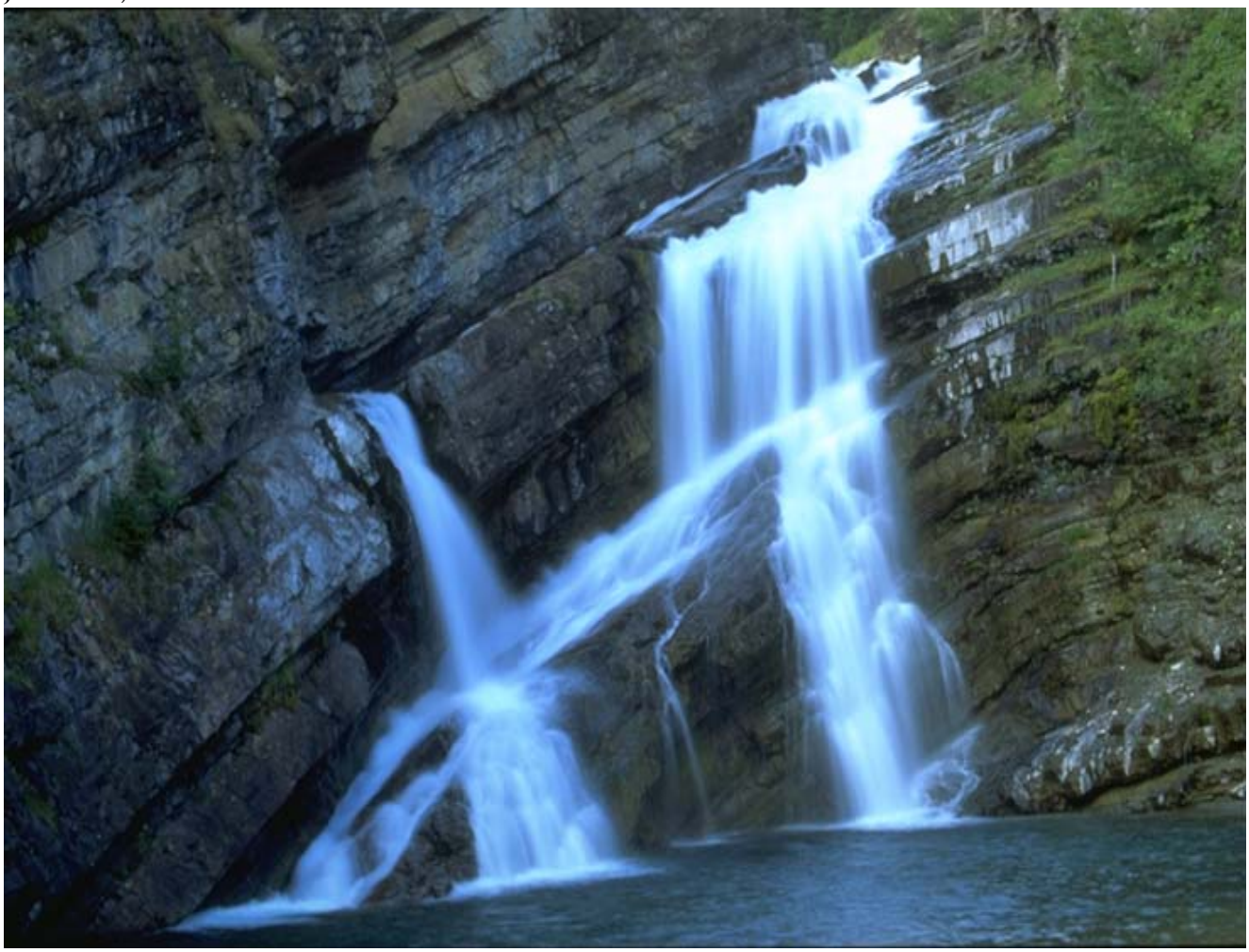
QUARTERLY MONITORING PROGRESS REPORT, 1ST QUARTER, 2012

MICHIGAN PLAZA
3801-3823 WEST MICHIGAN STREET
INDIANAPOLIS, INDIANA 46222
IDEM INCIDENT NO.: 0000198
IDEM VRP NO.: 6061202
MUNDELL PROJECT NO.: M01046
JUNE 12, 2012



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June 12, 2012

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

Re: **Quarterly Monitoring Progress Report – 1st Quarter 2012**
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana 46222
IDEM Incident # 0000198
IDEM VRP # 6061202
MUNDELL Project No. M01046

Dear Mr. Webb:

This *Quarterly Monitoring Progress Report* is being submitted to the Indiana Department of Environmental Management (IDEM) by MUNDELL & ASSOCIATES, INC. (MUNDELL), on behalf of AIMCO Michigan Meadows Holdings, LLC (AMMH), to summarize remediation activities and quarterly monitoring performed from January 1 through March 31, 2012. The following sections provide detailed discussions of the results of this work. All activities were completed on schedule.

GROUNDWATER MONITORING NETWORK SAMPLING

Between February 13 and 17, 2012, quarterly groundwater sampling of twenty-eight (28) MUNDELL monitoring wells on the Michigan Plaza and Michigan Meadows Apartments properties, nine (9) additional MUNDELL monitoring wells on the Floral Park Cemetery property, and four (4) ENVIRON monitoring wells was completed. The following constitute this quarterly groundwater monitoring network:

MUNDELL monitoring wells (37 total):

Michigan Plaza and Vicinity (15):

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

Michigan Meadows Apartment Complex (13):

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

Floral Park Cemetery (9):

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

ENVIRON monitoring wells (4):

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

MUNDELL also measured static groundwater elevations via an electric oil/water interface probe from the above listed monitoring well network on January 18, 2012. Additional wells gauged during this sampling event consist of:

Michigan Meadows Apartment Complex:

MMW-2S, MMW-3S, MMW-5D, and MMW-7S.

ENVIRON monitoring wells:

MW-166S, MW-166D, MW-168S, MW-169S, MW-169D, MW-171S, MW-171D, MW-174S, MW-174D, MW-175S, and MW-175D.

U.S. EPA monitoring wells:

MW-WES-01a, MW-WES-01b, MW-WES-01c, MW-WES-02a, MW-WES-02b, MW-WES-03a, MW-WES-03b, MW-WES-04a, MW-WES-04b, MW-WES-05a, MW-WES-05b, and MW-WES-05c.

Little Eagle Creek Stream gauge Locations:

SG-1.

Monitoring well gauging, survey and construction data are provided in **Table 1.** A site map depicting monitoring well locations is provided as **Figure 1**, and separate potentiometric surface

maps for wells screened within the shallow portion and deeper portion of the upper sand and gravel aquifer are depicted on **Figure 2**, and **Figure 3,** respectively.

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

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

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

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

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

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

GROUNDWATER ANALYTICAL RESULTS

Groundwater analytical testing results for this quarter are summarized in **Table 2** and presented on **Figure 4** (shallower portion of aquifer) and **Figure 5** (deeper portion of aquifer), the cumulative historic groundwater results are included in **Table 3**, and the cumulative groundwater analytical data for enhanced anaerobic bioremediation are included in **Table 4.** The historical indicator compounds trends in groundwater are presented in **Figure 6.** A summary of exceedances within the shallow monitoring well network and deep monitoring well network follows.

Shallow Monitoring Well Network Summary

PCE

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

Michigan Meadows Apartment Complex: MMW-1S.

Floral Park Cemetery: MMW-P-11S.

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

Michigan Meadows Apartment Complex: MMW-10S.

Michigan Plaza and Vicinity: MMW-P-01.

Floral Park Cemetery: MMW-C-01.

TCE

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

Michigan Meadows Apartment Complex: MMW-1S and MW-10S.

Cis-1,2 DCE

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

Michigan Meadows Apartment Complex: MMW-9S.

Michigan Plaza and Vicinity: MMW-P-06.

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

Michigan Meadows Apartment Complex: MMW-10S.

Michigan Plaza and Vicinity: MMW-P-01, MMW-P-02, and MMW-P-12S.

VC

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

Michigan Meadows Apartment Complex: MMW-1S, MMW-8S, MMW-9S, and MMW-10S

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

Floral Park Cemetery: MMW-C-01.

VC concentrations were reported in exceedance of the IDEM RISC RDCL in the following monitoring wells:

Floral Park Cemetery: MMW-P-11S.

Deep Monitoring Well Network Summary

PCE

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

TCE

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

Cis-1,2 DCE

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

Michigan Meadows Apartment Complex: MMW-14D.

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

Michigan Meadows Apartment Complex: MMW-4D, MMW-11D, and MMW-13D.

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

ENVIRON monitoring wells: MW-167D.

VC

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

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

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

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

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

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

The locations of all three ***Chemical Source Areas*** are presented on **Figure 1**. As seen on **Figure 4**, the indicator compound concentrations at MMW-4D, MMW-11D, MMW-13D and MMW-14D can be considered as "background levels" defined as the concentration of contaminants from the Genuine source coming into the deeper aquifer in this area. These indicator compound levels aid in discerning between the Michigan Plaza source impacts and the Genuine Site impacts, and will ultimately be used to evaluate the target cleanup levels for the deeper portion of the surficial aquifer at the Site.

IN-SITU BIOREMEDIATION PROGRESS

Based upon:

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

- in-situ bioremediation with CAP 18™ and CAP 18 ME™, followed by Monitored Natural Attenuation (MNA), is the selected remediation technology for the Site for treating groundwater, as detailed in the *RWP*. The initial CAP 18™ injection was performed in each of the three source areas in August 2007 using a direct push Geoprobe system. Locations and spacing of the injection points were designed to address the sewer line related ***Chemical Source Areas*** and provide injection locations in each ***Chemical Source Area***. The anticipated downgradient migration of the initial CAP 18 ME™ was expected to remediate the most significant groundwater impacts.

A booster CAP 18 ME™ injection was performed in February 2009 to aggressively treat some areas where the chemical concentrations began to stabilize or were decreasing at a slow rate. During this quarter, no additional CAP 18 ME™ injections have been performed. A *Revised Work Plan for Third Round of CAP 18 ME™ Injections* dated July 22, 2011, was approved by IDEM on August 22, 2011. Subsequent to the submittal of the report, however, data collected with the additional delineation in the area in late 2012 identified additional pockets of source material adjacent to these source areas, therefore requiring the footprint of injection to be expanded. On May 2, 2012, MUNDELL submitted a *Revised Work Plan for Third Round of CAP 18 ME™ Injections* to IDEM for review and re-approval. IDEM advised MUNDELL by email dated May 21, 2012 that it should hold off implementing any additional CAP 18 *ME™ Injections* pending approval from IDEM. It is expected that this 3rd injection event will proceed within one month of IDEM approval.

Indicator Chemical Trends

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

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

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

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

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

Source Area A

PCE

PCE was not detected above the laboratory reporting limit in indicator wells MMW-P-02, MMW-P-03S, MW-P-03D and MMW-P-04 located near ***Source Area A***. One monitoring well (MMW-C-01) exhibited a PCE concentration exceeding the RDCL, but below the IDCL. A review of data associated with well cluster MMW-P-11S and MMW-P-11DR, which will be added as an indicator well set to ***Source Area A***, shows that PCE concentrations in excess of the RISC IDCL are present southwest of the strip mall property. To the south and southeast of the source

area, PCE concentrations have declined steadily since the initial August 2007 CAP 18™ injections and the following February 2009 CAP 18 ME™ injections. However, the PCE concentration at MMW-C-01 persists in excess of the RDCL.

TCE

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

Cis-1,2-DCE

Cis-1,2-DCE concentrations increased in the shallow saturated zone immediately downgradient of ***Source Area A*** at MMW-P-02, MMW-P-03S, and MMW-C-01, while concentrations decreased in MMW-P-04. It was not detected in the deeper portion of the aquifer (in MMW-P-03D).

VC

During the 1st quarter 2012 event, VC concentrations increased in ***Source Area A*** shallow indicator well MMW-P-02, suggestive of continued dechlorination at this location. However, VC levels have decreased in MMW-P-03S, MMW-P-04, and MMW-C-01, while PCE and cis-1,2-DCE still persist. Taken as a whole, generation of both cis-1,2-DCE and vinyl chloride as byproducts of PCE reductive de-chlorination appears to have slowed near ***Source Area A*** over the last several quarters.

Source Area B

PCE

PCE concentrations remain at levels above the RISC IDCL in the vicinity of MMW-P-01, located immediately downgradient of sewer line source areas identified during soil investigation activities completed during 2005. While not detected in MMW-P-06, the non-detect reporting limit for PCE was elevated in this well. A dilution of the sample was required due to the elevated levels of cis-1,2-DCE and VC present in the sample. The dilution resulted in an elevated PCE reporting limit of 50 ug/L.

TCE

While not detected during the first quarter 2012 event, TCE has historically been detected above the RDCL or IDCL at MMW-P-01. While not detected in MMW-P-06, the non-detect reporting limit for TCE is also noted to be elevated in this well during the sampling event. As referenced above, a dilution of the sample was required due to the elevated levels of cis-1,2-DCE and VC present in the sample. The dilution resulted in an elevated TCE reporting limit of 50 ug/L.

Cis-1,2-DCE

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

VC

Elevated VC levels in excess of the RISC IDCL are identified in each indicator well, with the exception of MMW-P-10S. Increasing trends are noted in MMW-P-01 and MMW-P-05. Elevated cis-1,2-DCE levels in excess of the RISC RDCL are identified in MMW-P-01 and the MMW-P-12S/D well pair.

Indicator compound concentration trends in the vicinity of ***Source Area B*** indicate that reductive dechlorination processes continue to consume PCE while generating daughter products in the saturated zone. In addition, further daughter product breakdown and vinyl chloride generation continues in select downgradient wells as expected.

Source Area C

PCE

PCE concentrations increased in indicator well MMW-1S and MMW-10S and remain above the IDCLs and RDCLs, respectively. PCE was not detected at MMW-9S during the 1st quarter, 2012 (at an elevated reporting limit). Monitoring well locations near ***Source Area C*** continue to indicate downgradient migration of CAP 18 ME™ and slowing of previously inferred reductive dechlorination processes.

TCE

The TCE concentration at MMW-1S and MMW-10S exceeded the RISC RDCL during the 1st quarter, 2012 event. TCE was not detected (above an elevated reporting limit) in MMW-9S.

Cis-1,2-DCE

Cis-1,2-DCE were reported at concentrations above the IDCL in MMW-9S and above the RDCL in MMW-10S, results that follow recent historic trends in the wells. It was not detected above the laboratory reporting limit in MMW-1S, showing a decrease in concentration relative to the 4th quarter 2011 IDCL exceedance.

VC

Rates of VC generation as byproducts of enhanced reductive dechlorination appear to have slowed in ***Source Area C***. VC concentrations at ***Source Area C*** indicator well locations MMW-9S and MMW-10S remain above the IDCLs.

The remaining PCE and TCE concentrations observed near ***Source Area C***, and the decreasing rates of daughter product generation observed in the vicinity during 2011 and early 2012 indicate the need for a third CAP 18 ME™ injection event. A modified May 2012 injection plan has been submitted under separate cover for IDEM review. It will be completed within one month of IDEM approval.

In conclusion, because reductive dechlorination processes appear to have slowed over the last several quarters, as evidenced by slightly rebounding PCE and TCE concentrations and reduced generation of breakdown products (cis-1,2-DCE and vinyl chlorideMUNDELL has proposed additional CAP 18 ME™ injections in selected locations in ***Source Areas A, B*** and ***C***. MUNDELL has recently submitted a revised May 2012 injection plan that adds a few more injection locations. Upon approval by IDEM, MUNDELL will proceed with the third CAP 18 ME™ injection event at the Site. The cumulative groundwater analytical data for enhanced anaerobic bioremediation are included in **Table 4.** Groundwater analytical results are attached in **Appendix A**.

INDOOR AIR MITIGATION SYSTEMS PERFORMANCE

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

Unit/blowers were installed in the following spaces at Michigan Plaza: 1) the Village Pantry (B1); 2) the former Tire Shop space (B2); 3) the Arca de Salvacion (B3); and 4) the laundromat (Michigan Plaza Family Laundry) (B4). The systems installed at the Michigan Apartments are: Building No. 1, Basement Apartment 101 (B5); Building No. 6, Basement Apartment 602 (B6); and Building No. 10, Basement Apartment 1001 (B7). The system locations are illustrated on **Figure 8**.

Since the time of installation, system stack air samples were collected weekly during October 2006, followed by bi-weekly sampling during November and December 2006, monthly throughout 4th quarter, 2006, and then on a quarterly basis thereafter. PID readings have also been concurrently measured in each of the stacks. The historical PCE concentration trends and cumulative pounds of PCE and total contaminants removed by each of the systems (B1 through B7) are summarized in **Figures 9** through **17.**

As of the end of the 1st quarter of 2012, approximately 20.83 *pounds* of total chlorinated solvents, including *16.17 pounds* of PCE, have been removed at the *Michigan Apartments property* (sub slab depressurization systems B5, B6 and B7); and approximately *102.23 pounds* of total chlorinated solvents, including *93.85 pounds* of PCE, have been removed at the *Michigan Plaza property* (sub slab depressurization systems B1, B2, B3 and B4). These totals include minor revisions to previous O&M calculations, resulting in total estimates of pollutants removed being shifted slightly downward. The associated calculations are provided in

Appendix B. A concentration of half the PQL (practical quantitation limit) is assumed for the indicator compounds demonstrating concentrations below the laboratory PQL, with the exception of vinyl chloride where an average concentration of 0.015 parts per million vapor (PPMV) (derived from the J flag values for vinyl chloride concentrations below PQL) is used for calculation purposes.

Overall, decreases in PCE concentrations have been noted in all mitigation systems going back to at least May 2009. Air mitigation systems B4 and B7 were non-detect for PCE concentrations in vapor during the 1st quarter, 2012, sampling event. PCE concentrations in mitigation systems B1, B2, B3, B4, and B6 have decreased by up to an order of magnitude since air monitoring was initiated for each respective system. Air mitigation system B5 has also shown generally declining PCE concentrations, with reduction of PCE concentrations by nearly 600 ug/m^3 since air monitoring was initiated.

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

Sincerely,
Mundell and Associates, Inc.

Mark E. Breting

Mark E. Breting, L.P.G.
Senior Project Geologist

John A. Mundell, P.E., L.P.G.
President/Senior Environmental Consultant

Attachments: Tables
Figures
Appendices

cc: Mr. Peter Cappel, AMMH

TABLES

Table 1 Groundwater Level Measurements

Table 2 Monitoring Well Groundwater Analytical Results

Table 3 Cumulative Monitoring Well Groundwater Analytical Results

Table 4 Cumulative Groundwater Analytical Data for Enhanced Anaerobic Bioremediation

Table 1
Tabulated Water Level Measurements and Monitoring Well Construction Data
Quarter 1 - 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	-	28	18.59	696.67
MMW-P-02	1/18/2012	716.09	30	20	-	30	19.58	696.51
MMW-P-03S	1/18/2012	715.95	28	18	-	28	19.47	696.48
MMW-P-03D	1/18/2012	716.02	35	25	-	35	19.47	696.55
MMW-P-04	1/18/2012	716.04	28	18	-	28	19.36	696.68
MMW-P-05	1/18/2012	715.55	28	18	-	28	18.95	696.60
MMW-P-06	1/18/2012	716.14	28	18	-	28	19.52	696.62
MMW-P-07	1/18/2012	714.90	28	18	-	28	17.89	697.01
MMW-P-08	1/18/2012	714.53	28	18	-	28	17.51	697.02
MMW-P-09S	1/18/2012	714.80	28	18	-	28	19.36	695.44
MMW-P-09D	1/18/2012	714.82	45	35	-	45	19.27	695.55
MMW-P-10S	1/18/2012	714.35	28	18	-	28	17.15	697.20
MMW-P-10D	1/18/2012	714.42	38	28	-	38	17.52	696.90
MMW-P-12S	1/18/2012	715.83	26	16	-	26	18.36	697.47
MMW-P-12D	1/18/2012	715.33	36.5	31.5	-	36.5	17.77	697.56
Monitoring Wells (Apartments)								
MMW-1S	1/18/2012	712.92	20	10	-	20	15.58	697.34
MMW-2S	1/18/2012	712.95	20	10	-	20	15.32	697.63
MMW-3S	1/18/2012	710.20	30	18	-	28	11.34	698.86
MMW-4D	1/18/2012	711.29	66	56	-	66	12.52	698.77
MMW-5D	1/18/2012	711.27	51	36	-	41	12.46	698.81
MMW-6D	1/18/2012	712.40	51	39	-	49	13.69	698.71
MMW-7S	1/18/2012	712.09	26	12	-	22	13.31	698.78
MMW-8S	1/18/2012	714.24	24	14	-	24	16.60	697.64
MMW-9S	1/18/2012	713.71	25	15	-	25	16.46	697.25
MMW-10S	1/18/2012	712.69	25	15	-	25	15.47	697.22
MMW-11S	1/18/2012	713.17	24	14	-	24	15.73	697.44
MMW-11D	1/18/2012	713.33	33	23	-	33	15.55	697.78
MMW-12S	1/18/2012	712.15	24	14	-	24	14.73	697.42
MMW-13D	1/18/2012	713.28	50	35	-	50	15.56	697.72
MMW-14D	1/18/2012	712.41	50	40	-	50	14.41	698.00
MMW-15S	1/18/2012	713.36	32	22		32	15.60	697.76
MMW-15D	1/18/2012	713.08	39	34		39	15.32	697.76
Floral Park Cemetery Monitoring Wells (Off-Site)								
MMW-C-01	1/18/2012	715.73	28	18	-	28	19.12	696.61
MMW-C-02S	1/18/2012	714.80	28	18	-	28	18.66	696.14
MMW-C-02D	1/18/2012	713.90	36	31		36	17.86	696.04
MMW-P-11S	1/18/2012	716.42	26	16	-	26	19.89	696.53
MMW-P-11DR	1/18/2012	715.63	33	28		33	19.08	696.55
MMW-P-13S	1/18/2012	713.83	26	16	-	26	17.26	696.57
MMW-P-13D	1/18/2012	713.57	33	28		33	17.02	696.55
MMW-P-14S	1/18/2012	714.50	28	18		28	18.16	696.34
MMW-P-14D	1/18/2012	714.76	34	29		34	18.43	696.33

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

Monitoring Well	Date of Water Level	Top of Casing Elevation (feet MSL)	Total Depth (feet)	Screened Interval (feet)			Depth To Water (feet)	Groundwater Elevation (feet MSL)
ENVIRON Monitoring Wells (Off-Site)								
MW-166S	1/18/2012	712.70	20	10		20	14.75	697.95
MW-166D	1/18/2012	712.49	51	46		51	14.45	698.04
MW-167S	1/18/2012	716.07	22	12	-	22	NG	NG
MW-167D	1/18/2012	715.61	33	28	-	33	17.85	697.76
MW-168S	1/18/2012	714.58	22	12	-	22	17.30	697.28
MW-168D	1/18/2012	714.46	31	26	-	31	17.14	697.32
MW-169S	1/18/2012	715.92	25	15	-	25	20.75	695.17
MW-169D	1/18/2012	715.69	37	32	-	37	19.53	696.16
MW-170S	1/18/2012	717.14	27	17	-	27	20.34	696.8
MW-170D	1/18/2012	717.07	39	34	-	39	20.27	696.8
MW-171S	1/18/2012	711.58	22	12	-	22	15.16	696.42
MW-171D	1/18/2012	711.62	49	44	-	49	15.61	696.01
MW-174S	1/18/2012	717.78	24	14		24	21.14	696.64
MW-174D	1/18/2012	717.72	48	43		48	21.03	696.69
MW-175S	1/18/2012	718.66	25	15		25	20.38	698.28
MW-175D	1/18/2012	718.75	41	37		42	20.32	698.43
U.S. EPA Monitoring Wells (Off-Site)								
MW-WES-01a	1/18/2012	716.30	37.5	32.5		37.5	NG	NG
MW-WES-01b	1/18/2012	716.31	46	41		46	19.39	696.92
MW-WES-01c	1/18/2012	716.28	55	50		55	19.35	696.93
MW-WES-02a	1/18/2012	716.60	29	24		29	18.76	697.84
MW-WES-02b	1/18/2012	716.60	40	35		40	19.40	697.20
MW-WES-02c	1/18/2012	716.69	50	45		50	19.30	697.39
MW-WES-03a	1/18/2012	717.68	35	30		35	21.34	696.34
MW-WES-03b	1/18/2012	717.70	45	40		45	21.35	696.35
MW-WES-04a	1/18/2012	718.14	35	30		35	20.33	697.81
MW-WES-04b	1/18/2012	718.14	45	40		45	20.29	697.85
MW-WES-05a	1/18/2012	717.19	25	20		25	18.30	698.89
MW-WES-05b	1/18/2012	716.97	37.5	32.5		37.5	19.85	697.12
MW-WES-05c	1/18/2012	716.49	50	45		50	19.26	697.23
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) Excluding U.S. EPA wells (MW-WES-prefix), top of Casing (TOC) data was obtained from or referenced to the Unified U.S. EPA Elevation Survey completed on October 13, 2011.

2) U.S. EPA wells (MW-WES-prefix), top of Casing (TOC) data was obtained from the Unified U.S. EPA Elevation Survey documentation provided to MUNDELL in February 2012.

3) NA = Information Not Available at Time of Report Completion

4) NG = Not Gauged

Table 2
Monitoring Well Groundwater Analytical Results
Quarter 1 - 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM 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**
Monitoring Wells (Apts)							
MMW-1S	2/14/2012	**219**	**9.7**	<5.0	<5.0	<5.0	<2.0
MMW-2S	-	NS	NS	NS	NS	NS	NS
MMW-3S	-	NS	NS	NS	NS	NS	NS
MMW-4D	2/14/2012	<5.0	<5.0	**639**	<5.0	<5.0	**237**
MMW-5D	-	NS	NS	NS	NS	NS	NS
MMW-6D	2/14/2012	<5.0	<5.0	<5.0	<5.0	<5.0	**43.9**
MMW-7S	-	NS	NS	NS	NS	NS	NS
MMW-8S	2/14/2012	<5.0	<5.0	12.6	<5.0	<5.0	**148**
MMW-9S	2/14/2012	<25.0	<25.0	**2,040**	60.8	<25.0	**1,140**
MMW-10S	2/14/2012	**35.0**	**21.6**	**357**	6.7	<5.0	**265**
MMW-11S	2/14/2012	<5.0	<5.0	5.4	<5.0	<5.0	<2.0
MMW-11D	2/14/2012	<5.0	<5.0	**240**	19.0	<5.0	<2.0
MMW-12S	2/14/2012	<5.0	<5.0	24.0	<5.0	<5.0	<2.0
MMW-13D	2/14/2012	<5.0	<5.0	**331**	<5.0	<5.0	**9.9**
MMW-14D	2/14/2012	<5.0	<5.0	**1,080**	17.4	<5.0	**89.7**
MMW-15S	2/15/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-15D	2/15/2012	<5.0	<5.0	7.3	<5.0	<5.0	<2.0

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Indianapolis, Indiana
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Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM 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**
Monitoring Wells (Plaza)							
MMW-P-01	2/13/2012	**15.0**	<5.0	**438**	<5.0	<5.0	**2,270**
MMW-P-02	2/13/2012	<5.0	<5.0	**120**	<5.0	<5.0	**479**
MMW-P-03S	2/13/2012	<5.0	<5.0	48.0	<5.0	<5.0	**221**
MMW-P-03D	2/13/2012	<5.0	<5.0	<5.0	<5.0	<5.0	**4.0**
MMW-P-04	2/16/2012	<5.0	<5.0	6.9	<5.0	<5.0	**16.1**
MMW-P-05	2/13/2012	<5.0	<5.0	<5.0	<5.0	<5.0	**79.4**
MMW-P-06	2/13/2012	<50.0	<50.0	**2,800**	<50.0	<50.0	**10,100**
MMW-P-07	2/13/2012	<5.0	<5.0	<5.0	<5.0	<5.0	**330**
MMW-P-08	2/13/2012	<5.0	<5.0	<5.0	<5.0	<5.0	**52.5**
MMW-P-09S	2/15/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-P-09D	2/15/2012	<5.0	<5.0	<5.0	<5.0	<5.0	**70.7**
MMW-P-10S	2/13/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-P-10D	2/13/2012	<5.0	<5.0	28.7	<5.0	<5.0	**1,790**
MMW-P-12S	2/15/2012	<5.0	<5.0	**777**	14.5	<5.0	**61.4**
MMW-P-12D	2/15/2012	<5.0	<5.0	**727**	15.0	<5.0	**65.1**

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Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM 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**
Floral Park Monitoring Wells (Off-site)							
MMW-C-01	2/15/2012	**23.8**	<5.0	6.0	<5.0	<5.0	**21.1**
MMW-C-02S	2/15/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-C-02D	2/15/2012	<5.0	<5.0	<5.0	<5.0	<5.0	**30.7**
MMW-P-11S	2/15/2012	**658**	<5.0	<5.0	<5.0	<5.0	**2.3**
MMW-P-11DR	2/15/2012	<5.0	<5.0	8.4	<5.0	<5.0	**95.1**
MMW-P-13S	2/16/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-P-13D	2/16/2012	<5.0	<5.0	<5.0	<5.0	<5.0	**155**
MMW-P-14S	2/16/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-P-14D	2/16/2012	<5.0	<5.0	<5.0	<5.0	<5.0	**49.6**

Table 2

Monitoring Well Groundwater Analytical Results
Quarter 1 - 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM 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**
Keramida/Environ Monitoring Wells (Off-Site)							
MW167S	-	NS	NS	NS	NS	NS	NS
MW-167D	2/16/2012	<5.0	<5.0	**541**	<5.0	<5.0	**20.0**
MW-168S	-	NS	NS	NS	NS	NS	NS
MW-168D	2/16/2012	<5.0	<5.0	<5.0	<5.0	<5.0	**108**
MW-169S	-	NS	NS	NS	NS	NS	NS
MW-169D	-	NS	NS	NS	NS	NS	NS
MW-170S	2/16/2012	<5.0	<5.0	6.3	<5.0	<5.0	<2.0
MW-170D	2/16/2012	<5.0	<5.0	<5.0	<5.0	<5.0	**88.8**

Notes:

Exceedances of IDEM RISC Industrial Default Cleanup Level in **RED**
Exceedances of 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
NS = Not Sampled
All analytical results presented in micrograms per liter (ug/L).

Table 3
Monitoring Well Groundwater Analytical Results
Quarter 1 - 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM RISC Industrial Default Cleanup Level - 2006		55	31	1,000	2,000	1,000	4
IDEM RISC Residential Default Cleanup Level - 2006		5	5	70	100	80	2
Monitoring Wells (Apts)							
MMW-1S	9/10/2004	< 5.0	< 5.0	< 5.0	< 5.0	<5.0	4.1
	3/15/2005	150	10.0	< 5.0	< 5.0	< 5.0	< 2.0
	11/9/2005	130	8.3	<5.0	<5.0	<5.0	8.9
	9/5/2006	200	13.0	<5.0	<5.0	<5.0	4.6
	2/22/2007	220	14.9	<5.0	<5.0	<5.0	<2.0
	6/14/2007	240	<5.0	<5.0	<5.0	<5.0	<2.0
	9/19/2007	362	10.5	<5.0	<5.0	31.6	<2.0
	12/13/2007	330	8.1	<5.0	<5.0	27.0	<2.0
	3/21/2008	280	14.0	<5.0	<5.0	<5.0	<2.0
	6/6/2008	277	13.2	<5.0	<5.0	<5.0	<2.0
	9/11/2008	288	14.7	<5.0	<5.0	<5.0	<2.0
	11/20/2008	223	45.5	169	<5.0	<5.0	14.5
	3/16/2009	199	11.3	<5.0	<5.0	<5.0	<2.0
	6/16/2009	237	13.4	<5.0	<5.0	<5.0	<2.0
	8/5/2009	195	22.9	71.3	<5.0	<5.0	9.3
	11/2/2009	189	39.0	119	<5.0	<5.0	26.6
	2/3/2010	160	49.7	59.1	<5.0	<5.0	35.4
	4/22/2010	206	14.7	<5.0	<5.0	<5.0	<2.0
	7/21/2010	310	21.8	<5.0	<5.0	<5.0	<2.0
	10/12/2010	89.4	21.3	208	<5.0	<5.0	32.2
	1/19/2011	217	46.2	35.4	<5.0	<5.0	21.8
	5/4/2011	449	22.7	12.1	<5.0	<5.0	<2.0
	7/28/2011	334	20.3	8.1	<5.0	<5.0	2.1
	10/19/2011	136	66.0	75.3	<5.0	<5.0	14.3
	2/14/2012	219	9.7	<5.0	<5.0	<5.0	<2.0
MMW-2S	9/10/2004	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	11/9/2005	<5.0	<5.0	<5.0	<5.0	<5.0	5.2
	9/5/2006	<5.0	<5.0	<5.0	<5.0	<5.0	5.2
	2/22/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/2/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/15/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/22/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/30/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-3S	8/26/2004	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	9/10/2004	<5.0	5.2	<5.0	<5.0	<5.0	<2.0
	11/9/2005	<5.0	28.0	5.4	<5.0	<5.0	<2.0
	9/5/2006	<5.0	23.0	7.4	<5.0	<5.0	<2.0
	2/22/2007	<5.0	20.6	8.5	<5.0	<5.0	<2.0
	6/2/2008	<5.0	20.2	7.9	<5.0	<5.0	2.8
	6/15/2009	<5.0	15.3	11.7	<5.0	<5.0	3.0
	4/20/2010	<5.0	15.9	8.0	<5.0	<5.0	<2.0
	5/4/2011	<5.0	12.4	12.4	<5.0	<5.0	4.4
MMW-4D	8/25/2004	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	9/10/2004	<5.0	<5.0	980	<5.0	<5.0	200
	11/10/2005	<5.0	<5.0	850	<5.0	<5.0	240
	9/5/2006	<5.0	<5.0	1,100	<5.0	<5.0	220
	2/22/2007	<5.0	<5.0	1,460	<5.0	<5.0	248
	6/2/2008	<5.0	<5.0	515	<5.0	<5.0	32.2
	6/15/2009	<5.0	<5.0	892	7.0	<5.0	142
	4/20/2010	<5.0	<5.0	719	<5.0	<5.0	237
	4/29/2011	<5.0	<5.0	1,050	<5.0	<5.0	164
	2/14/2012	<5.0	<5.0	639	<5.0	<5.0	237
MMW-5D	8/24/2004	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	9/10/2004	<5.0	<5.0	3,400	13.0	<5.0	270
	11/10/2005	<5.0	<5.0	3,900	19.0	<5.0	140
	9/5/2006	<50.0	<50	2,500	<50	<5.0	170
	2/22/2007	<50.0	<50.0	3,970	<50.0	<50.0	359
	6/2/2008	<5.0	<5.0	1,360	19.9	<5.0	207
	6/15/2009	<5.0	<5.0	1,110	14.5	<5.0	242
	4/20/2010	<5.0	<5.0	943	<5.0	<5.0	204
	4/29/2011	<5.0	<5.0	659	<5.0	<5.0	166

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MUNDELL Project No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM RISC Industrial Default Cleanup Level - 2006		55	31	1,000	2,000	1,000	4
IDEM RISC Residential Default Cleanup Level - 2006		5	5	70	100	80	2
MMW-6D	9/10/2004	<5.0	<5.0	540	<5.0	<5.0	400
	11/10/2005	<5.0	<5.0	750	<5.0	<5.0	700
	9/5/2006	<5.0	<5.0	300	<5.0	<5.0	440
	2/21/2007	<5.0	<5.0	171	<5.0	<5.0	282
	6/2/2008	<5.0	<5.0	65.5	<5.0	<5.0	242
	6/15/2009	<5.0	<5.0	8.6	<5.0	<5.0	111
	4/20/2010	<5.0	<5.0	8.2	<5.0	<5.0	63.6
	4/29/2011	<5.0	<5.0	<5.0	<5.0	<5.0	51.1
	2/14/2012	<5.0	<5.0	<5.0	<5.0	<5.0	43.9
MMW-7S	8/24/2004	<5.0	<5.0	28.0	<5.0	<5.0	<2.0
	9/10/2004	<5.0	<5.0	8.5	<5.0	<5.0	<2.0
	11/9/2005	<5.0	<5.0	9.5	<5.0	<5.0	<2.0
	9/5/2006	<5.0	<5.0	5.8	<5.0	<5.0	4.5
	2/21/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/2/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/15/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/20/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	5/4/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-8S	2/22/2007	114	<5.0	289	13.8	<5.0	40.6
	6/14/2007	15.9	<5.0	364	9.5	<5.0	82.1
	9/19/2007	<5.0	<5.0	778	24.6	<5.0	145
	12/13/2007	7.7	<5.0	1,000	7.4	<5.0	586
	3/20/2008	<5.0	<5.0	470	<5.0	<5.0	330
	6/6/2008	<5.0	<5.0	336	<5.0	<5.0	509
	9/10/2008	<5.0	<5.0	275	<5.0	<5.0	322
	11/20/2008	<5.0	<5.0	123	<5.0	<5.0	584
	3/16/2009	<5.0	<5.0	95.0	<5.0	<5.0	348
	6/16/2009	<5.0	<5.0	94.3	6.1	<5.0	280
	8/5/2009	<5.0	<5.0	83.8	<5.0	<5.0	261
	11/2/2009	<5.0	<5.0	58.3	<5.0	<5.0	277
	2/3/2010	7.9	<5.0	15.3	<5.0	<5.0	236
	4/22/2010	<5.0	<5.0	9.0	<5.0	<5.0	151
	7/21/2010	6.2	<5.0	14.9	<5.0	5.0	230
	10/12/2010	8.4	<5.0	5.4	<5.0	<5.0	158
	1/19/2011	14.1	<5.0	<5.0	<5.0	<5.0	172
	4/30/2011	677	19.5	37.2	<5.0	<5.0	108
	7/28/2011	19.4	<5.0	29.0	<5.0	<5.0	130
	10/24/2011	7.9	<5.0	9.9	<5.0	<5.0	200
	2/14/2012	<5.0	<5.0	12.6	<5.0	<5.0	148
MMW-9S	2/22/2007	782	88.6	78.9	<5.0	<5.0	<2.0
	6/14/2007	858	85.7	65.3	<5.0	<5.0	<2.0
	9/20/2007	1,430	112	70.3	8.2	<5.0	<2.0
	12/12/2007	<50.0	<50.0	1,700	<50.0	<50.0	<20.0
	3/21/2008	57.0	20.0	2,900	39.0	<5.0	16.0
	6/6/2008	52.9	28.0	1,540	38.2	<5.0	295
	9/10/2008	52.6	22.7	4,920	94.5	<5.0	167
	11/20/2008	<5.0	<5.0	5,820	90.2	<5.0	1,010
	3/16/2009	<50.0	<50.0	7,490	73.8	<50.0	1,800
	6/16/2009	44.5	24.9	4,810	64.0	<5.0	876
	8/5/2009	<5.0	<5.0	5,010	64.2	<5.0	1,110
	11/2/2009	<5.0	<5.0	5,410	120	<5.0	1,050
	2/3/2010	<50.0	<50.0	5,090	98.4	<50.0	1,700
	4/22/2010	<5.0	<5.0	4,300	77.1	<5.0	1,710
	7/21/2010	<50.0	<50.0	2,910	73.2	<50.0	2,020
	10/12/2010	<50.0	<50.0	2,430	<50.0	<50.0	1,270
	1/19/2011	<50.0	<50.0	1,580	136	<50.0	1,490
	5/4/2011	11.1	13.4	2,900	71.7	<5.0	1,350
	7/27/2011	<5.0	<5.0	933	32.0	<5.0	747
	10/24/2011	<5.0	<5.0	2,330	92.8	<5.0	694
	2/14/2012	<25.0	<25.0	2,040	60.8	<25.0	1,140

Table 3
Monitoring Well Groundwater Analytical Results
Quarter 1 - 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM RISC Industrial Default Cleanup Level - 2006		55	31	1,000	2,000	1,000	4
IDEM RISC Residential Default Cleanup Level - 2006		5	5	70	100	80	2
MMW-10S	2/22/2007	49.6	<5.0	<5.0	<5.0	<5.0	<2.0
	6/14/2007	77.6	<5.0	<5.0	<5.0	<5.0	<2.0
	9/19/2007	66.0	<5.0	<5.0	<5.0	<5.0	<2.0
	12/12/2007	124	56.0	149	<5.0	<5.0	<2.0
	3/21/2008	440	12.0	8.1	<5.0	<5.0	12.0
	6/6/2008	541	62.1	218	<5.0	<5.0	30.4
	9/10/2008	6.9	<5.0	353	8.2	<5.0	<2.0
	11/20/2008	<5.0	<5.0	212	<5.0	<5.0	15.9
	3/16/2009	<5.0	<5.0	302	<5.0	<5.0	114
	6/16/2009	22.8	15.4	415	12.0	<5.0	81.4
	8/5/2009	<5.0	<5.0	224	5.5	<5.0	156
	11/2/2009	12.8	10.1	239	5.6	<5.0	119
	2/3/2010	8.3	7.5	180	5.1	<5.0	148
	4/22/2010	<5.0	7.9	165	<5.0	<5.0	143
	7/21/2010	15.6	9.7	267	8.3	<5.0	239
	10/12/2010	<5.0	<5.0	100	<5.0	<5.0	96.1
	1/19/2011	<5.0	14.4	80.9	12.7	<5.0	88.0
	5/4/2011	429	76.6	464	16.9	<5.0	130
	7/27/2011	24.5	14.3	206	7.2	<5.0	295
	10/19/2011	5.2	<5.0	134	<5.0	<5.0	198
	2/14/2012	35.0	21.6	357	6.7	<5.0	265
MMW-11S	6/14/2007	<5.0	<5.0	225	6.8	<5.0	18.6
	9/19/2007	<5.0	<5.0	442	21.1	<5.0	30.1
	12/13/2007	7.2	<5.0	920	27.0	<5.0	49.0
	3/20/2008	<5.0	<5.0	420	17.0	<5.0	4.9
	6/5/2008	<5.0	<5.0	623	23.1	<5.0	26.7
	9/10/2008	<5.0	<5.0	327	18.3	<5.0	9.9
	11/20/2008	<5.0	<5.0	554	23.9	<5.0	18.5
	3/16/2009	<5.0	<5.0	37.6	<5.0	<5.0	<2.0
	6/16/2009	<5.0	<5.0	253	17.9	<5.0	2.8
	8/5/2009	<5.0	<5.0	80.7	5.5	<5.0	3.1
	11/2/2009	<5.0	<5.0	59.9	<5.0	<5.0	<2.0
	2/3/2010	<5.0	<5.0	29.4	<5.0	<5.0	<2.0
	4/22/2010	<5.0	<5.0	17.7	<5.0	<5.0	<2.0
	7/21/2010	<5.0	<5.0	120	7.4	<5.0	4.3
	10/12/2010	<5.0	<5.0	85.1	5.6	<5.0	<2.0
	1/19/2011	<5.0	<5.0	46.3	12.9	<5.0	<2.0
	4/30/2011	<5.0	<5.0	8.3	<5.0	<5.0	<2.0
	7/26/2011	<5.0	<5.0	15.1	<5.0	<5.0	<2.0
	10/21/2011	<5.0	<5.0	33.9	<5.0	<5.0	<2.0
	2/14/2012	<5.0	<5.0	5.4	<5.0	<5.0	<2.0
MMW-11D	6/16/2009	<5.0	<5.0	25.3	6.7	<5.0	<2.0
	8/5/2009	<5.0	<5.0	485	22.6	<5.0	15.3
	11/2/2009	<5.0	<5.0	771	31.8	<5.0	18.8
	2/3/2010	<5.0	<5.0	301	28.2	<5.0	5.2
	4/22/2010	<5.0	<5.0	307	21.8	<5.0	2.6
	7/21/2010	<5.0	<5.0	396	21.8	<5.0	10.9
	10/12/2010	<5.0	<5.0	162	<5.0	<5.0	<2.0
	1/19/2011	<5.0	<5.0	570	26.7	<5.0	5.9
	4/30/2011	<5.0	<5.0	356	17.2	<5.0	3.6
	7/26/2011	<5.0	<5.0	304	18.3	<5.0	3.6
	10/21/2011	<5.0	<5.0	751	22.7	<5.0	11.8
	2/14/2012	<5.0	<5.0	240	19.0	<5.0	<2.0
MMW-12S	6/16/2009	<5.0	<5.0	9.7	<5.0	<5.0	6.5
	8/5/2009	<5.0	<5.0	47.3	<5.0	<5.0	15.2
	11/2/2009	<5.0	<5.0	28.8	<5.0	<5.0	7.1
	2/3/2010	<5.0	<5.0	11.4	<5.0	<5.0	2.1
	4/20/2010	<5.0	<5.0	5.3	<5.0	<5.0	<2.0
	7/21/2010	<5.0	<5.0	25.4	<5.0	<5.0	7.3
	10/12/2010	<5.0	<5.0	16.8	<5.0	<5.0	<2.0
	1/18/2011	<5.0	<5.0	19.7	<5.0	<5.0	<2.0
	4/30/2011	<5.0	<5.0	30.6	<5.0	<5.0	2.7
	7/26/2011	<5.0	<5.0	24.3	<5.0	<5.0	<2.0
	10/18/2011	<5.0	<5.0	39.4	<5.0	<5.0	<2.0
	2/14/2012	<5.0	<5.0	24.0	<5.0	<5.0	<2.0

Table 3
Monitoring Well Groundwater Analytical Results
Quarter 1 - 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM RISC Industrial Default Cleanup Level - 2006		55	31	1,000	2,000	1,000	4
IDEM RISC Residential Default Cleanup Level - 2006		5	5	70	100	80	2
MMW-13D	8/5/2009	<5.0	<5.0	672	<5.0	<5.0	59.2
	11/2/2009	<5.0	<5.0	949	<5.0	<5.0	182
	2/3/2010	<5.0	<5.0	819	6.2	<5.0	260
	4/22/2010	<5.0	<5.0	469	<5.0	<5.0	4.6
	7/21/2010	<5.0	<5.0	432	<5.0	<5.0	16.6
	10/12/2010	<5.0	<5.0	1,200	<5.0	<5.0	187
	1/19/2011	<5.0	<5.0	920	12.3	<5.0	179
	4/30/2011	<5.0	<5.0	527	<5.0	<5.0	15.4
	7/26/2011	<5.0	<5.0	328	<5.0	<5.0	11.9
	10/18/2011	<5.0	<5.0	771	5.2	<5.0	140
	2/14/2012	<5.0	<5.0	331	<5.0	<5.0	9.9
MMW-13D Low	6/16/2009	<5.0	<5.0	613	10.4	<5.0	17.3
MMW-13D Medium (29')	6/16/2009	<5.0	<5.0	578	12.1	<5.0	14.9
MMW-13D High (17')	6/16/2009	<5.0	<5.0	597	9.7	<5.0	21.1
MMW-14D	6/16/2009	<5.0	<5.0	648	15.6	<5.0	57.6
	8/5/2009	<5.0	<5.0	589	10.9	<5.0	79.1
	11/2/2009	<5.0	<5.0	541	9.2	<5.0	83.8
	2/3/2010	<5.0	<5.0	871	13.9	<5.0	84.9
	4/20/2010	<5.0	<5.0	763	14.1	<5.0	72.8
	7/21/2010	<5.0	<5.0	805	14.6	<5.0	60.8
	10/12/2010	<5.0	<5.0	775	8.4	<5.0	83.3
	1/18/2011	<5.0	<5.0	785	24.0	<5.0	109
	4/30/2011	<5.0	<5.0	1,070	14.7	<5.0	68.3
	7/26/2011	<5.0	<5.0	875	15.3	<5.0	81.0
	10/19/2011	<5.0	<5.0	898	11.1	<5.0	92.6
	2/14/2012	<5.0	<5.0	1080	17.4	<5.0	89.7
MMW-155	2/15/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-15D	2/15/2012	<5.0	<5.0	7.3	<5.0	<5.0	<2.0
Monitoring Wells (Plaza)							
MMW-P-01	11/9/2005	33	210	160	9.6	<5.0	76.0
	2/22/2007	85.2	356	274	16.7	<5.0	28.7
	6/14/2007	111	368	350	10.0	<5.0	79.6
	9/20/2007	206	322	300	11.5	<5.0	127
	12/14/2007	230	320	240	7.1	<5.0	87.0
	3/21/2008	120	170	3,100	25.0	<5.0	42.0
	6/5/2008	22.0	31.5	3,660	68.6	<5.0	123
	9/11/2008	14.2	15.1	1,690	<5.0	<5.0	87.7
	11/19/2008	<5.0	<5.0	4,320	<5.0	<5.0	116
	3/17/2009	17.5	22.6	12,300	143	<5.0	3,290
	6/17/2009	<50.0	<50.0	4,020	63.9	<50.0	1,840
	8/6/2009	97.4	<50.0	12,200	<50.0	<50.0	3,730
	11/3/2009	103	58.3	9,330	<50.0	<50.0	4,770
	2/4/2010	104	60.6	9,190	130	<50.0	13,600
	4/22/2010	90.5	79.0	9,400	94.7	<50.0	12,600
	7/7/2010	<50.0	<50.0	1,880	<50.0	<50.0	2,960
	10/14/2010	<125	<125	4,760	<125	<125	5,440
	1/20/2011	153	140	1,960	<50.0	<50.0	11,100
	5/5/2011	8.4	26.8	281	<5.0	<5.0	232
	7/28/2011	5.7	6.0	734	<5.0	<5.0	1,070
	10/24/2011	23.4	10.0	839	9.10	<5.0	1,410
	2/13/2012	15.0	<5.0	438	<5.0	<5.0	2,270

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Monitoring Well Groundwater Analytical Results
Quarter 1 - 2012
Michigan Plaza
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Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM RISC Industrial Default Cleanup Level - 2006		55	31	1,000	2,000	1,000	4
IDEM RISC Residential Default Cleanup Level - 2006		5	5	70	100	80	2
MMW-P-02	11/8/2005	24.0	<5.0	87.0	7.3	<5.0	49.0
	2/22/2007	184	<5.0	39.4	<5.0	<5.0	27.4
	6/14/2007	17.1	<5.0	35.0	<5.0	<5.0	27.5
	9/19/2007	13.3	<5.0	66.3	5.6	<5.0	50.1
	12/13/2007	7.8	<5.0	69.0	<5.0	<5.0	53.0
	3/20/2008	19.0	<5.0	67.0	<5.0	<5.0	42.0
	6/5/2008	94.9	<5.0	44.0	<5.0	<5.0	46.4
	9/11/2008	17.5	<5.0	46.6	<5.0	<5.0	42.0
	11/19/2008	10.7	<5.0	75.4	<5.0	<5.0	69.5
	3/17/2009	23.4	<5.0	65.4	5.3	<5.0	68.4
	6/17/2009	5.1	<5.0	54.2	9.2	<5.0	80.6
	8/6/2009	5.1	<5.0	55.8	<5.0	<5.0	56.2
	11/3/2009	11.1	<5.0	60.1	<5.0	<5.0	73.9
	2/4/2010	7.4	<5.0	75.8	5.8	<5.0	104
	4/22/2010	9.9	6.8	56.0	8.0	<5.0	110
	7/21/2010	24.0	<5.0	72.4	<5.0	<5.0	161
	10/13/2010	9.3	<5.0	61.0	<5.0	<5.0	95.0
	1/19/2011	15.9	<5.0	64.3	14.0	<5.0	396
	5/4/2011	9.2	<5.0	56.5	<5.0	<5.0	386
	7/27/2011	<5.0	<5.0	42.9	<5.0	<5.0	218
	10/19/2011	9.1	<5.0	36.9	<5.0	<5.0	304
	2/13/2012	<5.0	<5.0	120.0	<5.0	<5.0	479
MMW-P-03S	11/9/2005	110	<5.0	97.0	9.6	<5.0	<2.0
	2/22/2007	397	<5.0	105	10.0	<5.0	<2.0
	6/14/2007	256	<5.0	96.4	9.2	<5.0	9.3
	9/20/2007	144	<5.0	131	15.8	<5.0	16.0
	12/13/2007	67.0	<5.0	88.0	5.3	<5.0	15.0
	3/20/2008	130	<5.0	84.0	7.3	<5.0	10.0
	6/5/2008	19.4	<5.0	380	14.9	<5.0	10.6
	9/11/2008	<5.0	<5.0	<5.0	<5.0	<5.0	72.6
	11/19/2008	<5.0	6.0	494	<5.0	<5.0	40.8
	3/17/2009	7.5	<5.0	904	38.7	<5.0	283
	6/17/2009	<5.0	<5.0	332	22.3	<5.0	759
	8/6/2009	30.6	8.2	573	25.0	<5.0	843
	11/3/2009	<5.0	<5.0	141	16.1	<5.0	379
	2/4/2010	<5.0	<5.0	155	19.4	<5.0	382
	4/22/2010	14.2	8.9	156	13.4	<5.0	377
	7/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	141
	10/13/2010	<5.0	<5.0	70.9	9.2	<5.0	542
	1/19/2011	<5.0	<5.0	79.7	19.4	<5.0	338
	5/4/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	7/27/2011	<5.0	<5.0	29.3	<5.0	<5.0	245
	10/19/2011	<5.0	<5.0	33.5	6.6	<5.0	446
	2/13/2012	<5.0	<5.0	48.0	<5.0	<5.0	221

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

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM RISC Industrial Default Cleanup Level - 2006		55	31	1,000	2,000	1,000	4
IDEM RISC Residential Default Cleanup Level - 2006		5	5	70	100	80	2
MMW-P-03D	11/9/2005	22.0	<5.0	42.0	<5.0	<5.0	2.0
	2/22/2007	48.9	<5.0	57.8	<5.0	39.0	15.6
	6/14/2007	21.7	<5.0	74.9	<5.0	<5.0	34.5
	9/19/2007	14.3	<5.0	76.1	7.3	<5.0	36.6
	12/13/2007	11.0	<5.0	40.0	<5.0	<5.0	20.0
	39527	<5.0	<5.0	170	6.0	<5.0	18.0
	39604	<5.0	<5.0	150	7.4	<5.0	26.0
	39702	<5.0	<5.0	95.7	6.4	<5.0	<2.0
	11/19/2008	<5.0	<5.0	80.6	<5.0	<5.0	36.9
	3/17/2009	<5.0	<5.0	65.2	<5.0	<5.0	69.8
	6/17/2009	<5.0	<5.0	14.9	5.9	<5.0	137
	8/6/2009	<5.0	<5.0	16.7	<5.0	<5.0	248
	11/3/2009	<5.0	<5.0	8.5	<5.0	<5.0	168
	2/4/2010	<5.0	<5.0	<5.0	<5.0	<5.0	287
	4/22/2010	<5.0	<5.0	7.2	<5.0	<5.0	211
	7/21/2010	6.6	<5.0	271	8.1	<5.0	305
	10/13/2010	<5.0	<5.0	<5.0	<5.0	<5.0	16.2
	1/19/2011	<5.0	<5.0	<5.0	<5.0	<5.0	46.2
	5/4/2011	<5.0	<5.0	64.3	<5.0	<5.0	118
	7/27/2011	<5.0	<5.0	<5.0	<5.0	<5.0	10.5
	10/18/2011	<5.0	<5.0	<5.0	<5.0	<5.0	61.5
	2/13/2012	<5.0	<5.0	<5.0	<5.0	<5.0	4.0
MMW-P-04	11/9/2005	180	<5.0	<5.0	<5.0	<5.0	<2.0
	2/22/2007	315	<5.0	<5.0	<5.0	<5.0	<2.0
	6/14/2007	268	<5.0	<5.0	<5.0	<5.0	<2.0
	9/20/2007	214	<5.0	<5.0	<5.0	<5.0	<2.0
	12/13/2007	62.0	<5.0	<5.0	<5.0	<5.0	<2.0
	3/20/2008	120	<5.0	<5.0	<5.0	<5.0	<2.0
	6/6/2008	154	6.0	59.7	<5.0	<5.0	<2.0
	9/11/2008	31.9	<5.0	360	7.1	<5.0	<2.0
	11/19/2008	45.0	<5.0	248	<5.0	<5.0	<2.0
	3/18/2009	19.4	5.4	304	10.8	<5.0	<2.0
	6/17/2009	35.3	5.4	827	22.0	<5.0	2.0
	8/6/2009	<5.0	<5.0	15.1	<5.0	<5.0	<2.0
	11/5/2009	<5.0	<5.0	1,190	36.9	<5.0	90.9
	2/12/2010	<5.0	<5.0	144	8.3	<5.0	224
	4/21/2010	<5.0	<5.0	268	15.8	<5.0	364
	7/22/2010	<5.0	<5.0	189	12.9	<5.0	402
	10/13/2010	<5.0	<5.0	10.3	<5.0	<5.0	16.8
	2/18/2011	<5.0	<5.0	6.4	<5.0	<5.0	36.3
	5/5/2011	144	<5.0	76.2	<5.0	<5.0	124
	7/28/2011	<5.0	<5.0	30.6	<5.0	<5.0	78.8
	10/24/2011	<5.0	<5.0	14.8	<5.0	<5.0	68.7
	2/16/2012	<5.0	<5.0	6.9	<5.0	<5.0	16.1

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Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM RISC Industrial Default Cleanup Level - 2006		55	31	1,000	2,000	1,000	4
IDEM RISC Residential Default Cleanup Level - 2006		5	5	70	100	80	2
MMW-P-05	11/8/2005	<5.0	<5.0	6.2	<5.0	<5.0	<2.0
	2/22/2007	23.7	<5.0	9.1	<5.0	<5.0	<2.0
	6/14/2007	<5.0	<5.0	18.8	<5.0	<5.0	<2.0
	9/19/2007	<5.0	<5.0	18.8	<5.0	<5.0	<2.0
	12/14/2007	<5.0	<5.0	14.8	<5.0	<5.0	<2.0
	3/20/2008	<5.0	<5.0	8.1	<5.0	<5.0	<2.0
	6/5/2008	<5.0	<5.0	15.6	<5.0	<5.0	<2.0
	9/11/2008	<5.0	<5.0	16.7	<5.0	<5.0	<2.0
	11/19/2008	<5.0	<5.0	22.1	<5.0	<5.0	<2.0
	3/17/2009	<5.0	<5.0	13.7	<5.0	<5.0	<2.0
	6/17/2009	<5.0	<5.0	10.9	6.6	<5.0	<2.0
	8/6/2009	<5.0	<5.0	15.1	<5.0	<5.0	<2.0
	11/3/2009	<5.0	<5.0	7.6	<5.0	<5.0	2.7
	2/4/2010	<5.0	<5.0	6.8	<5.0	<5.0	<2.0
	4/22/2010	<5.0	<5.0	8.6	<5.0	<5.0	<2.0
	7/21/2010	<5.0	<5.0	10.4	<5.0	<5.0	5.3
	10/13/2010	<5.0	<5.0	13.6	<5.0	<5.0	3.9
	1/20/2011	<5.0	<5.0	14.1	<5.0	<5.0	<2.0
	4/30/2011	<5.0	<5.0	<5.0	<5.0	<5.0	9.2
	7/27/2011	<5.0	<5.0	10.3	<5.0	<5.0	307
	10/19/2011	<5.0	<5.0	8.3	<5.0	<5.0	48.3
	2/13/2012	<5.0	<5.0	<5.0	<5.0	<5.0	79.4
MMW-P-06	11/8/2005	<5.0	<5.0	200	24.0	<5.0	21.0
	2/22/2007	<5.0	<5.0	158	19.2	<5.0	<2.0
	6/14/2007	<5.0	<5.0	214	22.7	<5.0	13.3
	9/19/2007	<5.0	<5.0	283	38.2	<5.0	26.1
	12/14/2007	<5.0	<5.0	260	40.0	<5.0	31.0
	3/20/2008	<5.0	<5.0	250	31.0	<5.0	26.0
	6/5/2008	<5.0	<5.0	265	30.9	<5.0	40.1
	9/11/2008	<5.0	<5.0	271	33.3	<5.0	<2.0
	11/19/2008	<5.0	<5.0	292	<5.0	<5.0	61.4
	3/17/2009	<5.0	<5.0	292	35.3	<5.0	<2.0
	6/17/2009	<5.0	<5.0	145	22.2	<5.0	90.6
	8/6/2009	<5.0	<5.0	136	14.3	<5.0	301
	11/3/2009	<5.0	<5.0	107	15.2	<5.0	292
	2/4/2010	<5.0	<5.0	79.1	11.2	<5.0	1,870
	4/22/2010	<5.0	<5.0	23.7	8.0	<5.0	2,470
	7/21/2010	<50.0	<50.0	<50.0	<50.0	<50.0	5,870
	10/14/2010	<100	<100	<100	<100	<100	12,900
	1/20/2011	<100	<100	2,700	<100	<100	15,000
	5/4/2011	<50.0	<50.0	2,850	<50.0	<50.0	14,400
	7/28/2011	<50.0	<50.0	1,670	<50.0	<50.0	15,600
	10/24/2011	<50.0	<50.0	10,100	<50.0	<50.0	11,300
	2/13/2012	<50.0	<50.0	2,800	<50.0	<50.0	10,100

Table 3
Monitoring Well Groundwater Analytical Results
Quarter 1 - 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM RISC Industrial Default Cleanup Level - 2006		55	31	1,000	2,000	1,000	4
IDEM RISC Residential Default Cleanup Level - 2006		5	5	70	100	80	2
MMW-P-07	2/22/2007	3,060	81.5	82.0	8.8	<5.0	<2.0
	6/14/2007	2,850	90.0	82.5	<50.0	<50.0	<20.0
	9/20/2007	5,200	109	121	16.1	<5.0	2.0
	12/13/2007	1,440	157	930	8.8	7.4	80.0
	3/21/2008	31.0	7.6	1,700	27.0	<5.0	110
	6/5/2008	<5.0	<5.0	938	15.6	<5.0	466
	9/11/2008	<5.0	<5.0	1,870	55.2	<5.0	1,620
	11/19/2008	<5.0	<5.0	797	<5.0	<5.0	749
	3/17/2009	<5.0	<5.0	361	17.7	<5.0	1,830
	6/17/2009	<5.0	<5.0	87.1	9.4	<5.0	1,130
	8/6/2009	<5.0	<5.0	48.7	<5.0	<5.0	787
	11/3/2009	<5.0	<5.0	809	14.1	<5.0	1,510
	2/4/2010	<5.0	<5.0	555	12.4	<5.0	1,880
	4/22/2010	<5.0	7.0	1,050	23.7	<5.0	2,080
	7/22/2010	<5.0	<5.0	247	7.8	<5.0	1,680
	10/14/2010	<25.0	<25.0	665	<25.0	<25.0	2,310
	1/20/2011	<5.0	<5.0	295	13.9	<5.0	562
	5/4/2011	<5.0	<5.0	72.0	<5.0	<5.0	2,170
	7/28/2011	<5.0	<5.0	73.6	<5.0	<5.0	978
	10/24/2011	<5.0	<5.0	37.3	<5.0	<5.0	388
	2/13/2012	<5.0	<5.0	<5.0	<5.0	<5.0	330
MMW-P-08	2/22/2007	6,280	281	240	26.7	<5.0	<2.0
	6/14/2007	6,440	310	169	<50.0	<50.0	<20.0
	9/20/2007	9,780	494	201	25.3	<5.0	6.5
	12/14/2007	390	210	5,800	<50.0	<50.0	<20.0
	3/21/2008	6.7	11.0	6,500	130	<5.0	55.0
	6/5/2008	<5.0	<5.0	<5.0	<5.0	<5.0	562
	9/11/2008	5.8	5.0	18,300	686	<50.0	4,740
	11/19/2008	<50.0	<50.0	5,690	91.4	<50.0	13,000
	3/17/2009	<5.0	<5.0	1,130	47.1	<5.0	5,680
	6/17/2009	<125	<125	356	145	<5.0	7,200
	8/6/2009	<125	<125	601	<50.0	<50.0	8,960
	11/3/2009	<50.0	<50.0	86.7	<50.0	<50.0	2,860
	2/4/2010	<50.0	<50.0	1,140	<50.0	<50.0	4,860
	4/22/2010	<5.0	<5.0	45.7	8.1	<5.0	2,180
	7/22/2010	<5.0	<5.0	97.8	<5.0	<5.0	1,320
	10/14/2010	<25.0	<25.0	39.5	<25.0	<25.0	676
	1/20/2011	<5.0	<5.0	590	14.8	<25.0	1,770
	5/4/2011	<5.0	<5.0	288	<5.0	<5.0	2,030
	7/27/2011	<5.0	<5.0	35.9	<5.0	<5.0	274
	10/24/2011	<5.0	<5.0	32.5	<5.0	<5.0	136
	2/13/2012	<5.0	<5.0	<5.0	<5.0	<5.0	52.5
MMW-P-09S	2/22/2007	10.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/14/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	9/19/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	12/12/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	3/20/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/5/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	9/11/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	11/19/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	3/17/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/16/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	8/6/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	11/3/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	2/3/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/22/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	7/22/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	10/13/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	1/19/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/30/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	7/26/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	10/18/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	2/15/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0

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Quarter 1 - 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM RISC Industrial Default Cleanup Level - 2006		55	31	1,000	2,000	1,000	4
IDEM RISC Residential Default Cleanup Level - 2006		5	5	70	100	80	2
MMW-P-09D	6/14/2007	<5.0	<5.0	<5.0	<5.0	<5.0	46.2
	9/19/2007	<5.0	<5.0	<5.0	<5.0	<5.0	83.1
	12/12/2007	<5.0	<5.0	<5.0	<5.0	<5.0	71.0
	3/20/2008	<5.0	<5.0	<5.0	<5.0	<5.0	3.0
	6/5/2008	<5.0	<5.0	<5.0	<5.0	<5.0	100
	9/11/2008	<5.0	<5.0	<5.0	<5.0	<5.0	72.6
	11/19/2008	<5.0	<5.0	<5.0	<5.0	<5.0	97.2
	3/17/2009	<5.0	<5.0	<5.0	<5.0	<5.0	85.1
	6/16/2009	<5.0	<5.0	<5.0	<5.0	<5.0	73.5
	8/6/2009	<5.0	<5.0	<5.0	<5.0	<5.0	80.8
	11/3/2009	<5.0	<5.0	<5.0	<5.0	<5.0	87.1
	2/3/2010	<5.0	<5.0	<5.0	<5.0	<5.0	111
	4/22/2010	<5.0	<5.0	<5.0	<5.0	<5.0	76.9
	7/22/2010	<5.0	<5.0	<5.0	<5.0	<5.0	81.2
	10/13/2010	<5.0	<5.0	<5.0	<5.0	<5.0	70.6
	1/19/2011	<5.0	<5.0	<5.0	<5.0	<5.0	66.9
	4/30/2011	<5.0	<5.0	<5.0	<5.0	<5.0	74.5
	7/26/2011	<5.0	<5.0	<5.0	<5.0	<5.0	83.3
	10/21/2011	<5.0	<5.0	<5.0	<5.0	<5.0	71.9
	2/15/2012	<5.0	<5.0	<5.0	<5.0	<5.0	70.7
MMW-P-10S	6/14/2007	36.1	36.3	61.6	6.9	<5.0	<2.0
	7/6/2007	87.9	54.9	92.1	10.2	<5.0	<2.0
	9/19/2007	192	82.6	126	14.4	<5.0	<2.0
	12/14/2007	71.0	<5.0	<5.0	<5.0	<5.0	2.4
	3/20/2008	26.8	19.2	250	12.2	<5.0	<2.0
	6/5/2008	15.0	9.7	537	16.0	<5.0	114
	9/11/2008	74.8	36.5	1,650	74.0	<5.0	27.7
	11/19/2008	78.6	28.0	1,510	<5.0	<5.0	22.3
	3/17/2009	11.9	8.6	1,160	71.5	<5.0	<2.0
	6/17/2009	<5.0	<5.0	331	20.5	<5.0	63.9
	8/6/2009	<5.0	<5.0	158	16.1	<5.0	395
	11/3/2009	<5.0	<5.0	29.6	<5.0	<5.0	288
	2/4/2010	<5.0	<5.0	45.4	<5.0	<5.0	419
	4/22/2010	<5.0	<5.0	16.2	<5.0	<5.0	118
	7/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	16.5
	10/14/2010	<5.0	<5.0	5.4	<5.0	<5.0	381
	1/20/2011	<5.0	<5.0	11.7	<5.0	<5.0	27.8
	5/5/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	7/27/2011	<5.0	<5.0	<5.0	<5.0	<5.0	12.5
	10/21/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	2/13/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-P-10D	6/14/2007	<5.0	10.6	481	7.7	<5.0	98.7
	7/6/2007	<5.0	<5.0	498	9.0	<5.0	118
	9/19/2007	<5.0	<5.0	350	<5.0	<5.0	76.1
	12/14/2007	<5.0	<5.0	270	<5.0	<5.0	77.0
	3/20/2008	<5.0	<5.0	<5.0	<5.0	<5.0	3.0
	6/5/2008	<5.0	<5.0	508	<5.0	<5.0	267
	9/11/2008	<5.0	<5.0	435	<5.0	<5.0	288
	11/19/2008	<5.0	<5.0	3,390	<5.0	<5.0	5,030
	3/17/2009	<5.0	<5.0	4,860	12.9	<5.0	2,500
	6/17/2009	<5.0	<5.0	3,710	9.6	<5.0	9,070
	8/6/2009	<5.0	<5.0	2,520	5.1	<5.0	3,400
	11/3/2009	<5.0	<5.0	2,740	<5.0	<5.0	3,500
	2/4/2010	<5.0	<5.0	406	<5.0	<5.0	2,130
	4/22/2010	<5.0	<5.0	30.5	<5.0	<5.0	364
	7/22/2010	<5.0	<5.0	120	<5.0	<5.0	865
	10/14/2010	<25.0	<25.0	<25.0	<25.0	<25.0	707
	1/20/2011	<5.0	<5.0	21.4	<5.0	<5.0	1,210
	5/5/2011	<5.0	<5.0	8.1	<5.0	<5.0	272
	7/27/2011	<5.0	<5.0	46.5	<5.0	<5.0	825
	10/21/2011	<5.0	<5.0	<5.0	<5.0	<5.0	444
	2/13/2012	<5.0	<5.0	28.7	<5.0	<5.0	1790
MMW-P-12S	9/9/2011	<5.0	<5.0	741	14.1	<5.0	50.8
	10/24/2011	<5.0	<5.0	642	19.2	<5.0	60.7
	2/15/2012	<5.0	<5.0	777	14.5	<5.0	61.4

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Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM RISC Industrial Default Cleanup Level - 2006		55	31	1,000	2,000	1,000	4
IDEM RISC Residential Default Cleanup Level - 2006		5	5	70	100	80	2
MMW-P-12D	9/9/2011	<5.0	<5.0	678	15.9	<5.0	63.0
	10/24/2011	<5.0	<5.0	644	14.2	<5.0	71.3
	2/15/2012	<5.0	<5.0	727	15.0	<5.0	65.1
ENVIRON Monitoring Wells (Off-site)							
MW-165D	7/7/2010	<5.0	<5.0	122	<5.0	<5.0	202
MW-167S	11/7/2005	<5.0	<5.0	<5.0	<5.0	<5.0	14.0
	2/21/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/5/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/17/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/29/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MW167D	11/7/2005	<5.0	<5.0	750	<5.0	<5.0	110
	2/21/2007	<5.0	<5.0	375	10.0	<5.0	59.3
	6/5/2008	<5.0	<5.0	616	28.0	<5.0	43.8
	6/17/2009	<5.0	<5.0	612	22.1	<5.0	23.8
	4/21/2010	<5.0	<5.0	626	22.1	<5.0	25.6
	4/29/2011	<5.0	<5.0	392	18.9	<5.0	14.9
	2/16/2012	<5.0	<5.0	541	<5.0	<5.0	20.0
MW-168S	11/7/2005	280	16.0	53.0	<5.0	<5.0	3.0
	2/21/2007	30.1	8.8	155	<5.0	<5.0	29.6
	6/14/2007	<5.0	<5.0	40.8	<5.0	<5.0	34.0
	9/19/2007	32.6	8.0	82.4	<5.0	<5.0	3.5
	12/13/2007	52.0	14.0	78.0	<5.0	<5.0	4.1
	3/20/2008	92.0	12.0	46.0	<5.0	<5.0	4.2
	6/5/2008	80.4	10.1	41.1	<5.0	<5.0	3.6
	9/11/2008	68.5	10.8	66.9	<5.0	<5.0	5.5
	8/7/2009	62.6	10.2	118	<5.0	NS	9.9
	4/21/2010	14.0	7.0	21.9	<5.0	<5.0	<2.0
MW-168D	11/7/2005	<5.0	<5.0	6.8	<5.0	<5.0	49.0
	2/21/2007	<5.0	<5.0	8.4	<5.0	<5.0	58.1
	6/14/2007	<5.0	<5.0	5.2	<5.0	<5.0	47.5
	9/19/2007	<5.0	<5.0	<5.0	<5.0	<5.0	89.7
	12/12/2007	<5.0	<5.0	<5.0	<5.0	<5.0	74.0
	3/20/2008	<5.0	<5.0	8.0	<5.0	<5.0	39.0
	6/5/2008	<5.0	<5.0	13.4	<5.0	<5.0	65.9
	9/11/2008	<5.0	<5.0	5.5	<5.0	<5.0	<2.0
	3/17/2009	<5.0	<5.0	16.5	<5.0	<5.0	<2.0
	6/18/2009	<5.0	<5.0	<5.0	<5.0	<5.0	14.5
	8/7/2009	<5.0	<5.0	<5.0	<5.0	<5.0	36.2
	11/4/2009	<5.0	<5.0	<5.0	<5.0	<5.0	99.1
	2/4/2010	<5.0	<5.0	6.3	<5.0	<5.0	128
	4/21/2010	<5.0	<5.0	13.2	<5.0	<5.0	134
	7/22/2010	<5.0	<5.0	6.0	<5.0	<5.0	122
	10/13/2010	<5.0	<5.0	<5.0	<5.0	<5.0	134
	4/29/2011	<5.0	<5.0	<5.0	10.0	<5.0	96.4
	7/28/2011	<5.0	<5.0	<5.0	<5.0	<5.0	228
	10/24/2011	<5.0	<5.0	8.9	<5.0	<5.0	137
	2/16/2012	<5.0	<5.0	<5.0	<5.0	<5.0	108
MW-169S	11/7/2005	<5.0	<5.0	<5.0	<5.0	NA	<2.0
	2/21/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/5/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/29/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MW-169D	11/7/2005	<5.0	<5.0	<5.0	<5.0	NA	5.1
	2/21/2007	<5.0	<5.0	<5.0	<5.0	<5.0	11.9
	6/5/2008	<5.0	<5.0	<5.0	<5.0	<5.0	14.3
	4/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	6.1
	4/29/2011	<5.0	<5.0	<5.0	<5.0	<5.0	9.1
MW-170S	2/21/2007	<5.0	<5.0	<5.0	<5.0	<5.0	21.2
	6/3/2008	<5.0	<5.0	<5.0	<5.0	<5.0	5.5
	6/17/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/29/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	2/16/2012	<5.0	<5.0	6.3	<5.0	<5.0	<2.0

Table 3
Monitoring Well Groundwater Analytical Results
Quarter 1 - 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM RISC Industrial Default Cleanup Level - 2006		55	31	1,000	2,000	1,000	4
IDEM RISC Residential Default Cleanup Level - 2006		5	5	70	100	80	2
MW-170D	2/21/2007	<5.0	<5.0	<5.0	<5.0	<5.0	105
	6/3/2008	<5.0	<5.0	<5.0	<5.0	<5.0	230
	6/17/2009	<5.0	<5.0	<5.0	<5.0	<5.0	174
	4/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	161
	7/7/2010	<5.0	<5.0	<5.0	<5.0	<5.0	233
	4/29/2011	<5.0	<5.0	<5.0	<5.0	<5.0	100
	2/16/2012	<5.0	<5.0	<5.0	<5.0	<5.0	88.8
MW-171S	2/21/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/3/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/29/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MW-171D	2/21/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/3/2008	<5.0	<5.0	<5.0	<5.0	<5.0	3.0
	6/16/2009	<5.0	<5.0	<5.0	<5.0	<5.0	2.2
	4/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	6.3
	7/22/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/29/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
Floral Park Cemetery Wells (Off-site)							
MMW-C-01	11/20/2008	15.7	8.3	296	<5.0	<5.0	<2.0
	3/17/2009	<5.0	<5.0	508	7.3	<5.0	<2.0
	6/18/2009	23.2	<5.0	<5.0	<5.0	<5.0	<2.0
	8/6/2009	84.8	<5.0	66.9	<5.0	<5.0	35.2
	11/3/2009	12.6	<5.0	211	8.9	<5.0	2,720
	2/3/2010	<5.0	<5.0	176	10.1	<5.0	1,790
	4/21/2010	15.3	<5.0	165	7.1	<5.0	1,660
	7/22/2010	40.9	<5.0	22.4	<5.0	<5.0	8.1
	10/14/2010	<5.0	<5.0	69.1	<5.0	<5.0	1,100
	1/19/2011	<5.0	<5.0	14.7	<5.0	<5.0	215
	5/5/2011	22.2	<5.0	<5.0	<5.0	<5.0	<2.0
	7/27/2011	36.7	<5.0	17.1	<5.0	<5.0	150
	10/21/2011	18.7	<5.0	20.6	<5.0	<5.0	59
	2/15/2012	23.8	<5.0	6.0	<5.0	<5.0	21
MMW-C-02S*	11/20/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	3/17/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	6/18/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	8/6/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	11/3/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	2/3/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/21/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	7/22/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	10/13/2010	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	1/19/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	4/30/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	7/27/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	10/18/2011	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	2/15/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-C-02D*	2/15/2012	<5.0	<5.0	<5.0	<5.0	<5.0	30.7
MMW-P-11S	9/9/2011	76.1	<5.0	5.9	<5.0	<5.0	9.1
	10/24/2011	592	<5.0	<5.0	<5.0	<5.0	2.5
	2/15/2012	658	<5.0	<5.0	<5.0	<5.0	2.3

Table 3
Monitoring Well Groundwater Analytical Results
Quarter 1 - 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
IDEM RISC Industrial Default Cleanup Level - 2006		**55**	**31**	**1,000**	**2,000**	**1,000**	**4**
IDEM RISC Residential Default Cleanup Level - 2006		**5**	**5**	**70**	**100**	**80**	**2**
MMW-P-11DR	2/15/2012	<5.0	<5.0	8.4	<5.0	<5.0	**95.1**
MMW-P-13S	9/9/2011	<5.0	<5.0	<5.0	<5.0	<5.0	**8.3**
	10/24/2011	<5.0	<5.0	<5.0	<5.0	<5.0	**19.8**
	2/16/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-P-13D	9/9/2011	<5.0	<5.0	<5.0	<5.0	<5.0	**139**
	10/24/2011	<5.0	<5.0	<5.0	<5.0	<5.0	**116**
	2/16/2012	<5.0	<5.0	<5.0	<5.0	<5.0	**155**
MMW-P-14S	2/16/2012	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-P-14D	2/16/2012	<5.0	<5.0	<5.0	<5.0	<5.0	**49.6**

Notes:

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

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

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

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

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

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

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

Table 4

Monitoring Well Cumulative Enhanced Anaerobic Bioremediation-
MNA Indicator Parameters
Quarter 1 - 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	pH	Dissolved Oxygen	Oxidation Reduction Potential	Conductivity	Nitrogen, Nitrate	Nitrogen, Nitrite	Iron	Total Organic Carbon	Sulfate	Acetic Acid	Butyric Acid	Hexanoic Acid	i-Hexanoic Acid	i-Pentanoic Acid	Lactic Acid and HIBA	Pentanoic Acid	Propionic Acid	Pyruvic Acid	Ethane	Ethene	Methane
		-	ug/L	mV	uS/cm	mg/L														ug/l		
		FIELD MEASUREMENTS				LAB RESULTS																
MMW-1S	2/22/2007	8.0	4,800	290	920.0																	
	9/19/2007	7.2	3,100	240	1100.0																	
	12/13/2007		6,400	430	910.0																	
	3/21/2008		1,650	230	3752.6	8.3				37.5												
	6/3 & 6/6/2008		1,286		3346.1	2.5				36.6	9.0	0.14	0.35	<0.10	<0.070	0.35	<0.070	1.4	<0.070	<0.025	<0.025	270
	9/11/2008					5.8				95.0												
	11/20/2008	6.8	824	533	3044.0	<0.10				71.3												
	3/16/2009	6.7	4,879	484	2794.0	7.3				67.6												
	6/16/2009					9.3				42.8												
	8/5/2009					<0.10				150												
	11/2/2009	6.7	1,900	-28	1235.4	<0.10				12.4										0.12	0.18	14,000
	2/3/2010	6.7	5,359	-47	1163.7	<0.10				13.3										0.086	0.10	18,000
	4/22/2010	6.8	2,753	-43	1309.1	9.6				33.6												
	7/21 & 7/22/2010	6.6	2,413	18	1543.3	5.6				51.4												
	10/12/2010	6.6	5,576	-229	1518.3	<0.10				60.0												
	1/19/2011	6.8	2,245		1190.3	<0.10				76.4	<0.070	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15			
	5/4/2011	6.8	2,771	-79	1258.1	19.3	<0.10	0.0	1.8	35.0	0.12	<0.050	<0.050	<0.050	<0.15	0.38	<0.070	0.072	<0.15	<0.025	0.048	12.0
	7/28/2011	6.6	730	-179	1474.0	<0.10	<0.10	0.0	3.1	96.0	0.25	0.092	<0.050	<0.050	<0.15	0.87	<0.070	0.068	<0.15	<0.025	0.160	9,000
	10/19/2011	6.8	170	-60	1172.0	<0.10	<0.10	2.3	1.7	56.2	0.083	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	0.064	<0.15	0.029	0.280	13,000
	2/14/2012	6.8	2,024	71	1066.0	45.0	<0.80	0.0	2.6	40.8	0.010 J	<0.050	<0.050	<0.050	<0.15	0.067 J	<0.070	<0.050	<0.15	0.039	0.099	200
*MMW-2S	6/2/2008	7.0			867.7																	
	4/22/2010	7.2	7,865	107	786.4																	
	4/30/2011	7.3	9,482	21	619.5																	
*MMW-3S	6/6/2008	7.0	505		2673.1																	
	4/20/2010	7.2	454	75	932.6																	
	5/4/2011	7.2	587	-228	892.3																	
*MMW-4D	6/2/2008	7.0	153		1541.2																	
	4/20/2010	7.1	379	0	1209.8																	
	4/29/2011	7.1	764	-104	1227.6																	
	2/14/2012	7.1	595	-71	1117.0																	
*MMW-5D	6/2/2008	7.1			1090.6																	
	4/20/2010	7.1	304	126	1064.0																	
	4/29/2011	7.3	266	-233	1472.3																	
*MMW-6D	6/6/2008	7.4	514		2907.3																	
	4/20/2010	7.4	362	51	1060.9																	
	4/29/2011	7.3	142	-251	1238.8																	
	2/14/2012	7.2	671	-34	697.9																	
*MMW-7S	6/6/2008	6.4	441		3119.3																	
	4/20/2010	6.8	637	200	1013.2																	
	5/4/2011	6.9	1,321	-205	1080.1																	
MMW-8S	9/19/2007	7.7	2,300	-43	780.0																	
	12/13/2007	6.0		220	1.5																	
	3/20/2008		180		0.3																	
	6/6/2008		1,271		3385.2																	
	11/20/2008	7.1	487	515	2761.4																	
	3/16/2009	6.6	2,188	698	2647.0																	
	8/5/2009	7.1	2,439	-160	1024.3																	
	11/2/2009	7.0	1,805	-71	955.4																	
	2/3/2010	7.0	4,638	-49	840.9																	
	4/22/2010	7.1	1,303	-47	891.8																	
	7/21/2010	7.0	1,709	-32	995.1																	
	10/12/2010	7.1	124	-274	879.8																	
	1/19/2011	6.7	969		1002.3																	
	4/30/2011	6.8	200	-164	1905.7	16.3	<0.40	2.5	2.2	108	0.10	<0.050	<0.050	<0.050	<0.15	0.22	<0.070	0.065	<0.15	0.07	33.0	7,600
	7/28/2011	6.6	2,202	-47	2259.3	<0.10	<0.10	3.5	1.1	227	<0.070	<0.050	<0.050	<0.050	<0.15	0.20	<0.070	<0.050	<0.15	0.16	26.0	8,500
	10/24/2011	7.0	190	-90	1016.0	<0.10	<0.10	3.8	1.4	250	<0.070	<0.050	<0.050	<0.050	<0.15	0.45	<0.070	<0.050	<0.15	0.18	78.0	20,000
	2/14/2012	7.0	140	-106	970.1	<0.10	<0.10	5.1	1.6	213	0.017 J	<0.050	<0.050	<0.050	<0.15	0.030 J	<0.070	<0.050	<0.15	0.10	27	14,000

Table 4

Monitoring Well Cumulative Enhanced Anaerobic Bioremediation-
MNA Indicator Parameters
Quarter 1 - 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	pH	Dissolved Oxygen	Oxidation Reduction Potential	Conductivity	Nitrogen, Nitrate	Nitrogen, Nitrite	Iron	Total Organic Carbon	Sulfate	Acetic Acid	Butyric Acid	Hexanoic Acid	i-Hexanoic Acid	i-Pentanoic Acid	Lactic Acid and HIBA	Pentanoic Acid	Propionic Acid	Pyruvic Acid	Ethane	Ethene	Methane
		-	ug/L	mV	uS/cm	mg/L														ug/l		
		FIELD MEASUREMENTS				LAB RESULTS																
MMW-9S	9/20/2007	7.7	3,000	260	1500.0																	
	12/12/2007		9,300	180	1300.0																	
	3/21/2008		44	918	5173.4					230												
	6/6/2008	6.9			1223.7	<0.10				154	3.0	<0.070	<0.10	<0.10	<0.070	0.28	<0.070	1.1	0.22	0.10	0.48	4,400
	9/11/2008					<0.10				152												
	11/20/2008	6.5	419	558	4141.3	<0.10				98.5												
	3/16/2009	6.8	4,601	222	3678.1	<0.10				74.2												
	6/16/2009				12.0	<0.10				237												
	8/5/2009					<0.10				208												
	11/2/2009	6.6	1,861	35	1396.4	<0.10				135										0.13	160	6,200
	2/3/2010	6.6	5,596	11	1372.2	<0.10				116										0.12	150	9,400
	2/4/2010																					
	4/22/2010	6.6	1,456	-61	2012.4	<0.10				94.0												
	7/21/2010	6.6	3,403	-60	1485.9	<0.10				125												
	10/12/2010	6.6	564	-308	1540.1	<0.10				122												
	1/19/2011	6.9	2,815		1500.3	0.22				83.2	<0.070	<0.050	<0.050	<0.050	<0.15	0.21 B	<0.070	<0.050	<0.15			
	5/4/2011	6.7	235	-255	1878.6	<0.10	<0.10	6.0	3.8	189	0.094	<0.050	<0.050	<0.050	<0.15	0.34	<0.070	0.06	<0.15	1.5	82.0	12,000
	7/27/2011	6.5	434	-187	1835.3	<0.10	<0.10	3.2	1.7	217	<0.070	<0.050	<0.050	<0.050	<0.15	0.27	<0.070	<0.050	<0.15	1.6	48.0	16,000
	10/24/2011	6.6	180	-40	2035.0	<0.10	<0.10	2.3	2.6	164	0.078	<0.050	<0.050	<0.050	<0.15	0.15	<0.070	0.075	<0.15	22.0	1.9	7,000
	2/13/2012	6.7	103	-180	1671.0	<0.10	0.14	3.8	4.4	125	0.013 J	<0.050	<0.050	<0.050	<0.15	0.034 J	<0.070	<0.050	<0.15	2.0	65.0	12,000
MMW-10S	9/19/2007	7.4	1,900	260	1400.0																	
	12/12/2007		6,000	250	1300.0																	
	3/21/2008		109		5514.0																	
	6/6/2008	6.7	230		1604.6																	
	9/10/2008	6.5	308		4517.3																	
	11/20/2008	6.6	545	585	4320.5																	
	3/16/2009	6.9	5,003	159	3510.4																	
	11/2/2009	6.6	1,970	-15	1683.6																	
	2/3/2010	6.6	5,474	-43	1547.1																	
	4/22/2010	6.6	1,396	-91	1835.1																	
	7/20/2010	6.6	2,423	-56	1806.6																	
	10/12/2010	6.6	951	-261	1852.2																	
	1/19/2011	6.9	2,654		1523.3																	
	5/4/2011	6.7	243	-247	1630.2	<0.10	<0.10	4.5	3.0	368	0.083	<0.070	<0.10	<0.10	<0.070	0.40	<0.070	0.063	<0.15	0.028	14.0	9,700
	7/27/2011	6.6	513	-158	1,734.6	<0.10	<0.10	3.0	3.4	414	<0.070	<0.070	<0.10	<0.10	0.150	0.28	<0.070	0.049	<0.15	0.15	29.0	13,000
	10/19/2011	6.7	200	-70	1,646.0	<0.10	<0.10	2.9	2.6	130	<0.070	<0.070	<0.10	<0.10	<0.070	0.12	<0.070	0.069	<0.15	0.084	12.0	10,000
	2/14/2012	6.7	169	-81	1,730.0	<0.10	<0.10	4.9	4.3	285	0.016 J	<0.070	<0.050	<0.050	<0.15	0.034 J	<0.070	<0.050	<0.15	0.11	21	12,000
MMW-11S	9/19/2007	7.6	2,300	220	880.0																	
	12/13/2007			390	720.0																	
	3/20/2008		200		3617.6					93.6												
	6/5 & 6/6/2008	7.1			723.8	<0.10				87.5	0.19	<0.070	<0.10	<0.10	<0.070	0.23	<0.070	<0.070	<0.070	0.26	0.21	18.0
	9/10 & 9/11/2008	6.8	338		0.3	<0.10				147												
	11/20/2008	7.0	782	518	2954.9	<0.10				138												
	3/16/2009	6.6	2,540	738	2887.2	5.6				187												
	6/16/2009					<0.10				202												
	8/5/2009	7.0	2,457	127	951.5	<0.10				176												
	11/2/2009	6.9	1,847	40	981.8	1.2				159										0.035	0.044	2.9
	2/3/2010	6.9	4,936	-24	1043.2	3.6				159										0.013	0.026	0.26
	4/22/2010	7.0	1,807	103	959.6	4.1				192												
	7/21 & 7/22/2010	7.0	1,751	50	1037.3	0.20				216												
	10/12/2010	7.0	301	-217	954.2	0.48				108												
	1/19/2011	6.7	305		975.5	5.1				173	<0.070	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15			
	4/30/2011	7.2	4,373	-30	850.1																	
	7/26/2011	6.9	250	-169	764.5																	
	10/21/2011	7.0	260	140	1108.0																	
	2/14/2012	7.0	1,601	70	997.1																	
MMW-11D	3/16/2009	6.6	2,969	715	2745.4																	
	8/5/2009	7.1	2,358	41	830.1																	
	11/2/2009	7.0	2,495	-23	889.3																	
	2/3/2010	6.9	4,812	-1	939.2																	
	4/22/2010	7.0	1,325	96	945.6																	
	7/21/2010	7.0	1,820	36	960.9																	
	10/12/2010	7.0	209	-221	954.0																	
	1/19/2011	6.7	292		885.7																	
	4/30/2011	7.0	349	-123	906.1																	
	7/26/2011	6.8	394	-156	689.5																	
	10/21/2011	7.1	200	0	917.0																	
	2/14/2012	7.0	266	40	997.5																	

Table 4

Monitoring Well Cumulative Enhanced Anaerobic Bioremediation-
MNA Indicator Parameters
Quarter 1 - 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	pH	Dissolved Oxygen	Oxidation Reduction Potential	Conductivity	Nitrogen, Nitrate	Nitrogen, Nitrite	Iron	Total Organic Carbon	Sulfate	Acetic Acid	Butyric Acid	Hexanoic Acid	i-Hexanoic Acid	i-Pentanoic Acid	Lactic Acid and HIBA	Pentanoic Acid	Propionic Acid	Pyruvic Acid	Ethane	Ethene	Methane
		-	ug/L	mV	uS/cm	mg/L														ug/l		
		FIELD MEASUREMENTS				LAB RESULTS																
MMW-12S	3/16/2009	6.6	4,079	606	2817.7																	
	11/2/2009	6.9	1,885	116	948.2																	
	2/3/2010	6.8	5,624	251	1038.5																	
	4/20/2010	7.0	234	170	1046.2																	
	7/20/2010	7.0	10,359	160	932.5																	
	10/12/2010	6.9	349	-155	1026.0																	
	1/18/2011	6.6	640		1050.5																	
	4/30/2011	6.9	296	-118	1075.0																	
	7/26/2011	6.8	400	-114	1006.6																	
	10/18/2011	6.5	180	220	1063.0																	
	2/14/2012	7.0	352	57	1089.0																	
MMW-13D	3/16/2009	6.6	3,463	662	2420.6																	
	8/5/2009	7.2	2,502	-49	867.0																	
	11/2/2009	7.2	1,790	-61	664.9																	
	2/3/2010	7.2	5,090	-75	700.2																	
	4/22/2010	7.1	1,743	-55	828.3																	
	7/20/2010	7.2	1,906	-38	823.8																	
	10/12/2010	7.3	116	-255	759.8																	
	1/19/2011	6.6	230		697.0																	
	4/30/2011	7.2	340	-128	877.9																	
	7/26/2011	7.0	1,428	-204	913.7																	
	10/18/2011	7.3	180	-100	789.9																	
	2/14/2012	7.2	135	-82	814.1																	
MMW-14D	3/21/2008		78	895	5197.5																	
	6/5/2008	7.1			1003.5																	
	9/11/2008	7.0	14		0.4																	
	11/19/2008	6.9	1,070																			
	3/18/2009	6.7	850	780	2190.7																	
	8/5/2009	7.1	2,440	-83	763.8																	
	11/2/2009	7.1	1,820	1	782.7																	
	2/3/2010	7.0	5,793	303	779.2																	
	4/20/2010	7.1	231	111	750.8																	
	7/20/2010	7.1	4,430	-55	803.6																	
	10/12/2010	7.1	221	-224	820.2																	
	1/18/2011	6.7	247		812.7																	
	4/30/2011	7.2	397	-150	738.4																	
	7/26/2011	7.0	262	-183	827.0																	
	10/19/2011	6.8	240	-50	844.7																	
	2/14/2012	7.2	793	-62	815.2																	
MMW-15S	2/15/2012	7.1	426	38	935.4																	
MMW-15D	2/15/2012	7.3	422	-94	998.1																	
MMW-P-01	3/20/2008		21		5619.1																	
	6/7/2008		1,252		0.4																	
	11/19/2008	6.7	221																			
	3/17/2009	6.8	929	468	3419.4																	
	11/3/2009	6.7	1,774	-48	1824.2																	
	2/4/2010	6.9	697	-132	1530.4																	
	4/22/2010	7.1	1,376	-255	1493.8																	
	7/7/2010										2.5	<0.05	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15			
	7/21/2010	6.8	2,113	-130	1421.3																	
	10/14/2010	6.8	203	-164	1382.5																	
	1/20/2011	6.8	1,354		1609.8																	
	5/5/2011	6.7	1,003	-176	1977.6	1.9	0.15	2.4	6.3	285	0.10	<0.070	<0.10	<0.10	<0.070	0.45	<0.070	0.071	<0.15	0.12	240	3,000
	7/28/2011	6.7	628	-161	1508.8	<0.10	<0.10	3.2	3.4	145	<0.070	<0.050	<0.050	<0.050	<0.15	0.28	<0.070	0.050	<0.15	0.76	670	13,000
	10/24/2011	6.8	120	-90	1694.0	<0.10	<0.10	5.0	2.6	81.5	1.0	<0.050	<0.050	<0.050	<0.15	0.82	<0.070	0.088	<0.15	0.72	1,600	12,000
	2/13/2012	6.8	89	-200	1737.0	<0.10	<0.10	2.9	3.8	56.0	0.021 J	<0.050	<0.050	<0.050	<0.15	0.047 J	<0.070	<0.050	<0.15	0.65	1,700	14,000
MMW-P-02	3/20/2008		155		4637.4																	
	6/7/2008		1,180		4112.8																	
	9/11/2008	6.9	101		0.3																	
	11/19/2008	6.9	574																			
	3/17/2009	6.7	852	858	3641.0																	
	11/3/2009	7.0	2,066	98	1006.2																	
	2/4/2010	6.8	693	272	1324.1																	
	4/22/2010	7.0	148	256	1346.3																	
	7/21/2010	6.9	1,806	-10	1121.8																	
	10/13/2010	6.9	281	-209	1089.7																	
	1/19/2011	6.7	1,617		1256.8																	
	5/4/2011	6.9	321	-245	1263.9	<0.10	<0.10	1.8	1.7	33.2	0.13	<0.070	<0.10	<0.10	<0.070	0.32	<0.070	0.076	<0.15	1.1	1,600	17,000
	7/27/2011	6.9	322	-225	1083.8	<0.10	<0.10	2.5	1.0	190	<0.070	<0.050	<0.050	<0.050	<0.150	0.28	<0.070	<0.050	<0.15	1.2	240	4,300
	10/19/2011	6.9	210	-50	1174.0	<0.10	<0.10	2.2	1.4	84.2	0.08	<0.050	<0.050	<0.050	<0.150	0.44	<0.070	0.069	<0.15	1.4	670	13,000
	2/13/2012	6.8	1055	-5	1285.0	0.12	<0.10	3.0	3.3	85.5	0.43	<0.050	<0.050	<0.050	<0.150	0.027 J	<0.070	<0.050	<0.15	1.4	140	12,000

Table 4

Monitoring Well Cumulative Enhanced Anaerobic Bioremediation-
MNA Indicator Parameters
Quarter 1 - 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	pH	Dissolved Oxygen	Oxidation Reduction Potential	Conductivity	Nitrogen, Nitrate	Nitrogen, Nitrite	Iron	Total Organic Carbon	Sulfate	Acetic Acid	Butyric Acid	Hexanoic Acid	i-Hexanoic Acid	i-Pentanoic Acid	Lactic Acid and HIBA	Pentanoic Acid	Propionic Acid	Pyruvic Acid	Ethane	Ethene	Methane
		-	ug/L	mV	uS/cm	mg/L														ug/l		
		FIELD MEASUREMENTS				LAB RESULTS																
MMW-P-03S	3/20/2008				5093.3					86.8												
	6/5, 6/6 & 6/7/2008		1,176		4004.7	<0.10				84.9	31.0	0.45	0.14	<0.10	0.12	1.400	1.200	31.0	0.37	5.3	0.82	59.0
	9/11/2008					<0.10				117												
	11/19/2008	6.8	127			<0.10				43.8												
	3/17/2009	6.7	812	809	3372.1	<0.10				42.1												
	6/17/2009					<0.10				<5.0												
	8/6/2009					<0.10				9.4												
	11/3/2009	6.9	1,783	-81	1162.9	<0.10				8.1										2.1	7.1	17,000
	2/3 & 2/4/2010	6.9	751	-63	1303.5	<0.10				38.4										0.63	11.0	18,000
	4/22/2010	6.9	170	-63	970.5	<0.10				18.8												
	7/21/2010	6.8	2,016	-72	1300.2	<0.10				<5.0												
	10/13/2010	6.9	270	-274	1333.0	<0.10				21.4												
	1/19/2011	6.8	1,417		905.3																	
	5/4/2011	6.8	234	-287	1227.4	<0.10	<0.10	2.8	4.2	<5.0	4.1	<0.070	<0.10	<0.10	<0.070	0.37	<0.070	0.23	<0.15	9.6	410	21,000
	7/27/2011	6.8	412	-175	1290.2	<0.10	<0.10	5.0	2.3	51.4	0.06	<0.050	<0.050	<0.050	<0.150	0.31	<0.070	0.051	<0.15	0.8	1,200	14,000
	10/19/2011	6.8	190	-90	1416.0	<0.10	<0.10	3.2	2.0	35.5	0.08	<0.050	<0.050	<0.050	<0.150	0.34	<0.070	0.071	<0.15	2.0	930	17,000
	2/13/2012	6.8	171	-44	924.0	<0.10	<0.10	2.5	2.9	39.8	0.25	<0.050	<0.050	<0.050	<0.150	0.045 J	<0.070	<0.050	<0.15	0.5	170	14,000
MMW-P-03D	3/20/2008		56		1718.8																	
	6/5 & 6/6/2008					<0.10				46.0	53.0	0.43	<0.10	<0.10	0.23	1.2	0.380	24.0	0.85	0.39	0.94	1,200
	9/11/2008					<0.10				22.3												
	11/19/2008					<0.10				<5.0												
	3/17/2009	6.7	806	757	3253.2	<0.10				<5.0												
	6/17/2009					<0.10				6.8												
	8/6/2009					<0.10				32.1												
	11/3/2009	6.8	1,791	-48	1406.3	<0.10				<5.0										2.2	4.8	17,000
	2/4/2010	6.7	661	64	1360.5	<0.10				<5.0										2.7	8.3	25,000
	4/22/2010	6.9	143	-16	1143.8	<0.10				<5.0												
	7/21/2010	6.8	2,235	-125	1084.8	<0.10				6.8												
	10/13/2010	6.7	269	-246	1358.0	<0.10				<5.0												
	1/19/2011	6.3	2,351		1149.7	<0.10				25.8	0.60	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15			
	5/4/2011	6.8	267	-294	1194.9	<0.10	<0.10	2.9	3.8	35.5	0.22	<0.070	<0.10	<0.10	<0.070	0.48	<0.070	0.084	<0.15	0.40	110	14,000
	7/27/2011	6.8	367	-192	1284.7	<0.10	<0.10	5.3	1.8	25.6	0.34	<0.050	<0.050	<0.050	<0.15	0.25	<0.070	0.067	<0.15	25.0	1,400	26,000
	10/18/2011	6.9	150	-150	1377.0	<0.10	<0.10	2.9	9.5	10.7	18.0	0.13	<0.050	<0.050	<0.15	<0.10	<0.070	1.0	<0.15	5.8	2,200	20,000
	2/13/2012	6.9	200	-26	1158.0	<0.10	<0.10	3.1	10.1	<5.0	18	0.092	<0.050	<0.050	0.084 J	0.46 J	<0.070	0.50	<0.15	5.0	2,400	24,000
MMW-P-04	3/20/2008		233		0.3																	
	6/5/2008	6.9			1416.9																	
	9/11/2008	7.0			0.5																	
	11/19/2008	7.0	811																			
	2/12/2010	6.9	1,005	199	827.4																	
	4/21/2010	7.0	237	-47	808.1																	
	7/22/2010	6.7	3,591	-40	964.2																	
	10/13/2010	6.7	869	-203	1025.3																	
	5/5/2011	7.1	1,389	-185	1036.9	1.2	0.18	0.0	43.0	26.9	2.3	0.10	0.64	0.24	<0.070	1.4	<0.070	0.46	<0.15	0.044	11.0	10,000
	7/28/2011	6.7	1,011	-174	1363.1	<0.10	<0.10	4.7	18.1	<0.10	24	0.22	<0.050	<0.050	<0.15	<1.0	<0.070	1.7	<0.15	0.44	570	18,000
	10/24/2011	6.9	520	-150	874.0	<0.10	<0.10		11.6	39.8	5.0	0.11	<0.050	<0.050	<0.15	0.3	<0.070	0.31	<0.15	1.7	26.0	18,000
	2/17/2012	6.8	990	-200	694.8	<0.10	<0.10	2.5	5.5	<5.0	1.6	0.072	<0.050	<0.050	<0.15	0.2	<0.070	0.33	<0.15	0.2	6.4	19,000
MMW-P-05	3/20/2008				6086.2																	
	6/5/2008	6.9			1150.6																	
	9/11/2008	7.1			0.3																	
	11/19/2008	6.8	870	3,652																		
	3/17/2009	6.6	864	838	2669.5																	
	11/3/2009	7.0	1,842	-70	1036.9																	
	2/4/2010	7.0	724	-83	787.2																	
	4/22/2010	7.0	1,663	-26	1003.1																	
	7/21/2010	6.9	2,067	-80	1101.5																	
	10/13/2010	6.9	250	-240	917.8																	
	1/20/2011	6.7	174		987.9																	
	4/30/2011	7.0	209	-257	1036.9															0.025	58.0	9,900
	7/27/2011	6.8	607	-184	1436.7															0.23	1,300	15,000
	10/19/2011	7.1	230	-120	559.7															0.12	93.0	3,700
	2/13/2012	7.0	112	-286	822.8	<0.10	<0.10	1.9	19.0	59.5	4.2	0.066	<0.050	<0.050	0.055 J	<1.0	<0.070	0.26 J	<0.15	0.20	63	11,000

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Well ID	Sample Date	pH	Dissolved Oxygen	Oxidation Reduction Potential	Conductivity	Nitrogen, Nitrate	Nitrogen, Nitrite	Iron	Total Organic Carbon	Sulfate	Acetic Acid	Butyric Acid	Hexanoic Acid	i-Hexanoic Acid	i-Pentanoic Acid	Lactic Acid and HIBA	Pentanoic Acid	Propionic Acid	Pyruvic Acid	Ethane	Ethene	Methane
		-	ug/L	mV	uS/cm	mg/L														ug/l		
		FIELD MEASUREMENTS				LAB RESULTS																
MMW-P-06	3/20 & 3/21/2008		29	900	4293.5					62.6												
	6/5 & 6/6/2008	7.1			980.4	<0.10				30.5	60.0	1.7	<0.10	<0.10	0.21	1.4	1.2	29.0	0.44	0.47	0.54	290
	9/11/2008	6.8			0.7	<0.10				39.1												
	11/19/2008	6.9	715			<0.10				130												
	3/17/2009	6.7	1,063	710	3884.4	<0.10				9.4												
	6/17/2009					<0.10				61.7												
	8/6/2009					<0.10				29.7												
	11/3/2009	6.9	1,631	-105	1276.4	<0.10				73.2										1.9	200	18,000
	2/4/2010	7.0	725	-86	927.1	<0.10				10.3										0.66	300	15,000
	4/22/2010	6.9	1,405	-106	1129.2	0.10				15.3												
	7/21/2010	7.0	2,001	-112	1448.3	<0.10				38.7												
	10/14/2010	6.9	162	-121	1194.9																	
	1/20/2011	6.8	1,062		1263.5	<0.10				65.8	<0.070	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15			
	5/4/2011	6.9	225	-296	1338.1															0.51	2,400	17,000
	7/28/2011	6.9	812	-198	1302.6															0.92	3,700	20,000
	10/24/2011	6.9	160	-90	1169.0															0.78	2,500	14,000
	2/13/2012	6.9	141	-213	1132.0	<0.10	<0.10	2.0	3.9	38.0	0.370	<0.050	<0.050	<0.050	<0.15	0.048 J	<0.070	<0.050	<0.15	0.87	1,800	17,000
MMW-P-07	3/21/2008		9	937	6055.8																	
	6/7/2008		1,200		5032.7																	
	9/11/2008	6.7			0.7																	
	11/19/2008	6.5	846																			
	3/17/2009	6.8	880	745	4022.3																	
	11/3/2009	6.6	1,745	-72	2224.1																	
	2/4/2010	6.7	721	-92	1800.3																	
	4/22/2010	6.7	1,400	-154	1924.8																	
	7/22/2010	6.6	3,369	-55	1605.5																	
	10/14/2010	6.6	359	-148	2187.6																	
	1/20/2011	6.7	1,377		1347.0																	
	5/4/2011	6.7	349	-242	1632.1	<0.10	<0.10	3.0	3.9	97.5	2.0	<0.050	<0.050	<0.050	<0.15	0.50	<0.070	0.15	<0.15	0.049	520	6,000
	7/28/2011	8.3	765	-161	2098.5	<0.10	<0.10	3.8	4.0	33.1	3.9	0.14	<0.050	<0.050	<0.15	0.98	<0.070	0.23	<0.15	0.12	480	8,100
	10/24/2011	6.7	110	-60	1492.0	<0.10	<0.10	3.8	2.1	31.6	0.078	<0.050	<0.050	<0.050	<0.15	0.46	<0.070	0.071	<0.15	0.31	330	12,000
	2/13/2012	6.8	541	-167	1754.0	<0.10	<0.10	2.9	3.3	82.5	0.52	0.041 J	<0.050	<0.050	<0.15	0.023 J	<0.070	<0.050	<0.15	0.26	190	12,000
MMW-P-08	3/20 & 3/21/2008	2.3	245		3645.7					129												
	6/5 & 6/6/2008	7.0			1118.2	0.12				<5.0	0.12	<0.070	<0.10	<0.10	<0.070	0.22	<0.070	<0.070	<0.070	0.30	2.0	2,800
	9/10 & 9/11/2008	7.3	467		0.3	<0.10				<5.0												
	11/19/2008	7.0	1,129			<0.10				7.2												
	3/17/2009	6.8	876	674	4083.5	<0.10				5.1												
	6/17/2009					<0.10				5.0												
	8/6/2009					<0.10				38.3												
	11/3/2009	6.5	1,676	-74	1547.6	<0.10				23.6										0.081	320	8,000
	2/4/2010	6.6	631	-86	1629.4					<5.0										0.075	640	17,000
	4/22/2010	6.7	1,408	-202	1804.3	<0.10				8.5												
	7/22/2010	6.8	3,994	-70	939.3	<0.10				34.0												
	10/14/2010	6.7	395	-175	1923.7	<0.10				<5.0												
	1/20/2011	6.8	1,907		1965.5	<0.10				21.0	19.0	0.27	<0.050	<0.050	<0.15	<0.10	<0.070	2.1	<0.15			
	5/4/2011	6.8	221	-272	920.7	<0.10	<0.10	3.0	6.2	44.5	0.16	0.10	<0.050	<0.050	<0.15	0.26	<0.070	0.077	<0.15	0.34	430	6,800
	7/27/2011	6.5	597	-146	2323.7	<0.10	<0.10	3.8	3.0	185	0.096	<0.050	<0.050	<0.050	<0.15	0.27	<0.070	<0.050	<0.15	0.098	500	8,400
	10/24/2011	6.7	110	-90	1308.0	<0.10	<0.10	2.8	2.9	59.0	0.10	<0.050	<0.050	<0.050	<0.15	0.16	<0.070	0.074	<0.15	0.28	210	3,200
	2/13/2012	6.7	81	-220	1663.0	<0.10	<0.10	2.9	5.5	52.0	0.040 J	<0.050	<0.050	<0.050	<0.15	0.020 J	<0.070	<0.050	<0.15	3.4	220	8,000
MMW-P-09S	3/20/2008	2.5	230		3920.3	1.5				78.7												
	6/5 & 6/6/2008	7.0			963.6	5.1				161	3.5	<0.070	0.26	<0.10	<0.070	0.29	0.14	5.3	<0.070	0.033	<0.025	8.0
	9/10 & 9/11/2008	7.1	200		0.3	<0.10				114												
	11/19/2008	7.1	1,108			<0.10				133												
	3/17/2009	6.5	1,019	858	2249.3	0.72				82.4												
	6/16/2009					1.1				64.0												
	8/7/2009					0.60				45.7												
	11/3/2009	6.9	2,892	174	810.2	0.78				87.2										<0.025	0.037	6.5
	2/3 & 2/4/2010	6.9	3,997	-51	701.4	0.58				85.8										<0.025	<0.025	4.7
	4/22/2010	7.1	2,699	69	640.1	0.62				44.8												
	7/22/2010	7.0	5,477	27	1077.9	0.80				92.4												
	10/13/2010	6.9	1,026	-105	725.6	0.10				57.4												
	1/19/2011	6.6	1,732		711.5	0.10				106	<0.070	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15			
	4/30/2011	7.1	5,228	0	587.1																	
	7/26/2011	6.8	1,473	-85	882.4																	
	10/18/2011	6.9	760	160	850.9																	
	2/15/2012	7.0	2,621	164	786.3																	

Table 4

Monitoring Well Cumulative Enhanced Anaerobic Bioremediation-
MNA Indicator Parameters
Quarter 1 - 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	pH	Dissolved Oxygen	Oxidation Reduction Potential	Conductivity	Nitrogen, Nitrate	Nitrogen, Nitrite	Iron	Total Organic Carbon	Sulfate	Acetic Acid	Butyric Acid	Hexanoic Acid	i-Hexanoic Acid	i-Pentanoic Acid	Lactic Acid and HIBA	Pentanoic Acid	Propionic Acid	Pyruvic Acid	Ethane	Ethene	Methane
		-	ug/L	mV	uS/cm	mg/L														ug/l		
		FIELD MEASUREMENTS				LAB RESULTS																
MMW-P-09D	3/20/2008	1.4	107		8894.3																	
	6/7/2008		443		3784.4																	
	11/19/2008	6.9	1,106		NS																	
	3/17/2009	6.6	819	834	2616.0																	
	11/3/2009	7.1	1,717	-59	897.8																	
	2/3/2010	7.1	4,243	-78	862.0																	
	4/22/2010	7.1	1,360	-64	884.7																	
	7/22/2010	7.2	3,702	-59	929.0																	
	10/13/2010	7.1	694	-282	903.0																	
	1/19/2011	6.1	1,079		788.7																	
	4/30/2011	7.2	347	-184	851.5																	
	7/26/2011	7.0	567	-198	919.1																	
	10/21/2011	7.2	200	-90	855.0																	
	2/15/2012	7.2	283	-103	830.4																	
MMW-P-10S	3/20/2008	1.7			4589.7	0.52				50.8												
	6/5, 6/6 & 6/7/2008		1,078		3508.2	<0.10				71.8	0.11	<0.070	<0.10	<0.10	<0.070	0.21	<0.070	<0.070	<0.070	0.16	1.3	50.0
	9/11/2008	7.0	45		0.4	<0.10				111												
	11/19/2008	6.9	1,034			<0.10				34.4												
	3/17/2009	6.8	863	653	3958.2	<0.10				54.6												
	6/17/2009					<0.10				9.4												
	8/6/2009					<0.10				<5.0												
	11/3/2009	6.8	1,566	-112	705.5	<0.10				9.5										0.77	27.0	2,300
	2/4/2010	6.7	614	-93	1663.5	<0.10				69.2										1.7	230	14,000
	4/22/2010	7.0	1,564	-200	971.3	<0.10				15.8												
	7/21/2010	6.9	1,868	-105	900.8	<0.10				<5.0												
	10/14/2010	6.6	404	-154	1681.7	<0.10				85.8												
	1/20/2011	6.7	1,102		1009.0	0.12				29.2	4.7	0.15	<0.050	<0.050	<0.15	<0.10	<0.070	0.26	<0.15			
	5/5/2011	7.5	101	-341	329.6	<0.10	<0.10	1.8	2.7	17.6	0.16	<0.050	<0.050	<0.050	<0.15	0.37	<0.070	<0.050	<0.15	2.2	6.1	5,800
	7/27/2011	6.7	543	-170	1583.3	<0.10	<0.10	3.2	3.7	87.9	<0.070	<0.050	<0.050	<0.050	<0.15	0.21	<0.070	0.052	<0.15	1.4	120	13,000
	10/21/2011	6.9	110	-90	592.0	<0.10	<0.10	2.1	1.7	13.9	0.078	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	0.070	<0.15	1.8	22.0	4,300
	2/13/2012	6.9	112	-221	653.0	<0.10	<0.10	3.1	2.3	17.1	0.18	<0.050	<0.050	<0.050	<0.15	0.13	<0.070	<0.050	<0.15	2.8	15	9,000
MMW-P-10D	6/7/2008	1.7	1,134		4183.6																	
	3/17/2009	6.6	838	574	2733.7																	
	11/3/2009	6.8	1,699	-98	1104.1																	
	2/4/2010	6.8	619	-101	992.6																	
	4/22/2010	7.1	1,371	-192	857.0																	
	7/22/2010	6.8	2,694	-27	913.1																	
	10/14/2010	6.7	351	-165	1341.4																	
	1/20/2011	6.7	1,155		1338.7						0.072	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15			
	5/5/2011	7.1	160	-300	597.7	<0.10	<0.10	1.8	2.8	43.0	0.10	<0.050	<0.050	<0.050	<0.15	0.19	<0.070	0.071	<0.15	1.2	200	18,000
	7/27/2011	6.8	539	-162	1073.2	<0.10	<0.10	5.0	2.1	64.1	<0.070	<0.050	<0.050	<0.050	<0.15	0.26	<0.070	<0.050	<0.15	1.8	530	23,000
	10/21/2011	6.9	160	-80	1039.0	<0.10	<0.10	2.3	1.7	55.0	0.10	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	0.078	<0.15	1.3	580	20,000
	2/13/2012	6.8	210	-184	1233.0	<0.10	<0.10	3.75	3.7	112	0.014 J	0.036 J	<0.050	<0.050	<0.15	0.025 J	<0.070	0.011 J	<0.15	2.6	260	16,000
MWW-P-11S	10/24/2011	7.0	490	-100	802.3	<0.10	<0.10	0.2	1.7	166	0.082	<0.050	<0.050	<0.050	<0.15	0.21	<0.070	0.070	<0.15	6.2	0.097	690
	2/15/2012	7.0	578	-58	913.2	0.60	<0.10	1.7	1.9	132	0.013 J	<0.050	<0.050	<0.050	<0.15	0.072 J	<0.070	<0.070	<0.15	0.15	2.8	1,600
MMW-P-11DR	2/15/2012	7.0	134	-104	1244.0	<0.10	<0.10	3.8	2.0	275	0.031 J	<0.050	<0.050	<0.050	<0.15	0.040 J	<0.070	<0.070	<0.15	1.4	6.8	3,800
MMW-P-12S	10/24/2011	7.1	240	-80	1106.0	<0.10	<0.10	2.1	1.4	156	<0.070	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	0.070	<0.15	1.3	0.83	24
	2/15/2012	7.1	267	-76	1092.0	<0.10	<0.10	3.0	1.7	162	0.010 J	<0.050	<0.050	<0.050	<0.15	0.27	<0.070	<0.070	<0.15	0.92	0.65	94
MMW-P-12D	10/24/2011	7.2	210	-100	1070.0	<0.10	<0.10	2.1	1.9	124	0.22	<0.050	<0.050	<0.050	<0.15	1.2	<0.070	0.13	<0.15	1.5	0.77	26
	2/15/2012	7.1	216	-94	1227.0	<0.10	<0.10	2.0	1.9	164	0.0075 J	<0.050	<0.050	<0.050	<0.15	0.040 J	<0.070	<0.070	<0.15	1.2	0.7	18
MMW-P-13S	10/24/2011	7.0	1,350	70	925.3	0.75	<0.10	0.0	1.4	195	0.09	<0.050	<0.050	<0.050	<0.15	0.34	<0.070	0.070	<0.15	0.18	0.18	3.8
	2/16/2012	7.0	8,885	171	550.3																	
MMW-P-13D	10/24/2011	7.2	190	-110	909.0	<0.10	<0.10	3.5	1.8	131	0.08	<0.050	<0.050	<0.050	<0.15	0.26	<0.070	<0.050	<0.15	2.0	1.3	20.0
	2/16/2012	7.2	176	-95	8450.7																	
MMW-P-14S	2/16/2012	6.9	2,166	85	822.1																	
MMW-P-14D	2/16/2012	7.1	384	-49	1074.0																	
MW-165D	7/7/2010										<0.070	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15			
*MW-167S	4/21/2010	6.9	173	102	1212.3																	
	4/29/2011	7.1	7,894	75	916.5																	
*MW-167D	6/7/2008	0.1	454		2800.6																	
	4/21/2010	7.2	163	64	803.3																	
	4/29/2011	7.1	251	-116	910.1																	
	2/16/2012	7.1	142	-88	995.8																	
MW-168S	3/20/2008					2.2				251												
	6/5 & 6/6/2008	6.8			1395.0	5.8				190	0.12	<0.070	<0.10	<0.10	<0.070	0.21	<0.070	<0.070	<0.070	0.052	<0.025	17.0
	9/11/2008					1.1				6.8												
	4/22/2010					<0.10				140												

Table 4

Monitoring Well Cumulative Enhanced Anaerobic Bioremediation-
MNA Indicator Parameters
Quarter 1 - 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Sample Date	pH	Dissolved Oxygen	Oxidation Reduction Potential	Conductivity	Nitrogen, Nitrate	Nitrogen, Nitrite	Iron	Total Organic Carbon	Sulfate	Acetic Acid	Butyric Acid	Hexanoic Acid	i-Hexanoic Acid	i-Pentanoic Acid	Lactic Acid and HIBA	Pentanoic Acid	Propionic Acid	Pyruvic Acid	Ethane	Ethene	Methane
		-	ug/L	mV	uS/cm	mg/L														ug/l		
		FIELD MEASUREMENTS				LAB RESULTS																
MW-168D	3/20/2008									109												
	6/5/2008	6.9			1283.4	<0.10				31.0												
	9/11/2008									114												
	11/20/2008	6.9	530	504	3318.8	<0.10				39.3												
	3/17/2009	6.6	871	795	2948.1	<0.10				43.0												
	6/18/2009					<0.10				50.5												
	8/7/2009					<0.10																
	11/3 & 11/4/2009	6.8	7,162	-107	1070.8	<0.10				59.4										0.55	22.0	16,000
	2/4/2010	6.9	469	-74	941.8	<0.10				50.8										0.41	11.0	15,000
	4/21/2010	6.9	190	53	1128.5	<0.10				79.7												
	7/22/2010	6.9	4,678	-53	1194.6	<0.10				82.2												
	10/13/2010	6.8	350	-230	1184.4	<0.10				60.8												
	4/29/2011	6.9	206	-199	1056.7																	
	7/28/2011	6.8	528	-163	1476.1																	
	10/24/2011	6.9	200	-100	1209.0																	
	2/17/2012	6.9	136	-174	1131.0																	
*MW-169S	4/21/2010	7.1	228	-49	848.4																	
	4/29/2011	6.9	3,567	19	975.4																	
*MW-169D	6/7/2008		636		3354.6																	
	4/21/2010	7.1	207	-53	783.5																	
	4/29/2011	7.0	232	-177	880.0																	
*MW-170S	6/3/2008	7.1	187		1437.8																	
	4/21/2010	7.0	162	90	1489.9																	
	4/29/2011	7.0	486	-44	1241.0																	
	2/16/2012	6.9	483	79	1718.0																	
*MW-170D	6/3/2008		7		969.5																	
	7/7/2010										<0.070	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15			
	4/21/2010	7.1	190	87	1148.6																	
	4/29/2011	7.1	282	-142	1039.7																	
	2/16/2012	7.0	243	-74	1898.0																	
*MW-171S	6/7/2008	7.2	626		2714.6																	
	4/29/2011	7.0	4,282	70	798.8																	
*MW-171D	6/7/2008	7.3	415		3178.5																	
	4/21/2010	7.1	171	16	846.3																	
	7/22/2010	7.1	4,607	-47	1001.9																	
	4/29/2011	7.0	377	-164	887.8																	
MMW-C-01	9/10/2008	7.5	477		0.3																	
	11/20/2008	6.8	491	480	2907.9																	
	3/17/2009	6.6	770	693	2702.0																	
	11/3/2009	6.9	1,765	-100	983.5																	
	2/3/2010	6.9	3,818	-59	758.5																	
	4/21/2010	7.1	174	57	723.4																	
	7/22/2010	7.0	5,588	47	792.0																	
	10/13/2010	6.9	3,883	-29	834.6																	
	1/19/2011	6.8	1,522		741.5																	
	5/5/2011	7.4	9,253	-75	463.2	14.7	<0.40	0.0	<1.0	31.2	0.110	<0.050	<0.050	<0.050	<0.15	0.28	<0.070	<0.050	<0.15	<0.025	<0.025	0.14
	7/27/2011	6.8	707	-190	1156.7	0.79	<0.10	0.0	1.8	113	<0.070	<0.050	<0.050	<0.050	<0.15	0.26	<0.070	<0.050	<0.15	0.12	170	12,000
	10/21/2011	6.9	340	-30	756.5	0.79	<0.10	1.2	2.4	89.0	0.10	<0.050	<0.050	<0.050	<0.15	0.37	<0.070	0.066	<0.15	0.081	94	12,000
	2/15/2012	7.0	1,682	-31	780.0	7.7	<0.10	2.0	1.9	73.5	0.0073 J	<0.050	<0.050	<0.050	<0.15	0.034 J	<0.070	<0.050	<0.15	0.22	5.6	10,000
MMW-C-02S	11/20/2008	7.0	931	476	2806.7																	
	3/17/2009	6.6	811	867	2506.9																	
	11/38/09	6.8	1,811	24	784.9																	
	2/3/2010	6.8	3,782	76	778.9																	
	4/21/2010	6.9	177	202	786.3																	
	7/22/2010	6.9	2,670	30	755.8																	
	10/13/2010	6.8	212	-175	717.4																	
	1/19/2011	6.6	1,651		705.0	0.14				76.8	<0.070	<0.050	<0.050	<0.050	<0.15	<0.10	<0.070	<0.050	<0.15			
	4/30/2011	6.9	3,184	-17	689.2																	
	7/27/2011	6.7	694	-146	811.9																	
	10/18/2011	6.8	180	80	779.9																	
	2/15/2012	6.8	156	27	747.9																	
MMW-C-02D	2/15/2012	7.0	165	-105	902.3																	

Notes

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

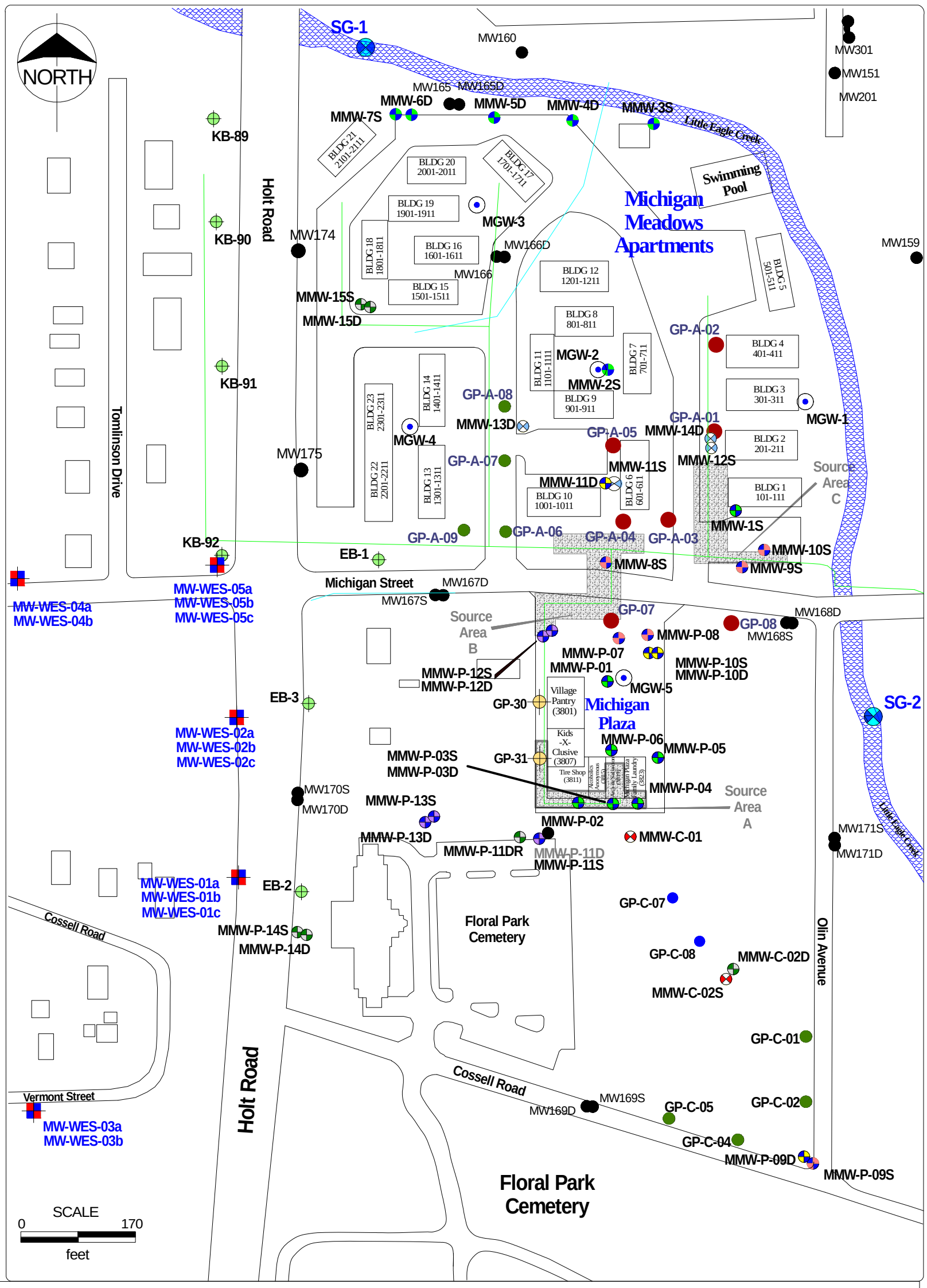
Gray shading indicates that no data is available. Lack of data is generally due to equipment malfunction in the field or absence of the parameter from the quarterly sampling plan.

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

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

FIGURES

Figure 1	Site Plan
Figure 2	Shallow Potentiometric Surface Map – January 18, 2012
Figure 3	Deep Potentiometric Surface Map – January 18, 2012
Figure 4	Groundwater Analytical Results – Shallow (First Quarter 2012)
Figure 5	Groundwater Analytical Results – Deep (First Quarter 2012)
Figure 6	Indicator Compound Trends in Groundwater
Figure 7	Parent and Daughter Products Distribution in Groundwater
Figure 8	Vapor Mitigation System Locations
Figure 9	PCE Concentration Trends & Cumulative Pounds Removed (B1)
Figure 10	PCE Concentration Trends & Cumulative Pounds Removed (B2)
Figure 11	PCE Concentration Trends & Cumulative Pounds Removed (B3)
Figure 12	PCE Concentration Trends & Cumulative Pounds Removed (B4)
Figure 13	PCE Concentration Trends & Cumulative Pounds Removed (B5)
Figure 14	PCE Concentration Trends & Cumulative Pounds Removed (B6)
Figure 15	PCE Concentration Trends & Cumulative Pounds Removed (B7)
Figure 16	PCE Concentration Trends & Cumulative Pounds Removed (B1 through B4)
Figure 17	PCE Concentration Trends & Cumulative Pounds Removed (B5 through B7)



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)
MW-WES-01	EPA Vertical Aquifer Sampling Well Locations (November 2011)
MMW-P-11D	Abandoned Monitoring Well Location
EB-2	Environ Soil Borings
	Sanitary Sewer
	Storm Sewer

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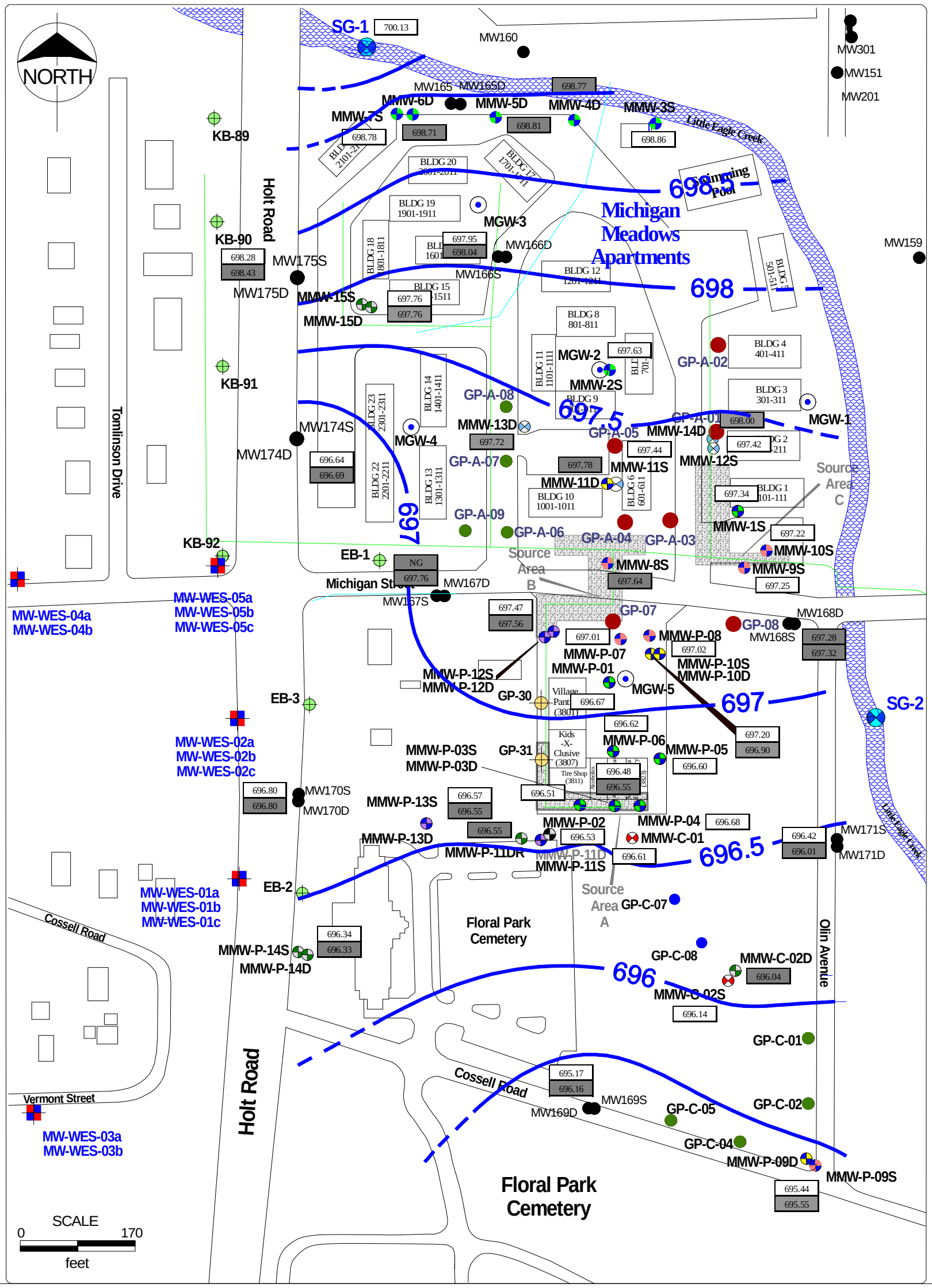
Indianapolis, Indiana 46219-6406
317-630-9060, fax 317-630-9065

Project Number: M01046
Drawing File: Fig_1 SitePlan.skf
Date Prepared: 1/13/2012
Scale: 1"=170'

Site Plan

Michigan Plaza
3801 - 3823 West Michigan Street
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)
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MMW-P-11D	MUNDELL Monitoring Wells (December 2011)
MW-WES-01	EPA Vertical Aquifer Sampling Well 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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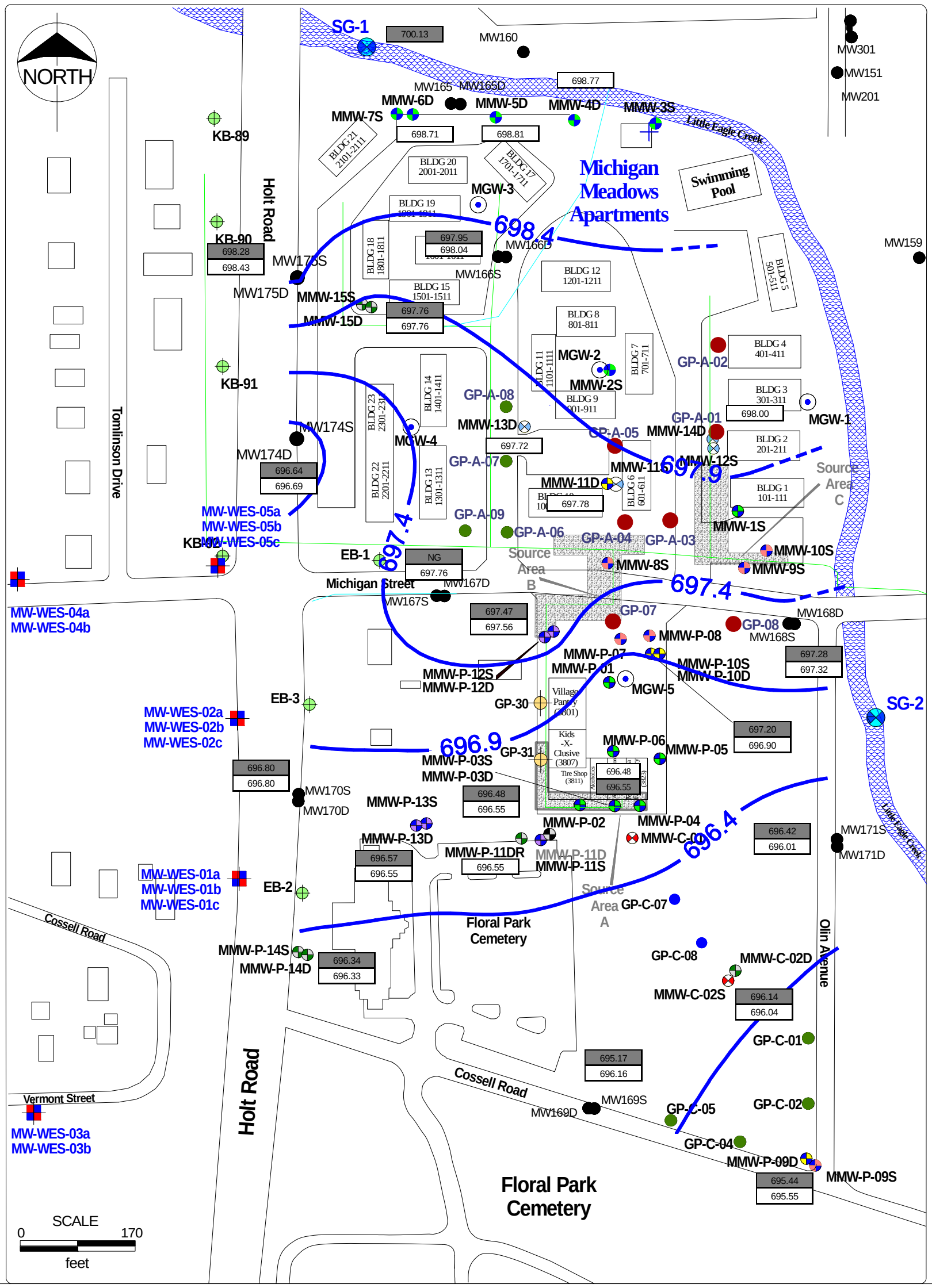
317-630-9060, fax 317-630-9065

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
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)
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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 Deep Potentiometric Surface Map)
NG - Not Gauged

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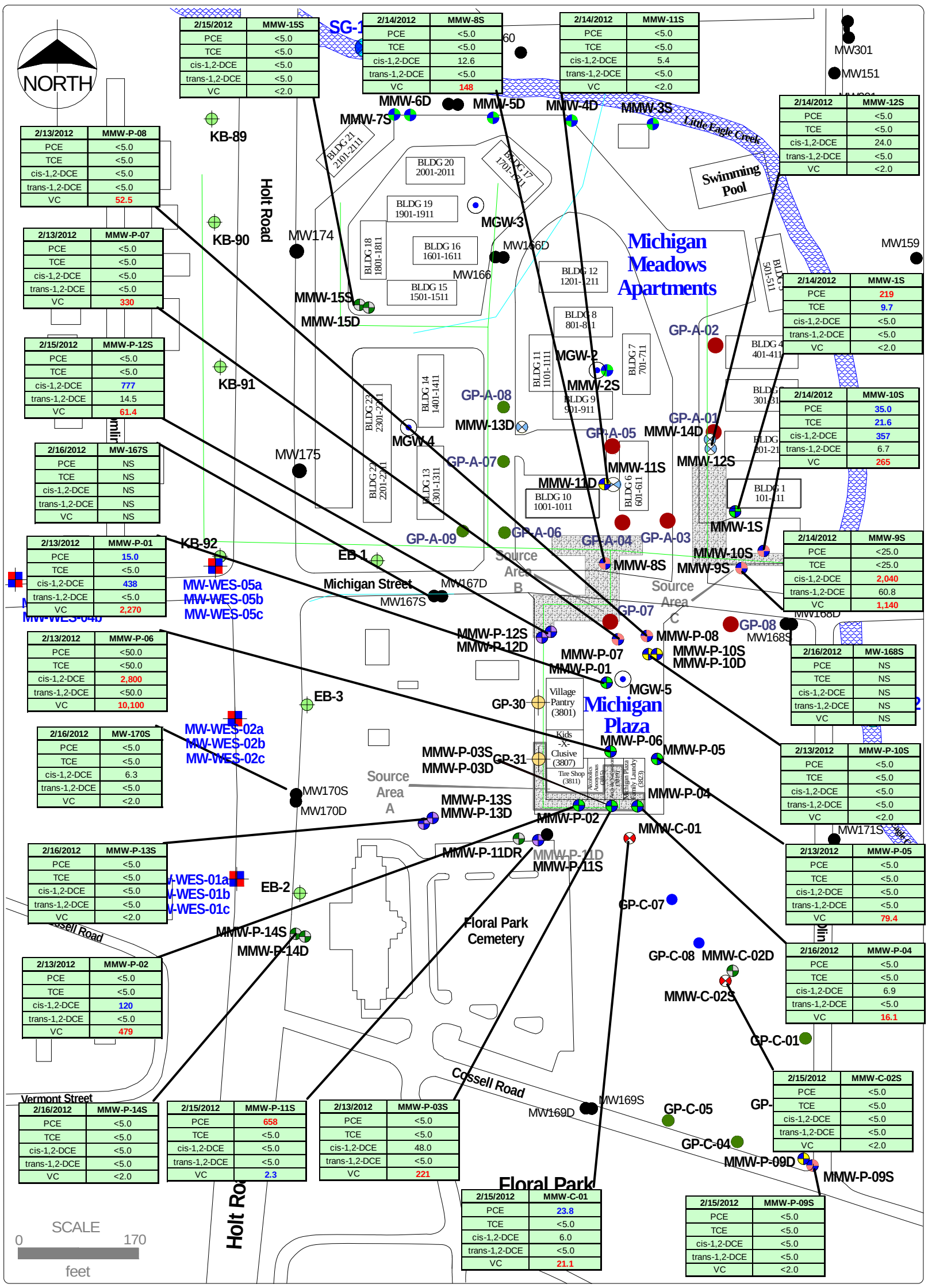
Project Number: M01046
Drawing File: GWE_1Q2012_DEEP
Date Prepared: 6/11/2012
Scale: 1"=170'

Deep Potentiometric Surface Map January 18, 2012

Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, Indiana

FIGURE
3



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

2/14/2012	MMW-8S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	12.6
trans-1,2-DCE	<5.0
VC	148

2/14/2012	MMW-11S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	5.4
trans-1,2-DCE	<5.0
VC	<2.0

2/14/2012	MMW-12S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	24.0
trans-1,2-DCE	<5.0
VC	<2.0

2/13/2012	MMW-P-08
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	52.5

2/13/2012	MMW-P-07
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	330

2/14/2012	MMW-1S
PCE	219
TCE	9.7
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	<2.0

2/15/2012	MMW-P-12S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	777
trans-1,2-DCE	14.5
VC	61.4

2/14/2012	MMW-10S
PCE	35.0
TCE	21.6
cis-1,2-DCE	357
trans-1,2-DCE	6.7
VC	265

2/16/2012	MW-167S
PCE	NS
TCE	NS
cis-1,2-DCE	NS
trans-1,2-DCE	NS
VC	NS

2/13/2012	MMW-P-01
PCE	15.0
TCE	<5.0
cis-1,2-DCE	438
trans-1,2-DCE	<5.0
VC	2,270

2/14/2012	MMW-9S
PCE	<25.0
TCE	<25.0
cis-1,2-DCE	2,040
trans-1,2-DCE	60.8
VC	1,140

2/13/2012	MMW-P-06
PCE	<50.0
TCE	<50.0
cis-1,2-DCE	2,800
trans-1,2-DCE	<50.0
VC	10,100

2/16/2012	MW-168S
PCE	NS
TCE	NS
cis-1,2-DCE	NS
trans-1,2-DCE	NS
VC	NS

2/16/2012	MW-170S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	6.3
trans-1,2-DCE	<5.0
VC	<2.0

2/13/2012	MMW-P-10S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	<2.0

2/16/2012	MMW-P-13S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	<2.0

2/13/2012	MMW-P-05
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	79.4

2/13/2012	MMW-P-02
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	120
trans-1,2-DCE	<5.0
VC	479

2/16/2012	MMW-P-04
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	6.9
trans-1,2-DCE	<5.0
VC	16.1

2/16/2012	MMW-P-14S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	<2.0

2/15/2012	MMW-P-11S
PCE	658
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	2.3

2/13/2012	MMW-P-03S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	48.0
trans-1,2-DCE	<5.0
VC	221

2/15/2012	MMW-C-02S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	<2.0

2/15/2012	MMW-C-01
PCE	23.8
TCE	<5.0
cis-1,2-DCE	6.0
trans-1,2-DCE	<5.0
VC	21.1

2/15/2012	MMW-P-09S
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	<2.0

LEGEND

- Fence
- MW160 — Keramida/Environ Monitoring Wells
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- MMW-P-07 — MUNDELL Monitoring Wells (January 2007)
- MMW-P-09D — MUNDELL Monitoring Wells (May-June 2007)
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- MW-WES-01 — EPA Vertical Aquifer Sampling Well Locations (November 2011)
- MMW-P-11D — Abandoned Monitoring Well Location
- EB-2 — Environ Soil Borings
- Sanitary Sewer
- 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

2/15/2012	MMW-C-01
PCE	23.8
TCE	<5.0
cis-1,2-DCE	6.0
trans-1,2-DCE	<5.0
VC	21.1

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)

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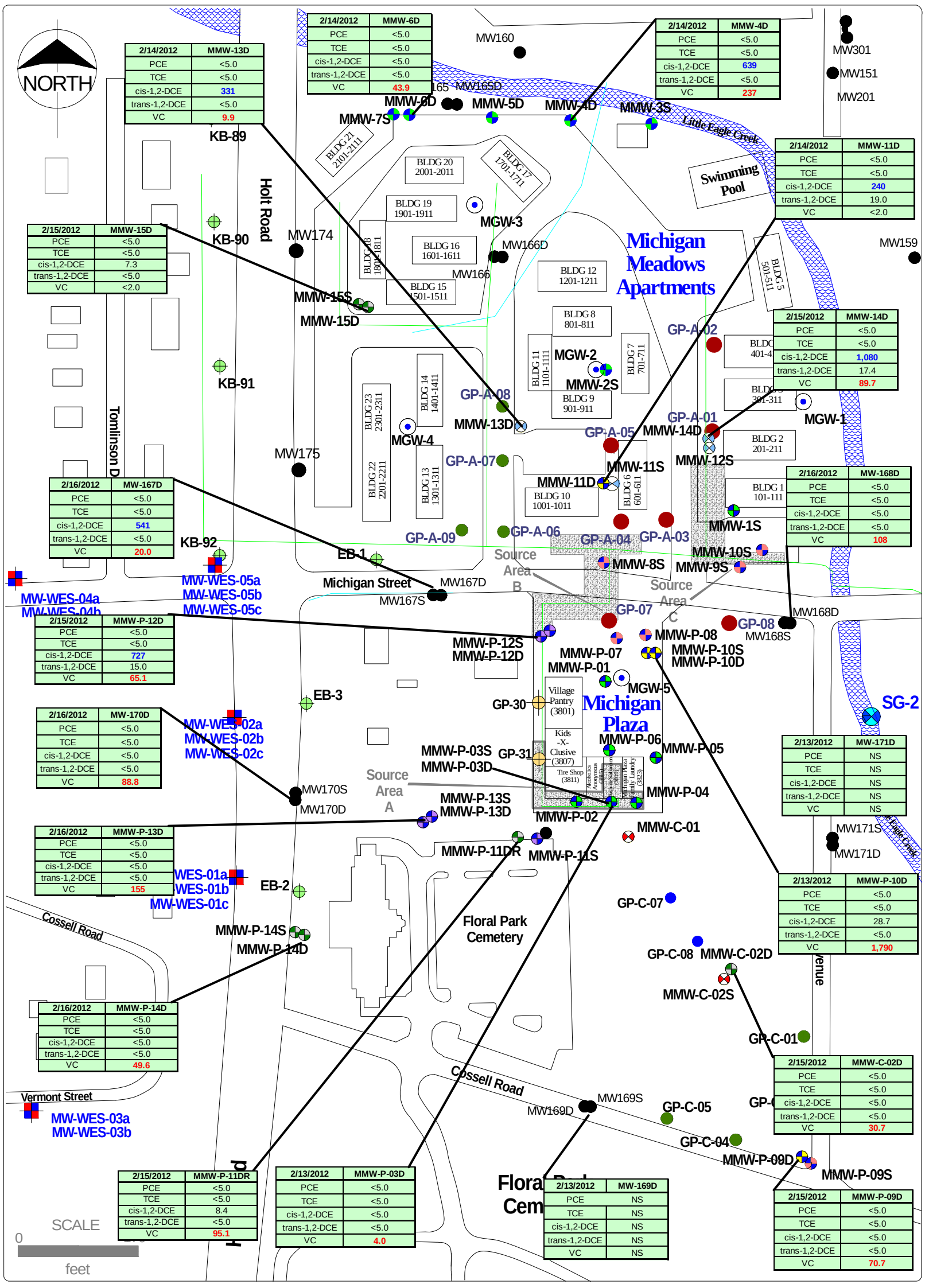
Project Number: M01046
Drawing File: Fig_4 GW Analytical.skf
Date Prepared: 6/11/2012
Scale: 1"=170'

Groundwater Analytical Map - Shallow
1st Quarter 2012

Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, Indiana

FIGURE
4



2/14/2012	MMW-13D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	331
trans-1,2-DCE	<5.0
VC	9.9

2/14/2012	MMW-6D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	43.9

2/14/2012	MMW-4D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	639
trans-1,2-DCE	<5.0
VC	237

2/14/2012	MMW-11D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	240
trans-1,2-DCE	19.0
VC	<2.0

2/15/2012	MMW-15D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	7.3
trans-1,2-DCE	<5.0
VC	<2.0

2/15/2012	MMW-14D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	1,080
trans-1,2-DCE	17.4
VC	89.7

2/16/2012	MW-167D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	541
trans-1,2-DCE	<5.0
VC	20.0

2/16/2012	MW-168D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	108

2/15/2012	MMW-P-12D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	727
trans-1,2-DCE	15.0
VC	65.1

2/16/2012	MW-170D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	88.8

2/13/2012	MW-171D
PCE	NS
TCE	NS
cis-1,2-DCE	NS
trans-1,2-DCE	NS
VC	NS

2/16/2012	MMW-P-13D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	155

2/13/2012	MMW-P-10D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	28.7
trans-1,2-DCE	<5.0
VC	1,790

2/16/2012	MMW-P-14D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	49.6

2/15/2012	MMW-C-02D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	30.7

2/15/2012	MMW-P-11DR
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	8.4
trans-1,2-DCE	<5.0
VC	95.1

2/13/2012	MMW-P-03D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	4.0

2/13/2012	MW-169D
PCE	NS
TCE	NS
cis-1,2-DCE	NS
trans-1,2-DCE	NS
VC	NS

2/15/2012	MMW-P-09D
PCE	<5.0
TCE	<5.0
cis-1,2-DCE	<5.0
trans-1,2-DCE	<5.0
VC	70.7

2/15/2012	MMW-C-01
PCE	23.8
TCE	<5.0
cis-1,2-DCE	6.0
trans-1,2-DCE	<5.0
VC	21.1

LEGEND

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	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
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ug/L = micrograms per liter
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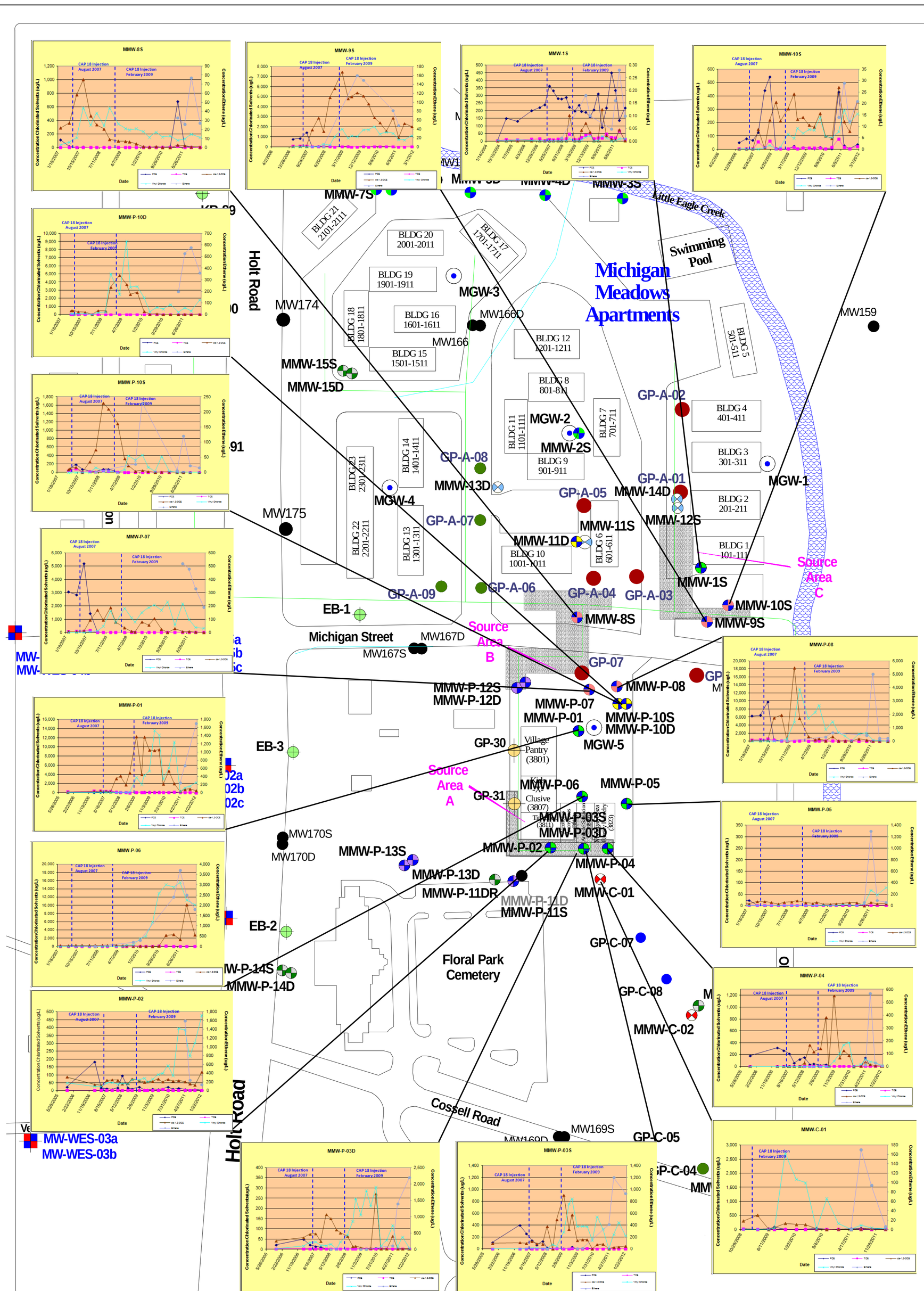
317-630-9060, fax 317-630-9065

Project Number: M01046
Drawing File: Fig_5 GW Analytical.skf
Date Prepared: 6/11/2012
Scale: 1"=170'

Groundwater Analytical Map - Deep
1st Quarter 2012

Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, Indiana

FIGURE
5



LEGEND

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MW160	Keramida/Environ Monitoring Wells
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	Sanitary Sewer
	Storm Sewer

NORTH

SCALE 0 85 170 feet

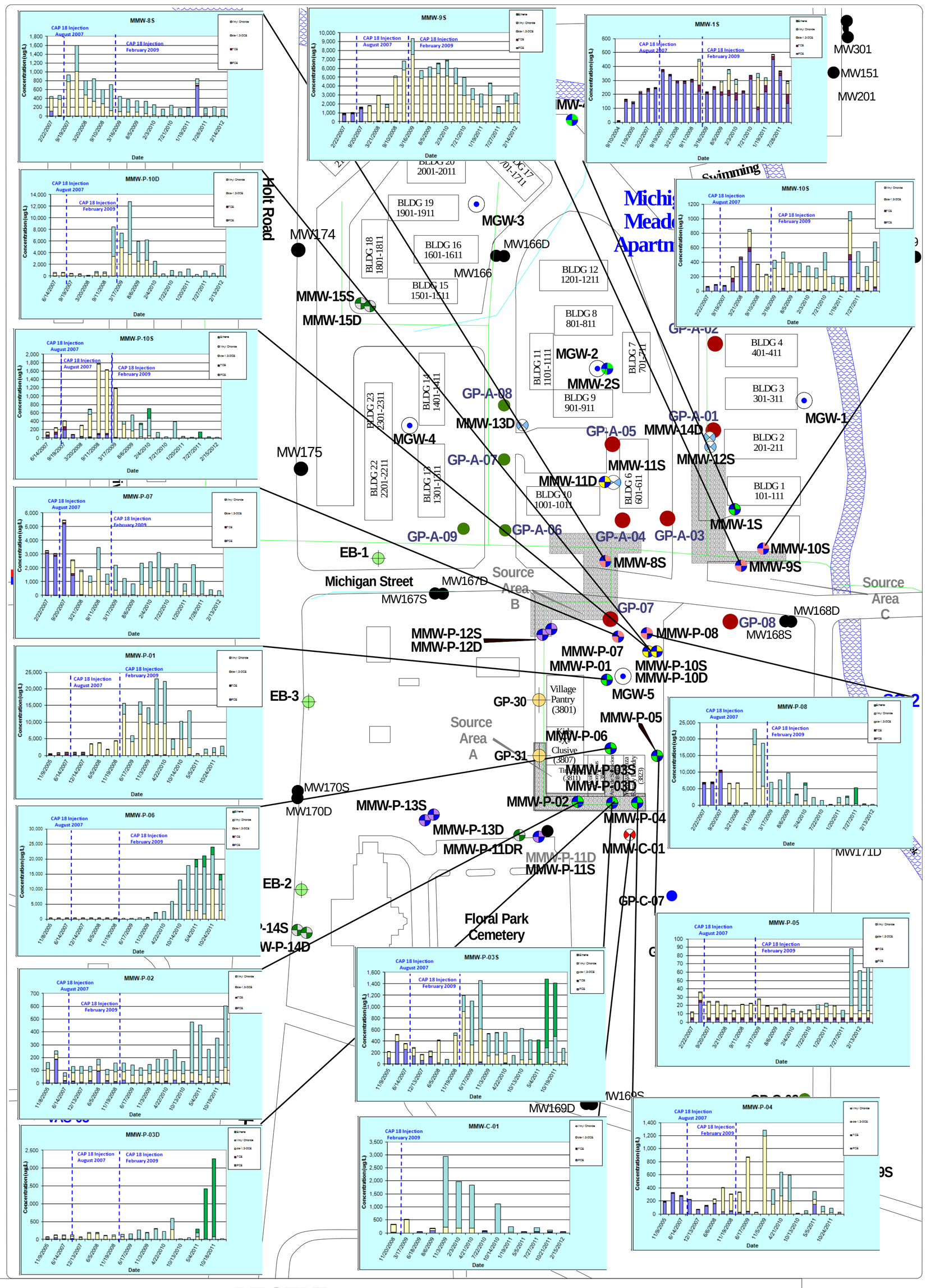
Mundell Consulting Professionals for the Earth and the Environment
110 South Downey Avenue
Indianapolis, Indiana 46219-6406
317-630-9060, fax 317-630-9065

Project Number: M01046
Drawing File: Fig6IndicatorTrends.skf
Date Prepared: 5/6/2012
Scale: 1"=85'

Indicator Compound Trends in Groundwater

Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, Indiana

FIGURE
6



LEGEND

	Fence
MW160	Keramida/Environ Monitoring Wells
MMW-P-06	MUNDELL Monitoring Wells, Michigan Plaza (September 2005)
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MMW-P-11D	Abandoned Monitoring Well Location
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	Sanitary Sewer
	Storm Sewer

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

Project Number: M01046
Drawing File: Fig7Daughter Prods.skf
Date Prepared: 5/25/2012
Scale: 1"=85'

Parent and Daughter Products Distribution in Groundwater

Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, Indiana

FIGURE
7

MMW-13D
MMW-11S
MMW-11D
BLDG 10
1001-1011
B7
BLDG 6
601-611
B6
MMW-14D
MMW-12S
BLDG 2
201-211
B5
BLDG 1
101-111
MMW-1S
Source
Area
C
MMW-10S
MMW-9S
Source
Area
B
MMW-8S
Michigan Street
MW168D
MW168S
MMW-P-07
MMW-P-08
MMW-P-10S
MMW-P-10D
MMW-P-01
MGW-5
B1
Village
Pantry
(3801)
MMW-P-06
MMW-P-05
Kids
-X-
Clusive
(3807)
B2
Tire Shop
(3811)
Alcoholics
Anonymous
(3815)
Arca de Salvacion
(3819)
Michigan Plaza
Family Laundry
(3823)
Source
Area
A
B4
MMW-P-02
B3
MMW-P-04
MMW-C-01
MMW-P-03S
MMW-P-03D
Little Eagle Creek
MW171S
MW171D
Floral Park
Cemetery
MMW-C-02
Olin Avenue
NORTH
SCALE
0
80
feet
Keramida Monitoring Well Locations Referenced
from Keramida Environmental, Inc.
Project No. 2829
March 13, 2002
Cossell Road
MMW-P-09D
MMW-P-09S

LEGEND

B2	MUNDELL Existing Vapor Mitigation System Locations (August 2009)
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

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

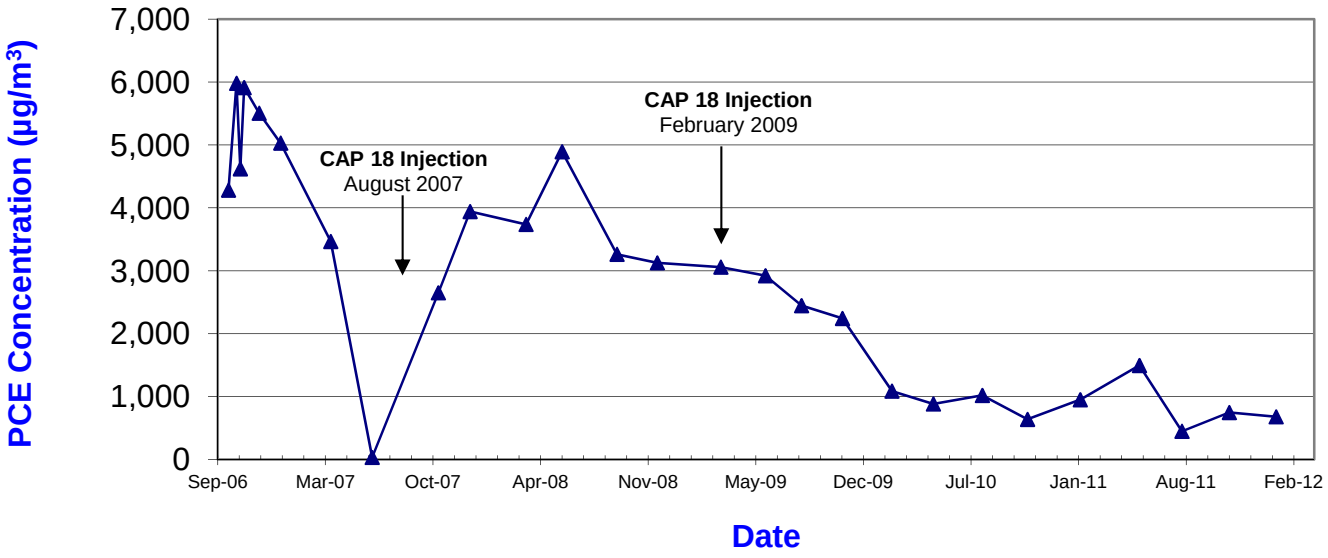
Project Number: M01046
Drawing File: Fig_8 Vapor Mit.skf
Date Prepared: 10/20/2011
Scale: 1"=80'

Vapor Mitigation System Locations

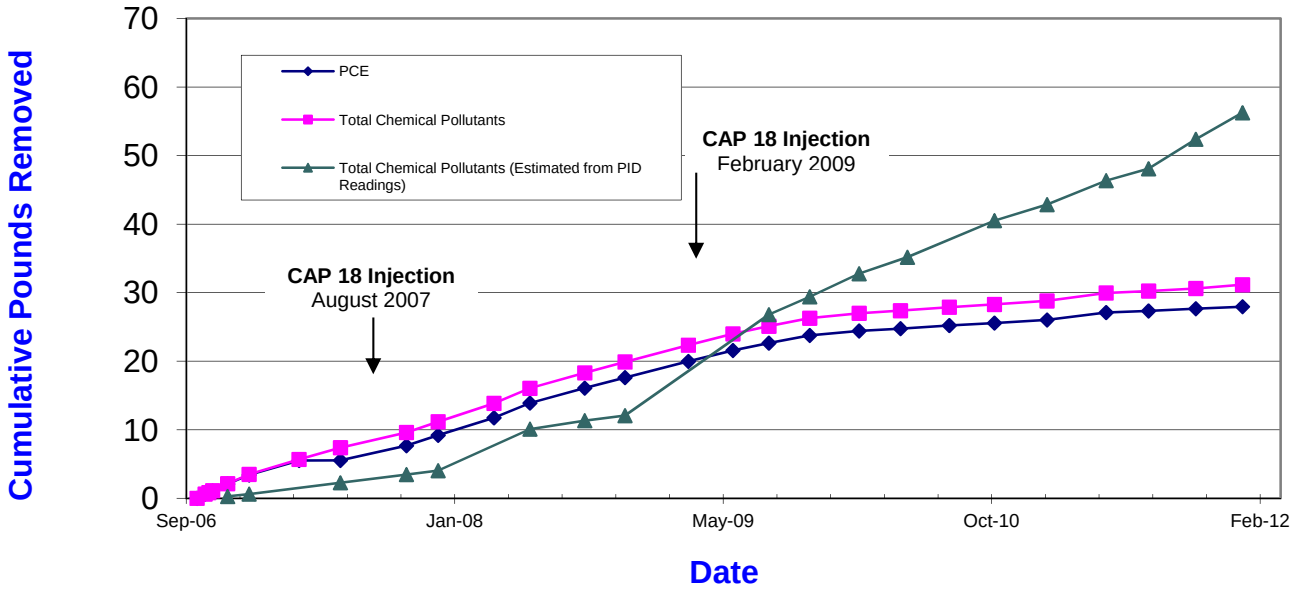
Michigan Plaza
3801 - 3823 West Michigan Street
Indianapolis, Indiana

FIGURE
8

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



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



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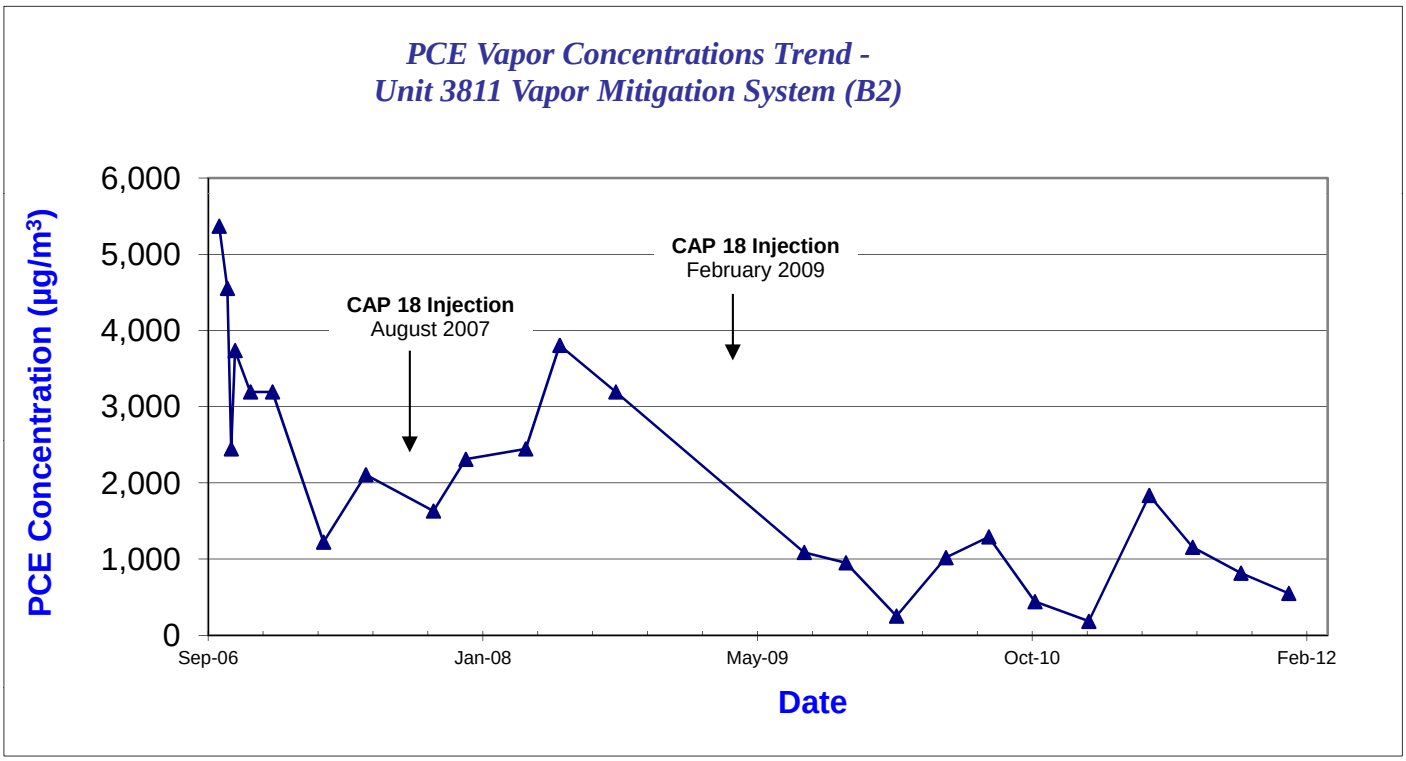
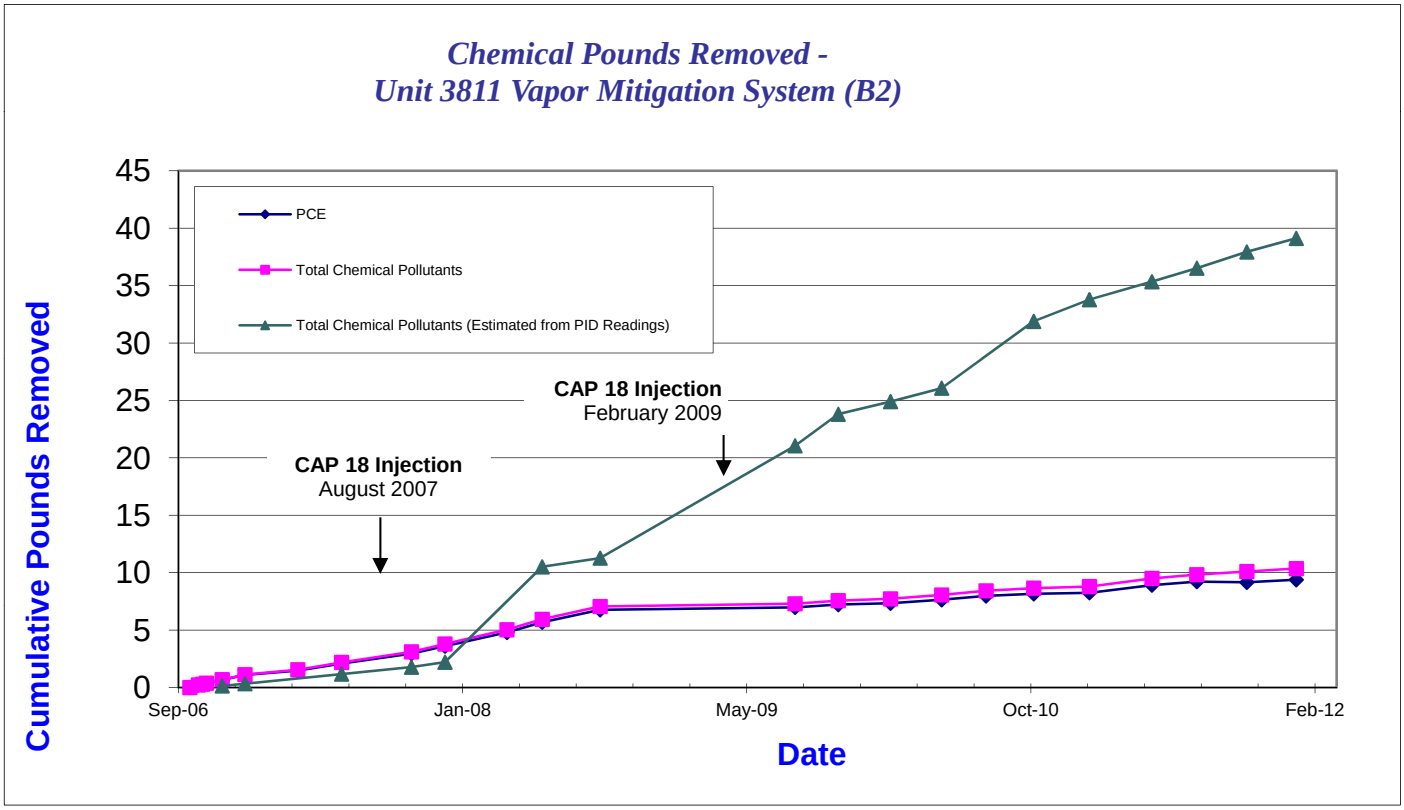
Project Number:	M01046
File:	MI Plaza charts
Date Prepared:	4/29/2012
Scale:	no scale

PCE Concentration Trends
and Cumulative Pounds Removed
Vapor Mitigation System B-1 (Villiage Pantry - Unit 3801)
First Quarter 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, IN

FIGURE

9





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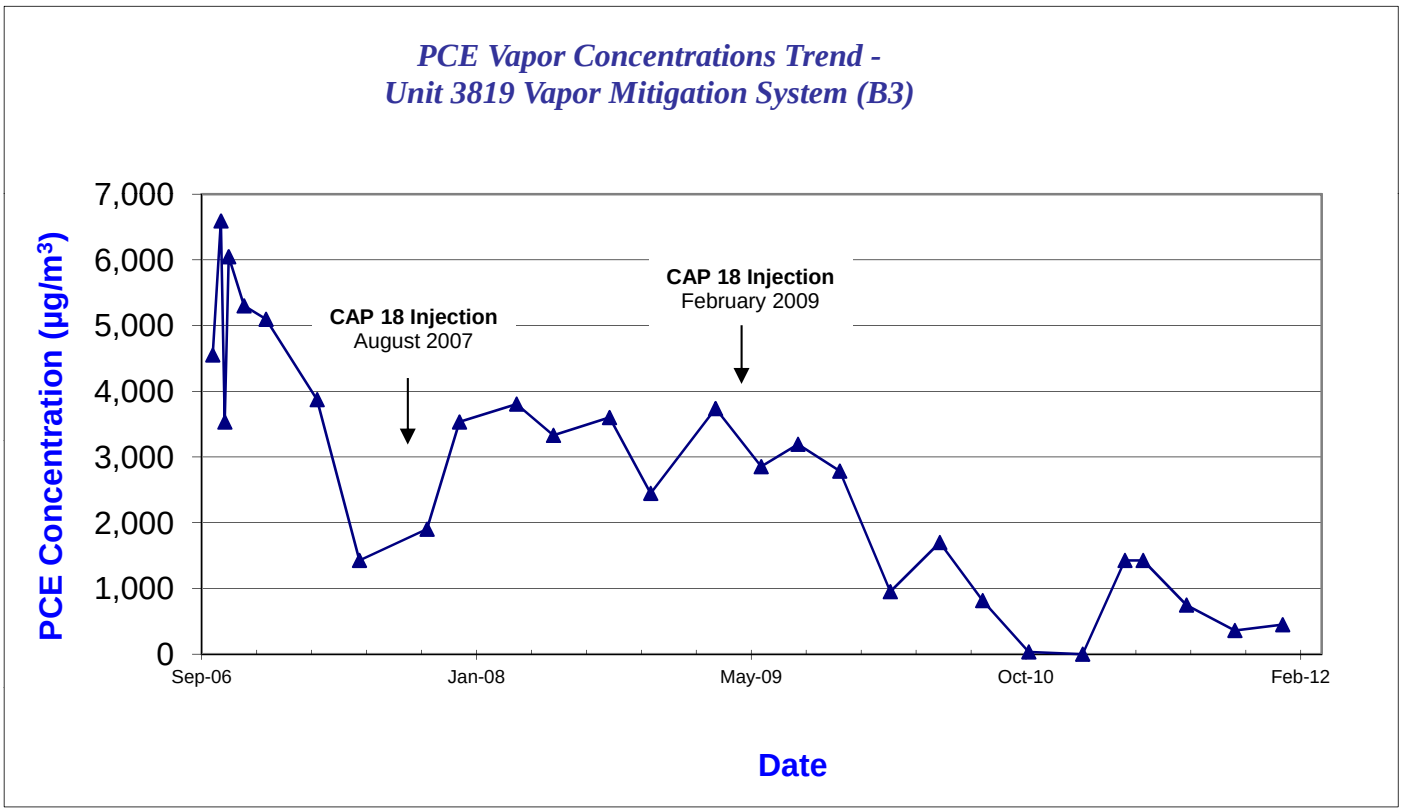
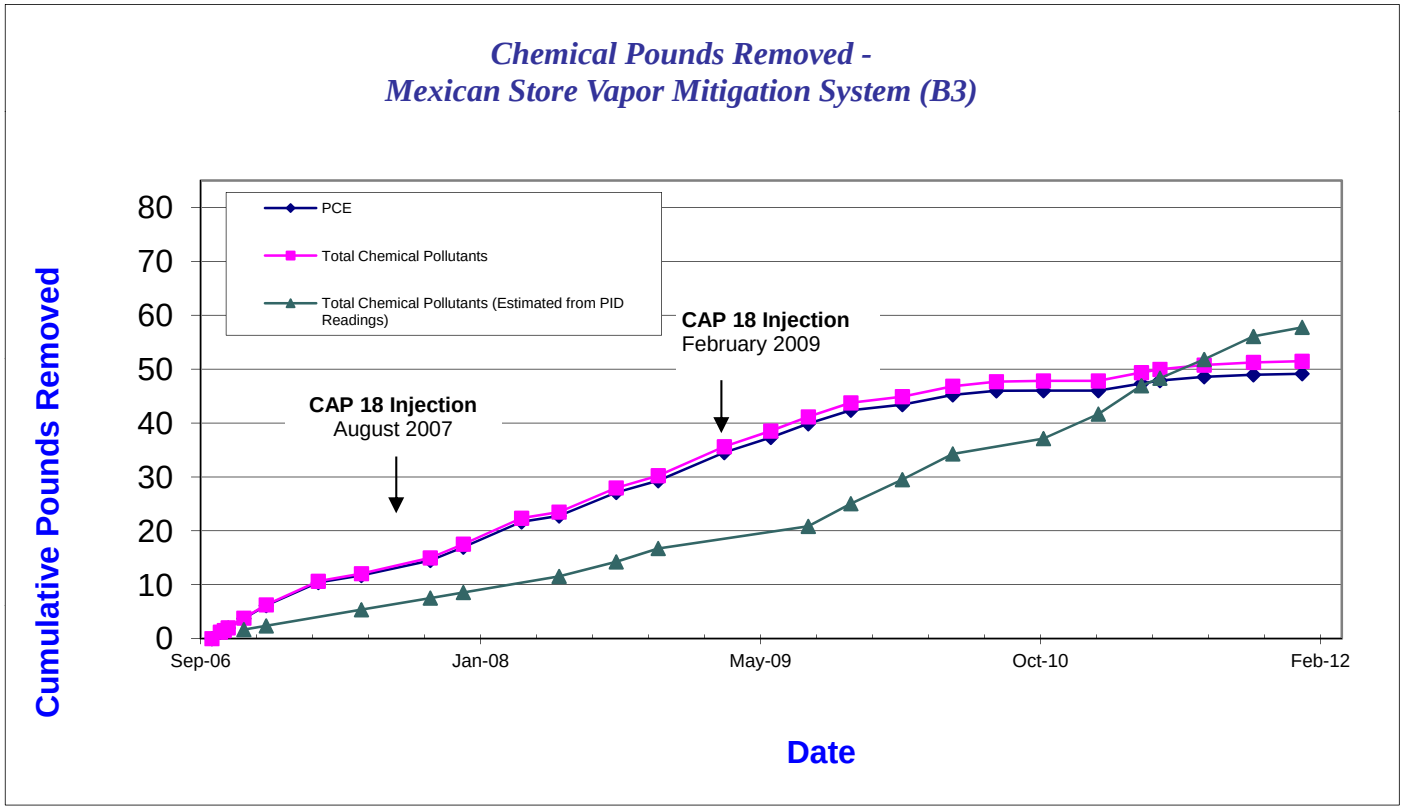
Project Number:	M01046
File:	MI Plaza charts
Date Prepared:	4/29/2012
Scale:	no scale

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

FIGURE

10





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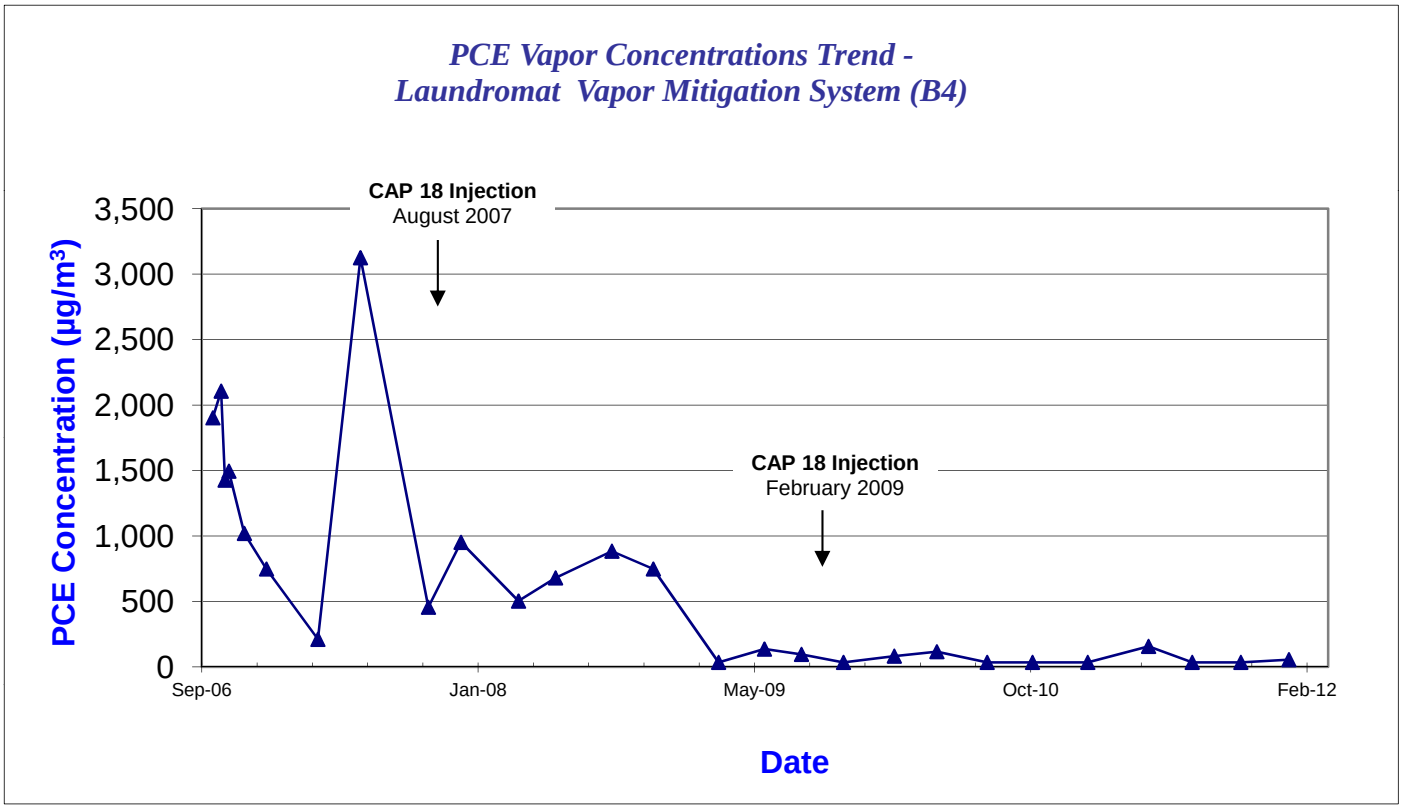
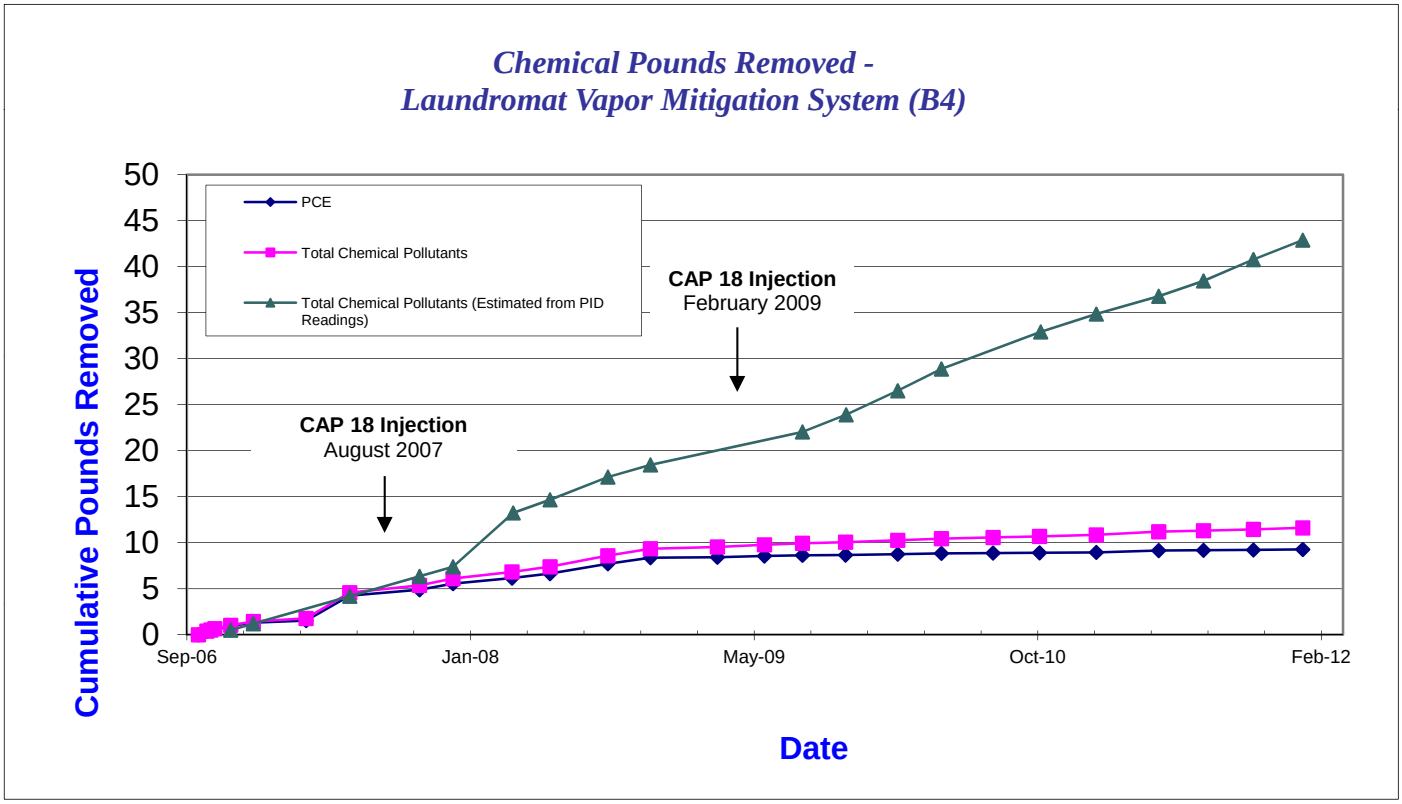
Project Number:	M01046
File:	MI Plaza charts
Date Prepared:	4/29/2012
Scale:	no scale

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

FIGURE

11





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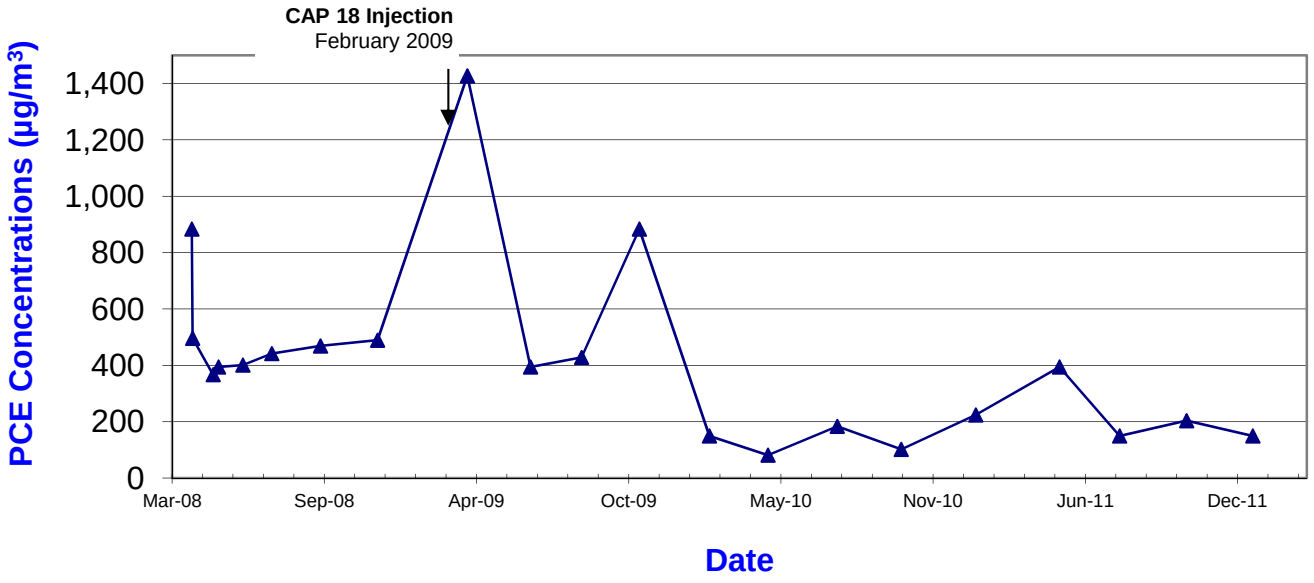
Project Number:	M01046
File:	MI Plaza charts
Date Prepared:	4/29/2012
Scale:	no scale

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

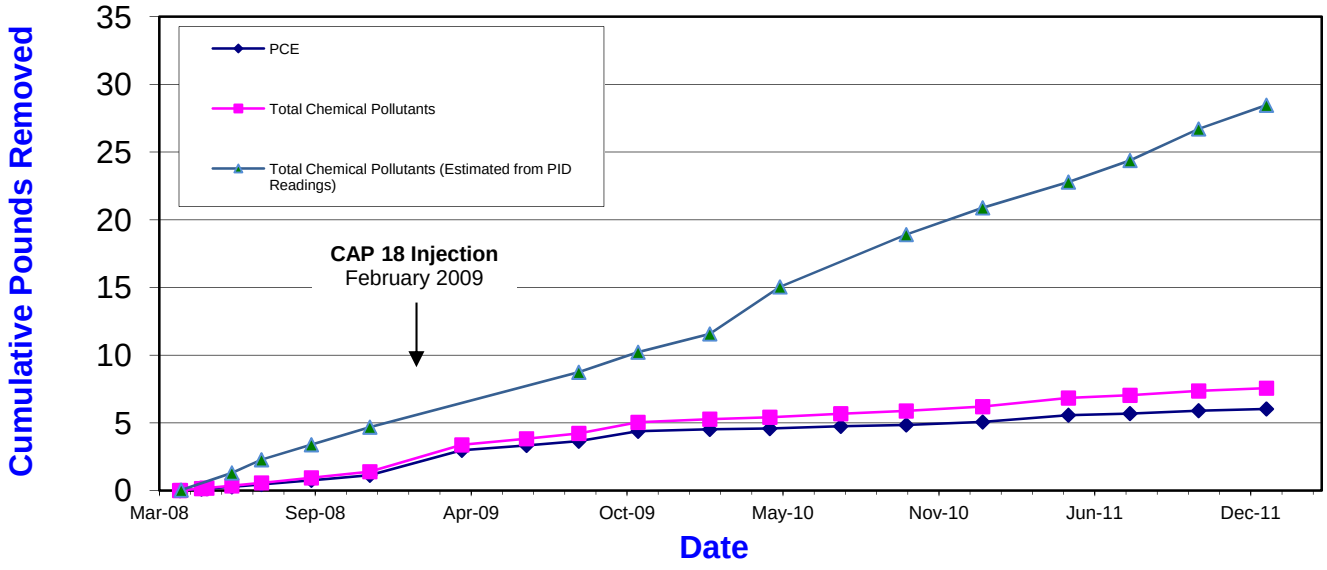
FIGURE

12

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



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



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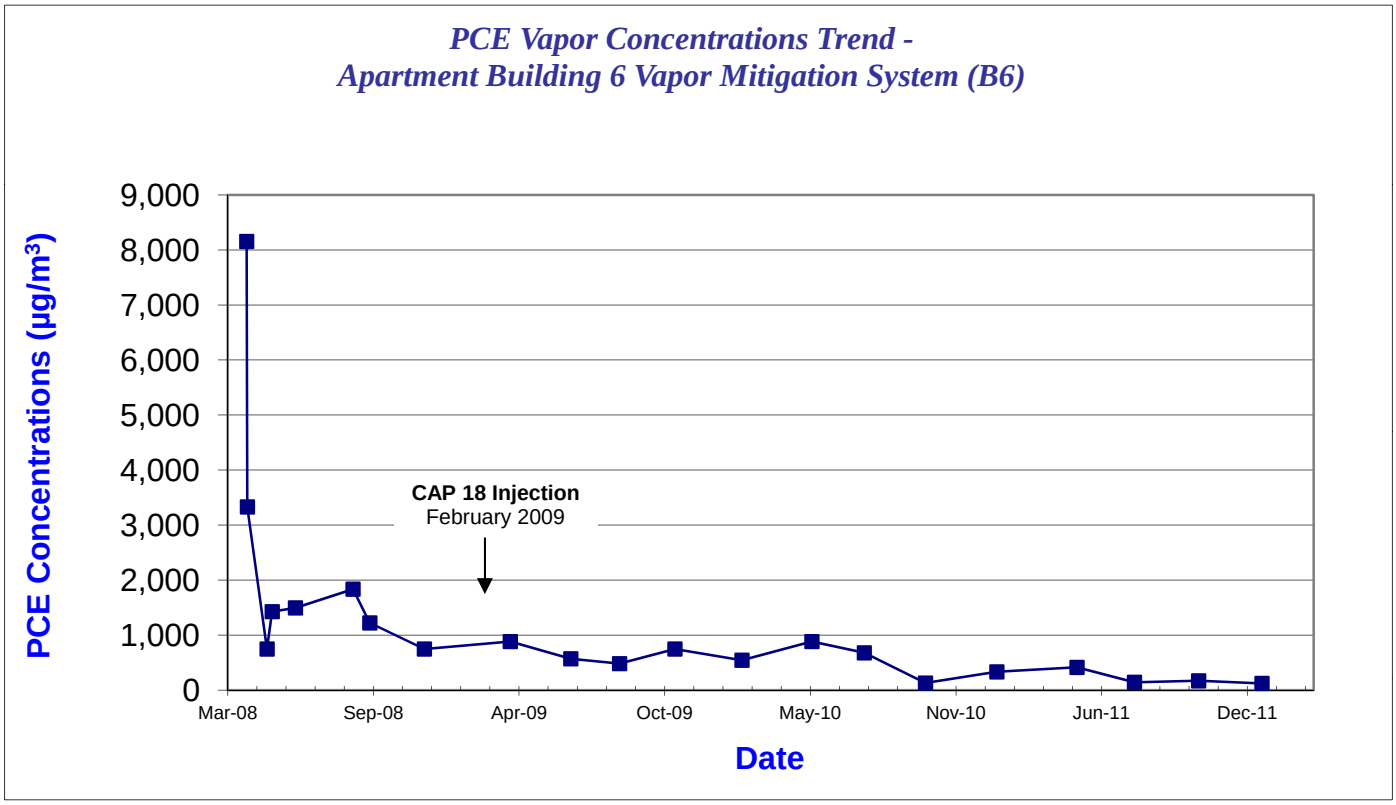
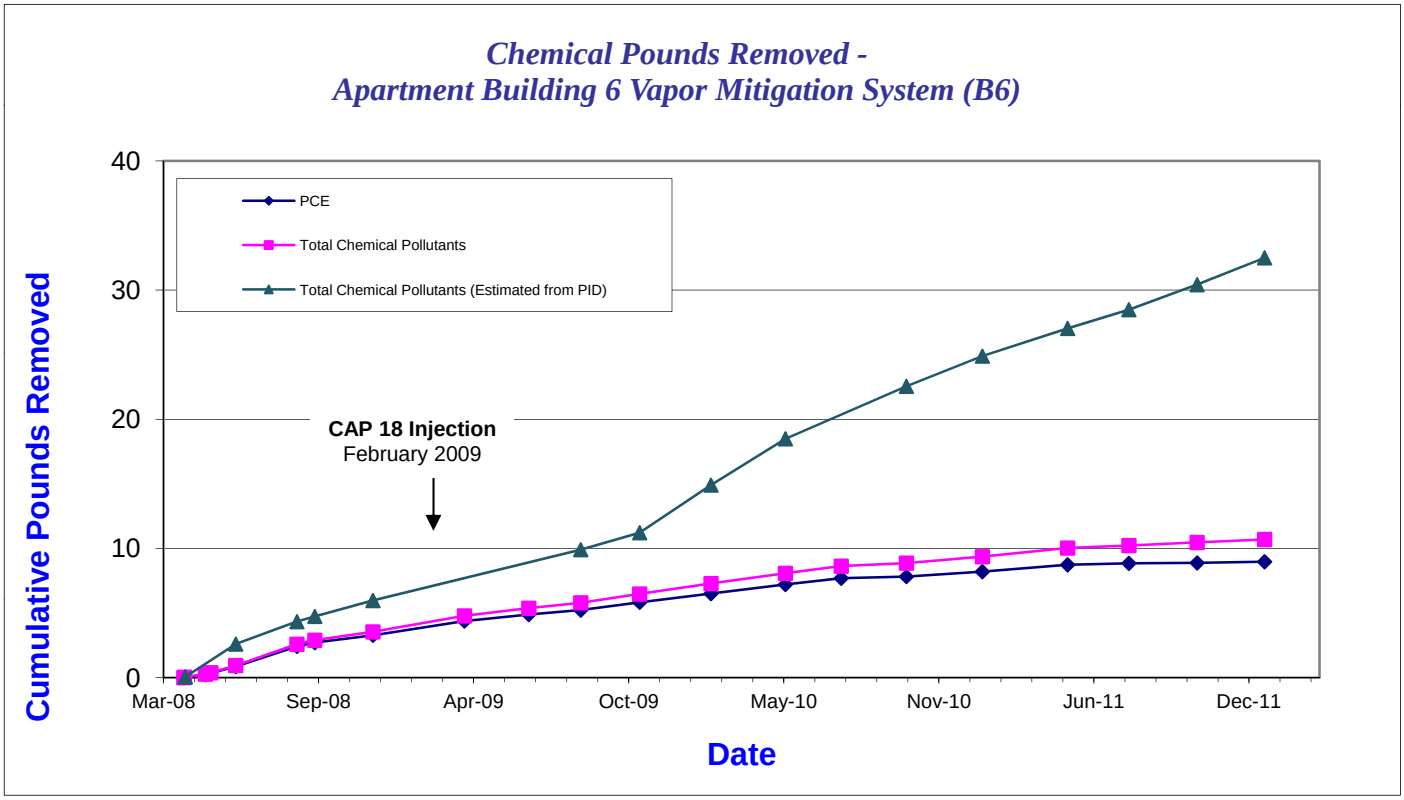
Project Number:	M01046
File:	MI Plaza charts
Date Prepared:	4/29/2012
Scale:	no scale

PCE Concentration Trends
and Cumulative Pounds Removed
Vapor Mitigation System B-5 (Apartments, Bldg. 1)
First Quarter 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, IN

FIGURE

13





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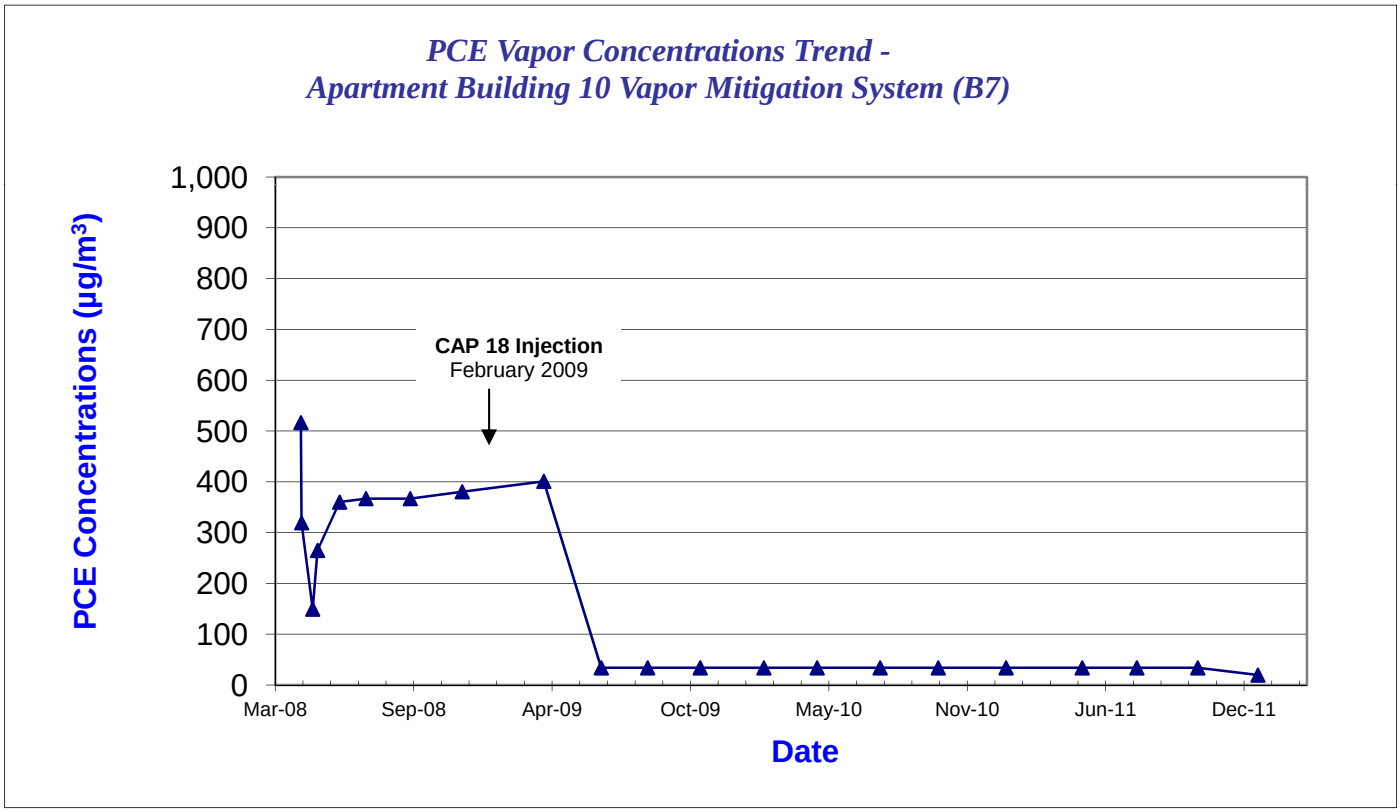
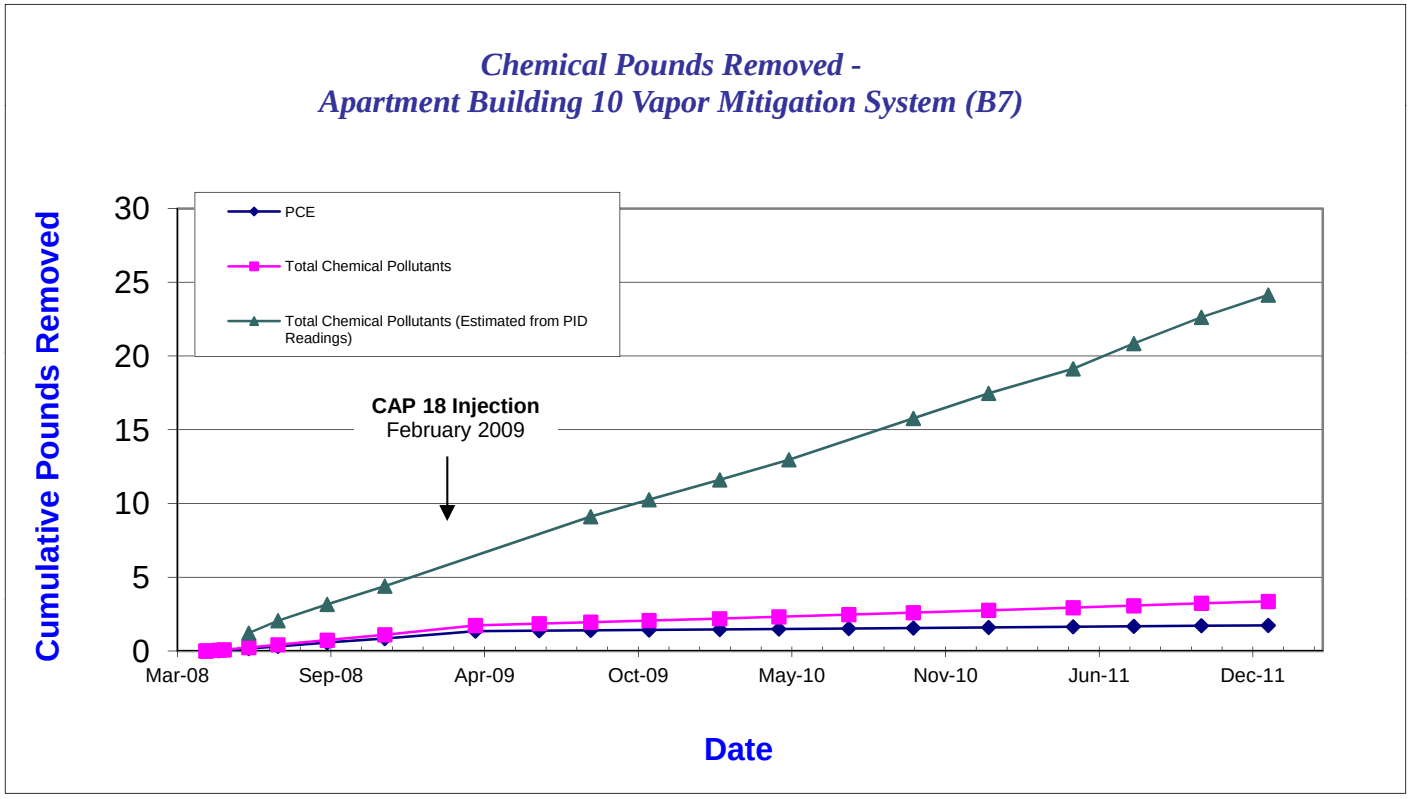
Project Number:	M01046
File:	MI Plaza charts
Date Prepared:	4/29/2012
Scale:	no scale

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

FIGURE

14





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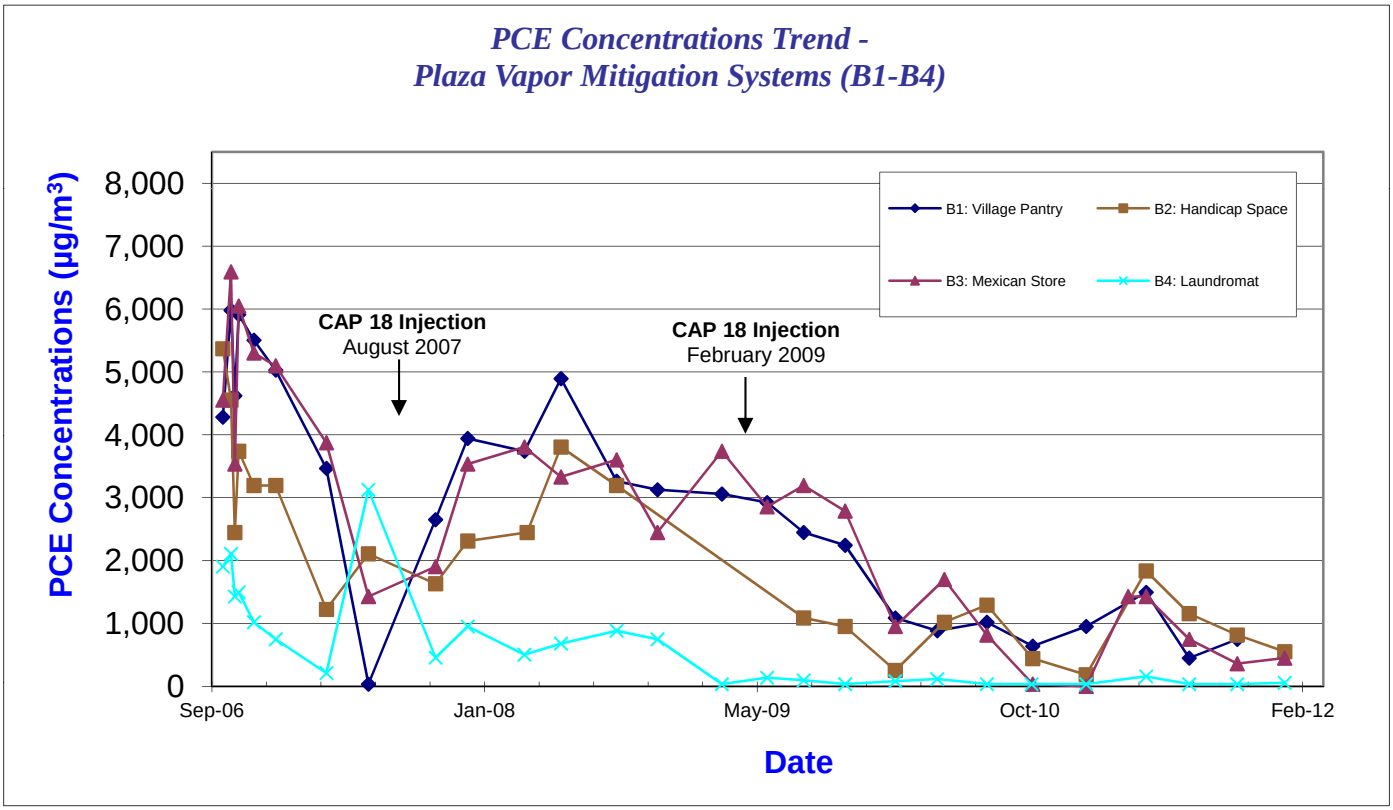
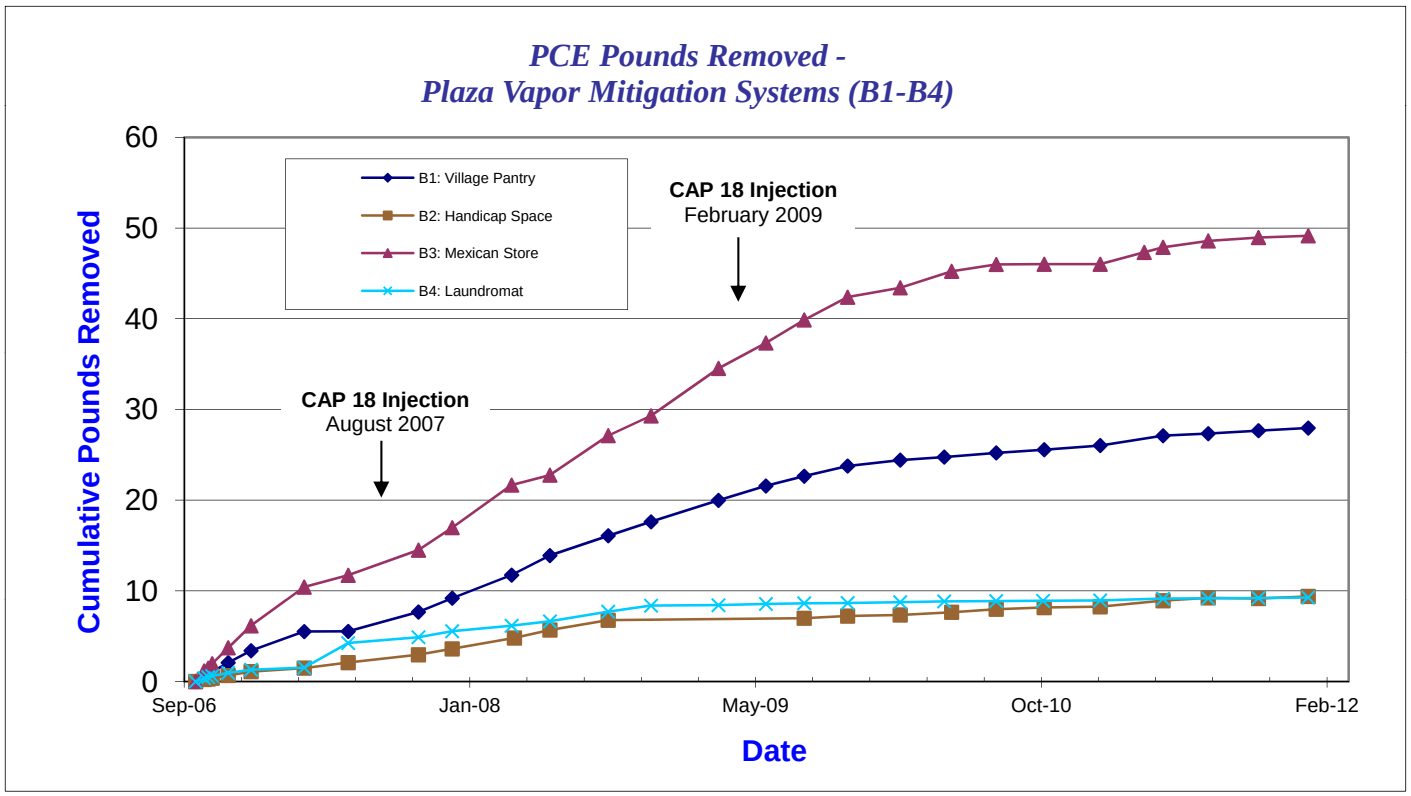
Project Number:	M01046
File:	MI Plaza charts
Date Prepared:	4/29/2012
Scale:	no scale

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

FIGURE

15





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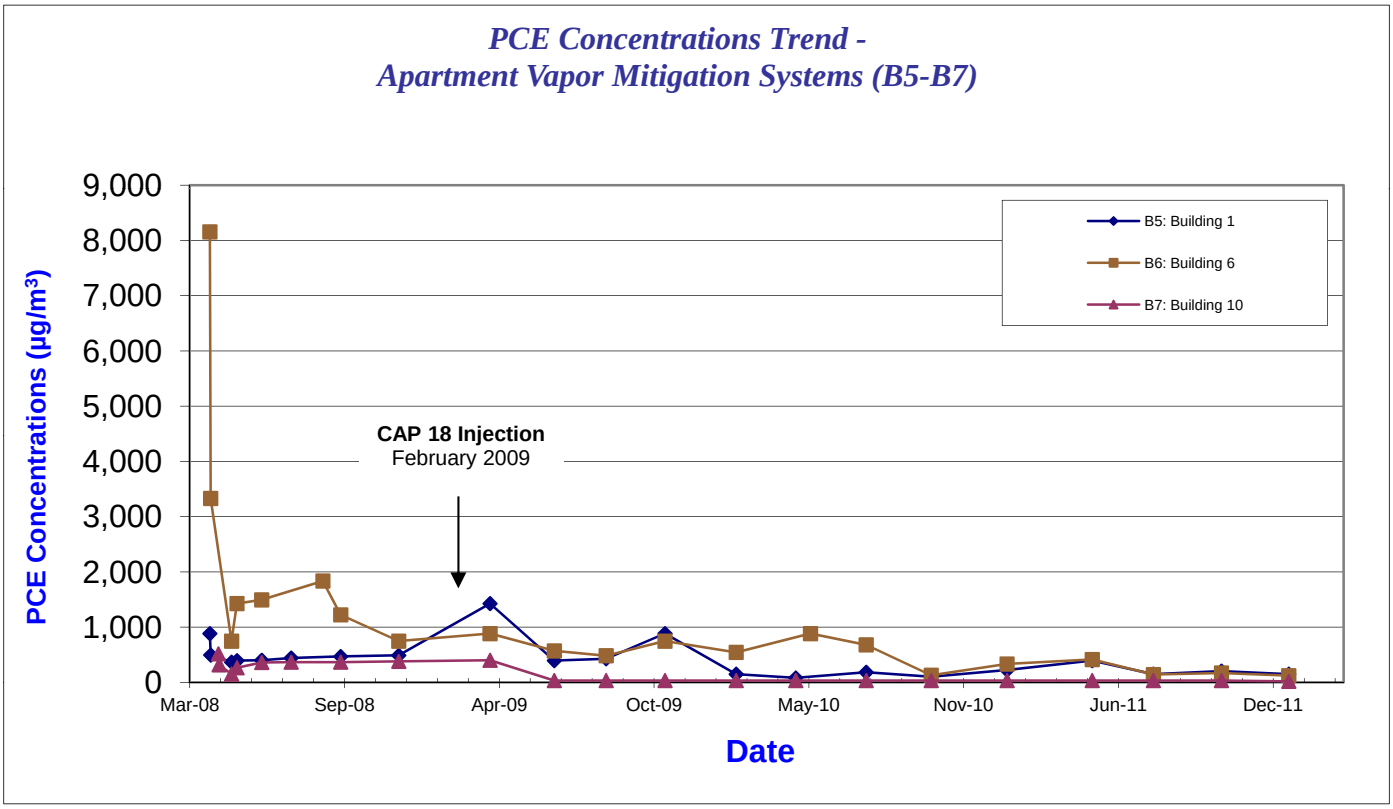
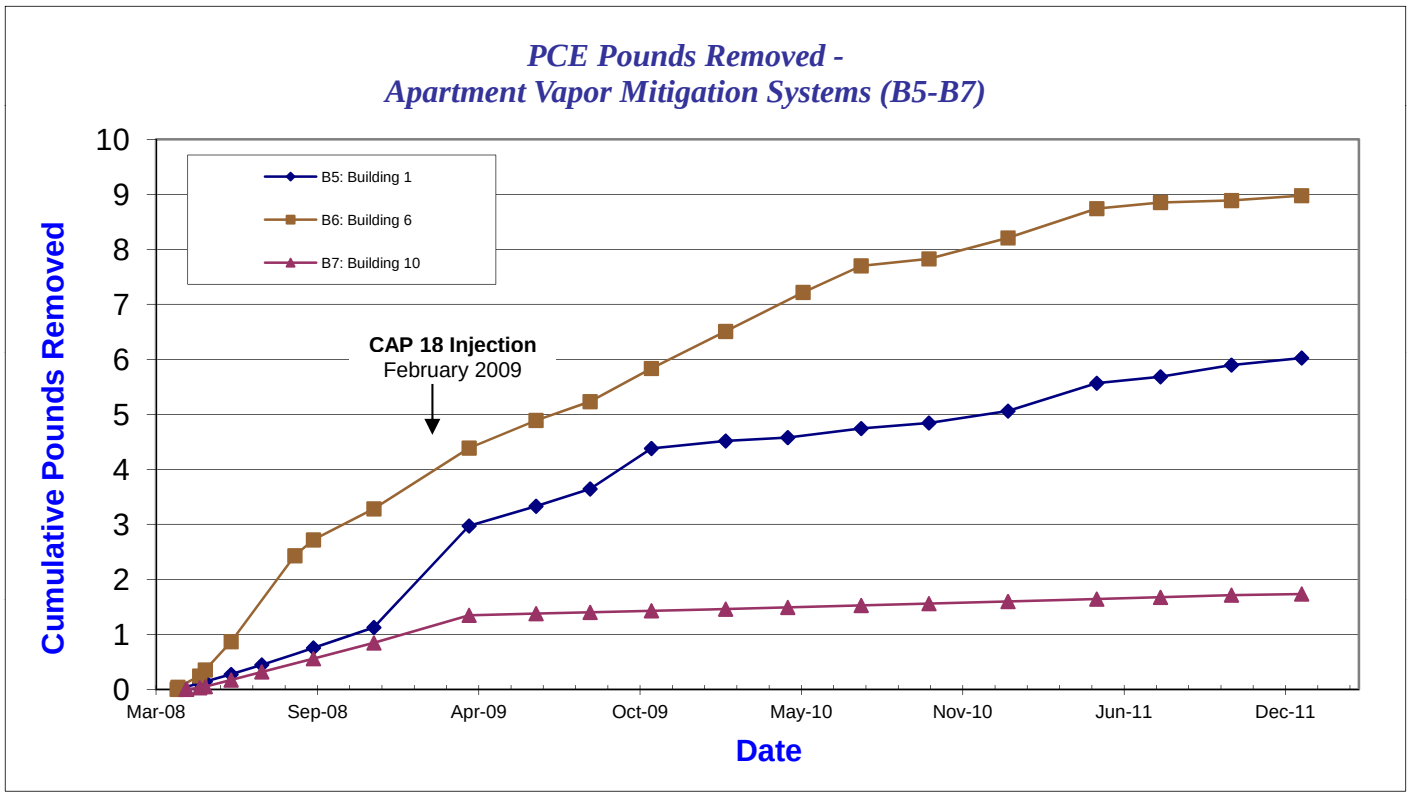
Project Number:	M01046
File:	MI Plaza charts
Date Prepared:	4/29/2012
Scale:	no scale

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

FIGURE

16





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Project Number:	M01046
File:	MI Plaza charts
Date Prepared:	4/29/2012
Scale:	no scale

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

FIGURE

17

APPENDIX A

Laboratory Certificates of Analysis

Pace Analytical Services, Inc.
1233 Dublin Road
Columbus, OH 43215
(614)486-5421

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

February 24, 2012

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

RE: Project: MI Plaza M02046
Pace Project No.: 5058497

Dear Ms. Webb:
Enclosed are the analytical results for sample(s) received by the laboratory on February 14, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Tina Sayer

Tina Sayer

tina.sayer@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: MI Plaza M02046
Pace Project No.: 5058497

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

Ohio Certification IDs
1233 Dublin Road, Columbus, OH 43215
Indiana Drinking Water Certification #: C-OH-11
Kentucky Drinking Water Certification #: 90132
NVLAP Certification #: 90132
Ohio Microbiology Certification #: 943
Ohio Drinking Water Certification #: 1030
Ohio VAP Certification #: CL0054

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Indianapolis, IN 46268
(317)875-5894

SAMPLE SUMMARY

Project: MI Plaza M02046
Pace Project No.: 5058497

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5058497001	**MMW-P-02**	Water	02/13/12 10:16	02/14/12 13:10
5058497002	**MMW-P-03D**	Water	02/13/12 10:49	02/14/12 13:10
5058497003	**MMW-P-03S**	Water	02/13/12 11:21	02/14/12 13:10
5058497004	**MMW-P-05**	Water	02/13/12 12:15	02/14/12 13:10
5058497005	**MMW-P-10S**	Water	02/13/12 12:52	02/14/12 13:10
5058497006	**MMW-P-10D**	Water	02/13/12 13:23	02/14/12 13:10
5058497007	**MMW-P-08**	Water	02/13/12 13:54	02/14/12 13:10
5058497008	**MMW-P-07**	Water	02/13/12 14:26	02/14/12 13:10
5058497009	**MMW-P-01**	Water	02/13/12 14:57	02/14/12 13:10
5058497010	**MMW-P-06**	Water	02/13/12 15:27	02/14/12 13:10
5058497011	**MMW-9S**	Water	02/13/12 15:57	02/14/12 13:10
5058497012	**Dup-2**	Water	02/13/12 08:00	02/14/12 13:10

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Indianapolis, IN 46268
(317)875-5894

SAMPLE ANALYTE COUNT

Project: MI Plaza M02046
Pace Project No.: 5058497

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5058497001	**MMW-P-02**	EPA 8260	ALA	20
		SM 5310C	GR1	1
		EPA 353.2	ILP	2
		ASTM D516-90,02	TPD	1
5058497002	**MMW-P-03D**	EPA 8260	ALA	20
		SM 5310C	GR1	1
		EPA 353.2	ILP	2
		ASTM D516-90,02	TPD	1
5058497003	**MMW-P-03S**	EPA 8260	ALA	20
		SM 5310C	GR1	1
		EPA 353.2	ILP	2
		ASTM D516-90,02	TPD	1
5058497004	**MMW-P-05**	EPA 8260	ALA	20
		SM 5310C	GR1	1
		EPA 353.2	ILP	2
		ASTM D516-90,02	TPD	1
5058497005	**MMW-P-10S**	EPA 8260	ALA	20
		SM 5310C	GR1	1
		EPA 353.2	ILP	2
		ASTM D516-90,02	TPD	1
5058497006	**MMW-P-10D**	EPA 8260	ALA	20
		SM 5310C	GR1	1
		EPA 353.2	ILP	2
		ASTM D516-90,02	TPD	1
5058497007	**MMW-P-08**	EPA 8260	ALA	20
		SM 5310C	GR1	1
		EPA 353.2	ILP	2
		ASTM D516-90,02	TPD	1
5058497008	**MMW-P-07**	EPA 8260	ALA	20
		SM 5310C	GR1	1
		EPA 353.2	ILP	2
		ASTM D516-90,02	TPD	1
5058497009	**MMW-P-01**	EPA 8260	ALA	20
		SM 5310C	GR1	1
		EPA 353.2	ILP	2
		ASTM D516-90,02	TPD	1
5058497010	**MMW-P-06**	EPA 8260	ALA	20

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SAMPLE ANALYTE COUNT

Project: MI Plaza M02046
Pace Project No.: 5058497

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 5310C	GR1	1
		EPA 353.2	ILP	2
		ASTM D516-90,02	TPD	1
5058497011	**MMW-9S**	EPA 8260	ALA	20
		SM 5310C	GR1	1
		EPA 353.2	ILP	2
		ASTM D516-90,02	TPD	1
5058497012	**Dup-2**	EPA 8260	ALA	20
		SM 5310C	GR1	1
		EPA 353.2	ILP	2
		ASTM D516-90,02	TPD	1

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7726 Moller Road
Indianapolis, IN 46268
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ANALYTICAL RESULTS

Project: MI Plaza M02046
Pace Project No.: 5058497

Sample: MMW-P-02 **Lab ID: 5058497001** Collected: 02/13/12 10:16 Received: 02/14/12 13:10 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		02/16/12 01:41	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/16/12 01:41	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/16/12 01:41	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/16/12 01:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/16/12 01:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/16/12 01:41	75-35-4	
cis-1,2-Dichloroethene	**120**	ug/L	5.0	1		02/16/12 01:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/16/12 01:41	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/16/12 01:41	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		02/16/12 01:41	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/16/12 01:41	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/16/12 01:41	127-18-4	
Toluene	ND	ug/L	5.0	1		02/16/12 01:41	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/16/12 01:41	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/16/12 01:41	79-01-6	
Vinyl chloride	**479**	ug/L	20.0	10		02/16/12 02:15	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/16/12 01:41	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%.	83-123	1		02/16/12 01:41	1868-53-7	
4-Bromofluorobenzene (S)	102	%.	72-125	1		02/16/12 01:41	460-00-4	
Toluene-d8 (S)	106	%.	81-114	1		02/16/12 01:41	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**3.3**	mg/L	0.30	1		02/16/12 23:25	7440-44-0	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**0.12**	mg/L	0.10	1		02/15/12 08:36		
Nitrogen, Nitrite	ND	mg/L	0.10	1		02/15/12 08:36		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**85.5**	mg/L	25.0	1		02/20/12 12:18	14808-79-8	N2

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Indianapolis, IN 46268
(317)875-5894

ANALYTICAL RESULTS

Project: MI Plaza M02046
Pace Project No.: 5058497

Sample: MMW-P-03D **Lab ID: 5058497002** Collected: 02/13/12 10:49 Received: 02/14/12 13:10 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		02/16/12 02:48	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/16/12 02:48	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/16/12 02:48	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/16/12 02:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/16/12 02:48	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/16/12 02:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/16/12 02:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/16/12 02:48	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/16/12 02:48	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		02/16/12 02:48	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/16/12 02:48	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/16/12 02:48	127-18-4	
Toluene	ND	ug/L	5.0	1		02/16/12 02:48	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/16/12 02:48	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/16/12 02:48	79-01-6	
Vinyl chloride	**4.0**	ug/L	2.0	1		02/16/12 02:48	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/16/12 02:48	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	83-123	1		02/16/12 02:48	1868-53-7	
4-Bromofluorobenzene (S)	106	%.	72-125	1		02/16/12 02:48	460-00-4	
Toluene-d8 (S)	103	%.	81-114	1		02/16/12 02:48	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**10.1**	mg/L	0.30	1		02/16/12 23:49	7440-44-0	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		02/15/12 08:40		
Nitrogen, Nitrite	ND	mg/L	0.10	1		02/15/12 08:40		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	ND	mg/L	5.0	1		02/20/12 12:18	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M02046
Pace Project No.: 5058497

Sample: MMW-P-03S **Lab ID: 5058497003** Collected: 02/13/12 11:21 Received: 02/14/12 13:10 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		02/16/12 03:24	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/16/12 03:24	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/16/12 03:24	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/16/12 03:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/16/12 03:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/16/12 03:24	75-35-4	
cis-1,2-Dichloroethene	**48.0**	ug/L	5.0	1		02/16/12 03:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/16/12 03:24	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/16/12 03:24	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		02/16/12 03:24	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/16/12 03:24	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/16/12 03:24	127-18-4	
Toluene	ND	ug/L	5.0	1		02/16/12 03:24	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/16/12 03:24	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/16/12 03:24	79-01-6	
Vinyl chloride	**221**	ug/L	2.0	1		02/16/12 03:24	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/16/12 03:24	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%.	83-123	1		02/16/12 03:24	1868-53-7	
4-Bromofluorobenzene (S)	95	%.	72-125	1		02/16/12 03:24	460-00-4	
Toluene-d8 (S)	102	%.	81-114	1		02/16/12 03:24	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2.9**	mg/L	0.30	1		02/17/12 00:19	7440-44-0	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		02/15/12 08:41		
Nitrogen, Nitrite	ND	mg/L	0.10	1		02/15/12 08:41		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**39.8**	mg/L	5.0	1		02/20/12 12:18	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M02046
Pace Project No.: 5058497

Sample: MMW-P-05 **Lab ID: 5058497004** Collected: 02/13/12 12:15 Received: 02/14/12 13:10 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		02/16/12 04:30	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/16/12 04:30	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/16/12 04:30	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/16/12 04:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/16/12 04:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/16/12 04:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/16/12 04:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/16/12 04:30	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/16/12 04:30	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		02/16/12 04:30	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/16/12 04:30	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/16/12 04:30	127-18-4	
Toluene	ND	ug/L	5.0	1		02/16/12 04:30	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/16/12 04:30	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/16/12 04:30	79-01-6	
Vinyl chloride	**79.4**	ug/L	2.0	1		02/16/12 04:30	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/16/12 04:30	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	83-123	1		02/16/12 04:30	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	72-125	1		02/16/12 04:30	460-00-4	
Toluene-d8 (S)	105	%.	81-114	1		02/16/12 04:30	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**19.0**	mg/L	0.30	1		02/17/12 00:54	7440-44-0	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		02/15/12 08:46		
Nitrogen, Nitrite	ND	mg/L	0.10	1		02/15/12 08:46		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**59.5**	mg/L	25.0	1		02/20/12 12:18	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M02046
Pace Project No.: 5058497

Sample: MMW-P-10S **Lab ID: 5058497005** Collected: 02/13/12 12:52 Received: 02/14/12 13:10 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		02/16/12 05:04	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/16/12 05:04	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/16/12 05:04	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/16/12 05:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/16/12 05:04	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/16/12 05:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/16/12 05:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/16/12 05:04	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/16/12 05:04	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		02/16/12 05:04	75-09-2	
Naphthalene	**12.3**	ug/L	5.0	1		02/16/12 05:04	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/16/12 05:04	127-18-4	
Toluene	ND	ug/L	5.0	1		02/16/12 05:04	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/16/12 05:04	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/16/12 05:04	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		02/16/12 05:04	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/16/12 05:04	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%.	83-123	1		02/16/12 05:04	1868-53-7	
4-Bromofluorobenzene (S)	96	%.	72-125	1		02/16/12 05:04	460-00-4	
Toluene-d8 (S)	102	%.	81-114	1		02/16/12 05:04	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2.3**	mg/L	0.30	1		02/17/12 01:16	7440-44-0	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		02/15/12 08:47		
Nitrogen, Nitrite	ND	mg/L	0.10	1		02/15/12 08:47		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**17.1**	mg/L	5.0	1		02/20/12 12:18	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M02046
Pace Project No.: 5058497

Sample: MMW-P-10D **Lab ID: 5058497006** Collected: 02/13/12 13:23 Received: 02/14/12 13:10 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		02/16/12 05:37	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/16/12 05:37	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/16/12 05:37	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/16/12 05:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/16/12 05:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/16/12 05:37	75-35-4	
cis-1,2-Dichloroethene	**28.7**	ug/L	5.0	1		02/16/12 05:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/16/12 05:37	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/16/12 05:37	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		02/16/12 05:37	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/16/12 05:37	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/16/12 05:37	127-18-4	
Toluene	ND	ug/L	5.0	1		02/16/12 05:37	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/16/12 05:37	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/16/12 05:37	79-01-6	
Vinyl chloride	**1790**	ug/L	20.0	10		02/16/12 06:11	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/16/12 05:37	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	90	%.	83-123	1		02/16/12 05:37	1868-53-7	
4-Bromofluorobenzene (S)	103	%.	72-125	1		02/16/12 05:37	460-00-4	
Toluene-d8 (S)	104	%.	81-114	1		02/16/12 05:37	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**3.7**	mg/L	0.30	1		02/17/12 01:46	7440-44-0	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		02/15/12 08:48		
Nitrogen, Nitrite	ND	mg/L	0.10	1		02/15/12 08:48		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**112**	mg/L	25.0	1		02/20/12 12:18	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M02046
Pace Project No.: 5058497

Sample: MMW-P-08 **Lab ID: 5058497007** Collected: 02/13/12 13:54 Received: 02/14/12 13:10 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		02/16/12 06:46	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/16/12 06:46	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/16/12 06:46	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/16/12 06:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/16/12 06:46	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/16/12 06:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/16/12 06:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/16/12 06:46	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/16/12 06:46	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		02/16/12 06:46	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/16/12 06:46	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/16/12 06:46	127-18-4	
Toluene	ND	ug/L	5.0	1		02/16/12 06:46	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/16/12 06:46	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/16/12 06:46	79-01-6	
Vinyl chloride	**52.5**	ug/L	2.0	1		02/16/12 06:46	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/16/12 06:46	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	91	%.	83-123	1		02/16/12 06:46	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	72-125	1		02/16/12 06:46	460-00-4	
Toluene-d8 (S)	106	%.	81-114	1		02/16/12 06:46	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**5.5**	mg/L	0.30	1		02/17/12 02:10	7440-44-0	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		02/15/12 08:49		
Nitrogen, Nitrite	ND	mg/L	0.10	1		02/15/12 08:49		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**52.0**	mg/L	12.5	1		02/20/12 12:18	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M02046
Pace Project No.: 5058497

Sample: MMW-P-07 **Lab ID: 5058497008** Collected: 02/13/12 14:26 Received: 02/14/12 13:10 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		02/16/12 07:21	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/16/12 07:21	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/16/12 07:21	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/16/12 07:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/16/12 07:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/16/12 07:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/16/12 07:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/16/12 07:21	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/16/12 07:21	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		02/16/12 07:21	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/16/12 07:21	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/16/12 07:21	127-18-4	
Toluene	ND	ug/L	5.0	1		02/16/12 07:21	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/16/12 07:21	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/16/12 07:21	79-01-6	
Vinyl chloride	**330**	ug/L	20.0	10		02/16/12 07:54	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/16/12 07:21	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	95	%.	83-123	1		02/16/12 07:21	1868-53-7	
4-Bromofluorobenzene (S)	104	%.	72-125	1		02/16/12 07:21	460-00-4	
Toluene-d8 (S)	109	%.	81-114	1		02/16/12 07:21	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**3.3**	mg/L	0.30	1		02/17/12 02:46	7440-44-0	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		02/15/12 08:50		
Nitrogen, Nitrite	ND	mg/L	0.10	1		02/15/12 08:50		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**82.5**	mg/L	25.0	1		02/20/12 12:18	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M02046
Pace Project No.: 5058497

Sample: MMW-P-01 **Lab ID: 5058497009** Collected: 02/13/12 14:57 Received: 02/14/12 13:10 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		02/16/12 15:55	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/16/12 15:55	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/16/12 15:55	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/16/12 15:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/16/12 15:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/16/12 15:55	75-35-4	
cis-1,2-Dichloroethene	**438**	ug/L	50.0	10		02/16/12 16:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/16/12 15:55	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/16/12 15:55	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		02/16/12 15:55	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/16/12 15:55	91-20-3	
Tetrachloroethene	**15.0**	ug/L	5.0	1		02/16/12 15:55	127-18-4	
Toluene	ND	ug/L	5.0	1		02/16/12 15:55	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/16/12 15:55	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/16/12 15:55	79-01-6	
Vinyl chloride	**2270**	ug/L	20.0	10		02/16/12 16:31	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/16/12 15:55	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	91	%.	83-123	1		02/16/12 15:55	1868-53-7	
4-Bromofluorobenzene (S)	106	%.	72-125	1		02/16/12 15:55	460-00-4	
Toluene-d8 (S)	105	%.	81-114	1		02/16/12 15:55	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**3.8**	mg/L	0.30	1		02/17/12 03:09	7440-44-0	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		02/15/12 08:51		
Nitrogen, Nitrite	ND	mg/L	0.10	1		02/15/12 08:51		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**56.0**	mg/L	25.0	1		02/20/12 12:18	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M02046
Pace Project No.: 5058497

Sample: MMW-P-06 **Lab ID: 5058497010** Collected: 02/13/12 15:27 Received: 02/14/12 13:10 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		02/16/12 17:04	71-43-2	
Carbon tetrachloride	ND	ug/L	50.0	10		02/16/12 17:04	56-23-5	
Chloroform	ND	ug/L	50.0	10		02/16/12 17:04	67-66-3	
1,1-Dichloroethane	ND	ug/L	50.0	10		02/16/12 17:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	50.0	10		02/16/12 17:04	107-06-2	
1,1-Dichloroethene	ND	ug/L	50.0	10		02/16/12 17:04	75-35-4	
cis-1,2-Dichloroethene	**2800**	ug/L	50.0	10		02/16/12 17:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	50.0	10		02/16/12 17:04	156-60-5	
Ethylbenzene	ND	ug/L	50.0	10		02/16/12 17:04	100-41-4	
Methylene Chloride	ND	ug/L	50.0	10		02/16/12 17:04	75-09-2	
Naphthalene	ND	ug/L	50.0	10		02/16/12 17:04	91-20-3	
Tetrachloroethene	ND	ug/L	50.0	10		02/16/12 17:04	127-18-4	
Toluene	ND	ug/L	50.0	10		02/16/12 17:04	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	50.0	10		02/16/12 17:04	71-55-6	
Trichloroethene	ND	ug/L	50.0	10		02/16/12 17:04	79-01-6	
Vinyl chloride	**10100**	ug/L	200	100		02/16/12 17:40	75-01-4	
Xylene (Total)	ND	ug/L	100	10		02/16/12 17:04	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	92	%.	83-123	10		02/16/12 17:04	1868-53-7	D4
4-Bromofluorobenzene (S)	102	%.	72-125	10		02/16/12 17:04	460-00-4	
Toluene-d8 (S)	110	%.	81-114	10		02/16/12 17:04	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**3.9**	mg/L	0.30	1		02/17/12 03:39	7440-44-0	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		02/15/12 08:52		
Nitrogen, Nitrite	ND	mg/L	0.10	1		02/15/12 08:52		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**38.0**	mg/L	12.5	1		02/20/12 12:18	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M02046
Pace Project No.: 5058497

Sample: MMW-9S **Lab ID: 5058497011** Collected: 02/13/12 15:57 Received: 02/14/12 13:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	25.0	5		02/16/12 08:29	71-43-2	1d
Carbon tetrachloride	ND	ug/L	25.0	5		02/16/12 08:29	56-23-5	
Chloroform	ND	ug/L	25.0	5		02/16/12 08:29	67-66-3	
1,1-Dichloroethane	ND	ug/L	25.0	5		02/16/12 08:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	25.0	5		02/16/12 08:29	107-06-2	
1,1-Dichloroethene	ND	ug/L	25.0	5		02/16/12 08:29	75-35-4	
cis-1,2-Dichloroethene	**2040**	ug/L	125	25		02/16/12 10:17	156-59-2	
trans-1,2-Dichloroethene	**60.8**	ug/L	25.0	5		02/16/12 08:29	156-60-5	
Ethylbenzene	ND	ug/L	25.0	5		02/16/12 08:29	100-41-4	
Methylene Chloride	ND	ug/L	25.0	5		02/16/12 08:29	75-09-2	
Naphthalene	ND	ug/L	25.0	5		02/16/12 08:29	91-20-3	
Tetrachloroethene	ND	ug/L	25.0	5		02/16/12 08:29	127-18-4	
Toluene	ND	ug/L	25.0	5		02/16/12 08:29	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	25.0	5		02/16/12 08:29	71-55-6	
Trichloroethene	ND	ug/L	25.0	5		02/16/12 08:29	79-01-6	
Vinyl chloride	**1140**	ug/L	10.0	5		02/16/12 08:29	75-01-4	
Xylene (Total)	ND	ug/L	50.0	5		02/16/12 08:29	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%.	83-123	5		02/16/12 08:29	1868-53-7	D4
4-Bromofluorobenzene (S)	102	%.	72-125	5		02/16/12 08:29	460-00-4	
Toluene-d8 (S)	108	%.	81-114	5		02/16/12 08:29	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**4.4**	mg/L	0.30	1		02/16/12 21:39	7440-44-0	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		02/15/12 08:53		
Nitrogen, Nitrite	**0.14**	mg/L	0.10	1		02/15/12 08:53		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**125**	mg/L	50.0	1		02/20/12 12:18	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M02046
Pace Project No.: 5058497

Sample: Dup-2 **Lab ID: 5058497012** Collected: 02/13/12 08:00 Received: 02/14/12 13:10 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		02/18/12 03:25	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/18/12 03:25	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/18/12 03:25	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/18/12 03:25	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/18/12 03:25	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/18/12 03:25	75-35-4	
cis-1,2-Dichloroethene	**60.5**	ug/L	5.0	1		02/18/12 03:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/18/12 03:25	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/18/12 03:25	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		02/18/12 03:25	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/18/12 03:25	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/18/12 03:25	127-18-4	
Toluene	ND	ug/L	5.0	1		02/18/12 03:25	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/18/12 03:25	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/18/12 03:25	79-01-6	
Vinyl chloride	**257**	ug/L	2.0	1		02/18/12 03:25	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/18/12 03:25	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	93	%.	83-123	1		02/18/12 03:25	1868-53-7	
4-Bromofluorobenzene (S)	99	%.	72-125	1		02/18/12 03:25	460-00-4	
Toluene-d8 (S)	99	%.	81-114	1		02/18/12 03:25	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2.8**	mg/L	0.30	1		02/17/12 04:45	7440-44-0	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		02/15/12 09:52		
Nitrogen, Nitrite	ND	mg/L	0.10	1		02/15/12 09:52		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**38.1**	mg/L	5.0	1		02/20/12 12:18	14808-79-8	N2

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QUALITY CONTROL DATA

Project: MI Plaza M02046
Pace Project No.: 5058497

QC Batch: MSV/39622 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5058497001, 5058497002, 5058497003, 5058497004, 5058497005, 5058497006, 5058497007, 5058497008, 5058497011

METHOD BLANK: 688473 Matrix: Water
Associated Lab Samples: 5058497001, 5058497002, 5058497003, 5058497004, 5058497005, 5058497006, 5058497007, 5058497008, 5058497011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	02/16/12 01:08	
1,1-Dichloroethane	ug/L	ND	5.0	02/16/12 01:08	
1,1-Dichloroethene	ug/L	ND	5.0	02/16/12 01:08	
1,2-Dichloroethane	ug/L	ND	5.0	02/16/12 01:08	
Benzene	ug/L	ND	5.0	02/16/12 01:08	
Carbon tetrachloride	ug/L	ND	5.0	02/16/12 01:08	
Chloroform	ug/L	ND	5.0	02/16/12 01:08	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/16/12 01:08	
Ethylbenzene	ug/L	ND	5.0	02/16/12 01:08	
Methylene Chloride	ug/L	ND	5.0	02/16/12 01:08	
Naphthalene	ug/L	ND	5.0	02/16/12 01:08	
Tetrachloroethene	ug/L	ND	5.0	02/16/12 01:08	
Toluene	ug/L	ND	5.0	02/16/12 01:08	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/16/12 01:08	
Trichloroethene	ug/L	ND	5.0	02/16/12 01:08	
Vinyl chloride	ug/L	ND	2.0	02/16/12 01:08	
Xylene (Total)	ug/L	ND	10.0	02/16/12 01:08	
4-Bromofluorobenzene (S)	%.	103	72-125	02/16/12 01:08	
Dibromofluoromethane (S)	%.	105	83-123	02/16/12 01:08	
Toluene-d8 (S)	%.	105	81-114	02/16/12 01:08	

LABORATORY CONTROL SAMPLE: 688474

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	45.3	91	69-126	
1,1-Dichloroethane	ug/L	50	52.7	105	70-127	
1,1-Dichloroethene	ug/L	50	50.2	100	75-145	
1,2-Dichloroethane	ug/L	50	48.6	97	71-127	
Benzene	ug/L	50	44.4	89	76-123	
Carbon tetrachloride	ug/L	50	39.7	79	65-125	
Chloroform	ug/L	50	48.6	97	73-122	
cis-1,2-Dichloroethene	ug/L	50	45.9	92	79-129	
Ethylbenzene	ug/L	50	52.1	104	75-120	
Methylene Chloride	ug/L	50	46.1	92	61-138	
Naphthalene	ug/L	50	43.1	86	62-130	
Tetrachloroethene	ug/L	50	46.5	93	57-125	
Toluene	ug/L	50	46.1	92	72-124	
trans-1,2-Dichloroethene	ug/L	50	49.9	100	71-145	
Trichloroethene	ug/L	50	46.8	94	77-122	
Vinyl chloride	ug/L	50	52.4	105	61-146	

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QUALITY CONTROL DATA

Project: MI Plaza M02046
Pace Project No.: 5058497

LABORATORY CONTROL SAMPLE: 688474

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	139	93	72-126	
4-Bromofluorobenzene (S)	%.			98	72-125	
Dibromofluoromethane (S)	%.			104	83-123	
Toluene-d8 (S)	%.			97	81-114	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 688475 688476

Parameter	Units	5058497011 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	250	250	223	238	89	95	37-136	6	20	
1,1-Dichloroethane	ug/L	ND	250	250	242	277	97	111	47-138	13	20	
1,1-Dichloroethene	ug/L	ND	250	250	228	252	91	101	54-152	10	20	
1,2-Dichloroethane	ug/L	ND	250	250	235	263	94	105	42-139	11	20	
Benzene	ug/L	ND	250	250	211	226	85	90	52-134	7	20	
Carbon tetrachloride	ug/L	ND	250	250	169	186	68	74	26-136	9	20	
Chloroform	ug/L	ND	250	250	218	244	87	98	50-134	11	20	
cis-1,2-Dichloroethene	ug/L	2040	250	250	2190	2070	59	11	48-145	6	20	M0
Ethylbenzene	ug/L	ND	250	250	240	250	96	100	29-132	4	20	
Methylene Chloride	ug/L	ND	250	250	243	241	97	97	47-141	.6	20	
Naphthalene	ug/L	ND	250	250	204	217	82	87	40-124	6	20	
Tetrachloroethene	ug/L	ND	250	250	231	277	92	111	30-124	18	20	
Toluene	ug/L	ND	250	250	237	256	95	102	42-130	8	20	
trans-1,2-Dichloroethene	ug/L	60.8	250	250	310	327	100	107	48-144	6	20	
Trichloroethene	ug/L	ND	250	250	224	237	90	95	44-130	6	20	
Vinyl chloride	ug/L	1140	250	250	1340	1380	81	96	45-159	3	20	
Xylene (Total)	ug/L	ND	750	750	700	742	93	99	29-131	6	20	
4-Bromofluorobenzene (S)	%.						95	98	72-125		20	
Dibromofluoromethane (S)	%.						106	100	83-123		20	
Toluene-d8 (S)	%.						98	103	81-114		20	

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QUALITY CONTROL DATA

Project: MI Plaza M02046
Pace Project No.: 5058497

QC Batch: MSV/39653 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 5058497009, 5058497010

METHOD BLANK: 689090 | Matrix: Water
Associated Lab Samples: 5058497009, 5058497010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	02/16/12 13:30	
1,1-Dichloroethane	ug/L	ND	5.0	02/16/12 13:30	
1,1-Dichloroethene	ug/L	ND	5.0	02/16/12 13:30	
1,2-Dichloroethane	ug/L	ND	5.0	02/16/12 13:30	
Benzene	ug/L	ND	5.0	02/16/12 13:30	
Carbon tetrachloride	ug/L	ND	5.0	02/16/12 13:30	
Chloroform	ug/L	ND	5.0	02/16/12 13:30	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/16/12 13:30	
Ethylbenzene	ug/L	ND	5.0	02/16/12 13:30	
Methylene Chloride	ug/L	ND	5.0	02/16/12 13:30	
Naphthalene	ug/L	ND	5.0	02/16/12 13:30	
Tetrachloroethene	ug/L	ND	5.0	02/16/12 13:30	
Toluene	ug/L	ND	5.0	02/16/12 13:30	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/16/12 13:30	
Trichloroethene	ug/L	ND	5.0	02/16/12 13:30	
Vinyl chloride	ug/L	ND	2.0	02/16/12 13:30	
Xylene (Total)	ug/L	ND	10.0	02/16/12 13:30	
4-Bromofluorobenzene (S)	%.	107	72-125	02/16/12 13:30	
Dibromofluoromethane (S)	%.	97	83-123	02/16/12 13:30	
Toluene-d8 (S)	%.	108	81-114	02/16/12 13:30	

LABORATORY CONTROL SAMPLE: 689091

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	48.8	98	69-126	
1,1-Dichloroethane	ug/L	50	57.9	116	70-127	
1,1-Dichloroethene	ug/L	50	56.1	112	75-145	
1,2-Dichloroethane	ug/L	50	49.8	100	71-127	
Benzene	ug/L	50	47.2	94	76-123	
Carbon tetrachloride	ug/L	50	41.5	83	65-125	
Chloroform	ug/L	50	51.6	103	73-122	
cis-1,2-Dichloroethene	ug/L	50	50.6	101	79-129	
Ethylbenzene	ug/L	50	57.2	114	75-120	
Methylene Chloride	ug/L	50	56.1	112	61-138	
Naphthalene	ug/L	50	44.7	89	62-130	
Tetrachloroethene	ug/L	50	52.4	105	57-125	
Toluene	ug/L	50	52.7	105	72-124	
trans-1,2-Dichloroethene	ug/L	50	57.6	115	71-145	
Trichloroethene	ug/L	50	49.1	98	77-122	
Vinyl chloride	ug/L	50	67.2	134	61-146	
Xylene (Total)	ug/L	150	153	102	72-126	

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QUALITY CONTROL DATA

Project: MI Plaza M02046
Pace Project No.: 5058497

LABORATORY CONTROL SAMPLE: 689091

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%.			99	72-125	
Dibromofluoromethane (S)	%.			100	83-123	
Toluene-d8 (S)	%.			102	81-114	

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

QUALITY CONTROL DATA

Project: MI Plaza M02046
Pace Project No.: 5058497

QC Batch: MSV/39690
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Associated Lab Samples: 5058497012

METHOD BLANK: 689960
Matrix: Water
Associated Lab Samples: 5058497012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	02/18/12 02:52	
1,1-Dichloroethane	ug/L	ND	5.0	02/18/12 02:52	
1,1-Dichloroethene	ug/L	ND	5.0	02/18/12 02:52	
1,2-Dichloroethane	ug/L	ND	5.0	02/18/12 02:52	
Benzene	ug/L	ND	5.0	02/18/12 02:52	
Carbon tetrachloride	ug/L	ND	5.0	02/18/12 02:52	
Chloroform	ug/L	ND	5.0	02/18/12 02:52	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/18/12 02:52	
Ethylbenzene	ug/L	ND	5.0	02/18/12 02:52	
Methylene Chloride	ug/L	ND	5.0	02/18/12 02:52	
Naphthalene	ug/L	ND	5.0	02/18/12 02:52	
Tetrachloroethene	ug/L	ND	5.0	02/18/12 02:52	
Toluene	ug/L	ND	5.0	02/18/12 02:52	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/18/12 02:52	
Trichloroethene	ug/L	ND	5.0	02/18/12 02:52	
Vinyl chloride	ug/L	ND	2.0	02/18/12 02:52	
Xylene (Total)	ug/L	ND	10.0	02/18/12 02:52	
4-Bromofluorobenzene (S)	%.	105	72-125	02/18/12 02:52	
Dibromofluoromethane (S)	%.	99	83-123	02/18/12 02:52	
Toluene-d8 (S)	%.	102	81-114	02/18/12 02:52	

LABORATORY CONTROL SAMPLE: 689961

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	46.5	93	69-126	
1,1-Dichloroethane	ug/L	50	55.4	111	70-127	
1,1-Dichloroethene	ug/L	50	52.7	105	75-145	
1,2-Dichloroethane	ug/L	50	48.0	96	71-127	
Benzene	ug/L	50	44.8	90	76-123	
Carbon tetrachloride	ug/L	50	35.7	71	65-125	
Chloroform	ug/L	50	49.6	99	73-122	
cis-1,2-Dichloroethene	ug/L	50	48.3	97	79-129	
Ethylbenzene	ug/L	50	50.1	100	75-120	
Methylene Chloride	ug/L	50	48.0	96	61-138	
Naphthalene	ug/L	50	43.2	86	62-130	
Tetrachloroethene	ug/L	50	45.6	91	57-125	
Toluene	ug/L	50	47.6	95	72-124	
trans-1,2-Dichloroethene	ug/L	50	52.6	105	71-145	
Trichloroethene	ug/L	50	52.1	104	77-122	
Vinyl chloride	ug/L	50	62.3	125	61-146	
Xylene (Total)	ug/L	150	150	100	72-126	

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QUALITY CONTROL DATA

Project: MI Plaza M02046
Pace Project No.: 5058497

LABORATORY CONTROL SAMPLE: 689961

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%.			96	72-125	
Dibromofluoromethane (S)	%.			102	83-123	
Toluene-d8 (S)	%.			98	81-114	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 689962 689963

Parameter	Units	5058520005 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	48.7	49.4	97	99	37-136	1	20	
1,1-Dichloroethane	ug/L	ND	50	50	63.5	63.4	127	127	47-138	.3	20	
1,1-Dichloroethene	ug/L	ND	50	50	56.4	56.5	113	113	54-152	.1	20	
1,2-Dichloroethane	ug/L	ND	50	50	55.8	57.5	112	115	42-139	3	20	
Benzene	ug/L	ND	50	50	55.6	53.6	111	107	52-134	4	20	
Carbon tetrachloride	ug/L	ND	50	50	40.0	37.7	80	75	26-136	6	20	
Chloroform	ug/L	ND	50	50	54.5	54.5	109	109	50-134	.02	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	54.5	51.4	109	103	48-145	6	20	
Ethylbenzene	ug/L	ND	50	50	57.5	59.6	115	119	29-132	3	20	
Methylene Chloride	ug/L	ND	50	50	57.9	52.3	116	105	47-141	10	20	
Naphthalene	ug/L	ND	50	50	50.2	47.2	100	94	40-124	6	20	
Tetrachloroethene	ug/L	ND	50	50	55.2	51.6	110	103	30-124	7	20	
Toluene	ug/L	ND	50	50	55.2	51.8	110	104	42-130	6	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	53.7	56.5	107	113	48-144	5	20	
Trichloroethene	ug/L	ND	50	50	52.1	51.3	104	103	44-130	1	20	
Vinyl chloride	ug/L	ND	50	50	69.7	69.9	139	140	45-159	.2	20	
Xylene (Total)	ug/L	ND	150	150	179	165	119	110	29-131	8	20	
4-Bromofluorobenzene (S)	%.						99	101	72-125		20	
Dibromofluoromethane (S)	%.						92	101	83-123		20	
Toluene-d8 (S)	%.						102	106	81-114		20	

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QUALITY CONTROL DATA

Project: MI Plaza M02046
Pace Project No.: 5058497

QC Batch: OHIO/1628 | Analysis Method: SM 5310C
QC Batch Method: SM 5310C | Analysis Description: 5310C TOC
Associated Lab Samples: 5058497001, 5058497002, 5058497003, 5058497004, 5058497005, 5058497006, 5058497007, 5058497008, 5058497009, 5058497010, 5058497011, 5058497012

METHOD BLANK: 689055 | Matrix: Water
Associated Lab Samples: 5058497001, 5058497002, 5058497003, 5058497004, 5058497005, 5058497006, 5058497007, 5058497008, 5058497009, 5058497010, 5058497011, 5058497012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	0.30	02/16/12 19:04	N2

LABORATORY CONTROL SAMPLE: 689056

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	4.9	98	80-120	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 689058 689059

Parameter	Units	5058497011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	4.4	4	4	8.6	8.7	107	108	75-125	.9	20	N2

SAMPLE DUPLICATE: 689057

Parameter	Units	5058497011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	4.4	4.4	.5	20	N2

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QUALITY CONTROL DATA

Project: MI Plaza M02046
Pace Project No.: 5058497

QC Batch: WETA/7517 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 5058497001, 5058497002, 5058497003, 5058497004, 5058497005, 5058497006, 5058497007, 5058497008, 5058497009, 5058497010, 5058497011, 5058497012

METHOD BLANK: 687932 | Matrix: Water
Associated Lab Samples: 5058497001, 5058497002, 5058497003, 5058497004, 5058497005, 5058497006, 5058497007, 5058497008, 5058497009, 5058497010, 5058497011, 5058497012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	02/15/12 08:31	
Nitrogen, Nitrite	mg/L	ND	0.10	02/15/12 08:31	

LABORATORY CONTROL SAMPLE: 687933

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2	2.0	100	90-110	
Nitrogen, Nitrite	mg/L	2	1.9	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 687934 687935

Parameter	Units	5058497001 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	0.12	2	2	1.8	1.8	85	84	90-110	1	20	M3
Nitrogen, Nitrite	mg/L	ND	2	2	1.9	1.9	90	89	90-110	1	20	

MATRIX SPIKE SAMPLE: 687936

Parameter	Units	5058497011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	ND	2	1.9	95	90-110	
Nitrogen, Nitrite	mg/L	0.14	2	2.0	91	90-110	

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QUALITY CONTROL DATA

Project: MI Plaza M02046
Pace Project No.: 5058497

QC Batch: WETA/7546 | Analysis Method: ASTM D516-90,02
QC Batch Method: ASTM D516-90,02 | Analysis Description: ASTM D516-9002 Sulfate Water
Associated Lab Samples: 5058497001, 5058497002, 5058497003, 5058497004, 5058497005, 5058497006, 5058497007, 5058497008, 5058497009, 5058497010, 5058497011, 5058497012

METHOD BLANK: 690518 | Matrix: Water
Associated Lab Samples: 5058497001, 5058497002, 5058497003, 5058497004, 5058497005, 5058497006, 5058497007, 5058497008, 5058497009, 5058497010, 5058497011, 5058497012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	5.0	02/20/12 12:18	N2

LABORATORY CONTROL SAMPLE: 690519

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 690520 690521

Parameter	Units	5058497011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	125	200	200	336	350	106	112	90-110	4	20	M0,N2

MATRIX SPIKE SAMPLE: 690522

Parameter	Units	5058724001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	114	100	196	82	90-110	M0,N2

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QUALIFIERS

Project: MI Plaza M02046
Pace Project No.: 5058497

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1d	Benzene ND at an estimated RL of 5ug/L, based on the MDL. aa 2/16/12
D4	Sample was diluted due to the presence of high levels of target analytes.
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 M02046
Pace Project No.: 5058497

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5058497001	**MMW-P-02**	EPA 8260	MSV/39622		
5058497002	**MMW-P-03D**	EPA 8260	MSV/39622		
5058497003	**MMW-P-03S**	EPA 8260	MSV/39622		
5058497004	**MMW-P-05**	EPA 8260	MSV/39622		
5058497005	**MMW-P-10S**	EPA 8260	MSV/39622		
5058497006	**MMW-P-10D**	EPA 8260	MSV/39622		
5058497007	**MMW-P-08**	EPA 8260	MSV/39622		
5058497008	**MMW-P-07**	EPA 8260	MSV/39622		
5058497009	**MMW-P-01**	EPA 8260	MSV/39653		
5058497010	**MMW-P-06**	EPA 8260	MSV/39653		
5058497011	**MMW-9S**	EPA 8260	MSV/39622		
5058497012	**Dup-2**	EPA 8260	MSV/39690		
5058497001	**MMW-P-02**	SM 5310C	OHIO/1628		
5058497002	**MMW-P-03D**	SM 5310C	OHIO/1628		
5058497003	**MMW-P-03S**	SM 5310C	OHIO/1628		
5058497004	**MMW-P-05**	SM 5310C	OHIO/1628		
5058497005	**MMW-P-10S**	SM 5310C	OHIO/1628		
5058497006	**MMW-P-10D**	SM 5310C	OHIO/1628		
5058497007	**MMW-P-08**	SM 5310C	OHIO/1628		
5058497008	**MMW-P-07**	SM 5310C	OHIO/1628		
5058497009	**MMW-P-01**	SM 5310C	OHIO/1628		
5058497010	**MMW-P-06**	SM 5310C	OHIO/1628		
5058497011	**MMW-9S**	SM 5310C	OHIO/1628		
5058497012	**Dup-2**	SM 5310C	OHIO/1628		
5058497001	**MMW-P-02**	EPA 353.2	WETA/7517		
5058497002	**MMW-P-03D**	EPA 353.2	WETA/7517		
5058497003	**MMW-P-03S**	EPA 353.2	WETA/7517		
5058497004	**MMW-P-05**	EPA 353.2	WETA/7517		
5058497005	**MMW-P-10S**	EPA 353.2	WETA/7517		
5058497006	**MMW-P-10D**	EPA 353.2	WETA/7517		
5058497007	**MMW-P-08**	EPA 353.2	WETA/7517		
5058497008	**MMW-P-07**	EPA 353.2	WETA/7517		
5058497009	**MMW-P-01**	EPA 353.2	WETA/7517		
5058497010	**MMW-P-06**	EPA 353.2	WETA/7517		
5058497011	**MMW-9S**	EPA 353.2	WETA/7517		
5058497012	**Dup-2**	EPA 353.2	WETA/7517		
5058497001	**MMW-P-02**	ASTM D516-90,02	WETA/7546		
5058497002	**MMW-P-03D**	ASTM D516-90,02	WETA/7546		
5058497003	**MMW-P-03S**	ASTM D516-90,02	WETA/7546		
5058497004	**MMW-P-05**	ASTM D516-90,02	WETA/7546		
5058497005	**MMW-P-10S**	ASTM D516-90,02	WETA/7546		
5058497006	**MMW-P-10D**	ASTM D516-90,02	WETA/7546		
5058497007	**MMW-P-08**	ASTM D516-90,02	WETA/7546		
5058497008	**MMW-P-07**	ASTM D516-90,02	WETA/7546		
5058497009	**MMW-P-01**	ASTM D516-90,02	WETA/7546		
5058497010	**MMW-P-06**	ASTM D516-90,02	WETA/7546		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MI Plaza M02046
Pace Project No.: 5058497

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5058497011	**MMW-9S**	ASTM D516-90,02	WETA/7546		
5058497012	**Dup-2**	ASTM D516-90,02	WETA/7546		

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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.

1462052

Section A Required Client Information:

Company: Mundell & Assoc.
Address: 110 S. Downey Ave Indpls, IN
Email To:
Phone: 317-630-9060 Fax:
Requested Due Date/TAT: SAT

Section B Required Project Information:

Report To: Sarah Webb
Copy To:
Purchase Order No.:
Project Name: M1 Plaza
Project Number: M02046

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): S.L. VOCs 8260; TOC 415.1; Nitrate 353.2; Nitrite 353.2; Sulfate 375.4

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 5058497
1	MMW-P-02	WT	G			2/13/12	10:16A		5	1	1		3							001
2	MMW-P-03D						10:49A		5	1	1		3							002
3	MMW-P-03S						11:21A		5	1	1		3							003
4	MMW-P-05						12:15p		5	1	1		3							004
5	MMW-P-10S						12:52p		5	1	1		3							005
6	MMW-P-10D						1:23p		5	1	1		3							006
7	MMW-P-08						1:54p		5	1	1		3							007
8	MMW-P-07						2:26p		5	1	1		3							008
9	MMW-P-01						2:57p		5	1	1		3							009
10	MMW-P-06						3:27p		5	1	1		3							010
11	MMW-9S						3:57p		5	1	1		3							011
12	DUP-2								5	1	1		2							012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
		2/13/12	1:10	Zakiya Tarh	2/14/12	110
		2/14/12				

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

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Andy Dammeyer
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 2/13/12

ORIGINAL

WF1 Pace Kee 2-14-12 1250

*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.

1462053

Section A Required Client Information:

Company: Mundell & Associates
Address: 1105. Downey Ave
Indpls, IN 46219
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: M1 Plaza
Project Number: M01046

Section C Invoice Information:

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

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE:

Section D Required Client Information

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	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. VOCs 8260	TOC 415.1	Nitrate 353.2	Nitrite 353.2	Sulfate 375.4	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MS	WT	G			2/13/12			5	1	1		3											5058497
2	MSD	↓	↓						5	1	1		3											(011) ↓
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]	2/13/12	1.10	[signature]	2/14/12	1.10	0.5	Y	N	Y
		2/14/12								

WF/Pace 2-14-12 Kee 1250

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Andy Dannemeyer
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 2/13/12

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

Sample Condition Upon Receipt

Pace Analytical

Client Name: Mundell

Project # 5058497

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

Tracking #:

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

Date/Time 5035A kits placed in freezer

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

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

Cooler Temperature (Corrected, if applicable) 0.5°C Ice Visible in Sample Containers: ☐ yes ☒ no

Temp should be above freezing to 6°C

Date and Initials of person examining contents: Kee 2-14-12

				Comments:
Chain of Custody Present:	☒Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☒Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☒Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☒Yes	☐No	☐N/A	4.
Short Hold Time Analysis (<72hr):	☒Yes	☐No	☐N/A	5. Nitrates
Rush Turn Around Time Requested:	☐Yes	☒No	☐N/A	6.
Containers Intact:	☒Yes	☐No	☐N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	☐Yes	☒No	☐N/A	8. Some VOA vials have no dates or times.
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-P-02, ~~mmw-95~~ Kee 2-14-12, MS (see below)
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: 2/15/12 via phone/email

Comments/ Resolution:

(10) 2 vials ea. for mmw-95 & mmw-P-07.

MS/MSD on mmw-95. OK that Nitrates used different sample to meet hold time. 2/15/12 TMS

Project Manager Review: [signature] Date: 2/14/12

Sample Container Count

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IENT: Mundell

C PAGE 1 of 2

C ID# 1462052

Project # 5058497

mple Line Item	DG9H	AG1U	WGFU	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H				Comments
1	3								1		1					
2																
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

Sample Container Count

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LIENT: Mundell

DC PAGE 2 of 2
DC ID# 1462053

Project # 5058497

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																
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

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February 28, 2012

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

RE: Project: MI Plaza M01046
Pace Project No.: 5058530

Dear Ms. Webb:
Enclosed are the analytical results for sample(s) received by the laboratory on February 15, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Tina Sayer

Tina Sayer

tina.sayer@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: MI Plaza M01046
Pace Project No.: 5058530

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

Ohio Certification IDs

1233 Dublin Road, Columbus, OH 43215
Indiana Drinking Water Certification #: C-OH-11
Kentucky Drinking Water Certification #: 90132
NVLAP Certification #: 90132
Ohio Microbiology Certification #: 943
Ohio Drinking Water Certification #: 1030
Ohio VAP Certification #: CL0054

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SAMPLE SUMMARY

Project: MI Plaza M01046
Pace Project No.: 5058530

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5058530001	**MMW-6D**	Water	02/14/12 10:12	02/15/12 11:59
5058530002	**MMW-4D**	Water	02/14/12 10:50	02/15/12 11:59
5058530003	**MMW-14D**	Water	02/14/12 11:23	02/15/12 11:59
5058530004	**MMW-12S**	Water	02/14/12 11:46	02/15/12 11:59
5058530005	**MMW-13D**	Water	02/14/12 12:12	02/15/12 11:59
5058530006	**MMW-11S**	Water	02/14/12 12:48	02/15/12 11:59
5058530007	**MMW-11D**	Water	02/14/12 13:10	02/15/12 11:59
5058530008	**MMW-8S**	Water	02/14/12 13:34	02/15/12 11:59
5058530009	**MMW-10S**	Water	02/14/12 14:08	02/15/12 11:59
5058530010	**MMW-1S**	Water	02/14/12 14:42	02/15/12 11:59
5058530011	**Trip Blank**	Water	02/14/12 08:00	02/15/12 11:59

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SAMPLE ANALYTE COUNT

Project: MI Plaza M01046
Pace Project No.: 5058530

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5058530001	**MMW-6D**	EPA 8260	SLB	20
5058530002	**MMW-4D**	EPA 8260	ALA	20
5058530003	**MMW-14D**	EPA 8260	ALA	20
5058530004	**MMW-12S**	EPA 8260	SLB	20
5058530005	**MMW-13D**	EPA 8260	SLB	20
5058530006	**MMW-11S**	EPA 8260	SLB	20
5058530007	**MMW-11D**	EPA 8260	SLB	20
5058530008	**MMW-8S**	EPA 8260	SLB	20
		SM 5310C	GR1	1
		EPA 353.2	ILP	2
		ASTM D516-90,02	TPD	1
5058530009	**MMW-10S**	EPA 8260	SLB	20
		SM 5310C	GR1	1
		EPA 353.2	ILP	2
		ASTM D516-90,02	TPD	1
5058530010	**MMW-1S**	EPA 8260	SLB	20
		SM 5310C	GR1	1
		EPA 353.2	ILP	2
		ASTM D516-90,02	TPD	1
5058530011	**Trip Blank**	EPA 8260	SLB	20

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5058530

Sample: MMW-6D **Lab ID: 5058530001** Collected: 02/14/12 10:12 Received: 02/15/12 11:59 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		02/21/12 15:24	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/21/12 15:24	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/21/12 15:24	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/21/12 15:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/21/12 15:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/21/12 15:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/21/12 15:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/21/12 15:24	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/21/12 15:24	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		02/21/12 15:24	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/21/12 15:24	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/21/12 15:24	127-18-4	
Toluene	ND	ug/L	5.0	1		02/21/12 15:24	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/21/12 15:24	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/21/12 15:24	79-01-6	
Vinyl chloride	**43.9**	ug/L	2.0	1		02/21/12 15:24	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/21/12 15:24	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	83-123	1		02/21/12 15:24	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	72-125	1		02/21/12 15:24	460-00-4	
Toluene-d8 (S)	98	%.	81-114	1		02/21/12 15:24	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5058530

Sample: MMW-4D **Lab ID: 5058530002** Collected: 02/14/12 10:50 Received: 02/15/12 11:59 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		02/18/12 10:52	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/18/12 10:52	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/18/12 10:52	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/18/12 10:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/18/12 10:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/18/12 10:52	75-35-4	
cis-1,2-Dichloroethene	**639**	ug/L	50.0	10		02/18/12 11:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/18/12 10:52	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/18/12 10:52	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		02/18/12 10:52	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/18/12 10:52	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/18/12 10:52	127-18-4	
Toluene	ND	ug/L	5.0	1		02/18/12 10:52	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/18/12 10:52	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/18/12 10:52	79-01-6	
Vinyl chloride	**237**	ug/L	2.0	1		02/18/12 10:52	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/18/12 10:52	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	90	%.	83-123	1		02/18/12 10:52	1868-53-7	
4-Bromofluorobenzene (S)	110	%.	72-125	1		02/18/12 10:52	460-00-4	
Toluene-d8 (S)	108	%.	81-114	1		02/18/12 10:52	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5058530

Sample: MMW-14D **Lab ID: 5058530003** Collected: 02/14/12 11:23 Received: 02/15/12 11:59 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		02/18/12 12:03	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/18/12 12:03	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/18/12 12:03	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/18/12 12:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/18/12 12:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/18/12 12:03	75-35-4	
cis-1,2-Dichloroethene	**1080**	ug/L	50.0	10		02/18/12 12:40	156-59-2	
trans-1,2-Dichloroethene	**17.4**	ug/L	5.0	1		02/18/12 12:03	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/18/12 12:03	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		02/18/12 12:03	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/18/12 12:03	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/18/12 12:03	127-18-4	
Toluene	ND	ug/L	5.0	1		02/18/12 12:03	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/18/12 12:03	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/18/12 12:03	79-01-6	
Vinyl chloride	**89.7**	ug/L	2.0	1		02/18/12 12:03	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/18/12 12:03	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	88	%.	83-123	1		02/18/12 12:03	1868-53-7	
4-Bromofluorobenzene (S)	101	%.	72-125	1		02/18/12 12:03	460-00-4	
Toluene-d8 (S)	103	%.	81-114	1		02/18/12 12:03	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5058530

Sample: MMW-12S **Lab ID: 5058530004** Collected: 02/14/12 11:46 Received: 02/15/12 11:59 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		02/21/12 16:01	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/21/12 16:01	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/21/12 16:01	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/21/12 16:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/21/12 16:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/21/12 16:01	75-35-4	
cis-1,2-Dichloroethene	**24.0**	ug/L	5.0	1		02/21/12 16:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/21/12 16:01	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/21/12 16:01	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		02/21/12 16:01	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/21/12 16:01	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/21/12 16:01	127-18-4	
Toluene	ND	ug/L	5.0	1		02/21/12 16:01	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/21/12 16:01	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/21/12 16:01	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		02/21/12 16:01	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/21/12 16:01	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%.	83-123	1		02/21/12 16:01	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	72-125	1		02/21/12 16:01	460-00-4	
Toluene-d8 (S)	102	%.	81-114	1		02/21/12 16:01	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5058530

Sample: MMW-13D **Lab ID: 5058530005** Collected: 02/14/12 12:12 Received: 02/15/12 11:59 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		02/21/12 17:54	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/21/12 17:54	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/21/12 17:54	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/21/12 17:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/21/12 17:54	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/21/12 17:54	75-35-4	
cis-1,2-Dichloroethene	**331**	ug/L	50.0	10		02/22/12 22:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/21/12 17:54	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/21/12 17:54	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		02/21/12 17:54	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/21/12 17:54	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/21/12 17:54	127-18-4	
Toluene	ND	ug/L	5.0	1		02/21/12 17:54	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/21/12 17:54	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/21/12 17:54	79-01-6	
Vinyl chloride	**9.9**	ug/L	2.0	1		02/21/12 17:54	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/21/12 17:54	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	83-123	1		02/21/12 17:54	1868-53-7	
4-Bromofluorobenzene (S)	101	%.	72-125	1		02/21/12 17:54	460-00-4	
Toluene-d8 (S)	100	%.	81-114	1		02/21/12 17:54	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5058530

Sample: MMW-11S **Lab ID: 5058530006** Collected: 02/14/12 12:48 Received: 02/15/12 11:59 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		02/21/12 18:32	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/21/12 18:32	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/21/12 18:32	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/21/12 18:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/21/12 18:32	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/21/12 18:32	75-35-4	
cis-1,2-Dichloroethene	**5.4**	ug/L	5.0	1		02/21/12 18:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/21/12 18:32	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/21/12 18:32	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		02/21/12 18:32	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/21/12 18:32	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/21/12 18:32	127-18-4	
Toluene	ND	ug/L	5.0	1		02/21/12 18:32	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/21/12 18:32	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/21/12 18:32	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		02/21/12 18:32	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/21/12 18:32	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	83-123	1		02/21/12 18:32	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	72-125	1		02/21/12 18:32	460-00-4	
Toluene-d8 (S)	103	%.	81-114	1		02/21/12 18:32	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5058530

Sample: MMW-11D **Lab ID: 5058530007** Collected: 02/14/12 13:10 Received: 02/15/12 11:59 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		02/21/12 20:26	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/21/12 20:26	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/21/12 20:26	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/21/12 20:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/21/12 20:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/21/12 20:26	75-35-4	
cis-1,2-Dichloroethene	**240**	ug/L	50.0	10		02/21/12 21:04	156-59-2	
trans-1,2-Dichloroethene	**19.0**	ug/L	5.0	1		02/21/12 20:26	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/21/12 20:26	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		02/21/12 20:26	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/21/12 20:26	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/21/12 20:26	127-18-4	
Toluene	ND	ug/L	5.0	1		02/21/12 20:26	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/21/12 20:26	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/21/12 20:26	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		02/21/12 20:26	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/21/12 20:26	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%.	83-123	1		02/21/12 20:26	1868-53-7	
4-Bromofluorobenzene (S)	96	%.	72-125	1		02/21/12 20:26	460-00-4	
Toluene-d8 (S)	95	%.	81-114	1		02/21/12 20:26	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5058530

Sample: MMW-8S **Lab ID: 5058530008** Collected: 02/14/12 13:34 Received: 02/15/12 11:59 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		02/21/12 21:41	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/21/12 21:41	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/21/12 21:41	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/21/12 21:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/21/12 21:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/21/12 21:41	75-35-4	
cis-1,2-Dichloroethene	**12.6**	ug/L	5.0	1		02/21/12 21:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/21/12 21:41	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/21/12 21:41	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		02/21/12 21:41	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/21/12 21:41	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/21/12 21:41	127-18-4	
Toluene	ND	ug/L	5.0	1		02/21/12 21:41	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/21/12 21:41	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/21/12 21:41	79-01-6	
Vinyl chloride	**148**	ug/L	2.0	1		02/21/12 21:41	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/21/12 21:41	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%.	83-123	1		02/21/12 21:41	1868-53-7	
4-Bromofluorobenzene (S)	94	%.	72-125	1		02/21/12 21:41	460-00-4	
Toluene-d8 (S)	96	%.	81-114	1		02/21/12 21:41	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.6**	mg/L	0.30	1		02/17/12 05:14	7440-44-0	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		02/16/12 08:37		
Nitrogen, Nitrite	ND	mg/L	0.10	1		02/16/12 08:37		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**213**	mg/L	50.0	1		02/20/12 13:51	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5058530

Sample: MMW-10S **Lab ID: 5058530009** Collected: 02/14/12 14:08 Received: 02/15/12 11:59 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		02/21/12 22:19	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/21/12 22:19	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/21/12 22:19	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/21/12 22:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/21/12 22:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/21/12 22:19	75-35-4	
cis-1,2-Dichloroethene	**357**	ug/L	50.0	10		02/22/12 22:40	156-59-2	
trans-1,2-Dichloroethene	**6.7**	ug/L	5.0	1		02/21/12 22:19	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/21/12 22:19	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		02/21/12 22:19	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/21/12 22:19	91-20-3	
Tetrachloroethene	**35.0**	ug/L	5.0	1		02/21/12 22:19	127-18-4	
Toluene	ND	ug/L	5.0	1		02/21/12 22:19	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/21/12 22:19	71-55-6	
Trichloroethene	**21.6**	ug/L	5.0	1		02/21/12 22:19	79-01-6	
Vinyl chloride	**265**	ug/L	2.0	1		02/21/12 22:19	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/21/12 22:19	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	83-123	1		02/21/12 22:19	1868-53-7	
4-Bromofluorobenzene (S)	95	%.	72-125	1		02/21/12 22:19	460-00-4	
Toluene-d8 (S)	98	%.	81-114	1		02/21/12 22:19	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**4.3**	mg/L	0.30	1		02/17/12 05:36	7440-44-0	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		02/16/12 08:43		
Nitrogen, Nitrite	ND	mg/L	0.10	1		02/16/12 08:43		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**285**	mg/L	125	1		02/20/12 13:51	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5058530

Sample: MMW-1S **Lab ID: 5058530010** Collected: 02/14/12 14:42 Received: 02/15/12 11:59 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		02/21/12 22:56	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/21/12 22:56	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/21/12 22:56	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/21/12 22:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/21/12 22:56	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/21/12 22:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/21/12 22:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/21/12 22:56	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/21/12 22:56	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		02/21/12 22:56	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/21/12 22:56	91-20-3	
Tetrachloroethene	**219**	ug/L	5.0	1		02/21/12 22:56	127-18-4	
Toluene	ND	ug/L	5.0	1		02/21/12 22:56	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/21/12 22:56	71-55-6	
Trichloroethene	**9.7**	ug/L	5.0	1		02/21/12 22:56	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		02/21/12 22:56	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/21/12 22:56	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%.	83-123	1		02/21/12 22:56	1868-53-7	
4-Bromofluorobenzene (S)	99	%.	72-125	1		02/21/12 22:56	460-00-4	
Toluene-d8 (S)	98	%.	81-114	1		02/21/12 22:56	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2.6**	mg/L	0.30	1		02/17/12 06:04	7440-44-0	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**45.0**	mg/L	0.80	8		02/16/12 09:12		
Nitrogen, Nitrite	ND	mg/L	0.80	8		02/16/12 09:12		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**40.8**	mg/L	12.5	1		02/20/12 13:51	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5058530

Sample: Trip Blank **Lab ID: 5058530011** Collected: 02/14/12 08:00 Received: 02/15/12 11:59 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		02/21/12 23:34	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/21/12 23:34	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/21/12 23:34	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/21/12 23:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/21/12 23:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/21/12 23:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/21/12 23:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/21/12 23:34	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/21/12 23:34	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		02/21/12 23:34	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/21/12 23:34	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/21/12 23:34	127-18-4	
Toluene	ND	ug/L	5.0	1		02/21/12 23:34	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/21/12 23:34	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/21/12 23:34	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		02/21/12 23:34	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/21/12 23:34	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	95	%.	83-123	1		02/21/12 23:34	1868-53-7	
4-Bromofluorobenzene (S)	96	%.	72-125	1		02/21/12 23:34	460-00-4	
Toluene-d8 (S)	100	%.	81-114	1		02/21/12 23:34	2037-26-5	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5058530

QC Batch: MSV/39690 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 5058530002, 5058530003

METHOD BLANK: 689960 | Matrix: Water
Associated Lab Samples: 5058530002, 5058530003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	02/18/12 02:52	
1,1-Dichloroethane	ug/L	ND	5.0	02/18/12 02:52	
1,1-Dichloroethene	ug/L	ND	5.0	02/18/12 02:52	
1,2-Dichloroethane	ug/L	ND	5.0	02/18/12 02:52	
Benzene	ug/L	ND	5.0	02/18/12 02:52	
Carbon tetrachloride	ug/L	ND	5.0	02/18/12 02:52	
Chloroform	ug/L	ND	5.0	02/18/12 02:52	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/18/12 02:52	
Ethylbenzene	ug/L	ND	5.0	02/18/12 02:52	
Methylene Chloride	ug/L	ND	5.0	02/18/12 02:52	
Naphthalene	ug/L	ND	5.0	02/18/12 02:52	
Tetrachloroethene	ug/L	ND	5.0	02/18/12 02:52	
Toluene	ug/L	ND	5.0	02/18/12 02:52	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/18/12 02:52	
Trichloroethene	ug/L	ND	5.0	02/18/12 02:52	
Vinyl chloride	ug/L	ND	2.0	02/18/12 02:52	
Xylene (Total)	ug/L	ND	10.0	02/18/12 02:52	
4-Bromofluorobenzene (S)	%.	105	72-125	02/18/12 02:52	
Dibromofluoromethane (S)	%.	99	83-123	02/18/12 02:52	
Toluene-d8 (S)	%.	102	81-114	02/18/12 02:52	

LABORATORY CONTROL SAMPLE: 689961

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	46.5	93	69-126	
1,1-Dichloroethane	ug/L	50	55.4	111	70-127	
1,1-Dichloroethene	ug/L	50	52.7	105	75-145	
1,2-Dichloroethane	ug/L	50	48.0	96	71-127	
Benzene	ug/L	50	44.8	90	76-123	
Carbon tetrachloride	ug/L	50	35.7	71	65-125	
Chloroform	ug/L	50	49.6	99	73-122	
cis-1,2-Dichloroethene	ug/L	50	48.3	97	79-129	
Ethylbenzene	ug/L	50	50.1	100	75-120	
Methylene Chloride	ug/L	50	48.0	96	61-138	
Naphthalene	ug/L	50	43.2	86	62-130	
Tetrachloroethene	ug/L	50	45.6	91	57-125	
Toluene	ug/L	50	47.6	95	72-124	
trans-1,2-Dichloroethene	ug/L	50	52.6	105	71-145	
Trichloroethene	ug/L	50	52.1	104	77-122	
Vinyl chloride	ug/L	50	62.3	125	61-146	
Xylene (Total)	ug/L	150	150	100	72-126	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5058530

LABORATORY CONTROL SAMPLE: 689961

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%.			96	72-125	
Dibromofluoromethane (S)	%.			102	83-123	
Toluene-d8 (S)	%.			98	81-114	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 689962 689963

Parameter	Units	5058520005 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	48.7	49.4	97	99	37-136	1	20	
1,1-Dichloroethane	ug/L	ND	50	50	63.5	63.4	127	127	47-138	.3	20	
1,1-Dichloroethene	ug/L	ND	50	50	56.4	56.5	113	113	54-152	.1	20	
1,2-Dichloroethane	ug/L	ND	50	50	55.8	57.5	112	115	42-139	3	20	
Benzene	ug/L	ND	50	50	55.6	53.6	111	107	52-134	4	20	
Carbon tetrachloride	ug/L	ND	50	50	40.0	37.7	80	75	26-136	6	20	
Chloroform	ug/L	ND	50	50	54.5	54.5	109	109	50-134	.02	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	54.5	51.4	109	103	48-145	6	20	
Ethylbenzene	ug/L	ND	50	50	57.5	59.6	115	119	29-132	3	20	
Methylene Chloride	ug/L	ND	50	50	57.9	52.3	116	105	47-141	10	20	
Naphthalene	ug/L	ND	50	50	50.2	47.2	100	94	40-124	6	20	
Tetrachloroethene	ug/L	ND	50	50	55.2	51.6	110	103	30-124	7	20	
Toluene	ug/L	ND	50	50	55.2	51.8	110	104	42-130	6	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	53.7	56.5	107	113	48-144	5	20	
Trichloroethene	ug/L	ND	50	50	52.1	51.3	104	103	44-130	1	20	
Vinyl chloride	ug/L	ND	50	50	69.7	69.9	139	140	45-159	.2	20	
Xylene (Total)	ug/L	ND	150	150	179	165	119	110	29-131	8	20	
4-Bromofluorobenzene (S)	%.						99	101	72-125		20	
Dibromofluoromethane (S)	%.						92	101	83-123		20	
Toluene-d8 (S)	%.						102	106	81-114		20	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5058530

QC Batch: MSV/39732 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5058530001, 5058530004, 5058530005, 5058530006, 5058530007, 5058530008, 5058530009, 5058530010, 5058530011

METHOD BLANK: 691271 Matrix: Water
Associated Lab Samples: 5058530001, 5058530004, 5058530005, 5058530006, 5058530007, 5058530008, 5058530009, 5058530010, 5058530011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	02/21/12 14:08	
1,1-Dichloroethane	ug/L	ND	5.0	02/21/12 14:08	
1,1-Dichloroethene	ug/L	ND	5.0	02/21/12 14:08	
1,2-Dichloroethane	ug/L	ND	5.0	02/21/12 14:08	
Benzene	ug/L	ND	5.0	02/21/12 14:08	
Carbon tetrachloride	ug/L	ND	5.0	02/21/12 14:08	
Chloroform	ug/L	ND	5.0	02/21/12 14:08	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/21/12 14:08	
Ethylbenzene	ug/L	ND	5.0	02/21/12 14:08	
Methylene Chloride	ug/L	ND	5.0	02/21/12 14:08	
Naphthalene	ug/L	ND	5.0	02/21/12 14:08	
Tetrachloroethene	ug/L	ND	5.0	02/21/12 14:08	
Toluene	ug/L	ND	5.0	02/21/12 14:08	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/21/12 14:08	
Trichloroethene	ug/L	ND	5.0	02/21/12 14:08	
Vinyl chloride	ug/L	ND	2.0	02/21/12 14:08	
Xylene (Total)	ug/L	ND	10.0	02/21/12 14:08	
4-Bromofluorobenzene (S)	%.	98	72-125	02/21/12 14:08	
Dibromofluoromethane (S)	%.	101	83-123	02/21/12 14:08	
Toluene-d8 (S)	%.	99	81-114	02/21/12 14:08	

LABORATORY CONTROL SAMPLE: 691272

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	49.2	98	69-126	
1,1-Dichloroethane	ug/L	50	52.5	105	70-127	
1,1-Dichloroethene	ug/L	50	51.1	102	75-145	
1,2-Dichloroethane	ug/L	50	50.5	101	71-127	
Benzene	ug/L	50	52.6	105	76-123	
Carbon tetrachloride	ug/L	50	47.2	94	65-125	
Chloroform	ug/L	50	48.3	97	73-122	
cis-1,2-Dichloroethene	ug/L	50	49.7	99	79-129	
Ethylbenzene	ug/L	50	52.0	104	75-120	
Methylene Chloride	ug/L	50	60.6	121	61-138	
Naphthalene	ug/L	50	48.7	97	62-130	
Tetrachloroethene	ug/L	50	48.1	96	57-125	
Toluene	ug/L	50	46.1	92	72-124	
trans-1,2-Dichloroethene	ug/L	50	51.8	104	71-145	
Trichloroethene	ug/L	50	51.7	103	77-122	
Vinyl chloride	ug/L	50	53.9	108	61-146	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5058530

LABORATORY CONTROL SAMPLE: 691272

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	151	101	72-126	
4-Bromofluorobenzene (S)	%.			98	72-125	
Dibromofluoromethane (S)	%.			101	83-123	
Toluene-d8 (S)	%.			97	81-114	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 691273 691274

Parameter	Units	5058530004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	50	50	42.0	40.3	84	81	37-136	4	20	
1,1-Dichloroethane	ug/L	ND	50	50	44.9	47.4	90	95	47-138	5	20	
1,1-Dichloroethene	ug/L	ND	50	50	43.5	46.0	87	92	54-152	6	20	
1,2-Dichloroethane	ug/L	ND	50	50	43.0	44.8	86	90	42-139	4	20	
Benzene	ug/L	ND	50	50	43.9	43.8	88	88	52-134	.2	20	
Carbon tetrachloride	ug/L	ND	50	50	40.2	38.9	80	78	26-136	3	20	
Chloroform	ug/L	ND	50	50	43.1	42.7	86	85	50-134	.9	20	
cis-1,2-Dichloroethene	ug/L	24.0	50	50	64.7	65.2	81	82	48-145	.7	20	
Ethylbenzene	ug/L	ND	50	50	43.2	43.2	86	86	29-132	.1	20	
Methylene Chloride	ug/L	ND	50	50	57.6	60.9	115	122	47-141	6	20	
Naphthalene	ug/L	ND	50	50	39.5	41.0	79	82	40-124	4	20	
Tetrachloroethene	ug/L	ND	50	50	38.5	38.0	77	76	30-124	1	20	
Toluene	ug/L	ND	50	50	40.3	39.7	81	79	42-130	1	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	43.5	45.8	87	92	48-144	5	20	
Trichloroethene	ug/L	ND	50	50	43.9	44.1	88	88	44-130	.4	20	
Vinyl chloride	ug/L	ND	50	50	46.5	46.7	93	93	45-159	.6	20	
Xylene (Total)	ug/L	ND	150	150	130	130	87	86	29-131	.5	20	
4-Bromofluorobenzene (S)	%.						98	97	72-125		20	
Dibromofluoromethane (S)	%.						100	98	83-123		20	
Toluene-d8 (S)	%.						95	94	81-114		20	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5058530

QC Batch: OHIO/1628 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C TOC
Associated Lab Samples: 5058530008, 5058530009, 5058530010

METHOD BLANK: 689055 Matrix: Water
Associated Lab Samples: 5058530008, 5058530009, 5058530010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	0.30	02/16/12 19:04	N2

LABORATORY CONTROL SAMPLE: 689056

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	4.9	98	80-120	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 689058 689059

Parameter	Units	5058497011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	4.4	4	4	8.6	8.7	107	108	75-125	.9	20	N2

SAMPLE DUPLICATE: 689057

Parameter	Units	5058497011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	4.4	4.4	.5	20	N2

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5058530

QC Batch: WETA/7519 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 5058530008, 5058530009, 5058530010

METHOD BLANK: 688501 | Matrix: Water
Associated Lab Samples: 5058530008, 5058530009, 5058530010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	02/16/12 08:28	
Nitrogen, Nitrite	mg/L	ND	0.10	02/16/12 08:28	

LABORATORY CONTROL SAMPLE: 688502

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2	2.1	103	90-110	
Nitrogen, Nitrite	mg/L	2	1.9	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 688503 688504

Parameter	Units	5058554001 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	92	92	90-110	.06	20	
Nitrogen, Nitrite	mg/L	ND	2	2	1.8	1.8	88	88	90-110	.3	20	M3

MATRIX SPIKE SAMPLE: 688505

Parameter	Units	5058554008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	0.20	2	2.0	91	90-110	
Nitrogen, Nitrite	mg/L	ND	2	1.7	86	90-110	M0

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5058530

QC Batch: WETA/7548 | Analysis Method: ASTM D516-90,02
QC Batch Method: ASTM D516-90,02 | Analysis Description: ASTM D516-9002 Sulfate Water
Associated Lab Samples: 5058530008, 5058530009, 5058530010

METHOD BLANK: 690551 | Matrix: Water
Associated Lab Samples: 5058530008, 5058530009, 5058530010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	5.0	02/20/12 13:51	N2

LABORATORY CONTROL SAMPLE: 690552

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	21.1	106	90-110	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 690553 690554

Parameter	Units	5058699010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	98.8	200	200	364	341	133	121	90-110	7	20	M3,N2

MATRIX SPIKE SAMPLE: 690555

Parameter	Units	5058637006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	73.5	100	248	174	90-110	E,M0,N2

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QUALIFIERS

Project: MI Plaza M01046
Pace Project No.: 5058530

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MI Plaza M01046
Pace Project No.: 5058530

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5058530001	**MMW-6D**	EPA 8260	MSV/39732		
5058530002	**MMW-4D**	EPA 8260	MSV/39690		
5058530003	**MMW-14D**	EPA 8260	MSV/39690		
5058530004	**MMW-12S**	EPA 8260	MSV/39732		
5058530005	**MMW-13D**	EPA 8260	MSV/39732		
5058530006	**MMW-11S**	EPA 8260	MSV/39732		
5058530007	**MMW-11D**	EPA 8260	MSV/39732		
5058530008	**MMW-8S**	EPA 8260	MSV/39732		
5058530009	**MMW-10S**	EPA 8260	MSV/39732		
5058530010	**MMW-1S**	EPA 8260	MSV/39732		
5058530011	**Trip Blank**	EPA 8260	MSV/39732		
5058530008	**MMW-8S**	SM 5310C	OHIO/1628		
5058530009	**MMW-10S**	SM 5310C	OHIO/1628		
5058530010	**MMW-1S**	SM 5310C	OHIO/1628		
5058530008	**MMW-8S**	EPA 353.2	WETA/7519		
5058530009	**MMW-10S**	EPA 353.2	WETA/7519		
5058530010	**MMW-1S**	EPA 353.2	WETA/7519		
5058530008	**MMW-8S**	ASTM D516-90,02	WETA/7548		
5058530009	**MMW-10S**	ASTM D516-90,02	WETA/7548		
5058530010	**MMW-1S**	ASTM D516-90,02	WETA/7548		

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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

1462055

Section A Required Client Information:

Company: Mundell & Associates
Address: 110 S. Downey Ave Indpls, IN 46219
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: M61046

Section C Invoice Information:

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

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE:

Section D Required Client Information

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	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. VOCs 8260	nitrate/nitrite 353.2	sulfate 375.4	TOC 415.1	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 5058530
1	MMW-6D	WT	G			2/14/12	10:12A		3				3					X					001
2	MMW-4D						10.50A		3				3										002
3	MMW-14D						11:23A		3				3										003
4	MMW-12S						11:46A		3				3										004
5	MMW-13D						12:12P		3				3										005
6	MMW-11S						12:48P		3				3										006
7	MMW-11D						1:10P		3				3										007
8	MMW-8S						1:34P		5	1	1		3						X	X	X		008
9	MMW-10S						2:08P		5	1	1		3						X	X	X		009
10	MMW-1S						2:42P		5	1	1		3						X	X	X		010
11	Trip Blank												3										011
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	[signature]	2/15/12	10:30	[signature]	2/15/12	10:30

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

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Andy Dammeyer
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 2/14/12

WF/Pace Kee 2-15-12 1147

*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 # 5058530

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

Tracking #: _____

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

Date/Time 5035A kits placed in freezer _____

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

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

Cooler Temperature (Corrected, if applicable) 0.7°C Ice Visible in Sample Containers: ☐ yes ☒ no

Temp should be above freezing to 6°C

Date and Initials of person examining contents: KLL 2-15-12

		Comments:
Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Short Hold Time Analysis (<72hr):	☒Yes ☐No ☐N/A	5. Nitrates
Rush Turn Around Time Requested:	☐Yes ☒No ☐N/A	6.
Containers Intact:	☒Yes ☐No ☐N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	☐Yes ☒No ☐N/A	8. Not all containers have times.
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 ea. for MW-8S, MW-10S + T.B.
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 Sayers **Date:** 2/15/12

Sample Container Count

Pace Analytical
www.pacelabs.com

CLIENT: Mundell

COC PAGE 1 of 1
COC ID# 1462055

Project # 5058530

Sample Line Item	DG9H	AG1U	WGFU	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H				Comments
1	3															
2	2															
3	3															
4																
5																
6																
7																
8									1		1					
9									1		1					
10									1		1					
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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March 01, 2012

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

RE: Project: MI Plaza M01046
Pace Project No.: 5058637

Dear Ms. Webb:
Enclosed are the analytical results for sample(s) received by the laboratory on February 16, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Tina Sayer

Tina Sayer

tina.sayer@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: MI Plaza M01046
Pace Project No.: 5058637

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

Ohio Certification IDs
1233 Dublin Road, Columbus, OH 43215
Indiana Drinking Water Certification #: C-OH-11
Kentucky Drinking Water Certification #: 90132
NVLAP Certification #: 90132
Ohio Drinking Water Certification #: 1030
Ohio Microbiology Certification #: 943
Ohio VAP Certification #: CL0054

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SAMPLE SUMMARY

Project: MI Plaza M01046
Pace Project No.: 5058637

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5058637001	**MMW-P-09S**	Water	02/15/12 09:09	02/16/12 13:25
5058637002	**MMW-P-09D**	Water	02/15/12 09:36	02/16/12 13:25
5058637003	**Dup 1**	Water	02/15/12 08:00	02/16/12 13:25
5058637004	**MMW-C-02S**	Water	02/15/12 10:04	02/16/12 13:25
5058637005	**MMW-C-02D**	Water	02/15/12 10:47	02/16/12 13:25
5058637006	**MMW-C-01**	Water	02/15/12 11:19	02/16/12 13:25
5058637007	**MMW-P-11S**	Water	02/15/12 12:19	02/16/12 13:25
5058637008	**MMW-P-11DR**	Water	02/15/12 12:58	02/16/12 13:25
5058637009	**MMW-P-12S**	Water	02/15/12 13:33	02/16/12 13:25
5058637010	**MMW-P-12D**	Water	02/15/12 14:05	02/16/12 13:25
5058637011	**MMW-15S**	Water	02/15/12 14:51	02/16/12 13:25
5058637012	**MMW-15D**	Water	02/15/12 14:17	02/16/12 13:25
5058637013	**Trip Blank**	Water	02/15/12 08:00	02/16/12 13:25

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SAMPLE ANALYTE COUNT

Project: MI Plaza M01046
Pace Project No.: 5058637

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5058637001	**MMW-P-09S**	EPA 8260	SLB	20
5058637002	**MMW-P-09D**	EPA 8260	SLB	20
5058637003	**Dup 1**	EPA 8260	SLB	20
5058637004	**MMW-C-02S**	EPA 8260	SLB	20
5058637005	**MMW-C-02D**	EPA 8260	SLB	20
5058637006	**MMW-C-01**	EPA 8260	SLB	20
		SM 5310C	GR1	1
		EPA 353.2	ILP	2
		ASTM D516-90,02	TPD	1
5058637007	**MMW-P-11S**	EPA 8260	SLB	20
		SM 5310C	GR1	1
		EPA 353.2	ILP	2
		ASTM D516-90,02	TPD	1
5058637008	**MMW-P-11DR**	EPA 8260	SLB	20
		SM 5310C	GR1	1
		EPA 353.2	ILP	2
		ASTM D516-90,02	TPD	1
5058637009	**MMW-P-12S**	EPA 8260	SLB	20
		SM 5310C	GR1	1
		EPA 353.2	ILP	2
		ASTM D516-90,02	TPD	1
5058637010	**MMW-P-12D**	EPA 8260	SLB	20
		SM 5310C	GR1	1
		EPA 353.2	ILP	2
		ASTM D516-90,02	TPD	1
5058637011	**MMW-15S**	EPA 8260	SLB	20
5058637012	**MMW-15D**	EPA 8260	SLB	20
5058637013	**Trip Blank**	EPA 8260	SLB	20

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5058637

Sample: MMW-P-09S **Lab ID: 5058637001** Collected: 02/15/12 09:09 Received: 02/16/12 13:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		02/22/12 09:39	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/22/12 09:39	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/22/12 09:39	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/22/12 09:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/22/12 09:39	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/22/12 09:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/12 09:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/12 09:39	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/22/12 09:39	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		02/22/12 09:39	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/22/12 09:39	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/22/12 09:39	127-18-4	
Toluene	ND	ug/L	5.0	1		02/22/12 09:39	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/22/12 09:39	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/22/12 09:39	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		02/22/12 09:39	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/22/12 09:39	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%.	83-123	1		02/22/12 09:39	1868-53-7	
4-Bromofluorobenzene (S)	100	%.	72-125	1		02/22/12 09:39	460-00-4	
Toluene-d8 (S)	98	%.	81-114	1		02/22/12 09:39	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5058637

Sample: MMW-P-09D **Lab ID: 5058637002** Collected: 02/15/12 09:36 Received: 02/16/12 13:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		02/22/12 10:17	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/22/12 10:17	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/22/12 10:17	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/22/12 10:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/22/12 10:17	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/22/12 10:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/12 10:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/12 10:17	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/22/12 10:17	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		02/22/12 10:17	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/22/12 10:17	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/22/12 10:17	127-18-4	
Toluene	ND	ug/L	5.0	1		02/22/12 10:17	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/22/12 10:17	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/22/12 10:17	79-01-6	
Vinyl chloride	**70.7**	ug/L	2.0	1		02/22/12 10:17	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/22/12 10:17	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%.	83-123	1		02/22/12 10:17	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	72-125	1		02/22/12 10:17	460-00-4	
Toluene-d8 (S)	98	%.	81-114	1		02/22/12 10:17	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5058637

Sample: Dup 1 **Lab ID: 5058637003** Collected: 02/15/12 08:00 Received: 02/16/12 13:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		02/22/12 10:55	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/22/12 10:55	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/22/12 10:55	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/22/12 10:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/22/12 10:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/22/12 10:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/12 10:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/12 10:55	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/22/12 10:55	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		02/22/12 10:55	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/22/12 10:55	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/22/12 10:55	127-18-4	
Toluene	ND	ug/L	5.0	1		02/22/12 10:55	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/22/12 10:55	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/22/12 10:55	79-01-6	
Vinyl chloride	**59.4**	ug/L	2.0	1		02/22/12 10:55	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/22/12 10:55	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%.	83-123	1		02/22/12 10:55	1868-53-7	
4-Bromofluorobenzene (S)	99	%.	72-125	1		02/22/12 10:55	460-00-4	
Toluene-d8 (S)	98	%.	81-114	1		02/22/12 10:55	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5058637

Sample: MMW-C-02S **Lab ID: 5058637004** Collected: 02/15/12 10:04 Received: 02/16/12 13:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		02/22/12 13:24	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/22/12 13:24	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/22/12 13:24	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/22/12 13:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/22/12 13:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/22/12 13:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/12 13:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/12 13:24	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/22/12 13:24	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		02/22/12 13:24	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/22/12 13:24	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/22/12 13:24	127-18-4	
Toluene	ND	ug/L	5.0	1		02/22/12 13:24	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/22/12 13:24	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/22/12 13:24	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		02/22/12 13:24	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/22/12 13:24	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%.	83-123	1		02/22/12 13:24	1868-53-7	
4-Bromofluorobenzene (S)	94	%.	72-125	1		02/22/12 13:24	460-00-4	
Toluene-d8 (S)	98	%.	81-114	1		02/22/12 13:24	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5058637

Sample: MMW-C-02D **Lab ID: 5058637005** Collected: 02/15/12 10:47 Received: 02/16/12 13:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		02/22/12 14:01	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/22/12 14:01	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/22/12 14:01	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/22/12 14:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/22/12 14:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/22/12 14:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/12 14:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/12 14:01	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/22/12 14:01	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		02/22/12 14:01	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/22/12 14:01	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/22/12 14:01	127-18-4	
Toluene	ND	ug/L	5.0	1		02/22/12 14:01	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/22/12 14:01	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/22/12 14:01	79-01-6	
Vinyl chloride	**30.7**	ug/L	2.0	1		02/22/12 14:01	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/22/12 14:01	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102	%.	83-123	1		02/22/12 14:01	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	72-125	1		02/22/12 14:01	460-00-4	
Toluene-d8 (S)	99	%.	81-114	1		02/22/12 14:01	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5058637

Sample: MMW-C-01 **Lab ID: 5058637006** Collected: 02/15/12 11:19 Received: 02/16/12 13:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		02/22/12 14:38	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/22/12 14:38	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/22/12 14:38	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/22/12 14:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/22/12 14:38	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/22/12 14:38	75-35-4	
cis-1,2-Dichloroethene	**6.0**	ug/L	5.0	1		02/22/12 14:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/12 14:38	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/22/12 14:38	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		02/22/12 14:38	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/22/12 14:38	91-20-3	
Tetrachloroethene	**23.8**	ug/L	5.0	1		02/22/12 14:38	127-18-4	
Toluene	ND	ug/L	5.0	1		02/22/12 14:38	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/22/12 14:38	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/22/12 14:38	79-01-6	
Vinyl chloride	**21.1**	ug/L	2.0	1		02/22/12 14:38	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/22/12 14:38	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	107	%.	83-123	1		02/22/12 14:38	1868-53-7	
4-Bromofluorobenzene (S)	94	%.	72-125	1		02/22/12 14:38	460-00-4	
Toluene-d8 (S)	98	%.	81-114	1		02/22/12 14:38	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.9**	mg/L	0.30	1		02/28/12 23:39	7440-44-0	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**7.7**	mg/L	0.10	1		02/17/12 07:52		
Nitrogen, Nitrite	ND	mg/L	0.10	1		02/17/12 07:52		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**73.5**	mg/L	25.0	1		02/20/12 13:51	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5058637

Sample: MMW-P-11S **Lab ID: 5058637007** Collected: 02/15/12 12:19 Received: 02/16/12 13:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		02/22/12 15:52	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/22/12 15:52	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/22/12 15:52	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/22/12 15:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/22/12 15:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/22/12 15:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/12 15:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/12 15:52	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/22/12 15:52	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		02/22/12 15:52	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/22/12 15:52	91-20-3	
Tetrachloroethene	**658**	ug/L	50.0	10		02/23/12 22:20	127-18-4	
Toluene	ND	ug/L	5.0	1		02/22/12 15:52	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/22/12 15:52	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/22/12 15:52	79-01-6	
Vinyl chloride	**2.3**	ug/L	2.0	1		02/22/12 15:52	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/22/12 15:52	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	83-123	1		02/22/12 15:52	1868-53-7	
4-Bromofluorobenzene (S)	95	%.	72-125	1		02/22/12 15:52	460-00-4	
Toluene-d8 (S)	97	%.	81-114	1		02/22/12 15:52	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.9**	mg/L	0.30	1		02/29/12 00:08	7440-44-0	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	**0.60**	mg/L	0.10	1		02/17/12 07:54		
Nitrogen, Nitrite	ND	mg/L	0.10	1		02/17/12 07:54		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**132**	mg/L	50.0	1		02/20/12 13:51	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5058637

Sample: MMW-P-11DR **Lab ID: 5058637008** Collected: 02/15/12 12:58 Received: 02/16/12 13:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		02/22/12 17:43	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/22/12 17:43	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/22/12 17:43	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/22/12 17:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/22/12 17:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/22/12 17:43	75-35-4	
cis-1,2-Dichloroethene	**8.4**	ug/L	5.0	1		02/22/12 17:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/12 17:43	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/22/12 17:43	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		02/22/12 17:43	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/22/12 17:43	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/22/12 17:43	127-18-4	
Toluene	ND	ug/L	5.0	1		02/22/12 17:43	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/22/12 17:43	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/22/12 17:43	79-01-6	
Vinyl chloride	**95.1**	ug/L	2.0	1		02/22/12 17:43	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/22/12 17:43	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101	%.	83-123	1		02/22/12 17:43	1868-53-7	
4-Bromofluorobenzene (S)	96	%.	72-125	1		02/22/12 17:43	460-00-4	
Toluene-d8 (S)	101	%.	81-114	1		02/22/12 17:43	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2.0**	mg/L	0.30	1		02/29/12 00:37	7440-44-0	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		02/17/12 08:00		
Nitrogen, Nitrite	ND	mg/L	0.10	1		02/17/12 08:00		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**275**	mg/L	50.0	1		02/20/12 13:51	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5058637

Sample: MMW-P-12S **Lab ID: 5058637009** Collected: 02/15/12 13:33 Received: 02/16/12 13:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		02/22/12 18:20	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/22/12 18:20	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/22/12 18:20	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/22/12 18:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/22/12 18:20	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/22/12 18:20	75-35-4	
cis-1,2-Dichloroethene	**777**	ug/L	50.0	10		02/23/12 22:58	156-59-2	
trans-1,2-Dichloroethene	**14.5**	ug/L	5.0	1		02/22/12 18:20	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/22/12 18:20	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		02/22/12 18:20	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/22/12 18:20	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/22/12 18:20	127-18-4	
Toluene	ND	ug/L	5.0	1		02/22/12 18:20	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/22/12 18:20	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/22/12 18:20	79-01-6	
Vinyl chloride	**61.4**	ug/L	2.0	1		02/22/12 18:20	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/22/12 18:20	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%.	83-123	1		02/22/12 18:20	1868-53-7	
4-Bromofluorobenzene (S)	95	%.	72-125	1		02/22/12 18:20	460-00-4	
Toluene-d8 (S)	100	%.	81-114	1		02/22/12 18:20	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.7**	mg/L	0.30	1		02/29/12 01:06	7440-44-0	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		02/17/12 08:01		
Nitrogen, Nitrite	ND	mg/L	0.10	1		02/17/12 08:01		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**162**	mg/L	50.0	1		02/20/12 13:51	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5058637

Sample: MMW-P-12D **Lab ID: 5058637010** Collected: 02/15/12 14:05 Received: 02/16/12 13:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		02/22/12 18:58	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/22/12 18:58	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/22/12 18:58	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/22/12 18:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/22/12 18:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/22/12 18:58	75-35-4	
cis-1,2-Dichloroethene	**727**	ug/L	50.0	10		02/23/12 23:36	156-59-2	
trans-1,2-Dichloroethene	**15.0**	ug/L	5.0	1		02/22/12 18:58	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/22/12 18:58	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		02/22/12 18:58	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/22/12 18:58	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/22/12 18:58	127-18-4	
Toluene	ND	ug/L	5.0	1		02/22/12 18:58	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/22/12 18:58	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/22/12 18:58	79-01-6	
Vinyl chloride	**65.1**	ug/L	2.0	1		02/22/12 18:58	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/22/12 18:58	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105	%.	83-123	1		02/22/12 18:58	1868-53-7	
4-Bromofluorobenzene (S)	96	%.	72-125	1		02/22/12 18:58	460-00-4	
Toluene-d8 (S)	101	%.	81-114	1		02/22/12 18:58	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.9**	mg/L	0.30	1		02/29/12 01:28	7440-44-0	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		02/17/12 08:02		
Nitrogen, Nitrite	ND	mg/L	0.10	1		02/17/12 08:02		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	**164**	mg/L	50.0	1		02/20/12 13:51	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5058637

Sample: MMW-15S **Lab ID: 5058637011** Collected: 02/15/12 14:51 Received: 02/16/12 13:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		02/22/12 23:17	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/22/12 23:17	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/22/12 23:17	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/22/12 23:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/22/12 23:17	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/22/12 23:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/12 23:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/12 23:17	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/22/12 23:17	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		02/22/12 23:17	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/22/12 23:17	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/22/12 23:17	127-18-4	
Toluene	ND	ug/L	5.0	1		02/22/12 23:17	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/22/12 23:17	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/22/12 23:17	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		02/22/12 23:17	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/22/12 23:17	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%.	83-123	1		02/22/12 23:17	1868-53-7	
4-Bromofluorobenzene (S)	93	%.	72-125	1		02/22/12 23:17	460-00-4	
Toluene-d8 (S)	99	%.	81-114	1		02/22/12 23:17	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5058637

Sample: MMW-15D **Lab ID: 5058637012** Collected: 02/15/12 14:17 Received: 02/16/12 13:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		02/22/12 23:54	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/22/12 23:54	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/22/12 23:54	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/22/12 23:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/22/12 23:54	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/22/12 23:54	75-35-4	
cis-1,2-Dichloroethene	**7.3**	ug/L	5.0	1		02/22/12 23:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/12 23:54	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/22/12 23:54	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		02/22/12 23:54	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/22/12 23:54	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/22/12 23:54	127-18-4	
Toluene	ND	ug/L	5.0	1		02/22/12 23:54	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/22/12 23:54	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/22/12 23:54	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		02/22/12 23:54	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/22/12 23:54	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100	%.	83-123	1		02/22/12 23:54	1868-53-7	
4-Bromofluorobenzene (S)	97	%.	72-125	1		02/22/12 23:54	460-00-4	
Toluene-d8 (S)	99	%.	81-114	1		02/22/12 23:54	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5058637

Sample: Trip Blank **Lab ID: 5058637013** Collected: 02/15/12 08:00 Received: 02/16/12 13:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Benzene	ND	ug/L	5.0	1		02/23/12 00:31	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/23/12 00:31	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/23/12 00:31	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/23/12 00:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/23/12 00:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/23/12 00:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/23/12 00:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/23/12 00:31	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/23/12 00:31	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		02/23/12 00:31	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/23/12 00:31	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/23/12 00:31	127-18-4	
Toluene	ND	ug/L	5.0	1		02/23/12 00:31	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/23/12 00:31	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/23/12 00:31	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		02/23/12 00:31	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/23/12 00:31	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%.	83-123	1		02/23/12 00:31	1868-53-7	
4-Bromofluorobenzene (S)	94	%.	72-125	1		02/23/12 00:31	460-00-4	
Toluene-d8 (S)	97	%.	81-114	1		02/23/12 00:31	2037-26-5	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5058637

QC Batch: MSV/39751 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5058637001, 5058637002, 5058637003, 5058637004, 5058637005, 5058637006, 5058637007, 5058637008, 5058637009, 5058637010

METHOD BLANK: 691476 Matrix: Water
Associated Lab Samples: 5058637001, 5058637002, 5058637003, 5058637004, 5058637005, 5058637006, 5058637007, 5058637008, 5058637009, 5058637010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	02/22/12 09:02	
1,1-Dichloroethane	ug/L	ND	5.0	02/22/12 09:02	
1,1-Dichloroethene	ug/L	ND	5.0	02/22/12 09:02	
1,2-Dichloroethane	ug/L	ND	5.0	02/22/12 09:02	
Benzene	ug/L	ND	5.0	02/22/12 09:02	
Carbon tetrachloride	ug/L	ND	5.0	02/22/12 09:02	
Chloroform	ug/L	ND	5.0	02/22/12 09:02	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/22/12 09:02	
Ethylbenzene	ug/L	ND	5.0	02/22/12 09:02	
Methylene Chloride	ug/L	ND	5.0	02/22/12 09:02	
Naphthalene	ug/L	ND	5.0	02/22/12 09:02	
Tetrachloroethene	ug/L	ND	5.0	02/22/12 09:02	
Toluene	ug/L	ND	5.0	02/22/12 09:02	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/22/12 09:02	
Trichloroethene	ug/L	ND	5.0	02/22/12 09:02	
Vinyl chloride	ug/L	ND	2.0	02/22/12 09:02	
Xylene (Total)	ug/L	ND	10.0	02/22/12 09:02	
4-Bromofluorobenzene (S)	%.	94	72-125	02/22/12 09:02	
Dibromofluoromethane (S)	%.	105	83-123	02/22/12 09:02	
Toluene-d8 (S)	%.	96	81-114	02/22/12 09:02	

LABORATORY CONTROL SAMPLE: 691477

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	38.5	77	69-126	
1,1-Dichloroethane	ug/L	50	42.4	85	70-127	
1,1-Dichloroethene	ug/L	50	42.9	86	75-145	
1,2-Dichloroethane	ug/L	50	40.7	81	71-127	
Benzene	ug/L	50	41.1	82	76-123	
Carbon tetrachloride	ug/L	50	37.4	75	65-125	
Chloroform	ug/L	50	39.8	80	73-122	
cis-1,2-Dichloroethene	ug/L	50	40.7	81	79-129	
Ethylbenzene	ug/L	50	42.7	85	75-120	
Methylene Chloride	ug/L	50	47.4	95	61-138	
Naphthalene	ug/L	50	38.1	76	62-130	
Tetrachloroethene	ug/L	50	39.9	80	57-125	
Toluene	ug/L	50	38.6	77	72-124	
trans-1,2-Dichloroethene	ug/L	50	41.3	83	71-145	
Trichloroethene	ug/L	50	40.9	82	77-122	
Vinyl chloride	ug/L	50	45.2	90	61-146	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5058637

LABORATORY CONTROL SAMPLE: 691477

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	128	85	72-126	
4-Bromofluorobenzene (S)	%.			99	72-125	
Dibromofluoromethane (S)	%.			99	83-123	
Toluene-d8 (S)	%.			98	81-114	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 691478 691479

Parameter	Units	5058637007 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	53.3	46.9	107	94	37-136	13	20	
1,1-Dichloroethane	ug/L	ND	50	50	60.5	50.6	121	101	47-138	18	20	
1,1-Dichloroethene	ug/L	ND	50	50	60.6	50.9	121	102	54-152	17	20	
1,2-Dichloroethane	ug/L	ND	50	50	55.2	48.1	110	96	42-139	14	20	
Benzene	ug/L	ND	50	50	56.0	48.4	112	97	52-134	15	20	
Carbon tetrachloride	ug/L	ND	50	50	52.1	43.8	104	88	26-136	17	20	
Chloroform	ug/L	ND	50	50	55.1	48.0	110	96	50-134	14	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	61.3	52.3	121	103	48-145	16	20	
Ethylbenzene	ug/L	ND	50	50	55.1	49.1	110	98	29-132	11	20	
Methylene Chloride	ug/L	ND	50	50	60.8	51.8	122	104	47-141	16	20	
Naphthalene	ug/L	ND	50	50	45.7	38.7	91	77	40-124	17	20	
Tetrachloroethene	ug/L	658	50	50	755	653	195	-9	30-124	14	20	M0
Toluene	ug/L	ND	50	50	51.2	44.0	102	88	42-130	15	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	57.4	48.9	115	98	48-144	16	20	
Trichloroethene	ug/L	ND	50	50	58.4	50.1	117	100	44-130	15	20	
Vinyl chloride	ug/L	2.3	50	50	67.7	61.6	131	119	45-159	9	20	
Xylene (Total)	ug/L	ND	150	150	165	145	110	97	29-131	13	20	
4-Bromofluorobenzene (S)	%.						95	98	72-125		20	
Dibromofluoromethane (S)	%.						100	102	83-123		20	
Toluene-d8 (S)	%.						99	99	81-114		20	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5058637

QC Batch: MSV/39771 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5058637011, 5058637012, 5058637013

METHOD BLANK: 691847 Matrix: Water
Associated Lab Samples: 5058637011, 5058637012, 5058637013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	02/22/12 21:26	
1,1-Dichloroethane	ug/L	ND	5.0	02/22/12 21:26	
1,1-Dichloroethene	ug/L	ND	5.0	02/22/12 21:26	
1,2-Dichloroethane	ug/L	ND	5.0	02/22/12 21:26	
Benzene	ug/L	ND	5.0	02/22/12 21:26	
Carbon tetrachloride	ug/L	ND	5.0	02/22/12 21:26	
Chloroform	ug/L	ND	5.0	02/22/12 21:26	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/22/12 21:26	
Ethylbenzene	ug/L	ND	5.0	02/22/12 21:26	
Methylene Chloride	ug/L	ND	5.0	02/22/12 21:26	
Naphthalene	ug/L	ND	5.0	02/22/12 21:26	
Tetrachloroethene	ug/L	ND	5.0	02/22/12 21:26	
Toluene	ug/L	ND	5.0	02/22/12 21:26	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/22/12 21:26	
Trichloroethene	ug/L	ND	5.0	02/22/12 21:26	
Vinyl chloride	ug/L	ND	2.0	02/22/12 21:26	
Xylene (Total)	ug/L	ND	10.0	02/22/12 21:26	
4-Bromofluorobenzene (S)	%.	91	72-125	02/22/12 21:26	
Dibromofluoromethane (S)	%.	102	83-123	02/22/12 21:26	
Toluene-d8 (S)	%.	99	81-114	02/22/12 21:26	

LABORATORY CONTROL SAMPLE: 691848

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.3	101	69-126	
1,1-Dichloroethane	ug/L	50	54.8	110	70-127	
1,1-Dichloroethene	ug/L	50	56.0	112	75-145	
1,2-Dichloroethane	ug/L	50	51.4	103	71-127	
Benzene	ug/L	50	52.4	105	76-123	
Carbon tetrachloride	ug/L	50	49.5	99	65-125	
Chloroform	ug/L	50	49.9	100	73-122	
cis-1,2-Dichloroethene	ug/L	50	51.2	102	79-129	
Ethylbenzene	ug/L	50	49.5	99	75-120	
Methylene Chloride	ug/L	50	63.5	127	61-138	
Naphthalene	ug/L	50	44.2	88	62-130	
Tetrachloroethene	ug/L	50	46.7	93	57-125	
Toluene	ug/L	50	46.2	92	72-124	
trans-1,2-Dichloroethene	ug/L	50	50.5	101	71-145	
Trichloroethene	ug/L	50	51.7	103	77-122	
Vinyl chloride	ug/L	50	57.5	115	61-146	
Xylene (Total)	ug/L	150	154	102	72-126	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5058637

LABORATORY CONTROL SAMPLE: 691848

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%.			95	72-125	
Dibromofluoromethane (S)	%.			103	83-123	
Toluene-d8 (S)	%.			98	81-114	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 691849 691850

Parameter	Units	5058764013 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	45.2	41.8	90	84	37-136	8	20	
1,1-Dichloroethane	ug/L	ND	50	50	49.5	47.0	99	94	47-138	5	20	
1,1-Dichloroethene	ug/L	ND	50	50	48.0	45.6	96	91	54-152	5	20	
1,2-Dichloroethane	ug/L	ND	50	50	50.4	46.2	101	92	42-139	9	20	
Benzene	ug/L	ND	50	50	46.5	43.4	93	87	52-134	7	20	
Carbon tetrachloride	ug/L	ND	50	50	44.1	41.3	88	83	26-136	6	20	
Chloroform	ug/L	ND	50	50	46.2	43.2	92	86	50-134	7	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	46.3	43.2	93	86	48-145	7	20	
Ethylbenzene	ug/L	ND	50	50	45.1	36.3	90	73	29-132	21	20	1d
Methylene Chloride	ug/L	ND	50	50	56.6	58.4	113	117	47-141	3	20	
Naphthalene	ug/L	ND	50	50	39.3	34.4	79	69	40-124	13	20	
Tetrachloroethene	ug/L	ND	50	50	41.7	35.9	83	72	30-124	15	20	
Toluene	ug/L	ND	50	50	40.1	34.9	80	70	42-130	14	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	45.3	42.4	91	85	48-144	7	20	
Trichloroethene	ug/L	ND	50	50	46.1	41.9	92	84	44-130	10	20	
Vinyl chloride	ug/L	ND	50	50	51.8	49.1	104	98	45-159	5	20	
Xylene (Total)	ug/L	ND	150	150	130	109	87	72	29-131	18	20	
4-Bromofluorobenzene (S)	%.						102	97	72-125		20	
Dibromofluoromethane (S)	%.						107	104	83-123		20	
Toluene-d8 (S)	%.						100	93	81-114		20	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5058637

QC Batch: OHIO/1755 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C TOC
Associated Lab Samples: 5058637006, 5058637007, 5058637008, 5058637009, 5058637010

METHOD BLANK: 694714 Matrix: Water
Associated Lab Samples: 5058637006, 5058637007, 5058637008, 5058637009, 5058637010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	0.30	02/28/12 18:58	N2

LABORATORY CONTROL SAMPLE: 694715

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	4.9	97	80-120	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 694717 694718

Parameter	Units	5058800001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	9.2	4	4	13.7	13.6	113	110	75-125	.9	20	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 694720 694721

Parameter	Units	5058862001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	45.5	4	4	53.4	49.9	196	110	75-125	7	20	M0,N2

SAMPLE DUPLICATE: 694716

Parameter	Units	5058800001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	9.2	9.1	.9	20	N2

SAMPLE DUPLICATE: 694719

Parameter	Units	5058862001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	45.5	46.7	3	20	N2

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5058637

QC Batch: WETA/7526 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 5058637006, 5058637007, 5058637008, 5058637009, 5058637010

METHOD BLANK: 689316 | Matrix: Water
Associated Lab Samples: 5058637006, 5058637007, 5058637008, 5058637009, 5058637010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	02/17/12 07:45	
Nitrogen, Nitrite	mg/L	ND	0.10	02/17/12 07:45	

LABORATORY CONTROL SAMPLE: 689317

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	2.0	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 689318 689319

Parameter	Units	5058627001 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	1.9	97	95	90-110	2	20	
Nitrogen, Nitrite	mg/L	ND	2	2	2.0	2.1	99	103	90-110	5	20	

MATRIX SPIKE SAMPLE: 689320

Parameter	Units	5058627008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	ND	2	1.9	95	90-110	
Nitrogen, Nitrite	mg/L	ND	2	1.9	95	90-110	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5058637

QC Batch: WETA/7548 Analysis Method: ASTM D516-90,02
QC Batch Method: ASTM D516-90,02 Analysis Description: ASTM D516-9002 Sulfate Water
Associated Lab Samples: 5058637006, 5058637007, 5058637008, 5058637009, 5058637010

METHOD BLANK: 690551 Matrix: Water
Associated Lab Samples: 5058637006, 5058637007, 5058637008, 5058637009, 5058637010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	5.0	02/20/12 13:51	N2

LABORATORY CONTROL SAMPLE: 690552

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	21.1	106	90-110	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 690553 690554

Parameter	Units	5058699010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	98.8	200	200	364	341	133	121	90-110	7	20	M3,N2

MATRIX SPIKE SAMPLE: 690555

Parameter	Units	5058637006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	73.5	100	248	174	90-110	E,M0,N2

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QUALIFIERS

Project: MI Plaza M01046
Pace Project No.: 5058637

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1d	Multiple compounds RPD's are outside of the required control limits. Refer to the LCS for system control and data acceptability. slb022312
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.: 5058637

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5058637001	**MMW-P-09S**	EPA 8260	MSV/39751		
5058637002	**MMW-P-09D**	EPA 8260	MSV/39751		
5058637003	**Dup 1**	EPA 8260	MSV/39751		
5058637004	**MMW-C-02S**	EPA 8260	MSV/39751		
5058637005	**MMW-C-02D**	EPA 8260	MSV/39751		
5058637006	**MMW-C-01**	EPA 8260	MSV/39751		
5058637007	**MMW-P-11S**	EPA 8260	MSV/39751		
5058637008	**MMW-P-11DR**	EPA 8260	MSV/39751		
5058637009	**MMW-P-12S**	EPA 8260	MSV/39751		
5058637010	**MMW-P-12D**	EPA 8260	MSV/39751		
5058637011	**MMW-15S**	EPA 8260	MSV/39771		
5058637012	**MMW-15D**	EPA 8260	MSV/39771		
5058637013	**Trip Blank**	EPA 8260	MSV/39771		
5058637006	**MMW-C-01**	SM 5310C	OHIO/1755		
5058637007	**MMW-P-11S**	SM 5310C	OHIO/1755		
5058637008	**MMW-P-11DR**	SM 5310C	OHIO/1755		
5058637009	**MMW-P-12S**	SM 5310C	OHIO/1755		
5058637010	**MMW-P-12D**	SM 5310C	OHIO/1755		
5058637006	**MMW-C-01**	EPA 353.2	WETA/7526		
5058637007	**MMW-P-11S**	EPA 353.2	WETA/7526		
5058637008	**MMW-P-11DR**	EPA 353.2	WETA/7526		
5058637009	**MMW-P-12S**	EPA 353.2	WETA/7526		
5058637010	**MMW-P-12D**	EPA 353.2	WETA/7526		
5058637006	**MMW-C-01**	ASTM D516-90,02	WETA/7548		
5058637007	**MMW-P-11S**	ASTM D516-90,02	WETA/7548		
5058637008	**MMW-P-11DR**	ASTM D516-90,02	WETA/7548		
5058637009	**MMW-P-12S**	ASTM D516-90,02	WETA/7548		
5058637010	**MMW-P-12D**	ASTM D516-90,02	WETA/7548		

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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

1462054

Section A Required Client Information:

Company: Mundell & Assoc.
Address: 110 S. Downey Ave
Indpls IN 46219
Email To:
Phone: 317-630-9060 Fax: 317-630-9065
Requested Due Date/TAT: SAT

Section B Required Project Information:

Report To: Sarah Webb
Copy To:
Purchase Order No.:
Project Name: M1 Plaza
Project Number: M01046

Section C Invoice Information:

Attention: Marie 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): S.L. VOCs 8260; Nitrate/Nitrite 353.2; Sulfate 375.4; TOC 415.1

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	S.L. VOCs 8260	Nitrate/Nitrite 353.2	Sulfate 375.4	TOC 415.1	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 5058637
1	MMW-P-09S	WT	G			2/15/12	9:09A		3				3					X					001
2	MMW-P-09D					2/15/12	9:36A		3				3										002
3	DUP1								3				3										003
4	MMW-C-02S						10:04A		3				3										004
5	MMW-C-02D						10:47A		3				3										005
6	MMW-C-01						11:19A		5	1	1		3						X	X	X		006
7	MMW-P-11S						12:19P		5	1	1		3						X	X	X		007
8	MMW-P-11DR						12:58P		5	1	1		3						X	X	X		008
9	MMW-P-12S						1:33P		5	1	1		3						X	X	X		009
10	MMW-P-12D						2:05P		5	1	1		3						X	X	X		010
11	MMW-15S						2:51P		3				3										011
12	MMW-15D						3:17P		3				3										012 TB03

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	2/16/12	1.25	Zoka Tech	2/16/12	1.25	1.9°	Y	N	Y

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

WIPACE Del
Rch Mcdlp Pace 2/16/12 @ 952

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Andy Dammeyer
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 2/15/12

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

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

Sample Condition Upon Receipt

Pace Analytical

Client Name: MUNDELL

Project # 50558637

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

Tracking #: _____

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

Date/Time 5035A kits placed in freezer _____

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other ICE/FOAM bl KS

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 1.9 °C

(Corrected, if applicable)

Ice Visible in Sample Containers: ☐ yes ☒ no

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 2/16/12 Kelly

		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. took copy to wetchem
Rush Turn Around Time Requested:	☐Yes ☒No ☐N/A	6.
Containers Intact:	☒Yes ☐No ☐N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	☒Yes ☐No ☐N/A	8.
All containers needing acid/base pres have been checked? exceptions: VOA, coliform, TOC, O&G	☐Yes ☐No ☒N/A	9. (Circle) HNO3 H2SO4 NaOH HCl
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☒N/A	
Headspace in VOA Vials (>6mm): KB 2/16/12	☐Yes ☒No ☐N/A	10.
Trip Blank Present:	☒Yes ☐No ☐N/A	11. 3 Trip blanks Rec. Not on the C.O.C.
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 Sapp **Date:** 2/16/12

Sample Container Count

CLIENT Mundell

COC PAGE 1 of 1

COC ID# 1462054

Project # 5058637

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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																	
4																	
5																	
6									1		1						
7									1		1						
8									1		1						
9									1		1						
10									1		1						
11																	
12																	
13	3																

TRIP BLANKS NOT on C.O.C.

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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March 05, 2012

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

RE: Project: MI Plaza M01046
Pace Project No.: 5058698

Dear Ms. Webb:
Enclosed are the analytical results for sample(s) received by the laboratory on February 17, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Tina Sayer

Tina Sayer

tina.sayer@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: MI Plaza M01046
Pace Project No.: 5058698

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

Ohio Certification IDs
1233 Dublin Road, Columbus, OH 43215
Indiana Drinking Water Certification #: C-OH-11
Kentucky Drinking Water Certification #: 90132
NVLAP Certification #: 90132
Ohio Microbiology Certification #: 943
Ohio Drinking Water Certification #: 1030
Ohio VAP Certification #: CL0054

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SAMPLE SUMMARY

Project: MI Plaza M01046
Pace Project No.: 5058698

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5058698001	**MMW-P-13S**	Water	02/16/12 10:35	02/17/12 12:17
5058698002	**MMW-P-13D**	Water	02/16/12 11:04	02/17/12 12:17
5058698003	**MMW-P-14S**	Water	02/16/12 12:02	02/17/12 12:17
5058698004	**MMW-P-14D**	Water	02/16/12 12:30	02/17/12 12:17
5058698005	**MW-170S**	Water	02/16/12 13:11	02/17/12 12:17
5058698006	**MW-170D**	Water	02/16/12 13:40	02/17/12 12:17
5058698007	**MW-167D**	Water	02/16/12 14:19	02/17/12 12:17
5058698008	**MMW-P-04**	Water	02/17/12 10:26	02/17/12 12:17
5058698009	**MW-168D**	Water	02/17/12 08:00	02/17/12 12:17
5058698010	**EQ Blank**	Water	02/17/12 08:00	02/17/12 12:17
5058698011	**Trip Blank**	Water	02/16/12 08:00	02/17/12 12:17

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SAMPLE ANALYTE COUNT

Project: MI Plaza M01046
Pace Project No.: 5058698

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5058698001	**MMW-P-13S**	EPA 8260	KMP	20
5058698002	**MMW-P-13D**	EPA 8260	KMP	20
5058698003	**MMW-P-14S**	EPA 8260	KMP	20
5058698004	**MMW-P-14D**	EPA 8260	KMP	20
5058698005	**MW-170S**	EPA 8260	KMP	20
5058698006	**MW-170D**	EPA 8260	KMP	20
5058698007	**MW-167D**	EPA 8260	KMP, RSW	20
5058698008	**MMW-P-04**	EPA 8260	KMP	20
		SM 5310C	GR1	1
		EPA 353.2	ILP	2
		ASTM D516-90,02	TPD	1
5058698009	**MW-168D**	EPA 8260	KMP	20
5058698010	**EQ Blank**	EPA 8260	KMP	20
5058698011	**Trip Blank**	EPA 8260	KMP	20

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5058698

Sample: MMW-P-13S **Lab ID: 5058698001** Collected: 02/16/12 10:35 Received: 02/17/12 12:17 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		02/22/12 15:47	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/22/12 15:47	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/22/12 15:47	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/22/12 15:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/22/12 15:47	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/22/12 15:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/12 15:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/12 15:47	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/22/12 15:47	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		02/22/12 15:47	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/22/12 15:47	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/22/12 15:47	127-18-4	
Toluene	ND	ug/L	5.0	1		02/22/12 15:47	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/22/12 15:47	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/22/12 15:47	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		02/22/12 15:47	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/22/12 15:47	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%.	83-123	1		02/22/12 15:47	1868-53-7	
4-Bromofluorobenzene (S)	95	%.	72-125	1		02/22/12 15:47	460-00-4	
Toluene-d8 (S)	99	%.	81-114	1		02/22/12 15:47	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5058698

Sample: MMW-P-13D **Lab ID: 5058698002** Collected: 02/16/12 11:04 Received: 02/17/12 12:17 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		02/22/12 16:20	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/22/12 16:20	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/22/12 16:20	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/22/12 16:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/22/12 16:20	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/22/12 16:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/12 16:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/12 16:20	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/22/12 16:20	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		02/22/12 16:20	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/22/12 16:20	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/22/12 16:20	127-18-4	
Toluene	ND	ug/L	5.0	1		02/22/12 16:20	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/22/12 16:20	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/22/12 16:20	79-01-6	
Vinyl chloride	**155**	ug/L	2.0	1		02/22/12 16:20	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/22/12 16:20	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97	%.	83-123	1		02/22/12 16:20	1868-53-7	
4-Bromofluorobenzene (S)	95	%.	72-125	1		02/22/12 16:20	460-00-4	
Toluene-d8 (S)	99	%.	81-114	1		02/22/12 16:20	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5058698

Sample: MMW-P-14S **Lab ID: 5058698003** Collected: 02/16/12 12:02 Received: 02/17/12 12:17 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		02/22/12 16:53	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/22/12 16:53	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/22/12 16:53	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/22/12 16:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/22/12 16:53	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/22/12 16:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/12 16:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/12 16:53	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/22/12 16:53	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		02/22/12 16:53	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/22/12 16:53	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/22/12 16:53	127-18-4	
Toluene	ND	ug/L	5.0	1		02/22/12 16:53	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/22/12 16:53	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/22/12 16:53	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		02/22/12 16:53	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/22/12 16:53	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%.	83-123	1		02/22/12 16:53	1868-53-7	
4-Bromofluorobenzene (S)	96	%.	72-125	1		02/22/12 16:53	460-00-4	
Toluene-d8 (S)	100	%.	81-114	1		02/22/12 16:53	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5058698

Sample: MMW-P-14D **Lab ID: 5058698004** Collected: 02/16/12 12:30 Received: 02/17/12 12:17 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		02/22/12 17:26	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/22/12 17:26	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/22/12 17:26	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/22/12 17:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/22/12 17:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/22/12 17:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/12 17:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/12 17:26	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/22/12 17:26	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		02/22/12 17:26	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/22/12 17:26	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/22/12 17:26	127-18-4	
Toluene	ND	ug/L	5.0	1		02/22/12 17:26	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/22/12 17:26	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/22/12 17:26	79-01-6	
Vinyl chloride	**49.6**	ug/L	2.0	1		02/22/12 17:26	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/22/12 17:26	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	95	%.	83-123	1		02/22/12 17:26	1868-53-7	
4-Bromofluorobenzene (S)	96	%.	72-125	1		02/22/12 17:26	460-00-4	
Toluene-d8 (S)	98	%.	81-114	1		02/22/12 17:26	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5058698

Sample: MW-170S **Lab ID: 5058698005** Collected: 02/16/12 13:11 Received: 02/17/12 12:17 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		02/22/12 17:58	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/22/12 17:58	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/22/12 17:58	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/22/12 17:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/22/12 17:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/22/12 17:58	75-35-4	
cis-1,2-Dichloroethene	**6.3**	ug/L	5.0	1		02/22/12 17:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/12 17:58	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/22/12 17:58	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		02/22/12 17:58	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/22/12 17:58	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/22/12 17:58	127-18-4	
Toluene	ND	ug/L	5.0	1		02/22/12 17:58	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/22/12 17:58	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/22/12 17:58	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		02/22/12 17:58	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/22/12 17:58	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	95	%.	83-123	1		02/22/12 17:58	1868-53-7	
4-Bromofluorobenzene (S)	96	%.	72-125	1		02/22/12 17:58	460-00-4	
Toluene-d8 (S)	99	%.	81-114	1		02/22/12 17:58	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5058698

Sample: MW-170D **Lab ID: 5058698006** Collected: 02/16/12 13:40 Received: 02/17/12 12:17 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		02/22/12 18:31	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/22/12 18:31	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/22/12 18:31	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/22/12 18:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/22/12 18:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/22/12 18:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/12 18:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/12 18:31	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/22/12 18:31	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		02/22/12 18:31	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/22/12 18:31	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/22/12 18:31	127-18-4	
Toluene	ND	ug/L	5.0	1		02/22/12 18:31	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/22/12 18:31	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/22/12 18:31	79-01-6	
Vinyl chloride	**88.8**	ug/L	2.0	1		02/22/12 18:31	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/22/12 18:31	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%.	83-123	1		02/22/12 18:31	1868-53-7	
4-Bromofluorobenzene (S)	95	%.	72-125	1		02/22/12 18:31	460-00-4	
Toluene-d8 (S)	99	%.	81-114	1		02/22/12 18:31	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5058698

Sample: MW-167D **Lab ID: 5058698007** Collected: 02/16/12 14:19 Received: 02/17/12 12:17 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		02/22/12 19:04	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/22/12 19:04	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/22/12 19:04	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/22/12 19:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/22/12 19:04	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/22/12 19:04	75-35-4	
cis-1,2-Dichloroethene	**541**	ug/L	10.0	2		03/01/12 12:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/12 19:04	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/22/12 19:04	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		02/22/12 19:04	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/22/12 19:04	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/22/12 19:04	127-18-4	
Toluene	ND	ug/L	5.0	1		02/22/12 19:04	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/22/12 19:04	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/22/12 19:04	79-01-6	
Vinyl chloride	**20.0**	ug/L	2.0	1		02/22/12 19:04	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/22/12 19:04	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%.	83-123	1		02/22/12 19:04	1868-53-7	
4-Bromofluorobenzene (S)	96	%.	72-125	1		02/22/12 19:04	460-00-4	
Toluene-d8 (S)	99	%.	81-114	1		02/22/12 19:04	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5058698

Sample: MMW-P-04 **Lab ID: 5058698008** Collected: 02/17/12 10:26 Received: 02/17/12 12:17 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		02/22/12 19:37	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/22/12 19:37	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/22/12 19:37	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/22/12 19:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/22/12 19:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/22/12 19:37	75-35-4	
cis-1,2-Dichloroethene	**6.9**	ug/L	5.0	1		02/22/12 19:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/12 19:37	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/22/12 19:37	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		02/22/12 19:37	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/22/12 19:37	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/22/12 19:37	127-18-4	
Toluene	ND	ug/L	5.0	1		02/22/12 19:37	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/22/12 19:37	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/22/12 19:37	79-01-6	
Vinyl chloride	**16.1**	ug/L	2.0	1		02/22/12 19:37	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/22/12 19:37	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96	%.	83-123	1		02/22/12 19:37	1868-53-7	
4-Bromofluorobenzene (S)	95	%.	72-125	1		02/22/12 19:37	460-00-4	
Toluene-d8 (S)	100	%.	81-114	1		02/22/12 19:37	2037-26-5	
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**5.5**	mg/L	0.30	1		03/02/12 22:10	7440-44-0	N2
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2							
Nitrogen, Nitrate	ND	mg/L	0.10	1		02/17/12 18:11		
Nitrogen, Nitrite	ND	mg/L	0.10	1		02/17/12 18:11		
ASTM D516-9002 Sulfate Water	Analytical Method: ASTM D516-90,02							
Sulfate	ND	mg/L	5.0	1		02/20/12 13:51	14808-79-8	N2

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5058698

Sample: MW-168D **Lab ID: 5058698009** Collected: 02/17/12 08:00 Received: 02/17/12 12:17 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		02/22/12 20:42	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/22/12 20:42	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/22/12 20:42	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/22/12 20:42	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/22/12 20:42	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/22/12 20:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/12 20:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/12 20:42	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/22/12 20:42	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		02/22/12 20:42	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/22/12 20:42	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/22/12 20:42	127-18-4	
Toluene	ND	ug/L	5.0	1		02/22/12 20:42	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/22/12 20:42	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/22/12 20:42	79-01-6	
Vinyl chloride	**108**	ug/L	2.0	1		02/22/12 20:42	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/22/12 20:42	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	94	%.	83-123	1		02/22/12 20:42	1868-53-7	
4-Bromofluorobenzene (S)	95	%.	72-125	1		02/22/12 20:42	460-00-4	
Toluene-d8 (S)	100	%.	81-114	1		02/22/12 20:42	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5058698

Sample: EQ Blank **Lab ID: 5058698010** Collected: 02/17/12 08:00 Received: 02/17/12 12:17 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		02/22/12 21:15	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/22/12 21:15	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/22/12 21:15	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/22/12 21:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/22/12 21:15	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/22/12 21:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/12 21:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/12 21:15	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/22/12 21:15	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		02/22/12 21:15	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/22/12 21:15	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/22/12 21:15	127-18-4	
Toluene	ND	ug/L	5.0	1		02/22/12 21:15	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/22/12 21:15	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/22/12 21:15	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		02/22/12 21:15	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/22/12 21:15	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	95	%.	83-123	1		02/22/12 21:15	1868-53-7	
4-Bromofluorobenzene (S)	94	%.	72-125	1		02/22/12 21:15	460-00-4	
Toluene-d8 (S)	100	%.	81-114	1		02/22/12 21:15	2037-26-5	

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ANALYTICAL RESULTS

Project: MI Plaza M01046
Pace Project No.: 5058698

Sample: Trip Blank **Lab ID: 5058698011** Collected: 02/16/12 08:00 Received: 02/17/12 12:17 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		02/22/12 18:15	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/22/12 18:15	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/22/12 18:15	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/22/12 18:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/22/12 18:15	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/22/12 18:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/12 18:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/12 18:15	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/22/12 18:15	100-41-4	
Methylene Chloride	ND	ug/L	5.0	1		02/22/12 18:15	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/22/12 18:15	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		02/22/12 18:15	127-18-4	
Toluene	ND	ug/L	5.0	1		02/22/12 18:15	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/22/12 18:15	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/22/12 18:15	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		02/22/12 18:15	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/22/12 18:15	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103	%.	83-123	1		02/22/12 18:15	1868-53-7	
4-Bromofluorobenzene (S)	98	%.	72-125	1		02/22/12 18:15	460-00-4	
Toluene-d8 (S)	98	%.	81-114	1		02/22/12 18:15	2037-26-5	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5058698

QC Batch: MSV/39779 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5058698001, 5058698002, 5058698003, 5058698004, 5058698005, 5058698006, 5058698007, 5058698008, 5058698009, 5058698010

METHOD BLANK: 691930 Matrix: Water
Associated Lab Samples: 5058698001, 5058698002, 5058698003, 5058698004, 5058698005, 5058698006, 5058698007, 5058698008, 5058698009, 5058698010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	02/22/12 10:48	
1,1-Dichloroethane	ug/L	ND	5.0	02/22/12 10:48	
1,1-Dichloroethene	ug/L	ND	5.0	02/22/12 10:48	
1,2-Dichloroethane	ug/L	ND	5.0	02/22/12 10:48	
Benzene	ug/L	ND	5.0	02/22/12 10:48	
Carbon tetrachloride	ug/L	ND	5.0	02/22/12 10:48	
Chloroform	ug/L	ND	5.0	02/22/12 10:48	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/22/12 10:48	
Ethylbenzene	ug/L	ND	5.0	02/22/12 10:48	
Methylene Chloride	ug/L	ND	5.0	02/22/12 10:48	
Naphthalene	ug/L	ND	5.0	02/22/12 10:48	
Tetrachloroethene	ug/L	ND	5.0	02/22/12 10:48	
Toluene	ug/L	ND	5.0	02/22/12 10:48	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/22/12 10:48	
Trichloroethene	ug/L	ND	5.0	02/22/12 10:48	
Vinyl chloride	ug/L	ND	2.0	02/22/12 10:48	
Xylene (Total)	ug/L	ND	10.0	02/22/12 10:48	
4-Bromofluorobenzene (S)	%.	95	72-125	02/22/12 10:48	
Dibromofluoromethane (S)	%.	98	83-123	02/22/12 10:48	
Toluene-d8 (S)	%.	100	81-114	02/22/12 10:48	

LABORATORY CONTROL SAMPLE: 691931

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	51.6	103	69-126	
1,1-Dichloroethane	ug/L	50	45.7	91	70-127	
1,1-Dichloroethene	ug/L	50	47.6	95	75-145	
1,2-Dichloroethane	ug/L	50	46.5	93	71-127	
Benzene	ug/L	50	42.0	84	76-123	
Carbon tetrachloride	ug/L	50	43.4	87	65-125	
Chloroform	ug/L	50	45.6	91	73-122	
cis-1,2-Dichloroethene	ug/L	50	44.7	89	79-129	
Ethylbenzene	ug/L	50	48.8	98	75-120	
Methylene Chloride	ug/L	50	44.8	90	61-138	
Naphthalene	ug/L	50	52.9	106	62-130	
Tetrachloroethene	ug/L	50	28.9	58	57-125	
Toluene	ug/L	50	46.4	93	72-124	
trans-1,2-Dichloroethene	ug/L	50	46.5	93	71-145	
Trichloroethene	ug/L	50	46.6	93	77-122	
Vinyl chloride	ug/L	50	43.0	86	61-146	

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(317)875-5894

QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5058698

LABORATORY CONTROL SAMPLE: 691931

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	144	96	72-126	
4-Bromofluorobenzene (S)	%.			99	72-125	
Dibromofluoromethane (S)	%.			94	83-123	
Toluene-d8 (S)	%.			100	81-114	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5058698

QC Batch: MSV/39780
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Associated Lab Samples: 5058698011

METHOD BLANK: 691933
Matrix: Water
Associated Lab Samples: 5058698011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	02/22/12 11:05	
1,1-Dichloroethane	ug/L	ND	5.0	02/22/12 11:05	
1,1-Dichloroethene	ug/L	ND	5.0	02/22/12 11:05	
1,2-Dichloroethane	ug/L	ND	5.0	02/22/12 11:05	
Benzene	ug/L	ND	5.0	02/22/12 11:05	
Carbon tetrachloride	ug/L	ND	5.0	02/22/12 11:05	
Chloroform	ug/L	ND	5.0	02/22/12 11:05	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/22/12 11:05	
Ethylbenzene	ug/L	ND	5.0	02/22/12 11:05	
Methylene Chloride	ug/L	ND	5.0	02/22/12 11:05	
Naphthalene	ug/L	ND	5.0	02/22/12 11:05	
Tetrachloroethene	ug/L	ND	5.0	02/22/12 11:05	
Toluene	ug/L	ND	5.0	02/22/12 11:05	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/22/12 11:05	
Trichloroethene	ug/L	ND	5.0	02/22/12 11:05	
Vinyl chloride	ug/L	ND	2.0	02/22/12 11:05	
Xylene (Total)	ug/L	ND	10.0	02/22/12 11:05	
4-Bromofluorobenzene (S)	%.	97	72-125	02/22/12 11:05	
Dibromofluoromethane (S)	%.	104	83-123	02/22/12 11:05	
Toluene-d8 (S)	%.	101	81-114	02/22/12 11:05	

LABORATORY CONTROL SAMPLE: 691934

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	45.9	92	69-126	
1,1-Dichloroethane	ug/L	50	40.7	81	70-127	
1,1-Dichloroethene	ug/L	50	42.4	85	75-145	
1,2-Dichloroethane	ug/L	50	41.3	83	71-127	
Benzene	ug/L	50	41.0	82	76-123	
Carbon tetrachloride	ug/L	50	43.3	87	65-125	
Chloroform	ug/L	50	40.4	81	73-122	
cis-1,2-Dichloroethene	ug/L	50	40.2	80	79-129	
Ethylbenzene	ug/L	50	44.8	90	75-120	
Methylene Chloride	ug/L	50	42.5	85	61-138	
Naphthalene	ug/L	50	42.0	84	62-130	
Tetrachloroethene	ug/L	50	33.3	67	57-125	
Toluene	ug/L	50	44.3	89	72-124	
trans-1,2-Dichloroethene	ug/L	50	41.6	83	71-145	
Trichloroethene	ug/L	50	43.4	87	77-122	
Vinyl chloride	ug/L	50	42.9	86	61-146	
Xylene (Total)	ug/L	150	136	91	72-126	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5058698

LABORATORY CONTROL SAMPLE: 691934

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%.			99	72-125	
Dibromofluoromethane (S)	%.			91	83-123	
Toluene-d8 (S)	%.			102	81-114	

MATRIX SPIKE SAMPLE: 691935

Parameter	Units	5058642003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	50	137	274	37-136	M0
1,1-Dichloroethane	ug/L	ND	50	44.1	88	47-138	
1,1-Dichloroethene	ug/L	ND	50	50.9	102	54-152	
1,2-Dichloroethane	ug/L	ND	50	42.3	85	42-139	
Benzene	ug/L	ND	50	43.7	87	52-134	
Carbon tetrachloride	ug/L	ND	50	47.2	94	26-136	
Chloroform	ug/L	119	50	150	62	50-134	
cis-1,2-Dichloroethene	ug/L	ND	50	43.5	86	48-145	
Ethylbenzene	ug/L	ND	50	47.6	95	29-132	
Methylene Chloride	ug/L	ND	50	48.9	98	47-141	
Naphthalene	ug/L	ND	50	37.4	72	40-124	
Tetrachloroethene	ug/L	ND	50	36.5	73	30-124	
Toluene	ug/L	ND	50	46.5	93	42-130	
trans-1,2-Dichloroethene	ug/L	ND	50	46.8	94	48-144	
Trichloroethene	ug/L	ND	50	48.7	94	44-130	
Vinyl chloride	ug/L	ND	50	52.5	105	45-159	
Xylene (Total)	ug/L	ND	150	134	90	29-131	
4-Bromofluorobenzene (S)	%.				101	72-125	
Dibromofluoromethane (S)	%.				96	83-123	
Toluene-d8 (S)	%.				102	81-114	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5058698

QC Batch: OHIO/1780
QC Batch Method: SM 5310C
Analysis Method: SM 5310C
Analysis Description: 5310C TOC
Associated Lab Samples: 5058698008

METHOD BLANK: 695524 Matrix: Water
Associated Lab Samples: 5058698008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	0.30	03/02/12 07:49	N2

METHOD BLANK: 695529 Matrix: Water
Associated Lab Samples: 5058698008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	0.30	03/02/12 14:52	N2

LABORATORY CONTROL SAMPLE: 695525

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

LABORATORY CONTROL SAMPLE: 695530

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 695527 695528

Parameter	Units	5059066001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	3.7	4	4	7.3	7.5	91	95	75-125	2	20	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 695532 695533

Parameter	Units	5059141001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	24.2	4	4	28.9	28.9	117	115	75-125	.2	20	N2

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5058698

SAMPLE DUPLICATE: 695526

Parameter	Units	5059066001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	3.7	3.7	.5	20	N2

SAMPLE DUPLICATE: 695531

Parameter	Units	5059141001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	24.2	23.4	4	20	N2

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5058698

QC Batch: WETA/7537
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 5058698008

METHOD BLANK: 689876
Matrix: Water
Associated Lab Samples: 5058698008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	02/17/12 17:48	
Nitrogen, Nitrite	mg/L	ND	0.10	02/17/12 17:48	

LABORATORY CONTROL SAMPLE: 689877

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2	1.9	97	90-110	
Nitrogen, Nitrite	mg/L	2	2.0	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 689878 689879

Parameter	Units	5058699010 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	93	95	90-110	2	20	
Nitrogen, Nitrite	mg/L	ND	2	2	2.0	1.9	99	96	90-110	2	20	

MATRIX SPIKE SAMPLE: 689880

Parameter	Units	5058724005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	0.36	2	2.3	95	90-110	
Nitrogen, Nitrite	mg/L	ND	2	1.9	93	90-110	

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QUALITY CONTROL DATA

Project: MI Plaza M01046
Pace Project No.: 5058698

QC Batch: WETA/7548
QC Batch Method: ASTM D516-90,02
Associated Lab Samples: 5058698008

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

METHOD BLANK: 690551
Matrix: Water
Associated Lab Samples: 5058698008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	5.0	02/20/12 13:51	N2

LABORATORY CONTROL SAMPLE: 690552

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	21.1	106	90-110	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 690553 690554

Parameter	Units	5058699010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	98.8	200	200	364	341	133	121	90-110	7	20	M3,N2

MATRIX SPIKE SAMPLE: 690555

Parameter	Units	5058637006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	73.5	100	248	174	90-110	E,M0,N2

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QUALIFIERS

Project: MI Plaza M01046
Pace Project No.: 5058698

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MI Plaza M01046
Pace Project No.: 5058698

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5058698001	**MMW-P-13S**	EPA 8260	MSV/39779		
5058698002	**MMW-P-13D**	EPA 8260	MSV/39779		
5058698003	**MMW-P-14S**	EPA 8260	MSV/39779		
5058698004	**MMW-P-14D**	EPA 8260	MSV/39779		
5058698005	**MW-170S**	EPA 8260	MSV/39779		
5058698006	**MW-170D**	EPA 8260	MSV/39779		
5058698007	**MW-167D**	EPA 8260	MSV/39779		
5058698008	**MMW-P-04**	EPA 8260	MSV/39779		
5058698009	**MW-168D**	EPA 8260	MSV/39779		
5058698010	**EQ Blank**	EPA 8260	MSV/39779		
5058698011	**Trip Blank**	EPA 8260	MSV/39780		
5058698008	**MMW-P-04**	SM 5310C	OHIO/1780		
5058698008	**MMW-P-04**	EPA 353.2	WETA/7537		
5058698008	**MMW-P-04**	ASTM D516-90,02	WETA/7548		

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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

1462056

Section A Required Client Information:

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

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

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE:

Section D Required Client Information

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

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

Requested Analysis Filtered (Y/N): S.L. VOC's 8260; Nitrate/nitrite 353.2; Sulfate 375.4; TOC 415.1

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MMW-P-13S	WT	G					2/16/12	10:35A		3				3						001
2	MMW-P-13D								11:04A		3				3						002
3	MMW-P-14S								12:02p		3				3						003
4	MMW-P-14D								12:30p		3				3						004
5	MW-170S								1:11p		3				3						005
6	MW-170D								1:40p		3				3						006
7	MW-167D								2:19p		3				3						007
8	~~MW MW-P-04~~							2/17/12	10:20a		5	1	1		3						008
9	MW-168D										3				3						009
10	EQ Blank										3				3						010
11	Trip Blank										3				3						011
12																					

Analysis Test (Y/N): S.L. VOC's 8260 — Y; Nitrate/nitrite 353.2 — Y; Sulfate 375.4 — X; TOC 415.1 — X

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
		2-17-12	12:17		2-17-12	12:17	2.1°C Y	N	Y

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

W/Ice Client

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Andy Dannenfelser
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 2/16/12

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

Sample Condition Upon Receipt

Pace Analytical

Client Name: Mundey + Assoc. Project # 5058698

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) 2.1°C Ice Visible in Sample Containers: ☐ yes ☒ no

Temp should be above freezing to 6°C

Date and Initials of person examining contents: ARH 2-17-12

				Comments:
Chain of Custody Present:	☒Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☒Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☒Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☒Yes	☐No	☐N/A	4.
Short Hold Time Analysis (<72hr):	☐Yes	☒No	☐N/A	5.
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: [signature] Date: 2/17/12

Sample Container Count

Pace Analytical
www.pacelabs.com

CLIENT: Munday + Assoc

COC PAGE 1 of 1
COC ID# 1462056

Project # 5058698

Sample Line Item	DG9H	AG1U	WGFU	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H				Comments
1	3															
2																
3																
4																
5																
6																
7	2															
8	3								1		1					
9																
10																EQ Blank
11																trip Blank
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
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March 2, 2012

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

RE: **MI PLAZA / M01046**
Microseeps Workorder: 4257

Dear Sarah Webb:

Enclosed are the analytical results for sample(s) received by the laboratory on Tuesday, February 21, 2012. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Heather Hauser (RA) 3/2/12

Heather Hauser 03/02/2012
hhauser@microseeps.com

Enclosures

Total Number of Pages 42

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LABORATORY ACCREDITATIONS & CERTIFICATIONS

Accreditor:	Pennsylvania Department of Environmental Protection, Bureau of Laboratories
Accreditation ID:	02-00538
Scope:	NELAP Non-Potable Water and Solid & Hazardous Waste
Accreditor:	NELAP: State of Florida, Department of Health, Bureau of Laboratories
Accreditation ID:	E87832
Scope:	Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA)
Accreditor:	South Carolina Department of Health and Environmental Control, Office of Environmental Laboratory Certification
Accreditation ID:	89009003
Scope:	Clean Water Act (CWA); Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: State of Louisiana, Department of Environmental Quality
Accreditation ID:	04104
Scope:	Solid and Chemical Materials; Non-Potable Water
Accreditor:	NELAP: New Jersey, Department of Environmental Protection
Accreditation ID:	PA026
Scope:	Non-Potable Water; Solid and Chemical Materials
Accreditor:	NELAP: New York, Department of Health Wadsworth Center
Accreditation ID:	11815
Scope:	Non-Potable Water; Solid and Hazardous Waste
Accreditor:	State of Connecticut, Department of Public Health, Division of Environmental Health
Accreditation ID:	PH-0263
Scope:	Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: Texas, Commission on Environmental Quality
Accreditation ID:	T104704453-09-TX
Scope:	Non-Potable Water
Accreditor:	State of New Hampshire
Accreditation ID:	299409
Scope:	Non-potable water
Accreditor:	State of Georgia
Accreditation ID:	Chapter 391-3-26
Scope:	As per the Georgia EPD Rules and Regulations for Commercial Laboratories, Microseeps is accredited by the Pennsylvania Department of Environmental Protection Bureau of Laboratories under the National Environmental Laboratory Approval Program (NELAC).

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SAMPLE SUMMARY

Workorder: 4257 MI PLAZA / M01046

Lab ID	Sample ID	Matrix	Date Collected	Date Received
42570001	MMW-P-02	Water	2/13/2012 10:16	2/21/2012 12:00
42570002	MMW-P-03D	Water	2/13/2012 10:49	2/21/2012 12:00
42570003	MMW-P-03S	Water	2/13/2012 11:21	2/21/2012 12:00
42570004	DUP-2	Water	2/13/2012 00:00	2/21/2012 12:00
42570005	MMW-P-05	Water	2/13/2012 12:15	2/21/2012 12:00
42570006	MMW-P-10S	Water	2/13/2012 12:52	2/21/2012 12:00
42570007	MMW-P-10D	Water	2/13/2012 13:23	2/21/2012 12:00
42570008	MMW-P-08	Water	2/13/2012 13:54	2/21/2012 12:00
42570009	MMW-P-07	Water	2/13/2012 14:26	2/21/2012 12:00
42570010	MMW-P-01	Water	2/13/2012 14:57	2/21/2012 12:00
42570011	MMW-P-06	Water	2/13/2012 15:27	2/21/2012 12:00
42570012	MMW-9S	Water	2/13/2012 15:57	2/21/2012 12:00
42570013	MS	Water	2/13/2012 15:57	2/21/2012 12:00
42570014	MSD	Water	2/13/2012 15:57	2/21/2012 12:00
42570015	MMW-8S	Water	2/14/2012 13:34	2/21/2012 12:00
42570016	MMW-10S	Water	2/14/2012 14:08	2/21/2012 12:00
42570017	MMW-1S	Water	2/14/2012 14:42	2/21/2012 12:00
42570018	MMW-C-01	Water	2/15/2012 11:19	2/21/2012 12:00
42570019	MMW-P-11S	Water	2/15/2012 12:19	2/21/2012 12:00
42570020	MMW-P-11DR	Water	2/15/2012 12:58	2/21/2012 12:00
42570021	MMW-P-12S	Water	2/15/2012 13:33	2/21/2012 12:00
42570022	MMW-P-12D	Water	2/15/2012 14:05	2/21/2012 12:00
42570023	MMW-P-04	Water	2/17/2012 10:26	2/21/2012 12:00

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PROJECT SUMMARY

Workorder: 4257 MI PLAZA / M01046

Batch Comments

Batch: DISG/1908 - AM20GAX Water QC

The matrix spike and/or matrix spike duplicate, recovery or relative percent difference; accuracy influenced by the concentration of the reference sample; 42570012. Analyte Methane. Batch acceptance based on laboratory control sample recovery.

Batch: EDON/1294 - Low Level Volatile Fatty Acids

The LCS was outside of control limits for pentanoic and hexanoic acids

Batch: EDON/1296 - Low Level Volatile Fatty Acids

The percent recovery for the hexanoic acids was outside of control limits for the LCS analyses

Batch: DISG/1916 - AM20GAX Water QC

The matrix spike and/or matrix spike duplicate, recovery or relative percent difference; accuracy influenced by the concentration of the reference sample; 42190004. Analyte Methane. Batch acceptance based on laboratory control sample recovery.

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ANALYTICAL RESULTS

Workorder: 4257 MI PLAZA / M01046

Lab ID: **42570001** Date Received: 2/21/2012 12:00 Matrix: Water

Sample ID: **MMW-P-02** Date Collected: 2/13/2012 10:16

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	**12000**	ug/l	0.10	0.015	1			2/23/2012 07:54	BW	
Ethane	**1.4**	ug/l	0.025	0.0010	1			2/23/2012 07:54	BW	
Ethene	**140**	ug/l	0.025	0.0060	1			2/23/2012 07:54	BW	
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	**0.027J**	mg/l	0.10	0.010	1			2/23/2012 11:51	KB	
Acetic Acid	**0.43**	mg/l	0.070	0.0060	1			2/23/2012 11:51	KB	
Propionic Acid	**0.050 U**	mg/l	0.050	0.0070	1			2/23/2012 11:51	KB	
Butyric Acid	**0.050 U**	mg/l	0.050	0.0040	1			2/23/2012 11:51	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.033	1			2/23/2012 11:51	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.044	1			2/23/2012 11:51	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.012	1			2/23/2012 11:51	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			2/23/2012 11:51	KB	
Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			2/23/2012 11:51	KB	

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ANALYTICAL RESULTS

Workorder: 4257 MI PLAZA / M01046

Lab ID: **42570002** Date Received: 2/21/2012 12:00 Matrix: Water

Sample ID: **MMW-P-03D** Date Collected: 2/13/2012 10:49

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX		Analytical Method: AM20GAX								
Methane	**24000**	ug/l	0.10	0.015	1			2/23/2012 08:06	BW	
Ethane	**5.0**	ug/l	0.025	0.0010	1			2/23/2012 08:06	BW	
Ethene	**2400**	ug/l	0.025	0.0060	1			2/23/2012 08:06	BW	
EDonors - MICR										
Analysis Desc: AM23G		Analytical Method: AM23G								
Lactic Acid	**0.46J**	mg/l	1.0	0.10	10			2/24/2012 15:22	KB	
Acetic Acid	**18**	mg/l	0.70	0.060	10			2/24/2012 15:22	KB	
Propionic Acid	**0.50**	mg/l	0.050	0.0070	1			2/23/2012 13:15	KB	
Butyric Acid	**0.092**	mg/l	0.050	0.0040	1			2/23/2012 13:15	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.033	1			2/23/2012 13:15	KB	
i-Pentanoic Acid	**0.084J**	mg/l	0.15	0.044	1			2/23/2012 13:15	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.012	1			2/23/2012 13:15	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			2/23/2012 13:15	KB	
Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			2/23/2012 13:15	KB	

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ANALYTICAL RESULTS

Workorder: 4257 MI PLAZA / M01046

Lab ID: **42570003** Date Received: 2/21/2012 12:00 Matrix: Water

Sample ID: **MMW-P-03S** Date Collected: 2/13/2012 11:21

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX		Analytical Method: AM20GAX								
Methane	**14000**	ug/l	0.10	0.015	1			2/23/2012 08:15	BW	
Ethane	**0.53**	ug/l	0.025	0.0010	1			2/23/2012 08:15	BW	
Ethene	**170**	ug/l	0.025	0.0060	1			2/23/2012 08:15	BW	
EDonors - MICR										
Analysis Desc: AM23G		Analytical Method: AM23G								
Lactic Acid	**0.045J**	mg/l	0.10	0.010	1			2/23/2012 16:04	KB	
Acetic Acid	**0.25**	mg/l	0.070	0.0060	1			2/23/2012 16:04	KB	
Propionic Acid	**0.050 U**	mg/l	0.050	0.0070	1			2/23/2012 16:04	KB	
Butyric Acid	**0.050 U**	mg/l	0.050	0.0040	1			2/23/2012 16:04	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.033	1			2/23/2012 16:04	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.044	1			2/23/2012 16:04	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.012	1			2/23/2012 16:04	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			2/23/2012 16:04	KB	
Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			2/23/2012 16:04	KB	

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ANALYTICAL RESULTS

Workorder: 4257 MI PLAZA / M01046

Lab ID: **42570004** Date Received: 2/21/2012 12:00 Matrix: Water
Sample ID: **DUP-2** Date Collected: 2/13/2012 00:00

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	**16000**	ug/l	0.10	0.015	1			2/23/2012 08:28	BW	
Ethane	**0.58**	ug/l	0.025	0.0010	1			2/23/2012 08:28	BW	
Ethene	**180**	ug/l	0.025	0.0060	1			2/23/2012 08:28	BW	
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	**0.025J**	mg/l	0.10	0.010	1			2/23/2012 16:46	KB	
Acetic Acid	**0.27**	mg/l	0.070	0.0060	1			2/23/2012 16:46	KB	
Propionic Acid	**0.011J**	mg/l	0.050	0.0070	1			2/23/2012 16:46	KB	
Butyric Acid	**0.050 U**	mg/l	0.050	0.0040	1			2/23/2012 16:46	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.033	1			2/23/2012 16:46	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.044	1			2/23/2012 16:46	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.012	1			2/23/2012 16:46	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			2/23/2012 16:46	KB	
Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			2/23/2012 16:46	KB	

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ANALYTICAL RESULTS

Workorder: 4257 MI PLAZA / M01046

Lab ID: **42570005** Date Received: 2/21/2012 12:00 Matrix: Water

Sample ID: **MMW-P-05** Date Collected: 2/13/2012 12:15

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX		Analytical Method: AM20GAX								
Methane	**11000**	ug/l	0.10	0.015	1			2/23/2012 08:40	BW	
Ethane	**0.20**	ug/l	0.025	0.0010	1			2/23/2012 08:40	BW	
Ethene	**63**	ug/l	0.025	0.0060	1			2/23/2012 08:40	BW	
EDonors - MICR										
Analysis Desc: AM23G		Analytical Method: AM23G								
Lactic Acid	**1.0 U**	mg/l	1.0	0.10	10			2/24/2012 16:04	KB	
Acetic Acid	**4.2**	mg/l	0.70	0.060	10			2/24/2012 16:04	KB	
Propionic Acid	**0.26J**	mg/l	0.50	0.070	10			2/24/2012 16:04	KB	
Butyric Acid	**0.066**	mg/l	0.050	0.0040	1			2/23/2012 17:28	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.033	1			2/23/2012 17:28	KB	
i-Pentanoic Acid	**0.055J**	mg/l	0.15	0.044	1			2/23/2012 17:28	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.012	1			2/23/2012 17:28	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			2/23/2012 17:28	KB	
Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			2/23/2012 17:28	KB	

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ANALYTICAL RESULTS

Workorder: 4257 MI PLAZA / M01046

Lab ID: **42570006** Date Received: 2/21/2012 12:00 Matrix: Water

Sample ID: **MMW-P-10S** Date Collected: 2/13/2012 12:52

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX		Analytical Method: AM20GAX								
Methane	**9000**	ug/l	0.10	0.015	1			2/23/2012 08:51	BW	
Ethane	**2.8**	ug/l	0.025	0.0010	1			2/23/2012 08:51	BW	
Ethene	**15**	ug/l	0.025	0.0060	1			2/23/2012 08:51	BW	
EDonors - MICR										
Analysis Desc: AM23G		Analytical Method: AM23G								
Lactic Acid	**0.13**	mg/l	0.10	0.010	1			2/23/2012 18:10	KB	
Acetic Acid	**0.18**	mg/l	0.070	0.0060	1			2/23/2012 18:10	KB	
Propionic Acid	**0.050 U**	mg/l	0.050	0.0070	1			2/23/2012 18:10	KB	
Butyric Acid	**0.050 U**	mg/l	0.050	0.0040	1			2/23/2012 18:10	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.033	1			2/23/2012 18:10	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.044	1			2/23/2012 18:10	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.012	1			2/23/2012 18:10	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			2/23/2012 18:10	KB	
Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			2/23/2012 18:10	KB	

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ANALYTICAL RESULTS

Workorder: 4257 MI PLAZA / M01046

Lab ID: **42570007** Date Received: 2/21/2012 12:00 Matrix: Water

Sample ID: **MMW-P-10D** Date Collected: 2/13/2012 13:23

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX		Analytical Method: AM20GAX								
Methane	**16000**	ug/l	0.10	0.015	1			2/23/2012 09:04	BW	
Ethane	**2.6**	ug/l	0.025	0.0010	1			2/23/2012 09:04	BW	
Ethene	**360**	ug/l	0.025	0.0060	1			2/23/2012 09:04	BW	
EDonors - MICR										
Analysis Desc: AM23G		Analytical Method: AM23G								
Lactic Acid	**0.025J**	mg/l	0.10	0.010	1			2/23/2012 18:52	KB	
Acetic Acid	**0.014J**	mg/l	0.070	0.0060	1			2/23/2012 18:52	KB	
Propionic Acid	**0.011J**	mg/l	0.050	0.0070	1			2/23/2012 18:52	KB	
Butyric Acid	**0.036J**	mg/l	0.050	0.0040	1			2/23/2012 18:52	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.033	1			2/23/2012 18:52	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.044	1			2/23/2012 18:52	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.012	1			2/23/2012 18:52	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			2/23/2012 18:52	KB	
Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			2/23/2012 18:52	KB	

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ANALYTICAL RESULTS

Workorder: 4257 MI PLAZA / M01046

Lab ID: **42570008** Date Received: 2/21/2012 12:00 Matrix: Water

Sample ID: **MMW-P-08** Date Collected: 2/13/2012 13:54

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX		Analytical Method: AM20GAX								
Methane	**8000**	ug/l	0.10	0.015	1			2/23/2012 09:14	BW	
Ethane	**3.4**	ug/l	0.025	0.0010	1			2/23/2012 09:14	BW	
Ethene	**220**	ug/l	0.025	0.0060	1			2/23/2012 09:14	BW	
EDonors - MICR										
Analysis Desc: AM23G		Analytical Method: AM23G								
Lactic Acid	**0.020J**	mg/l	0.10	0.010	1			2/23/2012 19:34	KB	
Acetic Acid	**0.040J**	mg/l	0.070	0.0060	1			2/23/2012 19:34	KB	
Propionic Acid	**0.050 U**	mg/l	0.050	0.0070	1			2/23/2012 19:34	KB	
Butyric Acid	**0.050 U**	mg/l	0.050	0.0040	1			2/23/2012 19:34	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.033	1			2/23/2012 19:34	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.044	1			2/23/2012 19:34	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.012	1			2/23/2012 19:34	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			2/23/2012 19:34	KB	
Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			2/23/2012 19:34	KB	

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ANALYTICAL RESULTS

Workorder: 4257 MI PLAZA / M01046

Lab ID: **42570009** Date Received: 2/21/2012 12:00 Matrix: Water
Sample ID: **MMW-P-07** Date Collected: 2/13/2012 14:26

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX		Analytical Method: AM20GAX								
Methane	**12000**	ug/l	0.10	0.015	1			2/23/2012 09:27	BW	
Ethane	**0.26**	ug/l	0.025	0.0010	1			2/23/2012 09:27	BW	
Ethene	**190**	ug/l	0.025	0.0060	1			2/23/2012 09:27	BW	
EDonors - MICR										
Analysis Desc: AM23G		Analytical Method: AM23G								
Lactic Acid	**0.023J**	mg/l	0.10	0.010	1			2/23/2012 20:16	KB	
Acetic Acid	**0.52**	mg/l	0.070	0.0060	1			2/23/2012 20:16	KB	
Propionic Acid	**0.050 U**	mg/l	0.050	0.0070	1			2/23/2012 20:16	KB	
Butyric Acid	**0.041J**	mg/l	0.050	0.0040	1			2/23/2012 20:16	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.033	1			2/23/2012 20:16	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.044	1			2/23/2012 20:16	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.012	1			2/23/2012 20:16	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			2/23/2012 20:16	KB	
Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			2/23/2012 20:16	KB	

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ANALYTICAL RESULTS

Workorder: 4257 MI PLAZA / M01046

Lab ID: **42570010** Date Received: 2/21/2012 12:00 Matrix: Water

Sample ID: **MMW-P-01** Date Collected: 2/13/2012 14:57

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX		Analytical Method: AM20GAX								
Methane	**14000**	ug/l	0.10	0.015	1			2/23/2012 09:37	BW	
Ethane	**0.65**	ug/l	0.025	0.0010	1			2/23/2012 09:37	BW	
Ethene	**1700**	ug/l	0.025	0.0060	1			2/23/2012 09:37	BW	
EDonors - MICR										
Analysis Desc: AM23G		Analytical Method: AM23G								
Lactic Acid	**0.047J**	mg/l	0.10	0.010	1			2/23/2012 20:59	KB	
Acetic Acid	**0.021J**	mg/l	0.070	0.0060	1			2/23/2012 20:59	KB	
Propionic Acid	**0.050 U**	mg/l	0.050	0.0070	1			2/23/2012 20:59	KB	
Butyric Acid	**0.050 U**	mg/l	0.050	0.0040	1			2/23/2012 20:59	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.033	1			2/23/2012 20:59	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.044	1			2/23/2012 20:59	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.012	1			2/23/2012 20:59	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			2/23/2012 20:59	KB	
Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			2/23/2012 20:59	KB	

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ANALYTICAL RESULTS

Workorder: 4257 MI PLAZA / M01046

Lab ID: **42570011** Date Received: 2/21/2012 12:00 Matrix: Water

Sample ID: **MMW-P-06** Date Collected: 2/13/2012 15:27

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	**17000**	ug/l	0.10	0.015	1			2/23/2012 09:46	BW	
Ethane	**0.87**	ug/l	0.025	0.0010	1			2/23/2012 09:46	BW	
Ethene	**1800**	ug/l	0.025	0.0060	1			2/23/2012 09:46	BW	
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	**0.048J**	mg/l	0.10	0.010	1			2/23/2012 21:41	KB	
Acetic Acid	**0.37**	mg/l	0.070	0.0060	1			2/23/2012 21:41	KB	
Propionic Acid	**0.050 U**	mg/l	0.050	0.0070	1			2/23/2012 21:41	KB	
Butyric Acid	**0.050 U**	mg/l	0.050	0.0040	1			2/23/2012 21:41	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.033	1			2/23/2012 21:41	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.044	1			2/23/2012 21:41	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.012	1			2/23/2012 21:41	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			2/23/2012 21:41	KB	
Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			2/23/2012 21:41	KB	

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ANALYTICAL RESULTS

Workorder: 4257 MI PLAZA / M01046

Lab ID: **42570012** Date Received: 2/21/2012 12:00 Matrix: Water

Sample ID: **MMW-9S** Date Collected: 2/13/2012 15:57

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX		Analytical Method: AM20GAX								
Methane	**12000**	ug/l	0.10	0.015	1			2/23/2012 09:59	BW	
Ethane	**2.0**	ug/l	0.025	0.0010	1			2/23/2012 09:59	BW	
Ethene	**65**	ug/l	0.025	0.0060	1			2/23/2012 09:59	BW	
EDonors - MICR										
Analysis Desc: AM23G		Analytical Method: AM23G								
Lactic Acid	**0.034J**	mg/l	0.10	0.010	1			2/23/2012 22:23	KB	
Acetic Acid	**0.013J**	mg/l	0.070	0.0060	1			2/23/2012 22:23	KB	
Propionic Acid	**0.050 U**	mg/l	0.050	0.0070	1			2/23/2012 22:23	KB	
Butyric Acid	**0.050 U**	mg/l	0.050	0.0040	1			2/23/2012 22:23	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.033	1			2/23/2012 22:23	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.044	1			2/23/2012 22:23	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.012	1			2/23/2012 22:23	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			2/23/2012 22:23	KB	
Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			2/23/2012 22:23	KB	

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ANALYTICAL RESULTS

Workorder: 4257 MI PLAZA / M01046

Lab ID: **42570013** Date Received: 2/21/2012 12:00 Matrix: Water
Sample ID: **MS** Date Collected: 2/13/2012 15:57

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	**13000**	ug/l	0.10	0.015	1			2/23/2012 10:49	BW	
Ethane	**42**	ug/l	0.025	0.0010	1			2/23/2012 10:49	BW	
Ethene	**110**	ug/l	0.025	0.0060	1			2/23/2012 10:49	BW	
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	**2.0**	mg/l	0.10	0.010	1			2/23/2012 23:05	KB	
Acetic Acid	**2.1**	mg/l	0.070	0.0060	1			2/23/2012 23:05	KB	
Propionic Acid	**2.0**	mg/l	0.050	0.0070	1			2/23/2012 23:05	KB	
Butyric Acid	**2.0**	mg/l	0.050	0.0040	1			2/23/2012 23:05	KB	
Pyruvic Acid	**2.0**	mg/l	0.15	0.033	1			2/23/2012 23:05	KB	
i-Pentanoic Acid	**1.9**	mg/l	0.15	0.044	1			2/23/2012 23:05	KB	
Pentanoic Acid	**1.9**	mg/l	0.070	0.012	1			2/23/2012 23:05	KB	
i-Hexanoic Acid	**1.6**	mg/l	0.050	0.0060	1			2/23/2012 23:05	KB	
Hexanoic Acid	**1.3**	mg/l	0.050	0.0060	1			2/23/2012 23:05	KB	

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ANALYTICAL RESULTS

Workorder: 4257 MI PLAZA / M01046

Lab ID: **42570014** Date Received: 2/21/2012 12:00 Matrix: Water
Sample ID: **MSD** Date Collected: 2/13/2012 15:57

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX		Analytical Method: AM20GAX								
Methane	**13000**	ug/l	0.10	0.015	1			2/23/2012 11:10	BW	
Ethane	**41**	ug/l	0.025	0.0010	1			2/23/2012 11:10	BW	
Ethene	**110**	ug/l	0.025	0.0060	1			2/23/2012 11:10	BW	
EDonors - MICR										
Analysis Desc: AM23G		Analytical Method: AM23G								
Lactic Acid	**2.3**	mg/l	0.10	0.010	1			2/23/2012 23:47	KB	
Acetic Acid	**2.1**	mg/l	0.070	0.0060	1			2/23/2012 23:47	KB	
Propionic Acid	**2.1**	mg/l	0.050	0.0070	1			2/23/2012 23:47	KB	
Butyric Acid	**2.1**	mg/l	0.050	0.0040	1			2/23/2012 23:47	KB	
Pyruvic Acid	**2.1**	mg/l	0.15	0.033	1			2/23/2012 23:47	KB	
i-Pentanoic Acid	**2.0**	mg/l	0.15	0.044	1			2/23/2012 23:47	KB	
Pentanoic Acid	**2.0**	mg/l	0.070	0.012	1			2/23/2012 23:47	KB	
i-Hexanoic Acid	**1.9**	mg/l	0.050	0.0060	1			2/23/2012 23:47	KB	
Hexanoic Acid	**1.7**	mg/l	0.050	0.0060	1			2/23/2012 23:47	KB	

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ANALYTICAL RESULTS

Workorder: 4257 MI PLAZA / M01046

Lab ID: **42570015** Date Received: 2/21/2012 12:00 Matrix: Water

Sample ID: **MMW-8S** Date Collected: 2/14/2012 13:34

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	**14000**	ug/l	0.10	0.015	1			2/23/2012 11:21	BW	
Ethane	**0.10**	ug/l	0.025	0.0010	1			2/23/2012 11:21	BW	
Ethene	**27**	ug/l	0.025	0.0060	1			2/23/2012 11:21	BW	
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	**0.030J**	mg/l	0.10	0.010	1			2/24/2012 00:29	KB	
Acetic Acid	**0.017J**	mg/l	0.070	0.0060	1			2/24/2012 00:29	KB	
Propionic Acid	**0.050 U**	mg/l	0.050	0.0070	1			2/24/2012 00:29	KB	
Butyric Acid	**0.050 U**	mg/l	0.050	0.0040	1			2/24/2012 00:29	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.033	1			2/24/2012 00:29	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.044	1			2/24/2012 00:29	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.012	1			2/24/2012 00:29	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			2/24/2012 00:29	KB	
Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			2/24/2012 00:29	KB	

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ANALYTICAL RESULTS

Workorder: 4257 MI PLAZA / M01046

Lab ID: **42570016** Date Received: 2/21/2012 12:00 Matrix: Water

Sample ID: **MMW-10S** Date Collected: 2/14/2012 14:08

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	**12000**	ug/l	0.10	0.015	1			2/23/2012 11:32	BW	
Ethane	**0.11**	ug/l	0.025	0.0010	1			2/23/2012 11:32	BW	
Ethene	**21**	ug/l	0.025	0.0060	1			2/23/2012 11:32	BW	
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	**0.034J**	mg/l	0.10	0.010	1			2/24/2012 01:11	KB	
Acetic Acid	**0.016J**	mg/l	0.070	0.0060	1			2/24/2012 01:11	KB	
Propionic Acid	**0.050 U**	mg/l	0.050	0.0070	1			2/24/2012 01:11	KB	
Butyric Acid	**0.050 U**	mg/l	0.050	0.0040	1			2/24/2012 01:11	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.033	1			2/24/2012 01:11	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.044	1			2/24/2012 01:11	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.012	1			2/24/2012 01:11	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			2/24/2012 01:11	KB	
Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			2/24/2012 01:11	KB	

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ANALYTICAL RESULTS

Workorder: 4257 MI PLAZA / M01046

Lab ID: **42570017** Date Received: 2/21/2012 12:00 Matrix: Water

Sample ID: **MMW-1S** Date Collected: 2/14/2012 14:42

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX		Analytical Method: AM20GAX								
Methane	**200**	ug/l	0.10	0.015	1			2/23/2012 11:45	BW	
Ethane	**0.039**	ug/l	0.025	0.0010	1			2/23/2012 11:45	BW	
Ethene	**0.099**	ug/l	0.025	0.0060	1			2/23/2012 11:45	BW	
EDonors - MICR										
Analysis Desc: AM23G		Analytical Method: AM23G								
Lactic Acid	**0.067J**	mg/l	0.10	0.010	1			2/24/2012 01:53	KB	
Acetic Acid	**0.010J**	mg/l	0.070	0.0060	1			2/24/2012 01:53	KB	
Propionic Acid	**0.050 U**	mg/l	0.050	0.0070	1			2/24/2012 01:53	KB	
Butyric Acid	**0.050 U**	mg/l	0.050	0.0040	1			2/24/2012 01:53	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.033	1			2/24/2012 01:53	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.044	1			2/24/2012 01:53	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.012	1			2/24/2012 01:53	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			2/24/2012 01:53	KB	
Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			2/24/2012 01:53	KB	

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ANALYTICAL RESULTS

Workorder: 4257 MI PLAZA / M01046

Lab ID: **42570018** Date Received: 2/21/2012 12:00 Matrix: Water

Sample ID: **MMW-C-01** Date Collected: 2/15/2012 11:19

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX		Analytical Method: AM20GAX								
Methane	**10000**	ug/l	0.10	0.015	1			2/23/2012 11:56	BW	
Ethane	**0.22**	ug/l	0.025	0.0010	1			2/23/2012 11:56	BW	
Ethene	**5.6**	ug/l	0.025	0.0060	1			2/23/2012 11:56	BW	
EDonors - MICR										
Analysis Desc: AM23G		Analytical Method: AM23G								
Lactic Acid	**0.034J**	mg/l	0.10	0.010	1			2/24/2012 02:35	KB	
Acetic Acid	**0.0073J**	mg/l	0.070	0.0060	1			2/24/2012 02:35	KB	
Propionic Acid	**0.050 U**	mg/l	0.050	0.0070	1			2/24/2012 02:35	KB	
Butyric Acid	**0.050 U**	mg/l	0.050	0.0040	1			2/24/2012 02:35	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.033	1			2/24/2012 02:35	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.044	1			2/24/2012 02:35	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.012	1			2/24/2012 02:35	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			2/24/2012 02:35	KB	
Hexanoic Acid	**0.0089J**	mg/l	0.050	0.0060	1			2/24/2012 02:35	KB	

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ANALYTICAL RESULTS

Workorder: 4257 MI PLAZA / M01046

Lab ID: **42570019** Date Received: 2/21/2012 12:00 Matrix: Water

Sample ID: **MMW-P-11S** Date Collected: 2/15/2012 12:19

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX		Analytical Method: AM20GAX								
Methane	**1600**	ug/l	0.10	0.015	1			2/23/2012 12:06	BW	
Ethane	**0.15**	ug/l	0.025	0.0010	1			2/23/2012 12:06	BW	
Ethene	**2.8**	ug/l	0.025	0.0060	1			2/23/2012 12:06	BW	
EDonors - MICR										
Analysis Desc: AM23G		Analytical Method: AM23G								
Lactic Acid	**0.072J**	mg/l	0.10	0.010	1			2/24/2012 03:17	KB	
Acetic Acid	**0.013J**	mg/l	0.070	0.0060	1			2/24/2012 03:17	KB	
Propionic Acid	**0.050 U**	mg/l	0.050	0.0070	1			2/24/2012 03:17	KB	
Butyric Acid	**0.050 U**	mg/l	0.050	0.0040	1			2/24/2012 03:17	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.033	1			2/24/2012 03:17	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.044	1			2/24/2012 03:17	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.012	1			2/24/2012 03:17	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			2/24/2012 03:17	KB	
Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			2/24/2012 03:17	KB	

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ANALYTICAL RESULTS

Workorder: 4257 MI PLAZA / M01046

Lab ID: **42570020** Date Received: 2/21/2012 12:00 Matrix: Water

Sample ID: **MMW-P-11DR** Date Collected: 2/15/2012 12:58

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX		Analytical Method: AM20GAX								
Methane	**3800**	ug/l	0.10	0.015	1			2/23/2012 12:21	BW	
Ethane	**1.4**	ug/l	0.025	0.0010	1			2/23/2012 12:21	BW	
Ethene	**6.8**	ug/l	0.025	0.0060	1			2/23/2012 12:21	BW	
EDonors - MICR										
Analysis Desc: AM23G		Analytical Method: AM23G								
Lactic Acid	**0.040J**	mg/l	0.10	0.010	1			2/24/2012 04:00	KB	
Acetic Acid	**0.031J**	mg/l	0.070	0.0060	1			2/24/2012 04:00	KB	
Propionic Acid	**0.050 U**	mg/l	0.050	0.0070	1			2/24/2012 04:00	KB	
Butyric Acid	**0.050 U**	mg/l	0.050	0.0040	1			2/24/2012 04:00	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.033	1			2/24/2012 04:00	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.044	1			2/24/2012 04:00	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.012	1			2/24/2012 04:00	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			2/24/2012 04:00	KB	
Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			2/24/2012 04:00	KB	

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ANALYTICAL RESULTS

Workorder: 4257 MI PLAZA / M01046

Lab ID: **42570021** Date Received: 2/21/2012 12:00 Matrix: Water

Sample ID: **MMW-P-12S** Date Collected: 2/15/2012 13:33

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX		Analytical Method: AM20GAX								
Methane	**94**	ug/l	0.10	0.015	1			2/28/2012 11:37	BW	
Ethane	**0.92**	ug/l	0.025	0.0010	1			2/28/2012 11:37	BW	
Ethene	**0.65**	ug/l	0.025	0.0060	1			2/28/2012 11:37	BW	
EDonors - MICR										
Analysis Desc: AM23G		Analytical Method: AM23G								
Lactic Acid	**0.27**	mg/l	0.10	0.010	1			2/25/2012 08:54	KB	
Acetic Acid	**0.010J**	mg/l	0.070	0.0060	1			2/25/2012 08:54	KB	
Propionic Acid	**0.050 U**	mg/l	0.050	0.0070	1			2/25/2012 08:54	KB	
Butyric Acid	**0.050 U**	mg/l	0.050	0.0040	1			2/25/2012 08:54	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.033	1			2/25/2012 08:54	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.044	1			2/25/2012 08:54	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.012	1			2/25/2012 08:54	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			2/25/2012 08:54	KB	
Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			2/25/2012 08:54	KB	

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ANALYTICAL RESULTS

Workorder: 4257 MI PLAZA / M01046

Lab ID: **42570022** Date Received: 2/21/2012 12:00 Matrix: Water

Sample ID: **MMW-P-12D** Date Collected: 2/15/2012 14:05

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX		Analytical Method: AM20GAX								
Methane	**18**	ug/l	0.10	0.015	1			2/28/2012 11:46	BW	
Ethane	**1.2**	ug/l	0.025	0.0010	1			2/28/2012 11:46	BW	
Ethene	**0.70**	ug/l	0.025	0.0060	1			2/28/2012 11:46	BW	
EDonors - MICR										
Analysis Desc: AM23G		Analytical Method: AM23G								
Lactic Acid	**0.040J**	mg/l	0.10	0.010	1			2/25/2012 09:36	KB	
Acetic Acid	**0.0075J**	mg/l	0.070	0.0060	1			2/25/2012 09:36	KB	
Propionic Acid	**0.050 U**	mg/l	0.050	0.0070	1			2/25/2012 09:36	KB	
Butyric Acid	**0.050 U**	mg/l	0.050	0.0040	1			2/25/2012 09:36	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.033	1			2/25/2012 09:36	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.044	1			2/25/2012 09:36	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.012	1			2/25/2012 09:36	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			2/25/2012 09:36	KB	
Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			2/25/2012 09:36	KB	

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ANALYTICAL RESULTS

Workorder: 4257 MI PLAZA / M01046

Lab ID: **42570023** Date Received: 2/21/2012 12:00 Matrix: Water
Sample ID: **MMW-P-04** Date Collected: 2/17/2012 10:26

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM20GAX			Analytical Method: AM20GAX							
Methane	**19000**	ug/l	0.10	0.015	1			2/28/2012 11:56	BW	
Ethane	**0.16**	ug/l	0.025	0.0010	1			2/28/2012 11:56	BW	
Ethene	**6.4**	ug/l	0.025	0.0060	1			2/28/2012 11:56	BW	
EDonors - MICR										
Analysis Desc: AM23G			Analytical Method: AM23G							
Lactic Acid	**0.18**	mg/l	0.10	0.010	1			2/25/2012 10:18	KB	
Acetic Acid	**1.6**	mg/l	0.070	0.0060	1			2/25/2012 10:18	KB	
Propionic Acid	**0.33**	mg/l	0.050	0.0070	1			2/25/2012 10:18	KB	
Butyric Acid	**0.072**	mg/l	0.050	0.0040	1			2/25/2012 10:18	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.033	1			2/25/2012 10:18	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.044	1			2/25/2012 10:18	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.012	1			2/25/2012 10:18	KB	
i-Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			2/25/2012 10:18	KB	
Hexanoic Acid	**0.050 U**	mg/l	0.050	0.0060	1			2/25/2012 10:18	KB	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 4257 MI PLAZA / M01046

PARAMETER QUALIFIERS

U	Indicates the compound was analyzed for, but not detected.
J	Estimated concentration greater than the set method detection limit (MDL) and less than the set reporting limit (RDL).

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QUALITY CONTROL DATA

Workorder: 4257 MI PLAZA / M01046

QC Batch: DISG/1908 Analysis Method: AM20GAX

QC Batch Method: AM20GAX

Associated Lab Samples: 42570001, 42570002, 42570003, 42570004, 42570005, 42570006, 42570007, 42570008, 42570009, 42570010,

METHOD BLANK: 8982

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RISK				
Methane	ug/l	0.10 U	0.10	
Ethane	ug/l	0.025 U	0.025	
Ethene	ug/l	0.025 U	0.025	

LABORATORY CONTROL SAMPLE & LCSD: 8983 8984

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK										
Methane	ug/l	820	850	860	103	104	80-120	0.97	20	
Ethane	ug/l	45	45	45	100	101	80-120	1	20	
Ethene	ug/l	41	41	41	100	101	80-120	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 8987 8988 Original: 42570012

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK											
Methane	ug/l	12000	820	13000	13000	151	198	70-130	27	20	
Ethane	ug/l	2	45	42	41	89	86	70-130	3.4	20	
Ethene	ug/l	65	41	110	110	102	103	70-130	0.98	20	

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QUALITY CONTROL DATA

Workorder: 4257 MI PLAZA / M01046

QC Batch: EDON/1294 Analysis Method: AM23G

QC Batch Method: AM23G

Associated Lab Samples: 42570001, 42570002, 42570003, 42570004, 42570005, 42570006, 42570007, 42570008, 42570009, 42570010,

METHOD BLANK: 9005

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: 9006

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
EDonors						
Lactic Acid	mg/l	2	2.0	103	70-130	
Acetic Acid	mg/l	2	2.1	104	70-130	
Propionic Acid	mg/l	2	2.0	99	70-130	
Butyric Acid	mg/l	2	1.7	87	70-130	
Pyruvic Acid	mg/l	2	2.2	108	70-130	
i-Pentanoic Acid	mg/l	2	1.5	73	70-130	
Pentanoic Acid	mg/l	2	1.3	63	70-130	
i-Hexanoic Acid	mg/l	2	0.93	46	70-130	
Hexanoic Acid	mg/l	2	0.70	35	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 9007 9008 Original: 42570012

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
EDonors											
Lactic Acid	mg/l	0.034	2	2.0	2.3	100	111	70-130	10	30	
Acetic Acid	mg/l	0.013	2	2.1	2.1	103	106	70-130	2.9	30	
Propionic Acid	mg/l	0	2	2.0	2.1	103	105	70-130	1.9	30	

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QUALITY CONTROL DATA

Workorder: 4257 MI PLAZA / M01046

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 9007 9008 Original: 42570012

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Butyric Acid	mg/l	0	2	2.0	2.1	101	104	70-130	2.9	30	
Pyruvic Acid	mg/l	0	2	2.0	2.1	102	104	70-130	1.9	30	
i-Pentanoic Acid	mg/l	0	2	1.9	2.0	96	102	70-130	6.1	30	
Pentanoic Acid	mg/l	0	2	1.9	2.0	94	103	70-130	9.1	30	
i-Hexanoic Acid	mg/l	0	2	1.6	1.9	80	97	70-130	19	30	
Hexanoic Acid	mg/l	0	2	1.3	1.7	65	85	70-130	27	30	

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QUALITY CONTROL DATA

Workorder: 4257 MI PLAZA / M01046

QC Batch: EDON/1296 Analysis Method: AM23G

QC Batch Method: AM23G

Associated Lab Samples: 42570021, 42570022, 42570023

METHOD BLANK: 9036

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
EDonors				
Lactic Acid	mg/l	0.013J	0.10	
Acetic Acid	mg/l	0.070 U	0.070	
Propionic Acid	mg/l	0.050 U	0.050	
Butyric Acid	mg/l	0.023J	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: 9037

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
EDonors						
Lactic Acid	mg/l	2	2.0	102	70-130	
Acetic Acid	mg/l	2	2.0	103	70-130	
Propionic Acid	mg/l	2	1.9	95	70-130	
Butyric Acid	mg/l	2	1.7	85	70-130	
Pyruvic Acid	mg/l	2	2.1	104	70-130	
i-Pentanoic Acid	mg/l	2	1.6	78	70-130	
Pentanoic Acid	mg/l	2	1.4	71	70-130	
i-Hexanoic Acid	mg/l	2	1.2	62	70-130	
Hexanoic Acid	mg/l	2	0.98	49	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 9038 9039 Original: 42370002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
EDonors											
Lactic Acid	mg/l	0.052	2	2.0	2.0	97	97	70-130	0	30	
Acetic Acid	mg/l	0.012	2	2.1	2.1	104	104	70-130	0	30	
Propionic Acid	mg/l	0.043	2	2.1	2.1	103	102	70-130	0.98	30	

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QUALITY CONTROL DATA

Workorder: 4257 MI PLAZA / M01046

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 9038 9039 Original: 42370002

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Butyric Acid	mg/l	0	2	2.0	2.0	98	102	70-130	4	30	
Pyruvic Acid	mg/l	0	2	1.9	2.0	97	99	70-130	2	30	
i-Pentanoic Acid	mg/l	0	2	1.8	1.9	92	97	70-130	5.3	30	
Pentanoic Acid	mg/l	0	2	1.8	2.0	91	98	70-130	7.4	30	
i-Hexanoic Acid	mg/l	0	2	1.6	1.8	82	88	70-130	7.1	30	
Hexanoic Acid	mg/l	0	2	1.4	1.6	71	79	70-130	11	30	

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QUALITY CONTROL DATA

Workorder: 4257 MI PLAZA / M01046

QC Batch: DISG/1916 Analysis Method: AM20GAX

QC Batch Method: AM20GAX

Associated Lab Samples: 42570021, 42570022, 42570023

METHOD BLANK: 9048

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RISK				
Methane	ug/l	0.10 U	0.10	
Ethane	ug/l	0.025 U	0.025	
Ethene	ug/l	0.025 U	0.025	

LABORATORY CONTROL SAMPLE & LCSD: 9049 9050

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK										
Methane	ug/l	820	880	880	107	107	80-120	0	20	
Ethane	ug/l	45	45	46	100	102	80-120	2	20	
Ethene	ug/l	41	41	42	101	103	80-120	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 9051 9052 Original: 42190004

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK											
Methane	ug/l	7900	820	7900	8700	5.7	102	70-130	179	20	
Ethane	ug/l	0.16	45	40	40	90	89	70-130	1.1	20	
Ethene	ug/l	15	41	51	55	87	97	70-130	11	20	

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QUALITY CONTROL DATA

Workorder: 4257 MI PLAZA / M01046

QC Batch: EDON/1299 Analysis Method: AM23G

QC Batch Method: AM23G

Associated Lab Samples: 42570002, 42570005

METHOD BLANK: 9066

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
EDonors				
Lactic Acid	mg/l	0.015J	0.10	
Acetic Acid	mg/l	0.070 U	0.070	
Propionic Acid	mg/l	0.050 U	0.050	

LABORATORY CONTROL SAMPLE: 9067

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
EDonors						
Lactic Acid	mg/l	2	2.0	101	70-130	
Acetic Acid	mg/l	2	2.0	101	70-130	
Propionic Acid	mg/l	2	1.9	95	70-130	

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Microseeps, Inc
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 4257 MI PLAZA / M01046

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
42570001	MMW-P-02			AM20GAX	DISG/1908
42570002	MMW-P-03D			AM20GAX	DISG/1908
42570003	MMW-P-03S			AM20GAX	DISG/1908
42570004	DUP-2			AM20GAX	DISG/1908
42570005	MMW-P-05			AM20GAX	DISG/1908
42570006	MMW-P-10S			AM20GAX	DISG/1908
42570007	MMW-P-10D			AM20GAX	DISG/1908
42570008	MMW-P-08			AM20GAX	DISG/1908
42570009	MMW-P-07			AM20GAX	DISG/1908
42570010	MMW-P-01			AM20GAX	DISG/1908
42570011	MMW-P-06			AM20GAX	DISG/1908
42570012	MMW-9S			AM20GAX	DISG/1908
42570013	MS			AM20GAX	DISG/1908
42570014	MSD			AM20GAX	DISG/1908
42570015	MMW-8S			AM20GAX	DISG/1908
42570016	MMW-10S			AM20GAX	DISG/1908
42570017	MMW-1S			AM20GAX	DISG/1908
42570018	MMW-C-01			AM20GAX	DISG/1908
42570019	MMW-P-11S			AM20GAX	DISG/1908
42570020	MMW-P-11DR			AM20GAX	DISG/1908
42570001	MMW-P-02			AM23G	EDON/1294
42570002	MMW-P-03D			AM23G	EDON/1294
42570003	MMW-P-03S			AM23G	EDON/1294
42570004	DUP-2			AM23G	EDON/1294
42570005	MMW-P-05			AM23G	EDON/1294
42570006	MMW-P-10S			AM23G	EDON/1294
42570007	MMW-P-10D			AM23G	EDON/1294
42570008	MMW-P-08			AM23G	EDON/1294
42570009	MMW-P-07			AM23G	EDON/1294
42570010	MMW-P-01			AM23G	EDON/1294
42570011	MMW-P-06			AM23G	EDON/1294
42570012	MMW-9S			AM23G	EDON/1294
42570013	MS			AM23G	EDON/1294

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 4257 MI PLAZA / M01046

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
42570014	MSD			AM23G	EDON/1294
42570015	MMW-8S			AM23G	EDON/1294
42570016	MMW-10S			AM23G	EDON/1294
42570017	MMW-1S			AM23G	EDON/1294
42570018	MMW-C-01			AM23G	EDON/1294
42570019	MMW-P-11S			AM23G	EDON/1294
42570020	MMW-P-11DR			AM23G	EDON/1294
42570021	MMW-P-12S			AM23G	EDON/1296
42570022	MMW-P-12D			AM23G	EDON/1296
42570023	MMW-P-04			AM23G	EDON/1296
42570021	MMW-P-12S			AM20GAX	DISG/1916
42570022	MMW-P-12D			AM20GAX	DISG/1916
42570023	MMW-P-04			AM20GAX	DISG/1916
42570002	MMW-P-03D			AM23G	EDON/1299
42570005	MMW-P-05			AM23G	EDON/1299

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Microseeps Lab. Proj. # 4257

CHAIN - OF - CUSTODY RECORD

Microseeps COC cont. #

Phone: (412) 826-5245 | Microseeps, Inc. - 220 William Pitt Way - Pittsburgh, PA 15238 | Fax No. : (412) 826-3433

Company : Mundell & Assoc.
Co. Address : 110 S. Downey Ave Indpls IN 46219
Phone # : 317-630-9060 Fax # :
Proj. Manager : Sarah Webb
Proj. Name/Number : MI Plaza / M2046
Sampler's signature :

Cooler Temp. 3.8°C

Results to : Sarah Webb

Invoice to : Marla Tebbe

	Sample ID	Sample Description	Sample Type Water	Vapor	Solid	Date	Time	# bottles	MEE AMZ0GAY	VFA Method AMZ3G								Remarks :
1	MMW-P-02	Water	✓			2/13/12	10:16A	4	X	X								
2	MMW-P-03D					2/13/12	10:49A	4	X	X								
3	MMW-P-03S					2/13/12	11:21	4	X	X								
4	DUP-2					2-13-12		4	X	X								
5	MMW-P-05					2/13/12	12:15P	4	X	X								
6	MMW-P-10S					2/13/12	12:52p	4	X	X								
7	MMW-P-10D					2/13/12	1:23p	4	X	X								
8	MMW-P-08					2/13/12	1:54p	4	X	X								
9	MMW-P-07					2/13/12	2:26p	4	X	X								
10	MMW-P-01					2/13/12	2:57p	4	X	X								
11	MMW-P-06					2/13/12	3:27p	4	X	X								
12	MMW-9S					2/13/12	3:57p	4	X	X								

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
[signature]	Mundell	2/20/12	11:30A	[signature]	MS	2/21/12	1200
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :

WHITE COPY : Accompany Samples YELLOW COPY : Laboratory File PINK COPY : Submitter

Microseeps Lab. Proj. # 4257

CHAIN - OF - CUSTODY RECORD

Microseeps COC cont. #

Phone: (412) 826-5245 | Microseeps, Inc. - 220 William Pitt Way - Pittsburgh, PA 15238 | Fax No. : (412) 826-3433

Company : Mundell & Assoc

Co. Address : 1105. Downey Ave, Indpls, IN 46219

Phone # : 317-630-8060 Fax # :

Proj. Manager : Sarah webb

Proj. Name/Number : MI Plaza / M01046

Sampler's signature :

Cooler Temp. 2°C

Results to : Sarah webb

Invoice to : Merle Tebbe

Parameters Requested: MTBE AMZ0 GAX; VFA low level MMZ39

	Sample ID	Sample Description	Sample Type: Water	Vapor	Solid	Date	Time	# bottles	MTBE AMZ0 GAX	VFA low level MMZ39	Remarks :
13	MS	water	✓			2/13/12	3:57	4	X	X	
14	MSD					2/13/12	3:57	4	X	X	
15	MMW-8S					2/14/12	1:34p	4	X	X	
16	MMW-10S					2/14/12	2:08p	4	X	X	
17	MMW-1S					2/14/12	2:42p	4	X	X	
18	MMW-C-01					2/15/12	11:19A	4	X	X	
19	MMW-P-11S					2/15/12	12:19p	4	X	X	
20	MMW-P-11DR					2/15/12	12:58p	4	X	X	
21	MMW-P-12S					2/15/12	1:33p	4	X	X	
22	MMW-P-12D					2/15/12	2:05p	4	X	X	
23	MMW-P-04					2/17/12	10:26A	4	X	X	

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
	Mundell	2/22/12	11:30A	HHaulong	MS	2/21/12	12:30
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :

WHITE COPY : Accompany Samples YELLOW COPY : Laboratory File PINK COPY : Submitter

NON-CONFORMANCE FORM

Microseeps Project Number: 4257

Date: 2-21-12 Time of Receipt: 12:00 Receiver: H Lan Young

Client: Mundell.

REASON FOR NON-CONFORMANCE:

No time of collection & date & collection of DUP-2. Date of 2/13/12 taken from vials.

ACTION TAKEN:

Client name: _____ Date: _____ Time: _____

OK to proceed

Customer Service Initials: HH Date: 2/21

Cooler Receipt Form

Client Name: Mundell **Project:** MI Plaza **Lab Work Order:** 4257

A. Shipping/Container Information (circle appropriate response)

Courier: FedEx UPS USPS Client Other:_____ **Air bill Present:** Yes No

Tracking Number: 7932 4782 6090

Custody Seal on Cooler/Box Present: Yes No **Seals Intact:** Yes No

Cooler/Box Packing Material: Bubble Wrap Absorbent Foam Other:_____

Type of Ice: Wet Blue None **Ice Intact:** Yes Melted

Cooler Temperature: 3.8°C **Radiation Screened:** Yes No **Chain of Custody Present:** Yes No

Comments:_____

B. Laboratory Assignment/Log-in (check appropriate response)

	YES	NO	N/A	Comment Reference non-Conformance
Chain of Custody properly filled out	✓			
Chain of Custody relinquished	✓			
Sampler Name & Signature on COC	✓			
Containers intact	✓			
Were samples in separate bags	✓			
Sample container labels match COC Sample name/date and time collected	✓			
Sufficient volume provided	✓			
Microseeps containers used	✓			
Are containers properly preserved for the requested testing? (as labeled)	✓			
If an unknown preservation state, were containers checked? Exception: VOA's coliform			✓	
Was volume for dissolved testing field filtered, as noted on the COC? Was volume received in a preserved container?			✓	

Comments:_____

Cooler contents examined/received by : HLY **Date:** 2-21-12

Project Manager Review : AH **Date:** 2.21.12

Cooler Receipt Form

Client Name: Mundell **Project:** MI Plaza **Lab Work Order:** 4257

A. Shipping/Container Information (circle appropriate response)

Courier: FedEx UPS USPS Client Other:_____ **Air bill Present:** Yes No

Tracking Number: 7932 4782 6090

Custody Seal on Cooler/Box Present: Yes No **Seals Intact:** Yes No

Cooler/Box Packing Material: Bubble Wrap Absorbent Foam Other:_____

Type of Ice: Wet Blue None **Ice Intact:** Yes Melted

Cooler Temperature: 2°C **Radiation Screened:** Yes No **Chain of Custody Present:** Yes No

Comments:_____

B. Laboratory Assignment/Log-in (check appropriate response)

	YES	NO	N/A	Comment Reference non-Conformance
Chain of Custody properly filled out	✓			
Chain of Custody relinquished	✓			
Sampler Name & Signature on COC	✓			
Containers intact	✓			
Were samples in separate bags	✓			
Sample container labels match COC Sample name/date and time collected	✓			
Sufficient volume provided	✓			
Microseeps containers used	✓			
Are containers properly preserved for the requested testing? (as labeled)	✓			
If an unknown preservation state, were containers checked? Exception: VOA's coliform			✓	
Was volume for dissolved testing field filtered, as noted on the COC? Was volume received in a preserved container?			✓	

Comments:_____

Cooler contents examined/received by : HCY **Date:** 2-21-12

Project Manager Review : NN **Date:** 2-21-12

Microseeps, Inc
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

February 10, 2012

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

RE: **MI PLAZA / M01046**

Microseeps Workorder: 3958

Dear Sarah Webb:

Enclosed are the analytical results for sample(s) received by the laboratory on Tuesday, January 24, 2012. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Heather Hauser 02/10/2012
hhauser@microseeps.com

Enclosures

Total Number of Pages 15

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LABORATORY ACCREDITATIONS & CERTIFICATIONS

Accreditor:	Pennsylvania Department of Environmental Protection, Bureau of Laboratories
Accreditation ID:	02-00538
Scope:	NELAP Non-Potable Water and Solid & Hazardous Waste
Accreditor:	NELAP: State of Florida, Department of Health, Bureau of Laboratories
Accreditation ID:	E87832
Scope:	Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA)
Accreditor:	South Carolina Department of Health and Environmental Control, Office of Environmental Laboratory Certification
Accreditation ID:	89009003
Scope:	Clean Water Act (CWA); Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: State of Louisiana, Department of Environmental Quality
Accreditation ID:	04104
Scope:	Solid and Chemical Materials; Non-Potable Water
Accreditor:	NELAP: New Jersey, Department of Environmental Protection
Accreditation ID:	PA026
Scope:	Non-Potable Water; Solid and Chemical Materials
Accreditor:	NELAP: New York, Department of Health Wadsworth Center
Accreditation ID:	11815
Scope:	Non-Potable Water; Solid and Hazardous Waste
Accreditor:	State of Connecticut, Department of Public Health, Division of Environmental Health
Accreditation ID:	PH-0263
Scope:	Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: Texas, Commission on Environmental Quality
Accreditation ID:	T104704453-09-TX
Scope:	Non-Potable Water
Accreditor:	State of New Hampshire
Accreditation ID:	299409
Scope:	Non-potable water
Accreditor:	State of Georgia
Accreditation ID:	Chapter 391-3-26
Scope:	As per the Georgia EPD Rules and Regulations for Commercial Laboratories, Microseeps is accredited by the Pennsylvania Department of Environmental Protection Bureau of Laboratories under the National Environmental Laboratory Approval Program (NELAC).

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SAMPLE SUMMARY

Workorder: 3958 MI PLAZA / M01046

Lab ID	Sample ID	Matrix	Date Collected	Date Received
39580001	B-1	Vapor	1/20/2012 11:26	1/24/2012 13:30
39580002	B-2	Vapor	1/20/2012 11:38	1/24/2012 13:30
39580003	B-3	Vapor	1/20/2012 11:47	1/24/2012 13:30
39580004	B-4	Vapor	1/20/2012 11:59	1/24/2012 13:30
39580005	B-5	Vapor	1/20/2012 12:35	1/24/2012 13:30
39580006	B-6	Vapor	1/20/2012 11:17	1/24/2012 13:30
39580007	B-7	Vapor	1/20/2012 11:10	1/24/2012 13:30

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ANALYTICAL RESULTS

Workorder: 3958 MI PLAZA / M01046

Lab ID: **39580001** Date Received: 1/24/2012 13:30 Matrix: Vapor

Sample ID: **B-1** Date Collected: 1/20/2012 11:26

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual	RegLmt
RISK - MICR											
Analysis Desc: AM4.02 Vapors			Analytical Method: AM4.02 Vapors								
Vinyl Chloride	**0.20**	J ppmv	1.0	0.095	1			1/31/2012 01:48	SL		
1,1-Dichloroethene	**0.010**	U ppmv	0.010	0.0010	1			1/31/2012 01:48	SL		
Methylene Chloride	**2.0**	U ppmv	2.0	0.19	1			1/31/2012 01:48	SL		
trans-1,2-Dichloroethene	**0.010**	U ppmv	0.010	0.0080	1			1/31/2012 01:48	SL		
1,1-Dichloroethane	**0.020**	U ppmv	0.020	0.0040	1			1/31/2012 01:48	SL		
cis-1,2-Dichloroethene	**0.020**	U ppmv	0.020	0.0070	1			1/31/2012 01:48	SL		
Chloroform	**0.0016**	J ppmv	0.0050	0.0010	1			1/31/2012 01:48	SL		
1,1,1-Trichloroethane	**0.0050**	U ppmv	0.0050	0.0010	1			1/31/2012 01:48	SL		
Carbon Tetrachloride	**0.0050**	U ppmv	0.0050	0.0010	1			1/31/2012 01:48	SL		
Trichloroethene	**0.010**	U ppmv	0.010	0.0010	1			1/31/2012 01:48	SL		
Tetrachloroethene	**0.10**	ppmv	0.010	0.0010	1			1/31/2012 01:48	SL		

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ANALYTICAL RESULTS

Workorder: 3958 MI PLAZA / M01046

Lab ID: **39580002** Date Received: 1/24/2012 13:30 Matrix: Vapor

Sample ID: **B-2** Date Collected: 1/20/2012 11:38

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual	RegLmt
RISK - MICR											
Analysis Desc: AM4.02 Vapors			Analytical Method: AM4.02 Vapors								
Vinyl Chloride	**0.11**	J ppmv	1.0	0.095	1			1/31/2012 02:56	SL		
1,1-Dichloroethene	**0.010**	U ppmv	0.010	0.0010	1			1/31/2012 02:56	SL		
Methylene Chloride	**2.0**	U ppmv	2.0	0.19	1			1/31/2012 02:56	SL		
trans-1,2-Dichloroethene	**0.010**	U ppmv	0.010	0.0080	1			1/31/2012 02:56	SL		
1,1-Dichloroethane	**0.020**	U ppmv	0.020	0.0040	1			1/31/2012 02:56	SL		
cis-1,2-Dichloroethene	**0.020**	U ppmv	0.020	0.0070	1			1/31/2012 02:56	SL		
Chloroform	**0.0050**	U ppmv	0.0050	0.0010	1			1/31/2012 02:56	SL		
1,1,1-Trichloroethane	**0.0050**	U ppmv	0.0050	0.0010	1			1/31/2012 02:56	SL		
Carbon Tetrachloride	**0.0050**	U ppmv	0.0050	0.0010	1			1/31/2012 02:56	SL		
Trichloroethene	**0.010**	U ppmv	0.010	0.0010	1			1/31/2012 02:56	SL		
Tetrachloroethene	**0.081**	ppmv	0.010	0.0010	1			1/31/2012 02:56	SL		

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ANALYTICAL RESULTS

Workorder: 3958 MI PLAZA / M01046

Lab ID: **39580003** Date Received: 1/24/2012 13:30 Matrix: Vapor
Sample ID: **B-3** Date Collected: 1/20/2012 11:47

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual	RegLmt
RISK - MICR											
Analysis Desc: AM4.02 Vapors			Analytical Method: AM4.02 Vapors								
Vinyl Chloride	**1.0**	**U** ppmv	1.0	0.095	1			1/31/2012 04:04	SL		
1,1-Dichloroethene	**0.010**	**U** ppmv	0.010	0.0010	1			1/31/2012 04:04	SL		
Methylene Chloride	**2.0**	**U** ppmv	2.0	0.19	1			1/31/2012 04:04	SL		
trans-1,2-Dichloroethene	**0.010**	**U** ppmv	0.010	0.0080	1			1/31/2012 04:04	SL		
1,1-Dichloroethane	**0.020**	**U** ppmv	0.020	0.0040	1			1/31/2012 04:04	SL		
cis-1,2-Dichloroethene	**0.020**	**U** ppmv	0.020	0.0070	1			1/31/2012 04:04	SL		
Chloroform	**0.0050**	**U** ppmv	0.0050	0.0010	1			1/31/2012 04:04	SL		
1,1,1-Trichloroethane	**0.0050**	**U** ppmv	0.0050	0.0010	1			1/31/2012 04:04	SL		
Carbon Tetrachloride	**0.0050**	**U** ppmv	0.0050	0.0010	1			1/31/2012 04:04	SL		
Trichloroethene	**0.0011**	**J** ppmv	0.010	0.0010	1			1/31/2012 04:04	SL		
Tetrachloroethene	**0.066**	ppmv	0.010	0.0010	1			1/31/2012 04:04	SL		

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ANALYTICAL RESULTS

Workorder: 3958 MI PLAZA / M01046

Lab ID: **39580004** Date Received: 1/24/2012 13:30 Matrix: Vapor

Sample ID: **B-4** Date Collected: 1/20/2012 11:59

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual	RegLmt
RISK - MICR											
Analysis Desc: AM4.02 Vapors			Analytical Method: AM4.02 Vapors								
Vinyl Chloride	**1.0**	U ppmv	1.0	0.095	1			1/31/2012 05:12	SL		
1,1-Dichloroethene	**0.010**	U ppmv	0.010	0.0010	1			1/31/2012 05:12	SL		
Methylene Chloride	**2.0**	U ppmv	2.0	0.19	1			1/31/2012 05:12	SL		
trans-1,2-Dichloroethene	**0.010**	U ppmv	0.010	0.0080	1			1/31/2012 05:12	SL		
1,1-Dichloroethane	**0.020**	U ppmv	0.020	0.0040	1			1/31/2012 05:12	SL		
cis-1,2-Dichloroethene	**0.020**	U ppmv	0.020	0.0070	1			1/31/2012 05:12	SL		
Chloroform	**0.0050**	U ppmv	0.0050	0.0010	1			1/31/2012 05:12	SL		
1,1,1-Trichloroethane	**0.0050**	U ppmv	0.0050	0.0010	1			1/31/2012 05:12	SL		
Carbon Tetrachloride	**0.0050**	U ppmv	0.0050	0.0010	1			1/31/2012 05:12	SL		
Trichloroethene	**0.010**	U ppmv	0.010	0.0010	1			1/31/2012 05:12	SL		
Tetrachloroethene	**0.0081**	J ppmv	0.010	0.0010	1			1/31/2012 05:12	SL		

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ANALYTICAL RESULTS

Workorder: 3958 MI PLAZA / M01046

Lab ID: **39580005** Date Received: 1/24/2012 13:30 Matrix: Vapor

Sample ID: **B-5** Date Collected: 1/20/2012 12:35

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual	RegLmt
RISK - MICR											
Analysis Desc: AM4.02 Vapors			Analytical Method: AM4.02 Vapors								
Vinyl Chloride	**1.0**	U ppmv	1.0	0.095	1			1/31/2012 06:20	SL		
1,1-Dichloroethene	**0.010**	U ppmv	0.010	0.0010	1			1/31/2012 06:20	SL		
Methylene Chloride	**2.0**	U ppmv	2.0	0.19	1			1/31/2012 06:20	SL		
trans-1,2-Dichloroethene	**0.010**	U ppmv	0.010	0.0080	1			1/31/2012 06:20	SL		
1,1-Dichloroethane	**0.020**	U ppmv	0.020	0.0040	1			1/31/2012 06:20	SL		
cis-1,2-Dichloroethene	**0.020**	U ppmv	0.020	0.0070	1			1/31/2012 06:20	SL		
Chloroform	**0.0050**	U ppmv	0.0050	0.0010	1			1/31/2012 06:20	SL		
1,1,1-Trichloroethane	**0.0050**	U ppmv	0.0050	0.0010	1			1/31/2012 06:20	SL		
Carbon Tetrachloride	**0.0050**	U ppmv	0.0050	0.0010	1			1/31/2012 06:20	SL		
Trichloroethene	**0.0012**	J ppmv	0.010	0.0010	1			1/31/2012 06:20	SL		
Tetrachloroethene	**0.022**	ppmv	0.010	0.0010	1			1/31/2012 06:20	SL		

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nelac

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Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

ANALYTICAL RESULTS

Workorder: 3958 MI PLAZA / M01046

Lab ID: **39580006** Date Received: 1/24/2012 13:30 Matrix: Vapor

Sample ID: **B-6** Date Collected: 1/20/2012 11:17

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual	RegLmt
RISK - MICR											
Analysis Desc: AM4.02 Vapors			Analytical Method: AM4.02 Vapors								
Vinyl Chloride	**1.0**	U ppmv	1.0	0.095	1			1/31/2012 07:28	SL		
1,1-Dichloroethene	**0.010**	U ppmv	0.010	0.0010	1			1/31/2012 07:28	SL		
Methylene Chloride	**2.0**	U ppmv	2.0	0.19	1			1/31/2012 07:28	SL		
trans-1,2-Dichloroethene	**0.010**	U ppmv	0.010	0.0080	1			1/31/2012 07:28	SL		
1,1-Dichloroethane	**0.020**	U ppmv	0.020	0.0040	1			1/31/2012 07:28	SL		
cis-1,2-Dichloroethene	**0.020**	U ppmv	0.020	0.0070	1			1/31/2012 07:28	SL		
Chloroform	**0.0050**	U ppmv	0.0050	0.0010	1			1/31/2012 07:28	SL		
1,1,1-Trichloroethane	**0.0050**	U ppmv	0.0050	0.0010	1			1/31/2012 07:28	SL		
Carbon Tetrachloride	**0.0050**	U ppmv	0.0050	0.0010	1			1/31/2012 07:28	SL		
Trichloroethene	**0.010**	U ppmv	0.010	0.0010	1			1/31/2012 07:28	SL		
Tetrachloroethene	**0.018**	ppmv	0.010	0.0010	1			1/31/2012 07:28	SL		

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ANALYTICAL RESULTS

Workorder: 3958 MI PLAZA / M01046

Lab ID: **39580007** Date Received: 1/24/2012 13:30 Matrix: Vapor

Sample ID: **B-7** Date Collected: 1/20/2012 11:10

Parameters	Results	Units	RDL	MDL	DF	Prepared	By	Analyzed	By	Qual	RegLmt
RISK - MICR											
Analysis Desc: AM4.02 Vapors			Analytical Method: AM4.02 Vapors								
Vinyl Chloride	**1.0**	U ppmv	1.0	0.095	1			1/31/2012 08:35	SL		
1,1-Dichloroethene	**0.010**	U ppmv	0.010	0.0010	1			1/31/2012 08:35	SL		
Methylene Chloride	**2.0**	U ppmv	2.0	0.19	1			1/31/2012 08:35	SL		
trans-1,2-Dichloroethene	**0.010**	U ppmv	0.010	0.0080	1			1/31/2012 08:35	SL		
1,1-Dichloroethane	**0.020**	U ppmv	0.020	0.0040	1			1/31/2012 08:35	SL		
cis-1,2-Dichloroethene	**0.020**	U ppmv	0.020	0.0070	1			1/31/2012 08:35	SL		
Chloroform	**0.0050**	U ppmv	0.0050	0.0010	1			1/31/2012 08:35	SL		
1,1,1-Trichloroethane	**0.0050**	U ppmv	0.0050	0.0010	1			1/31/2012 08:35	SL		
Carbon Tetrachloride	**0.0050**	U ppmv	0.0050	0.0010	1			1/31/2012 08:35	SL		
Trichloroethene	**0.010**	U ppmv	0.010	0.0010	1			1/31/2012 08:35	SL		
Tetrachloroethene	**0.0029**	J ppmv	0.010	0.0010	1			1/31/2012 08:35	SL		

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 3958 MI PLAZA / M01046

PARAMETER QUALIFIERS

U	Indicates the compound was analyzed for, but not detected.
J	Estimated concentration greater than the set method detection limit (MDL) and less than the set reporting limit (RDL).

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QUALITY CONTROL DATA

Workorder: 3958 MI PLAZA / M01046

QC Batch: VAP/1171 Analysis Method: AM4.02 Vapors

QC Batch Method: AM4.02 Vapors

Associated Lab Samples: 39580001, 39580002, 39580003, 39580004, 39580005, 39580006, 39580007

METHOD BLANK: 8450

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RISK				
1,1-Dichloroethene	ppmv	0.010 U	0.010	
trans-1,2-Dichloroethene	ppmv	0.010 U	0.010	
1,1-Dichloroethane	ppmv	0.020 U	0.020	
cis-1,2-Dichloroethene	ppmv	0.020 U	0.020	
Chloroform	ppmv	0.0050 U	0.0050	
1,1,1-Trichloroethane	ppmv	0.0050 U	0.0050	
Carbon Tetrachloride	ppmv	0.0050 U	0.0050	
Trichloroethene	ppmv	0.010 U	0.010	
Tetrachloroethene	ppmv	0.010 U	0.010	

METHOD BLANK: 8451

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RISK				
Vinyl Chloride	ppmv	1.0 U	1.0	
Methylene Chloride	ppmv	2.0 U	2.0	

LABORATORY CONTROL SAMPLE & LCSD: 8452 8454

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK										
1,1-Dichloroethene	ppmv	0.65	0.56	0.55	86	85	75-125	1.2	20	
trans-1,2-Dichloroethene	ppmv	0.65	0.59	0.59	91	91	75-125	0	20	
1,1-Dichloroethane	ppmv	0.64	0.61	0.53	95	83	75-125	13	20	
cis-1,2-Dichloroethene	ppmv		0.020 U	0.020 U						
Chloroform	ppmv	0.53	0.51	0.50	96	95	75-125	1	20	
1,1,1-Trichloroethane	ppmv	0.47	0.46	0.46	98	97	75-125	1	20	
Carbon Tetrachloride	ppmv	0.41	0.40	0.40	98	97	75-125	1	20	
Trichloroethene	ppmv	0.48	0.46	0.45	95	93	75-125	2.1	20	
Tetrachloroethene	ppmv		0.010 U	0.010 U						

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QUALITY CONTROL DATA

Workorder: 3958 MI PLAZA / M01046

LABORATORY CONTROL SAMPLE & LCSD: 8453 8455

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK										
Vinyl Chloride	ppmv		1.0 U	1.0 U						
Methylene Chloride	ppmv		0.68J	0.68J						

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 3958 MI PLAZA / M01046

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
39580001	B-1			AM4.02 Vapors	VAP/1171
39580002	B-2			AM4.02 Vapors	VAP/1171
39580003	B-3			AM4.02 Vapors	VAP/1171
39580004	B-4			AM4.02 Vapors	VAP/1171
39580005	B-5			AM4.02 Vapors	VAP/1171
39580006	B-6			AM4.02 Vapors	VAP/1171
39580007	B-7			AM4.02 Vapors	VAP/1171

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Microseeps Lab. Proj. # 3958

CHAIN - OF - CUSTODY RECORD

Microseeps COC cont. #

Phone: (412) 826-5245 | Microseeps, Inc. - 220 William Pitt Way - Pittsburgh, PA 15238 | Fax No. : (412) 826-3433

Company : Mundell & Associates

Co. Address : 110 S. Downey Ave Indpls, IN

Phone # : 317-630-9060 Fax # : 317-630-9065

Proj. Manager : Sarah Webb

Proj. Name/Number : MI Plaza / M010416

Sampler's signature :

Cooler Temp.

Results to : Sarah Webb @ Mundell

Invoice to : Merle Tebbe @ Mundell

Parameters Requested: Chlorinated Hydrocarbons

Sample ID	Sample Description	Sample Type: Water	Vapor	Solid	Date	Time	# bottles	Chlorinated Hydrocarbons	Remarks :
B-1	Vapor / Air		✓		1/20/12	11:26A	2	X	
B-2	Vapor / Air		✓		↓	11:38A	2	↓	
B-3	Vapor / Air		✓			11:47A	2		
B-4	Vapor / Air		✓			11:59A	2		
B-5	Vapor / Air		✓			12:35P	2		
B-6	Vapor / Air		✓			11:17A	2		
B-7	Vapor / Air		✓		↓	11:10A	2	✓	

Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
A. D	Mundell	1/20/12	5:30P	H Lau Cheng	Microseeps	1-24-12	1330
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :
Relinquished by :	Company :	Date :	Time :	Received by :	Company :	Date :	Time :

WHITE COPY : Accompany Samples YELLOW COPY : Laboratory File PINK COPY : Submitter

APPENDIX B

Air Mitigation Systems: Pounds of Contaminants Removed

APPENDIX B

Air Mitigation System - Historical Air Analytical Results

Michigan Plaza

Indianapolis, Indiana

MUNDELL Project No.: M01046

Sample Date	Perchloroethylene (PCE)											
	B-1	B-2	B-3	B-4	B-1	B-2	B-3	B-4	B-1	B-2	B-3	B-4
	(ppmv)				(ppm)				(μg/m^3)			
9/21/2006	0.6300	0.7900	0.6700	0.2800	0.0043	0.0054	0.0046	0.0019	4281.48	5368.84	4553.32	1902.88
10/6/2006	0.8800	0.6700	0.9700	0.3100	0.0060	0.0046	0.0066	0.0021	5980.48	4553.32	6592.12	2106.76
10/13/2006	0.6800	0.3600	0.5200	0.2100	0.0046	0.0024	0.0035	0.0014	4621.28	2446.56	3533.92	1427.16
10/20/2006	0.8700	0.5500	0.8900	0.2200	0.0059	0.0037	0.0060	0.0015	5912.52	3737.80	6048.44	1495.12
11/17/2006	0.8100	0.4700	0.7800	0.1500	0.0055	0.0032	0.0053	0.0010	5504.76	3194.12	5300.88	1019.40
12/27/2006	0.7400	0.4700	0.7500	0.1100	0.0050	0.0032	0.0051	0.0007	5029.04	3194.12	5097.00	747.56
3/30/2007	0.5100	0.1800	0.5700	0.0310	0.0035	0.0012	0.0039	0.0002	3465.96	1223.28	3873.72	210.68
6/15/2007	*0.0050*	0.3100	0.2100	0.4600	0.0000	0.0021	0.0014	0.0031	33.98	2106.76	1427.16	3126.16
10/16/2007	0.3900	0.2400	0.2800	0.0670	0.0027	0.0016	0.0019	0.0005	2650.44	1631.04	1902.88	455.33
12/14/2007	0.5800	0.3400	0.5200	0.1400	0.0039	0.0023	0.0035	0.0010	3941.68	2310.64	3533.92	951.44
3/27/2008	0.5500	NS	0.5600	0.0740	0.0037	NS	0.0038	0.0005	3737.80	NS	3805.76	502.90
4/1/2008	NS	0.3600	NS	NS	NS	0.0024	NS	NS	NS	2446.56	NS	NS
6/2/2008	0.7200	0.5600	0.4900	0.1000	0.0049	0.0038	0.0033	0.0007	4893.12	3805.76	3330.04	679.60
9/12/2008	0.4800	0.4700	0.5300	0.1300	0.0033	0.0032	0.0036	0.0009	3262.08	3194.12	3601.88	883.48
11/26/2008	0.4600	NS	0.3600	0.1100	0.0031	NS	0.0024	0.0007	3126.16	NS	2446.56	747.56
3/24/2009	0.4500	NS	0.5500	*0.0050*	0.0031	NS	0.0037	*0.00003*	3058.20	NS	3737.80	33.98
6/15/2009	0.4300	NS	0.4200	0.0200	0.0029	NS	0.0029	0.0001	2922.28	NS	2854.32	135.92
8/21/2009	0.3600	0.1600	0.4700	0.0140	0.0024	0.0011	0.0032	0.0001	2446.56	1087.36	3194.12	95.14
11/5/2009	0.3300	0.1400	0.4100	*0.0050*	0.0022	0.0010	0.0028	*0.00003*	2242.68	951.44	2786.36	33.98
2/5/2010	0.1600	0.0370	0.1400	0.0120	0.0011	0.0003	0.0010	0.0001	1087.36	251.45	951.44	81.55
4/23/2010	0.1300	NS	NS	0.0170	0.0009	NS	NS	0.0001	883.48	NS	NS	115.53
5/6/2010	NS	0.1500	0.2500	NS	NS	0.0010	0.0017	NS	NS	1019.40	1699.00	NS
7/23/2010	0.1500	0.1900	0.1200	*0.0050*	0.0010	0.0013	0.0008	*0.00003*	1019.40	1291.24	815.52	*33.98*
10/13/2010	NS	NS	NS	*0.0050*	NS	NS	NS	*0.00003*	NS	NS	NS	*33.98*
10/15/2010	0.0940	0.0650	*0.0050*	NS	0.0006	0.0004	*0.0000*	NS	638.82	441.74	*33.98*	NS
1/21/2011	0.1400	0.0270	NS	*0.0050*	0.0010	0.0002	NS	*0.00003*	951.44	183.49	NS	*33.98*
4/8/2011	NS	NS	0.2100	NS	NS	NS	0.0014	NS	NS	NS	1427.16	NS
5/11/2011	0.2200	0.2700	0.2100	0.0230	0.0015	0.0018	0.0014	0.0002	1495.12	1834.92	1427.16	156.31
7/29/2011	0.0660	0.1700	0.1100	*0.0050*	0.0004	0.0012	0.0007	*0.00003*	448.54	1155.32	747.56	*33.98*
10/25/2011	0.1100	0.1200	0.0530	*0.0050*	0.0007	0.0008	0.0004	*0.00003*	747.56	815.52	360.19	*33.98*
1/20/2012	0.1000	0.0810	0.0660	*0.0081*	0.0007	0.0006	0.0004	*0.00006*	679.60	550.48	448.54	*55.05*

NS = Not sampled

Italic = Reported concentrations are estimated values (J-flagged values) or below laboratory detection limits. Concentrations of PCE, TCE, and cis-1,2-DCE are assumed to be one-half the laboratory practical quantitation limit (PQL). Concentrations of vinyl chloride are assumed to be 0.015 ppmv, representing the mean detected concentration below laboratory reporting limits.

APPENDIX B

Air Mitigation System - Historical Air Analytical Results

Michigan Plaza

Indianapolis, Indiana

MUNDELL Project No.: M01046

Sample Date	Trichloroethylene (TCE)											
	B-1	B-2	B-3	B-4	B-1	B-2	B-3	B-4	B-1	B-2	B-3	B-4
	(ppmv)				(ppm)				(µg/m^3)			
9/21/2006	0.0240	0.0120	*0.0050*	*0.0050*	0.0001	0.0001	*0.00003*	*0.00003*	129.24	64.62	*26.93*	*26.93*
10/6/2006	0.0120	*0.0050*	*0.0050*	*0.0050*	0.0001	*0.00003*	*0.00003*	*0.00003*	64.62	*26.93*	*26.93*	*26.93*
10/13/2006	*0.0050*	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*	*26.93*
10/20/2006	*0.0050*	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*	*26.93*
11/17/2006	*0.0050*	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*	*26.93*
12/27/2006	*0.0050*	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*	*26.93*
3/30/2007	*0.0050*	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*	*26.93*
6/15/2007	0.4600	*0.0050*	*0.0050*	*0.0050*	0.0025	*0.00003*	*0.00003*	*0.00003*	2,477.10	*26.93*	*26.93*	*26.93*
10/16/2007	*0.0050*	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*	*26.93*
12/14/2007	*0.0050*	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*	*26.93*
3/27/2008	*0.0050*	NS	*0.0050*	*0.0050*	*0.00003*	NS	*0.00003*	*0.00003*	*26.93*	NS	*26.93*	*26.93*
4/1/2008	NS	*0.0050*	NS	NS	NS	*0.0000*	NS	NS	NS	*26.93*	NS	NS
6/2/2008	*0.0050*	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*	*26.93*
9/12/2008	*0.0050*	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*	*26.93*
11/26/2008	*0.0050*	NS	*0.0050*	*0.0050*	*0.00003*	NS	*0.00003*	*0.00003*	*26.93*	NS	*26.93*	*26.93*
3/24/2009	*0.0050*	NS	*0.0050*	*0.0050*	*0.00003*	NS	*0.00003*	*0.00003*	*26.93*	NS	*26.93*	*26.93*
6/15/2009	*0.0050*	NS	*0.0050*	*0.0050*	*0.00003*	NS	*0.00003*	*0.00003*	*26.93*	NS	*26.93*	*26.93*
8/21/2009	*0.0050*	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*	*26.93*
11/5/2009	*0.0050*	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*	*26.93*
2/5/2010	*0.0050*	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*	*26.93*
4/23/2010	*0.0050*	NS	NS	*0.0050*	*0.00003*	NS	NS	*0.00003*	*26.93*	NS	NS	*26.93*
5/6/2010	NS	*0.0050*	*0.0050*	NS	NS	*0.00003*	*0.00003*	NS	NS	*26.93*	*26.93*	NS
7/23/2010	*0.0050*	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*	*26.93*
10/13/2010	NS	NS	NS	*0.0050*	NS	NS	NS	*0.00003*	NS	NS	NS	*26.93*
10/15/2010	*0.0050*	*0.0050*	*0.0050*	NS	*0.00003*	*0.00003*	*0.00003*	NS	*26.93*	*26.93*	*26.93*	NS
1/21/2011	*0.0050*	*0.0050*	NS	*0.0050*	*0.00003*	*0.00003*	NS	*0.00003*	*26.93*	*26.93*	NS	*26.93*
4/8/2011	NS	NS	0.0050	NS	NS	NS	0.00003	NS	NS	NS	26.93	NS
5/11/2011	*0.0050*	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*	*26.93*
7/29/2011	*0.0050*	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*	*26.93*
10/25/2011	*0.0050*	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*	*26.93*
1/20/2012	*0.0050*	*0.0050*	*0.0011*	*0.0050*	*0.00003*	*0.00003*	*0.00001*	*0.00003*	*26.93*	*26.93*	*5.92*	*26.93*

NS = Not sampled

Italic = Reported concentrations are estimated values (J-flagged values) or below laboratory detection limits. Concentrations of PCE, TCE, and cis-1,2-DCE are assumed to be one-half the laboratory practical quantitation limit (PQL). Concentrations of vinyl chloride are assumed to be 0.015 ppmv, representing the mean detected concentration below laboratory reporting limits.

APPENDIX B

Air Mitigation System - Historical Air Analytical Results

Michigan Plaza

Indianapolis, Indiana

MUNDELL Project No.: M01046

Sample Date	Vinyl Chloride											
	B-1	B-2	B-3	B-4	B-1	B-2	B-3	B-4	B-1	B-2	B-3	B-4
	(ppmv)				(ppm)				($\mu g/m^3$)			
9/21/2006	*0.0150*	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*	*38.42*
10/6/2006	*0.0150*	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*	*38.42*
10/13/2006	*0.0150*	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*	*38.42*
10/20/2006	*0.0150*	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*	*38.42*
11/17/2006	*0.0150*	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*	*38.42*
12/27/2006	*0.0150*	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*	*38.42*
3/30/2007	*0.0150*	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*	*38.42*
6/15/2007	*0.0150*	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*	*38.42*
10/16/2007	*0.0150*	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*	*38.42*
12/14/2007	*0.0150*	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*	*38.42*
3/27/2008	*0.0150*	NS	*0.0150*	*0.0150*	*0.00004*	NS	*0.00004*	*0.00004*	*38.42*	NS	*38.42*	*38.42*
4/1/2008	NS	*0.0150*	NS	NS	NS	*0.00004*	NS	NS	NS	*38.42*	NS	NS
6/2/2008	*0.0150*	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*	*38.42*
9/12/2008	*0.0150*	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*	*38.42*
11/26/2008	*0.0150*	NS	*0.0150*	*0.0150*	*0.00004*	NS	*0.00004*	*0.00004*	*38.42*	NS	*38.42*	*38.42*
3/24/2009	*0.0150*	NS	*0.0150*	*0.0150*	*0.00004*	NS	*0.00004*	*0.00004*	*38.42*	NS	*38.42*	*38.42*
6/15/2009	*0.0150*	NS	*0.0150*	*0.0150*	*0.00004*	NS	*0.00004*	*0.00004*	*38.42*	NS	*38.42*	*38.42*
8/21/2009	*0.0150*	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*	*38.42*
11/5/2009	*0.0150*	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*	*38.42*
2/5/2010	*0.0150*	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*	*38.42*
4/23/2010	*0.0150*	NS	NS	*0.0150*	*0.00004*	NS	NS	*0.00004*	*38.42*	NS	NS	*38.42*
5/6/2010	NS	*0.0150*	*0.0150*	NS	NS	*0.00004*	*0.00004*	NS	NS	*38.42*	*38.42*	NS
7/23/2010	*0.0150*	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*	*38.42*
10/13/2010	NS	NS	NS	*0.0150*	NS	NS	NS	*0.00004*	NS	NS	NS	*38.42*
10/15/2010	*0.0150*	*0.0150*	*0.0150*	NS	*0.00004*	*0.00004*	*0.00004*	NS	*38.42*	*38.42*	*38.42*	NS
1/21/2011	*0.0150*	*0.0150*	NS	*0.0150*	*0.00004*	*0.00004*	NS	*0.00004*	*38.42*	*38.42*	NS	*38.42*
4/8/2011	NS	NS	*0.0150*	NS	NS	NS	*0.00004*	NS	NS	NS	38.42	NS
5/11/2011	*0.0150*	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*	*38.42*
7/29/2011	*0.0150*	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*	*38.42*
10/25/2011	*0.0150*	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*	*38.42*
1/20/2012	*0.2000*	*0.1100*	*0.0150*	*0.0150*	*0.00051*	*0.00028*	*0.00004*	*0.00004*	*512.20*	*281.71*	*38.42*	*38.42*

NS = Not sampled

Italic = Reported concentrations are estimated values (J-flagged values) or below laboratory detection limits. Concentrations of PCE, TCE, and cis-1,2-DCE are assumed to be one-half the laboratory practical quantitation limit (PQL). Concentrations of vinyl chloride are assumed to be 0.015 ppmv, representing the mean detected concentration below laboratory reporting limits.

APPENDIX B

Air Mitigation System - Historical Air Analytical Results

Michigan Plaza

Indianapolis, Indiana

MUNDELL Project No.: M01046

Sample Date	cis-1,2-Dichloroethylene											
	B-1	B-2	B-3	B-4	B-1	B-2	B-3	B-4	B-1	B-2	B-3	B-4
	(ppmv)				(ppm)				(µg/m^3)			
9/21/2006	0.1400	*0.0100*	*0.0100*	*0.0100*	0.0006	*0.00004*	*0.00004*	*0.00004*	556.22	*39.73*	*39.73*	*39.73*
10/6/2006	0.0300	*0.0100*	*0.0100*	*0.0100*	0.0001	*0.00004*	*0.00004*	*0.00004*	119.19	*39.73*	*39.73*	*39.73*
10/13/2006	*0.0100*	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*	*39.73*
10/20/2006	*0.0100*	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*	*39.73*
11/17/2006	*0.0100*	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*	*39.73*
12/27/2006	0.0240	*0.0100*	*0.0100*	*0.0100*	0.0001	*0.00004*	*0.00004*	*0.00004*	95.35	*39.73*	*39.73*	*39.73*
3/30/2007	*0.0100*	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*	*39.73*
6/15/2007	0.2100	*0.0100*	*0.0100*	*0.0100*	0.0008	*0.00004*	*0.00004*	*0.00004*	834.33	*39.73*	*39.73*	*39.73*
10/16/2007	*0.0100*	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*	*39.73*
12/14/2007	*0.0100*	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*	*39.73*
3/27/2008	0.0340	NS	*0.0100*	*0.0100*	0.0001	NS	*0.00004*	*0.00004*	135.08	NS	*39.73*	*39.73*
4/1/2008	NS	*0.0100*	NS	NS	NS	*0.00004*	NS	NS	NS	*39.73*	NS	NS
6/2/2008	*0.0100*	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*	*39.73*
9/12/2008	*0.0100*	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*	*39.73*
11/26/2008	*0.0100*	NS	*0.0100*	*0.0100*	*0.00004*	NS	*0.00004*	*0.00004*	*39.73*	NS	*39.73*	*39.73*
3/24/2009	*0.0100*	NS	*0.0100*	*0.0100*	*0.00004*	NS	*0.00004*	*0.00004*	*39.73*	NS	*39.73*	*39.73*
6/15/2009	*0.0100*	NS	*0.0100*	*0.0100*	*0.00004*	NS	*0.00004*	*0.00004*	*39.73*	NS	*39.73*	*39.73*
8/21/2009	*0.0100*	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*	*39.73*
11/5/2009	*0.0100*	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*	*39.73*
2/5/2010	*0.0100*	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*	*39.73*
4/23/2010	*0.0100*	NS	NS	*0.0100*	*0.00004*	NS	NS	*0.00004*	*39.73*	NS	NS	*39.73*
5/6/2010	NS	*0.0100*	*0.0100*	NS	NS	*0.00004*	*0.00004*	NS	NS	*39.73*	*39.73*	NS
7/23/2010	*0.0100*	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*	*39.73*
10/13/2010	NS	NS	NS	*0.0100*	NS	NS	NS	*0.00004*	NS	NS	NS	*39.73*
10/15/2010	*0.0100*	*0.0100*	*0.0100*	NS	*0.00004*	*0.00004*	*0.00004*	NS	*39.73*	*39.73*	*39.73*	NS
1/21/2011	*0.0100*	*0.0100*	NS	*0.0100*	*0.00004*	*0.00004*	NS	*0.00004*	*39.73*	*39.73*	NS	*39.73*
4/8/2011	NS	NS	0.0500	NS	NS	NS	0.0002	NS	NS	NS	198.65	NS
5/11/2011	*0.0100*	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*	*39.73*
7/29/2011	*0.0100*	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*	*39.73*
10/25/2011	*0.0100*	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*	*39.73*
1/20/2012	*0.0100*	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*	*39.73*

NS = Not sampled

Italic = Reported concentrations are estimated values (J-flagged values) or below laboratory detection limits. Concentrations of PCE, TCE, and cis-1,2-DCE are assumed to be one-half the laboratory practical quantitation limit (PQL). Concentrations of vinyl chloride are assumed to be 0.015 ppmv, representing the mean detected concentration below laboratory reporting limits.

APPENDIX B

Air Mitigation System - Historical Air Analytical Results

Michigan Meadows Apartments

Indianapolis, Indiana

MUNDELL Project No.: M01046

Sample Date	Perchloroethylene (PCE)								
	B-5	B-6	B-7	B-5	B-6	B-7	B-5	B-6	B-7
	(ppmv)			(ppm)			($\mu g/m^3$)		
3/27/2008	0.1300	1.2000	NS	0.0009	0.0082	NS	883.48	8155.20	NS
3/28/2008	0.0730	0.4900	NS	0.0005	0.0033	NS	496.11	3330.04	NS
4/7/2008	NS	NS	0.0760	NS	NS	0.0005	NS	NS	516.50
4/8/2008	NS	NS	0.0470	NS	NS	0.0003	NS	NS	319.41
4/24/2008	0.0540	0.1100	0.0220	0.0004	0.0007	0.0001	366.98	747.56	149.51
5/1/2008	0.0580	0.2100	0.0390	0.0004	0.0014	0.0003	394.17	1427.16	265.04
6/2/2008	0.0590	0.2200	0.0530	0.0004	0.0015	0.0004	400.96	1495.12	360.19
7/10/2008	0.0650	NS	0.0540	0.0004	NS	0.0004	441.74	NS	366.98
8/20/2008	NS	0.2700	NS	NS	0.0018	NS	NS	1834.92	NS
9/12/2008	0.0690	0.1800	0.0540	0.0005	0.0012	0.0004	468.92	1223.28	366.98
11/26/2008	0.0720	0.1100	0.0560	0.0005	0.0007	0.0004	489.31	747.56	380.58
3/24/2009	0.2100	0.1300	0.0590	0.0014	0.0009	0.0004	1427.16	883.48	400.96
6/15/2009	0.0580	0.0840	*0.0050*	0.0004	0.0006	*0.00003*	394.17	570.86	*33.98*
8/21/2009	0.0630	0.0710	*0.0050*	0.0004	0.0005	*0.00003*	428.15	482.52	*33.98*
11/5/2009	0.1300	0.1100	*0.0050*	0.0009	0.0007	*0.00003*	883.48	747.56	*33.98*
2/5/2010	0.0220	0.0800	*0.0050*	0.0001	0.0005	*0.00003*	149.51	543.68	*33.98*
2/6/2010	0.0220	0.0800	*0.0050*	0.0001	0.0005	*0.00003*	149.51	543.68	*33.98*
4/23/2010	0.0120	NS	*0.0050*	0.0001	NS	*0.00003*	81.55	NS	*33.98*
5/12/2010	NS	0.1300	NS	NS	0.0009	NS	NS	883.48	NS
7/23/2010	0.0270	0.1000	*0.0050*	0.0002	0.0007	*0.00003*	183.49	679.60	*33.98*
10/15/2010	0.0150	0.0190	*0.0050*	0.0001	0.0001	*0.00003*	101.94	129.12	*33.98*
1/21/2011	0.0330	0.0490	*0.0050*	0.0002	0.0003	*0.00003*	224.27	333.00	*33.98*
5/11/2011	0.0580	0.0610	*0.0050*	0.0004	0.0004	*0.00003*	394.17	414.56	*33.98*
7/29/2011	0.0220	0.0210	*0.0050*	0.0001	0.0001	*0.00003*	149.51	142.72	*33.98*
10/25/2011	0.0300	0.0250	*0.0050*	0.0002	0.0002	*0.00003*	203.88	169.90	*33.98*
1/20/2012	0.0220	0.0180	*0.0029*	0.0001	0.0001	*0.00002*	149.51	122.33	*19.71*

NS = Not sampled

Italic = Reported concentrations are estimated values (J-flagged values) or below laboratory detection limits. Concentrations of PCE, TCE, and cis-1,2-DCE are assumed to be one-half the laboratory practical quantitation limit (PQL). Concentrations of vinyl chloride are assumed to be 0.015 ppmv, representing the mean detected concentration below laboratory reporting limits.

APPENDIX B

Air Mitigation System - Historical Air Analytical Results

Michigan Meadows Apartments

Indianapolis, Indiana

MUNDELL Project No.: M01046

Sample Date	Trichloroethylene (TCE)								
	B-5	B-6	B-7	B-5	B-6	B-7	B-5	B-6	B-7
	(ppmv)			(ppm)			($\mu g/m^3$)		
3/27/2008	*0.0050*	*0.0050*	NS	*0.00003*	*0.00003*	NS	*26.93*	*26.93*	NS
3/28/2008	*0.0050*	*0.0050*	NS	*0.00003*	*0.00003*	NS	*26.93*	*26.93*	NS
4/7/2008	NS	NS	*0.0050*	NS	NS	*0.00003*	NS	NS	*26.93*
4/8/2008	NS	NS	*0.0050*	NS	NS	*0.00003*	NS	NS	*26.93*
4/24/2008	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*
5/1/2008	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*
6/2/2008	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*
7/10/2008	*0.0050*	NS	*0.0050*	*0.00003*	NS	*0.00003*	*26.93*	NS	*26.93*
8/20/2008	NS	*0.0050*	NS	NS	*0.00003*	NS	NS	*26.93*	NS
9/12/2008	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*
11/26/2008	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*
3/24/2009	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*
6/15/2009	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*
8/21/2009	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*
11/5/2009	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*
2/5/2010	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*
2/6/2010	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*
4/23/2010	*0.0050*	NS	*0.0050*	*0.00003*	NS	*0.00003*	*26.93*	NS	*26.93*
5/12/2010	NS	*0.0050*	NS	NS	*0.00003*	NS	NS	*26.93*	NS
7/23/2010	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*
10/15/2010	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*
1/21/2011	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*
5/11/2011	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*
7/29/2011	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*
10/25/2011	*0.0050*	*0.0050*	*0.0050*	*0.00003*	*0.00003*	*0.00003*	*26.93*	*26.93*	*26.93*
1/20/2012	*0.0012*	*0.0050*	*0.0050*	*0.00001*	*0.00003*	*0.00003*	*6.46*	*26.93*	*26.93*

NS = Not sampled

Italic = Reported concentrations are estimated values (J-flagged values) or below laboratory detection limits. Concentrations of PCE, TCE, and cis-1,2-DCE are assumed to be one-half the laboratory practical quantitation limit (PQL). Concentrations of vinyl chloride are assumed to be 0.015 ppmv, representing the mean detected concentration below laboratory reporting limits.

APPENDIX B

Air Mitigation System - Historical Air Analytical Results

Michigan Meadows Apartments

Indianapolis, Indiana

MUNDELL Project No.: M01046

Sample Date	Vinyl Chloride								
	B-5	B-6	B-7	B-5	B-6	B-7	B-5	B-6	B-7
	(ppmv)			(ppm)			($\mu g/m^3$)		
3/27/2008	*0.0150*	*0.0150*	NS	*0.00004*	*0.00004*	NS	*38.42*	*38.42*	NS
3/28/2008	*0.0150*	*0.0150*	NS	*0.00004*	*0.00004*	NS	*38.42*	*38.42*	NS
4/7/2008	NS	NS	*0.0150*	NS	NS	*0.00004*	NS	NS	*38.42*
4/8/2008	NS	NS	*0.0150*	NS	NS	*0.00004*	NS	NS	*38.42*
4/24/2008	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*
5/1/2008	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*
6/2/2008	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*
7/10/2008	*0.0150*	NS	*0.0150*	*0.00004*	NS	*0.00004*	*38.42*	NS	38.42
8/20/2008	NS	*0.0150*	NS	NS	*0.00004*	NS	NS	*38.42*	NS
9/12/2008	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*
11/26/2008	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*
3/24/2009	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*
6/15/2009	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*
8/21/2009	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*
11/5/2009	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*
2/5/2010	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*
2/6/2010	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*
4/23/2010	*0.0150*	NS	*0.0150*	*0.00004*	NS	*0.00004*	*38.42*	NS	*38.42*
5/12/2010	NS	*0.0150*	NS	NS	*0.00004*	NS	NS	*38.42*	NS
7/23/2010	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*
10/15/2010	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*
1/21/2011	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*
5/11/2011	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*
7/29/2011	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*
10/25/2011	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*
1/20/2012	*0.0150*	*0.0150*	*0.0150*	*0.00004*	*0.00004*	*0.00004*	*38.42*	*38.42*	*38.42*

NS = Not sampled

Italic = Reported concentrations are estimated values (J-flagged values) or below laboratory detection limits. Concentrations of PCE, TCE, and cis-1,2-DCE are assumed to be one-half the laboratory practical quantitation limit (PQL). Concentrations of vinyl chloride are assumed to be 0.015 ppmv, representing the mean detected concentration below laboratory reporting limits.

APPENDIX B

Air Mitigation System - Historical Air Analytical Results

Michigan Meadows Apartments

Indianapolis, Indiana

MUNDELL Project No.: M01046

Sample Date	cis-1,2-Dichloroethylene								
	B-5	B-6	B-7	B-5	B-6	B-7	B-5	B-6	B-7
	(ppmv)			(ppm)			($\mu g/m^3$)		
3/27/2008	*0.0100*	*0.0100*	NS	*0.00004*	*0.00004*	NS	*39.73*	*39.73*	NS
3/28/2008	*0.0100*	*0.0100*	NS	*0.00004*	*0.00004*	NS	*39.73*	*39.73*	NS
4/7/2008	NS	NS	*0.0100*	NS	NS	*0.00004*	NS	NS	*39.73*
4/8/2008	NS	NS	*0.0100*	NS	NS	*0.00004*	NS	NS	*39.73*
4/24/2008	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*
5/1/2008	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*
6/2/2008	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*
7/10/2008	*0.0100*	NS	*0.0100*	*0.00004*	NS	*0.00004*	*39.73*	NS	*39.73*
8/20/2008	NS	*0.0100*	NS	NS	*0.00004*	NS	NS	39.73	NS
9/12/2008	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*
11/26/2008	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*
3/24/2009	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*
6/15/2009	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*
8/21/2009	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*
11/5/2009	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*
2/5/2010	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*
2/6/2010	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*
4/23/2010	*0.0100*	NS	*0.0100*	*0.00004*	NS	*0.00004*	*39.73*	NS	*39.73*
5/12/2010	NS	*0.0100*	NS	NS	*0.00004*	NS	NS	*39.73*	NS
7/23/2010	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*
10/15/2010	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*
1/21/2011	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*
5/11/2011	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*
7/29/2011	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*
10/25/2011	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*
1/20/2012	*0.0100*	*0.0100*	*0.0100*	*0.00004*	*0.00004*	*0.00004*	*39.73*	*39.73*	*39.73*

NS = Not sampled

Italic = Reported concentrations are estimated values (J-flagged values) or below laboratory detection limits. Concentrations of PCE, TCE, and cis-1,2-DCE are assumed to be one-half the laboratory practical quantitation limit (PQL). Concentrations of vinyl chloride are assumed to be 0.015 ppmv, representing the mean detected concentration below laboratory reporting limits.

Lab Data for Air Mitigation System B-1
First Quarter 2012
1/20/2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

B-1 (Lab Data)

Sample Date	Hours per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	µg/m3 PCE	Lbs. PCE removed	µg/m3 TCE	Lbs. TCE removed	µg/m3 VC	Lbs. VC removed	µg/m3 cis-1,2-DCE	Lbs. cis-1,2-DCE removed	Lbs. Total Pollutants Removed (ug/m3)	Cumulative PCE lbs Removed	Cumulative Total Pollutant lbs Removed
9/21/2006	0.5	73	2,190	4,281	0.00	129	0.00	38	0.00	556	0.00	0.00	0.00	0.00
10/6/2006	360	73	1,576,800	5,980	0.59	65	0.01	38	0.00	119	0.01	0.61	0.59	0.61
10/13/2006	168	73	735,840	4,621	0.21	27	0.00	38	0.00	40	0.00	0.22	0.80	0.83
10/20/2006	168	73	735,840	5,913	0.27	27	0.00	38	0.00	40	0.00	0.28	1.07	1.10
11/17/2006	672	73	2,943,360	5,505	1.01	27	0.00	38	0.01	40	0.01	1.03	2.08	2.13
12/27/2006	960	73	4,204,800	5,029	1.32	27	0.01	38	0.01	95	0.03	1.36	3.40	3.50
3/30/2007	2,232	73	9,776,160	3,466	2.11	27	0.02	38	0.02	40	0.02	2.18	5.52	5.67
6/15/2007	1,848	73	8,094,240	34	0.02	2,477	1.25	38	0.02	834	0.42	1.71	5.53	7.38
10/16/2007	2,952	73	12,929,760	2,650	2.14	27	0.02	38	0.03	40	0.03	2.22	7.67	9.60
12/14/2007	1,416	73	6,202,080	3,942	1.52	27	0.01	38	0.01	40	0.02	1.57	9.20	11.17
3/27/2008	2,496	73	10,932,480	3,738	2.55	27	0.02	38	0.03	135	0.09	2.69	11.74	13.86
6/2/2008	1,608	73	7,043,040	4,893	2.15	27	0.01	38	0.02	40	0.02	2.20	13.89	16.05
9/12/2008	2,448	73	10,722,240	3,262	2.18	27	0.02	38	0.03	40	0.03	2.25	16.08	18.30
11/26/2008	1,800	73	7,884,000	3,126	1.54	27	0.01	38	0.02	40	0.02	1.59	17.61	19.89
3/24/2009	2,832	73	12,404,160	3,058	2.37	27	0.02	38	0.03	40	0.03	2.45	19.98	22.34
6/15/2009	1,992	73	8,724,960	2,922	1.59	27	0.01	38	0.02	40	0.02	1.65	21.57	23.99
8/21/2009	1,608	73	7,043,040	2,447	1.07	27	0.01	38	0.02	40	0.02	1.12	22.65	25.11
11/5/2009	1,824	73	7,989,120	2,243	1.12	27	0.01	38	0.02	40	0.02	1.17	23.76	26.28
2/5/2010	2,208	73	9,671,040	1,087	0.66	27	0.02	38	0.02	40	0.02	0.72	24.42	27.00
4/23/2010	1,848	55	6,098,400	883	0.34	27	0.01	38	0.01	40	0.02	0.38	24.75	27.37
7/23/2010	2,184	55	7,207,200	1,019	0.46	27	0.01	38	0.02	40	0.02	0.51	25.21	27.88
10/15/2010	2,016	73	8,830,080	639	0.35	27	0.01	38	0.02	40	0.02	0.41	25.57	28.29
1/21/2011	2,352	55	7,761,600	951	0.46	27	0.01	38	0.02	40	0.02	0.51	26.03	28.80
5/11/2011	2,640	73	11,563,200	1,495	1.08	27	0.02	38	0.03	40	0.03	1.15	27.10	29.95
7/29/2011	1,896	73	8,304,480	449	0.23	27	0.01	38	0.02	40	0.02	0.29	27.34	30.24
10/25/2011	2,112	55	6,969,600	748	0.33	27	0.01	38	0.02	40	0.02	0.37	27.66	30.61
1/20/2012	2,088	55	6,890,400	680	0.29	27	0.01	512	0.22	40	0.02	0.54	27.95	31.15
TOTALS:	**46,729**		**193,240,110**		**28**		**2**		**1**		**1**	**31.15**		

B-1 (PID Readings)

Sample Date	Hours Per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	PID Reading (ppm VOCs)	µg/m3 VOCs	Lbs. VOCs Removed	Cum Total lbs Removed (Est from PID)
11/17/2006	672	73	2,943,360	0.1	1,483	0.27	0.27
12/27/2006	960	73	4,204,800	0.0	1,296	0.34	0.61
6/15/2007	4,080	73	17,870,400	0.1	1,483	1.65	2.26
10/16/2007	2,952	73	12,929,760	0.1	1,483	1.20	3.46
12/14/2007	1,416	73	6,202,080	0.1	1,483	0.57	4.03
6/2/2008	4,104	73	17,975,520	2.2	5,401	6.06	10.09
9/12/2008	2,448	73	10,722,240	0.3	1,856	1.24	11.33
11/26/2008	1,800	73	7,884,000	0.1	1,483	0.73	12.06
8/21/2009	6,432	73	28,172,160	3.8	8,387	14.74	26.80
11/5/2009	1,824	73	7,989,120	2.1	5,215	2.60	29.40
2/5/2010	2,208	73	9,671,040	2.3	5,588	3.37	32.77
5/6/2010	2,160	55	7,128,000	2.2	5,401	2.40	35.17
10/15/2010	3,888	73	17,029,440	2.0	5,028	5.34	40.51
1/21/2011	2,352	55	7,761,600	1.9	4,841	2.34	42.86
5/11/2011	2,640	73	11,563,200	1.9	4,841	3.49	46.35
7/29/2011	1,896	73	8,304,480	1.1	3,349	1.73	48.08
10/25/2011	4,008	55	13,226,400	2.1	5,215	4.30	52.38
1/20/2012	4,200	55	13,860,000	1.7	4,468	3.86	56.25
TOTALS:	**50,040**		**205,437,600**			**56.25**	

Lab Data for Air Mitigation System B-2
First Quarter 2012
1/20/2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

B-2 (Lab Data)

Sample Date	Hours per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	µg/m3 PCE	Lbs. PCE removed	µg/m3 TCE	Lbs. TCE removed	µg/m3 VC	Lbs. VC removed	µg/m3 cis-1,2-DCE	Lbs. cis-1,2-DCE removed	Lbs. Total Pollutants Removed	Cumulative PCE lbs Removed	Cumulative Total Pollutant lbs Removed
9/21/2006	0.5	37	1,110	5,369	0.00	65	0.00	38	0.00	40	0.00	0.00	0.00	0.00
10/6/2006	360	37	799,200	4,553	0.23	27	0.00	38	0.00	40	0.00	0.23	0.23	0.23
10/13/2006	168	37	372,960	2,447	0.06	27	0.00	38	0.00	40	0.00	0.06	0.28	0.29
10/20/2006	168	37	372,960	3,738	0.09	27	0.00	38	0.00	40	0.00	0.09	0.37	0.38
11/17/2006	672	37	1,491,840	3,194	0.30	27	0.00	38	0.00	40	0.00	0.31	0.67	0.69
12/27/2006	960	37	2,131,200	3,194	0.42	27	0.00	38	0.01	40	0.01	0.44	1.09	1.13
3/30/2007	2,232	38	5,088,960	1,223	0.39	27	0.01	38	0.01	40	0.01	0.42	1.48	1.55
6/15/2007	1,848	42	4,656,960	2,107	0.61	27	0.01	38	0.01	40	0.01	0.64	2.09	2.19
10/16/2007	2,952	48	8,501,760	1,631	0.86	27	0.01	38	0.02	40	0.02	0.92	2.96	3.11
12/14/2007	1,416	53	4,502,880	2,311	0.65	27	0.01	38	0.01	40	0.01	0.68	3.61	3.79
4/1/2008	2,616	50	7,848,000	2,447	1.20	27	0.01	38	0.02	40	0.02	1.25	4.81	5.04
6/2/2008	1,488	42	3,705,120	3,806	0.88	27	0.01	38	0.01	40	0.01	0.90	5.68	5.94
9/12/2008	2,448	37	5,434,560	3,194	1.08	27	0.01	38	0.01	40	0.01	1.12	6.77	7.06
8/21/2009	1,440	37	3,196,800	1,087	0.22	27	0.01	38	0.01	40	0.01	0.24	6.98	7.30
11/5/2009	1,824	37	4,049,280	951	0.24	27	0.01	38	0.01	40	0.01	0.27	7.22	7.57
2/5/2010	2,208	55	7,286,400	251	0.11	27	0.01	38	0.02	40	0.02	0.16	7.34	7.73
5/6/2010	2,160	37	4,795,200	1,019	0.30	27	0.01	38	0.01	40	0.01	0.34	7.64	8.06
7/23/2010	1,872	37	4,155,840	1,291	0.33	27	0.01	38	0.01	40	0.01	0.36	7.98	8.43
10/15/2010	2,016	55	6,652,800	442	0.18	27	0.01	38	0.02	40	0.02	0.23	8.16	8.65
1/21/2011	2,352	55	7,761,600	183	0.09	27	0.01	38	0.02	40	0.02	0.14	8.25	8.79
5/11/2011	2,640	37	5,860,800	1,835	0.67	27	0.01	38	0.01	40	0.01	0.71	8.92	9.50
7/29/2011	1,896	37	4,209,120	1,155	0.30	27	0.01	38	0.01	40	0.01	0.33	9.23	9.83
10/25/2011	2,112	37	4,688,640	816	0.24	27	0.01	38	0.01	40	0.01	0.27	9.16	10.10
1/20/2012	2,088	37	4,635,360	550	0.16	27	0.01	282	0.08	40	0.01	0.26	9.38	10.36
TOTALS:	**39,937**		**102,199,350**		**9.62**		**0.17**		**0.32**		**0.25**	**10.36**		

B-2 (PID Readings)

Sample Date	Hours Per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	PID Reading (ppm VOCs)	µg/m3 VOCs	Lbs. VOCs Removed	Cum Total lbs Removed (Est from PID)
11/17/2006	672.0	37	1,491,840	0.1	1,483	0.14	0.14
12/27/2006	960	37	2,131,200	0.1	1,483	0.20	0.34
6/15/2007	4,080	37	9,057,600	0.1	1,483	0.84	1.17
10/16/2007	2,952	37	6,553,440	0.1	1,483	0.61	1.78
12/14/2007	1,416	55	4,672,800	0.1	1,483	0.43	2.21
6/2/2008	4,104	132	32,503,680	1.5	4,095	8.30	10.51
9/12/2008	2,448	37	5,434,560	0.5	2,229	0.76	11.27
8/21/2009	8,232	55	27,165,600	2.4	5,774	9.79	21.05
11/5/2009	1,824	94	10,287,360	1.6	4,282	2.75	23.80
2/5/2010	2,208	55	7,286,400	0.6	2,416	1.10	24.90
5/6/2010	2,160	37	4,795,200	1.4	3,908	1.17	26.07
10/15/2010	3,888	55	12,830,400	3.2	7,267	5.82	31.89
1/21/2011	2,352	55	7,761,600	1.4	3,908	1.89	33.78
5/11/2011	2,640	37	5,860,800	1.6	4,282	1.57	35.34
7/29/2011	1,896	37	4,209,120	1.7	4,468	1.2	36.52
10/25/2011	2,112	37	4,688,640	1.9	4,841	1.4	37.93
1/20/2012	2,088	37	4,635,360	1.5	4,095	1.2	39.12
TOTALS:	**46,032**		**151,365,600**			**39.12**	

Lab Data for Air Mitigation System B-3
First Quarter 2012
1/20/2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

B-3 (Lab Data)

Sample Date	Hours per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	µg/m3 PCE	Lbs. PCE removed	µg/m3 TCE	Lbs. TCE removed	µg/m3 VC	Lbs. VC removed	µg/m3 cis-1,2-DCE	Lbs. cis-1,2-DCE removed	Lbs. Total Pollutants Removed	Cumulative PCE lbs Removed	Cumulative Total Pollutant lbs Removed
9/21/2006	0.5	132	3,960	4,553	0.00	27	0.00	38	0.00	40	0.00	0.00	0.00	0.00
10/6/2006	360	132	2,851,200	6,592	1.17	27	0.00	38	0.01	40	0.01	1.19	1.17	1.19
10/13/2006	168	132	1,330,560	3,534	0.29	27	0.00	38	0.00	40	0.00	0.30	1.47	1.49
10/20/2006	168	132	1,330,560	6,048	0.50	27	0.00	38	0.00	40	0.00	0.51	1.97	2.01
11/17/2006	672	132	5,322,240	5,301	1.76	27	0.01	38	0.01	40	0.01	1.79	3.73	3.80
12/27/2006	960	132	7,603,200	5,097	2.42	27	0.01	38	0.02	40	0.02	2.47	6.15	6.27
3/30/2007	2,232	132	17,677,440	3,874	4.27	27	0.03	38	0.04	40	0.04	4.39	10.42	10.65
6/15/2007	1,848	132	14,636,160	1,427	1.30	27	0.02	38	0.04	40	0.04	1.40	11.72	12.05
10/16/2007	2,952	132	23,379,840	1,903	2.78	27	0.04	38	0.06	40	0.06	2.93	14.50	14.98
12/14/2007	1,416	132	11,214,720	3,534	2.47	27	0.02	38	0.03	40	0.03	2.55	16.97	17.53
3/27/2008	2,496	132	19,768,320	3,806	4.69	27	0.03	38	0.05	40	0.05	4.82	21.66	22.35
6/2/2008	1,608	55	5,306,400	3,330	1.10	27	0.01	38	0.01	40	0.01	1.14	22.76	23.49
9/12/2008	2,448	132	19,388,160	3,602	4.36	27	0.03	38	0.05	40	0.05	4.48	27.12	27.97
11/26/2008	1,800	132	14,256,000	2,447	2.18	27	0.02	38	0.03	40	0.04	2.27	29.30	30.24
3/24/2009	2,832	132	22,429,440	3,738	5.23	27	0.04	38	0.05	40	0.06	5.38	34.52	35.62
6/15/2009	1,992	132	15,776,640	2,854	2.81	27	0.03	38	0.04	40	0.04	2.91	37.33	38.53
8/21/2009	1,608	132	12,735,360	3,194	2.54	27	0.02	38	0.03	40	0.03	2.62	39.87	41.15
11/5/2009	1,824	132	14,446,080	2,786	2.51	27	0.02	38	0.03	40	0.04	2.61	42.38	43.75
2/5/2010	2,208	132	17,487,360	951.44	1.04	26.93	0.03	38	0.04	40	0.04	1.15	43.42	44.91
5/6/2010	2,160	132	17,107,200	1,699	1.81	27	0.03	38	0.04	40	0.04	1.93	45.23	46.83
7/23/2010	1,872	132	14,826,240	816	0.75	27	0.02	38	0.04	40	0.04	0.85	45.99	47.68
10/15/2010	2,016	132	15,966,720	34	0.03	27	0.03	38	0.04	40	0.04	0.14	46.02	47.82
1/21/2011	2,352	132	18,627,840	NS	0.00	NS	0.00	NS	0.00	NS	0.00	0.00	46.02	47.82
4/8/2011	1,848	132	14,636,160	1,427	1.30	27	0.02	38	0.04	199	0.18	1.54	47.32	49.37
5/11/2011	792	132	6,272,640	1,427	0.56	27	0.01	38	0.02	40	0.02	0.60	47.88	49.97
7/29/2011	1,896	132	15,016,320	748	0.70	27	0.03	38	0.04	40	0.04	0.80	48.58	50.76
10/25/2011	2,112	132	16,727,040	360	0.38	27	0.03	38	0.04	40	0.04	0.49	48.96	51.25
1/20/2012	2,088	55	6,890,400	449	0.19	6	0.00	38	0.02	40	0.02	0.23	49.15	51.48
TOTALS:	**46,729**		**353,014,200**		**49.15**		**0.55**		**0.80**		**0.97**	**51.48**		

B-3 (PID Readings)

Sample Date	Hours Per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	PID Reading (ppm VOCs)	µg/m3 VOCs	Lbs. VOCs Removed	Cum Total lbs Removed (Est from PID)
11/17/2006	672	132	5,322,240	2.0	5,028	1.67	1.67
12/27/2006	960	132	7,603,200	0.1	1,483	0.70	2.37
6/15/2007	4,080	132	32,313,600	0.1	1,483	2.99	5.36
10/16/2007	2,952	132	23,379,840	0.1	1,483	2.16	7.52
12/14/2007	1,416	132	11,214,720	0.1	1,483	1.04	8.56
6/2/2008	4,104	55	13,543,200	1.2	3,535	2.99	11.55
9/12/2008	2,448	132	19,388,160	0.5	2,229	2.70	14.24
11/26/2008	1,800	132	14,256,000	0.8	2,789	2.48	16.72
8/21/2009	6,432	132	50,941,440	0.0	1,296	4.12	20.84
11/5/2009	1,824	132	14,446,080	1.8	4,655	4.19	25.04
2/5/2010	2,208	132	17,487,360	1.5	4,095	4.47	29.50
5/6/2010	2,160	132	17,107,200	1.7	4,468	4.77	34.27
10/15/2010	3,888	132	30,792,960	0.1	1,483	2.85	37.12
1/21/2011	2,352	132	18,627,840	1.4	3,908	4.54	41.66
4/8/2011	1,848	132	14,636,160	2.4	5,774	5.27	46.93
5/11/2011	792	132	6,272,640	1.2	3,535	1.38	48.32
7/29/2011	1,896	132	15,016,320	1.3	3,722	3.5	51.80
10/25/2011	2,112	132	16,727,040	1.5	4,095	4.3	56.07
1/20/2012	2,088	55	6,890,400	1.4	3,908	1.7	57.75
TOTALS:	**46,032**		**335,966,400**			**57.75**	

Lab Data for Air Mitigation System B-4
First Quarter 2012
1/20/2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

B-4 (Lab Data)

Sample Date	Hours per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	µg/m3 PCE	Lbs. PCE removed	µg/m3 TCE	Lbs. TCE removed	µg/m3 VC	Lbs. VC removed	µg/m3 cis-1,2-DCE	Lbs. cis-1,2-DCE removed	Lbs. Total Pollutants Removed	Cumulative PCE lbs Removed	Cumulative Total Pollutant lbs Removed
9/21/2006	0.5	132	3,960	1,903	0.00	27	0.00	38	0.00	40	0.00	0.00	0.00	0.00
10/6/2006	360	132	2,851,200	2,107	0.37	27	0.00	38	0.01	40	0.01	0.39	0.38	0.39
10/13/2006	168	132	1,330,560	1,427	0.12	27	0.00	38	0.00	40	0.00	0.13	0.49	0.52
10/20/2006	168	132	1,330,560	1,495	0.12	27	0.00	38	0.00	40	0.00	0.13	0.62	0.65
11/17/2006	672	132	5,322,240	1,019	0.34	27	0.01	38	0.01	40	0.01	0.37	0.96	1.03
12/27/2006	960	132	7,603,200	748	0.35	27	0.01	38	0.02	40	0.02	0.40	1.31	1.43
3/30/2007	2,232	130	17,342,640	211	0.23	27	0.03	38	0.04	40	0.04	0.34	1.54	1.77
6/15/2007	1,848	125	13,887,720	3,126	2.71	27	0.02	38	0.03	40	0.03	2.80	4.25	4.57
10/16/2007	2,952	128	22,627,080	455	0.64	27	0.04	38	0.05	40	0.06	0.79	4.89	5.36
12/14/2007	1,416	132	11,214,720	951	0.67	27	0.02	38	0.03	40	0.03	0.74	5.56	6.10
3/27/2008	2,496	128	19,094,400	503	0.60	27	0.03	38	0.05	40	0.05	0.72	6.15	6.83
6/2/2008	1,608	119	11,481,120	680	0.49	27	0.02	38	0.03	40	0.03	0.56	6.64	7.39
9/12/2008	2,448	132	19,388,160	883	1.07	27	0.03	38	0.05	40	0.05	1.20	7.71	8.58
11/26/2008	1,800	132	14,256,000	748	0.66	27	0.02	38	0.03	40	0.04	0.76	8.37	9.34
3/24/2009	2,832	132	22,429,440	34	0.05	27	0.04	38	0.05	40	0.06	0.19	8.42	9.54
6/15/2009	1,992	132	15,776,640	136	0.13	27	0.03	38	0.04	40	0.04	0.24	8.56	9.77
8/21/2009	1,608	132	12,735,360	95	0.08	27	0.02	38	0.03	40	0.03	0.16	8.63	9.93
11/5/2009	1,824	132	14,446,080	34	0.03	27	0.02	38	0.03	40	0.04	0.13	8.66	10.06
2/5/2010	2,208	132	17,487,360	82	0.09	27	0.03	38	0.04	40	0.04	0.20	8.75	10.26
4/23/2010	1,848	115	12,751,200	116	0.09	27	0.02	38	0.03	40	0.03	0.18	8.84	10.44
7/23/2010	2,184	115	15,069,600	34	0.03	27	0.03	38	0.04	40	0.04	0.13	8.87	10.57
10/13/2010	1,968	115	13,579,200	34	0.03	27	0.02	38	0.03	40	0.03	0.12	8.90	10.69
1/21/2011	2,400	132	19,008,000	34	0.04	27	0.03	38	0.05	40	0.05	0.16	8.94	10.85
5/11/2011	2,640	132	20,908,800	156	0.20	27	0.04	38	0.05	40	0.05	0.34	9.15	11.19
7/29/2011	1,896	115	13,082,400	34	0.03	27	0.02	38	0.03	40	0.03	0.11	9.18	11.31
10/25/2011	2,112	132	16,727,040	34	0.04	27	0.03	38	0.04	40	0.04	0.15	9.21	11.45
1/20/2012	2,088	132	16,536,960	55	0.06	27	0.03	38	0.04	40	0.04	0.17	9.27	11.62
TOTALS:	**46,729**		**358,271,640**		**9.27**		**0.60**		**0.86**		**0.89**	**11.62**		

B-4 (PID Readings)

Sample Date	Hours Per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	PID Reading (ppm VOCs)	µg/m3 VOCs	Lbs. VOCs Removed	Cum Total lbs Removed (Est from PID)
11/17/2006	672	132	5,322,240	0.1	1,483	0.49	0.49
12/27/2006	960	132	7,603,200	0.1	1,483	0.70	1.20
6/15/2007	4,080	132	32,313,600	0.1	1,483	2.99	4.18
10/16/2007	2,952	132	23,379,840	0.1	1,483	2.16	6.35
12/14/2007	1,416	132	11,214,720	0.1	1,483	1.04	7.38
3/29/2008	2,544	132	20,148,480	1.8	4,655	5.85	13.23
6/2/2008	1,560	132	12,355,200	0.3	1,856	1.43	14.66
9/12/2008	2,448	132	19,388,160	0.4	2,042	2.47	17.13
11/26/2008	1,800	132	14,256,000	0.1	1,483	1.32	18.45
8/21/2009	6,432	115	44,380,800	0.0	1,296	3.59	22.04
11/6/2009	1,848	132	14,636,160	0.4	2,042	1.86	23.90
2/5/2010	2,184	132	17,297,280	0.6	2,416	2.61	26.51
4/23/2010	1,848	115	12,751,200	0.9	2,975	2.37	28.88
10/15/2010	4,200	115	28,980,000	0.5	2,229	4.03	32.91
1/21/2011	2,352	132	18,627,840	0.2	1,669	1.94	34.85
5/11/2011	2,640	132	20,908,800	0.1	1,483	1.93	36.78
7/29/2011	1,896	115	13,082,400	0.4	2,042	1.7	38.45
10/25/2011	2,112	132	16,727,040	0.5	2,229	2.3	40.77
1/20/2012	2,088	132	16,536,960	0.4	2,042	2.1	42.88
TOTALS:	**46,032**		**349,909,920**			**42.88**	

Lab Data for Air Mitigation System B-5
First Quarter 2012
1/20/2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

B-5 (Lab Data)

Sample Date	Hours per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	µg/m3 PCE	Lbs. PCE removed	µg/m3 TCE	Lbs. TCE removed	µg/m3 VC	Lbs. VC removed	µg/m3 cis-1,2-DCE	Lbs. cis-1,2-DCE removed	Lbs. Total Pollutants Removed	Cumulative PCE lbs Removed	Cumulative Total Pollutant lbs Removed
3/27/2008	0.5	130	3,900	883	0.00	27	0.00	38	0.00	40	0.00	0.00	0.00	0.00
3/28/2008	24	127	182,880	496	0.01	27	0.00	38	0.00	40	0.00	0.01	0.01	0.01
4/24/2008	648	120	4,665,600	367	0.11	27	0.01	38	0.01	40	0.01	0.14	0.11	0.14
5/1/2008	168	115	1,159,200	394	0.03	27	0.00	38	0.00	40	0.00	0.04	0.14	0.18
6/2/2008	768	114	5,253,120	401	0.13	27	0.01	38	0.01	40	0.01	0.17	0.27	0.35
7/10/2008	912	115	6,292,800	442	0.17	27	0.01	38	0.02	40	0.02	0.21	0.45	0.56
9/12/2008	1,536	114	10,506,240	469	0.31	27	0.02	38	0.03	40	0.03	0.38	0.75	0.94
11/26/2008	1,800	113	12,204,000	489	0.37	27	0.02	38	0.03	40	0.03	0.45	1.13	1.39
3/24/2009	2,832	122	20,730,240	1,427	1.85	27	0.03	38	0.05	40	0.05	1.98	2.97	3.37
6/15/2009	1,992	122	14,581,440	394	0.36	27	0.02	38	0.03	40	0.04	0.45	3.33	3.83
8/21/2009	1,608	122	11,770,560	428	0.31	27	0.02	38	0.03	40	0.03	0.39	3.64	4.22
11/5/2009	1,824	122	13,351,680	883	0.74	27	0.02	38	0.03	40	0.03	0.82	4.38	5.04
2/5/2010	2,208	110	14,572,800	150	0.14	26.93	0.02	38	0.03	40	0.04	0.23	4.52	5.27
4/23/2010	1,848	110	12,196,800	82	0.06	27	0.02	38	0.03	40	0.03	0.14	4.58	5.41
7/23/2010	2,184	110	14,414,400	183	0.16	27	0.02	38	0.03	40	0.04	0.26	4.74	5.67
10/15/2010	2,016	130	15,724,800	102	0.10	27	0.03	38	0.04	40	0.04	0.20	4.84	5.88
1/21/2011	2,352	110	15,523,200	224	0.22	27	0.03	38	0.04	40	0.04	0.32	5.06	6.19
5/11/2011	2,640	130	20,592,000	394	0.51	27	0.03	38	0.05	40	0.05	0.64	5.57	6.84
7/29/2011	1,896	110	12,513,600	150	0.12	27	0.02	38	0.03	40	0.03	0.20	5.68	7.03
10/25/2011	2,112	132	16,727,040	204	0.21	27	0.03	38	0.04	40	0.04	0.32	5.90	7.36
1/20/2012	2,088	110	13,780,800	150	0.13	6	0.01	38	0.03	40	0.03	0.20	6.02	7.56
TOTALS:	**33,457**		**236,747,100**		**6.02**		**0.38**		**0.57**		**0.59**	**7.56**		

B-5 (PID Readings)

Sample Date	Hours Per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	PID Reading (ppm VOCs)	µg/m3 VOCs	Lbs. VOCs Removed	Cum Total lbs Removed (Est from PID)
3/29/2008	50	110	330,000	0.1	1,483	0.03	0.03
6/2/2008	1,560	130	12,168,000	0.2	1,669	1.27	1.30
7/10/2008	912	110	6,019,200	0.7	2,602	0.98	2.27
9/12/2008	1,536	130	11,980,800	0.1	1,483	1.11	3.38
11/26/2008	1,800	130	14,040,000	0.1	1,483	1.30	4.68
8/21/2009	6,432	130	50,169,600	0.0	1,296	4.06	8.74
11/5/2009	1,824	130	14,227,200	0.2	1,669	1.48	10.22
2/5/2010	2,208	110	14,581,440	0.5	1,483	1.35	11.57
5/6/2010	2,160	110	14,256,000	1.4	3,908	3.48	15.04
10/15/2010	3,888	130	30,326,400	0.4	2,042	3.86	18.91
1/21/2011	2,352	110	15,523,200	0.4	2,042	1.98	20.88
5/11/2011	2,640	130	20,592,000	0.1	1,483	1.90	22.79
7/29/2011	1,896	110	12,513,600	0.4	2,042	1.6	24.38
10/25/2011	2,112	132	16,727,040	0.5	2,229	2.3	26.71
1/20/2012	2,088	110	13,780,800	0.4	2,042	1.8	28.46
TOTALS:	**33,458**		**247,235,280**			**28.46**	

Lab Data for Air Mitigation System B-6
First Quarter 2012
1/20/2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

B-6 (Lab Data)

Sample Date	Hours per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	µg/m3 PCE	Lbs. PCE removed	µg/m3 TCE	Lbs. TCE removed	µg/m3 VC	Lbs. VC removed	µg/m3 cis-1,2-DCE	Lbs. cis-1,2-DCE removed	Lbs. Total Pollutants Removed	Cumulative PCE lbs Removed	Cumulative Total Pollutant lbs Removed
3/27/2008	0.5	130	3,900	8,155	0.00	27	0.00	38	0.00	40	0.00	0.00	0.00	0.00
3/28/2008	24	119	171,144	3,330	0.04	27	0.00	38	0.00	40	0.00	0.04	0.04	0.04
4/24/2008	648	114	4,426,488	748	0.21	27	0.01	38	0.01	40	0.01	0.24	0.24	0.27
5/1/2008	168	123	1,234,800	1,427	0.11	27	0.00	38	0.00	40	0.00	0.12	0.35	0.39
6/2/2008	768	120	5,506,560	1,495	0.51	27	0.01	38	0.01	40	0.01	0.55	0.87	0.94
8/20/2008	1,896	120	13,651,200	1,835	1.56	27	0.02	38	0.03	40	0.03	1.65	2.43	2.59
9/12/2008	552	114	3,775,680	1,223	0.29	27	0.01	38	0.01	40	0.01	0.31	2.72	2.91
11/26/2008	1,800	112	12,096,000	748	0.56	27	0.02	38	0.03	40	0.03	0.64	3.28	3.55
3/24/2009	2,832	118	20,050,560	883	1.10	27	0.03	38	0.05	40	0.05	1.24	4.39	4.79
6/15/2009	1,992	118	14,103,360	571	0.50	27	0.02	38	0.03	40	0.03	0.59	4.89	5.38
8/21/2009	1,608	118	11,384,640	483	0.34	27	0.02	38	0.03	40	0.03	0.42	5.23	5.80
11/5/2009	1,824	118	12,913,920	748	0.60	27	0.02	38	0.03	40	0.03	0.69	5.83	6.49
2/5/2010	2,208	150	19,872,000	544	0.67	27	0.03	38	0.05	40	0.05	0.80	6.51	7.29
5/12/2010	2,304	93	12,856,320	883	0.71	26.93	0.02	38	0.03	40	0.03	0.79	7.22	8.08
7/23/2010	1,728	110	11,404,800	680	0.48	27	0.02	38	0.03	40	0.03	0.56	7.70	8.64
10/15/2010	2,016	130	15,724,800	129	0.13	27	0.03	38	0.04	40	0.04	0.23	7.83	8.87
1/21/2011	2,352	130	18,345,600	333	0.38	27	0.03	38	0.04	40	0.05	0.50	8.21	9.37
5/11/2011	2,640	130	20,592,000	415	0.53	27	0.03	38	0.05	40	0.05	0.67	8.74	10.04
7/29/2011	1,896	110	12,513,600	143	0.11	27	0.02	38	0.03	40	0.03	0.19	8.85	10.23
10/25/2011	2,112	110	13,939,200	170	0.15	27	0.02	38	0.03	40	0.03	0.24	8.89	10.47
1/20/2012	2,088	130	16,286,400	122	0.12	27	0.03	38	0.04	40	0.04	0.23	8.98	10.70
TOTALS:	**33,457**		**240,852,972**		**9.12**		**0.40**		**0.58**		**0.60**	**10.70**		

B-6 (PID Readings)

Sample Date	Hours Per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	PID Reading (ppm VOCs)	µg/m3 VOCs	Lbs. VOCs Removed	Cum Total lbs Removed (Est from PID)
3/29/2008	50	74	222,000	1.7	4,468	0.06	0.06
6/2/2008	1,560	130	12,168,000	1.1	3,349	2.54	2.60
8/20/2008	1,896	110	12,513,600	0.5	2,229	1.74	4.34
9/12/2008	552	130	4,305,600	0.1	1,483	0.40	4.74
11/26/2008	1,800	110	11,880,000	0.2	1,669	1.24	5.98
8/21/2009	6,432	110	42,451,200	0.1	1,483	3.93	9.90
11/5/2009	1,824	130	14,227,200	0.1	1,483	1.32	11.22
2/5/2010	2,208	150	19,872,000	0.9	2,975	3.69	14.91
5/12/2010	2,304	93	12,856,320	1.7	4,468	3.58	18.49
10/15/2010	3,744	130	29,203,200	0.5	2,229	4.06	22.55
1/21/2011	2,352	130	18,345,600	0.4	2,042	2.34	24.89
5/11/2011	2,640	130	20,592,000	0.2	1,669	2.14	27.03
7/29/2011	1,896	110	12,513,600	0.3	1,856	1.45	28.48
10/25/2011	2,112	110	13,939,200	0.5	2,229	1.94	30.42
1/20/2012	2,088	130	16,286,400	0.4	2,042	2.07	32.50
TOTALS:	**33,458**		**241,375,920**			**32.50**	

Lab Data for Air Mitigation System B-7
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1/20/2012
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7 (Lab Data)

Sample Date	Hours per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	µg/m3 PCE	Lbs. PCE removed	µg/m3 TCE	Lbs. TCE removed	µg/m3 VC	Lbs. VC removed	µg/m3 cis-1,2-DCE	Lbs. cis-1,2-DCE removed	Lbs. Total Pollutants Removed	Cumulative PCE lbs Removed	Cumulative Total Pollutant lbs Removed
4/7/2008	0.5	118	3,540	516	0.00	27	0.00	38	0.00	40	0.00	0.00	0.00	0.00
4/8/2008	24	118	169,920	319	0.00	27	0.00	38	0.00	40	0.00	0.00	0.00	0.00
4/24/2008	384	118	2,718,720	150	0.03	27	0.00	38	0.01	40	0.01	0.04	0.03	0.05
5/1/2008	168	120	1,209,600	265	0.02	27	0.00	38	0.00	40	0.00	0.03	0.05	0.08
6/2/2008	768	117	5,391,360	360	0.12	27	0.01	38	0.01	40	0.01	0.16	0.17	0.23
7/10/2008	912	118	6,456,960	367	0.15	27	0.01	38	0.02	40	0.02	0.19	0.32	0.42
9/12/2008	1,536	114	10,506,240	367	0.24	27	0.02	38	0.03	40	0.03	0.31	0.56	0.73
11/26/2008	1,800	112	12,096,000	381	0.29	27	0.02	38	0.03	40	0.03	0.37	0.85	1.10
3/24/2009	2,832	118	20,050,560	401	0.50	27	0.03	38	0.05	40	0.05	0.63	1.35	1.73
6/15/2009	1,992	118	14,103,360	34	0.03	27	0.02	38	0.03	40	0.03	0.12	1.38	1.85
8/21/2009	1,608	118	11,384,640	34	0.02	27	0.02	38	0.03	40	0.03	0.10	1.40	1.95
11/5/2009	1,824	118	12,913,920	34	0.03	27	0.02	38	0.03	40	0.03	0.11	1.43	2.06
2/5/2010	2,208	110	14,572,800	34	0.03	27	0.02	38	0.03	40	0.04	0.13	1.46	2.19
4/23/2010	1,848	130	14,414,400	34	0.03	27	0.02	38	0.03	40	0.04	0.13	1.49	2.32
7/23/2010	2,184	130	17,035,200	34	0.04	27	0.03	38	0.04	40	0.04	0.15	1.53	2.46
10/15/2010	2,016	130	15,724,800	34	0.03	27	0.03	38	0.04	40	0.04	0.14	1.56	2.60
1/21/2011	2,352	130	18,345,600	34	0.04	27	0.03	38	0.04	40	0.05	0.16	1.60	2.76
5/11/2011	2,640	130	20,592,000	34	0.04	27	0.03	38	0.05	40	0.05	0.18	1.64	2.94
7/29/2011	1,896	130	14,788,800	34	0.03	27	0.02	38	0.04	40	0.04	0.13	1.67	3.07
10/25/2011	2,112	152	19,261,440	34	0.04	27	0.03	38	0.05	40	0.05	0.17	1.71	3.23
1/20/2012	2,088	130	16,286,400	20	0.02	27	0.03	38	0.04	40	0.04	0.13	1.73	3.36
TOTALS:	**33,193**		**248,026,260**		**1.73**		**0.42**		**0.59**		**0.61**	**3.36**		

B-7 (PID Readings)

Sample Date	Hours Per Cycle	Average Flow Rate (CFM)	Air Vol. Removed per Cycle (CF)	PID Reading (ppm VOCs)	µg/m3 VOCs	Lbs. VOCs Removed	Cum Total lbs Removed (Est from PID)
6/2/2008	1,344	130	10,483,200	0.3	1,856	1.21	1.21
7/10/2008	912	110	6,019,200	0.5	2,229	0.84	2.05
9/12/2008	1,536	130	11,980,800	0.1	1,483	1.11	3.16
11/26/2008	1,800	110	11,880,000	0.2	1,669	1.24	4.40
8/21/2009	6,432	132	50,941,440	0.1	1,483	4.71	9.11
11/5/2009	1,824	130	14,227,200	0.0	1,296	1.15	10.26
2/5/2010	2,208	110	14,572,800	0.1	1,483	1.35	11.60
5/6/2010	2,160	130	16,848,000	0.0	1,296	1.36	12.97
10/15/2010	3,888	130	30,326,400	0.1	1,483	2.80	15.77
1/21/2011	2,352	130	18,345,600	0.1	1,483	1.70	17.47
5/11/2011	2,640	130	20,592,000	0.0	1,296	1.66	19.13
7/29/2011	1,896	130	14,788,800	0.3	1,856	1.71	20.84
10/25/2011	2,112	152	19,261,440	0.1	1,483	1.78	22.63
1/20/2012	2,088	130	16,286,400	0.1	1,483	1.51	24.13
TOTALS:	**33,192**		**256,553,280**			**24.13**	

Michigan Plaza
First Quarter 2012
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Cumulative Totals (B-1-B-4)

Sample Date	Lbs PCE Removed	Cumulative PCE lbs Removed	Lbs. Total Pollutants Removed	Cumulative Total Pollutant lbs Removed
9/21/2006	0.00	0.00	0.00	0.00
10/6/2006	2.36	2.36	2.43	2.43
10/13/2006	0.68	3.05	0.71	3.14
10/20/2006	0.98	4.03	1.01	4.14
11/17/2006	3.41	7.44	3.51	7.65
12/27/2006	4.52	11.95	4.67	12.32
3/30/2007	7.00	18.95	7.33	19.65
6/15/2007	4.64	23.59	6.55	26.20
10/16/2007	6.42	30.01	6.86	33.06
12/14/2007	5.31	35.33	5.53	38.59
3/27/2008	7.84	43.17	8.23	46.82
4/1/2008	1.20	44.36	1.25	48.07
6/2/2008	4.62	48.98	4.80	52.87
9/12/2008	8.69	57.67	9.05	61.92
11/26/2008	4.38	62.05	4.62	66.54
3/24/2009	7.64	69.69	8.02	74.55
6/15/2009	4.53	74.23	4.80	79.35
8/21/2009	3.90	78.13	4.14	83.49
11/5/2009	3.90	82.03	4.17	87.66
2/5/2010	1.90	83.93	2.24	89.90
4/23/2010	0.43	84.36	0.55	90.45
7/23/2010	1.58	85.94	1.85	92.30
10/15/2010	0.57	86.50	0.78	93.07
1/21/2011	0.59	87.09	0.82	93.89
4/8/2011	1.30	88.40	1.54	95.43
5/11/2011	2.51	90.91	2.80	98.24
7/29/2011	1.26	92.17	1.53	99.77
10/25/2011	0.97	93.15	1.27	101.04
1/20/2012	0.70	93.85	1.19	102.23

Michigan Apartments
First Quarter 2012
1/20/2012
Michigan Plaza
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Cumulative Totals (B-5-B-7)

Sample Date	Lbs PCE Removed	Cumulative PCE lbs Removed	Lbs. Total Pollutants Removed	Cumulative Total Pollutant lbs Removed
3/27/2008	0.00	0.00	0.00	0.00
3/28/2008	0.04	0.04	0.04	0.05
4/7/2008	0.00	0.04	0.00	0.05
4/8/2008	0.00	0.05	0.00	0.05
4/24/2008	0.34	0.39	0.42	0.47
5/1/2008	0.16	0.54	0.18	0.65
6/2/2008	0.77	1.31	0.87	1.52
7/10/2008	0.32	1.63	0.40	1.93
8/20/2008	1.56	3.19	1.65	3.58
9/12/2008	0.84	4.03	1.00	4.58
11/26/2008	1.22	5.25	1.46	6.04
3/24/2009	3.45	8.71	3.85	9.89
6/15/2009	0.89	9.60	1.17	11.06
8/21/2009	0.68	10.28	0.91	11.97
11/5/2009	1.37	11.64	1.62	13.59
2/5/2010	0.84	12.48	1.16	14.75
4/23/2010	0.09	12.58	0.27	15.02
7/23/2010	0.68	13.26	0.97	15.98
10/15/2010	0.26	13.52	0.57	16.55
1/21/2011	0.64	14.16	0.98	17.53
5/11/2011	1.08	15.24	1.49	19.02
7/29/2011	0.26	15.50	0.52	19.54
10/25/2011	0.40	15.90	0.73	20.27
1/20/2012	0.27	16.17	0.56	20.83

Cumulative Total LBS Removed
First Quarter 2012
1/20/2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
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Cumulative Totals (B-1-B-7)				
Sample Date	Lbs PCE Removed	Cumulative PCE lbs Removed	Lbs. Total Pollutants Removed	Cumulative Total Pollutant lbs Removed
9/21/2006	0.00	0.00	0.00	0.00
10/6/2006	2.36	2.36	2.43	2.43
10/13/2006	0.68	3.05	0.71	3.14
10/20/2006	0.98	4.03	1.01	4.14
11/17/2006	3.41	7.44	3.51	7.65
12/27/2006	4.52	11.95	4.67	12.32
3/30/2007	7.00	18.95	7.33	19.65
6/15/2007	4.64	23.59	6.55	26.20
10/16/2007	6.42	30.01	6.86	33.06
12/14/2007	5.31	35.33	5.53	38.59
3/27/2008	7.84	43.17	8.23	46.82
3/28/2008	0.04	43.21	0.04	46.87
4/1/2008	1.20	44.41	1.25	48.12
4/7/2008	0.00	44.41	0.00	48.12
4/8/2008	0.00	44.41	0.00	48.12
4/24/2008	0.34	44.75	0.42	48.54
5/1/2008	0.16	44.91	0.18	48.72
6/2/2008	5.38	50.29	5.67	54.39
7/10/2008	0.32	50.61	0.40	54.80
8/20/2008	1.56	52.18	1.65	56.45
9/12/2008	9.53	61.70	10.05	66.49
11/26/2008	5.60	67.30	6.08	72.57
3/24/2009	11.10	78.40	11.87	84.44
6/15/2009	5.42	83.82	5.97	90.41
8/21/2009	4.59	88.41	5.05	95.46
11/5/2009	5.26	93.67	5.79	101.25
2/5/2010	2.74	96.41	3.40	104.65
4/23/2010	0.52	96.93	0.82	105.47
7/23/2010	2.26	99.20	2.82	108.28
10/15/2010	0.83	100.02	1.34	109.63
1/21/2011	1.23	101.25	1.80	111.42
4/8/2011	1.30	102.55	1.54	112.96
5/11/2011	3.59	106.15	4.29	117.26
7/29/2011	1.52	107.67	2.05	119.31
10/25/2011	1.38	109.05	2.00	121.30
1/20/2012	0.97	110.02	1.75	123.06

APPENDIX C

Cumulative Low Flow Sampling Data

Appendix C
Low Flow Data
Quarter 1 - 2012
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No.: M01046

Well ID	Date	pH	Conductivity	Temperature (^oF)	Dissolved Oxygen (ug/L)	Oxygen Reduction Potential (mV)
MMW-1S	2/14/2012	6.76	1066	59.25	2024	71
MMW-8S	2/14/2012	7.00	970.1	59.83	140	-106
MMW-9S	2/13/2012	6.67	1671	61.78	103	-180
MMW-10S	2/14/2012	6.71	1730	61.25	169	-81
MMW-11S	2/14/2012	7.03	997.1	59.1	1601	70
MMW-11D	2/14/2012	7.03	997.5	59.62	266	40
MMW-12S	2/14/2012	6.95	1089	58.27	352	57
MMW-13D	2/14/2012	7.23	814.1	60.4	135	-82
MMW-14D	2/14/2012	7.16	815.2	56.48	793	-62
MMW-P-01	2/13/2012	6.77	1737	61.94	89	-200
MMW-P-02	2/13/2012	6.78	1285	54.7	1055	-5
MMW-P-03S	2/13/2012	6.83	924	60.54	171	-44
MMW-P-03D	2/13/2012	6.90	1158	59.78	200	-26
MMW-P-04	2/17/2012	6.81	694.8	59.00	990	-200
MMW-P-05	2/13/2012	6.99	822.8	59.87	112	-286
MMW-P-06	2/13/2012	6.90	1132	61.0	141	-213
MMW-P-07	2/13/2012	6.79	1754	61.43	541	-167
MMW-P-08	2/13/2012	6.68	1663	61.24	81	-220
MMW-P-09S	2/15/2012	6.95	786.3	54.70	2621	164
MMW-P-09D	2/15/2012	7.15	830.4	55.33	283	-103
MMW-P-10S	2/13/2012	6.90	653	58.9	112	-221
MMW-P-10D	2/13/2012	6.75	1233	59.22	210	-184
MMW-C-01	2/15/2012	6.98	780.0	60.80	1682	-31
MMW-C-02S	2/15/2012	6.83	747.9	57.59	156	27
MMW-168D	2/17/2012	6.89	1131	62.08	136	-174

ug/L - micrograms per liter

mV - millivolts