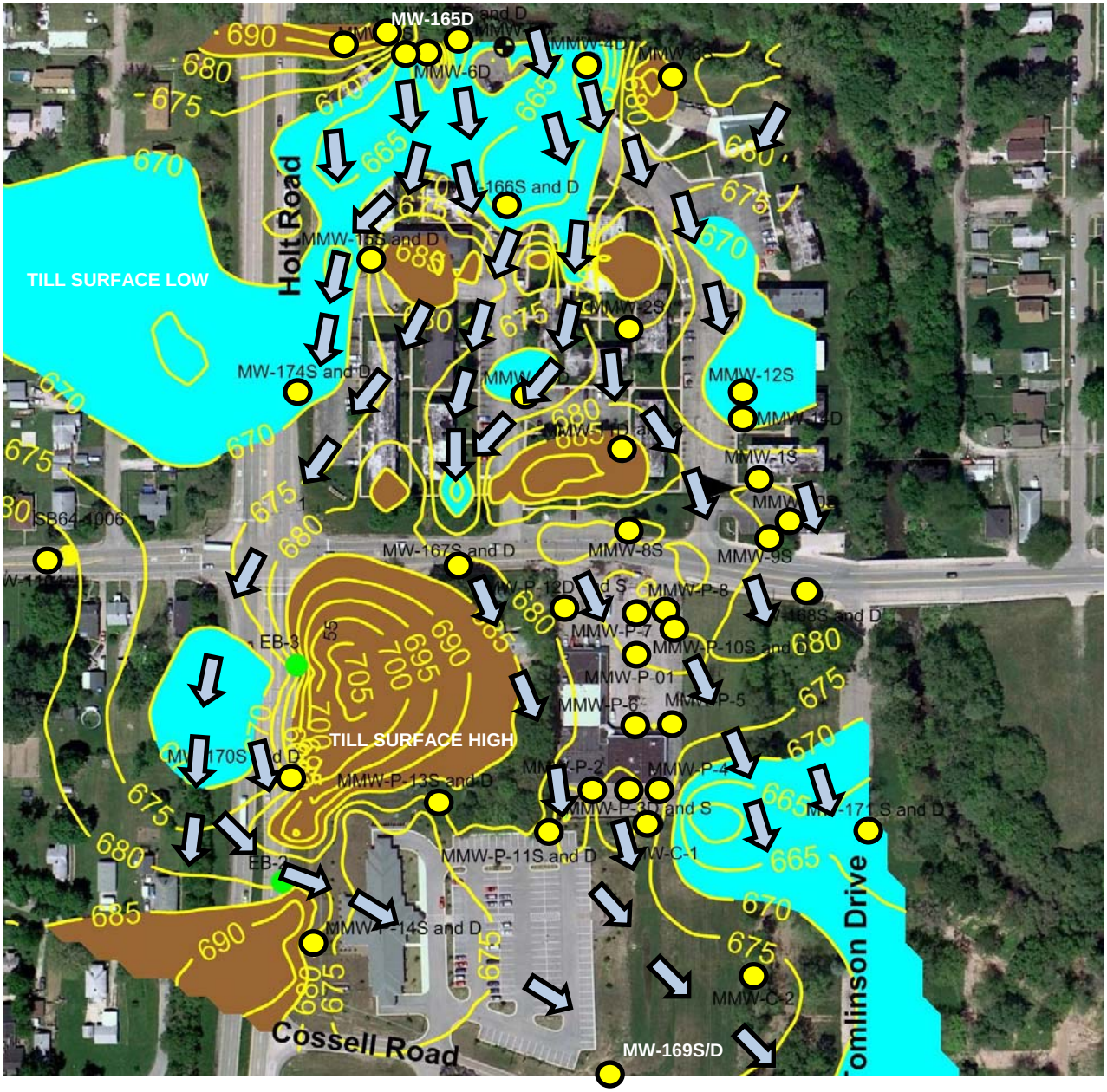
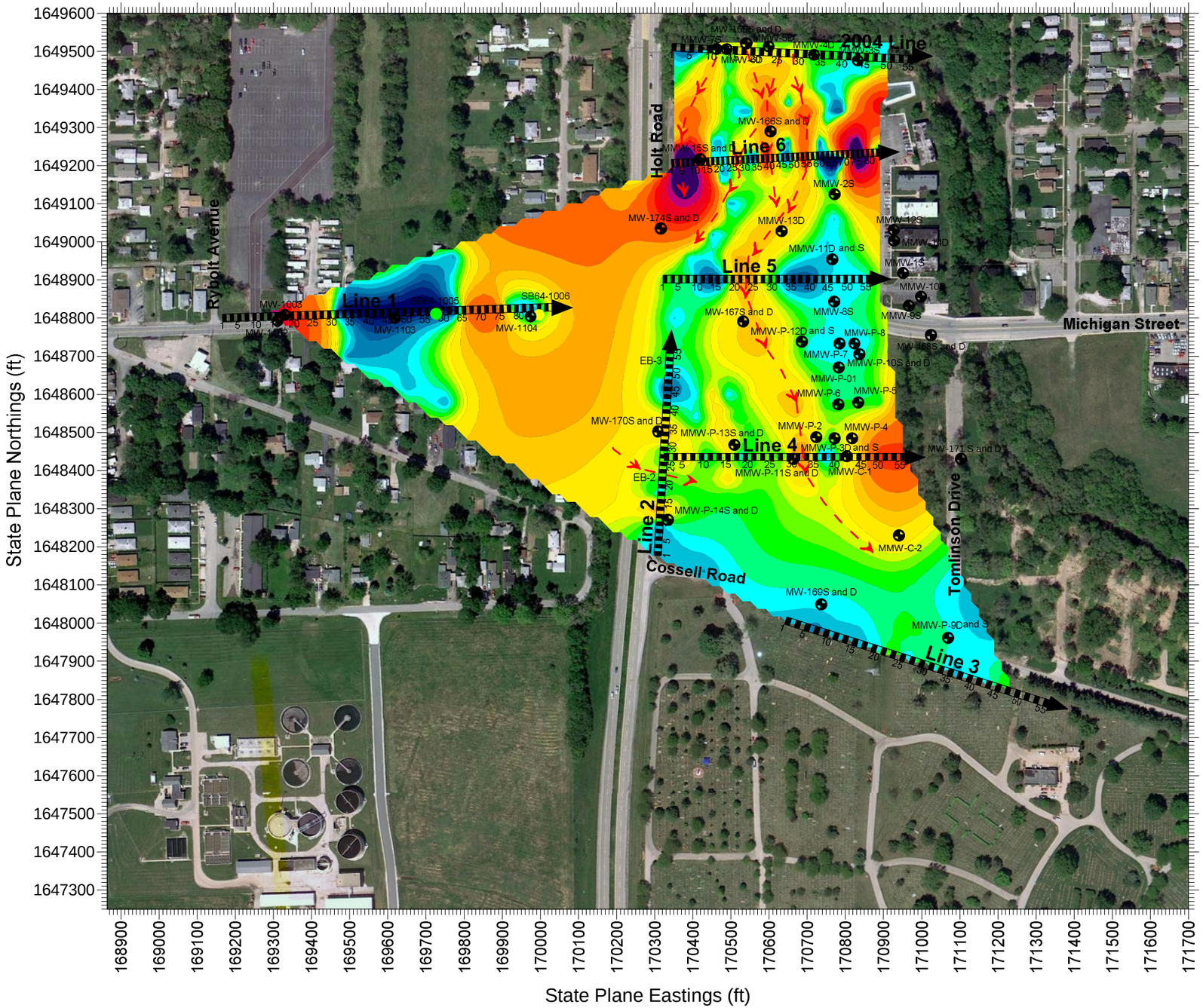


FIGURE 10B.
MICHIGAN PLAZA AND MEADOWS APARTMENTS
CONCEPTUAL SITE FLOW MODEL DEEP UPPER SAND AND GRAVEL



Resistivity Line Location

Monitoring Well Location

Depression in the Till

N

Scale in Feet

0 100 200 300 400 500

1" = 300'

Resistivity (Ohm-meters)

-100 0 5 10 15 20 30 40 50 60 70 80 90 100 125 150 200 300 400 500 750 1000

Increased Zones of Silt and Clay (Shallow); Shale Bedrock (Deep)

Increased Zones of Sand and Gravel (Shallow); Limestone Bedrock (Deep)

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REV.	DATE	DESCRIPTION	BY	APPR.

PROJECT NO.: M01046		FILE NO.: 2011 Resistivity.srf	
DRAWING:		PLOT SIZE:	11"x17"
DRAFTED BY:	GJH	DATE:	12/05/11
CHECKED BY:	GJH	DATE:	12/05/11
APPROVED BY:	JAM	DATE:	12/13/11

Resistivity Slice Map
(670 Ft. Elevation)
Michigan Street
Indianapolis, Indiana
MUNDELL Project No. M01046

FIGURE
11

Table 1. Comparison of Actual and Predicted Top-of-Till Elevations Michigan Street Indianapolis, Indiana Mundell Project No. 01046			
Well ID	Depth to Till from Resistivity Profiles (ft)	Depth to till from Boring Logs (ft)	Depth to Till From Figure 10A
MMW-P-14D	25.1	36.0	35.0
MMW-170D	13.3	37.0	37.0
EB-2	21.2	35.5	36.0
EB-3	30.7	39.6	36.0
MMW-169D	35.9	37.0	36.0
MMW-P-09D	39.3	45.0	45.0
MMW-P-13D	29.7	33.0	34.0
MMW-P-11D	35.4	36.0	38.0
MMW-P-02	52.0	Till Not Encountered	37.0
MMW-P-03D	33.3	Till Not Encountered	34.5
MMW-P-04D	33.5	Till Not Encountered	38.0
EB-1	24.7	34.5	35.0
MW-167D	50.8	34.0	34.0
MMW-P-08S	26.7	Till Not Encountered	26.0
MMW-15D	37.7	39.0	36.0
MW-7S	48.8	Till Not Encountered	46.0
MW-6D	42.0	48.0	38.0
MW-5D	40.5	45.5	42.0
MW-4D	54.1	63.0	54.0
MW-3S	26.4	29.0	26.0
MMW-165D	53.1	47.0	48.0
MW-1102	Not Interpreted	41	40.5
MW-1103	Not Interpreted	36	36.0
MW-1104	Not Interpreted	35	35.0

Table 2. Summary of Monitoring Wells with Downhole Geophysical Logging Michigan Street Indianapolis, Indiana Mundell Project No. 01046			
Well ID	Blank Drilling Interval	Screen Interval	Bottom of Geophysical Log
MMW-08S	0 -40'	14 - 24'	23.15'
MMW-09S	0 -40'	15 - 25'	23.90'
MMW-10S	0 -40'	15 - 25'	24.00'
MMW-11D	20 -32'	23 - 33'	23.20'
MMW-13D	24 - 50'	35 - 50'	47.00'
MMW-14D	24 - 50'	40 - 50'	48.10'
MMW-P-02	12 - 30'	20 -30'	28.90'
MMW-P-03D	30 -40'	25 - 35'	31.30'
MMW-P-07	20 -40'	18 - 28'	25.80'
MMW-P-09D	24 -45'	35 - 45'	43.50'
MMW-P-10S	24 -28'	18 - 28'	24.10'
MMW-P-10D	0 -37.5'	28 - 38'	36.20'
MMW-P-12D	25 -32' and 37 - 40'	31.5 - 37.1'	36.30'

APPENDIX A

BORING LOGS

MUNDELL & ASSOCIATES, INC.

BORING LOG

BORING NO: GP-02 MMW-P-02

CLIENT: AIMCO
PROJECT LOCATION: Indianapolis, Indiana
PROJECT NAME: Michigan Meadows
PROJECT NO: M01046
DRILLING CONTRACTOR: American Drilling Services
DRILLER: Rick Davis
BORING LOCATION: SW Corner of the Plaza
FIELD GEOLOGIST: Leena Lothe & Jason Armour
NOTES: SL sample:GP-02-7'; 1 GW sample: GP-02-12'

DATE BEGAN: 08/18/04
DATE FINISHED: 08/18/04
DRILLING METHOD: Direct Push
DRILL EQUIP: Geoprobe 5400
GW DEPTH (OBSERVED): 9.0'
DEPTH OF BORING: 12'
TOP OF CASING ELEVATION: N/A
SURFACE ELEVATION: N/A
COMMENTS:

Lithologic Description	USCS Symbol	Stratum Depth (feet)	PID Headspace (ppm)	Rec. %	Sample Location	Sample ID	Depth (feet)
ASPHALT: About 3 inches of ASPHALT		0.2	4.2	85%			0.0
GRAVEL: about 6 inches of GRAVEL, GRAVEL BASE COURSE		0.75					
FILL: Fine to medium fill SAND, dark yellowish brown (10 YR 4/4), dry, no odor			5.8				
			5.7				
CL: SILTY CLAY with trace sand and gravel, trace root fragments, very dark gray (10 YR 3/1), slight moist, slightly organic odor	CL	3.0	5.4				
			NA	50%			5.0
			NA				
- orange coloration observed - maybe Iron, dark brown (10 YR 3/3) with occasional orange-red (2.5 YR 5/8) from about 7.0' to 8.0'			7.5				
			5.1				
SW: FINE TO COARSE SAND with trace to some fine to medium gravel, light yellowish brown (2.5 Y 6/4), wet, no odor	SW	8.0	NA	75%			10.0
			5.3				
- black staining (10 YR 2/1) with possible septic odor observed at about 9.8' - 10.4' , fragments of clay tile at 10.4'			5.2				
SP: FINE TO MEDIUM SAND with trace coarse sand and fine gravel, light yellowish brown (2.5 Y 6/4), wet, no odor	SP	11.0	6.8				
		12.0					
- End of the Boring at 12'							15.0

Well Completion Diagram

MUNDELL & ASSOCIATES, INC.

MMW-P-03D

BORING LOG

BORING NO: GP-03

CLIENT: AIMCO
PROJECT LOCATION: Indianapolis, Indiana
PROJECT NAME: Michigan Meadows
PROJECT NO: M01046
DRILLING CONTRACTOR: American Drilling Services
DRILLER: Rick Davis
BORING LOCATION: South of the Plaza (center one)
FIELD GEOLOGIST: Leena Lothe & Jason Armour
NOTES: SS:GP-03-16'; 3 GW samples:GP-03-20', GP-03-30' & GP-03-40'

DATE BEGAN: 08/18/04
DATE FINISHED: 08/18/04
DRILLING METHOD: Direct Push
DRILL EQUIP: Geoprobe 5400
GW DEPTH (OBSERVED): 18.0'
DEPTH OF BORING: 40.0'
TOP OF CASING ELEVATION: N/A
SURFACE ELEVATION: N/A
COMMENTS:

Lithologic Description	USCS Symbol	Stratum Depth (feet)	PID Headspace (ppm)	Rec. %	Sample Location	Sample ID	Depth (feet)	Well Completion Diagram
ASPHALT: About 3 inches of ASPHALT		0.2	2.2				0.0	
GRAVEL: about 6 inches of BASE COURSE		0.75						
CL: SILTY CLAY with trace to some medium to coarse and trace to medium gravel, very dark gray (10 YR 3/1), slightly moist, organic odor			1.9					
			2.0	98%				
- color change to dark yellowish brown (10 YR 3/6) at 2'	CL		1.9					
SW: MEDIUM TO COARSE SAND with trace to some fine to medium gravel, dark brown (7.5 YR 4/3), dry, no odor		4.0	NA					
			6.6				5.0	
			6.5	55%				
			6.2					
- color change to light yellowish brown (2.5 Y 6/4) at 6.5' with some gravel observed.	SW		NA					
			8.1					
			8.4	55%			10.0	
			9.5					
SP: FINE TO MEDIUM SAND with trace coarse sand and fine gravel, trace silt, light yellowish brown (2.5 Y 6/4), dry, no odor		11.5	NA					
			8.1					
	SP		8.8	60%			15.0	
			12.9					
			NA					
			8.2					
			8.1	60%				
			11.3					
CL: SILTY CLAY with some medium to coarse sand, light olive brown (2.5 Y 5/6), dry, no odor	CL	19.5					20.0	
SW: MEDIUM TO COARSE SAND with trace to some fine to medium gravel, dark brown (7.5 YR 4/3), dry, no odor		20.0	NA					
			6.6					
			7.4					

MMW-P-03D

MUNDELL & ASSOCIATES, INC.

BORING LOG

BORING NO: GP-03

CLIENT: AIMCO
PROJECT LOCATION: Indianapolis, Indiana
PROJECT NAME: Michigan Meadows
PROJECT NO: M01046
DRILLING CONTRACTOR: American Drilling Services
DRILLER: Rick Davis
BORING LOCATION: South of the Plaza (center one)
FIELD GEOLOGIST: Leena Lothe & Jason Armour
NOTES: SS:GP-03-16'; 3 GW samples:GP-03-20', GP-03-30' & GP-03-40'

DATE BEGAN: 08/18/04
DATE FINISHED: 08/18/04
DRILLING METHOD: Direct Push
DRILL EQUIP: Geoprobe 5400
GW DEPTH (OBSERVED): 18.0'
DEPTH OF BORING: 40.0'
TOP OF CASING ELEVATION: N/A
SURFACE ELEVATION: N/A
COMMENTS:

Lithologic Description	USCS Symbol	Stratum Depth (feet)	PID Headspace (ppm)	Rec. %	Sample Location	Sample ID	Depth (feet)	Well Completion Diagram
	SW		12.6	60%			25.0	
			11.8					
			NA					
			NA					
			NA					
			11.6	40%				
			8.3					
BL. DRILLED FROM 30' to 40'		-30.0					30.0	
							35.0	
- End of the Boring at 40'							40.0	

MUNDELL & ASSOCIATES, INC.

BORING LOG

BORING NO: MMW-P-07

CLIENT: AIMCO
PROJECT LOCATION: Indianapolis, Indiana
PROJECT NAME: Michigan Meadows
PROJECT NO: M01046
DRILLING CONTRACTOR: Midway Services, Inc.
DRILLER: Mark Hicks / J.R. Todish
BORING LOCATION: East side of plaza parking lot
FIELD GEOLOGIST: Leena Lothe & April Nelson
NOTES: 3 GW samples: MMW-P-07 (20'), (30'), (40'); SS: 19-20'

DATE BEGAN: 1/11/07
DATE FINISHED: 1/11/07
DRILLING METHOD: Direct Push
DRILL EQUIP: Geoprobe 5400
GW DEPTH (OBSERVED): 19'
DEPTH OF BORING: 40.0'
TOP OF CASING ELEVATION: N/A
SURFACE ELEVATION: N/A
COMMENTS:

Lithologic Description	USCS Symbol	Stratum Depth (feet)	PID Headspace (ppm)	Rec. %	Sample Location	Sample ID	Depth (feet)	Water Level Information
ASPHALT: 3 - 4" of ASPHALT		0.25	0.0				0.0	
FILL: 5 - 6" of FILL gravel, BASE COURSE		1.0	0.0					
SW: FINE TO MEDIUM SAND, yellowish brown (10 YR 4/4), dry, no odor	SW		0.0	100%				
CL: SILTY CLAY with trace to some sand, trace fine gravel and coarse sand, very dark gray (10 YR 3/1), dry, no odor	CL	3.0	0.0					
			0.0				5.0	
			0.0					
SW: FINE TO COARSE SAND with trace to some fine to medium gravel, dark yellowish brown (10 YR 4/4), dry, no odor	SW	6.0	0.0	75%				
		7.0	0.0					
SP: FINE TO MEDIUM SAND with trace silt, light olive brown (2.5 Y 5/4), dry, no odor	SP		0.0					
			0.0					
			0.0	60%			10.0	
			0.0					
			0.0					
			0.0					
SW: MEDIUM TO COARSE SAND with trace gravel, dry, no odor	SW	14.0	0.0	60%				
			0.0				15.0	
			0.0					
			0.0					
			0.0	75%				
			0.0					
		20.0					20.0	
- blind drilled below 20 feet								
							25.0	
- Well set at 28'								
							30.0	
							35.0	

MUNDELL & ASSOCIATES, INC.

BORING LOG

BORING NO: MMW-P-07

CLIENT: AIMCO
PROJECT LOCATION: Indianapolis, Indiana
PROJECT NAME: Michigan Meadows
PROJECT NO: M01046
DRILLING CONTRACTOR: Midway Services, Inc.
DRILLER: Mark Hicks / J.R. Todish
BORING LOCATION: East side of plaza parking lot
FIELD GEOLOGIST: Leena Lothe & April Nelson
NOTES: 3 GW samples: MMW-P-07 (20'), (30'), (40'); SS: 19-20'

DATE BEGAN: 1/11/07
DATE FINISHED: 1/11/07
DRILLING METHOD: Direct Push
DRILL EQUIP: Geoprobe 5400
GW DEPTH (OBSERVED): 19'
DEPTH OF BORING: 40.0'
TOP OF CASING ELEVATION: N/A
SURFACE ELEVATION: N/A
COMMENTS:

Lithologic Description	USCS Symbol	Stratum Depth (feet)	PID Headspace (ppm)	Rec. %	Sample Location	Sample ID	Depth (feet)	Water Level Information		
- End of Boring at 40'					✱		40.0			

MUNDELL & ASSOCIATES, INC.

BORING LOG

BORING NO: MMW-P-9D

CLIENT: AIMCO
PROJECT LOCATION: Indianapolis, Indiana
PROJECT NAME: Michigan Meadows
PROJECT NO: M01046
DRILLING CONTRACTOR: Midway Services, Inc.
DRILLER: Mark Hicks
BORING LOCATION: NW corner of intersection of Olin Ave. and Cossell Rd.
FIELD GEOLOGIST: April Nelson & Megan Hill
NOTES:

DATE BEGAN: 5/31/07
DATE FINISHED: 5/31/07
DRILLING METHOD: Direct Push / HSA
DRILL EQUIP: Geoprobe 5400 / BK 51 HD
GW DEPTH (OBSERVED): 20'
DEPTH OF BORING: 45'
TOP OF CASING ELEVATION: N/A
SURFACE ELEVATION: N/A
COMMENTS:

Lithologic Description	USCS Symbol	Stratum Depth (feet)	PID Headspace (ppm)	Rec. %	Sample Location	Sample ID	Depth (feet)	Water Level Information
TOPSOIL: with Grass and roots, very dk grayish-brown (10 YR 3/2)			0.1	55%			0.0	
			3.1					
CL: SILTY CLAY with trace gravel, dry, dark brown (10 YR 3/3)	CL	3.0	NR	40%			5.0	
			2.5					
SW: FINE TO MEDIUM SAND with trace gravel, slightly moist, brown (10 YR 4/3)	SW	7.0	2.7	75%			10.0	
			5.5					
SW: COURSE SAND with gravel, slightly moist, brown (10 YR 4/3)	SW	11.0	0.1	60%			15.0	
			0.1					
SW: FINE TO MEDIUM SAND with trace silt and gravel, slightly moist, brown (10 YR 4/3)	SW	15.0	NR	50%				
- 1" very wet sand, almost greasy @ 15'								
SW: COURSE SAND with trace silt and gravel, slightly moist, no odor	SW	18.0	0.1				20.0	▼
- 3" orange color (7.5 YR 4/6) @ 18.25'								
SW: VERY COARSE SAND with gravel, wet, brown (10 YR 4/3)	SW	20.0	0.1	60%				

MUNDELL & ASSOCIATES, INC.

BORING LOG

BORING NO: MMW-P-9D

CLIENT: AIMCO
PROJECT LOCATION: Indianapolis, Indiana
PROJECT NAME: Michigan Meadows
PROJECT NO: M01046
DRILLING CONTRACTOR: Midway Services, Inc.
DRILLER: Mark Hicks
BORING LOCATION: NW corner of intersection of Olin Ave. and Cossell Rd.
FIELD GEOLOGIST: April Nelson & Megan Hill
NOTES:

DATE BEGAN: 5/31/07
DATE FINISHED: 5/31/07
DRILLING METHOD: Direct Push / HSA
DRILL EQUIP: Geoprobe 5400 / BK 51 HD
GW DEPTH (OBSERVED): 20'
DEPTH OF BORING: 45'
TOP OF CASING ELEVATION: N/A
SURFACE ELEVATION: N/A
COMMENTS:

Lithologic Description	USCS Symbol	Stratum Depth (feet)	PID Headspace (ppm)	Rec. %	Sample Location	Sample ID	Depth (feet)	Water Level Information
SW: MEDIUM TO COARSE SAND, with gravel, wet, dark gray (10 YR 4/1)	SW	23.0	0.1					
		24.0						
- Blind drilled							25.0	
							30.0	
							35.0	
							40.0	
End of boring @ 45'		45.0					45.0	

MUNDELL & ASSOCIATES, INC.

BORING LOG

BORING NO: MMW-P-9D

CLIENT: AIMCO
PROJECT LOCATION: Indianapolis, Indiana
PROJECT NAME: Michigan Meadows
PROJECT NO: M01046
DRILLING CONTRACTOR: Midway Services, Inc.
DRILLER: Mark Hicks
BORING LOCATION: NW corner of intersection of Olin Ave. and Cossell Rd.
FIELD GEOLOGIST: April Nelson & Megan Hill
NOTES:

DATE BEGAN: 5/31/07
DATE FINISHED: 5/31/07
DRILLING METHOD: Direct Push / HSA
DRILL EQUIP: Geoprobe 5400 / BK 51 HD
GW DEPTH (OBSERVED): 20'
DEPTH OF BORING: 45'
TOP OF CASING ELEVATION: N/A
SURFACE ELEVATION: N/A
COMMENTS:

Lithologic Description	USCS Symbol	Stratum Depth (feet)	PID Headspace (ppm)	Rec. %	Sample Location	Sample ID	Depth (feet)	Water Level Information

MUNDELL & ASSOCIATES, INC.

BORING LOG

BORING NO: MMW-P-10S

CLIENT: AIMCO
PROJECT LOCATION: Indianapolis, Indiana
PROJECT NAME: Michigan Meadows
PROJECT NO: M01046
DRILLING CONTRACTOR: Midway Services, Inc.
DRILLER: Mark Hicks / J.R. Todish
BORING LOCATION: E side of plaza parking lot, S of MMW-P-08
FIELD GEOLOGIST: April Nelson & Megan Hill
NOTES:

DATE BEGAN: 5/31/07
DATE FINISHED: 6/1/07
DRILLING METHOD: Direct Push / HSA
DRILL EQUIP: Geoprobe 5400 / BK 51 HD
GW DEPTH (OBSERVED): 18.5'
DEPTH OF BORING: 28'
TOP OF CASING ELEVATION: N/A
SURFACE ELEVATION: N/A
COMMENTS:

Lithologic Description	USCS Symbol	Stratum Depth (feet)	PID Headspace (ppm)	Rec. %	Sample Location	Sample ID	Depth (feet)	Water Level Information
ASPHALT: 3 - 4" of ASPHALT							0.0	
FILL: 6 - 8" of FILL gravel, BASE COURSE		0.25						
SW: FINE TO MEDIUM SAND with gravel, dry, pale brown (10 YR 6/3)	SW	1.0	0.1					
CL: SILTY CLAY with gravel, dry, black (10 YR 2/1)	CL	2.0		75%				
CL: SANDY CLAY with gravel, slightly moist, dk brown (10 YR 3/3)	CL	3.0	0.1					
CL: SILTY CLAY with gravel, slightly moist, dk brown (10 YR 3/3)	CL	3.5	NR				5.0	
SW: MEDIUM TO COARSE SAND with gravel, slightly moist, brown (10 YR 4/3)	SW	6.0	0.1	65%				
			NR				10.0	
			0.1	65%				
			NR					
			0.1	45%			15.0	
			NR			SS 16-17'		
SW: MEDIUM TO COARSE SAND with gravel, wet, brown (10 YR 4/3)	SW	18.5	15.0	50%				▼
SW: MEDIUM TO COARSE SAND with gravel, wet, grayish-brown (10 YR 5/2)	SW	20.0	0.1	100%			20.0	

MUNDELL & ASSOCIATES, INC.

BORING LOG

BORING NO: MMW-P-10S

CLIENT: AIMCO
PROJECT LOCATION: Indianapolis, Indiana
PROJECT NAME: Michigan Meadows
PROJECT NO: M01046
DRILLING CONTRACTOR: Midway Services, Inc.
DRILLER: Mark Hicks / J.R. Todish
BORING LOCATION: E side of plaza parking lot, S of MMW-P-08
FIELD GEOLOGIST: April Nelson & Megan Hill
NOTES:

DATE BEGAN: 5/31/07
DATE FINISHED: 6/1/07
DRILLING METHOD: Direct Push / HSA
DRILL EQUIP: Geoprobe 5400 / BK 51 HD
GW DEPTH (OBSERVED): 18.5'
DEPTH OF BORING: 28'
TOP OF CASING ELEVATION: N/A
SURFACE ELEVATION: N/A
COMMENTS:

Lithologic Description	USCS Symbol	Stratum Depth (feet)	PID Headspace (ppm)	Rec. %	Sample Location	Sample ID	Depth (feet)	Water Level Information
SP: FINE TO MEDIUM SAND, wet, grayish-brown (10 YR 5/2)	SP	23.0	0.1					
- Blind drilled		24.0					25.0	
End of boring @ 28'		28.0					30.0	

MUNDELL & ASSOCIATES, INC.

BORING LOG

BORING NO: MMW-P-10D

CLIENT: AIMCO
PROJECT LOCATION: Indianapolis, Indiana
PROJECT NAME: Michigan Meadows
PROJECT NO: M01046
DRILLING CONTRACTOR: Midway Services, Inc.
DRILLER: Mark Hicks / J.R. Todish
BORING LOCATION: E side of plaza parking lot, S of MMW-P-08
FIELD GEOLOGIST: April Nelson & Leena Lothe
NOTES:

DATE BEGAN: 6/1/07
DATE FINISHED: 6/1/07
DRILLING METHOD: Direct Push / HSA
DRILL EQUIP: Geoprobe 5400 / BK 51 HD
GW DEPTH (OBSERVED): 18.5'
DEPTH OF BORING: 37.5'
TOP OF CASING ELEVATION: N/A
SURFACE ELEVATION: N/A
COMMENTS:

Lithologic Description	USCS Symbol	Stratum Depth (feet)	PID Headspace (ppm)	Rec. %	Sample Location	Sample ID	Depth (feet)	Water Level Information
- Blind drilled							0.0	
							5.0	
							10.0	
							15.0	
							20.0	

MUNDELL & ASSOCIATES, INC.

BORING LOG

BORING NO: MMW-P-10D

CLIENT: AIMCO
PROJECT LOCATION: Indianapolis, Indiana
PROJECT NAME: Michigan Meadows
PROJECT NO: M01046
DRILLING CONTRACTOR: Midway Services, Inc.
DRILLER: Mark Hicks / J.R. Todish
BORING LOCATION: E side of plaza parking lot, S of MMW-P-08
FIELD GEOLOGIST: April Nelson & Leena Lothe
NOTES:

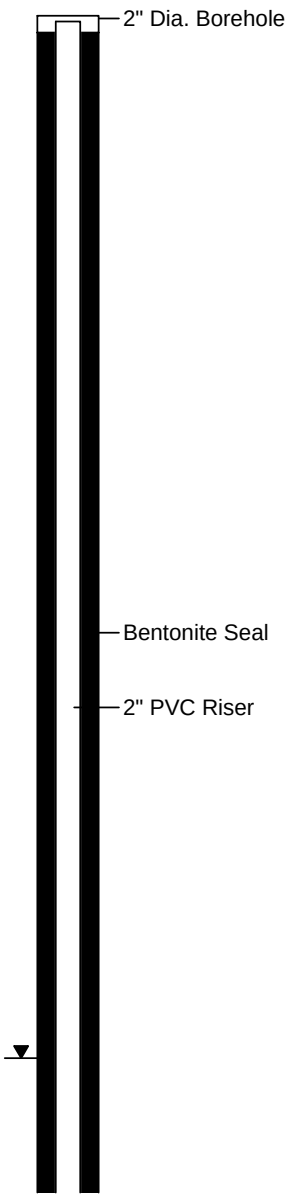
DATE BEGAN: 6/1/07
DATE FINISHED: 6/1/07
DRILLING METHOD: Direct Push / HSA
DRILL EQUIP: Geoprobe 5400 / BK 51 HD
GW DEPTH (OBSERVED): 18.5'
DEPTH OF BORING: 37.5'
TOP OF CASING ELEVATION: N/A
SURFACE ELEVATION: N/A
COMMENTS:

Lithologic Description	USCS Symbol	Stratum Depth (feet)	PID Headspace (ppm)	Rec. %	Sample Location	Sample ID	Depth (feet)	Water Level Information
End of boring @ 37.5'							25.0 30.0 35.0 40.0	

Boring/Well ID: MMW-P-12D

CLIENT: AIMCO	FIELD SCIENTIST: Sarah Webb, L. P. G.
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 9/1/11
PROJECT NAME: Michigan Meadows Apts	DATE FINISHED: 9/1/11
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Earth Exploration	DRILLING EQUIPMENT: Geoprobe 6620
DRILLER: Doug Carlson	GW DEPTH (OBSERVED): 18.5 ft
BORING LOCATION: NW of Michigan Plaza	SURFACE ELEVATION: NS

Depth BGS (ft)	USCS Symbol	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID
0		Asphalt/Topsoil	0.5				
1	SM	SILTY SAND with trace gravel, dark brown (7.5YR 3/2), dense, dry		3.6	75		
2				2.7			
3		No Recovery 3 to 4 ft		-			
4							
5	SW	SAND with some gravel, Well Graded, brown (10YR 5/3), loose, dry	5.0	7.0	75		
6				3.7			
7		No Recovery 7 to 8 ft		-			
8				3.8	63		
9							
10		Yellowish red (5YR 5/8) oxidation 10 to 10.5 ft		4.8			
11		No Recovery 10.5 to 12 ft		-			
12							
13				7.9			
14	ML	SILT with trace sand, brown (10YR 5/3), loose, moist	14.0		75		
15	SM	Fine SILTY SAND, brown (10YR 5/3) with yellowish red (5YR 5/8) oxidation, loose, moist	14.5	11.0			
16		No Recovery 15 to 16 ft	16.0	-			
17	SW	Fine to medium SAND with trace gravel, brown (10YR 5/3), dense		13.8		*	Soil Sample SBP12D:160180
18		Yellowish red (5YR 5/8) oxidation at 17.5 ft			75		
19	SW-GW	SAND and GRAVEL, Well Graded, gray (2.5Y 5/1), dense, wet	18.5	12.1			
20		No Recovery 19 to 20 ft	20.0	-			
21	SW	Fine to medium SAND with trace gravel, brownish gray (10YR 6/2), dense, wet		2.9	75		



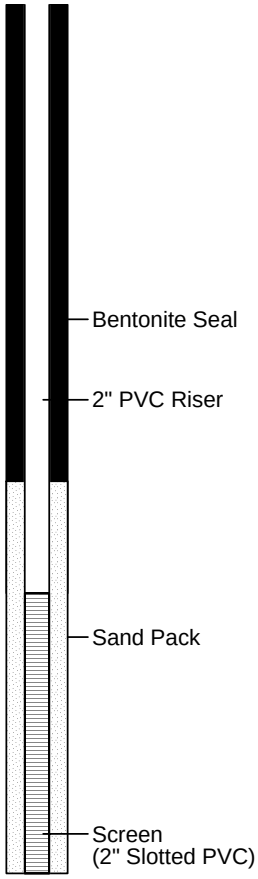
REMARKS:
BGS = Below Ground Surface
USCS = Unified Soil Classification System
TPV = Total Photoionizable Vapors
NS = Not Surveyed

Boring/Well ID: MMW-P-12D

CLIENT: AIMCO	FIELD SCIENTIST: Sarah Webb, L. P. G.
PROJECT LOCATION: Indianapolis, Indiana	DATE BEGAN: 9/1/11
PROJECT NAME: Michigan Meadows Apts	DATE FINISHED: 9/1/11
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Earth Exploration	DRILLING EQUIPMENT: Geoprobe 6620
DRILLER: Doug Carlson	GW DEPTH (OBSERVED): 18.5 ft
BORING LOCATION: NW of Michigan Plaza	SURFACE ELEVATION: NS

Depth BGS (ft)	USCS Symbol	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID
21	CL	SILTY CLAY, brownish gray (10YR 6/2), hard, plastic, wet	21.0	2.9			
21.5			21.5				
22		SAND and GRAVEL, Well Graded, brownish gray (10YR 6/2), wet		1.3	75		
23		Coarse SAND and GRAVEL, gray (2.5Y 5/1) 22.5 to 23 ft		-			
24		No Recovery 23 to 24 ft		2.4			
25							
26					25	*	Water Sample SBP12D:260
27							
28							
29	SW-GW	No Recovery 25 to 32 ft		-			
30					0		
31							
32							
33				3.5			
34					100		
35				9.3			
36	SW	Fine SAND, brown (10YR 5/3), dense, wet	36.0			*	Water Sample SBP12D:360
36.5			36.5	6.5		*	Soil Sample SBP12D:360370
37		SILTY CLAY, gray (2.5Y 5/1), hard, dry					
38	CL				25		
39		No Recovery 37 to 40 ft		-			
40			40.0				
41		End of boring at 40 ft					
42							

MMW-P-12D



REMARKS:
BGS = Below Ground Surface
USCS = Unified Soil Classification System
TPV = Total Photoionizable Vapors
NS = Not Surveyed

MUNDELL & ASSOCIATES, INC.

BORING LOG

BORING NO: MMW-8S

CLIENT: AIMCO
PROJECT LOCATION: Indianapolis, Indiana
PROJECT NAME: Michigan Meadows
PROJECT NO: M01046
DRILLING CONTRACTOR: Midway Services, Inc.
DRILLER: Mark Hicks / J.R. Todish
BORING LOCATION: South of Building 6
FIELD GEOLOGIST: Leena Lothe & April Nelson
NOTES: 3 GW samples: MMW-8S (20'), (30'), (40'); SS: 14-15'

DATE BEGAN: 1/11/07
DATE FINISHED: 1/11/07
DRILLING METHOD: Direct Push
DRILL EQUIP: Geoprobe 5400
GW DEPTH (OBSERVED): 16'
DEPTH OF BORING: 40.0'
TOP OF CASING ELEVATION: N/A
SURFACE ELEVATION: N/A
COMMENTS:

Lithologic Description	USCS Symbol	Stratum Depth (feet)	PID Headspace (ppm)	Rec. %	Sample Location	Sample ID	Depth (feet)	Water Level Information
- blind drilled							0.0	
							5.0	
							10.0	
					✱		15.0	▼
					✱		20.0	
- Well set at 24'							25.0	
					✱		30.0	
							35.0	

MUNDELL & ASSOCIATES, INC.

BORING LOG

BORING NO: MMW-8S

CLIENT: AIMCO
PROJECT LOCATION: Indianapolis, Indiana
PROJECT NAME: Michigan Meadows
PROJECT NO: M01046
DRILLING CONTRACTOR: Midway Services, Inc.
DRILLER: Mark Hicks / J.R. Todish
BORING LOCATION: South of Building 6
FIELD GEOLOGIST: Leena Lothe & April Nelson
NOTES: 3 GW samples: MMW-8S (20'), (30'), (40'); SS: 14-15'

DATE BEGAN: 1/11/07
DATE FINISHED: 1/11/07
DRILLING METHOD: Direct Push
DRILL EQUIP: Geoprobe 5400
GW DEPTH (OBSERVED): 16'
DEPTH OF BORING: 40.0'
TOP OF CASING ELEVATION: N/A
SURFACE ELEVATION: N/A
COMMENTS:

Lithologic Description	USCS Symbol	Stratum Depth (feet)	PID Headspace (ppm)	Rec. %	Sample Location	Sample ID	Depth (feet)	Water Level Information
- End of Boring at 40'					✱		40.0	

MUNDELL & ASSOCIATES, INC.

BORING LOG

BORING NO: MMW-9S

CLIENT: AIMCO
PROJECT LOCATION: Indianapolis, Indiana
PROJECT NAME: Michigan Meadows
PROJECT NO: M01046
DRILLING CONTRACTOR: Midway Services, Inc.
DRILLER: Mark Hicks / J.R. Todish
BORING LOCATION: South of Building 1
FIELD GEOLOGIST: Leena Lothe & April Nelson
NOTES: 3 GW samples: MMW-9S (20'), (30'), (40'); SS: 15-16'

DATE BEGAN: 1/11/07
DATE FINISHED: 1/12/07
DRILLING METHOD: Direct Push
DRILL EQUIP: Geoprobe 5400
GW DEPTH (OBSERVED): 16'
DEPTH OF BORING: 40.0'
TOP OF CASING ELEVATION: N/A
SURFACE ELEVATION: N/A
COMMENTS:

Lithologic Description	USCS Symbol	Stratum Depth (feet)	PID Headspace (ppm)	Rec. %	Sample Location	Sample ID	Depth (feet)	Water Level Information
- blind drilled							0.0	
							5.0	
							10.0	
					✱		15.0	▼
					✱		20.0	
- Well set at 25'							25.0	
					✱		30.0	
							35.0	

MUNDELL & ASSOCIATES, INC.

BORING LOG

BORING NO: MMW-9S

CLIENT: AIMCO
PROJECT LOCATION: Indianapolis, Indiana
PROJECT NAME: Michigan Meadows
PROJECT NO: M01046
DRILLING CONTRACTOR: Midway Services, Inc.
DRILLER: Mark Hicks / J.R. Todish
BORING LOCATION: South of Building 1
FIELD GEOLOGIST: Leena Lothe & April Nelson
NOTES: 3 GW samples: MMW-9S (20'), (30'), (40'); SS: 15-16'

DATE BEGAN: 1/11/07
DATE FINISHED: 1/12/07
DRILLING METHOD: Direct Push
DRILL EQUIP: Geoprobe 5400
GW DEPTH (OBSERVED): 16'
DEPTH OF BORING: 40.0'
TOP OF CASING ELEVATION: N/A
SURFACE ELEVATION: N/A
COMMENTS:

Lithologic Description	USCS Symbol	Stratum Depth (feet)	PID Headspace (ppm)	Rec. %	Sample Location	Sample ID	Depth (feet)	Water Level Information		
- End of Boring at 40'					✱		40.0			

MUNDELL & ASSOCIATES, INC.

BORING LOG

BORING NO: MMW-10S

CLIENT: AIMCO
PROJECT LOCATION: Indianapolis, Indiana
PROJECT NAME: Michigan Meadows
PROJECT NO: M01046
DRILLING CONTRACTOR: Midway Services, Inc.
DRILLER: Mark Hicks / J.R. Todish
BORING LOCATION: South of Building 1
FIELD GEOLOGIST: Leena Lothe & April Nelson
NOTES: 3 GW samples: MMW-10S (20'), (30'), (40'); SS: 14-16'

DATE BEGAN: 1/12/07
DATE FINISHED: 1/12/07
DRILLING METHOD: Direct Push
DRILL EQUIP: Geoprobe 5400
GW DEPTH (OBSERVED): 16'
DEPTH OF BORING: 40.0'
TOP OF CASING ELEVATION: N/A
SURFACE ELEVATION: N/A
COMMENTS:

Lithologic Description	USCS Symbol	Stratum Depth (feet)	PID Headspace (ppm)	Rec. %	Sample Location	Sample ID	Depth (feet)	Water Level Information
- blind drilled							0.0	
							5.0	
							10.0	
					✱		15.0	▼
					✱		20.0	
- Well set at 25'							25.0	
					✱		30.0	
							35.0	

MUNDELL & ASSOCIATES, INC.

BORING LOG

BORING NO: MMW-10S

CLIENT: AIMCO
PROJECT LOCATION: Indianapolis, Indiana
PROJECT NAME: Michigan Meadows
PROJECT NO: M01046
DRILLING CONTRACTOR: Midway Services, Inc.
DRILLER: Mark Hicks / J.R. Todish
BORING LOCATION: South of Building 1
FIELD GEOLOGIST: Leena Lothe & April Nelson
NOTES: 3 GW samples: MMW-10S (20'), (30'), (40'); SS: 14-16'

DATE BEGAN: 1/12/07
DATE FINISHED: 1/12/07
DRILLING METHOD: Direct Push
DRILL EQUIP: Geoprobe 5400
GW DEPTH (OBSERVED): 16'
DEPTH OF BORING: 40.0'
TOP OF CASING ELEVATION: N/A
SURFACE ELEVATION: N/A
COMMENTS:

Lithologic Description	USCS Symbol	Stratum Depth (feet)	PID Headspace (ppm)	Rec. %	Sample Location	Sample ID	Depth (feet)	Water Level Information		
- End of Boring at 40'					✱		40.0			

MUNDELL & ASSOCIATES, INC.

BORING LOG

BORING NO: MMW-11D

CLIENT: AIMCO
PROJECT LOCATION: Indianapolis, Indiana
PROJECT NAME: Michigan Meadows
PROJECT NO: M01046
DRILLING CONTRACTOR: Midway Services, Inc.
DRILLER: Mark Hicks / J.R. Todish
BORING LOCATION: N of Bldg 10, W of Bldg 6
FIELD GEOLOGIST: April Nelson & Leena Lothe
NOTES:

DATE BEGAN: 6/1/07
DATE FINISHED: 6/1/07
DRILLING METHOD: Direct Push / HSA
DRILL EQUIP: Geoprobe 5400 / BK 51 HD
GW DEPTH (OBSERVED): 16'
DEPTH OF BORING: 36'
TOP OF CASING ELEVATION: N/A
SURFACE ELEVATION: N/A
COMMENTS:

Lithologic Description	USCS Symbol	Stratum Depth (feet)	PID Headspace (ppm)	Rec. %	Sample Location	Sample ID	Depth (feet)	Water Level Information
ASPHALT: 3 - 4" of ASPHALT							0.0	
FILL: 6 - 8" of FILL gravel, BASE COURSE		0.25						
CL: SILTY CLAY with gravel, dry, very dk brown (10 YR 2/2)	CL	1.0		10%				
							5.0	
CL: SILTY CLAY with trace gravel, slightly moist, dk brown (10 YR 3/3)	CL	6.0		80%				
	CL	6.5						
CL: SANDY CLAY with trace gravel, slightly moist, dk grayish brown (10 YR 4/2)		7.0						
CL: SANDY CLAY with trace gravel, slightly moist, brown (10 YR 4/3)	CL							
SC: CLAYEY SAND with trace gravel, slightly moist, brown (10 YR 4/3)	SC	9.5		75%			10.0	
SW: MEDIUM SAND with trace gravel, slightly moist, brown (10 YR 5/3)	SW	11.0						
SW: MEDIUM TO COARSE SAND with gravel, slightly moist, brown (10 YR 4/3)	SW	13.0		65%			15.0	
SW: MEDIUM TO COARSE SAND with gravel, wet, brown (10 YR 4/3)	SW	16.0		65%				▼
- Blind drilled		20.0					20.0	

MUNDELL & ASSOCIATES, INC.

BORING LOG

BORING NO: MMW-11D

CLIENT: AIMCO
PROJECT LOCATION: Indianapolis, Indiana
PROJECT NAME: Michigan Meadows
PROJECT NO: M01046
DRILLING CONTRACTOR: Midway Services, Inc.
DRILLER: Mark Hicks / J.R. Todish
BORING LOCATION: N of Bldg 10, W of Bldg 6
FIELD GEOLOGIST: April Nelson & Leena Lothe
NOTES:

DATE BEGAN: 6/1/07
DATE FINISHED: 6/1/07
DRILLING METHOD: Direct Push / HSA
DRILL EQUIP: Geoprobe 5400 / BK 51 HD
GW DEPTH (OBSERVED): 16'
DEPTH OF BORING: 36'
TOP OF CASING ELEVATION: N/A
SURFACE ELEVATION: N/A
COMMENTS:

Lithologic Description	USCS Symbol	Stratum Depth (feet)	PID Headspace (ppm)	Rec. %	Sample Location	Sample ID	Depth (feet)	Water Level Information
CL: SILTY CLAY, very hard and dense, dk gray (10 YR 4/1)	CL	32.0					25.0 30.0 35.0	
End of boring @ 36'		36.0						

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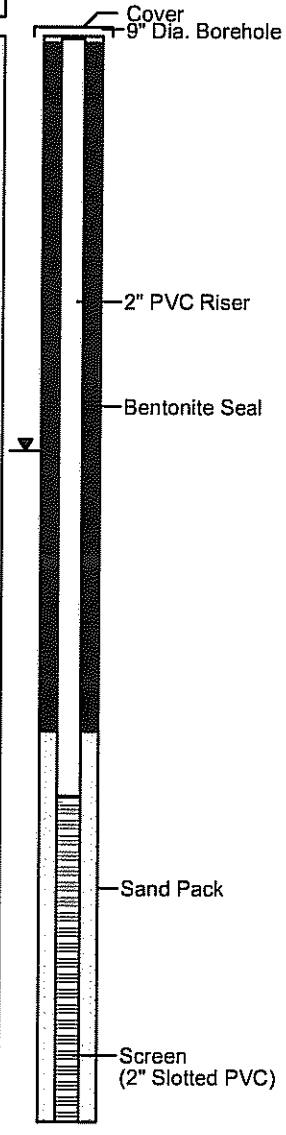
caring for the earth and all it holds

Boring/Well ID: MW-13D

CLIENT: AIMCO	FIELD GEOLOGIST: LL
PROJECT LOCATION: Indianapolis, IN	DATE BEGAN: 11/21/08
PROJECT NAME: Michigan Meadows	DATE FINISHED: 11/26/08
PROJECT NUMBER: M01046	DRILLING METHOD: Geoprobe/Direct Push
DRILLING CONTRACTOR: Midway	DRILLING EQUIPMENT:
DRILLER: JR	GW DEPTH (OBSERVED):
BORING LOCATION:	SURFACE ELEVATION:

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID
0	GR		Grass, topsoil	0.10	NA			
	CL		Dark olive brown, 2.5 Y 3/3, dry, SILTY CLAY, no odor		0.2	60		
					0.2			
					0.6			
5				5.0	NA			
	SP		Dark olive brown 2.5 Y 3/3, dry, SAND, poorly graded, fine grained, with gravel matrix, no odor		0.2	75		
					0.3			
					1.0			
10					NA			
					NA	NR		
					NA			
	CL			12.0	NA			
			No Recovery from 8-12 ft-bgs	14.0	1.2	75		
15	SW		Dark Gray (10 YR 4/1), dry, SILTY CLAY, with gravel matrix, no odor, CLAY layer at 16 ft-bgs		0.8			
					0.7			
					0.4			
					0.2			
20			Dark gray (10YR 4/1), dry, SAND, well graded, no odor	20.0	0.2			
	SW		Wet at 17 to 18 ft bgs					
			Water at 19 to 20 ft-bgs	24.0				
25			2.5 Y 7/2. wet, SAND, well graded, fine to medium grainded, with gravel matric, no odor					
			Blank drilled from 24 ft-bgs					
30								
35								
40								
45								
50			Bottom of Boring at 50 ft-bgs					

MW-14D



TPV = Total Photo-Ionization Vapors
TFV = Total Flame-Ionization Vapors
PPM = Parts Per Million
BGS = Below Ground Surface
USCS = United Soil Classification System

06-22-200[illegible] r:\2001\M01046 Michigan Meadows Apts\Boring Logs\Nov 08-Feb 09\M01046 MW-13D.bor

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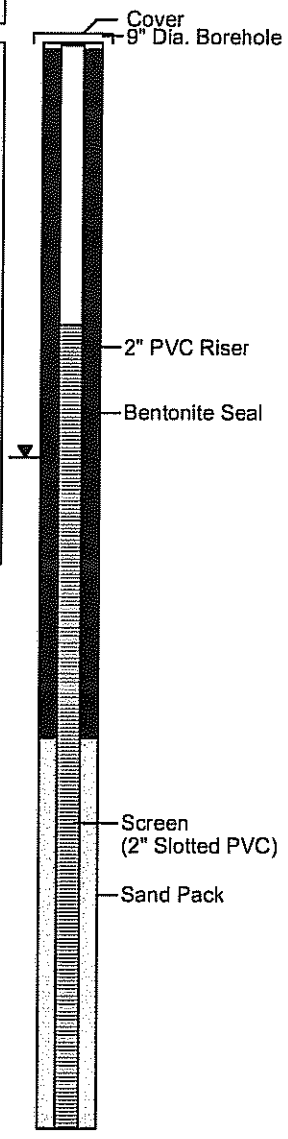
caring for the earth and all it holds

Boring/Well ID: MW-14D

CLIENT: AIMCO	FIELD GEOLOGIST: LL
PROJECT LOCATION: Indianapolis, IN	DATE BEGAN: 12/10/08
PROJECT NAME: Michigan Meadows	DATE FINISHED: 11/26/08
PROJECT NUMBER: M01046	DRILLING METHOD: Geoprobe/Direct Push
DRILLING CONTRACTOR: Midway	DRILLING EQUIPMENT: 5410 & HSA
DRILLER: Midway	GW DEPTH (OBSERVED):
BORING LOCATION: West of Bldg 2	SURFACE ELEVATION:

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID
0	GR							
	CL		Grass, topsoil	0.16	0.2			
			Dark brown, slightly moist, SILTY CLAY, with trace sand, no odor, grass roots observed	2.0	0.2	60		
					0.6			
5	CL		Dark brown (10YR 3/3), dry, SILTY CLAY, fine to medium grained sand, , no odor		0.6			
					NA			
					2.2	75		
					0.8			
				7.5	0.8			
			Light gray (2.5 Y 7/2), dry, SAND, well graded, fine to medium grained, with gravel matrix, no odor		2.4			
10					2.1	70		
	SW		Cobble layer at 8 ft-bgs		0.8			
					0.8			
					NA			
					0.7	75		
15			Cobble layer at 15 to 16 ft-bgs	15.0	0.2			
				16.0	0.4			
	SW		Wet at 16 ft-bgs		1.0			
	CL			17.0	NA	60		
			Clay seam at 17 ft-bgs with trace sand	17.50	2.4			
20			, SAND, well graded		2.8			
	SW				NA			
					3.2	50		
				24.0	3.3			
25			Blank drilled from 24 ft-bgs					
30								
35								
40								
45								
50			Bottom of the boring at 50 ft-bgs					

MW-14D



TPV = Total Photo-Ionization Vapors
TFV = Total Flame-Ionization Vapors
PPM = Parts Per Million
BGS = Below Ground Surface
USCS = United Soil Classification System

05-01-2009 r:\2001\M01046 Michigan Meadows Apts\Boring Logs\Nov 08-Feb 09\M01046 MW-13D.bor

APPENDIX B

GEOPHYSICAL WELL LOGS

110 South Downey Avenue
Indianapolis, Indiana 46219
317-630-9060, fax 317-630-9065
www.MundellAssociates.com

PROJECT NAME: Michigan Meadows Apts.
PROJECT NUMBER: M01046

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CO Mundell and Associates
WELL MMW-08S
LOC 60'S of Apt. Building 10
CTY Indianapolis
STE Indiana
PROJECT NO. M01046

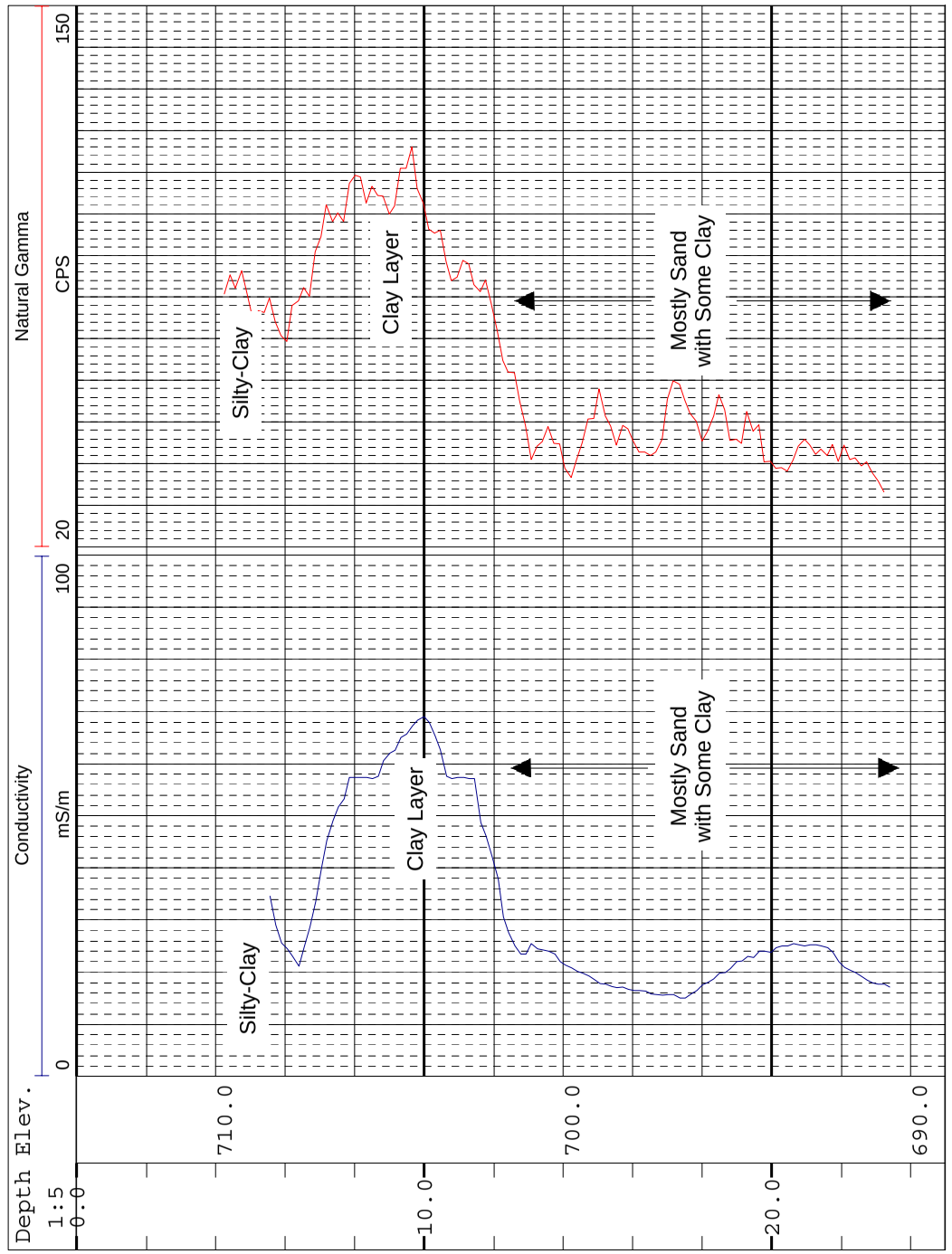
COMPANY	Mundell and Associates
WELL ID	MMW-08S
CITY	Indianapolis
STATE	Indiana
COUNTRY	U.S.A.

LOCATION	OTHER SERVICES
Approximately 10' N of Michigan St. and 60' S of Michigan Meadows Apartment Building 10.	EM Conductivity and Natural Gamma Logs
SEC TWP RGE	

PERMANENT DATUM	N/A		ELEVATION	714.24'	K.B. N/A
LOG MEAS. FROM	TOC		ABOVE PERM. DATUM		D.F. N/A
DRILLING MEAS. FROM	Ground Surface				G.L. N/A

DATE	08/25/11	TYPE FLUID IN HOLE	Water
RUN No		SALINITY	N/A
TYPE LOG	Conductivity, Gamma	DENSITY	N/A
DEPTH-DRILLER	NA	LEVEL	N/A
DEPTH-LOGGER	NA	MAX. REC. TEMP.	N/A
BTM LOGGED INTERVAL	23.15' from TOC	SEAL NUMBER	NA
TOP LOGGED INTERVAL	3.94' from TOC		
OPERATING RIG TIME	N/A		
RECORDED BY	Gabriel Hebert		
WITNESSED BY	Pilar Cuadra		

RUN	BOREHOLE RECORD			CASING RECORD			
NO.	BIT	FROM	TO	SIZE	WGT.	FROM	TO



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PROJECT NAME: Michigan Meadows Apts.
PROJECT NUMBER: M01046

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CO Mundell and Associates
WELL MMW-09S
LOC Aprox. 80' S of Bld. 1, in grass
CTY Indianapolis
STE Indiana
PROJECT NO. M01046

COMPANY	Mundell and Associates
WELL ID	MMW-09S
CITY	Indianapolis
STATE	Indiana
COUNTRY	U.S.A.

LOCATION

Approximately 25' N of Michigan St. and 80' S of Michigan Meadows Apartment Building 1, in the grass.

SEC TWP RGE

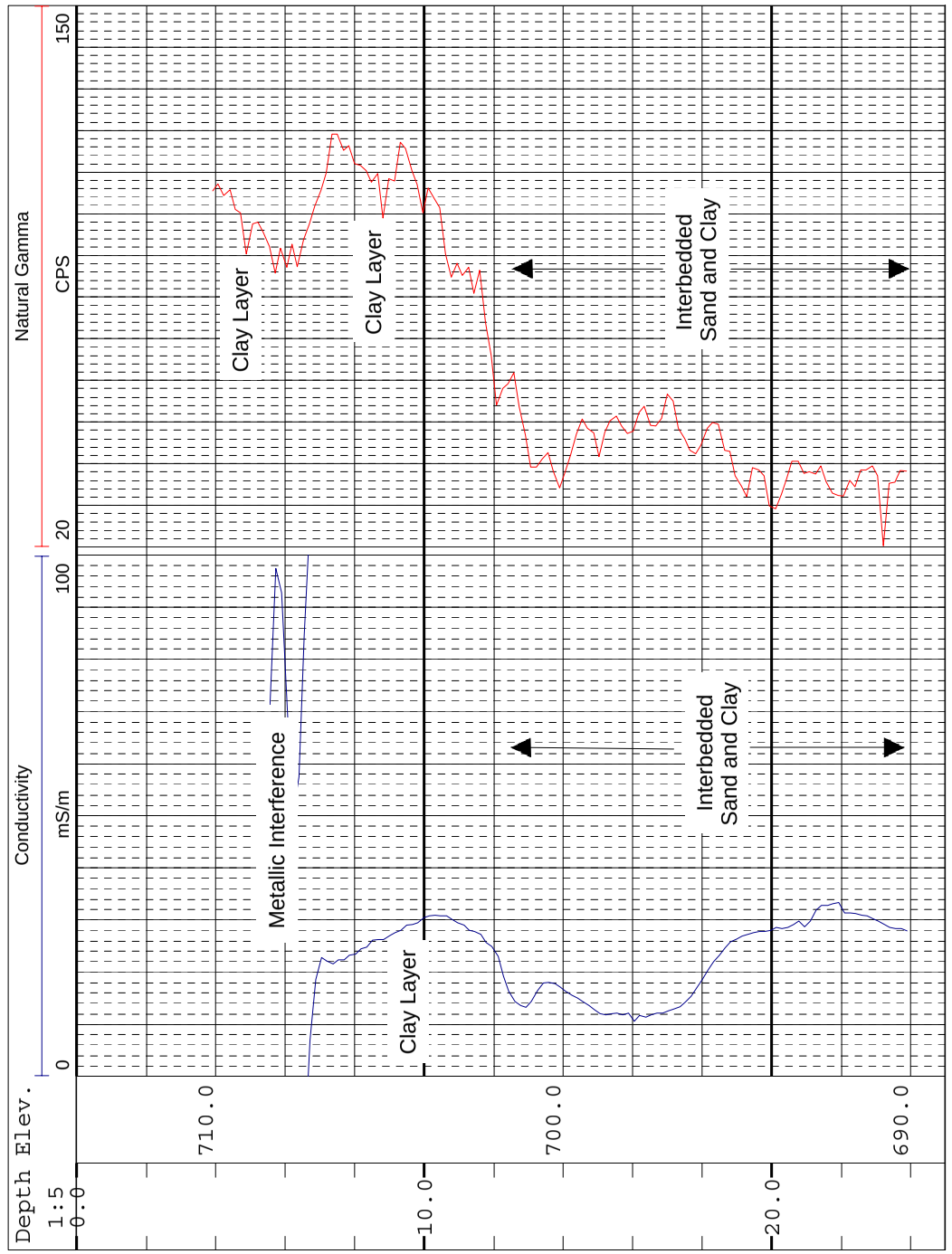
OTHER SERVICES

EM Conductivity and Natural Gamma Logs

PERMANENT DATUM	N/A	ELEVATION	713.71'	K.B.	N/A
LOG MEAS. FROM	TOC	ABOVE PERM. DATUM		D.F.	N/A
DRILLING MEAS. FROM	Ground Surface			G.L.	N/A

DATE	08/25/11	TYPE FLUID IN HOLE	Water
RUN No		SALINITY	N/A
TYPE LOG	Conductivity, Gamma	DENSITY	N/A
DEPTH-DRILLER	NA	LEVEL	N/A
DEPTH-LOGGER	NA	MAX. REC. TEMP.	N/A
BTM LOGGED INTERVAL	23.90' from TOC	SEAL NUMBER	NA
TOP LOGGED INTERVAL	3.94' from TOC		
OPERATING RIG TIME	N/A		
RECORDED BY	Gabriel Hebert		
WITNESSED BY	Pilar Cuadra		

RUN	BOREHOLE RECORD			CASING RECORD			
NO.	BIT	FROM	TO	SIZE	WGT.	FROM	TO



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PROJECT NAME: Michigan Meadows Apts.
PROJECT NUMBER: M01046

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CO Mundell and Associates
WELL MMW-10S
LOC 60'S of Apt. Building 1
CTY Indianapolis
STE Indiana
PROJECT NO. M01046

COMPANY Mundell and Associates
WELL ID MMW-10S
CITY Indianapolis
STATE Indiana COUNTRY U.S.A.

LOCATION
Approximately 60' N of Michigan St. and 60' S of Michigan Meadows Apartment Building 1, in the parking lot.

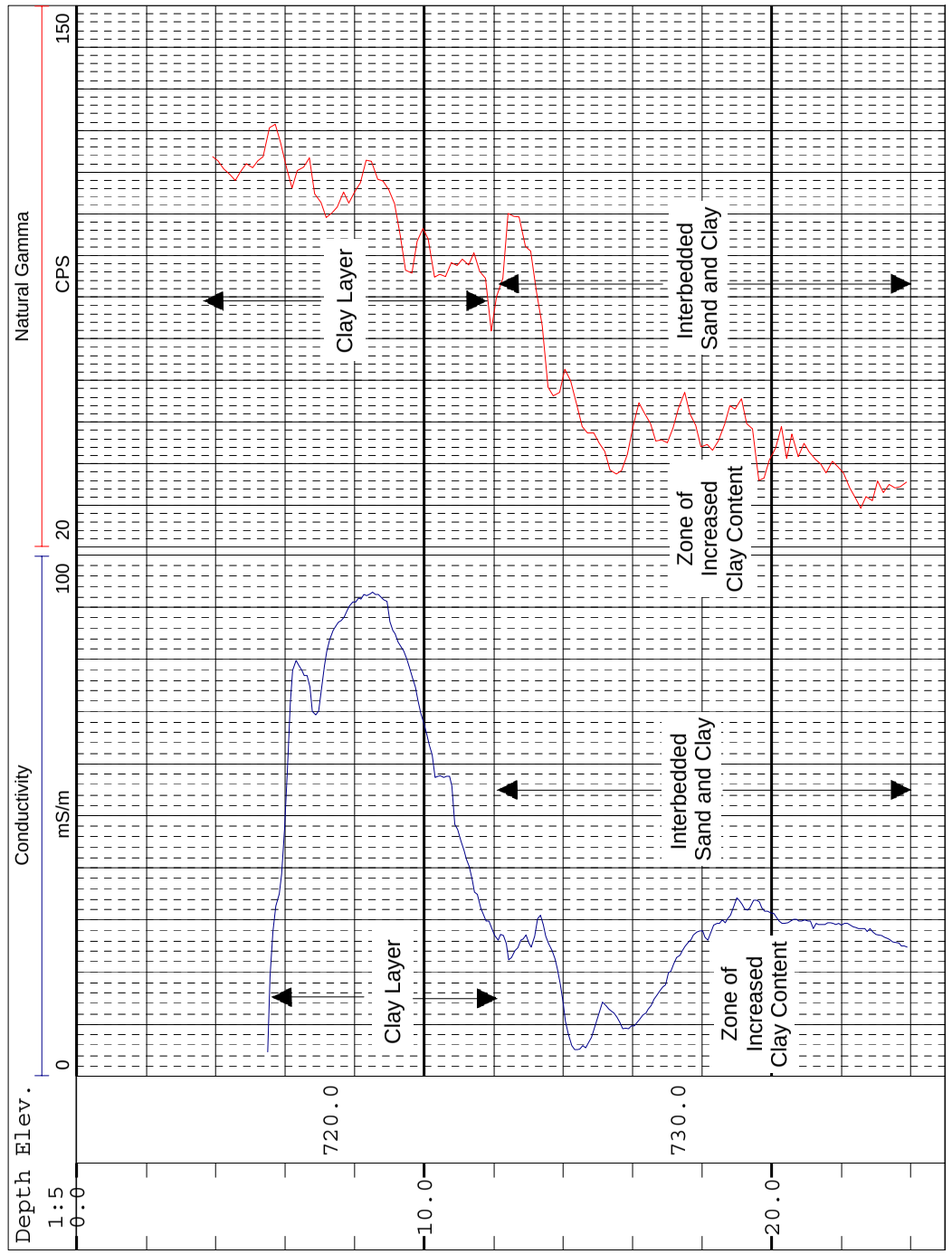
SEC TWP RGE

OTHER SERVICES
EM Conductivity and Natural Gamma Logs

PERMANENT DATUM	N/A	ELEVATION 712.69'	K.B. N/A
LOG MEAS. FROM	TOC	ABOVE PERM. DATUM	D.F. N/A
DRILLING MEAS. FROM	Ground Surface		G.L. N/A

DATE	08/25/11	TYPE FLUID IN HOLE	Water
RUN No		SALINITY	N/A
TYPE LOG	Conductivity, Gamma	DENSITY	N/A
DEPTH-DRILLER	NA	LEVEL	N/A
DEPTH-LOGGER	NA	MAX. REC. TEMP.	N/A
BTM LOGGED INTERVAL	24.0' from TOC	SEAL NUMBER	NA
TOP LOGGED INTERVAL	3.94' from TOC		
OPERATING RIG TIME	N/A		
RECORDED BY	Gabriel Hebert		
WITNESSED BY	Pilar Cuadra		

RUN	BOREHOLE RECORD			CASING RECORD			
NO.	BIT	FROM	TO	SIZE	WGT.	FROM	TO



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PROJECT NAME: Michigan Meadows Apts.
PROJECT NUMBER: M01046

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CO Mundell and Associates
WELL MMW-11D
LOC 7' E of Apt. Building 10
CTY Indianapolis
STE Indiana
PROJECT NO. M01046

COMPANY Mundell and Associates
WELL ID MMW-11D
CITY Indianapolis
STATE Indiana COUNTRY U.S.A.

LOCATION
The western well, In between Apartment Buildings 10 and 6.

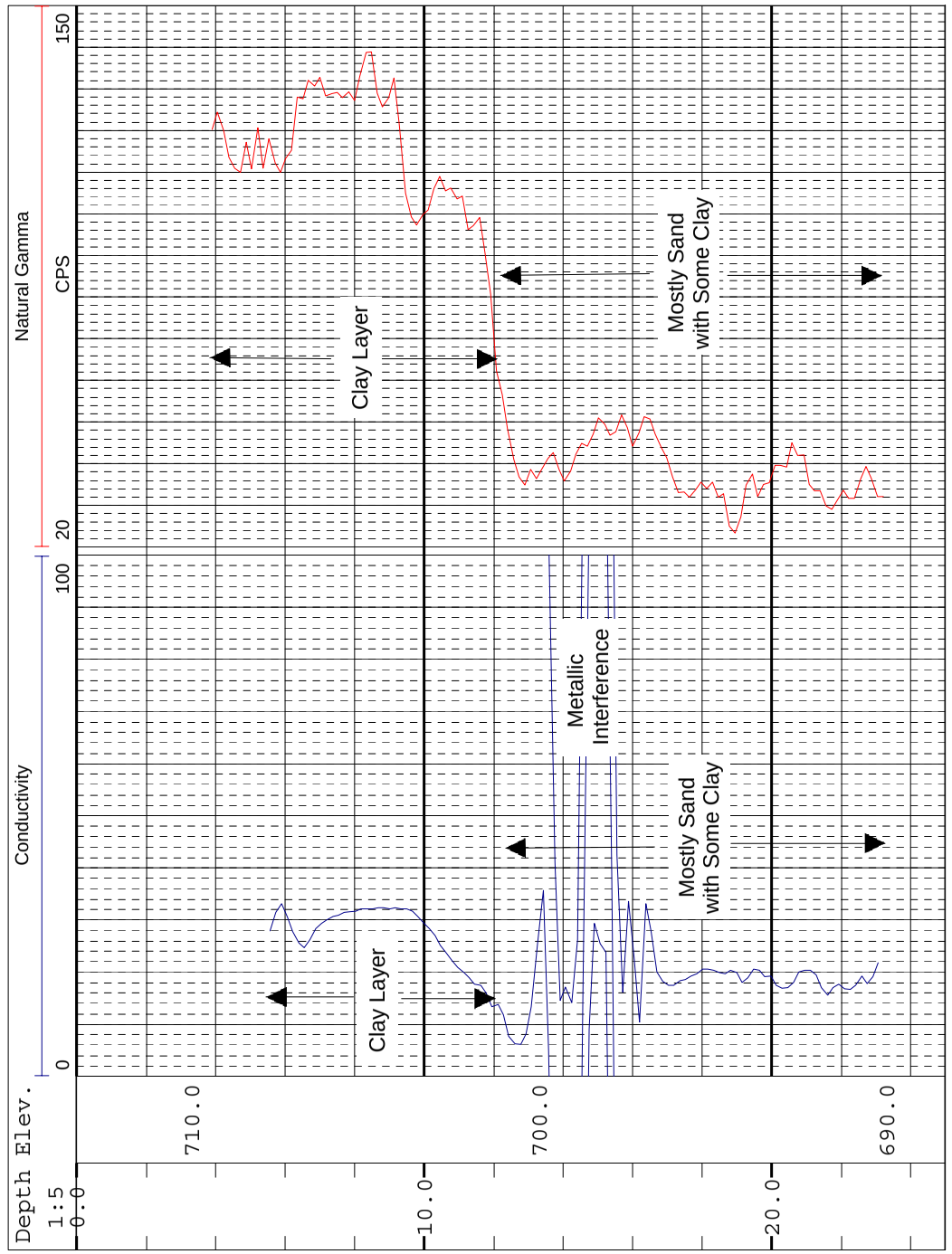
OTHER SERVICES
EM Conductivity and Natural Gamma Logs

SEC TWP RGE

PERMANENT DATUM	N/A	ELEVATION	713.33'	K.B.	N/A
LOG MEAS. FROM	TOC	ABOVE PERM. DATUM		D.F.	N/A
DRILLING MEAS. FROM	Ground Surface			G.L.	N/A

DATE	08/25/11	TYPE FLUID IN HOLE	Water
RUN No		SALINITY	N/A
TYPE LOG	Conductivity, Gamma	DENSITY	N/A
DEPTH-DRILLER	NA	LEVEL	N/A
DEPTH-LOGGER	NA	MAX. REC. TEMP.	N/A
BTM LOGGED INTERVAL	23.2' from TOC	SEAL NUMBER	NA
TOP LOGGED INTERVAL	3.94' from TOC		
OPERATING RIG TIME	N/A		
RECORDED BY	Gabriel Hebert		
WITNESSED BY	Pilar Cuadra		

RUN	BOREHOLE RECORD			CASING RECORD			
NO.	BIT	FROM	TO	SIZE	WGT.	FROM	TO



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PROJECT NAME: Michigan Meadows Apts.
PROJECT NUMBER: M01046

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CO Mundell and Associates
WELL MMW-13D
LOC 45'W of Apt. Building 9
CTY Indianapolis
STE Indiana
PROJECT NO. M01046

COMPANY Mundell and Associates
WELL ID MMW-13D
CITY Indianapolis
STATE Indiana COUNTRY U.S.A.

LOCATION
Approximately 200' N of Michigan St. and 45' W of Michigan Meadows Apartment Building 9, in the grass.

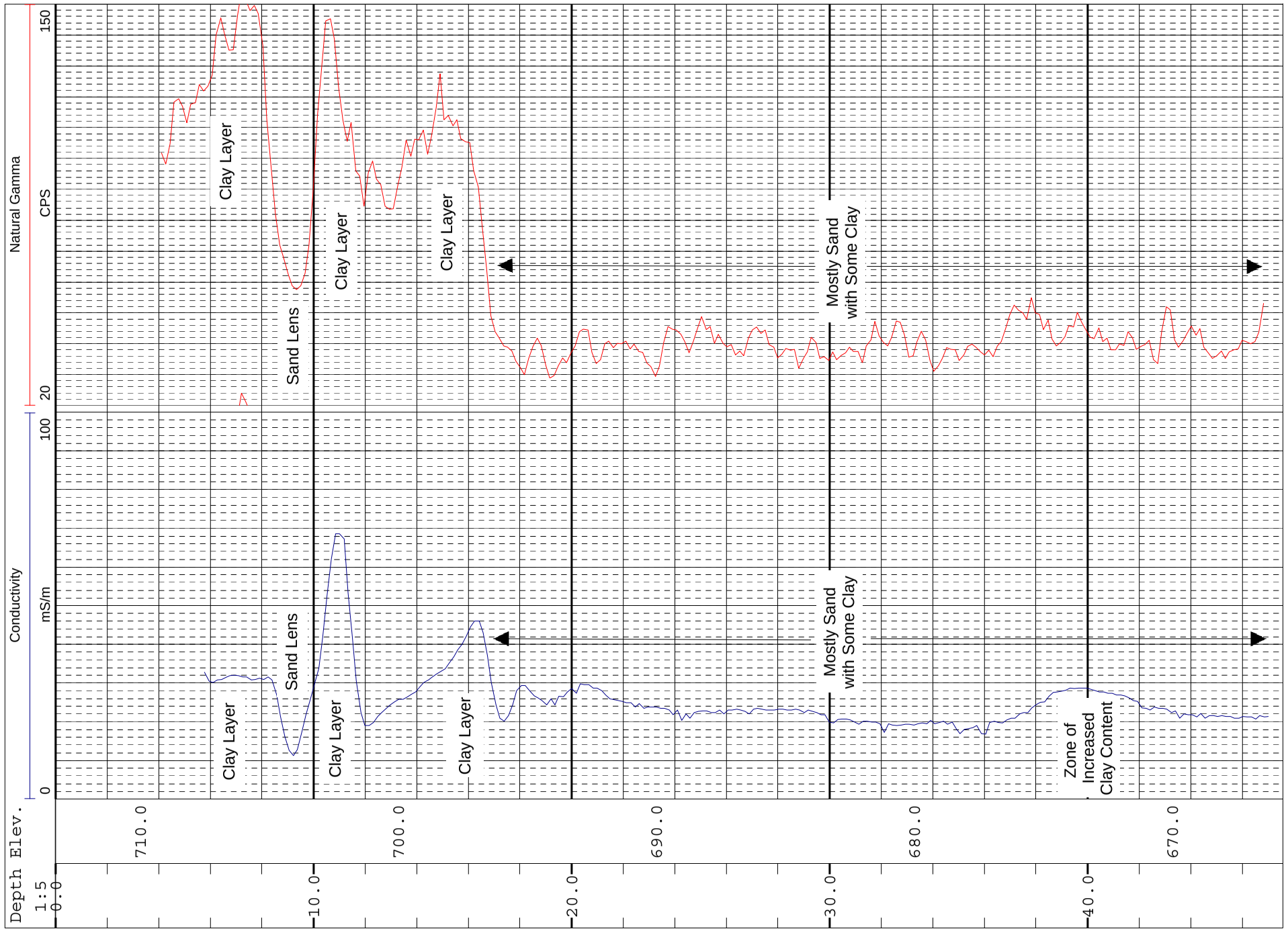
SEC TWP RGE

OTHER SERVICES
EM Conductivity and Natural Gamma Logs

PERMANENT DATUM	N/A	ELEVATION 713.28'	K.B. N/A
LOG MEAS. FROM	TOC	ABOVE PERM. DATUM	D.F. N/A
DRILLING MEAS. FROM	Ground Surface		G.L. N/A

DATE	08/25/11	TYPE FLUID IN HOLE	Water
RUN No		SALINITY	N/A
TYPE LOG	Conductivity, Gamma	DENSITY	N/A
DEPTH-DRILLER	NA	LEVEL	N/A
DEPTH-LOGGER	NA	MAX. REC. TEMP.	N/A
BTM LOGGED INTERVAL	47.0' from TOC	SEAL NUMBER	NA
TOP LOGGED INTERVAL	3.94' from TOC		
OPERATING RIG TIME	N/A		
RECORDED BY	Gabriel Hebert		
WITNESSED BY	Pilar Cuadra		

RUN	BOREHOLE RECORD			CASING RECORD			
NO.	BIT	FROM	TO	SIZE	WGT.	FROM	TO



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PROJECT NAME: Michigan Meadows Apts.
PROJECT NUMBER: M01046

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CO Mundell and Associates
WELL MMW-14D
LOC 20'W of Apt. Building 2
CTY Indianapolis
STE Indiana
PROJECT NO. M01046

COMPANY Mundell and Associates
WELL ID MMW-14D
CITY Indianapolis
STATE Indiana COUNTRY U.S.A.

LOCATION
Approximately 200' N of Michigan St. and 20' W of Michigan Meadows Apartment Building 2, in the grass.

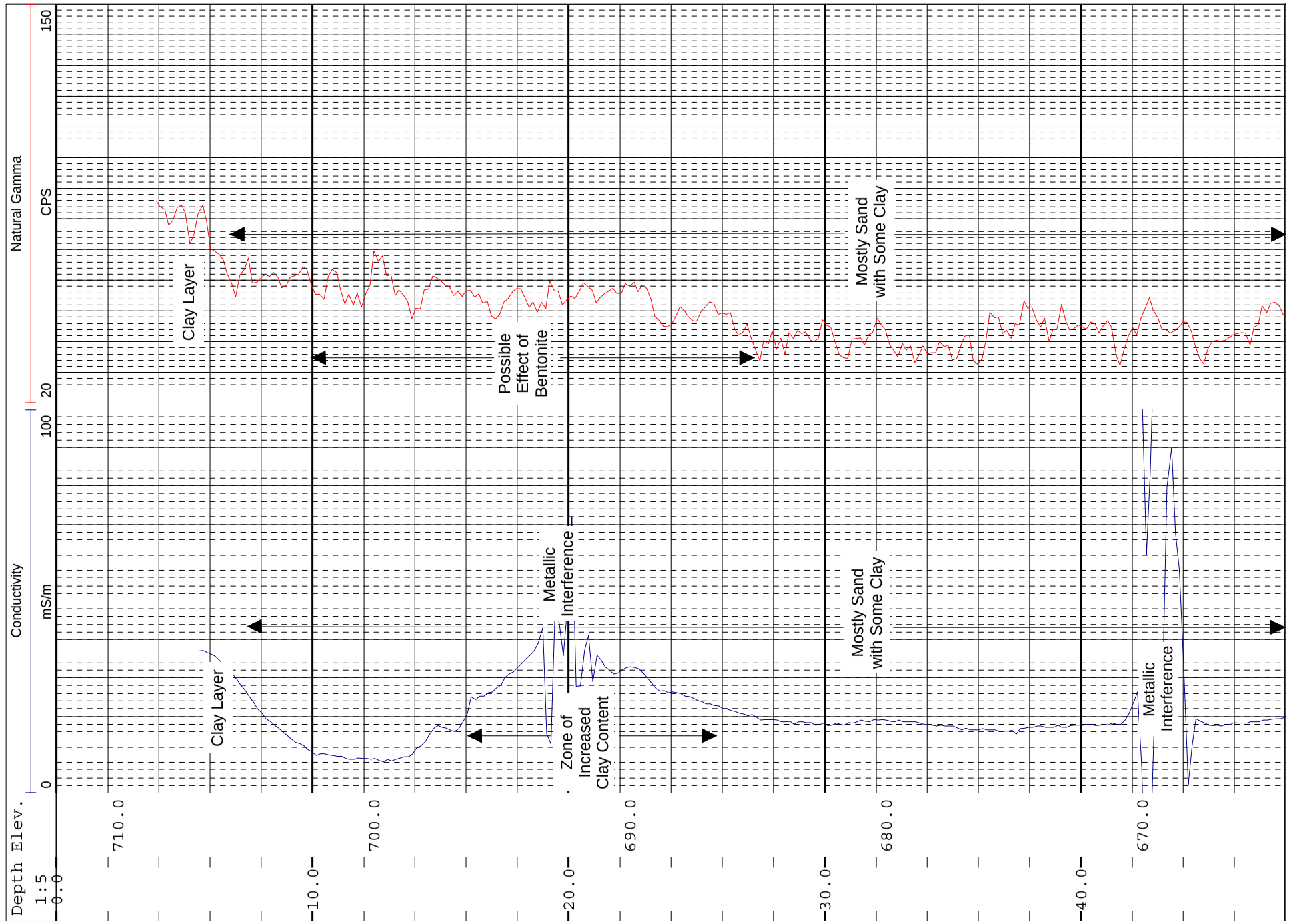
SEC TWP RGE

OTHER SERVICES
EM Conductivity and Natural Gamma Logs

PERMANENT DATUM	N/A		ELEVATION	712.41'	K.B. N/A
LOG MEAS. FROM	TOC		ABOVE PERM. DATUM		D.F. N/A
DRILLING MEAS. FROM	Ground Surface				G.L. N/A

DATE	08/25/11	TYPE FLUID IN HOLE	Water
RUN No		SALINITY	N/A
TYPE LOG	Conductivity, Gamma	DENSITY	N/A
DEPTH-DRILLER	NA	LEVEL	N/A
DEPTH-LOGGER	NA	MAX. REC. TEMP.	N/A
BTM LOGGED INTERVAL	48.1' from TOC	SEAL NUMBER	NA
TOP LOGGED INTERVAL	3.94' from TOC		
OPERATING RIG TIME	N/A		
RECORDED BY	Gabriel Hebert		
WITNESSED BY	Pilar Cuadra		

RUN	BOREHOLE RECORD			CASING RECORD			
NO.	BIT	FROM	TO	SIZE	WGT.	FROM	TO



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PROJECT NAME: Michigan Meadows Apts.
PROJECT NUMBER: M01046

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CO Mundell and Associates
WELL MMW-P-02
LOC Alley Behind Michigan Plaza
CTY Indianapolis
STE Indiana
PROJECT NO. M01046

COMPANY Mundell and Associates
WELL ID MMW-P-02
CITY Indianapolis
STATE Indiana COUNTRY U.S.A.

LOCATION
In the alley behind Michgian Plaza, approximately 7' S of the Tire Shop.

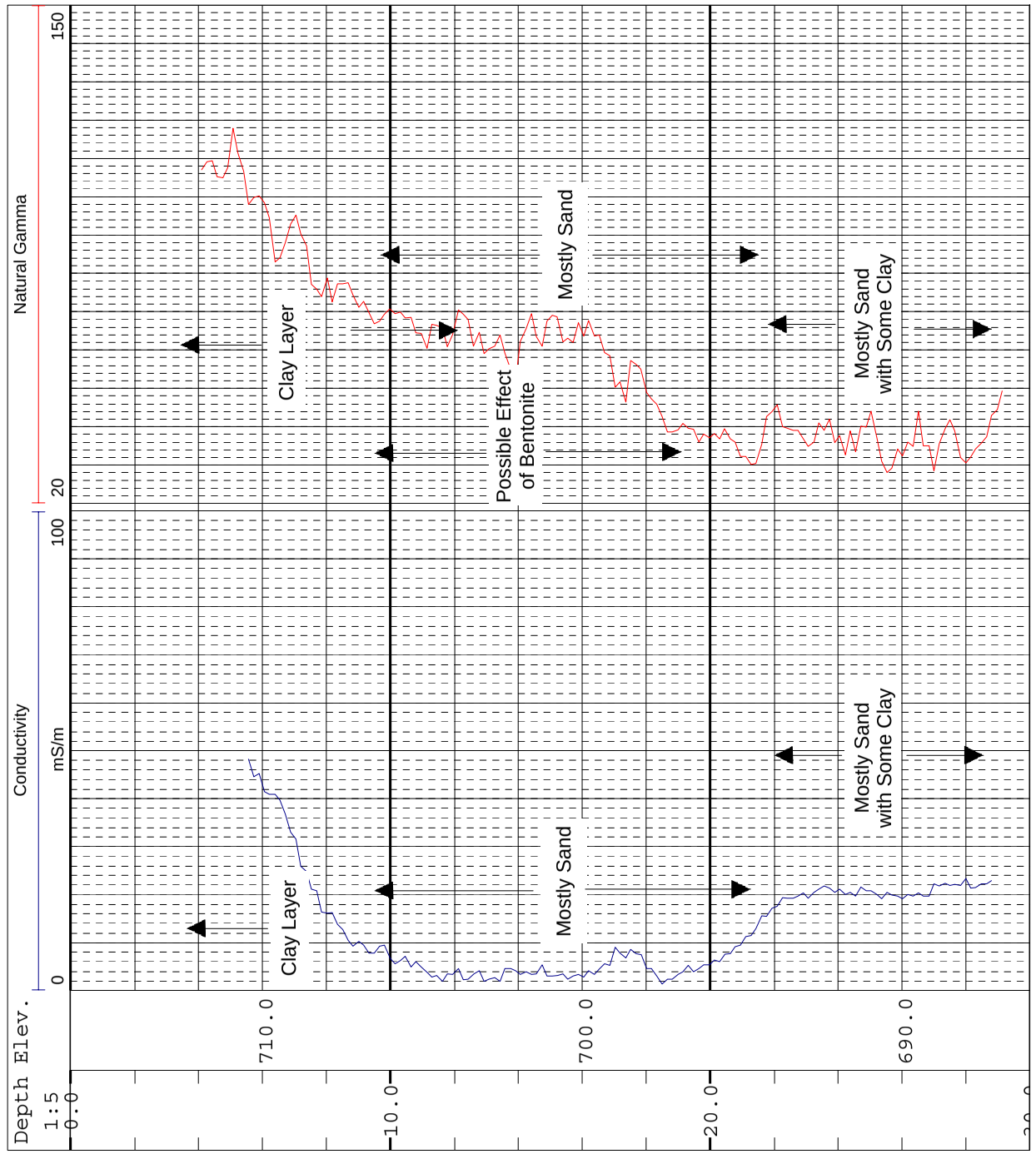
SEC TWP RGE

OTHER SERVICES
EM Conductivity and Natural Gamma Logs

PERMANENT DATUM	N/A		ELEVATION	716.09'	K.B. N/A
LOG MEAS. FROM	TOC		ABOVE PERM. DATUM		D.F. N/A
DRILLING MEAS. FROM	Ground Surface				G.L. N/A

DATE	08/25/11	TYPE FLUID IN HOLE	Water
RUN No		SALINITY	N/A
TYPE LOG	Conductivity, Gamma	DENSITY	N/A
DEPTH-DRILLER	NA	LEVEL	N/A
DEPTH-LOGGER	NA	MAX. REC. TEMP.	N/A
BTM LOGGED INTERVAL	28.9' from TOC	SEAL NUMBER	NA
TOP LOGGED INTERVAL	3.94' from TOC		
OPERATING RIG TIME	N/A		
RECORDED BY	Gabriel Hebert		
WITNESSED BY	Pilar Cuadra		

RUN	BOREHOLE RECORD			CASING RECORD			
NO.	BIT	FROM	TO	SIZE	WGT.	FROM	TO



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PROJECT NAME: Michigan Meadows Apts.
PROJECT NUMBER: M01046

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CO Mundell and Associates
WELL MMW-P-03D
LOC Alley behind Mi. Plaza
CTY Indianapolis
STE Indiana
PROJECT NO. M01046

COMPANY Mundell and Associates
WELL ID MMW-P-03D
CITY Indianapolis
STATE Indiana COUNTRY U.S.A.

LOCATION
In the center of the alley behind Michigan Plaza, approximately 10' S of the Arca de Salvacion.

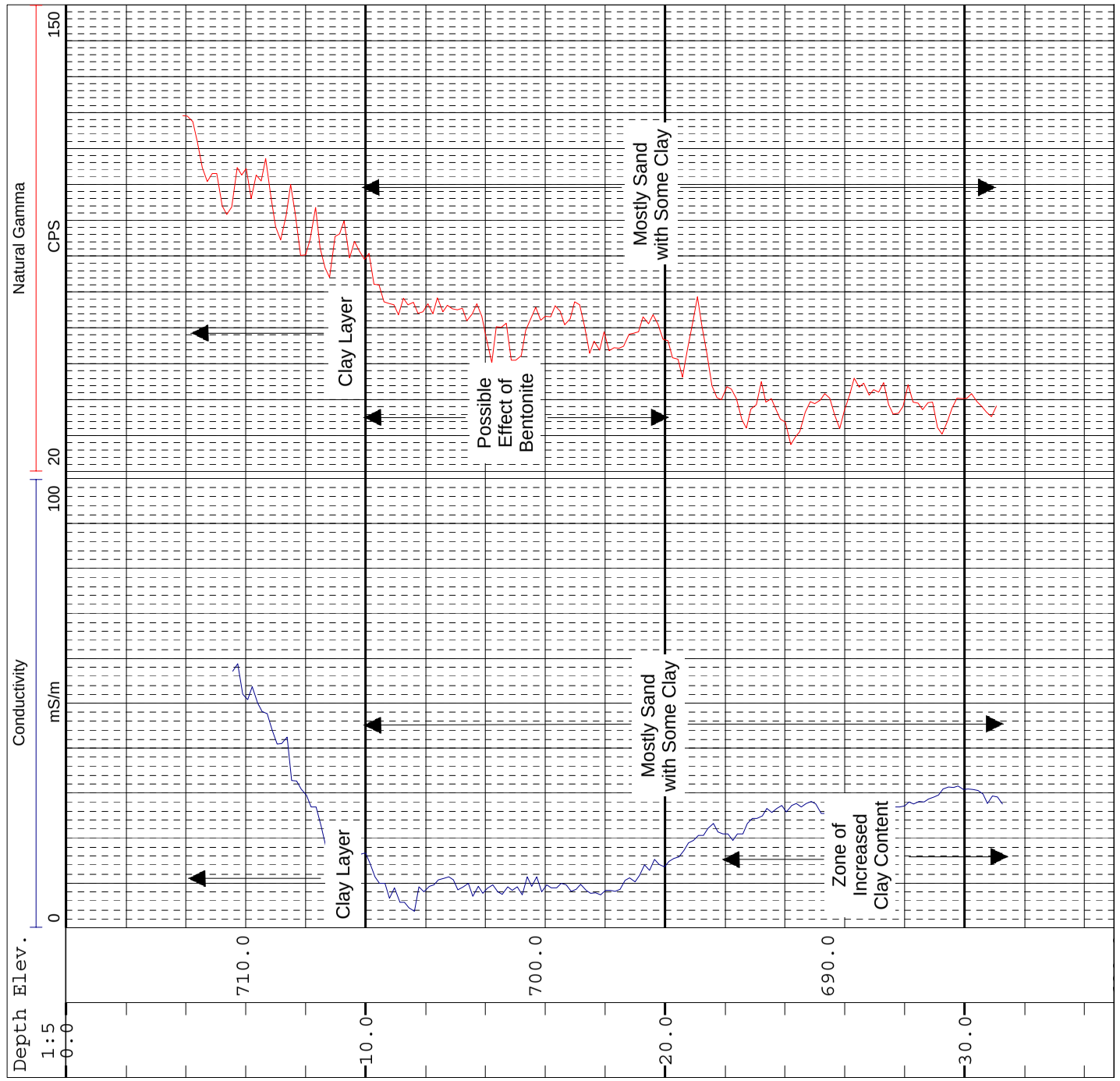
SEC TWP RGE

OTHER SERVICES
EM Conductivity and Natural Gamma Logs

PERMANENT DATUM	N/A	ELEVATION	716.02'	K.B.	N/A
LOG MEAS. FROM	TOC	ABOVE PERM. DATUM		D.F.	N/A
DRILLING MEAS. FROM	Ground Surface			G.L.	N/A

DATE	08/25/11	TYPE FLUID IN HOLE	Water
RUN No		SALINITY	N/A
TYPE LOG	Conductivity, Gamma	DENSITY	N/A
DEPTH-DRILLER	NA	LEVEL	N/A
DEPTH-LOGGER	NA	MAX. REC. TEMP.	N/A
BTM LOGGED INTERVAL	31.3' from TOC	SEAL NUMBER	NA
TOP LOGGED INTERVAL	3.94' from TOC		
OPERATING RIG TIME	N/A		
RECORDED BY	Gabriel Hebert		
WITNESSED BY	Pilar Cuadra		

RUN	BOREHOLE RECORD			CASING RECORD			
NO.	BIT	FROM	TO	SIZE	WGT.	FROM	TO



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PROJECT NAME: Michigan Meadows Apts.
PROJECT NUMBER: M01046

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CO Mundell and Associates
WELL MMW-P-07
LOC 75' NW of the Village Pantry
CTY Indianapolis
STE Indiana
PROJECT NO. M01046

COMPANY Mundell and Associates
WELL ID MMW-P-03D
CITY Indianapolis
STATE Indiana COUNTRY U.S.A.

LOCATION
Approximately 75' NW of the Village Pantry and 50' S of Michigan St.

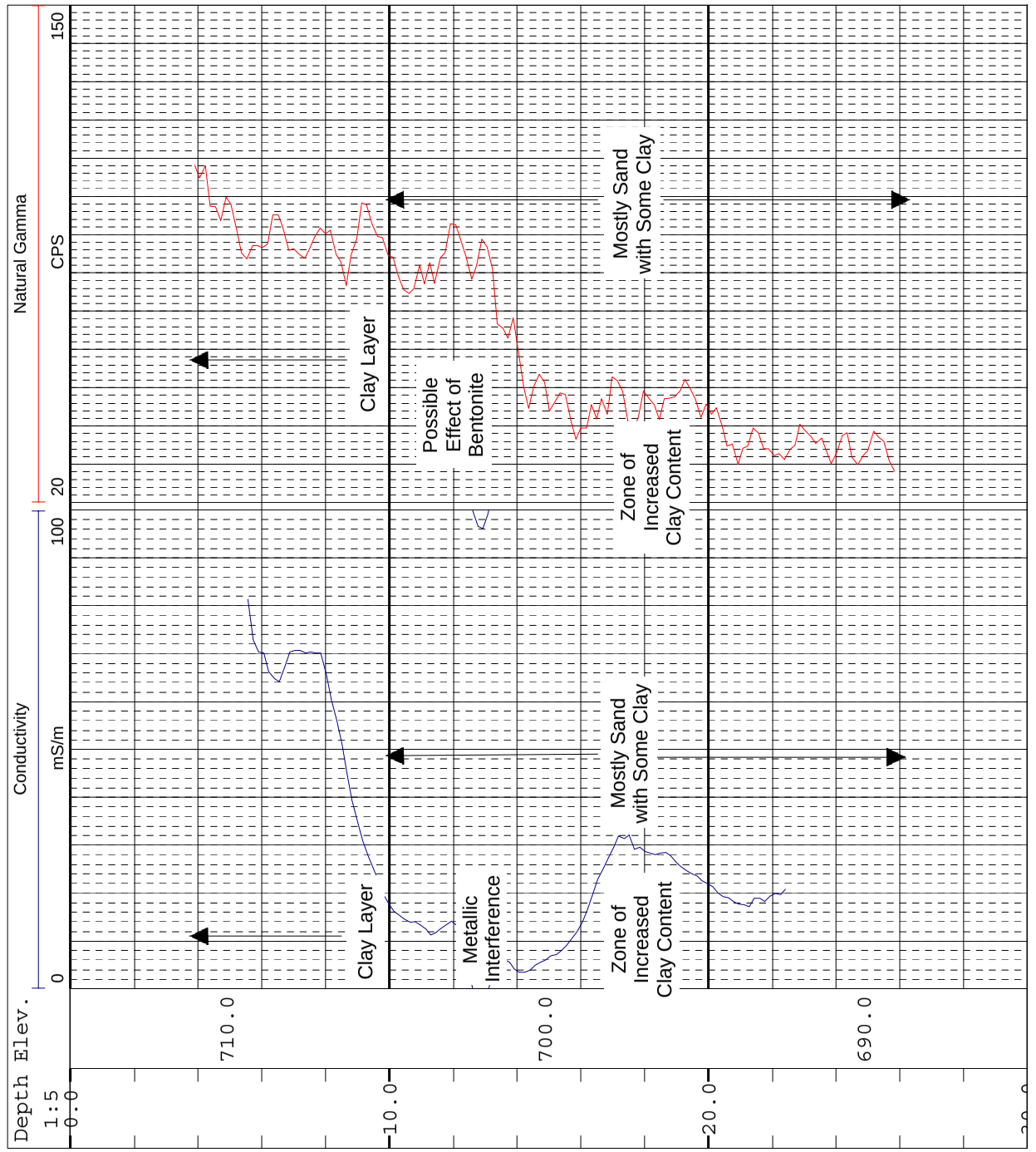
SEC TWP RGE

OTHER SERVICES
EM Conductivity and Natural Gamma Logs

PERMANENT DATUM	N/A	ELEVATION	714.90'	K.B.	N/A
LOG MEAS. FROM	TOC	ABOVE PERM. DATUM		D.F.	N/A
DRILLING MEAS. FROM	Ground Surface			G.L.	N/A

DATE	08/25/11	TYPE FLUID IN HOLE	Water
RUN No		SALINITY	N/A
TYPE LOG	Conductivity, Gamma	DENSITY	N/A
DEPTH-DRILLER	NA	LEVEL	N/A
DEPTH-LOGGER	NA	MAX. REC. TEMP.	N/A
BTM LOGGED INTERVAL	25.8' from TOC	SEAL NUMBER	NA
TOP LOGGED INTERVAL	3.94' from TOC		
OPERATING RIG TIME	N/A		
RECORDED BY	Gabriel Hebert		
WITNESSED BY	Pilar Cuadra		

RUN	BOREHOLE RECORD			CASING RECORD			
NO.	BIT	FROM	TO	SIZE	WGT.	FROM	TO



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PROJECT NAME: Michigan Meadows Apts.
PROJECT NUMBER: M01046

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CO Mundell and Associates
WELL MMW-P-09D
LOC 15' N of Cossell Road
CTY Indianapolis
STE Indiana
PROJECT NO. M01046

COMPANY	Mundell and Associates
WELL ID	MMW-P-09D
CITY	Indianapolis
STATE	Indiana
COUNTRY	U.S.A.

LOCATION

Approximately 30' NW of the intersection of Cossell Road and Olin Avenue in the grass.

SEC TWP RGE

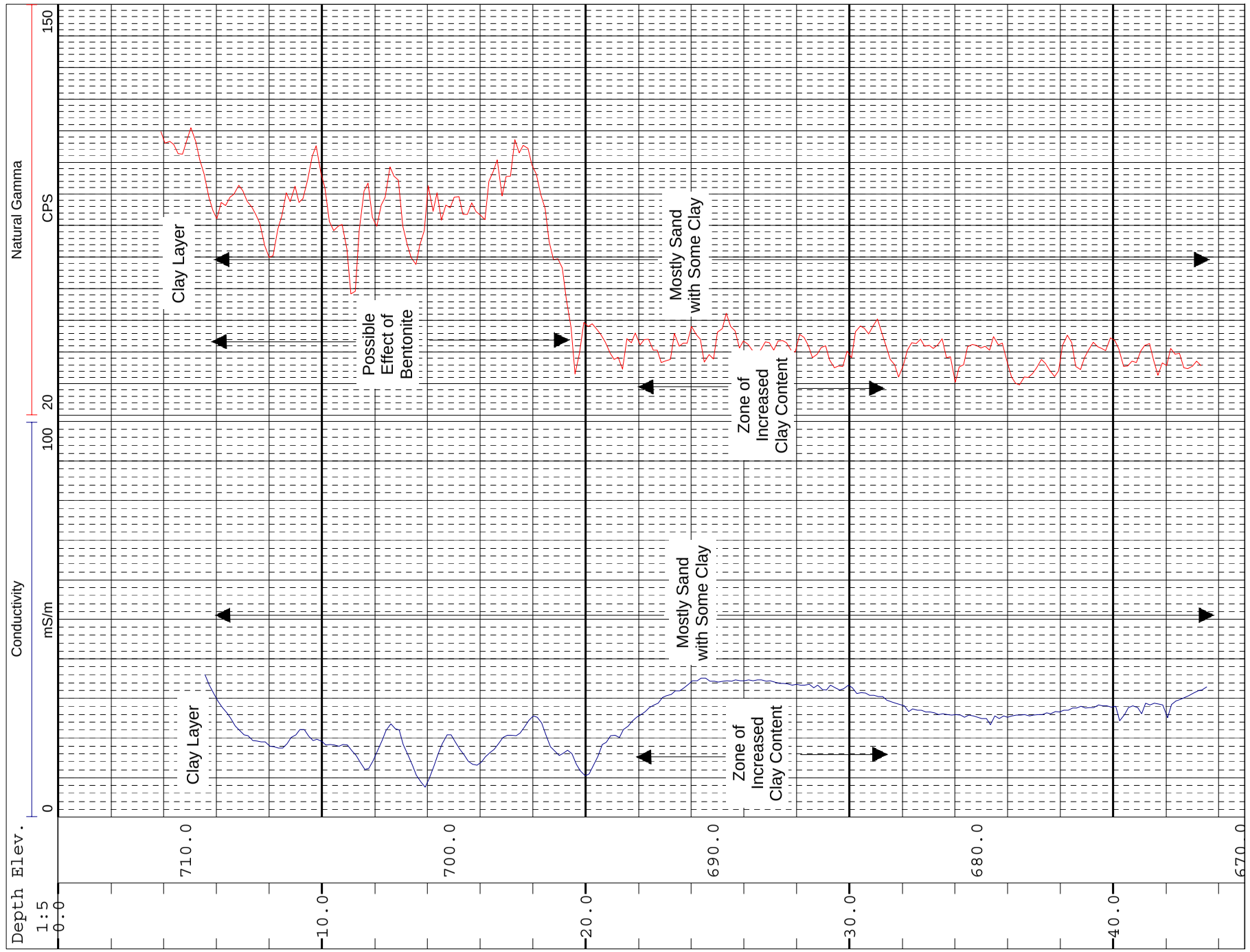
OTHER SERVICES

EM Conductivity and Natural Gamma Logs

PERMANENT DATUM	N/A		ELEVATION	714.82'	K.B. N/A
LOG MEAS. FROM	TOC		ABOVE PERM. DATUM		D.F. N/A
DRILLING MEAS. FROM	Ground Surface				G.L. N/A

DATE	08/25/11	TYPE FLUID IN HOLE	Water
RUN No		SALINITY	N/A
TYPE LOG	Conductivity, Gamma	DENSITY	N/A
DEPTH-DRILLER	NA	LEVEL	N/A
DEPTH-LOGGER	NA	MAX. REC. TEMP.	N/A
BTM LOGGED INTERVAL	43.5' from TOC	SEAL NUMBER	NA
TOP LOGGED INTERVAL	3.94' from TOC		
OPERATING RIG TIME	N/A		
RECORDED BY	Gabriel Hebert		
WITNESSED BY	Pilar Cuadra		

RUN	BOREHOLE RECORD			CASING RECORD			
NO.	BIT	FROM	TO	SIZE	WGT.	FROM	TO



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PROJECT NAME: Michigan Meadows Apts.
PROJECT NUMBER: M01046

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CO Mundell and Associates
WELL MMW-P-10S
LOC 75' NW of the Village Pantry
CTY Indianapolis
STE Indiana
PROJECT NO. M01046

COMPANY Mundell and Associates
WELL ID MMW-P-03D
CITY Indianapolis
STATE Indiana COUNTRY U.S.A.

LOCATION
Approximately 100' NW of the Village Pantry and 70' S of Michigan St.

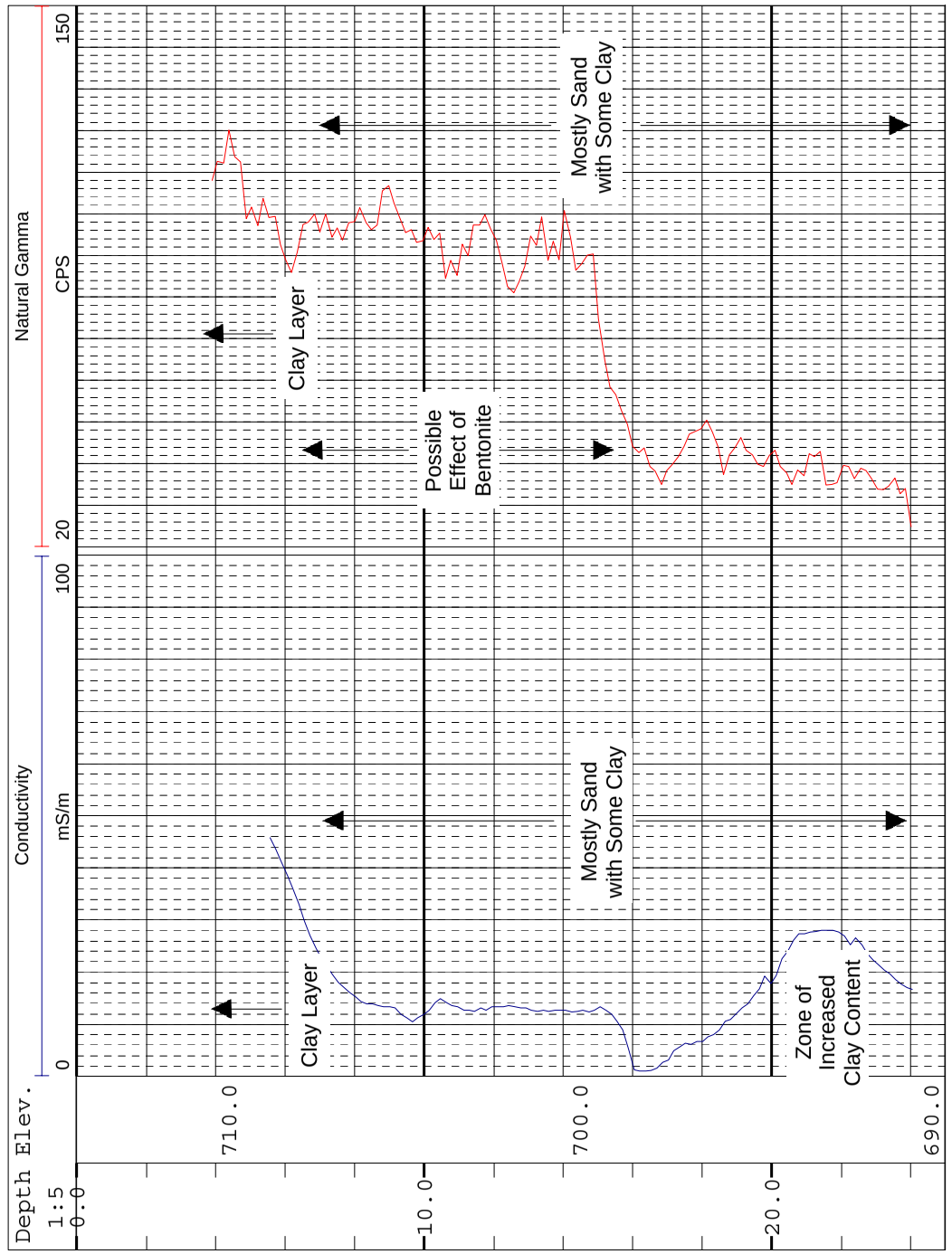
OTHER SERVICES
EM Conductivity and Natural Gamma Logs

SEC TWP RGE

PERMANENT DATUM	N/A		ELEVATION	714.35'	K.B. N/A
LOG MEAS. FROM	TOC		ABOVE PERM. DATUM		D.F. N/A
DRILLING MEAS. FROM	Ground Surface				G.L. N/A

DATE	08/25/11	TYPE FLUID IN HOLE	Water
RUN No		SALINITY	N/A
TYPE LOG	Conductivity, Gamma	DENSITY	N/A
DEPTH-DRILLER	NA	LEVEL	N/A
DEPTH-LOGGER	NA	MAX. REC. TEMP.	N/A
BTM LOGGED INTERVAL	24.1' from TOC	SEAL NUMBER	NA
TOP LOGGED INTERVAL	3.94' from TOC		
OPERATING RIG TIME	N/A		
RECORDED BY	Gabriel Hebert		
WITNESSED BY	Pilar Cuadra		

RUN	BOREHOLE RECORD			CASING RECORD			
NO.	BIT	FROM	TO	SIZE	WGT.	FROM	TO



110 South Downey Avenue
Indianapolis, Indiana 46219
317-630-9060, fax 317-630-9065
www.MundellAssociates.com

PROJECT NAME: Michigan Meadows Apts.
PROJECT NUMBER: M01046

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CO Mundell and Associates
WELL MMW-P-10D
LOC 100' NW of the Village Pantry
CTY Indianapolis
STE Indiana
PROJECT NO. M01046

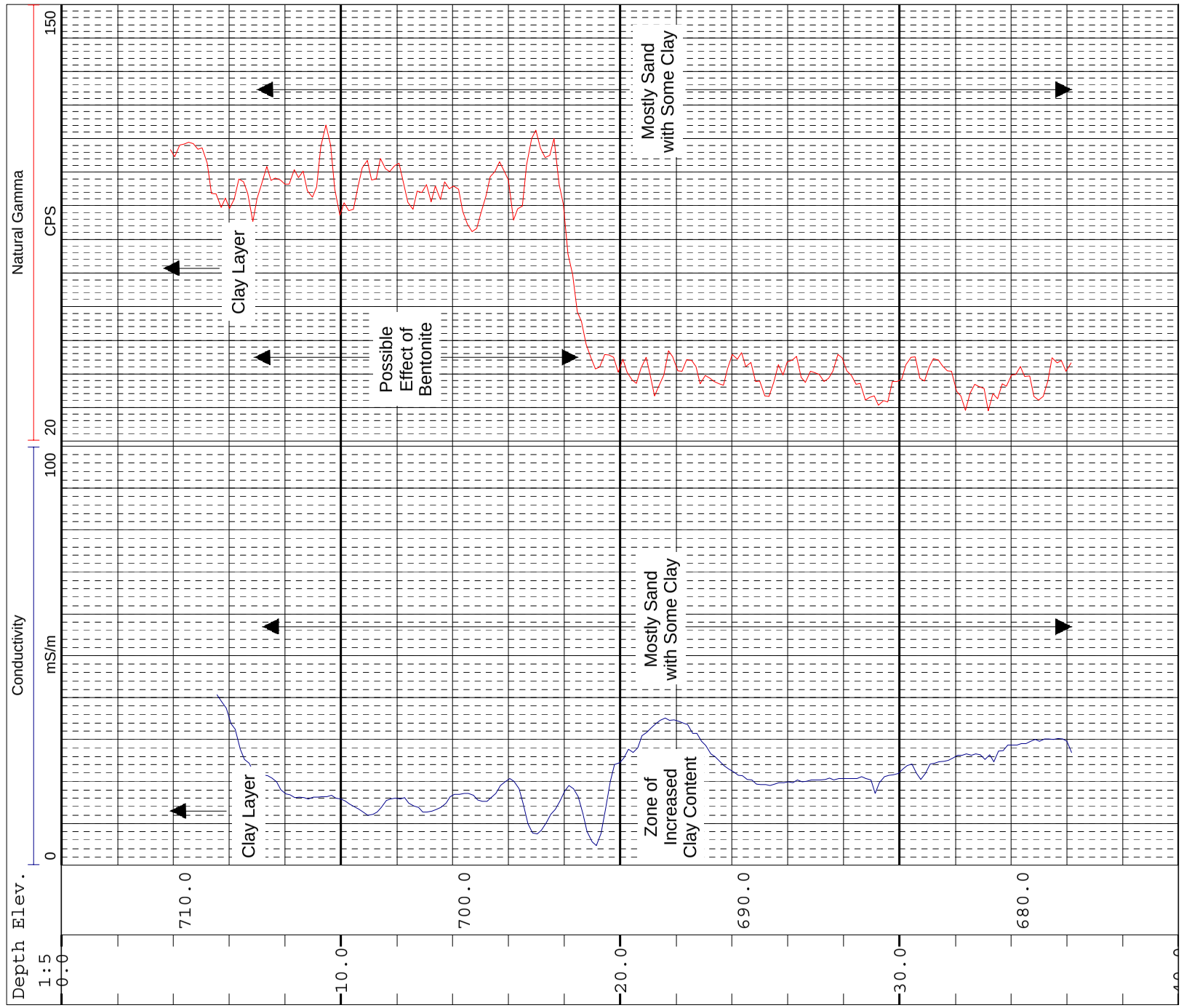
COMPANY	Mundell and Associates
WELL ID	MMW-P-03D
CITY	Indianapolis
STATE	Indiana
COUNTRY	U.S.A.

LOCATION	OTHER SERVICES
Approximately 100' NW of the Village Pantry and 70' S of Michigan St.	EM Conductivity and Natural Gamma Logs
SEC TWP RGE	

PERMANENT DATUM	N/A	ELEVATION	714.42'	K.B.	N/A
LOG MEAS. FROM	TOC	ABOVE PERM. DATUM		D.F.	N/A
DRILLING MEAS. FROM	Ground Surface			G.L.	N/A

DATE	08/25/11	TYPE FLUID IN HOLE	Water
RUN No		SALINITY	N/A
TYPE LOG	Conductivity, Gamma	DENSITY	N/A
DEPTH-DRILLER	NA	LEVEL	N/A
DEPTH-LOGGER	NA	MAX. REC. TEMP.	N/A
BTM LOGGED INTERVAL	36.2' from TOC	SEAL NUMBER	NA
TOP LOGGED INTERVAL	3.94' from TOC		
OPERATING RIG TIME	N/A		
RECORDED BY	Gabriel Hebert		
WITNESSED BY	Pilar Cuadra		

RUN	BOREHOLE RECORD			CASING RECORD			
NO.	BIT	FROM	TO	SIZE	WGT.	FROM	TO



110 South Downey Avenue
Indianapolis, Indiana 46219
317-630-9060, fax 317-630-9065
www.MundellAssociates.com

PROJECT NAME: Michigan Meadows Apts.
PROJECT NUMBER: M01046

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CO Mundell and Associates
WELL MMW-P-12D
LOC 50' N of the Village Pantry
CTY Indianapolis
STE Indiana
PROJECT NO. M01046

COMPANY Mundell and Associates
WELL ID MMW-P-12D
CITY Indianapolis
STATE Indiana COUNTRY U.S.A.

LOCATION
Approximately 50' N of the Village Pantry and 70' S of Michigan St.

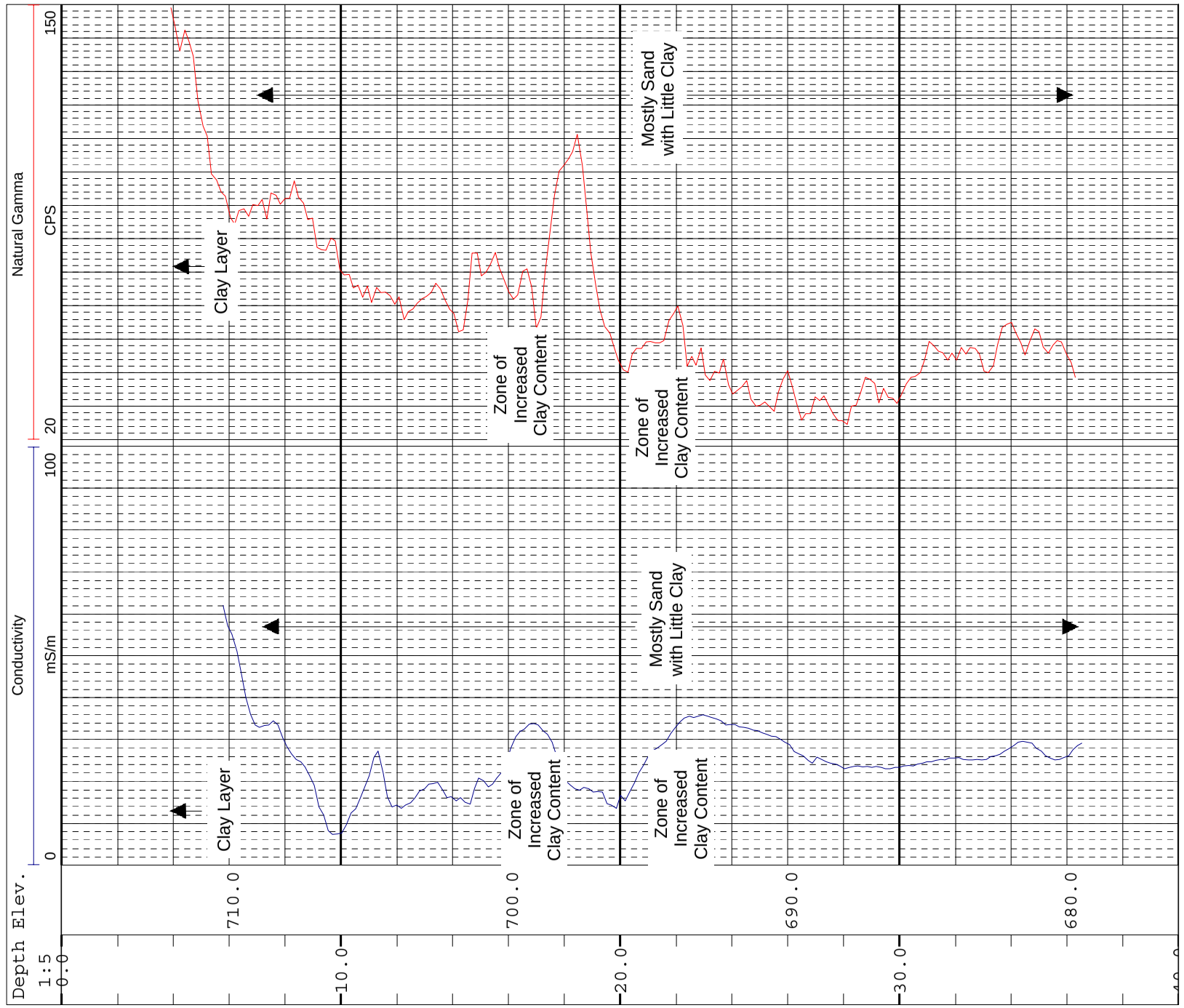
SEC TWP RGE

OTHER SERVICES
EM Conductivity and Natural Gamma Logs

PERMANENT DATUM	N/A		ELEVATION	716.15'	K.B. N/A
LOG MEAS. FROM	TOC		ABOVE PERM. DATUM		D.F. N/A
DRILLING MEAS. FROM	Ground Surface				G.L. N/A

DATE	10/10/11	TYPE FLUID IN HOLE	Water
RUN No		SALINITY	N/A
TYPE LOG	Conductivity, Gamma	DENSITY	N/A
DEPTH-DRILLER	NA	LEVEL	N/A
DEPTH-LOGGER	NA	MAX. REC. TEMP.	N/A
BTM LOGGED INTERVAL	36.3' from TOC	SEAL NUMBER	NA
TOP LOGGED INTERVAL	3.94' from TOC		
OPERATING RIG TIME	N/A		
RECORDED BY	Gabriel Hebert		
WITNESSED BY	NA		

RUN	BOREHOLE RECORD			CASING RECORD			
NO.	BIT	FROM	TO	SIZE	WGT.	FROM	TO



APPENDIX D

Revised Work Plan for Third Round of CAP 18 ME™ Injections - July 22, 2011

110 South Downey Avenue, Indianapolis, Indiana 46219-6406
Telephone 317-630-9060, Facsimile 317-630-9065
www.MundellAssociates.com

July 22, 2011

Ms. Erin Brittain
Project Manager
Voluntary Remediation Program
Office of Land Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

Re: **Revised Work Plan for Third Round of CAP 18 ME™ Injections**
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana 46222
IDEM Incident # 0000198
IDEM VRP # 6061202
MUNDELL Project No. M01046

Dear Ms. Brittain:

This *Revised Work Plan for the Third Round of CAP18 ME™ Injections* 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 describe upcoming remediation activities at the Site planned for August 2011. The following sections provide detailed discussions regarding the design of this third and final CAP 18 ME™ injection at the Site. Previous CAP 18 ME™ injections were completed at the Site in August 2007 and February 2009.

The trends of tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE) and vinyl chloride in the areas of the chemical ***Source Areas*** (***A, B*** and ***C***) at the Site have indicated that dechlorination of the chemicals is still occurring (refer to the *Quarterly Monitoring Progress Report – 4th Quarter 2010* dated February 16, 2011, for specific data summaries and figures). The locations of ***Source Areas A, B*** and ***C*** are included in this Revised Remediation Work Plan (**Figure 2**).

Based on a review of the analytical data, it is apparent that complete dechlorination of all of the source PCE has not occurred in ***Source Areas A, B*** and ***C***, as shown in the concentration trends observed in monitoring wells MMW-P-02 and MMW-P-03S (***Source Area A***), MMW-8S

(***Source Area B***) and MMW-1S, MMW-9S and MMW-10S (***Source Area C***). As such, MUNDELL believes that additional enhanced in-situ biodegradation efforts and the injection of additional CAP 18 ME™ product are recommended.

SENTINEL MONITORING WELL INSTALLATION

The Annual Michigan Plaza Site Status Update meeting was held at IDEM on March 23, 2011. Ms. Erin Brittain, Ms. Sarah Finley-Johanson and Mr. Bill Holland of IDEM, Ms. Sarah Webb and Mr. John Mundell of MUNDELL, and Mr. Peter Cappel of AMMH were in attendance.

At the request of IDEM, MUNDELL will install three nested pairs of monitoring wells to monitor remedial progress and indicator compound generation due to the proposed third CAP 18 ME™ injections in the vicinity of ***Source Areas A, B*** and ***C***. The proposed well locations are shown on **Figure 1**. Prior to well installation, soil borings will be advanced approximately 15 ft into the local till. MUNDELL anticipates the boring will extend to a depth of approximately 50 ft based on previously completed soil investigations in the area. Following soil description and screening at the soil boring locations, nested well sets consisting of one shallow and one deep monitoring well will be installed at each location.

The deep monitoring wells, **P-MMW-P-11D, P-MMW-P-12D** and **P-MMW-P-13D** will be installed at the base of the aquifer unit. The 10 foot screened interval will extend to the aquifer/till interface. This location will monitor conditions in the deep aquifer interval. The shallow monitoring wells, **P-MMW-P-11S, P-MMW-P-12S** and **P-MMW-P-13S** will be installed adjacent to **P-MMW-P-11D, P-MMW-P-12D** and **P-MMW-P-13D** respectively, and utilize a 10 foot screen located within the appropriate depth interval to monitor the upper saturated zone of the aquifer for remedial response and daughter product generation. Previous shallow monitoring well installations in the vicinity have ranged in depth from approximately 28 ft to 30 ft. MUNDELL expects these installations to occur at a similar depth range.

All permanent monitoring wells will be constructed of 2-inch diameter, flush joint, threaded Schedule 40 PVC materials. The monitoring wells will consist of 0.010-inch machine-slotted PVC screens, and the shallow monitoring wells (**P-MMW-P-11S, P-MMW-P-12S** and **P-MMW-P-13S**) will be set at or within 2 to 4 feet above the groundwater surface. A sand filter pack, consisting of No. 5 sand, will be installed around the bottom of each screen to a height approximately 2 to 3 feet above the top of the screen. Ten foot PVC screens will be installed in the construction of all monitoring wells. The monitoring wells will be backfilled with bentonite to 1 foot bgs. Flush-mounted, bolt-down steel manhole covers set in place with concrete pads will provide protection and stability to the wells. Watertight well caps will be fitted to each monitoring well to prevent the infiltration of surface water.

All soil cuttings generated during the drilling of the permanent monitoring wells and groundwater pumped out of the wells during well development will be placed in 55-gallon drums

located at the Site for later disposal. In accordance with IDEM guidelines, the contents in each drum will be identified with a label describing them as non-hazardous materials.

These monitoring wells will be incorporated in the quarterly monitoring network starting the third quarter 2011, and the data will be presented in future reports.

CAP 18 ME™ BIOREMEDIATION DESIGN AND IMPLEMENTATION

CAP 18 ME™ Design

The amount and distribution of CAP 18 ME™ needed for each ***Source Area*** was designed taking several factors into account as well as the practical experience of the manufacturers of CAP 18 ME™, the Carus Corporation (Carus). The amount of CAP 18 ME™ to inject into the chemical ***Source Areas*** was calculated using the *CAP 18™ and CAP 18 ME™ Anaerobic Bioremediation Products Design Software* provided by Carus. This software takes into account the treatment area volume (based on plume size) and the soil characteristics (type, bulk density, fraction of organic carbon, total and effective porosity, hydraulic gradient and conductivity). The spreadsheet then calculates the dissolved and sorbed contaminant demand, as well as the background demand from geochemical parameters (i.e., the site levels of dissolved oxygen, nitrate, manganese, iron, sulfate and hardness). These parameters then factor into the stoichiometric demand for hydrogen, and the corresponding amount of CAP 18 ME™ needed for a particular treatment area. Microbial degradation and design contingency factors of safety are considered as well in the calculations. For this site, a factor of safety of 5.3 was selected to allow for degradation and design uncertainties. Spreadsheet assumptions for the calculation of demand for CAP 18 ME™ for each ***Source Area*** are shown in **Table 1**. Computations estimated that approximately 1,700 lbs, 2,000 lbs and 5,700 lbs of CAP 18 ME™ were needed for ***Source Areas A, B*** and ***C***, respectively, based on the cumulative indicator compound concentrations and geochemistry parameters obtained from January 2010 to January 2011.

Several iterations of CAP 18 ME™ injection distribution were evaluated using the *Bioremediation Products Design Software* and considering Site physical features. The first consideration was to determine what type of application would best fit the remaining plume's size and distribution in each ***Source Area*** given the geology, geochemistry and indicator compounds. The saturated zone within each ***Source Area*** has a poorly-graded, medium sand (SP) underlain by a well-graded, gravelly sand (SW). MUNDELL's experience with CAP 18 ME™ in sands at the Michigan Plaza Site confirms that fatty acids that get broken down through beta-oxidation can travel distances as great as 75 ft to 100 ft from the place of injection, thereby allowing "treatment" to continue downgradient as the fatty acids migrate and continue to lend hydrogen atoms for reductive dechlorination. Given this geologic advantage and the plumes being situated as they are in relation to Michigan Street and the Plaza building, it was determined that a 'treatment curtain' design distribution would be effective.

The injection spacing for the selected design is largely determined by the aquifer's ability to receive the product. An injection spacing of 10 ft to 15 ft on centers is considered very effective

for the sands encountered at the Site. Curtain 'rows' stacked three deep are planned for ***Source Area C***, two rows are planned for ***Source Area B***, while a single-row curtain design will be implemented in ***Source Area A***. Curtain areas are generally oriented perpendicular to either the plume or parallel with building walls that control injection accessibility. Additional injection locations are aligned along sewer locations where impacts were previously noted in the vicinity of ***Source Areas A, B*** and ***C***. All planned injection locations are presented on **Figure 2**. This configuration was designed to provide the most thorough coverage per ***Source Area***. After the number of points was established per ***Source Area***, the total oil demand for each ***Source Area*** was divided by the number of points.

Based on previous CAP 18 ME™ injection events at the Site performed in August 2007 and February 2009, several design factors have been implemented. This design accounted for injecting the CAP 18 ME™ conservatively throughout a 12 foot thickness in the upper saturated zone at each injection point in ***Source Area A***, and throughout a 20 foot thickness in the upper saturated zone at each injection point in ***Source Areas B*** and ***C***. These injection thicknesses allow for introduction of the product throughout the sand and gravel aquifer down into the top of the underlying silty clay glacial till, which acts as a barrier to further vertical groundwater movement.

Introduction of the CAP 18 ME™ into the aquifer at 3-foot depth intervals has proven to be the most effective injection strategy during the previous two injection events. In addition, injection of twice as much product into the upper 10 ft of the saturated zone as compared to greater depths places the product in the most impacted zone of the aquifer that is the result of previous releases from the former Accent cleaners.

Health and Safety

MUNDELL will prepare a Health and Safety Plan to ensure that activities for remediation will be conducted with industry standard safety measures, and that the surrounding public would not be threatened by any of the activities the occurred.

MUNDELL will contact Indiana Plant Protection Service (IUPPS) for utility locates in the specific areas being drilled. As a supplement to this utility locate, MUNDELL will also utilize its own geophysics department to provide more in depth locates of utilities and obstructions. Locations will be adjusted based upon the results of these utility investigations as needed.

CAP 18 ME™ Injection Application

CAP 18 ME™ injection remediation activities are anticipated to begin in August 2011. CAP 18 ME™ will be injected into each injection point using the following protocol:

1) At each injection point, the geoprobe will direct push the drill rods down to the bottom depth, as determined by the depth of the lower clay till layer.

2) The total poundage of CAP 18 ME™ loading designed per boring and a conversion of 7.7 pounds per gallon will be used to estimate the amount of gallons required. From this amount, the estimated amount of 3-foot lifts will be calculated, with the bottom lift being just into the clay till, and the top lift being anywhere from 1 to 3 feet above the observed water table (to account for seasonal fluctuations).
3) Calculated volumes of CAP 18 ME™ will be pumped from the 55-gallon drums using a geoprobe grout system, through tubing sealed and connected to the tooling rods down into the bottom of the drill rods, where it is slowly injected under pressure into the formation at the 3-foot lift intervals and loading requirements established above. At completion, each boring will be filled with granular bentonite and capped with either topsoil if in grassy areas, or asphalt patch in the parking areas.
4) greater depths allow for product placement in the most impacted zone of the aquifer.

Table 2 is provided which shows the summary of planned injection quantities for each injection point, and each ***Source Area***. Approximately 1,700 lbs, 2,000 lbs and 5,700 lbs of CAP 18 ME™ are the expected injection masses for ***Source Areas A, B*** and ***C***, respectively.

Vapor Intrusion Assessment

MUNDELL will conduct a baseline sampling event at the residence located immediately west of the Plaza property (3817 West Michigan Street) to determine if elevated levels of volatile organic compounds (VOCs) exist in the ambient air outside of the residence, or the indoor air of the crawl space or living room. Three samples will be collected from the home including ambient outdoor air (**P-AA-1**), crawl space air (**P-CS-1**) and living room air (**P-IA-1**). These proposed sampling locations are included on **Figure 1**.

The ambient air sample will be collected from the residence exterior within the breathing zone. Each of the indoor air and crawl space air samples will be collected from as close to the center of the room or building footprint, respectively, while avoiding areas where sampling would interfere with daily building use. During sampling activities, MUNDELL will document any odors, cleaning supplies, paint cans or any other conditions that could potentially affect the sampling results. Each ambient and indoor air sample will be collected in a 6-liter, inert, stainless-steel Summa canister over a 24-hour period with the pressure and flow rate in each canister being controlled with a pressure regulator. The samples will be delivered overnight to Pace Analytical Services of Minneapolis, Minnesota, and analyzed for U.S. Environmental Protection Agency Method TO-15 for VOCs.

MUNDELL is in the process of obtaining access to the residence located at 3817 West Michigan Street to complete this vapor intrusion assessment. Once access is obtained from the property owner and work plan approval is received from IDEM, MUNDELL will move forward with the proposed activities immediately. MUNDELL will notify IDEM of all planned Site activities as they are scheduled.

We appreciate the opportunity to update IDEM on the upcoming remedial activities planned 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; swebb@MundellAssociates.com).

Sincerely,

MUNDELL & ASSOCIATES, INC.

Sarah E. Webb, L.P.G.
Project Hydrogeologist

John A. Mundell, P.E., L.P.G.
President/Senior Environmental Consultant

Attachments: Tables
Figures

cc: Mr. Peter Cappel, AMMH

TABLES

Table 1 CAP 18™ and CAP 18 ME™ Anaerobic Bioremediation Products Design Software Input Parameters and Estimation Methodology

Table 2 Proposed CAP 18 ME™ Injection Locations Including Anticipated Injection Amounts

FIGURES

Figure 1 Proposed Monitoring Well and Vapor Intrusion Monitoring Locations

Figure 2 Proposed CAP 18 ME™ Injection Locations

TABLES

TABLE 1

CAP 18™ and CAP 18 ME™ Anaerobic Bioremediation Products Design Software

Input Parameters and Estimation Methodology

Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No. M01046

SOURCE AREA A

Treatment Area Volume		ESTIMATION METHOD
Curtain Length	40 feet	Based upon remaining chlorinated solvent impacts as indicated by Quarterly monitoring activities.
Thickness of Treatment Zone	12 feet	Saturated interval thickness in Source Area A
Well Spacing	10 feet	An injection spacing of 10 - 15 ft on centers is considered very effective for sandy saturated units, as encountered at the Site during previous soil investigations.
Treatment Area Characteristics		
Nominal Soil Type	SAND	Based upon field conditions observed during previous soil investigations.
Total Porosity	0.38	Default Values
Effective Porosity	0.29	
Hydraulic Conductivity	28.5 ft/d	
Hydraulic Gradient	0.003975 ft/ft	Calculated using the average hydraulic gradient from Quarters 1-4, 2010. The hydraulic gradient was calculated for each Quarter, then averaged across the four Quarters.
CAP-18 Lifespan	2 years	Based upon the estimated CAP 18 ME™ lifetimes observed following the 2007 and 2009 injection events.
Dissolved Contaminant Demand		
PCE	0.0133 mg/L	Averaged MMW-P-02 groundwater concentrations from Quarters 1-4 ,2010, and Quarter 1, 2011.
TCE	0.00536 mg/L	
DCE	0.0659 mg/L	Averaged MMW-1S groundwater concentrations from Quarters 1-4 ,2010, and Quarter 1, 2011.
VC	0.173 mg/L	
Background Demand		
Oxygen	0.872 mg/L	Averaged low flow sampling parameters as measured during Quarters 1-4 ,2010, and Quarter 1, 2011. (Wells included: MMW-P-05, MMW-P-06, MMW-P-04, MMW-P-03S, MMW-P-03D, MMW-P-02 and MMW-C-02) (Wells included: MMW-1S, MMW-8S, MMW-9S, MMW-10S, MMW-11S and MMW-12S)
Nitrate	0.14 mg/L	Averaged groundwater concentrations collected Quarter 1, 2011. (Wells included: MMW-C-02)
Manganese	2.0 mg/L	Default Value
Iron	5.25 mg/L	Averaged groundwater concentrations from Quarter 2, 2008. (Wells included: MMW-P-05, MMW-P-06, MMW-P-04, MMW-P-03S, MMW-P-03D and MMW-P-02)
Sulfate	40.3 mg/L	Averaged groundwater concentrations from Quarters 1-4 ,2010, and Quarter 1, 2011. (Wells included: MMW-P-06, MMW-P-03S, MMW-P-03D and MMW-C-02)
Hardness	496.8 mg/L	Averaged groundwater concentrations from Quarters 1-4 ,2010. (Wells included: MMW-P-03S)

TABLE 1

CAP 18™ and CAP 18 ME™ Anaerobic Bioremediation Products Design Software

Input Parameters and Estimation Methodology

Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No. M01046

SOURCE AREA B

Treatment Area Volume		**ESTIMATION METHOD**
Curtain Length	20 feet	Based upon remaining chlorinated solvent impacts as indicated by Quarterly monitoring activities.
Thickness of Treatment Zone	18 feet	Saturated interval thickness in Source Area C
Well Spacing	10 feet	An injection spacing of 10 - 15 ft on centers is considered very effective for sandy saturated units, as encountered at the Site during previous soil investigations.
Treatment Area Characteristics		
Nominal Soil Type	SAND	Based upon field conditions observed during previous soil investigations.
Total Porosity	0.38	Default Values
Effective Porosity	0.29	
Hydraulic Conductivity	28.5 ft/d	
Hydraulic Gradient	0.003975 ft/ft	Calculated using the average hydraulic gradient from Quarters 1-4, 2010. The hydraulic gradient was calculated for each Quarter, then averaged across the four Quarters.
CAP-18 Lifespan	2 years	Based upon the estimated CAP 18 ME™ lifetimes observed following the 2007 and 2009 injection events.
Dissolved Contaminant Demand		
PCE	0.0832 mg/L	Averaged MMW-8S groundwater concentrations from Quarters 1-4 ,2010, and Quarter 1, 2011.
TCE	0.005 mg/L	
DCE	0.0992 mg/L	
VC	0.1894 mg/L	
Background Demand		
Oxygen	1.88 mg/L	Averaged low flow sampling parameters as measured during Quarters 1-4 ,2010, and Quarter 1, 2011. (Wells included: MMW-8S and MMW-P-08)
Nitrate	1.5 mg/L	Averaged groundwater concentrations collected Quarter 1, 2011. (Wells included: MMW-8S and MMW-P-08)
Manganese	2.0 mg/L	Default Value
Iron	3.5 mg/L	Averaged groundwater concentrations from Quarter 2, 2008. (Wells included: MMW-8S and MMW-P-08)
Sulfate	84.8 mg/L	Averaged groundwater concentrations from Quarters 1-4 ,2010, and Quarter 1, 2011. (Wells included: MMW-8S and MMW-P-08)
Hardness	706.2 mg/L	

TABLE 1

CAP 18™ and CAP 18 ME™ Anaerobic Bioremediation Products Design Software

Input Parameters and Estimation Methodology

Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No. M01046

SOURCE AREA C

Treatment Area Volume		**ESTIMATION METHOD**
Curtain Length	48 feet	Based upon remaining chlorinated solvent impacts as indicated by Quarterly monitoring activities.
Thickness of Treatment Zone	20 feet	Saturated interval thickness in Source Area C
Well Spacing	12 feet	An injection spacing of 10 - 15 ft on centers is considered very effective for sandy saturated units, as encountered at the Site during previous soil investigations.
Treatment Area Characteristics		
Nominal Soil Type	SAND	Based upon field conditions observed during previous soil investigations.
Total Porosity	0.38	Default Values
Effective Porosity	0.29	
Hydraulic Conductivity	28.5 ft/d	
Hydraulic Gradient	0.003975 ft/ft	Calculated using the average hydraulic gradient from Quarters 1-4, 2010. The hydraulic gradient was calculated for each Quarter, then averaged across the four Quarters.
CAP-18 Lifespan	2 years	Based upon the estimated CAP 18 ME™ lifetimes observed following the 2007 and 2009 injection events.
Dissolved Contaminant Demand		
PCE	0.2042 mg/L	Averaged MMW-1S groundwater concentrations from Quarters 1-4 ,2010, and Quarter 1, 2011.
TCE	0.0365 mg/L	
DCE	0.0523 mg/L	
VC	0.0199 mg/L	
Background Demand		
Oxygen	2.27 mg/L	Averaged low flow sampling parameters as measured during Quarters 1-4 ,2010, and Quarter 1, 2011. (Wells included: MMW-1S, MMW-8S, MMW-9S, MMW-10S, MMW-11S and MMW-12S)
Nitrate	2.66 mg/L	Averaged groundwater concentrations collected Quarter 1, 2011. (Wells included: MMW-9S and MMW-11S)
Manganese	2.0 mg/L	Default Value
Iron	3.5 mg/L	Averaged groundwater concentrations from Quarter 2, 2008.
Sulfate	108 mg/L	Averaged groundwater concentrations from Quarters 1-4 ,2010, and Quarter 1, 2011. (Wells included: MMW-9S, MMW-P-03S and MMW-P-08)
Hardness	634.1 mg/L	

TABLE 2
Proposed CAP 18 ME™ Injection Locations
Including Anticipated Injection Amounts
July 2011

Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No. M01046

SOURCE AREA A		
Injection Point Identification	**Planned Injection Mass (lbs)**	**Planned Injection Volume (gallons)**
26	283	36.8
27	283	36.8
28	283	36.8
29	283	36.8
30	283	36.8
31	283	36.8
SOURCE AREA C: TOTAL INJECTION AMOUNTS	1,700	220.8
SOURCE AREA B		
21	400	51.9
22	400	51.9
23	400	51.9
24	400	51.9
25	400	51.9
SOURCE AREA B: TOTAL INJECTION AMOUNTS	2,000	260
SOURCE AREA C		
Injection Point Identification	**Planned Injection Mass (lbs)**	**Planned Injection Volume (gallons)**
1	285	37.0
2	285	37.0
3	285	37.0
4	285	37.0
5	285	37.0
6	285	37.0
7	285	37.0
8	285	37.0
9	285	37.0
10	285	37.0
11	285	37.0
12	285	37.0
13	285	37.0
14	285	37.0
15	285	37.0
16	285	37.0
17	285	37.0
18	285	37.0
19	285	37.0
20	285	37.0
SOURCE AREA A: TOTAL INJECTION AMOUNTS	5,700	740.3
SITE-WIDE Injection Totals	**9,400**	**1,221**

FIGURES

Michigan Street

P-MMW-P-12S
P-MMW-P-12D

MMW-P-08
MMW-P-07
MMW-P-10S
MMW-P-10D
MMW-P-01
MGW-5

P-IA-1
P-CS-1
P-AA-1

Holt Road

Village Pantry (3801)
La Pulga (3807/3809)
Tire Shop (3811)
Alcoholics Anonymous (3815)
Arca de Salvacion (3819)
Michigan Plaza Family Laundry (3823)

MMW-P-06
MMW-P-05
MMW-P-02
MMW-P-04

MW170S
MW170D

P-MMW-P-13S
P-MMW-P-13D

P-MMW-P-11S
P-MMW-P-11D

MMW-C-01

MMW-P-03S
MMW-P-03D

Floral Park Cemetery

Cossell Road

LEGEND

P-MMW-P-01	Proposed Monitoring Wells (July 2011)
P-AA-1	Proposed Vapor Intrusion Monitoring Points (July 2011)
MW160	Keramida/Environ Monitoring Wells
MMW-P-06	MUNDELL Monitoring Wells, Michigan Plaza (September 2005)
MMW-P-07	MUNDELL Monitoring Wells (January 2007)
MMW-P-09D	MUNDELL Monitoring Wells (May-June 2007)
MMW-C-01	MUNDELL Monitoring Wells (July/August 2008)
MMW-11S	MUNDELL Monitoring Wells (November/December 2008)
MGW-1	MUNDELL Soil Gas Well

NORTH

SCALE
0 100
feet

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

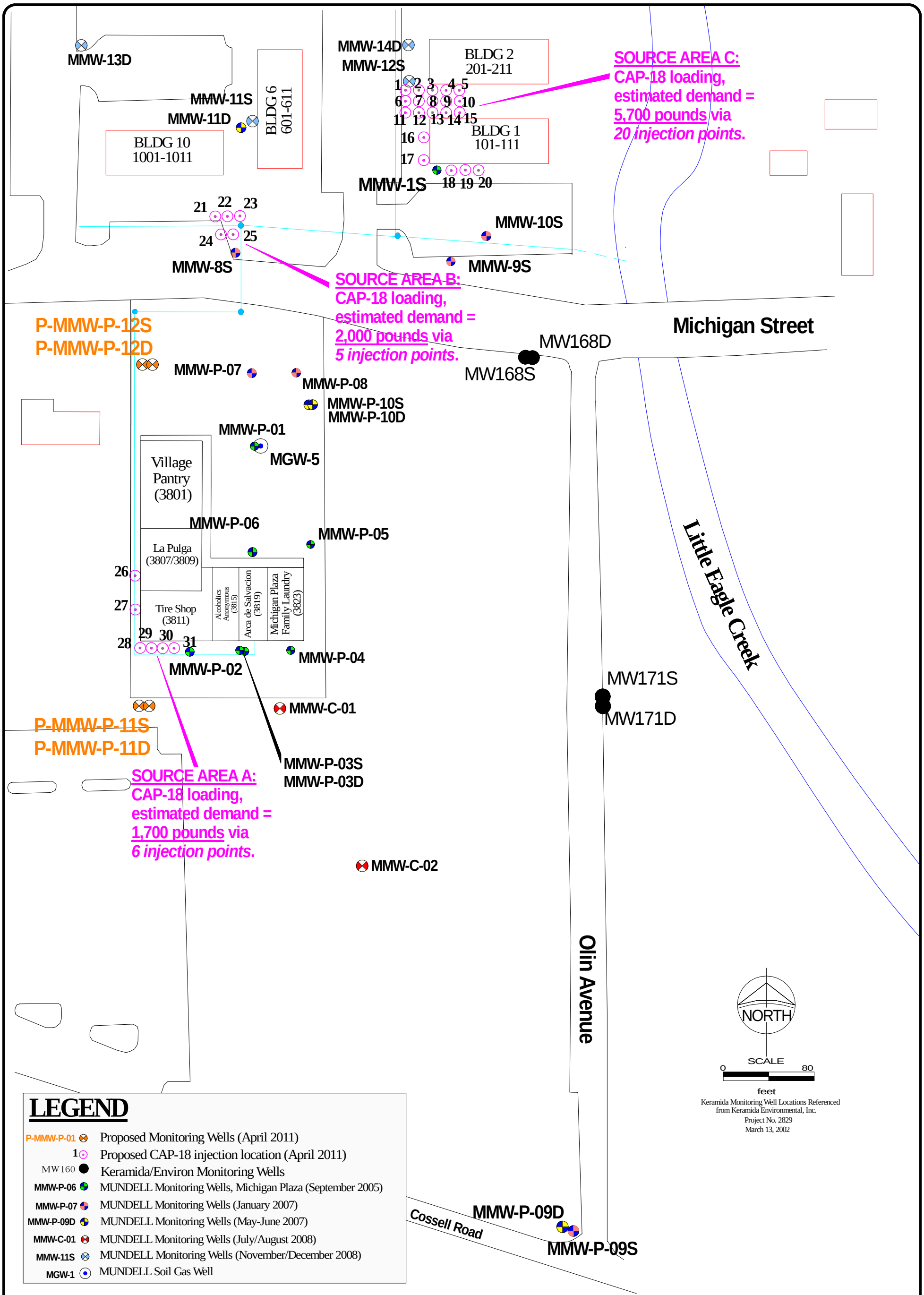
Mundell
Consulting Professionals for the Earth and the Environment
110 South Downey Avenue
Indianapolis, Indiana 46219-6406
317-630-9060, fax 317-630-9065

Project Number: M01046
Drawing File: Prp_Wells_VI_Pts.skf
Date Prepared: 07/21/2011
Scale: 1"=80'

Proposed Monitoring Well and Vapor Intrusion Monitoring Locations July 2011

Michigan Plaza
3801 - 3823 West Michigan Steet
Indianapolis, Indiana

FIGURE
1



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Project Number:	M01046
Drawing File:	Inj_Pts_Rd3.skf
Date Prepared:	07/21/2011
Scale:	1"=80'

Proposed CAP 18 ME™ Injection Locations July 2011

Michigan Plaza
3801 - 3823 West Michigan Steet
Indianapolis, Indiana

FIGURE
2