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October 31, 2009

Ms. Erin Brittain
Project Manager
Voluntary Remediation Program
Office of Land Quality
100 North Senate Avenue
Indianapolis, Indiana 46204

Re: **Quarterly Monitoring Progress Report – 1st Quarter 2009**
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana 46222
IDEM Incident # 0000198
IDEM VRP # 6061202
MUNDELL Project No. M01046

Dear Ms. Brittain:

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, to summarize further site characterization, remediation activities and quarterly monitoring performed from January 1 through March 31, 2009. The following sections provide detailed discussions of the results of this work. All activities were completed on schedule as discussed at the IDEM meeting on October 29th, 2008, and outlined in the *RWP Addendum I* dated November 6, 2008.

SOIL SAMPLING BENEATH MICHIGAN PLAZA - SOURCE AREA A

MUNDELL proceeded with additional site characterization beneath the Michigan Plaza building (3819 Michigan Street, Zacatecas Mexican grocery store) where the dry cleaning equipment had been formerly located. MUNDELL oversaw the advancement of ten (10) soil borings beneath the plaza building to define the extent of soil and groundwater impacts (**Figure 1**). The drilling inside the plaza building to collect soil samples beneath the area of the former Accent Cleaners was performed from February 3rd to February 5th, 2009 and in the Laundromat (3823 Michigan Street) space on Thursday, Feb 5th as they are closed on Thursdays.

During the completion of the soil borings, soil samples for characterization were collected continuously during each boring and classified by a MUNDELL geologist. A photo-ionization

detector was used to screen each soil sample at 1 ft intervals for total photoionizable vapors (TPVs).

Discreet soil samples for laboratory analysis were collected as per the protocol for sampling of soils for volatile organic compounds (VOCs), with the convention of analyzing at least one soil sample from each boring from the depth above the water table that exhibits the most likelihood of having soil contamination.

A mobile laboratory (Sierra Mobile Lab) was used for real time results which aided in delineating the extent of the soil impacts instantaneously. The laboratory produced Level IV QA/QC documentation. MUNDELL also oversaw drilling in the vicinity of the possible former dry cleaning machine location and proceeded radially out to define the extent of impacts. This enabled instantaneous turnarounds on soil/groundwater samples to be able to decide accordingly the subsequent CAP-18^{ME} injection locations.

The soil analytical results are demonstrated in **Table 3** and **Figure 3**. Pertinent soil boring logs are attached in **Appendix B**.

FURTHER DELINEATION OF SOIL IMPACTS - SOURCE AREA B

Soil borings were also advanced in Source Area B (**Figure 1**) for addressing the soil medium further and for additional characterization of contaminants emanating from the sewer line. The drilling in source area B was performed the week of February 9th, 2009.

Pursuant to the soil impacts documented in the sewer line excavation in October, 2007, MUNDELL oversaw advancement of four (4) soil borings surrounding the release area of the sewer which generated *Source Area B* to further define the extent of soil impacts in this area (**Figure 1**). The soil analytical results are demonstrated in **Table 3** and **Figure 3**.

FURTHER GROUNDWATER GEOPROBE SAMPLING

Shallow groundwater samples were collected at select boring locations for laboratory analytical testing using dedicated disposable plastic tubing placed inside the groundwater sampling probe.

The groundwater analytical results are demonstrated in **Table 4**.

ADDITIONAL CAP-18 INJECTION: SECOND ROUND

The overall results from ‘Round 1’ of CAP-18 injection performed in August 2007 were encouraging; this second booster round of injection was scheduled to aggressively treat with another round of injection some areas where the chemical concentrations are stable or just slowly decreasing. The second round of CAP-18 injection (February 2009) proceeded in the following steps:

- 1) MUNDELL finalized the plan for drilling inside the Mexican store and the second round of CAP-18^{ME} injection while communicating with GenNx representatives (the current Michigan Plaza property owner), the Mexican store and laundromat leasees as appropriate.
- 2) The product was lined-up at the Site just-in-time for injection.
- 3) CAP-18^{ME} was delivered in 55-gallon drums to be able to store indoors (at 3817 West Michigan space for weather considerations) upon approval from GenNx.
- 4) Utilities' clearance was obtained at all the drilling/injection locations prior to drilling.
- 5) Concrete coring and carpenter services were utilized as needed prior to drilling inside the Mexican store.
- 6) CAP-18^{ME} injection took place inside the Mexican store and the Laundromat (*Source Area A*), followed by outside in the plaza parking lot (*Source Area B*), and west of Michigan Meadows Apartments Building No. 1 (*Source Area C*).
- 7) A total of **16,575 lbs** of the product was successfully injected via 33 injection points.
- 8) The CAP-18 loadings proceeded as follows in each of the source areas:
 - a) *Source Area A* (inside the Mexican store): 3,000 lbs were injected via six injection points.
 - b) *Source Area B* (Plaza parking lot): 4,500 lbs were injected via nine injection points.
 - c) *Source Area C* (area north of Michigan Street, west of Apt Building 1): 9,000 lbs were injected via 18 injection points
- 9) The site was brought to pre-conditions after injection.

The injection logs indicating the distribution of product at each of the injection locations is attached in **Appendix C**.

Soil and shallow groundwater analysis was performed utilizing the mobile lab, results were evaluated, and injection was performed at the Site accordingly. The amount and distribution of CAP18^{ME} needed for each *Source Area* was designed taking several factors into account as well as the practical experience of the manufacturers of CAP18^{ME}, DBI Remediation Products, Inc, (DBI). The amount of CAP18^{ME} to inject into the chemical *Source Areas* was determined based upon prior injection experience (August 2007) at the Site as to the maximum product volume that the aquifer could take per injection location (500 lbs), and also based on the indicator compound chemical concentrations.

The injection spacing for the selected design was largely determined by the aquifer's ability to receive the product. An injection spacing of 10 ft on centers is considered very effective for the sands encountered at the Site, with normal curtain 'rows' stacked two deep for each curtain area. Curtain areas were generally aligned along impacts or perpendicular to either the plume or parallel with building walls that controlled injection accessibility. Injection points along each curtain row were spaced approximately 10 feet apart, with adjustments between rows to allow the most even distribution of vector lines downgradient from injection points. This configuration

was designed to provide the most thorough coverage per *Source Area*. This design accounted for injecting the CAP18^{ME} conservatively throughout a 20 feet thickness in the upper saturated zone at each injection point.

Some field design adjustments to the injection distribution were made as the injection applications began in February 2009. These adjustments included:

- 1) Introduction of the CAP18^{ME} into the aquifer at 3-foot depth intervals.
- 2) Injection of the CAP18^{ME} throughout the sand and gravel aquifer down into the top of the underlying silty clay glacial till, which acts as a barrier to further vertical groundwater movement.
- 3) Injection of a greater dose of CAP18^{ME} into the upper 10 to 12 ft of the saturated zone as compared to greater depths. This placed the greatest mass of the product in the most impacted zone of the aquifer. This also allowed for a longer period of activity from the presence of CAP18TM and its fatty acids in those areas, increasing their effectiveness. Thus, larger masses of CAP18^{ME} injection loading were distributed in the more impacted zones of the aquifer in each *Source Area* plume to ensure the most longstanding availability of hydrogen for reductive dechlorination. **Figure 1** shows the final injection design layout and loading. CAP-18 injection logs attached in **Appendix C** summarize the vertical distribution of product in each of the borings.

SEWER SAMPLING

Follow-up sewer line investigation was also performed on March 18, 2009 by collecting liquid samples from four different sewer locations running along Michigan Street, which are summarized in **Table 6** and **Figure 18**.

INDOOR AIR MONITORING

On February 26th and 27th, indoor air samples (taken via summa canisters) were collected at four tenant units at Michigan Plaza (Village Pantry (3801), Vacant Handicapped space (3815), Mexican Grocery store (3819) and the Laundromat (3823)) with the air mitigation systems on, and at four apartments (Basement Apt. 101 (Building No. 1), Basement Apt. 602 (Building No. 6), Basement Apt. 1001 (Building No. 10), and Apt No. 109 (Second Floor, Building No. 1 (prior highest concentration))).

Indoor air samples (via summa canisters) were also collected at two more tenant units at Michigan Plaza (Alcoholics Anonymous (3817), and the vacant library space (3805) on March 17th, 2009, since the 3817 space is now periodically occupied and the 3805 space is potentially going to be leased out in the near future.

Tables 7a, 7b, 7c and 7d present the air sampling results for Michigan Plaza, Michigan Apartments, soil gas monitoring wells and the health based limits in air respectively. **Figure 4** demonstrates the recent and historical air analytical results.

GROUNDWATER MONITORING NETWORK SAMPLING

On March 16th-18th, 2009, quarterly groundwater sampling of the existing twenty-four (24) monitoring wells established with IDEM, and the two (2) additional monitoring wells on the Floral Park Cemetery property was performed. The following constitute this quarterly groundwater monitoring network:

- 1) *Twenty-four MUNDELL monitoring wells:* MMW-1S, MMW-8S, MMW-9S, MMW-10S, MMW-11S, MMW-11D, MMW-12S, MMW-13D, MMW-14D, 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, and MMW-C-01 and MMW-C-02 (MUNDELL wells on Floral Park Property)
- 2) *Two (2) Keramida monitoring wells:* MW-168S and MW-168D.

In addition to collection of groundwater levels from each of the above mentioned monitoring wells, MUNDELL measured static groundwater elevations via an electric oil/water interface probe from four nests of Keramida monitoring wells surrounding the Plaza Property for the purpose of more accurately determining the groundwater flow direction and gradient over this wider area. The following additional wells had their groundwater levels measured this quarter:

- 1) *Eight (8) Keramida monitoring wells:* MW-167S, MW-167D, MW-169S, MW-169D, MW-170S, MW-170D, MW-171S and MW-171D.

During this investigation, monitoring well MMW-P-04 was found to contain approximately 10-inches of CAP-18 oil at the top of the water table. All monitoring well sampling, survey and construction data are provided in **Tables 1, 2 and 2a**, respectively, and the potentiometric map is illustrated in **Figure 2**.

The wells were sampled utilizing a ‘Sample Pro Portable MicroPurge Pump’ for uniform low-flow purging and sample collection. This microPurge pump uses a quick-change, one-piece bladder design, and can be connected to a Troll 9500 multi-parameter meter with an inline flow cell. This flow cell 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 as evidence of conditions naturally conducive to natural attenuation existing in the aquifer. The pump is decontaminated between wells and the bladders are disposed of after sampling each well.

All excess purge water was transported to 55-gallon drums located at the Site for proper disposal.

As agreed in the October 29th, 2008 meeting with IDEM, and detailed in the *RWP Addendum* November 2008, groundwater samples were submitted to Pace Analytical Laboratories (Pace) in Indianapolis, Indiana for the shorter list of VOC analysis via U.S. EPA SW-846 Method 8260, along with appropriate duplicate (DUP), matrix spike (MS) and matrix spike duplicate (MSD). 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**.

Baseline groundwater geochemical parameters (pH, dissolved oxygen, oxidation-reduction potential, conductivity, and temperature) were measured with a low-flow cell and multi-parameter water quality probe in the post-injection period to evaluate whether aquifer conditions continue to be favorable for natural attenuation of the indicator compounds at the Site.

Additional aquifer chemical parameter testing has been performed in the past and will be scheduled based on observed response and development in each plume area going forward. Additional aquifer parameters including methane, ethene, and ethane are periodically analyzed to evaluate indicator compound breakdown and redox-sensitivity. In addition, volatile fatty acids (VFA) will also be tested periodically to evaluate substrate distribution and lifetime duration of the product. These samples will be collected in select monitoring wells representative of each plume to monitor the presence of residual CAP 18TM in the aquifer and to provide additional monitoring of aquifer conditions. Future monitoring of these constituents will be performed as needed to evaluate the natural attenuation process.

It should be noted that the complete monitoring well network (a total of 40 monitoring wells including other wells on the Michigan Meadows Apartments property and other selected Keramida wells) will be sampled annually, as discussed with IDEM.

All excess purge water was transported to 55-gallon drums located at the Site for proper disposal.

All soil cuttings generated during the drilling of the permanent monitoring wells and groundwater pumped out of the wells during well development were placed in 55-gallon drums located at the Site for later disposal. In accordance with IDEM guidelines, the contents in each drum were then identified with a label describing them as non-hazardous materials.

INVESTIGATION AND REMEDIATION RESULTS

Further Soil Delineation

Seven (7) soil borings were advanced in February 2009 beneath the plaza building as discussed in the *RWP Addendum I, November 6, 2008*. Five (5) out of the seven (7) borings demonstrated indicator compound concentrations in soil both below the IDCLs and the RDCLs. Slight exceedances to the RDCLs for PCE were observed at boring locations SB-3, SB-4, SB-6, locations (**Table 3**), but all concentrations were below the IDCL. Soil boring SB-3 (Mexican store dining area) exhibited a PCE concentration that slightly exceeded the IDCL (6.09 and 3.6 mg/kg at the depths of 11 to 12 feet and 16 to 17 feet bgs, respectively). Soil boring SB-4 also exhibited a PCE concentration that slightly exceeded the IDCL (8.43 mg/kg at the depth of 16 to 17 feet bgs).

PCE impacts in the soil above IDCLs appear to be localized in the southern portion of the Mexican store space at depths in the vicinity of the groundwater table.

Three (3) soil borings (SB-8, SB-9 and SB-10) were advanced on the south side of the plaza building. Slight exceedances to the RDCLs for PCE were observed at boring locations SB-8 and SB-10 locations; all the indicator compound concentrations in soil were below IDCLs. This is consistent with previous soil sampling that had been completed south of the Plaza building.

Seven (7) soil borings were also advanced in *Source Area B* as discussed in the *RWP Addendum I, November 6, 2008*. Six (6) out of the seven (7) boring demonstrated indicator compound concentrations in soil above the IDCLs. Most of the impacts were noted just downgradient of the sewer joints (e.g., in borings SB-12 and SB-13 downgradient of the sewer joint south of Michigan Street and in SB-14 and SB-17 just downgradient of the sewer joint north of Michigan Street as shown on **Figure 3**).

Groundwater Analytical Results – Quarterly Monitoring

Groundwater analytical testing results are summarized in **Table 4** and presented on **Figure 5**. Only one (1) out of the twenty-six (26) monitoring wells sampled this quarter (MMW-1S) showed PCE concentrations exceeding the IDEM RISC Industrial Default Closure Level (IDEM RISC IDCL). Five (5) monitoring wells (MMW-P-01, MMW-P-02, MMW-P-03S, MMW-P-04, and MMW-P-10S) demonstrated PCE concentrations exceeding the IDEM RISC Residential Default Closure Level (IDEM RISC RDCL) but below the IDCL. The historical indicator compounds trends in groundwater are presented in **Figure 16**.

None of the monitoring wells showed TCE concentration exceeding the IDEM RISC IDCL, and four (4) monitoring wells (MMW-P-01, MMW-1S, MMW-P-04, and MMW-P-10S) had samples that exceeded the RDCL, but below the IDCL.

Five (5) monitoring wells (MMW-9S, MMW-P-01, MMW-P-08, MMW-P-10S, MMW-P-10D) showed cis-1,2-DCE concentrations exceeding the IDEM RISC IDCL. Ten (10) monitoring wells (MMW-8S, MMW-10S, MMW-11D, MMW-13D, MMW-14D, MMW-P-03S, MMW-P-04, MMW-P-06, MMW-P-07, and MMW-C-01) exhibited cis-1,2-DCE concentrations exceeding the RDCL, but below the IDCL.

Thirteen (13) monitoring wells (MMW-8S, MMW-9S, MMW-10S, MMW-13D, MMW-14D, MMW-P-01, MMW-P-02, MMW-P-03S, MMW-P-03D, MMW-P-07, MMW-P-08, and MMW-P-10S) showed vinyl chloride concentrations exceeding the IDEM RISC IDCL. One (1) monitoring well (MMW-11D) exhibited vinyl chloride concentrations exceeding the RDCL, but below the IDCL.

The recently installed deep monitoring wells MMW-13D, MMW-14D exhibited significant cis-1,2-DCE and vinyl exceedances above the IDCLs during this quarter (**Figure 5**). Since these wells have been purposefully located upgradient of *Source Areas B* and *C*, the impacts observed in these areas demonstrate groundwater impacts that are attributable to other upgradient, off-site sources and not to Michigan Plaza. As seen on **Figure 5**, the indicator compound concentrations at these deep, upgradient wells 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 aquifer at the Site.

In-Situ Bioremediation Progress

Based upon the 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 CAP18TM (an enhanced, food-grade vegetable oil product), followed by Monitored Natural Attenuation (MNA) is the selected remediation technology for the Site for treating groundwater, as detailed in the RWP. The initial CAP18TM injection was performed in all 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* that upon migration downgradient in the direction of groundwater flow, are expected to remediate the most significant groundwater impacts. A booster CAP-18ME injection was performed in February 2009 to aggressively treat some areas where the chemical concentrations have begun to stabilize or are decreasing at a slow rate.

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 vinyl chloride concentrations are developed for the following monitoring wells:

Source Area A: MMW-P-03D

Source Area B: MMW-P-01, MMW-P-07, MMW-P-08, and MMW-8S

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

Figures 17 and 18 illustrate the changes in the chlorinated solvents concentrations demonstrating reductive dechlorination as a result of the CAP-18 remediation implementation. To illustrate the effect of the CAP-18 injection on hydrocarbon concentrations, injection dates are included on the graphs.

PCE impacts in the **Source Area A** (MMW-P-03D) appear to have a decreasing trend, and although the cis-1,2-DCE showed a slight decreasing trend, the vinyl chloride demonstrated an increasing trend after the second round of CAP-18 injection in February 2009. This is indicative of continued reductive dechlorination in this area (indicating further breakdown of parent compounds) in *Source Area A*.

PCE impacts in the **Source Area B** (MMW-P-01, MMW-P-07, MMW-P-08, MMW-8S) have significantly decreased with corresponding increases then decreases in the cis-1,2-DCE and vinyl chloride concentrations in MMW-P-08 and MMW-8S after the CAP-18 injection. A slight increase in the PCE, cis-1,2-DCE, and vinyl chloride concentrations was noted in MMW-P-01 for this quarter. Decreasing concentrations of PCE and cis-1,2-DCE in MMW-P-07 were observed with an increase in vinyl chloride this quarter indicating a continued breakdown sequence is occurring. There was a slight increase in the PCE concentration in monitoring well MMW-8S immediately after injection during the fourth quarter of 2007, followed by a decreasing trend during 2008 and 2009. A spike in cis-1,2-DCE and vinyl chloride concentrations occurred after the first injection, following by decreasing cis-1,2-DCE trends and stable vinyl chloride trends up to the 2nd injection event.

PCE impacts in the **Source Area C** (MMW-1S, MMW-9S, and MMW-10S) appear to have a decreasing trend. Vinyl chloride and cis-1,2-DCE concentrations in MMW-1S decreased for this quarter. In wells MMW-9S and MMW-10S, vinyl chloride and cis-1,2-DCE concentrations showed an upward trend. This is indicative of continued reductive dechlorination in *Source Area C*.

Thus, an overall decreasing trend in PCE and TCE concentrations (in some areas achieving nondetectable concentrations), and an increase in the daughter product concentrations (indicating breakdown of parent compounds via reductive dechlorination) has occurred significantly since the 1st CAP-18 injection in the *Source Areas A, B and C* in August 2007.

This second round of CAP-18^{ME} injection (February 2009) would allow for PCE concentrations to be reduced more effectively in areas that still contain higher levels of chlorinated hydrocarbons. This booster injection was conducted in *Source Area C* (west - southwest of Apartment Building No. 1, *Source Area B* (plaza parking lot), and *Source Area A* (beneath the

plaza building during soil sampling activities) as illustrated in **Figure 1** to further remediate the plumes. Changes in concentrations resulting from this next round of injections will be able to be evaluated better over the next several quarters.

Sewer Liquid Sampling Results – March 2009

Investigation activities performed by MUNDELL in the past have concluded that historical releases of PCE into the subsurface in the vicinity of the former Accent Cleaners unit, and periodic discharges of facility wastewaters to the sanitary sewer system have dispersed the solvents into the subsurface along points in this sewer system, including areas in the southeast portion of the Apartments. Follow up sewer line investigation performed by collecting liquid samples from four different sewer locations running along Michigan Street (summarized in **Table 6 and Figure 18**) indicate that the indicator compounds concentrations have reduced compared to previous levels. However, the most recent sampling yielded a higher detection level by the laboratory, so determination of levels is somewhat masked. A followup sampling will occur in the next two quarters to confirm concentrations in the sewer.

For further soil impact characterization in *Source Area B*, shallow soil borings were advanced in close proximity of the sewer line in the area as previously described.

Indoor Air Sampling Results - 2009

Significantly reduced indoor air concentrations (Apts Building No. 1, Plaza 3815 space, Mexican store space) below or slightly above the IDEM new draft April 2006 target levels are illustrated in attached **Figure 4**. Also, reduced concentrations were noted in the soil gas monitoring wells (MGW-1 and MGW-3) indicating COCs are being remediated in the area. **Table 7d** presents the U.S. EPA and IDEM screening/target levels.

The indoor air results at the Village Pantry, Mexican store and the Laundromat are all below both IDEM and U.S. EPA action levels (with the vapor mitigation systems running). This is consistent with testing over the past year or two in the Plaza spaces where mitigation systems have been installed.

Indoor air concentrations have dramatically reduced in the 3817 Michigan Street location (currently Alcoholics Anonymous) and the 3805 Michigan Street space (Old Library space, unoccupied). Please note that these spaces DO NOT have vapor mitigation systems in place. This is a very positive development demonstrating that site remedial activities have been successful in significantly reducing the indoor air impacts (see attached **Figure 4**). The PCE concentrations in both these spaces are below U.S. EPA action levels, and slightly exceed the IDEM occupational vapor intrusion action level (6.8 ug/m3). The old library space is currently unoccupied, and the AA space is used only occasionally for meetings. A follow up test will be conducted in the upcoming quarters.

One of the Michigan Meadows Apartment building basement apartments (Apt No. 1001) and one of the second floor apartment (Apt No. 108) also exhibited slight exceedances to IDEM action levels. These will be re-sampled in order to verify this data. It should be noted that all the indoor air concentrations have been compared to the most conservative (25 or 30 year exposure) IDEM action levels. The basement apartment is presently unoccupied with no exposure, and Apt No.108 residents have been living at that location much less than a 25 or 30 years duration.

The soil gas monitoring well (MGW-5) in the middle of the plaza parking lot will also be sampled in June 2009. It showed a spike in the contaminant concentrations during the March 2009 sampling round which could be attributed to subsurface changes resulting from the 2nd CAP-18 injection event in February 2009. The soil gas well MGW-5, in the middle of the plaza parking lot, shows impacts exceeding some of the IDEM soil gas screening levels (worst case conditions with an exposure duration of 25 years). This duration of exposure is a very conservative comparison, as this location has only been a parking lot since the development of the land. Furthermore, the nearest inhabited indoor spaces are all currently being addressed with air mitigation systems; therefore, exposure pathways are significantly being reduced. MUNDELL will sample this gas well (MGW-5) again in June 2009 along with the next quarterly groundwater sampling round, to monitor soil gas trends in this area, particularly since it is located in the heart of *Source Area B*. MUNDELL anticipates these levels have been introduced from the previously existing groundwater plume in *Source Area B* which is currently undergoing dechlorination via the CAP-18 remediation.

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 Handicap Space (B2), 3) the Mexican Store (B3), and 4) the Laundromat (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 in **Figure 6**.

Since the time of installation, system stack air samples were collected weekly for a few weeks followed by bi-weekly sampling for a month, monthly for a quarter 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 7 through 15**. The associated calculations are provided in **Appendix D**.

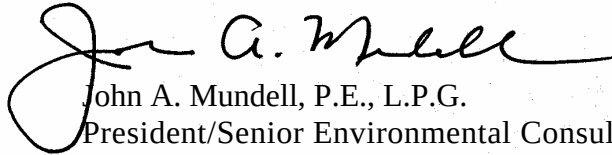
We appreciate the opportunity to update IDEM on the progress of remedial activities and monitoring at the Site. If you have any questions, please don't hesitate to contact us at (317) 630-9060 or via email (jmundell@MundellAssociates.com; llothe@MundellAssociates.com).

Sincerely,

MUNDELL & ASSOCIATES, INC.



Leena A. Lothe
Project Environmental Engineer



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

Attachments: Tables
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 Appendices

cc: Mr. Stephen Evanoff, AIMCO

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APPENDICES

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TABLES

Table 1
Tabulated Water Level Measurements
Quarter 1 (2009)
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)	Depth To Water (feet)	Groundwater Elevation (feet MSL)
On-Site Monitoring Wells					
MMW-P-01	3/17/2009	715.79	28	19.09	696.70
MMW-P-02	3/17/2009	716.70	30	20.19	696.51
MMW-P-03S	3/17/2009	716.55	28	20.05	696.50
MMW-P-03D	3/17/2009	716.45	35	19.94	696.51
MMW-P-04*	3/18/2009	716.27	28	19.76	696.51
MMW-P-05	3/17/2009	716.12	28	19.52	696.60
MMW-P-06	3/17/2009	716.50	28	19.91	696.59
MMW-P-07	3/17/2009	715.30	28	18.10	697.20
MMW-P-08	3/17/2009	715.22	28	17.99	697.23
MMW-P-10S	3/17/2009	714.59	28	17.82	696.77
MMW-P-10D	3/17/2009	714.98	38	18.21	696.77
Off-Site Monitoring Well (Cemetery ROW)					
MMW-P-09D	3/17/2009	715.21	45	19.62	695.59
MMW-P-09S	3/17/2009	715.36	28	18.02	697.34
Off-Site Monitoring Wells (Keramida)					
MW-168S	3/17/2009	714.79	22	17.97	696.82
MW-168D	3/17/2009	714.71	31	17.89	696.82
Off-Site Monitoring Wells (Michigan Meadows Apartments)					
MMW-1S	3/16/2009	713.66	20	16.17	697.49
MMW-8S	3/16/2009	714.75	24	16.92	697.83
MMW-9S	3/16/2009	714.09	25	17.06	697.03
MMW-10S	3/16/2009	713.23	25	16.17	697.06
MMW-11S	3/16/2009	713.69	33	15.95	697.74
MMW-11D	3/16/2009	713.64	33	16.02	697.62
MMW-12S	3/16/2009	712.82	24	15.18	697.64
MMW-13D	3/16/2009	713.53	50	NA	NA
MMW-14D	3/18/2009	712.61	50	14.95	697.66
* This GW elevation has been corrected due to 3.77 feet of product in the well.					
MW 171S	3/17/2009	711.83	37	15.71	696.12
MW 171D	3/17/2009	711.88	25	16.09	695.79
MW 169S	3/17/2009	715.95	49	19.99	695.96
MW 169D	3/17/2009	715.23	22	20.01	695.22
Off-Site Monitoring Well (Cemetery ROW)					
MMW-C-01	3/17/2009	715.36	28	19.47	695.89
MMW-C-02	3/17/2009	715.21	45	18.89	696.32

* This well has been corrected for 3.77 of cap 18 (density of 0.96) oil in well

Table 2
Monitoring Well Construction Summary
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No. M01046

Monitoring Well	Date Installed	Date of Water Level	*Top of Casing Elevation (feet MSL)	Total Depth (feet)	Screened Interval (feet)	Depth To Water (feet)	Groundwater Elevation (feet MSL)
MMW-P-01	09/28/05	9/19/07	715.79	28.00	18.00 - 28.00	19.69	696.10
MMW-P-02	09/27/05	9/19/07	716.70	30.00	20.00 - 30.00	20.90	695.80
MMW-P-03S	09/26/05	9/19/07	716.55	28.00	18.00 - 28.00	20.79	695.76
MMW-P-03D	09/27/05	9/19/07	716.45	35.00	25.00 - 35.00	20.63	695.82
MMW-P-04	09/26/05	9/19/07	716.27	28.00	18.00 - 28.00	20.49	695.78
MMW-P-05	09/26/05	9/19/07	716.12	28.00	18.00 - 28.00	20.14	695.98
MMW-P-06	09/28/05	9/19/07	716.50	28.00	18.00 - 28.00	20.57	695.93
MMW-P-07	01/11/07	9/19/07	715.30	28.00	18.00 - 28.00	18.84	696.46
MMW-P-08	01/11/07	9/19/07	715.22	28.00	18.00 - 28.00	18.61	696.61
MMW-P-09S	01/29/07	9/19/07	715.36	28.00	18.00 - 28.00	20.17	695.19
MMW-P-09D	05/31/07	9/19/07	715.21	45.00	35.00 - 45.00	20.35	694.86
MMW-P-10S	06/01/07	9/19/07	714.59	28.00	18.00 - 28.00	18.30	696.29
MMW-P-10D	06/01/07	9/19/07	714.98	38.00	28.00 - 38.00	18.69	696.29

Note: The top of casing elevation for each well was determined assuming a surveyed top of casing elevation of 712.54 ft elevation given in the Keramida Phase II Investigation Report dated March 2002 for well MW-165S (located along Michigan Meadows Apartments northern property line) and a surveyed top of casing elevation of 711.88 ft for well MW-171D located east-southeast of Michigan Plaza on Olin Avenue.

Table 2a
Monitoring Well Construction Summary
Michigan Apartments
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No. M01046

Monitoring Well	Date Installed	Date of Water Level	*Top of Casing Elevation (feet MSL)	Total Depth (feet)	Screened Interval (feet)	Depth To Water (feet)	Groundwater Elevation (feet MSL)
MMW-1S	8/20/04	9/19/07	713.66	20.00	10.00 - 20.00	16.36	697.30
MMW-8S	1/11/07	9/19/07	714.75	24.00	14.00 - 24.00	17.41	697.34
MMW-9S	1/12/07	9/19/07	714.09	25.00	15.00 - 25.00	17.45	696.64
MMW-10S	1/12/07	9/19/07	713.23	25.00	15.00 - 25.00	16.17	697.06
MMW-11S	5/31/07	9/19/07	713.69	33.00	23.00 - 33.00	16.43	697.26

Note: The top of casing elevation for each well was determined assuming a surveyed top of casing elevation of 712.54 ft elevation given in the Keramida Phase II Investigation Report dated March 2002 for well MW 165S (located along Michigan Meadows Apartments northern property line) and a surveyed top of casing elevation of 711.88 ft for well MW-171D located east-southeast of Michigan Plaza on Olin Avenue.

Table 3
Soil Analytical Results
Nov-Dec 2008 Well Installation & Feb 2009 Delineation
Michigan Plaza
Indianapolis, Indiana
MUNDELL Job No.: M01046

Sample ID (Depth)	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		mg/kg					
MMW-11S (8-10')	11/21/2008	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057	<0.0057
MMW-12S (10-12')	11/24/2008	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055
MMW-13D (6-8')	11/21/2008	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052
MMW-14D (6')	12/10/2008	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006
SB-1 (6-7)	2/3/2009	0.010	<0.005	<0.005	<0.005	<0.005	<0.002
SB-1(11-12)	2/3/2009	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
SB-1 (14-15)	2/3/2009	0.012	<0.005	<0.005	<0.005	<0.005	<0.002
SB-2 (7-8)	2/3/2009	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
SB-2 (11-12)	2/3/2009	0.006	<0.005	<0.005	<0.005	<0.005	<0.002
SB-2 (15-16)	2/3/2009	0.017	<0.005	<0.005	<0.005	<0.005	<0.002
SB-3 (2-3)	2/3/2009	0.071	<0.005	<0.005	<0.005	<0.005	<0.002
SB-3 (11-12)	2/3/2009	6.09	<0.005	<0.005	<0.005	<0.005	<0.002
SB-3(15-16)	2/3/2009	3.60	<0.005	<0.005	<0.005	<0.005	<0.002
SB-4 (6-7)	2/3/2009	0.061	<0.005	<0.005	<0.005	<0.005	<0.002
SB-4 (10-11)	2/3/2009	0.118 E	<0.005	<0.005	<0.005	<0.005	<0.002
SB-4 (16-17)	2/3/2009	8.43	<0.005	<0.005	<0.005	<0.005	<0.002
SB-5 (3-4')	2/5/2009	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059
SB-5 (9-10')	2/5/2009	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061
SB-5 (15-16')	2/5/2009	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054
SB-6 (5-6')	2/5/2009	0.0059	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053
SB-6 (7-8')	2/5/2009	0.0065	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052
SB-6 (14-15')	2/5/2009	0.0264	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059
SB-7 3-4	2/4/2009	0.009	<0.005	<0.005	<0.005	<0.005	<0.002
SB-7 10-11	2/4/2009	0.010	<0.005	<0.005	<0.005	<0.005	<0.002
SB-7 15-16	2/4/2009	0.010	<0.005	<0.005	<0.005	<0.005	<0.002
SB-8 (5-6')	2/16/2009	0.02	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052
SB-8 (12-13')	2/16/2009	0.0739	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051
SB-8 (15-16')	2/16/2009	0.168	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052
SB-9 (6-7')	2/16/2009	0.0065	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052
SB-9 (15-16')	2/16/2009	0.0183	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052
SB-9 (12-13')	2/16/2009	0.0104	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052
SB-10 (4-6')	2/17/2009	0.0181	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052
SB-10 (8-10')	2/17/2009	0.0234	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052
SB-10 (14-16')	2/17/2009	0.0858	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052
SB-11 (5-6)	2/13/2009	3.89	0.0253	<0.0052	<0.0052	<0.0052	<0.0052
SB-11 (8-9)	2/13/2009	4.32	0.034	<0.0052	<0.0052	<0.0052	<0.0052
SB-11 (12-13))	2/13/2009	7.69	0.0364	0.0067	<0.0053	<0.0053	<0.0053
SB-12 (13-14)	2/13/2009	6.29	0.0359	0.0123	<0.0052	<0.0052	<0.0052
SB-12 (17-18)	2/13/2009	19.1	0.0849	0.0458	<0.0053	<0.0053	<0.0053
SB-12 (18-19)	2/13/2009	53.4	0.154	1.66	0.0154	<0.0054	0.0378
SB-13 (9-10)	2/13/2009	1.41	0.0452	0.0325	<0.0055	<0.0055	<0.0055
SB-13 (10-11)	2/13/2009	1.64	0.0557	0.0458	<0.0054	<0.0054	<0.0054
SB-13 (17-18)	2/13/2009	55	0.105	0.831	0.0081	<0.0055	0.246
SB-14 (13-14)	2/13/2009	21	0.0135	0.0086	<0.0054	<0.0054	<0.0054
SB-14 (16-17)	2/13/2009	31.6	0.0154	0.0073	<0.0053	<0.0053	<0.0053
SB-14 (17-18)	2/13/2009	41.1	0.0276	<0.0058	<0.0058	<0.0058	<0.0058
SB-15 (4-6')	2/17/2009	0.11	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054
SB-15 (8-10')	2/17/2009	0.13	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052
SB-15 (12-14')	2/17/2009	7.64	0.0117	<0.0052	<0.0052	<0.0052	<0.0052
SB-16 (4-6')	2/17/2009	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058
SB-16 (8-10')	2/17/2009	0.011	<0.0056	<0.0056	<0.0056	<0.0056	<0.0056
SB-16 (12-14')	2/17/2009	0.091	0.0088	0.0304	<0.0054	<0.0054	<0.0054
SB-17 (4-6')	2/17/2009	0.0772	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058
SB-17 (10-12')	2/17/2009	10.5	0.0096	<0.0055	<0.0055	<0.0055	<0.0055
SB-17 (12-14')	2/17/2009	30.6	0.0158	<0.0053	<0.0053	<0.0053	<0.0053
IDEM RISC Default Industrial Cleanup Level		0.64	0.082	6	14	1	0.013
IDEM RISC Default Residential Cleanup Level		0.058	0.057	0.4	0.68	0.47	0.013

Note:

All Values Over IDEM RISC Industrial Default Cleanup Level shown in **RED**
 All Values Over IDEM RISC Residential Default Cleanup Level shown in **BLUE**
 PCE = Tetrachloroethene; TCE = Trichloroethene; cis-1,2-DCE = cis-1,2-Dichloroethene; trans-1,2-DCE = trans-1,2-Dichloroethene

Table 4
Monitoring Well Groundwater Analytical Results
Quarter 1 (2009)
Michigan Plaza
Indianapolis, Indiana
MUNDELL Job No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Monitoring Wells (Apts)							
MMW-1S	3/16/2009	199	11.3	<5.0	<5.0	<5.0	<2.0
MMW-8S	3/16/2009	<5.0	<5.0	95	<5.0	<5.0	348
MMW-9S	3/16/2009	<50.0	<50.0	7,490	73.8	<5.0	1,800
MMW-10S	3/16/2009	<5.0	<5.0	302	<5.0	<5.0	114
MMW-11S	3/16/2009	<5.0	<5.0	37.6	<5.0	<5.0	<2.0
MMW-11D	3/16/2009	<5.0	<5.0	288	20.1	<5.0	2.2
MMW-12S	3/16/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-13D	3/16/2009	<5.0	<5.0	699	6.6	<5.0	25.4
MMW-14D	3/18/2009	<5.0	<5.0	454	9.9	<5.0	70
Monitoring Wells (Plaza)							
MMW-P-01	3/17/2009	17.5	22.6	12,300	143	<5.0	3,290
MMW-P-02	3/17/2009	23.4	<5.0	65.4	5.3	<5.0	68.4
MMW-P-03S	3/17/2009	7.5	<5.0	904	38.7	<5.0	283
MMW-P-03D	3/17/2009	<5.0	<5.0	65.2	<5.0	<5.0	69.8
MMW-P-04	3/18/2009	19.4	5.4	304	10.8	<5.0	<2.0
MMW-P-05	3/17/2009	<5.0	<5.0	13.7	<5.0	<5.0	<2.0
MMW-P-06	3/17/2009	<5.0	<5.0	292	35.3	<5.0	<2.0
MMW-P-07	3/17/2009	<5.0	<5.0	361	17.7	<5.0	1,830
MMW-P-08	3/17/2009	<5.0	<5.0	1,130	47.1	<5.0	5,680
MMW-P-09S	3/17/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
MMW-P-09D	3/17/2009	<5.0	<5.0	<5.0	<5.0	<5.0	85.1
MMW-P-10S	3/17/2009	11.9	8.6	1,160	71.5	<5.0	<2.0
MMW-P-10D	3/17/2009	<5.0	<5.0	4,860	12.9	<5.0	2,500
Keramida Monitoring Wells (Off-site)							
MW-168S	NS	NS	NS	NS	NS	NS	NS
MW-168D	3/17/2009	<5.0	<5.0	16.5	<5.0	<5.0	<2.0
Floral Park Monitoring Wells (Off-site)							
MMW-C-01	3/17/2009	<5.0	<5.0	508	7.3	<5.0	<2.0
MMW-C-02	3/17/2009	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
IDEM RISC Default Industrial Cleanup Level		55	31	1,000	2,000	1,000	4
IDEM RISC Default Residential Cleanup Level		5	5	70	100	80	2

Note:

All Values Over IDEM RISC Default Industrial Cleanup Level in RED

All Values Over IDEM RISC Default Residential Cleanup Level in BLUE

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

Table 5
Monitoring Well Groundwater Analytical Results
First Quarter 2009
Michigan Plaza
3801-3823 W. Michigan Street
Indianapolis, Indiana
MUNDELL Job No.: M01046

Well ID	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Monitoring Wells (Apts)							
MMW-1S	9/10/2004	3.1 J	< 5.0	< 5.0	< 5.0	<5.0	4.1
	3/15/2005	150	10	< 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	<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	<2.0
	3/21/2008	280	14	<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
	MMW-2S	9/10/2004	<5.0	<5.0	<5.0	<5.0	<5.0
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
6/2/2008		<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	5.4	<5.0	<5.0	<2.0
	9/5/2006	<5.0	23	7.4	<5.0	<5.0	<2.0
	6/2/2008	<5.0	20.2	7.9	<5.0	<5.0	2.8
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	2.3J	<5.0	220
	6/2/2008	<5.0	<5.0	515	<5.0	<5.0	32.2
MMW-5D	8/24/2004	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
	9/10/2004	<5.0	<5.0	3400	13	<5.0	270
	11/10/2005	<5.0	<5.0	3900	19	<5.0	140
	9/5/2006	<50	<50	2500	<50	<5.0	170
	6/2/2008	<5.0	<5.0	1360	19.9	<5.0	207
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
	6/2/2008	<5.0	<5.0	65.5	<5.0	<5.0	242
MMW-7S	8/24/2004	<5.0	<5.0	28	<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
	6/2/2008	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
IDEM RISC Default Industrial Cleanup Level - 2006		55	31	1,000	2,000	1,000	4
IDEM RISC Default Residential Cleanup Level - 2006		5	5	70	100	80	2

Note:

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

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

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 are appear to be undergoing reductive dechlorination due to CAP-18 Injections

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

"-" indicates geochemical parameter was not collected, "NV" indicates data was not valid due to equipment error

Table 6
Historical Sewer Analytical Results
Michigan Plaza
Indianapolis, Indiana
MUNDELL Job No.: M01046

Sample	Sample Date	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Chloroform	Vinyl chloride	Chloro methane	Methylene chloride	Naphthalene	1,2,3-Trichloro benzene	1,4-Dichloro benzene	Toluene	Acetone
		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
SS-P-01 (7')	9/30/05	15	< 5.0	19	< 5.0	66	< 2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	89
	11/8/05	9.3	<5.0	47	<5.0	200	<2.0	<5.0	<5.0	15	<5.0	<5.0	<5.0	130
	3/18/09	<50.0	<50.0	10.5J	<50.0	70.7	<20.0	NA	<50.0	<50.0	NA	NA	<50.0	NA
SS-A-01 (7')	9/26/05	58	< 5.0	24	< 5.0	44	< 2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	11/8/05	51	< 5.0	27	< 5.0	49	< 2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	60
	6/14/07	< 5.0	< 5.0	< 5.0	< 5.0	11	<2.0	< 5.0	< 5.0	< 5.0	< 5.0	9.8	< 5.0	< 100
	3/18/09	<50.0	<50.0	<50.0	<50.0	<50.0	<20.0	NA	<50.0	<50.0	NA	NA	<50.0	NA
SS-A-02 (9')	9/26/05	< 5.0	< 5.0	< 5.0	< 5.0	22	< 2.0	< 5.0	< 5.0	< 5.0	< 5.0	12	6.8	94
	11/8/05	12	< 5.0	< 5.0	< 5.0	16	< 2.0	< 5.0	< 5.0	< 5.0	< 5.0	14	< 5.0	< 25.
	6/14/07	< 5.0	< 5.0	< 5.0	< 5.0	12	< 2.0	< 5.0	< 5.0	< 5.0	< 5.0	11	< 5.0	< 100
	3/18/09	<50.0	<50.0	<50.0	<50.0	<50.0	<20.0	NA	<50.0	<50.0	NA	NA	<50.0	NA
SS-A-03 (10')	9/30/05	< 5.0	< 5.0	< 5.0	< 5.0	140	< 2.0	37	< 5.0	< 5.0	< 5.0	6.1	< 5.0	410
	11/8/05	20	< 5.0	< 5.0	< 5.0	19	< 2.0	< 5.0	< 5.0	< 5.0	< 5.0	10	5.2	< 25.
	6/14/07	< 5.0	< 5.0	< 5.0	< 5.0	10	< 2.0	< 5.0	< 5.0	< 5.0	< 5.0	10	< 5.0	< 100
	3/18/09	<50.0	<50.0	<50.0	<50.0	<50.0	<20.0	NA	<50.0	<50.0	NA	NA	<50.0	NA
SS-P-3819	11/8/05	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	87
IDEM RISC Default Industrial Cleanup Level		55	7.2	1000	2000	1000	2	NA	380	2000	NA	120	20000	92000
IDEM RISC Default Residential Cleanup Level		5	5	70	100	80	2	NA	5	8.3	NA	75	1000	950

Note:

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
*TVOHs = Total Volatile Organic Halides (results from SDI Quick Test = Sum of TCE, PCE and 1,1,1-Trichloroethane)
J value = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL - Not Available
NA = Not Applicable, Test kit not run

TABLE 7a

AIR SAMPLING ANALYTICAL RESULTS - TO-15 SIM ANALYSIS

Sampling Events - April 2003, October 2004, September 2005, October 2006, April 2008, February 2009, March 2009

Michigan Plaza Shopping Center

Indianapolis, Indiana

MUNDELL Project No. M01046

Sample ID	Sample Date	Tetrachloroethene (PCE)			Trichloroethene (TCE)			cis-1,2-Dichloroethene (cis-1,2-			Vinyl Chloride (VC)		
		ppb	ug/m ³	mg/m3	ppb	ug/m ³	mg/m3	ppb	ug/m ³	mg/m3	ppb	ug/m ³	mg/m3
PLAZA 3801 (Village Pantry)	4/25/2003	38	260	0.26	0.09	0.49	0.00049	ND	ND	ND	ND	ND	ND
	9/29/2005	26	180	0.18	0.07	0.39	0.00039	0.09	0.36	0.00036	0.98	2.50	0.0025
	10/12/2006	0.98	6.70	0.0067	ND	ND	ND	0.061	0.24	0.00024	0.10	0.27	0.0003
	4/14/2008	0.15	1.0	0.0010	ND	ND	ND	ND	ND	ND	0.079	0.20	0.00020
	2/26/2009	0.84	5.7	0.0057	ND	ND	ND	ND	ND	ND	0.460	1.20	0.00120
LIBRARY	4/25/2003	176.75	1,200	1.20	0.43	2.30	0.00230	0.09	0.36	0.00036	ND	ND	ND
FORMER LIBRARY	3/17/2009	1.70	11	0.01	ND	ND	ND	ND	ND	ND	1.10	2.90	0.0029
PLAZA 3815 (Vacant)	4/25/2003	250	1,700	1.70	0.43	2.30	0.00230	0.08	0.33	0.00033	ND	ND	ND
	10/7/2004	18	120	0.12	0.16	0.86	0.00086	0.17	0.67	0.00067	0.73	1.90	0.0019
	9/29/2005	42	280	0.28	0.10	0.53	0.00053	0.36	1.40	0.00140	0.07	0.18	0.0002
	10/12/2006	3.6	25	0.03	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4/14/2008	1.6	11	0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2/26/2009	1.8	12	0.01	ND	ND	ND	ND	ND	ND	0.051	0.13	0.00013
PLAZA 3817	4/25/2003	200	1,400	1.40	0.18	1.0	0.00100	0.03	0.18	0.00018	ND	ND	ND
PLAZA 3817 (AA Suite)	3/17/2009	1.00	7.00	0.007	ND	ND	ND	ND	ND	ND	0.16	0.40	0.0004
PLAZA 3819 (Mexican Store)	10/7/2004	26	180	0.18	0.16	0.86	0.00086	0.17	0.67	0.00067	2.6	6.6	0.0066
	9/29/2005	75	510	0.51	0.08	0.45	0.00045	0.19	0.75	0.00075	1.6	4.10	0.0041
	10/12/2006	2.2	15	0.02	ND	ND	ND	0.06	0.22	0.00022	0.20	0.51	0.0005
	4/14/2008	1.30	8.8	0.009	ND	ND	ND	ND	ND	ND	0.14	0.35	0.0004
	2/26/2009	0.41	2.8	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND
PLAZA3819 (Mexican Store) (below slab)	10/7/2004	1.70	12	0.01	1.70	9.1	0.00910	0.96	3.80	0.00380	0.04	0.09	0.0001
PLAZA3823 (Laundromat)	10/12/2006	0.32	2.20	0.002	ND	ND	ND	ND	ND	ND	0.05	0.14	0.0001
PLAZA 3823 (Laundromat)	4/14/2008	0.35	2.30	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
PLAZA 3823 (Laundromat)	2/26/2009	0.13	0.90	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ambient Air	10/12/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ambient Air - West of Village Pantry on Fence	4/14/2008	0.13	0.90	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ambient Air - West of Village Pantry on Fence	2/26/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.460	1.20	0.00120

Note: Results shown in **RED** exceed the draft U.S. EPA occupational guidance while results in bold **BLACK** and with blue **SHADING** exceed **IDEM** target occupational air concentrations.

Data on this table was originally presented as Table 6b in MUNDELL's Further Site Characterization Report, dated May 10, 2006

TABLE 7b
AIR SAMPLING ANALYTICAL RESULTS - TO-15 SIM ANALYSIS
Michigan Meadows Apartments
Indianapolis, Indiana
MUNDELL Project No. M01046

Sample ID	Sample Date	Tetrachloroethene (PCE)			Trichloroethene (TCE)			cis-1,2-Dichloroethene (cis-1,2-DCE)			Vinyl Chloride (VC)		
		ppb v/v	ug/m ³	mg/m3	ppb v/v	ug/m ³	mg/m3	ppb v/v	ug/m ³	mg/m3	ppb v/v	ug/m ³	mg/m3
Building 1 (basement-laundry room)	4/23/2003	28	190	0.19	0.38	2.00	0.002	0.054	0.22	0.00022	ND	ND	ND
Building 1, Basement Apt 101	10/7/2004	6.8	46	0.046	0.21	1.1	0.001	0.17	0.67	0.00067	0.052	0.13	0.00013
Building 1, Basement Apt 101	4/14/2008	0.11	0.74	0.0007	ND	ND	ND	ND	ND	ND	ND	ND	ND
Building 1, Basement Apt 101	2/26/2009	0.23	1.60	0.0016	ND	ND	ND	ND	ND	ND	ND	ND	ND
Building 1, Apt 104 (second floor)	10/7/2004	0.96	6.5	0.0065	0.077	0.41	0.00041	0.39	1.5	0.0015	0.096	0.25	0.00025
Building 1, Apt 108 (Daughter's Room)	2/26/2009	3.9	27	0.027	ND	ND	ND	ND	ND	ND	ND	ND	ND
Building 1, Apt 109 (third floor)	10/7/2004	5.8	39	0.039	0.16	0.86	0.00086	0.13	0.52	0.00052	0.062	0.16	0.00016
Building 1, Apt 109 (third floor)	4/14/2008	1.80	12	0.012	ND	ND	ND	ND	ND	ND	ND	ND	ND
Building 6, basement	4/24/2003	0.95	6.4	0.0064	0.049	0.26	0.00026	0.039	0.95	0.00095	ND	ND	ND
Building 6, Basement Apt 602	4/14/2008	0.26	1.8	0.0018	ND	ND	ND	ND	ND	ND	ND	ND	ND
Building 6, Basement Apt 602	2/26/2009	0.45	3.1	0.0031	ND	ND	ND	ND	ND	ND	ND	ND	ND
Building 20 Apt 2002	10/7/2004	0.06	0.37	0.00	0.078	0.42	0.00042	0.17	0.67	0.00	0.046	0.12	0.00012
Building 20 Apt 2006	10/7/2004	0.095	0.64	0.00064	0.11	0.59	0.00059	0.22	0.87	0.00087	0.066	0.17	0.00017
Building 20 Apt 2008	10/7/2004	0.36	2.4	0.0024	0.4	2.1	0.0021	0.23	0.91	0.00091	0.066	0.17	0.00017
Building 10, Basement Apt 1001	4/14/2008	0.26	0.25	0.0003	ND	ND	ND	ND	ND	ND	ND	ND	ND
Building 10, Basement Apt 1001	2/26/2009	0.99	6.70	0.0067	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ambient Air NW Meadows MAA-1	10/7/2004	0.29	2.0	0.002	0.3	1.6	0.0016	0.33	1.3	0.0013	0.06	0.15	0.00015
Ambient Air NE Meadows MAA-2	10/7/2004	0.21	1.4	0.0014	0.19	1.0	0.0	0.18	0.71	0.00071	0.046	0.12	0.00012
Ambient Air SE Meadows MAA-3	10/7/2004	0.3	2.0	0.0	0.15	0.81	0.00081	0.16	0.63	0.00063	0.053	0.14	0.00014
Ambient Air - Fence East of Bldg 1	4/14/2008	0.08	0.54	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ambient Air - Fence East of Bldg 1	2/26/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Note: Results shown in bold **RED** exceed the draft U.S. EPA residential guidance while results shown in bold **BLACK** with blue **SHADING** exceed **IDEM** target residential air concentrations.

TABLE 7c

AIR SAMPLING ANALYTICAL RESULTS - TO-15 SIM ANALYSIS

Soil Gas Monitoring Data

Michigan Plaza Shopping Center & Michigan Meadows Apartments

Indianapolis, Indiana

MUNDELL Project No. M01046

Sample ID	Sample Date	Tetrachloroethene (PCE)			Trichloroethene (TCE)			cis-1,2-Dichloroethene (cis-1,2-DCE)			Vinyl Chloride (VC)		
		ppb	ug/m ³	mg/m3	ppb	ug/m ³	mg/m3	ppb	ug/m ³	mg/m3	ppb	ug/m ³	mg/m3
MGW-1	10/7/2004	0.26	1.8	0.0	0.079	0.42	0.00042	ND	ND	ND	0.2	0.51	0.00051
MGW-1	4/15/2008	0.08	0.55	0.001	0.06	0.29	0.00029	ND	ND	ND	ND	ND	ND
MGW-1	2/26/2009	4.80	32	0.032	1.30	6.80	0.00680	0.20	0.80	0.00080	ND	ND	ND
MGW-3	10/7/2004	0.31	2.1	0.0	0.068	0.37	0.00037	ND	ND	ND	ND	ND	ND
MGW-3	4/15/2008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MGW-3	2/26/2009	40.00	270	0.27000	7.40	40	0.04000	1.10	4.40	0.00440	0.29	0.73	0.00073
MGW-5	4/25/2003	18	120	0.12	297	1,600	1.60000	479	1,900	1.900	0.43	1.10	0.0011
MGW-5	10/7/2004	200	1400	1.40	730	3900	3.90000	730	2,900	2.900	0.60	1.50	0.0015
MGW-5	4/15/2008	680	4,600	4.60	660	3,600	3.60	230	910	0.91	ND	ND	ND
MGW-5	2/26/2009	2,100	14,000	14.00	1,100	5,800	5.80	330	1,300	1.30	790	2,000	2

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

Note: Results shown in bold **RED** exceed the draft U.S. EPA occupational guidance while results shown in bold **BLACK** with blue **SHADING** exceed IDEM target occupational air concentrations.

TABLE 7d
AIR CONCENTRATION HEALTH-BASED LIMITS
Michigan Plaza Shopping Center
Indianapolis, Indiana
MUNDELL Project No. M01046

Chemical Name	Carcinogen Classification*	U.S. EPA Draft Guidance Target Indoor Air Concentration,(ug/m ³) ^a	IDEM Draft Default Residential Vapor Intrusion Concentration, (ug/m ³) ^b	IDEM Draft Default Occupational Vapor Intrusion Concentration, (ug/m ³) ^b	U.S. EPA Draft Guidance Target Deep Soil Gas (ug/m ³) ^a	IDEM Draft Guidance Residential Soil Gas Screening Levels (ug/m ³) ^b	IDEM Draft Guidance Commercial Soil Gas Screening Levels (ug/m ³) ^b	IDEM Draft Guidance Residential Sub slab Screening Levels (ug/m ³) ^b	IDEM Draft Guidance Commercial Sub slab Screening Levels (ug/m ³) ^b
cis-1,2-Dichloroethylene (cis-1,2-DCE)	D	35	37	51	3500	NA	NA	NA	NA
Tetrachloroethylene (PCE)	B/C	81	3.2	6.8	8100	320	680	32	68
Trichloroethylene (TCE)	B/C	2.2	1.2	7.9	220	120	790	12	79
Vinyl Chloride	A	28	2.2	8.9	280	220	890	22	89

*Integrated Risk Information System (RISC), U.S. Environmental Protection Agency (EPA)

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

^b IDEM Draft Vapor Intrusion Pilot Program Guidance - April 26, 2006

A = Human Carcinogen

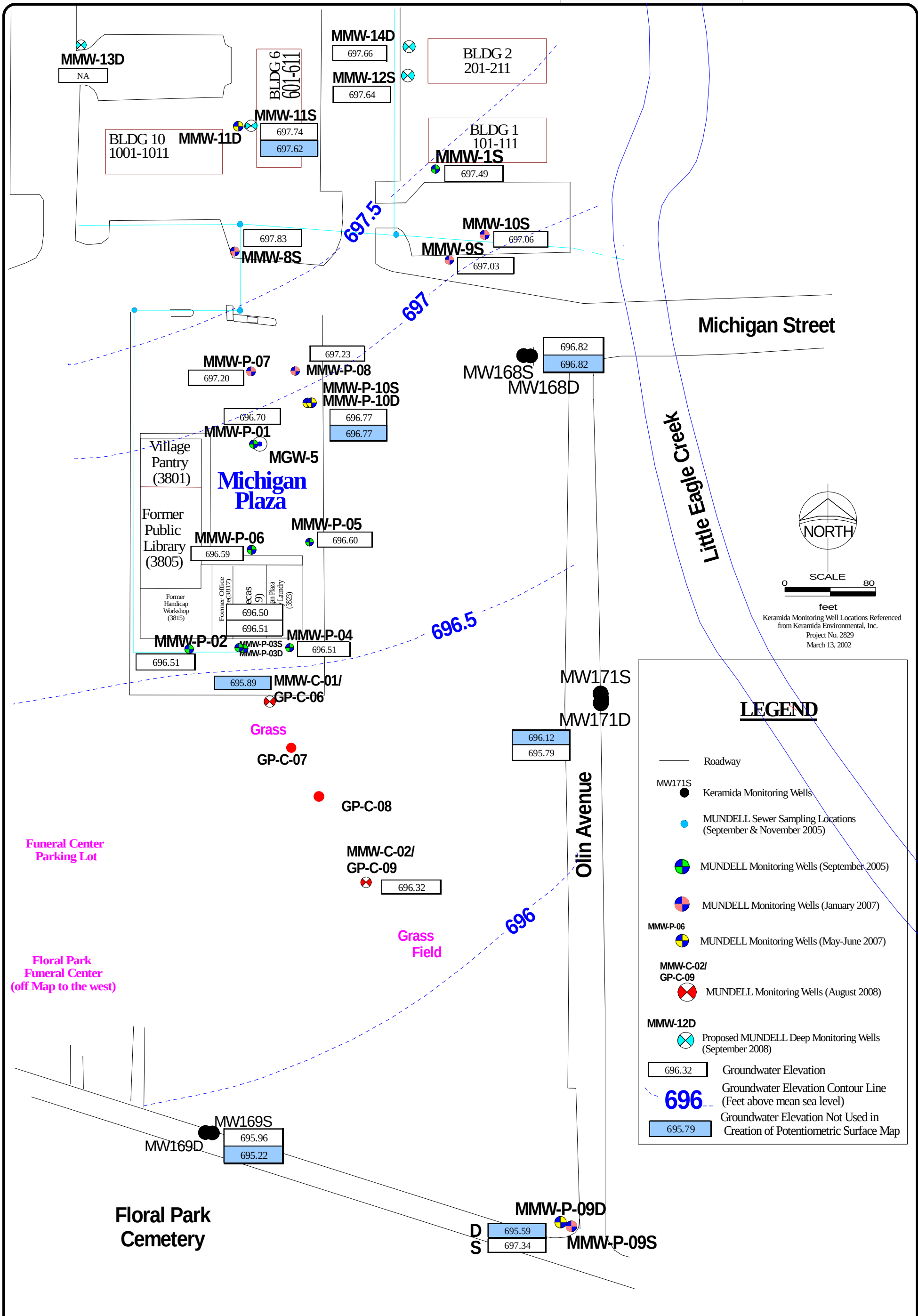
B = Probable human carcinogen

C = Possible human carcinogen

D = Not classifiable as to human carcinogenicity

NA - Not Available

FIGURES



MUNDELL & ASSOCIATES, INC.

Consulting Professionals for the Earth & Environment

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

Project Number:
M01046

Drawing File:

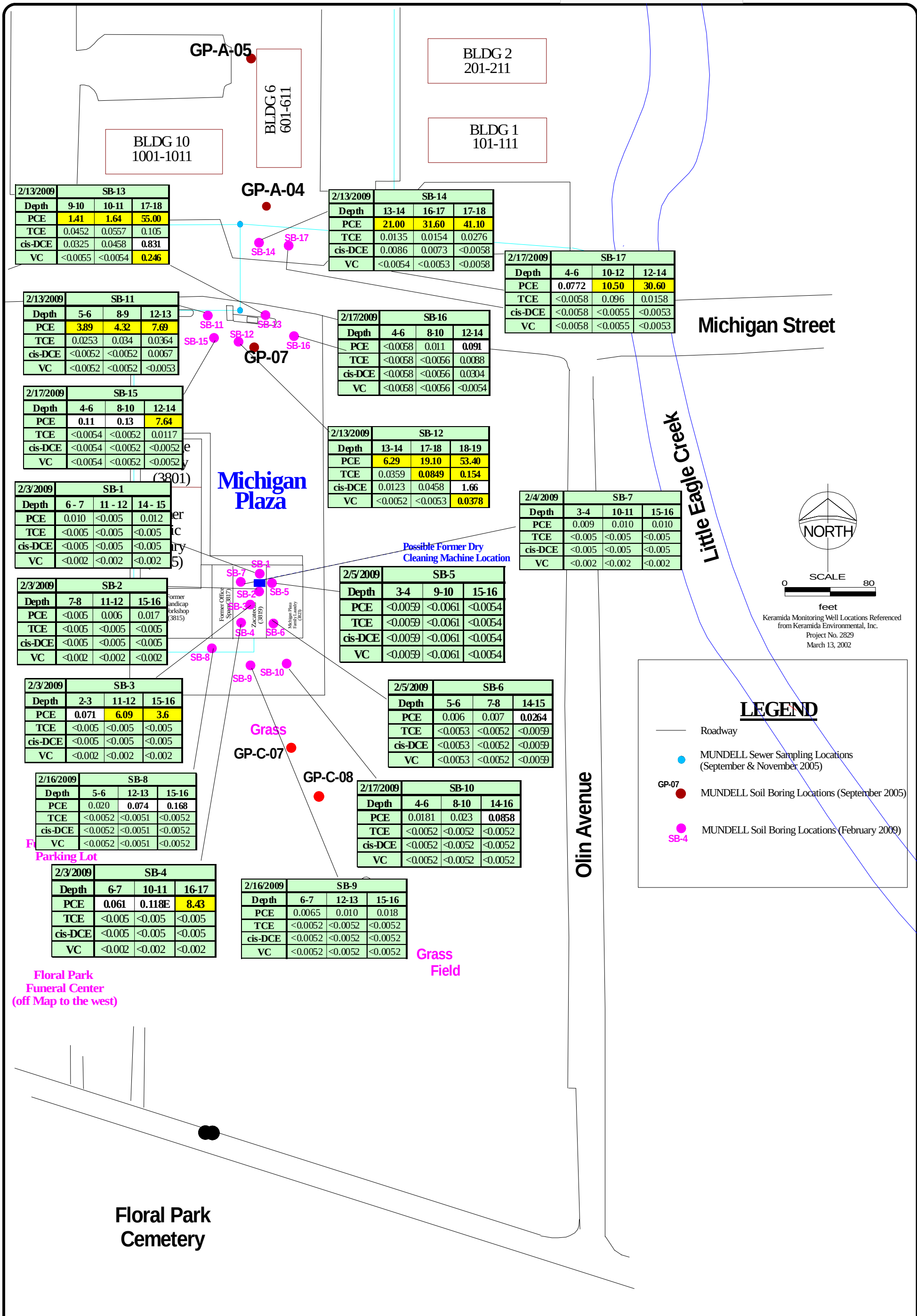
Date Prepared:
7/27/09

Scale:
1"=80'

Potentiometric Surface Map
First Quarter 2009
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana

FIGURE

2



MUNDELL & ASSOCIATES, INC.

Consulting Professionals for the Earth & Environment

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

Project Number:
M01046

Drawing File:

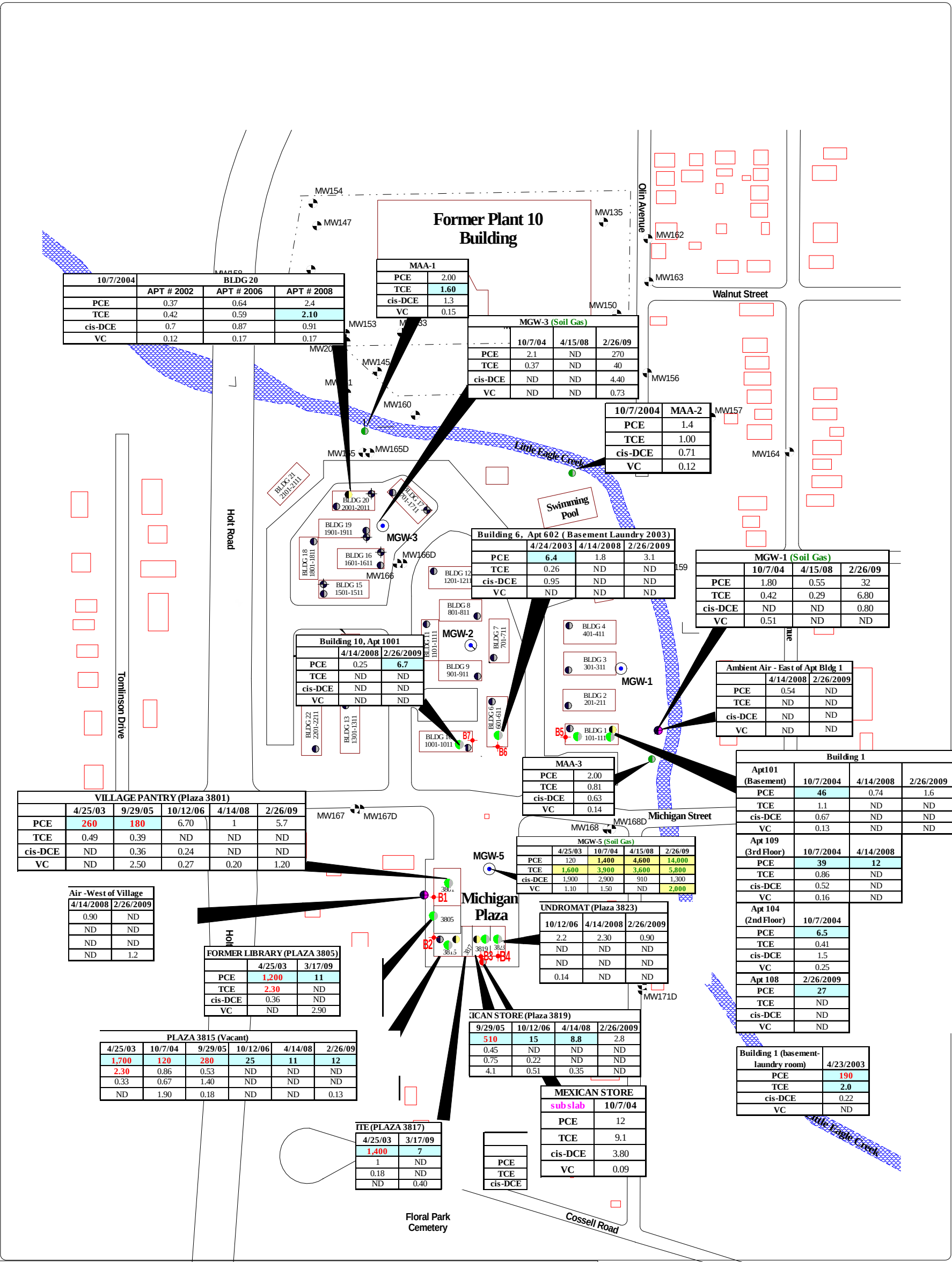
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3/5/09

Scale:
1"=80'

FURTHER SOIL DELINEATION
(February 2009)
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana

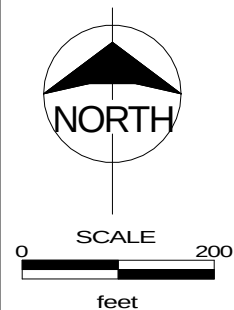
FIGURE

3



LEGEND

- Fence
- MW160 Keramida Groundwater Monitoring Well
- MUNDELL Air Quality Sampling Location (Dec. 10, 2001)
- MUNDELL Air Quality Sampling Location (April 23 & 24, 2003)
- MUNDELL Ambient (outside) Air Quality Sampling Location (Oct. 2004)
- MUNDELL Indoor Air Quality Sampling Location (Oct. 2004)
- MUNDELL Below Slab Sampling Location (Oct. 2004)
- MUNDELL Indoor Air Quality Sampling Location (February/March 2009)
- MUNDELL Ambient (outside) Air Quality Sampling Location (February/ March 2009)
- MUNDELL Existing Air Mitigation System Locations (March 2009)
- MGW-5 MUNDELL Monitoring Gas Well
- Results in RED exceed EPA guidance and those in SHADING exceed IDEM target residential/ industrial concentrations (soil gas)
- Results in GREEN exceed EPA guidance and those in SHADING exceed IDEM target residential/ industrial concentrations (soil gas)



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

Sample Location	
PCE	Tetrachloroethene (ug/m ³)
TCE	Trichloroethene (ug/m ³)
cis-DCE	cis-1,2-Dichloroethene (ug/m ³)
VC	Vinyl chloride (ug/m ³)
Note: ND = Not Detected	

10/23/2009 5:31 PM

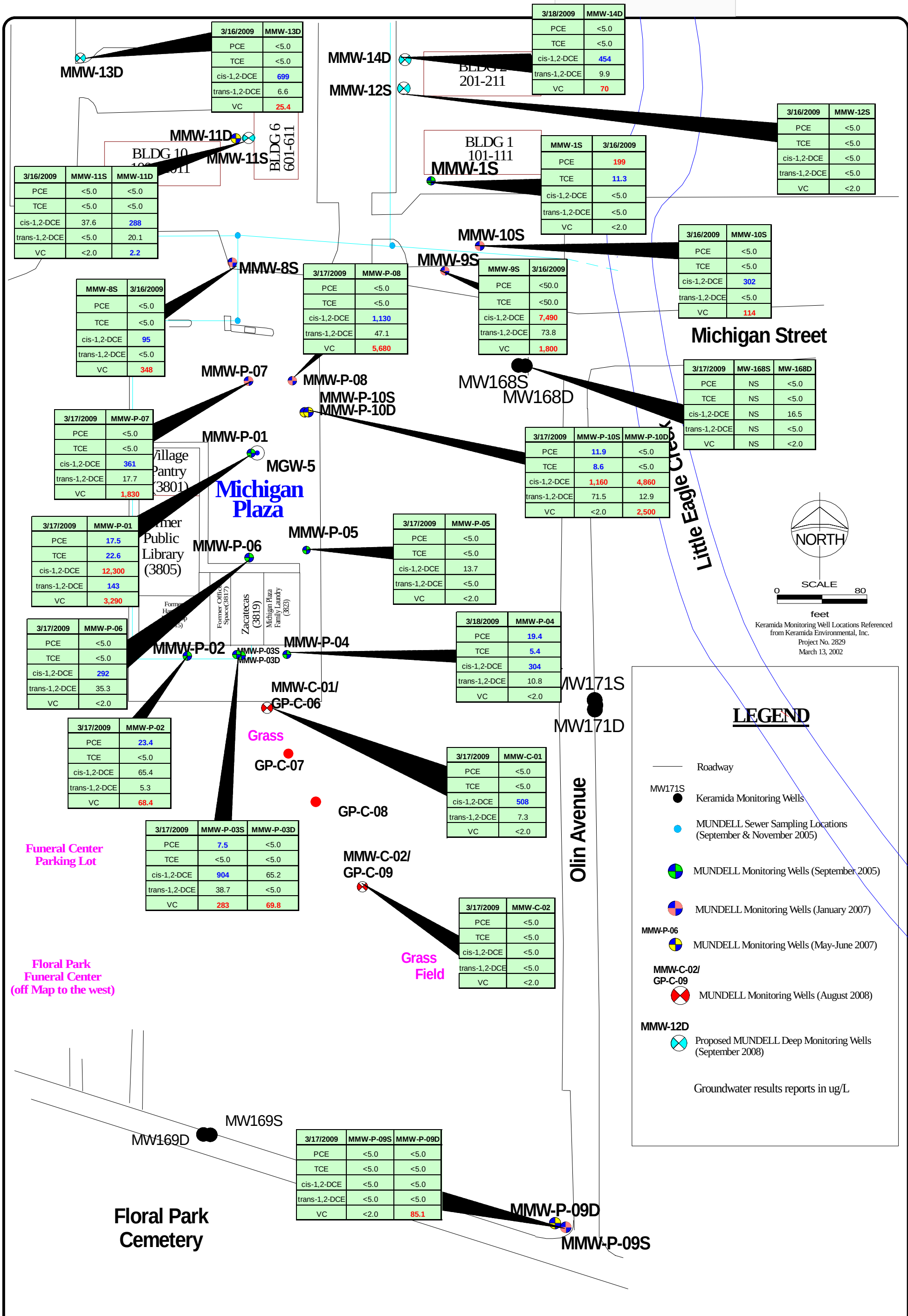
MUNDELL & ASSOCIATES, INC.
Consulting Professionals for the Earth & Environment

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

Project Number: M01046
Drawing File: Base Map.SKF
Date Prepared: 7/17/2009
Scale: 1"=200'6

Recent & Historical Air Analytical Results
Michigan Apartments & Michigan Plaza
3800-3823 West Michigan Avenue
Indianapolis, Indiana

FIGURE
4



MUNDELL & ASSOCIATES, INC.

Consulting Professionals for the Earth & Environment

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

Project Number:
M01046

Drawing File:

Date Prepared:
3/24/09

Scale:
1"=80'

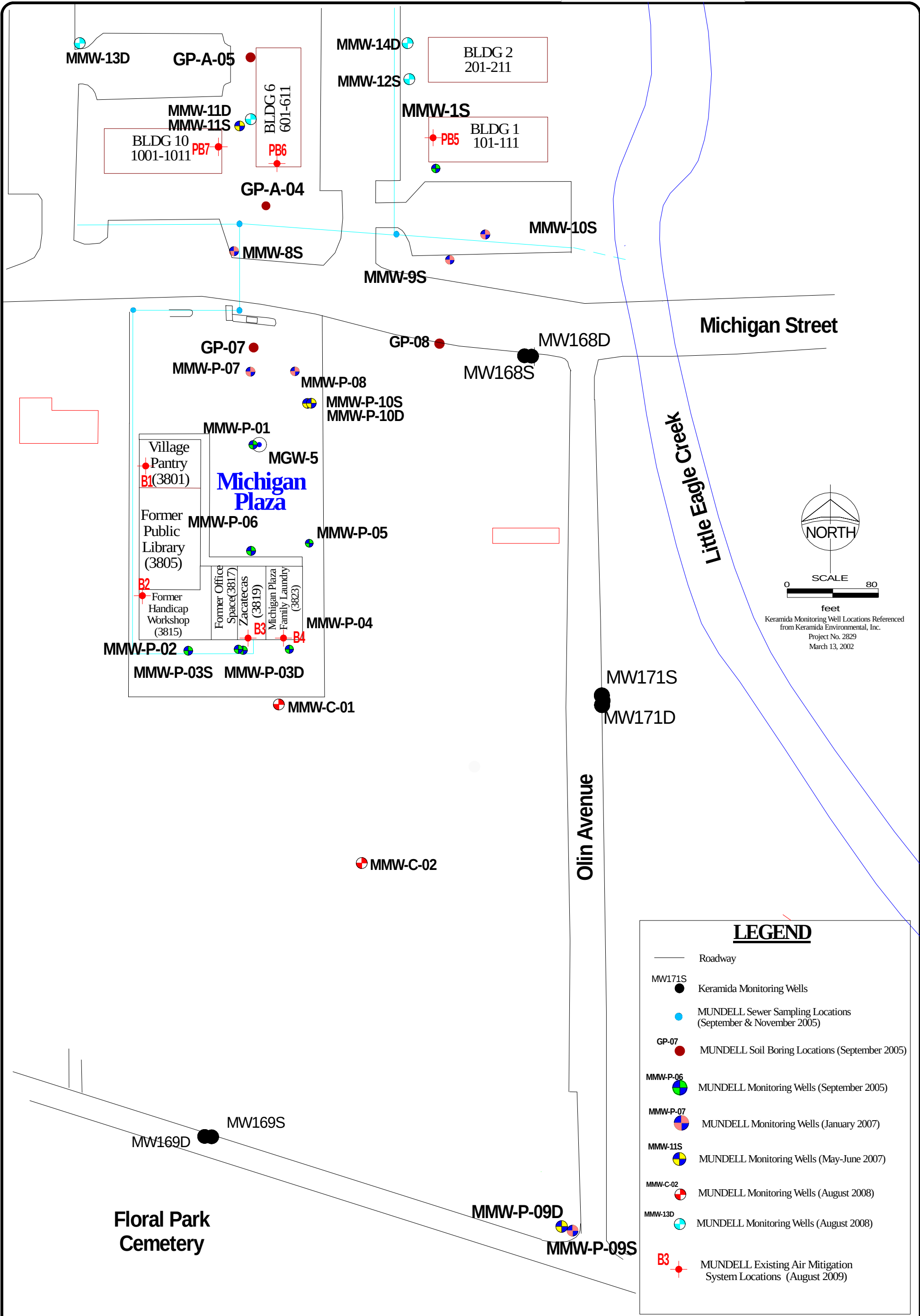
GROUNDWATER ANALYTICAL RESULTS

First Quarter 2009

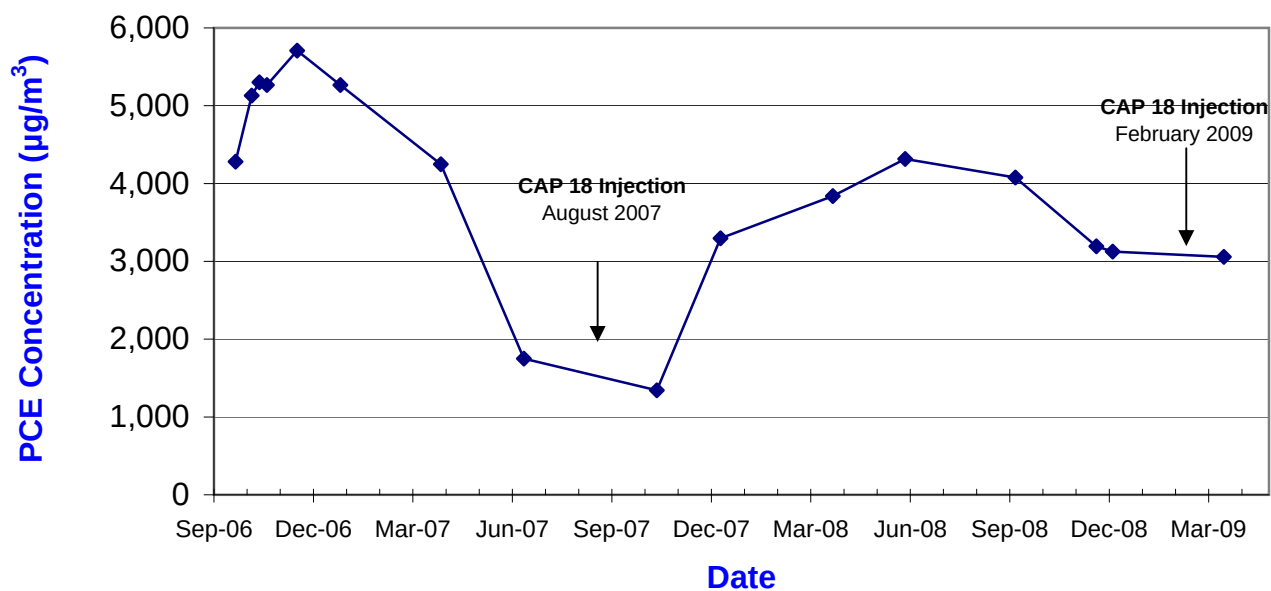
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana

FIGURE

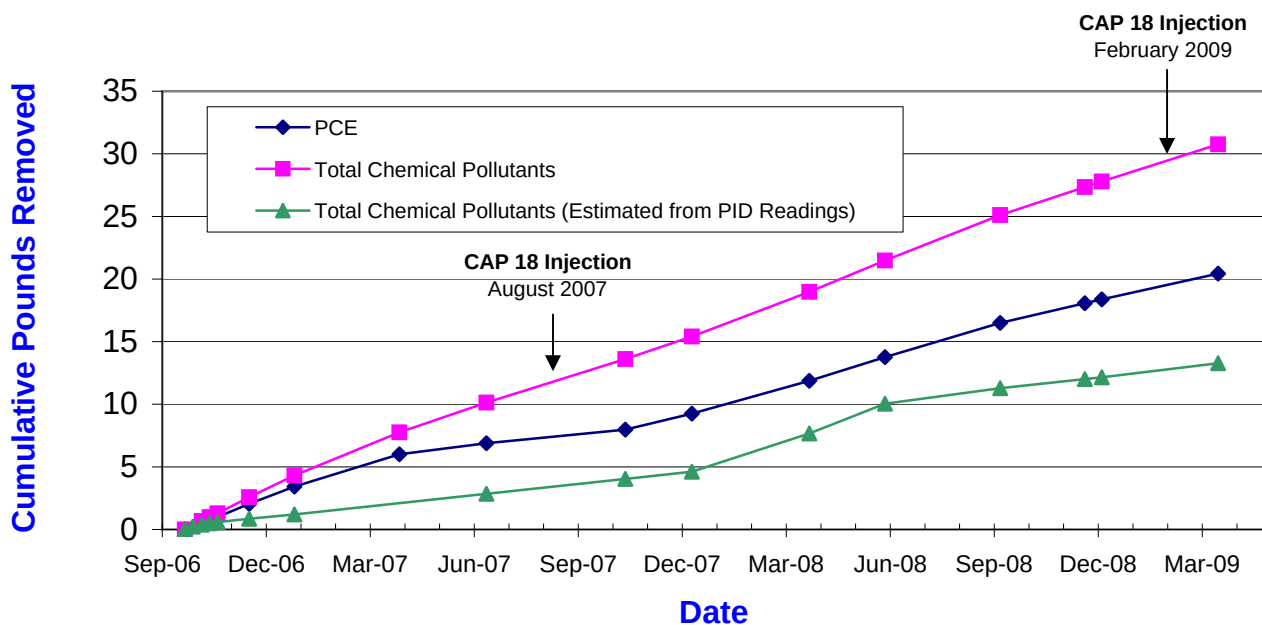
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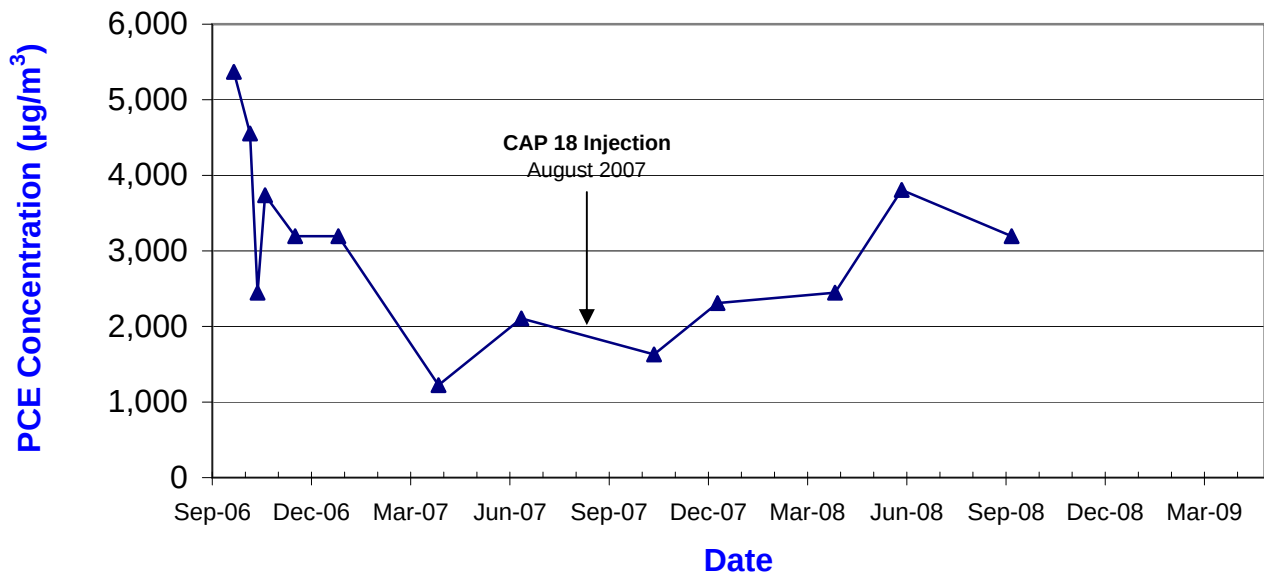
PCE Vapor Concentrations Trend - Village Pantry Vapor Mitigation System (B1)



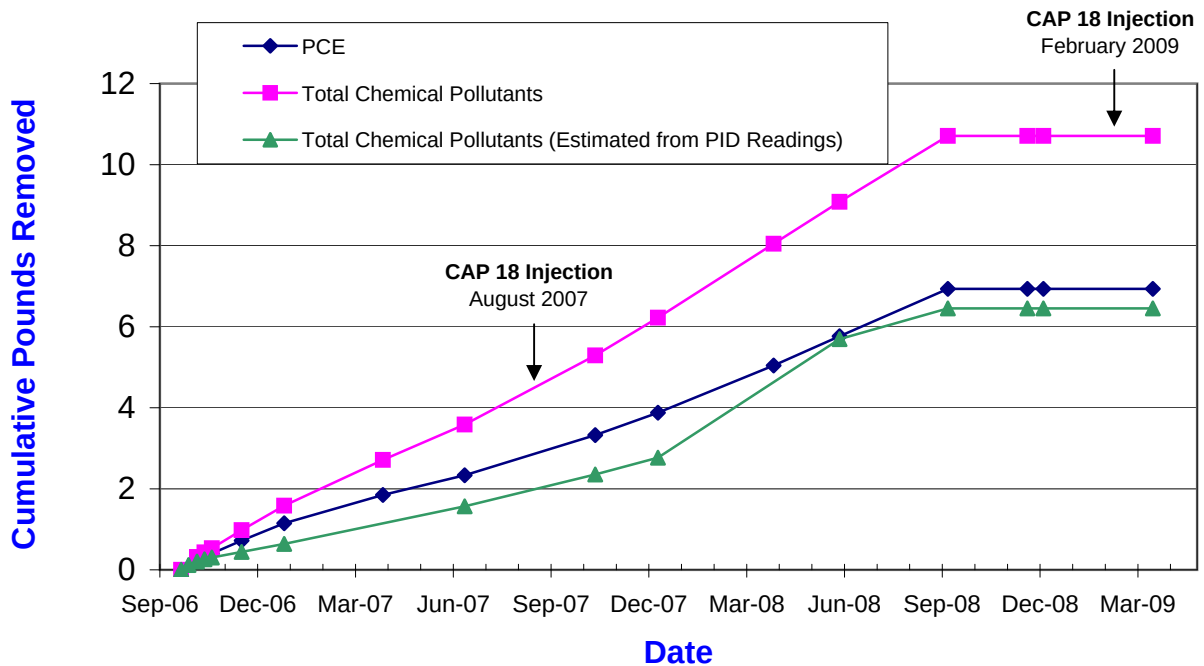
Chemical Pounds Removed - Villiage Pantry Vapor Mitigation System (B1)



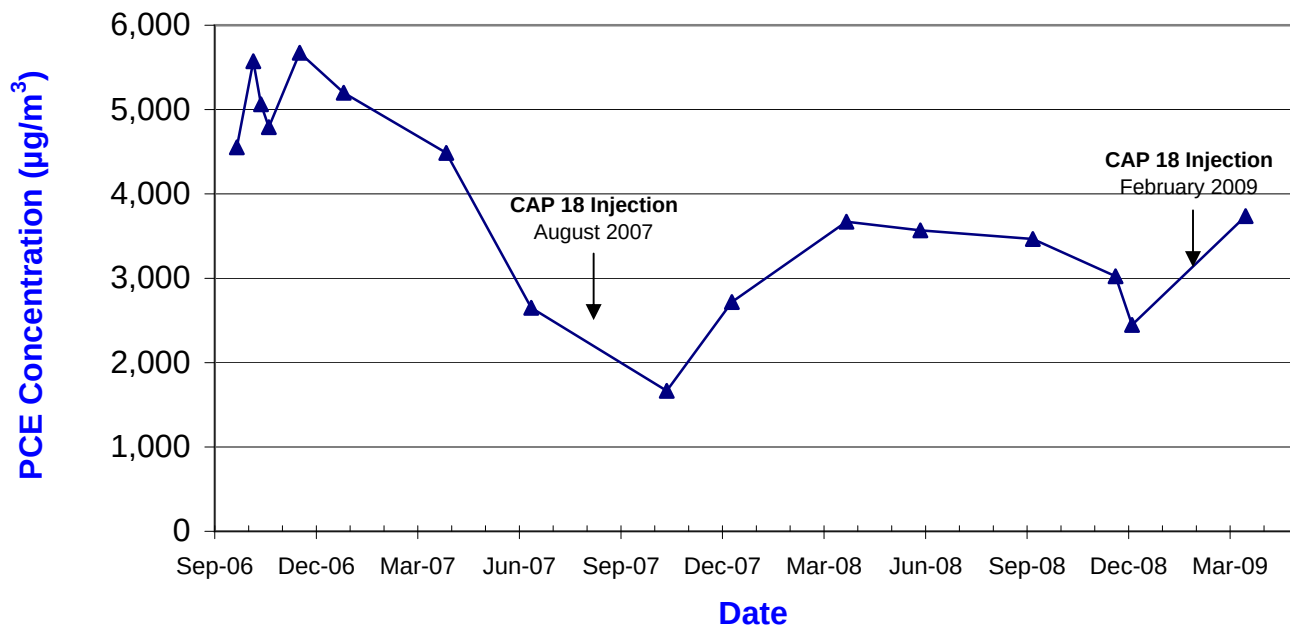
PCE Vapor Concentrations Trend - Handicap Space Vapor Mitigation System (B2)



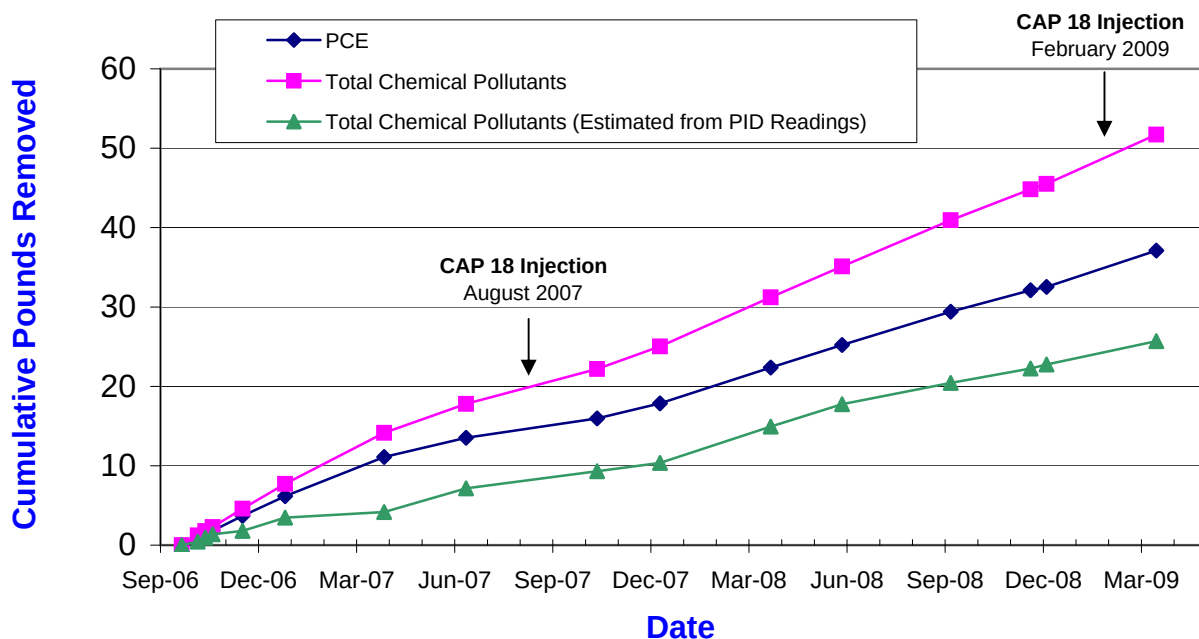
Chemical Pounds Removed - Handicap Space Vapor Mitigation System (B2)



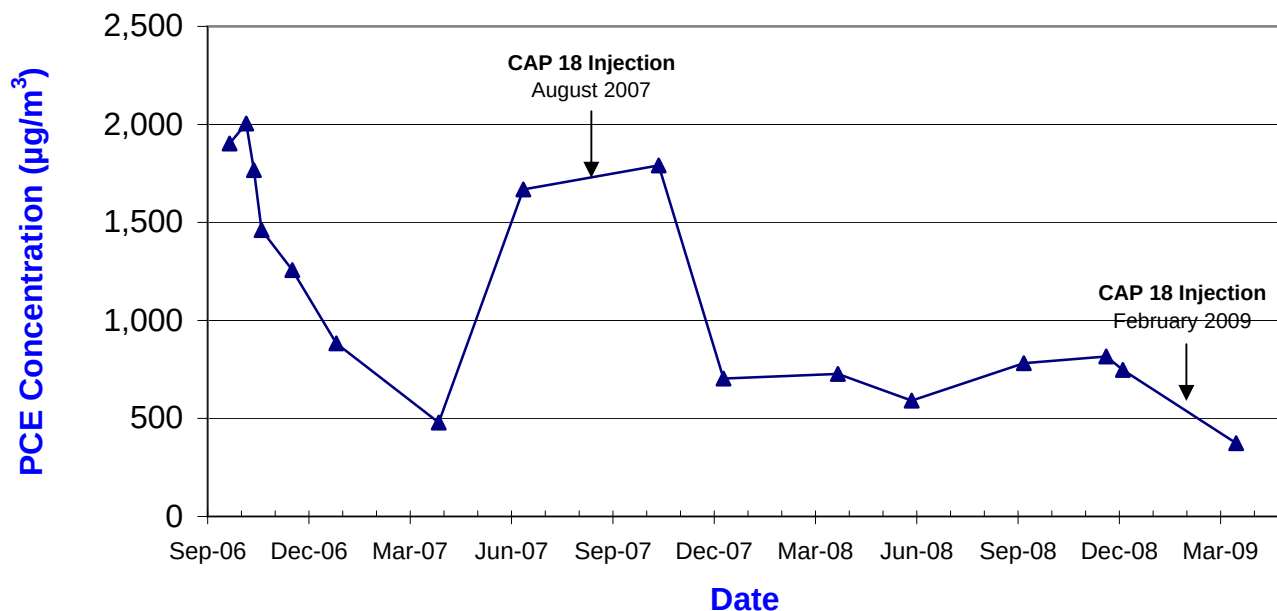
PCE Vapor Concentrations Trend - Mexican Store Vapor Mitigation System (B3)



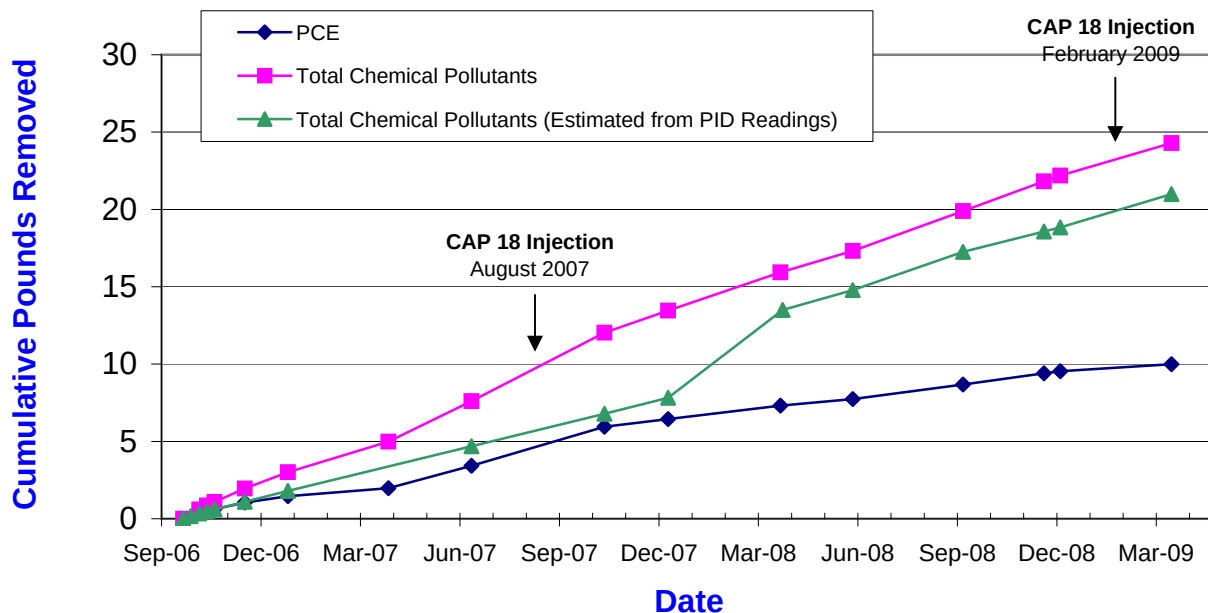
Chemical Pounds Removed - Mexican Store Vapor Mitigation System (B3)



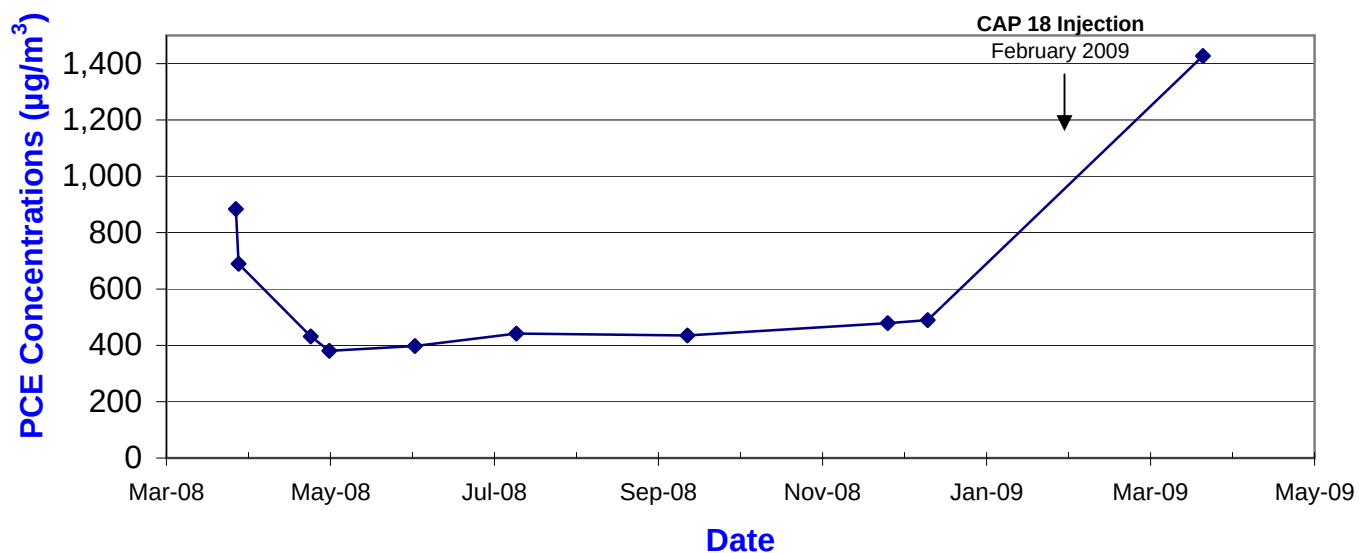
PCE Vapor Concentrations Trend - Laundromat Vapor Mitigation System (B4)



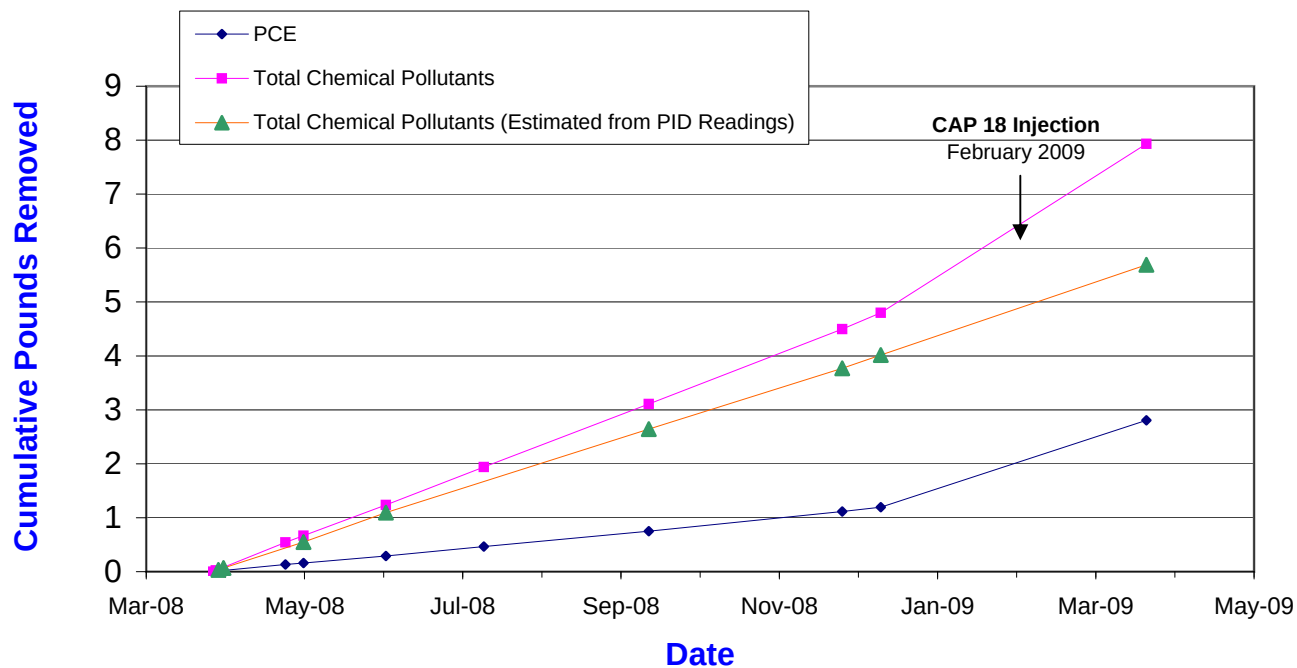
Chemical Pounds Removed - Laundromat Vapor Mitigation System (B4)



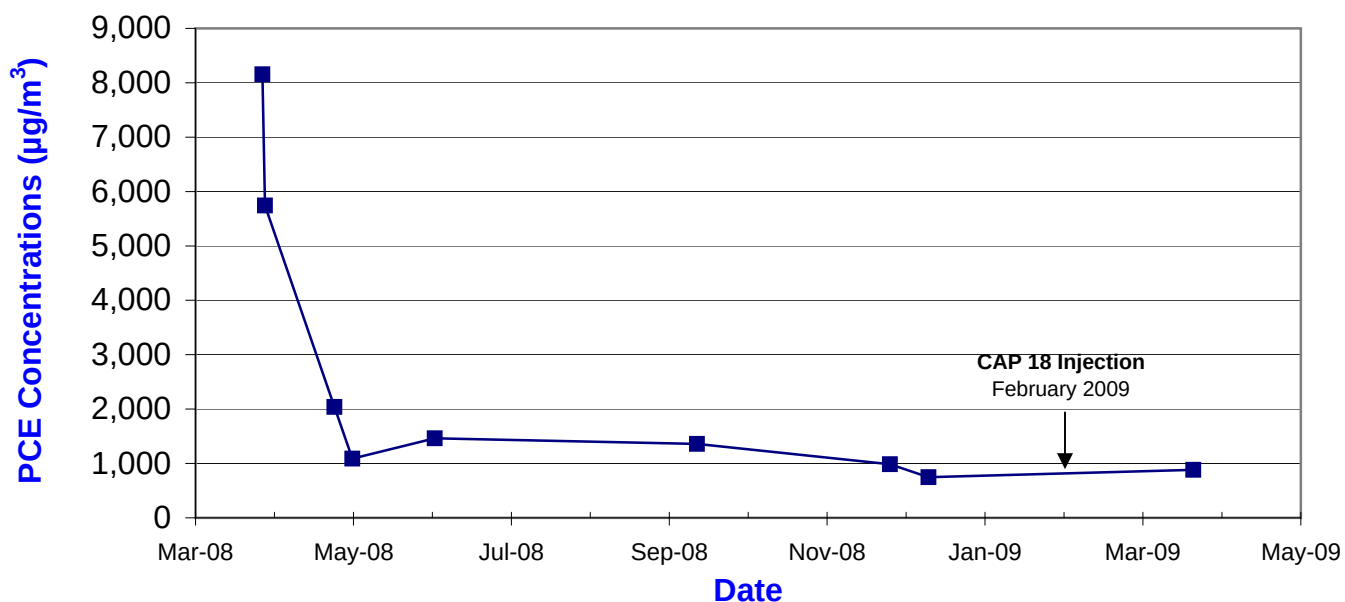
PCE Vapor Concentrations Trend - Apartment Building 1 Vapor Mitigation System (B5)



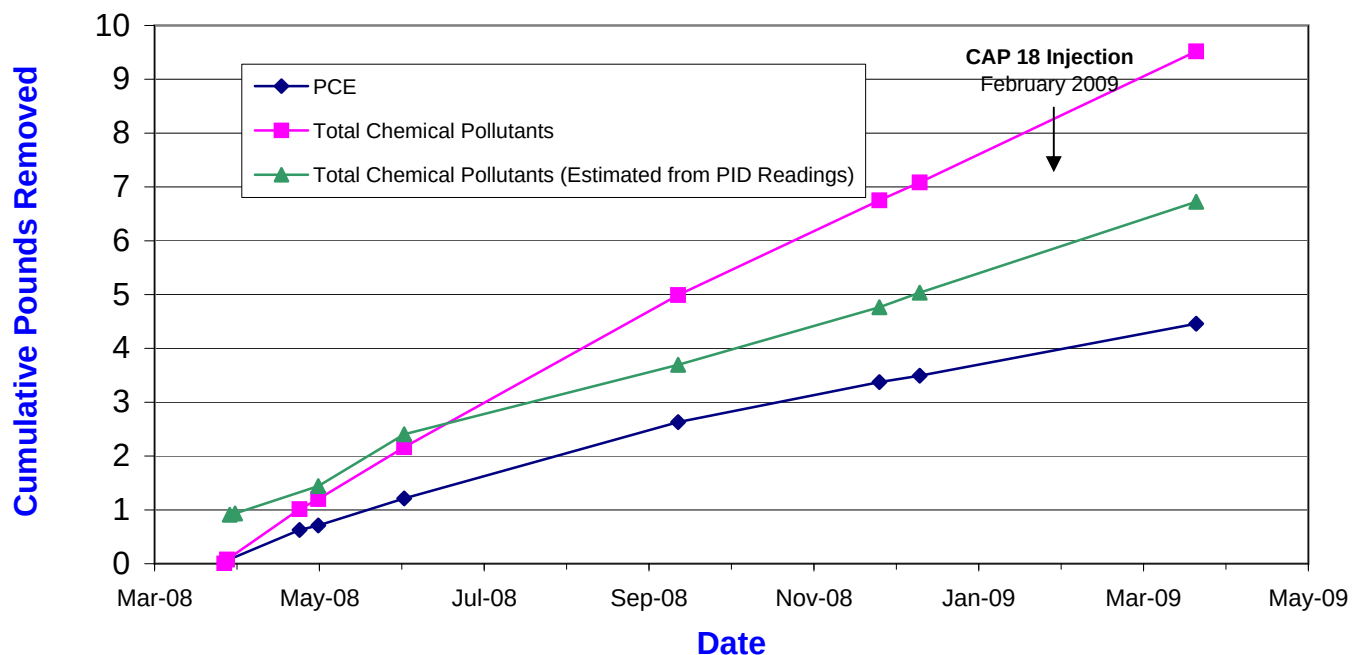
Chemical Pounds Removed - Apartment Building 1 Vapor Mitigation System (B5)



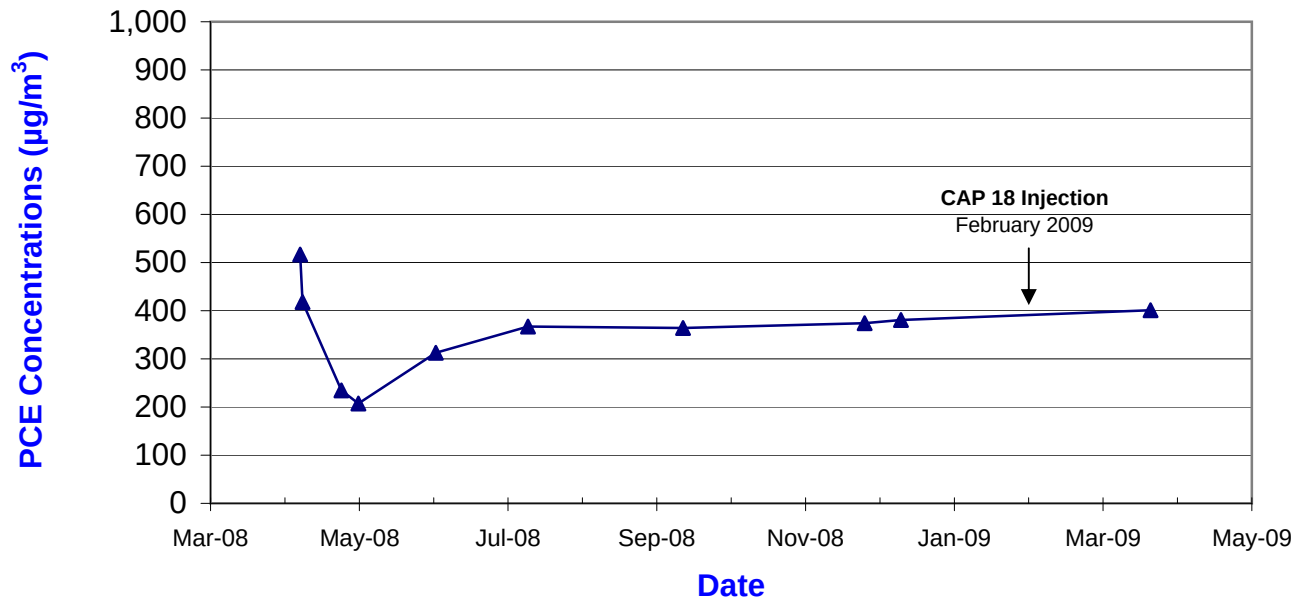
PCE Vapor Concentrations Trend - Apartment Building 6 Vapor Mitigation System (B6)



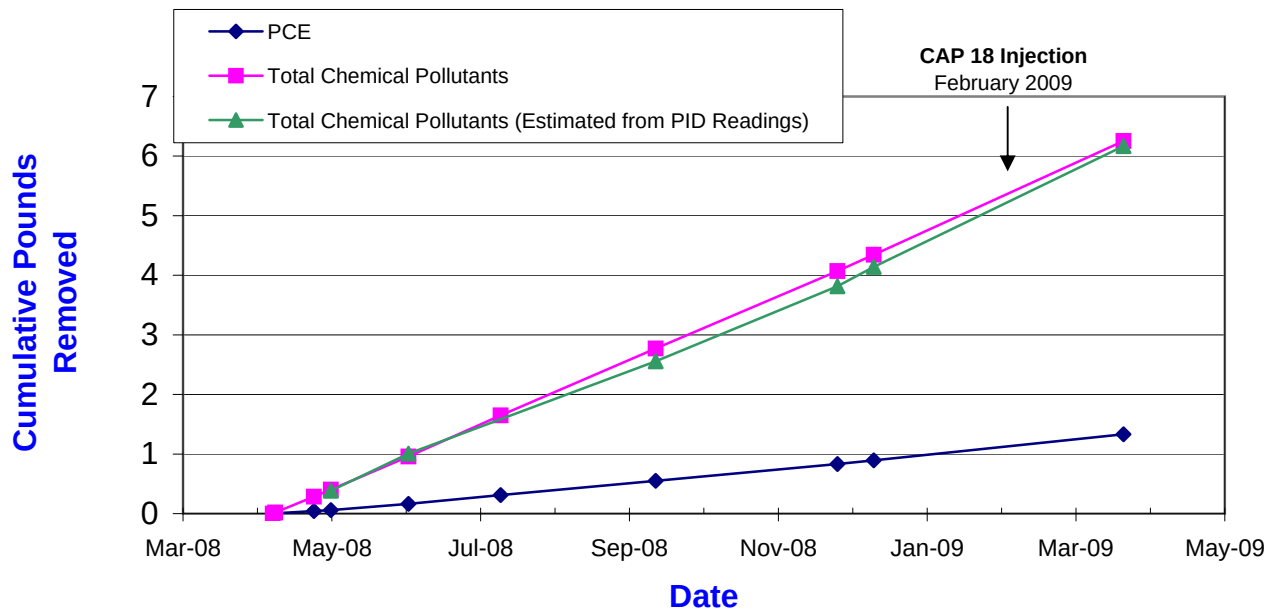
Chemical Pounds Removed - Apartment Building 6 Vapor Mitigation System (B6)



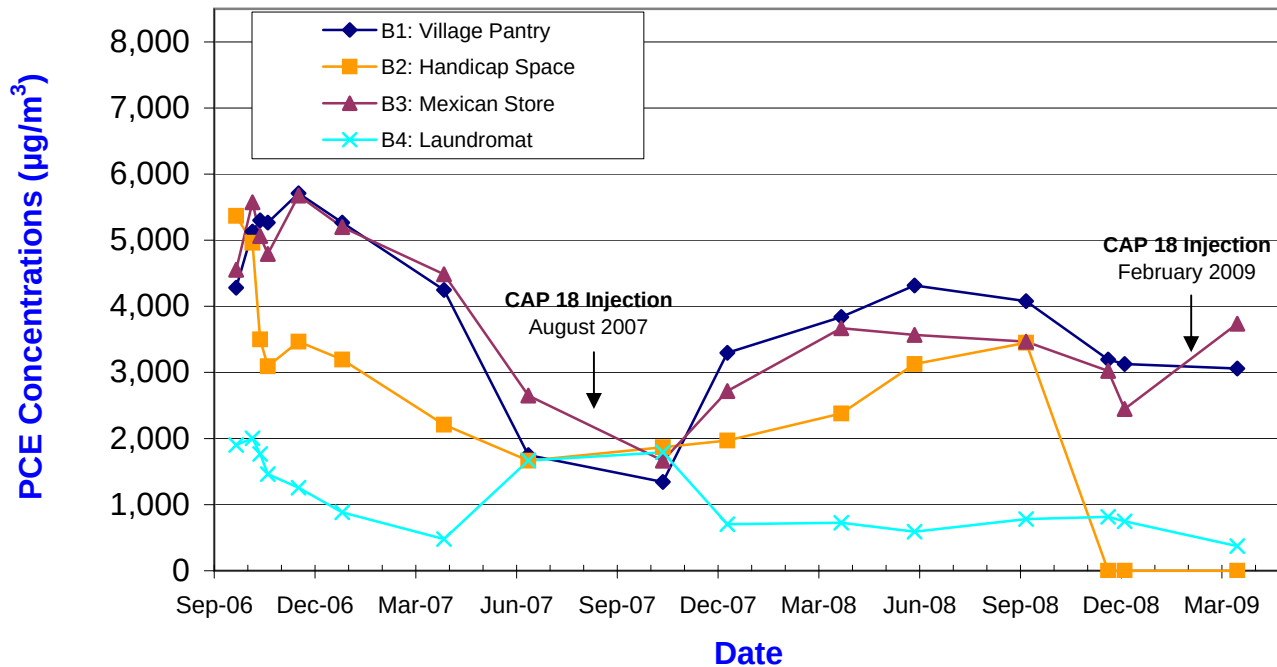
PCE Vapor Concentrations Trend - Apartment Building 10 Vapor Mitigation System (B7)



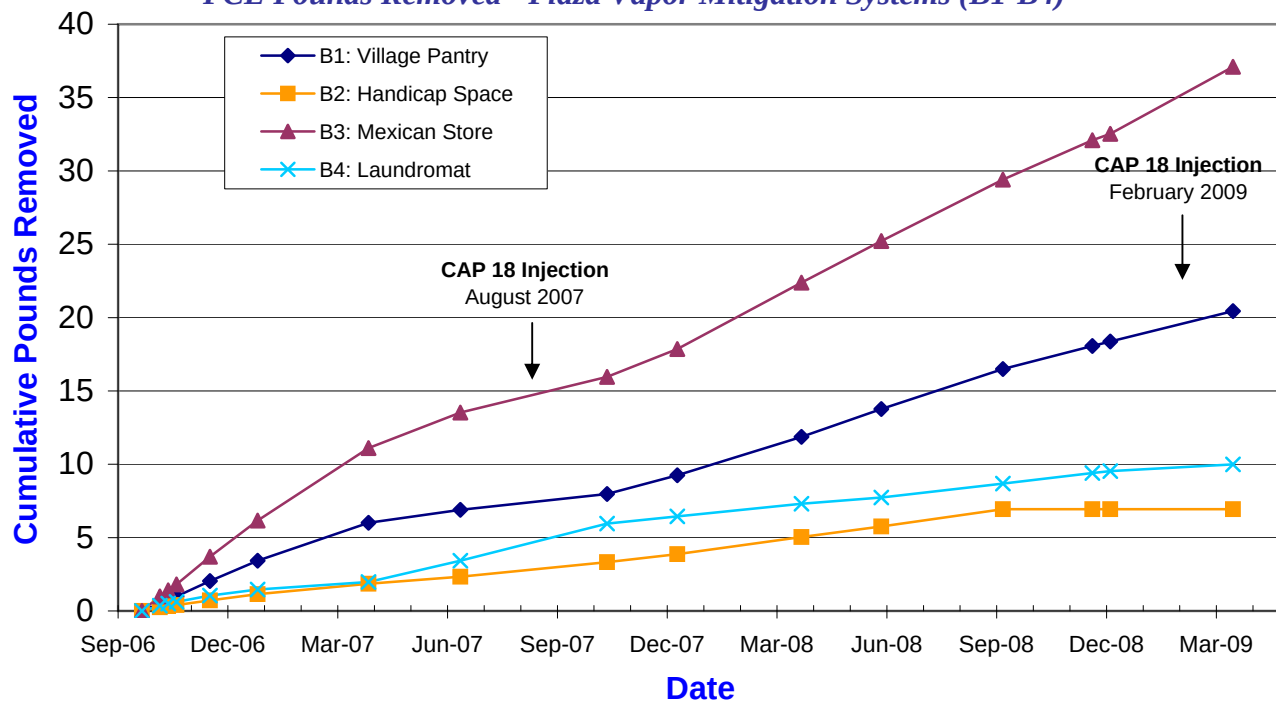
Chemical Pounds Removed - Apartment Building 10 Vapor Mitigation System (B7)



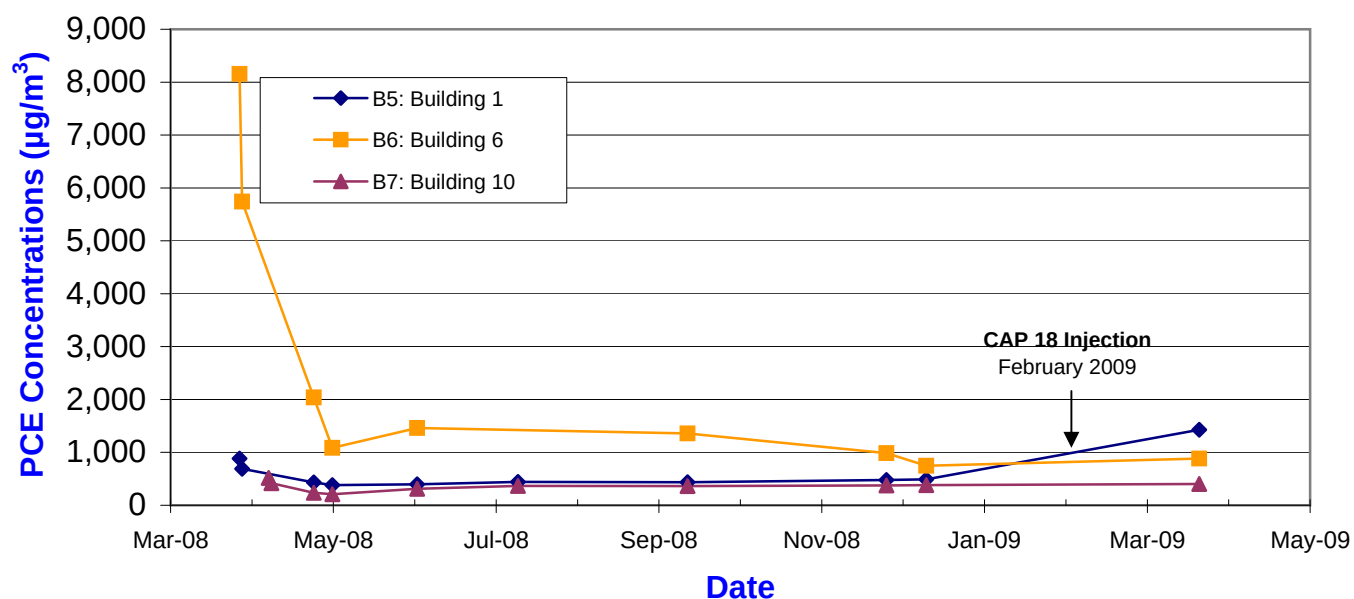
PCE Concentrations Trend - Plaza Vapor Mitigation Systems (B1-B4)



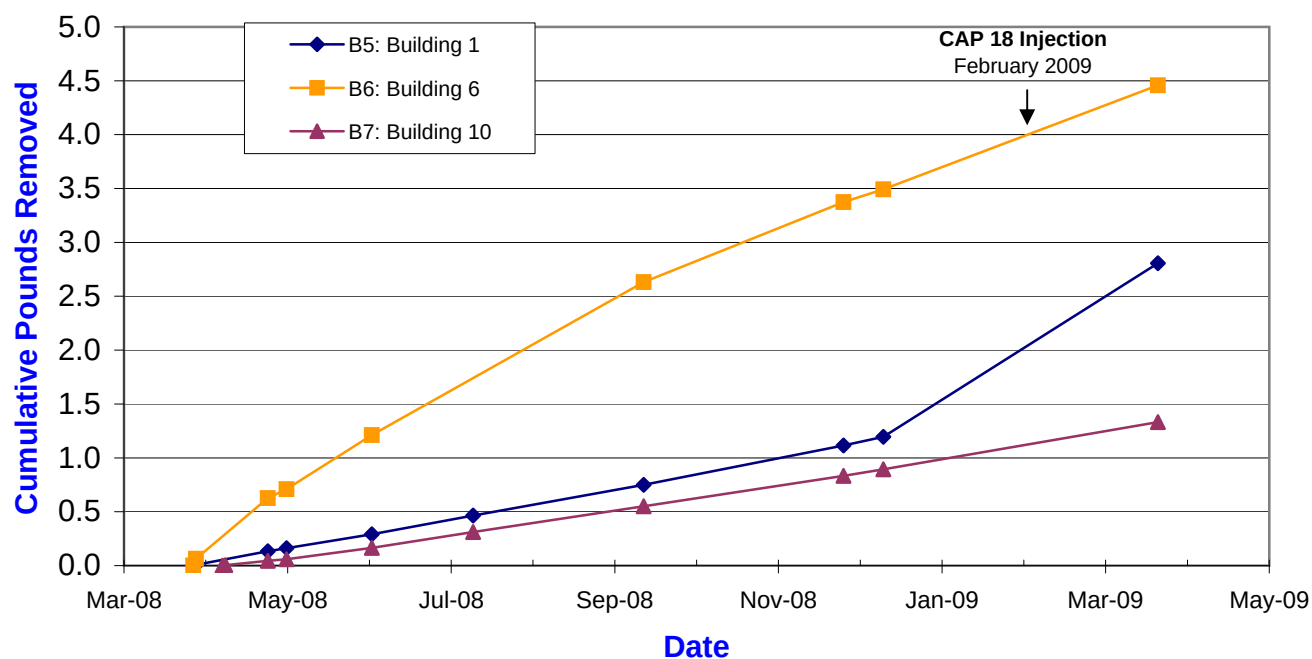
PCE Pounds Removed - Plaza Vapor Mitigation Systems (B1-B4)

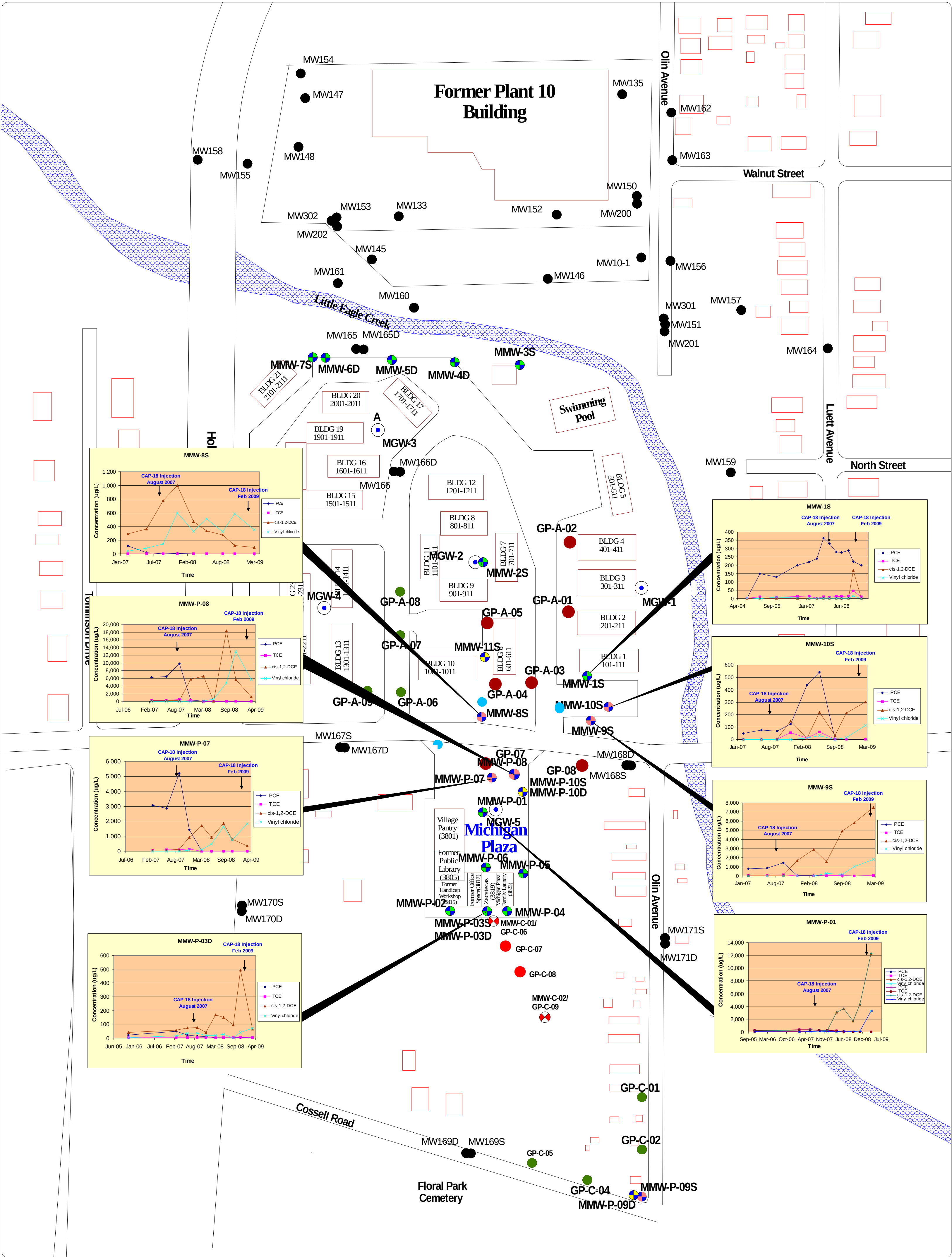


PCE Concentrations Trend - Apartment Vapor Mitigation Systems (B5-B7)



PCE Pounds Removed - Apartment Vapor Mitigation Systems (B5-B7)





LEGEND

- Mundell Test Pit (TP-3) Sampling Locations (April 2005)
- Sewer Excavation Sampling Locations (October 2007)
- Fence
- Sewer Line
- MMW-11S MUNEDELL Monitoring Wells (May-June 2007)
- MW160 Keramida Monitoring Wells
- SS-P-01 MUNEDELL Sewer Sampling Locations/manholes (September & November 2005)
- GP-07 MUNEDELL Soil Boring Locations (September 2005)
- MMW-P-06 MUNEDELL Monitoring Wells, Michigan Plaza (September 2005)
- GP-C-04 MUNEDELL Soil Boring Locations (January 2007)
- MMW-P-07 MUNEDELL Monitoring Wells (January 2007)
- MMW-C-01 MUNEDELL Monitoring Wells (July/August 2008)
- GP-C-06 MUNEDELL Soil Boring Locations (July/August 2008)



SCALE
0 200
feet

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

MUNDELL & ASSOCIATES, INC.

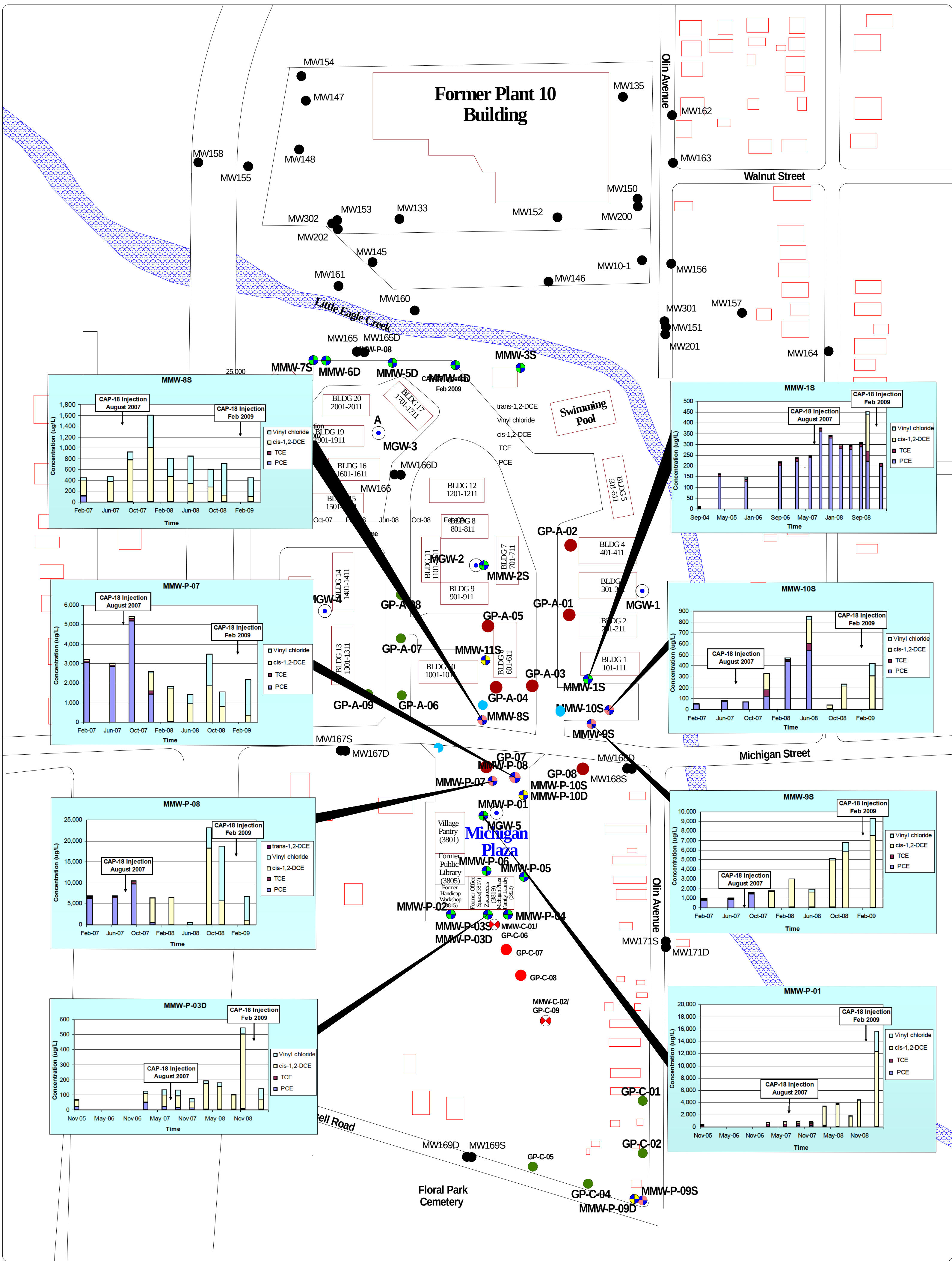
Consulting Professionals for the Earth & Environment

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

Project Number:
M01046
Drawing File:
Base Map.SKF
Date Prepared:
6/2/2009
Scale:

Indicator Compound Trends in Groundwater
First Quarter 2009
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana

FIGURE
16



LEGEND

- Mundell Test Pit (TP-3) Sampling Locations (April 2005)
- Sewer Excavation Sampling Locations (October 2007)
- Fence
- Sewer Line
- MMW-11S MUNEDELL Monitoring Wells (May-June 2007)
- MW160 Keramida Monitoring Wells
- SS-P-01 MUNEDELL Sewer Sampling Locations/manholes (September & November 2005)
- GP-07 MUNEDELL Soil Boring Locations (September 2005)
- MMW-P-06 MUNEDELL Monitoring Wells, Michigan Plaza (September 2005)
- GP-C-04 MUNEDELL Soil Boring Locations (January 2007)
- MMW-P-07 MUNEDELL Monitoring Wells (January 2007)
- MMW-C-01 MUNEDELL Monitoring Wells (July/August 2008)
- GP-C-06 MUNEDELL Soil Boring Locations (July/August 2008)



SCALE 0 200

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

MUNDELL & ASSOCIATES, INC.

Consulting Professionals for the Earth & Environment

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

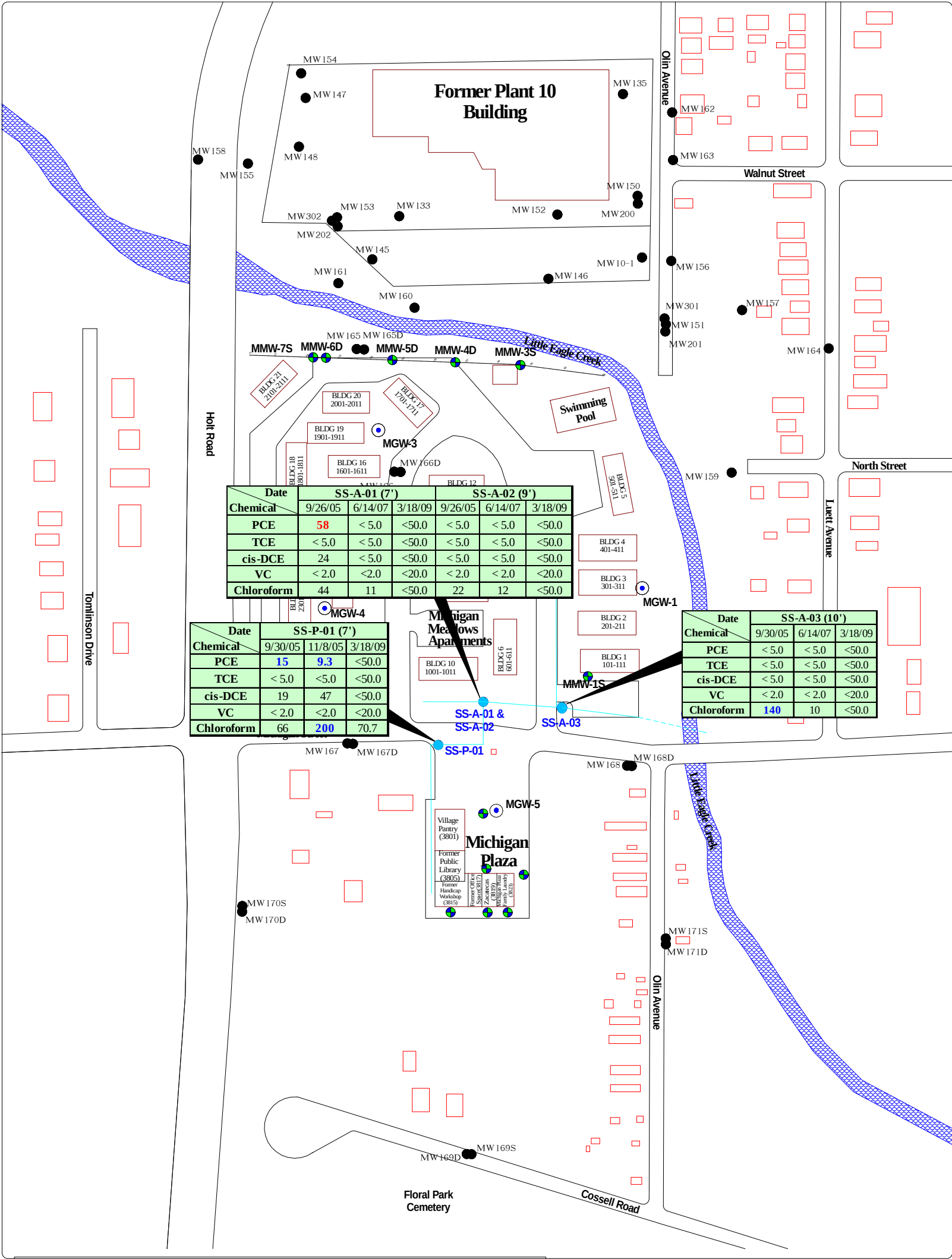
Project Number:
M01046
Drawing File:
Base Map.SKF
Date Prepared:
6/2/2009
Scale:

**Parent and Daughter Products
Distribution in Groundwater**

First Quarter 2009
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana

FIGURE

17



LEGEND

- Fence
- MW 160 Keramida Monitoring Wells
- MMW-P-05 MUNDELL Monitoring Wells (September 2005)
- SS-P-01 MUNDELL Sewer Sampling Locations (September 2005)
- GP-A-04 MUNDELL Soil Boring Locations (September 2005)
- Sewer Line Location

Sampling ID (depth in feet)	
PCE	Tetrachloroethene (ug/l)
TCE	Trichloroethene (ug/l)
cis-DCE	cis-1,2-Dichloroethene (ug/l)
VC	Vinyl Chloride (ug/l)
Chloroform	Chloroform (ug/l)



SCALE 0 200 feet

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

MUNDELL & ASSOCIATES, INC.

Consulting Professionals for the Earth & Environment

429 East Vermont Street, Suite 200
Indianapolis, Indiana 46202-3688
317-630-9060, fax 317-630-9065

Project Number: M01046
Drawing File: Base Map.SKF
Date Prepared: 9/30/09
Scale: 1"=200' ±

SEWER ANALYTICAL RESULTS
Further Site Characterization
Michigan Plaza
3801-3823 West Michigan Avenue
Indianapolis, Indiana

FIGURE
18

APPENDIX A

LAB ANALYTICAL RESULTS

Air Results – March 2009

Soil and Groundwater Results – February 2009

Groundwater Results – March 2009

Client Name: Mundell & Associates
Contact: Leena Lothe
Address: 110 South Downey Avenue
Indianapolis, IN 46219

Page: Page 1 of 7
Lab Proj #: P0903374
Report Date: 04/01/09
Client Proj Name: Michigan Plaza
Client Proj #: M01046

Laboratory Results

Total pages in data package: _____

Lab Sample #	<u>Client Sample ID</u>
P0903374-01	B-1
P0903374-02	B-3
P0903374-03	B-4
P0903374-04	B-5
P0903374-05	B-6
P0903374-06	B-7

Microseeps test results meet all the requirements of the NELAC standards or provide reasons and/or justification if they do not.

Approved By: _____ **Date:** _____

Project Manager: _____ Debbie Hallo

The analytical results reported here are reliable and usable to the precision expressed in this report. As required by some regulating authorities, a full discussion of the uncertainty in our analytical results can be obtained at our web site or through customer service. Unless otherwise specified, all results are reported on a wet weight basis.

*As a valued client we would appreciate your comments on our service.
Please call customer service at (412)826-5245 or email customerservice@microseeps.com.*

Case Narrative:

Client Name: Mundell & Associates
Contact: Leena Lothe
Address: 110 South Downey Avenue
Indianapolis, IN 46219

Page: Page 2 of 7
Lab Proj #: P0903374
Report Date: 04/01/09
Client Proj Name: Michigan Plaza
Client Proj #: M01046

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>	<u>Sampled Date/Time</u>	<u>Received</u>		
B-1	Vapor	P0903374-01	24 Mar. 09 15:05	30 Mar. 09 13:43		
Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
<u>RiskAnalysis</u>						
N 1,1,1-Trichloroethane	<0.0050	0.0050	PPMV	AM4.02	4/1/09	mm
N 1,1-Dichloroethane	<0.0200	0.0200	PPMV	AM4.02	4/1/09	mm
N 1,1-Dichloroethene	<0.0100	0.0100	PPMV	AM4.02	4/1/09	mm
N Carbon Tetrachloride	<0.0050	0.0050	PPMV	AM4.02	4/1/09	mm
N Chloroform	0.0100	0.0050	PPMV	AM4.02	4/1/09	mm
N cis-1,2-Dichloroethene	<0.0200	0.0200	PPMV	AM4.02	4/1/09	mm
N Methylene Chloride	<2.0000	2.0000	PPMV	AM4.02	4/1/09	mm
N Tetrachloroethene	0.4500	0.0100	PPMV	AM4.02	4/1/09	mm
N trans-1,2-Dichloroethene	<0.0100	0.0100	PPMV	AM4.02	4/1/09	mm
N Trichloroethene	<0.0100	0.0100	PPMV	AM4.02	4/1/09	mm
N Vinyl Chloride	<1.0000	1.0000	PPMV	AM4.02	4/1/09	mm



N - NELAC certified analysis

Client Name: Mundell & Associates
 Contact: Leena Lothe
 Address: 110 South Downey Avenue
 Indianapolis, IN 46219

Page: Page 3 of 7
 Lab Proj #: P0903374
 Report Date: 04/01/09
 Client Proj Name: Michigan Plaza
 Client Proj #: M01046

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>	<u>Sampled Date/Time</u>	<u>Received</u>		
B-3	Vapor	P0903374-02	24 Mar. 09 14:50	30 Mar. 09 13:43		
Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
<u>RiskAnalysis</u>						
N 1,1,1-Trichloroethane	<0.0050	0.0050	PPMV	AM4.02	4/1/09	mm
N 1,1-Dichloroethane	<0.0200	0.0200	PPMV	AM4.02	4/1/09	mm
N 1,1-Dichloroethene	<0.0100	0.0100	PPMV	AM4.02	4/1/09	mm
N Carbon Tetrachloride	<0.0050	0.0050	PPMV	AM4.02	4/1/09	mm
N Chloroform	<0.0050	0.0050	PPMV	AM4.02	4/1/09	mm
N cis-1,2-Dichloroethene	<0.0200	0.0200	PPMV	AM4.02	4/1/09	mm
N Methylene Chloride	<2.0000	2.0000	PPMV	AM4.02	4/1/09	mm
N Tetrachloroethene	0.5500	0.0100	PPMV	AM4.02	4/1/09	mm
N trans-1,2-Dichloroethene	<0.0100	0.0100	PPMV	AM4.02	4/1/09	mm
N Trichloroethene	<0.0100	0.0100	PPMV	AM4.02	4/1/09	mm
N Vinyl Chloride	<1.0000	1.0000	PPMV	AM4.02	4/1/09	mm



N - NELAC certified analysis

Client Name: Mundell & Associates
 Contact: Leena Lothe
 Address: 110 South Downey Avenue
 Indianapolis, IN 46219

Page: Page 4 of 7
 Lab Proj #: P0903374
 Report Date: 04/01/09
 Client Proj Name: Michigan Plaza
 Client Proj #: M01046

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>	<u>Sampled Date/Time</u>	<u>Received</u>		
B-4	Vapor	P0903374-03	24 Mar. 09 14:37	30 Mar. 09 13:43		
Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
<u>RiskAnalysis</u>						
N 1,1,1-Trichloroethane	<0.0050	0.0050	PPMV	AM4.02	4/1/09	mm
N 1,1-Dichloroethane	<0.0200	0.0200	PPMV	AM4.02	4/1/09	mm
N 1,1-Dichloroethene	<0.0100	0.0100	PPMV	AM4.02	4/1/09	mm
N Carbon Tetrachloride	<0.0050	0.0050	PPMV	AM4.02	4/1/09	mm
N Chloroform	<0.0050	0.0050	PPMV	AM4.02	4/1/09	mm
N cis-1,2-Dichloroethene	<0.0200	0.0200	PPMV	AM4.02	4/1/09	mm
N Methylene Chloride	<2.0000	2.0000	PPMV	AM4.02	4/1/09	mm
N Tetrachloroethene	<0.0100	0.0100	PPMV	AM4.02	4/1/09	mm
N trans-1,2-Dichloroethene	<0.0100	0.0100	PPMV	AM4.02	4/1/09	mm
N Trichloroethene	<0.0100	0.0100	PPMV	AM4.02	4/1/09	mm
N Vinyl Chloride	<1.0000	1.0000	PPMV	AM4.02	4/1/09	mm



N - NELAC certified analysis

Client Name: Mundell & Associates
Contact: Leena Lothe
Address: 110 South Downey Avenue
Indianapolis, IN 46219

Page: Page 5 of 7
Lab Proj #: P0903374
Report Date: 04/01/09
Client Proj Name: Michigan Plaza
Client Proj #: M01046

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>	<u>Sampled Date/Time</u>	<u>Received</u>		
B-5	Vapor	P0903374-04	24 Mar. 09 15:41	30 Mar. 09 13:43		
Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
<u>RiskAnalysis</u>						
N 1,1,1-Trichloroethane	<0.0050	0.0050	PPMV	AM4.02	4/1/09	mm
N 1,1-Dichloroethane	<0.0200	0.0200	PPMV	AM4.02	4/1/09	mm
N 1,1-Dichloroethene	<0.0100	0.0100	PPMV	AM4.02	4/1/09	mm
N Carbon Tetrachloride	<0.0050	0.0050	PPMV	AM4.02	4/1/09	mm
N Chloroform	<0.0050	0.0050	PPMV	AM4.02	4/1/09	mm
N cis-1,2-Dichloroethene	<0.0200	0.0200	PPMV	AM4.02	4/1/09	mm
N Methylene Chloride	<2.0000	2.0000	PPMV	AM4.02	4/1/09	mm
N Tetrachloroethene	0.2100	0.0100	PPMV	AM4.02	4/1/09	mm
N trans-1,2-Dichloroethene	<0.0100	0.0100	PPMV	AM4.02	4/1/09	mm
N Trichloroethene	<0.0100	0.0100	PPMV	AM4.02	4/1/09	mm
N Vinyl Chloride	<1.0000	1.0000	PPMV	AM4.02	4/1/09	mm



N - NELAC certified analysis

Client Name: Mundell & Associates
Contact: Leena Lothe
Address: 110 South Downey Avenue
Indianapolis, IN 46219

Page: Page 6 of 7
Lab Proj #: P0903374
Report Date: 04/01/09
Client Proj Name: Michigan Plaza
Client Proj #: M01046

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>	<u>Sampled Date/Time</u>	<u>Received</u>		
B-6	Vapor	P0903374-05	24 Mar. 09 15:50	30 Mar. 09 13:43		
Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
<u>RiskAnalysis</u>						
N 1,1,1-Trichloroethane	<0.0050	0.0050	PPMV	AM4.02	4/1/09	mm
N 1,1-Dichloroethane	<0.0200	0.0200	PPMV	AM4.02	4/1/09	mm
N 1,1-Dichloroethene	<0.0100	0.0100	PPMV	AM4.02	4/1/09	mm
N Carbon Tetrachloride	<0.0050	0.0050	PPMV	AM4.02	4/1/09	mm
N Chloroform	<0.0050	0.0050	PPMV	AM4.02	4/1/09	mm
N cis-1,2-Dichloroethene	<0.0200	0.0200	PPMV	AM4.02	4/1/09	mm
N Methylene Chloride	<2.0000	2.0000	PPMV	AM4.02	4/1/09	mm
N Tetrachloroethene	0.1300	0.0100	PPMV	AM4.02	4/1/09	mm
N trans-1,2-Dichloroethene	<0.0100	0.0100	PPMV	AM4.02	4/1/09	mm
N Trichloroethene	<0.0100	0.0100	PPMV	AM4.02	4/1/09	mm
N Vinyl Chloride	<1.0000	1.0000	PPMV	AM4.02	4/1/09	mm



N - NELAC certified analysis

Client Name: Mundell & Associates
 Contact: Leena Lothe
 Address: 110 South Downey Avenue
 Indianapolis, IN 46219

Page: Page 7 of 7
 Lab Proj #: P0903374
 Report Date: 04/01/09
 Client Proj Name: Michigan Plaza
 Client Proj #: M01046

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>	<u>Sampled Date/Time</u>	<u>Received</u>		
B-7	Vapor	P0903374-06	24 Mar. 09 15:59	30 Mar. 09 13:43		
Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
<u>RiskAnalysis</u>						
N 1,1,1-Trichloroethane	<0.0050	0.0050	PPMV	AM4.02	4/1/09	mm
N 1,1-Dichloroethane	<0.0200	0.0200	PPMV	AM4.02	4/1/09	mm
N 1,1-Dichloroethene	<0.0100	0.0100	PPMV	AM4.02	4/1/09	mm
N Carbon Tetrachloride	<0.0050	0.0050	PPMV	AM4.02	4/1/09	mm
N Chloroform	<0.0050	0.0050	PPMV	AM4.02	4/1/09	mm
N cis-1,2-Dichloroethene	<0.0200	0.0200	PPMV	AM4.02	4/1/09	mm
N Methylene Chloride	<2.0000	2.0000	PPMV	AM4.02	4/1/09	mm
N Tetrachloroethene	0.0590	0.0100	PPMV	AM4.02	4/1/09	mm
N trans-1,2-Dichloroethene	<0.0100	0.0100	PPMV	AM4.02	4/1/09	mm
N Trichloroethene	<0.0100	0.0100	PPMV	AM4.02	4/1/09	mm
N Vinyl Chloride	<1.0000	1.0000	PPMV	AM4.02	4/1/09	mm



N - NELAC certified analysis

TO-15 Air Sampling Results
Michigan Apartments/Plaza
Indianapolis, IN
Collected: February 26-27, 2009

Sample # 1 Canister # 108980		Start: 09:32 – 2/26/09		Stop: 10:25 – 2/27/09	
Sample Type: BREATHING ZONE - AMBIENT				Sample Location: East Fence Line by Bldg. 1	
Analyte	Results - µg/m ³ (ppbv)	Indoor Air Action Levels - µg/m ³ (ppbv)			
		Sub-Chronic	Chronic		
		1-Year	5-Year	25-Year	
Vinyl Chloride	<0.13 (<0.050)	220 (86)	45 (18)	8.9 (3.5)	
cis-1,2-Dichloroethene	<0.20 (<0.050)	NE	51 (13)	51 (13)	
Trichloroethene (TCE)	<0.27 (<0.050)	200 (37)	40 (7.4)	7.9 (1.5)	
Tetrachloroethene (PCE)	<0.34 (<0.050)	170 (25)	34 (5)	6.8 (1)	

NOTES: µg/m³ = micrograms per cubic meter; ppbv = parts per billion by volume; NE = None Established
Reference: IDEM Draft Vapor Intrusion Pilot Program Guidance; APPENDIX VIII, Table 3: "Indoor Action Levels – Commercial"

Environmental Parameters		Carbon Monoxide (ppm)	Carbon Dioxide (ppm)	Temperature (°F)	Relative Humidity (%)
Start Date/Time	2-26-09 / 09:32	3.4	416	46.5	82.5
Stop Date/Time	2-27-09 / 10:25	0.0	391	37.8	72.6



TO-15 Air Sampling Results
Michigan Apartments/Plaza
Indianapolis, IN
Collected: February 26-27, 2009

Sample # 2 Canister # 107009	Start: 09:36 – 2/26/09 Stop: 10:43 – 2/27/09			
Sample Type: BREATHING ZONE Sample Location: Bldg. 1, Apt. 108, Daughter’s Room				
Analyte	Results - µg/m³ (ppbv)	Indoor Air Action Levels - µg/m³ (ppbv)		
		Sub-Chronic	Chronic	
		1-Year	5-Year	25-Year
Vinyl Chloride	<0.13 (<0.050)	220 (86)	45 (18)	8.9 (3.5)
cis-1,2-Dichloroethene	<0.20 (<0.050)	NE	51 (13)	51 (13)
Trichloroethene (TCE)	<0.27 (<0.050)	200 (37)	40 (7.4)	7.9 (1.5)
Tetrachloroethene (PCE)	27 (3.9)	170 (25)	34 (5)	6.8 (1)

NOTES: $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter; ppbv = parts per billion by volume; NE = None Established
Reference: IDEM Draft Vapor Intrusion Pilot Program Guidance; APPENDIX VIII, Table 3: "Indoor Action Levels – Commercial"

Environmental Parameters		Carbon Monoxide (ppm)	Carbon Dioxide (ppm)	Temperature (°F)	Relative Humidity (%)
Start Date/Time	2-26-09 / 09:36	6.9	1860	68.0	56.6
Stop Date/Time	2-27-09 / 10:43	4.6	530	64.0	44.0



TO-15 Air Sampling Results
Michigan Apartments/Plaza
Indianapolis, IN
Collected: February 26-27, 2009

Sample # 3 Canister # 108692		Start: 09:50 – 2/26/09 Stop: 10:51 – 2/27/09		
Sample Type: BREATHING ZONE Sample Location: Village Pantry				
Analyte	Results - µg/m³ (ppbv)	Indoor Air Action Levels - µg/m³ (ppbv)		
		Sub-Chronic	Chronic	
		1-Year	5-Year	25-Year
Vinyl Chloride	1.2 (0.46)	220 (86)	45 (18)	8.9 (3.5)
cis-1,2-Dichloroethene	<0.20 (<0.050)	NE	51 (13)	51 (13)
Trichloroethene (TCE)	<0.27 (<0.050)	200 (37)	40 (7.4)	7.9 (1.5)
Tetrachloroethene (PCE)	5.7 (0.84)	170 (25)	34 (5)	6.8 (1)

NOTES: $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter; ppbv = parts per billion by volume; NE = None Established
Reference: IDEM Draft Vapor Intrusion Pilot Program Guidance; APPENDIX VIII, Table 3: "Indoor Action Levels – Commercial"

Environmental Parameters		Carbon Monoxide (ppm)	Carbon Dioxide (ppm)	Temperature (°F)	Relative Humidity (%)
Start Date/Time	2-26-09 / 09:50	5.8	1350	65.0	39.8
Stop Date/Time	2-27-09 / 10:51	5.5	1176	68.1	46.0



TO-15 Air Sampling Results
Michigan Apartments/Plaza
Indianapolis, IN
Collected: February 26-27, 2009

Sample # 4 Canister # 107056		Start: 10:00 – 2/26/09			Stop: 11:15 – 2/27/09	
Sample Type: BREATHING ZONE – AMBIENT Sample Location: W. Fence by Village Pantry						
Analyte	Results - µg/m ³ (ppbv)	Indoor Air Action Levels - µg/m ³ (ppbv)				
		Sub-Chronic	Chronic			
		1-Year	5-Year	25-Year		
Vinyl Chloride	<0.13 (<0.050)	220 (86)	45 (18)	8.9 (3.5)		
cis-1,2-Dichloroethene	<0.20 (<0.050)	NE	51 (13)	51 (13)		
Trichloroethene (TCE)	<0.27 (<0.050)	200 (37)	40 (7.4)	7.9 (1.5)		
Tetrachloroethene (PCE)	<0.34 (<0.050)	170 (25)	34 (5)	6.8 (1)		

NOTES: $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter; ppbv = parts per billion by volume; NE = None Established
Reference: IDEM Draft Vapor Intrusion Pilot Program Guidance; APPENDIX VIII, Table 3: "Indoor Action Levels – Commercial"

Environmental Parameters		Carbon Monoxide (ppm)	Carbon Dioxide (ppm)	Temperature (°F)	Relative Humidity (%)
Start Date/Time	2-26-09 / 10:00	3.4	402	47.0	82.5
Stop Date/Time	2-27-09 / 11:15	0.0	374	36.6	69.0



TO-15 Air Sampling Results
Michigan Apartments/Plaza
Indianapolis, IN
Collected: February 26-27, 2009

Sample # 5 Canister # 108016		Start: 10:13 – 2/26/09 Stop: 10:58 – 2/27/09		
Sample Type: BREATHING ZONE Sample Location: 3815 W. Michigan Suite				
Analyte	Results - µg/m ³ (ppbv)	Indoor Air Action Levels - µg/m ³ (ppbv)		
		Sub-Chronic	Chronic	
		1-Year	5-Year	25-Year
Vinyl Chloride	0.13 (0.051)	220 (86)	45 (18)	8.9 (3.5)
cis-1,2-Dichloroethene	<0.20 (<0.050)	NE	51 (13)	51 (13)
Trichloroethene (TCE)	<0.27 (<0.050)	200 (37)	40 (7.4)	7.9 (1.5)
Tetrachloroethene (PCE)	12 (1.8)	170 (25)	34 (5)	6.8 (1)

NOTES: $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter; ppbv = parts per billion by volume; NE = None Established
Reference: IDEM Draft Vapor Intrusion Pilot Program Guidance; APPENDIX VIII, Table 3: "Indoor Action Levels – Commercial"

Environmental Parameters		Carbon Monoxide (ppm)	Carbon Dioxide (ppm)	Temperature (°F)	Relative Humidity (%)
Start Date/Time	2-26-09 / 10:13	3.2	436	48.3	72.5
Stop Date/Time	2-27-09 / 10:58	2.1	402	48.2	78.2



TO-15 Air Sampling Results
Michigan Apartments/Plaza
Indianapolis, IN
Collected: February 26-27, 2009

Sample # 6 Canister # 108812		Start: 10:24 – 2/26/09 Stop: 11:07 – 2/27/09		
Sample Type: BREATHING ZONE Sample Location: 3819 W. Mich. Zacateca’s Grocery				
Analyte	Results - µg/m ³ (ppbv)	Indoor Air Action Levels - µg/m ³ (ppbv)		
		Sub-Chronic	Chronic	
		1-Year	5-Year	25-Year
Vinyl Chloride	<0.13 (<0.050)	220 (86)	45 (18)	8.9 (3.5)
cis-1,2-Dichloroethene	<0.20 (<0.050)	NE	51 (13)	51 (13)
Trichloroethene (TCE)	<0.27 (<0.050)	200 (37)	40 (7.4)	7.9 (1.5)
Tetrachloroethene (PCE)	2.8 (0.41)	170 (25)	34 (5)	6.8 (1)

NOTES: $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter; ppbv = parts per billion by volume; NE = None Established
Reference: IDEM Draft Vapor Intrusion Pilot Program Guidance; APPENDIX VIII, Table 3: "Indoor Action Levels – Commercial"

Environmental Parameters		Carbon Monoxide (ppm)	Carbon Dioxide (ppm)	Temperature (°F)	Relative Humidity (%)
Start Date/Time	2-26-09 / 10:24	5.4	714	66.7	45.2
Stop Date/Time	2-27-09 / 11:07	9.4	671	64.4	36.0



TO-15 Air Sampling Results
Michigan Apartments/Plaza
Indianapolis, IN
Collected: February 26-27, 2009

Sample # 7 Canister # 108885		Start: 10:45 – 2/26/09 Stop: 10:21 – 2/27/09		
Sample Type: BREATHING ZONE Sample Location: Basement Bldg. 1, Apt. 101				
Analyte	Results - µg/m ³ (ppbv)	Indoor Air Action Levels - µg/m ³ (ppbv)		
		Sub-Chronic	Chronic	
		1-Year	5-Year	25-Year
Vinyl Chloride	<0.13 (<0.050)	220 (86)	45 (18)	8.9 (3.5)
cis-1,2-Dichloroethene	<0.20 (<0.050)	NE	51 (13)	51 (13)
Trichloroethene (TCE)	<0.27 (<0.050)	200 (37)	40 (7.4)	7.9 (1.5)
Tetrachloroethene (PCE)	1.6 (0.23)	170 (25)	34 (5)	6.8 (1)

NOTES: $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter; ppbv = parts per billion by volume; NE = None Established
Reference: IDEM Draft Vapor Intrusion Pilot Program Guidance; APPENDIX VIII, Table 3: "Indoor Action Levels – Commercial"

Environmental Parameters		Carbon Monoxide (ppm)	Carbon Dioxide (ppm)	Temperature (°F)	Relative Humidity (%)
Start Date/Time	2-26-09 / 10:45	4.4	760	59.5	54.0
Stop Date/Time	2-27-09 / 10:21	4.6	572	65.5	38.6



TO-15 Air Sampling Results
Michigan Apartments/Plaza
Indianapolis, IN
Collected: February 26-27, 2009

Sample # 8 Canister # 108678		Start: 10:54 – 2/26/09 Stop: 10:28 – 2/27/09		
Sample Type: BREATHING ZONE Sample Location: Basement Bldg. 6, Apt. 602				
Analyte	Results - µg/m ³ (ppbv)	Indoor Air Action Levels - µg/m ³ (ppbv)		
		Sub-Chronic	Chronic	
		1-Year	5-Year	25-Year
Vinyl Chloride	<0.13 (<0.050)	220 (86)	45 (18)	8.9 (3.5)
cis-1,2-Dichloroethene	<0.20 (<0.050)	NE	51 (13)	51 (13)
Trichloroethene (TCE)	<0.27 (<0.050)	200 (37)	40 (7.4)	7.9 (1.5)
Tetrachloroethene (PCE)	3.1 (0.45)	170 (25)	34 (5)	6.8 (1)

NOTES: $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter; ppbv = parts per billion by volume; NE = None Established
Reference: IDEM Draft Vapor Intrusion Pilot Program Guidance; APPENDIX VIII, Table 3: "Indoor Action Levels – Commercial"

Environmental Parameters		Carbon Monoxide (ppm)	Carbon Dioxide (ppm)	Temperature (°F)	Relative Humidity (%)
Start Date/Time	2-26-09 / 10:54	5.0	491	67.5	42.2
Stop Date/Time	2-27-09 / 10:28	13.5	929	66.5	49.6



TO-15 Air Sampling Results
Michigan Apartments/Plaza
Indianapolis, IN
Collected: February 26-27, 2009

Sample # 9 Canister # 107105		Start: 11:00 – 2/26/09 Stop: 10:47 – 2/27/09		
Sample Type: BREATHING ZONE Sample Location: Basement Bldg. 10, Apt. 1001				
Analyte	Results - µg/m ³ (ppbv)	Indoor Air Action Levels - µg/m ³ (ppbv)		
		Sub-Chronic	Chronic	
		1-Year	5-Year	25-Year
Vinyl Chloride	<0.13 (<0.050)	220 (86)	45 (18)	8.9 (3.5)
cis-1,2-Dichloroethene	<0.20 (<0.050)	NE	51 (13)	51 (13)
Trichloroethene (TCE)	<0.27 (<0.050)	200 (37)	40 (7.4)	7.9 (1.5)
Tetrachloroethene (PCE)	6.7 (0.99)	170 (25)	34 (5)	6.8 (1)

NOTES: $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter; ppbv = parts per billion by volume; NE = None Established
Reference: IDEM Draft Vapor Intrusion Pilot Program Guidance; APPENDIX VIII, Table 3: "Indoor Action Levels – Commercial"

Environmental Parameters		Carbon Monoxide (ppm)	Carbon Dioxide (ppm)	Temperature (°F)	Relative Humidity (%)
Start Date/Time	2-26-09 / 11:00	2.7	538	62.2	62.5
Stop Date/Time	2-27-09 / 10:47	3.6	740	67.4	52.0



TO-15 Air Sampling Results
Michigan Apartments/Plaza
Indianapolis, IN
Collected: February 26-27, 2009

Sample # 10 Canister # 107110		Start: 11:08 – 2/26/09			Stop: 11:10 – 2/27/09	
Sample Type: BREATHING ZONE Sample Location: Family Laundry						
Analyte	Results - µg/m ³ (ppbv)	Indoor Air Action Levels - µg/m ³ (ppbv)				
		Sub-Chronic	Chronic			
		1-Year	5-Year	25-Year		
Vinyl Chloride	<0.13 (<0.050)	220 (86)	45 (18)	8.9 (3.5)		
cis-1,2-Dichloroethene	<0.20 (<0.050)	NE	51 (13)	51 (13)		
Trichloroethene (TCE)	<0.27 (<0.050)	200 (37)	40 (7.4)	7.9 (1.5)		
Tetrachloroethene (PCE)	0.90 (0.13)	170 (25)	34 (5)	6.8 (1)		

NOTES: $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter; ppbv = parts per billion by volume; NE = None Established
Reference: IDEM Draft Vapor Intrusion Pilot Program Guidance; APPENDIX VIII, Table 3: "Indoor Action Levels – Commercial"

Environmental Parameters		Carbon Monoxide (ppm)	Carbon Dioxide (ppm)	Temperature (°F)	Relative Humidity (%)
Start Date/Time	2-26-09 / 11:08	5.2	652	63.6	48.4
Stop Date/Time	2-27-09 / 11:10	4.2	875	66.4	33.1



TO-15 Air Sampling Results
Michigan Apartments/Plaza
Indianapolis, IN
Collected: February 26-27, 2009

Sample # 11 Canister # 108816		Start: 11:26 – 2/26/09			Stop: 11:30 – 2/26/09	
Sample Type: GAS WELL		Sample Location: Village Pantry Parking Lot; MGW-5				
Analyte	Results - µg/m ³ (ppbv)	Prompt Action Levels - µg/m ³ (ppbv)				
		Sub-Chronic		Chronic		
		1-Year	5-Year	25-Year		
Vinyl Chloride	2000 (790)	2200 (860)	450 (180)	89 (35)		
cis-1,2-Dichloroethene	1300 (330)	NE	510 (130)	510 (130)		
Trichloroethene (TCE)	5800 (1100)	2000 (370)	400 (74)	79 (15)		
Tetrachloroethene (PCE)	14000 (2100)	1700 (250)	340 (50)	68 (10)		

NOTES: $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter; ppbv = parts per billion by volume; NE = None Established

Reference: IDEM Draft Vapor Intrusion Pilot Program Guidance; APPENDIX VIII, Table 3; According to IDEM guidance (page 20 of Guidance Document), sub-slab screening levels for these contaminants should be determined by multiplying their associated indoor air action levels by a factor of 10.

Environmental Parameters		Carbon Monoxide (ppm)	Carbon Dioxide (ppm)	Temperature (°F)	Relative Humidity (%)
Start Date/Time	2-26-09 / 11:26	2.4	362	49.5	77.3



TO-15 Air Sampling Results
Michigan Apartments/Plaza
Indianapolis, IN
Collected: February 26-27, 2009

Sample # 12 Canister # 108738		Start: 11:40 – 2/26/09			Stop: 11:44 – 2/26/09	
Sample Type: GAS WELL		Sample Location: Michigan Apartments; MGW-3				
Analyte	Results - µg/m³ (ppbv)	Prompt Action Levels - µg/m³ (ppbv)				
		Sub-Chronic		Chronic		
		1-Year	5-Year	25-Year		
Vinyl Chloride	0.73 (0.29)	2200 (860)	450 (180)	89 (35)		
cis-1,2-Dichloroethene	4.4 (1.1)	NE	510 (130)	510 (130)		
Trichloroethene (TCE)	40 (7.4)	2000 (370)	400 (74)	79 (15)		
Tetrachloroethene (PCE)	270 (40)	1700 (250)	340 (50)	68 (10)		

NOTES: $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter; ppbv = parts per billion by volume; NE = None Established

Reference: IDEM Draft Vapor Intrusion Pilot Program Guidance; APPENDIX VIII, Table 3; According to IDEM guidance (page 20 of Guidance Document), sub-slab screening levels for these contaminants should be determined by multiplying their associated indoor air action levels by a factor of 10.

Environmental Parameters		Carbon Monoxide (ppm)	Carbon Dioxide (ppm)	Temperature (°F)	Relative Humidity (%)
Start Date/Time	2-26-09 / 11:40	2.3	402	49.4	80.9



TO-15 Air Sampling Results
Michigan Apartments/Plaza
Indianapolis, IN
Collected: February 26-27, 2009

Sample # 13 Canister # 107109		Start: 11:52 – 2/26/09			Stop: 11:56 – 2/26/09	
Sample Type: GAS WELL		Sample Location: Michigan Apartments; MGW-1				
Analyte	Results - µg/m ³ (ppbv)	Prompt Action Levels - µg/m ³ (ppbv)				
		Sub-Chronic		Chronic		
		1-Year	5-Year	25-Year		
Vinyl Chloride	<0.24 (<0.093)	2200 (860)	450 (180)	89 (35)		
cis-1,2-Dichloroethene	0.80 (0.2)	NE	510 (130)	510 (130)		
Trichloroethene (TCE)	6.8 (1.3)	2000 (370)	400 (74)	79 (15)		
Tetrachloroethene (PCE)	32 (4.8)	1700 (250)	340 (50)	68 (10)		

NOTES: $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter; ppbv = parts per billion by volume; NE = None Established

Reference: IDEM Draft Vapor Intrusion Pilot Program Guidance; APPENDIX VIII, Table 3; According to IDEM guidance (page 20 of Guidance Document), sub-slab screening levels for these contaminants should be determined by multiplying their associated indoor air action levels by a factor of 10.

Environmental Parameters		Carbon Monoxide (ppm)	Carbon Dioxide (ppm)	Temperature (°F)	Relative Humidity (%)
Start Date/Time	2-26-09 / 11:52	3.3	436	49.8	79.2



Report Date: March 10, 2009

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E-mail: rgriffith@workplace-safety.netWorkorder: **9065023**Project ID: **Workpalce Safety & Healt030609**

Purchase Order: K09036

Client Sample ID	Lab ID	Collect Date	Receive Date	Sampling Site
1	9065023001	02/27/09	03/03/09	Michigan Apts/Plaza
2	9065023002	02/27/09	03/03/09	Michigan Apts/Plaza
3	9065023003	02/27/09	03/03/09	Michigan Apts/Plaza
4	9065023004	02/27/09	03/03/09	Michigan Apts/Plaza
5	9065023005	02/27/09	03/03/09	Michigan Apts/Plaza
6	9065023006	02/27/09	03/03/09	Michigan Apts/Plaza
7	9065023007	02/27/09	03/03/09	Michigan Apts/Plaza
8	9065023008	02/27/09	03/03/09	Michigan Apts/Plaza
9	9065023009	02/27/09	03/03/09	Michigan Apts/Plaza
10	9065023010	02/27/09	03/03/09	Michigan Apts/Plaza

Client: Workplace Safety & Health Co.

Project Manager: Rand Potter

Analytical Results

Workorder: 9065023

Sample ID: 1	Matrix: Air	Collected: 2/27/2009
Lab ID: 9065023001	Media: Summa 6 Liter Canister	Received: 3/3/2009
Sampling Site: Michigan Apts/Plaza	Sampling Parameter: NA	

Analysis Method - EPA TO-15

Preparation: Not Applicable		Analysis: EPA TO-15 SIM, Air Batch: IVOA/1016 (HBN: 25506) Analyzed: 3/3/2009 2:36:00 PM		Instr ID: 5972-O Percent Solids: NA	
Analyte	ppb	ug/m ³	RL	Dilution	Qual.
Vinyl chloride	<0.050	<0.13	0.050	1	
cis-1,2-Dichloroethene	<0.050	<0.20	0.050	1	
Trichloroethene	<0.050	<0.27	0.050	1	
Tetrachloroethene	<0.050	<0.34	0.050	1	

Sample ID: 2	Matrix: Air	Collected: 2/27/2009
Lab ID: 9065023002	Media: Summa 6 Liter Canister	Received: 3/3/2009
Sampling Site: Michigan Apts/Plaza	Sampling Parameter: NA	

Analysis Method - EPA TO-15

Preparation: Not Applicable		Analysis: EPA TO-15 SIM, Air Batch: IVOA/1016 (HBN: 25506) Analyzed: 3/3/2009 3:15:00 PM		Instr ID: 5972-O Percent Solids: NA	
Analyte	ppb	ug/m ³	RL	Dilution	Qual.
Vinyl chloride	<0.050	<0.13	0.050	1	
cis-1,2-Dichloroethene	<0.050	<0.20	0.050	1	
Trichloroethene	<0.050	<0.27	0.050	1	
Tetrachloroethene	3.9	27	0.050	1	E

Sample ID: 3	Matrix: Air	Collected: 2/27/2009
Lab ID: 9065023003	Media: Summa 6 Liter Canister	Received: 3/3/2009
Sampling Site: Michigan Apts/Plaza	Sampling Parameter: NA	

Analysis Method - EPA TO-15

Preparation: Not Applicable		Analysis: EPA TO-15 SIM, Air Batch: IVOA/1016 (HBN: 25506) Analyzed: 3/3/2009 3:53:00 PM		Instr ID: 5972-O Percent Solids: NA	
Analyte	ppb	ug/m ³	RL	Dilution	Qual.
Vinyl chloride	0.46	1.2	0.050	1	
cis-1,2-Dichloroethene	<0.050	<0.20	0.050	1	
Trichloroethene	<0.050	<0.27	0.050	1	

Results Continued on Next Page

Client: Workplace Safety & Health Co.

Project Manager: Rand Potter

Analytical Results

Workorder: 9065023

Sample ID: 3	Matrix: Air	Collected: 2/27/2009
Lab ID: 9065023003	Media: Summa 6 Liter Canister	Received: 3/3/2009
Sampling Site: Michigan Apts/Plaza	Sampling Parameter: NA	

Analysis Method - EPA TO-15

Preparation: Not Applicable		Analysis: EPA TO-15 SIM, Air Batch: IVOA/1016 (HBN: 25506) Analyzed: 3/3/2009 3:53:00 PM		Instr ID: 5972-O Percent Solids: NA	
Analyte	ppb	ug/m³	RL	Dilution	Qual.
Tetrachloroethene	0.84	5.7	0.050	1	

Sample ID: 4	Matrix: Air	Collected: 2/27/2009
Lab ID: 9065023004	Media: Summa 6 Liter Canister	Received: 3/3/2009
Sampling Site: Michigan Apts/Plaza	Sampling Parameter: NA	

Analysis Method - EPA TO-15

Preparation: Not Applicable			Analysis: EPA TO-15 SIM, Air Batch: IVOA/1016 (HBN: 25506) Analyzed: 3/3/2009 4:31:00 PM		Instr ID: 5972-O Percent Solids: NA
Analyte	ppb	ug/m³	RL	Dilution	Qual.
Vinyl chloride	<0.050	<0.13	0.050	1	
cis-1,2-Dichloroethene	<0.050	<0.20	0.050	1	
Trichloroethene	<0.050	<0.27	0.050	1	
Tetrachloroethene	<0.050	<0.34	0.050	1	

Sample ID: 5	Matrix: Air	Collected: 2/27/2009
Lab ID: 9065023005	Media: Summa 6 Liter Canister	Received: 3/3/2009
Sampling Site: Michigan Apts/Plaza	Sampling Parameter: NA	

Analysis Method - EPA TO-15

Preparation: Not Applicable		Analysis: EPA TO-15 SIM, Air Batch: IVOA/1016 (HBN: 25506) Analyzed: 3/3/2009 5:09:00 PM		Instr ID: 5972-O Percent Solids: NA	
Analyte	ppb	ug/m³	RL	Dilution	Qual.
Vinyl chloride	0.051	0.13	0.050	1	
cis-1,2-Dichloroethene	<0.050	<0.20	0.050	1	
Trichloroethene	<0.050	<0.27	0.050	1	
Tetrachloroethene	1.8	12	0.050	1	

Client: Workplace Safety & Health Co.

Project Manager: Rand Potter

Analytical Results

Workorder: 9065023

Sample ID: 6	Matrix: Air	Collected: 2/27/2009
Lab ID: 9065023006	Media: Summa 6 Liter Canister	Received: 3/3/2009
Sampling Site: Michigan Apts/Plaza	Sampling Parameter: NA	

Analysis Method - EPA TO-15

Preparation: Not Applicable		Analysis: EPA TO-15 SIM, Air Batch: IVOA/1016 (HBN: 25506) Analyzed: 3/3/2009 5:48:00 PM		Instr ID: 5972-O Percent Solids: NA	
Analyte	ppb	ug/m ³	RL	Dilution	Qual.
Vinyl chloride	<0.050	<0.13	0.050	1	
cis-1,2-Dichloroethene	<0.050	<0.20	0.050	1	
Trichloroethene	<0.050	<0.27	0.050	1	
Tetrachloroethene	0.41	2.8	0.050	1	

Sample ID: 7	Matrix: Air	Collected: 2/27/2009
Lab ID: 9065023007	Media: Summa 6 Liter Canister	Received: 3/3/2009
Sampling Site: Michigan Apts/Plaza	Sampling Parameter: NA	

Analysis Method - EPA TO-15

Preparation: Not Applicable		Analysis: EPA TO-15 SIM, Air Batch: IVOA/1016 (HBN: 25506) Analyzed: 3/3/2009 6:25:00 PM		Instr ID: 5972-O Percent Solids: NA	
Analyte	ppb	ug/m ³	RL	Dilution	Qual.
Vinyl chloride	<0.050	<0.13	0.050	1	
cis-1,2-Dichloroethene	<0.050	<0.20	0.050	1	
Trichloroethene	<0.050	<0.27	0.050	1	
Tetrachloroethene	0.23	1.6	0.050	1	

Sample ID: 8	Matrix: Air	Collected: 2/27/2009
Lab ID: 9065023008	Media: Summa 6 Liter Canister	Received: 3/3/2009
Sampling Site: Michigan Apts/Plaza	Sampling Parameter: NA	

Analysis Method - EPA TO-15

Preparation: Not Applicable		Analysis: EPA TO-15 SIM, Air Batch: IVOA/1016 (HBN: 25506) Analyzed: 3/3/2009 7:02:00 PM		Instr ID: 5972-O Percent Solids: NA	
Analyte	ppb	ug/m ³	RL	Dilution	Qual.
Vinyl chloride	<0.050	<0.13	0.050	1	
cis-1,2-Dichloroethene	<0.050	<0.20	0.050	1	
Trichloroethene	<0.050	<0.27	0.050	1	

Results Continued on Next Page

Client: Workplace Safety & Health Co.

Project Manager: Rand Potter

Analytical Results

Workorder: 9065023

Sample ID: 8	Matrix: Air	Collected: 2/27/2009
Lab ID: 9065023008	Media: Summa 6 Liter Canister	Received: 3/3/2009
Sampling Site: Michigan Apts/Plaza	Sampling Parameter: NA	

Analysis Method - EPA TO-15

Preparation: Not Applicable			Analysis: EPA TO-15 SIM, Air Batch: IVOA/1016 (HBN: 25506) Analyzed: 3/3/2009 7:02:00 PM		Instr ID: 5972-O Percent Solids: NA
Analyte	ppb	ug/m³	RL	Dilution	Qual.
Tetrachloroethene	0.45	3.1	0.050	1	

Sample ID: 9	Matrix: Air	Collected: 2/27/2009
Lab ID: 9065023009	Media: Summa 6 Liter Canister	Received: 3/3/2009
Sampling Site: Michigan Apts/Plaza	Sampling Parameter: NA	

Analysis Method - EPA TO-15

Preparation: Not Applicable		Analysis: EPA TO-15 SIM, Air Batch: IVOA/1016 (HBN: 25506) Analyzed: 3/3/2009 7:41:00 PM		Instr ID: 5972-O Percent Solids: NA	
Analyte	ppb	ug/m³	RL	Dilution	Qual.
Vinyl chloride	<0.050	<0.13	0.050	1	
cis-1,2-Dichloroethene	<0.050	<0.20	0.050	1	
Trichloroethene	<0.050	<0.27	0.050	1	
Tetrachloroethene	0.99	6.7	0.050	1	

Sample ID: 10	Matrix: Air	Collected: 2/27/2009
Lab ID: 9065023010	Media: Summa 6 Liter Canister	Received: 3/3/2009
Sampling Site: Michigan Apts/Plaza	Sampling Parameter: NA	

Analysis Method - EPA TO-15

Preparation: Not Applicable			Analysis: EPA TO-15 SIM, Air Batch: IVOA/1016 (HBN: 25506) Analyzed: 3/3/2009 8:19:00 PM		Instr ID: 5972-O Percent Solids: NA
Analyte	ppb	ug/m³	RL	Dilution	Qual.
Vinyl chloride	<0.050	<0.13	0.050	1	
cis-1,2-Dichloroethene	<0.050	<0.20	0.050	1	
Trichloroethene	<0.050	<0.27	0.050	1	
Tetrachloroethene	0.13	0.90	0.050	1	

Client: Workplace Safety & Health Co.

Project Manager: Rand Potter

Report Authorization

Analysis Method - EPA TO-15

Lisa M. Reid

Analyst

Christopher Q. Coleman

Peer Review

General Lab Comments

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

ALS DataChem is accredited by the State of Utah, Bureau of Laboratory Improvement under NELAP for specific fields of testing as documented in its current scope of accreditation (ID# DATA1) which is available by request or on the internet at <http://health.utah.gov/lab/labimp/labcert/envlabcert.html>. The quality systems implemented in the laboratory apply to all methods performed by ALS DataChem regardless of this current scope of accreditation which does not include performance based methods, modified methods and methods applied to matrices not listed in the methods.

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

Result Symbol Definitions

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

Qualifier Symbol Definitions

U = Qualifier indicates that the analyte was not detected above the MDL.
J = Qualifier Indicates that the analyte value is between the MDL and the RL. It is also used to indicate an estimated value for tentatively identified compounds in mass spectrometry where a 1:1 response is assumed.
E = Qualifier indicates that the analyte result exceeds calibration range.



ANALYTICAL REPORT



Report Date: March 10, 2009

Dick Griffith
Workplace Safety & Health Co.
6314 Rucker Rd., Suite F
Indianapolis, IN 46220

Phone: (317) 281-3917

Fax: (317) 253-9754

E-mail: rgriffith@workplace-safety.net

Workorder: **9065022**

Project ID: **Workplace Safety & Safet030609**

Purchase Order: K09036

Client Sample ID	Lab ID	Collect Date	Receive Date	Sampling Site
11	9065022001	02/27/09	03/03/09	Michigan Apts/Plaza
12	9065022002	02/27/09	03/03/09	Michigan Apts/Plaza
13	9065022003	02/27/09	03/03/09	Michigan Apts/Plaza

Client: Workplace Safety & Health Co.

Project Manager: Rand Potter

Analytical Results

Workorder: 9065022

Sample ID: 11	Matrix: Air	Collected: 2/27/2009
Lab ID: 9065022001	Media: Summa 6 Liter Canister	Received: 3/3/2009
Sampling Site: Michigan Apts/Plaza	Sampling Parameter: NA	

Analysis Method - EPA TO-15

Preparation: Not Applicable			Analysis: EPA TO-15, Air Batch: IVOA/1015 (HBN: 25494) Analyzed: 3/4/2009 12:44:00 PM		Instr ID: 5972-W Percent Solids: NA	
Analyte	ppb	ug/m ³	MDL	RL	Dilution	Qual.
Vinyl chloride	790	2000	1.9	10	20	E
cis-1,2-Dichloroethene	330	1300	3.7	10	20	
Trichloroethene	1100	5800	1.2	10	20	E
Tetrachloroethene	2100	14000	1.8	10	20	E

Sample ID: 12	Matrix: Air	Collected: 2/27/2009
Lab ID: 9065022002	Media: Summa 6 Liter Canister	Received: 3/3/2009
Sampling Site: Michigan Apts/Plaza	Sampling Parameter: NA	

Analysis Method - EPA TO-15

Preparation: Not Applicable			Analysis: EPA TO-15, Air Batch: IVOA/1015 (HBN: 25494) Analyzed: 3/4/2009 2:06:00 PM		Instr ID: 5972-W Percent Solids: NA	
Analyte	ppb	ug/m ³	MDL	RL	Dilution	Qual.
Vinyl chloride	0.29	0.73	0.093	0.50	1	J
cis-1,2-Dichloroethene	1.1	4.4	0.19	0.50	1	
Trichloroethene	7.4	40	0.060	0.50	1	
Tetrachloroethene	40	270	1.8	10	20	

Sample ID: 13	Matrix: Air	Collected: 2/27/2009
Lab ID: 9065022003	Media: Summa 6 Liter Canister	Received: 3/3/2009
Sampling Site: Michigan Apts/Plaza	Sampling Parameter: NA	

Analysis Method - EPA TO-15

Preparation: Not Applicable			Analysis: EPA TO-15, Air Batch: IVOA/1015 (HBN: 25494) Analyzed: 3/4/2009 2:46:00 PM		Instr ID: 5972-W Percent Solids: NA	
Analyte	ppb	ug/m ³	MDL	RL	Dilution	Qual.
Vinyl chloride	<0.093	<0.24	0.093	0.50	1	U
cis-1,2-Dichloroethene	0.2	0.80	0.19	0.50	1	J
Trichloroethene	1.3	6.8	0.060	0.50	1	

Results Continued on Next Page

Client: Workplace Safety & Health Co.

Project Manager: Rand Potter

Analytical Results

Workorder: 9065022

Sample ID: 13	Matrix: Air	Collected: 2/27/2009
Lab ID: 9065022003	Media: Summa 6 Liter Canister	Received: 3/3/2009
Sampling Site: Michigan Apts/Plaza	Sampling Parameter: NA	

Analysis Method - EPA TO-15

Preparation: Not Applicable			Analysis: EPA TO-15, Air Batch: IVOA/1015 (HBN: 25494) Analyzed: 3/4/2009 2:46:00 PM		Instr ID: 5972-W Percent Solids: NA	
Analyte	ppb	ug/m³	MDL	RL	Dilution	Qual.
Tetrachloroethene	4.8	32	0.091	0.50	1	

Report Authorization

Analysis Method - EPA TO-15

<u>Lisa M. Reid</u>	<u>Christopher Q. Coleman</u>
Analyst	Peer Review

General Lab Comments

The results provided in this report relate only to the items tested.
 Samples were received in acceptable condition unless otherwise noted.
 Samples have not been blank corrected unless otherwise noted.
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Result Symbol Definitions

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

Qualifier Symbol Definitions

U = Qualifier indicates that the analyte was not detected above the MDL.
 J = Qualifier Indicates that the analyte value is between the MDL and the RL. It is also used to indicate an estimated value for tentatively identified compounds in mass spectrometry where a 1:1 response is assumed.
 E = Qualifier indicates that the analyte result exceeds calibration range.

TO-15 Air Sampling Results
Michigan Apartments/Plaza
Indianapolis, IN
Collected: March 17-18, 2009

Sample # 090317-01 Canister # 108531		Start: 16:18 – 3/17/09		Stop: 16:09 – 3/18/09	
Sample Type: BREATHING ZONE Sample Location: AA Suite					
Analyte	Results - µg/m ³ (ppbv)	Indoor Air Action Levels - µg/m ³ (ppbv)			
		Sub-Chronic	Chronic		
		1-Year	5-Year	25-Year	
Vinyl Chloride	0.40 (0.16)	220 (86)	45 (18)	8.9 (3.5)	
cis-1,2-Dichloroethene	<0.20 (<0.050)	NE	51 (13)	51 (13)	
Trichloroethene (TCE)	<0.27 (<0.050)	200 (37)	40 (7.4)	7.9 (1.5)	
Tetrachloroethene (PCE)	7.0 (1.0)	170 (25)	34 (5)	6.8 (1)	

NOTES: $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter; ppbv = parts per billion by volume; NE = None Established
Reference: IDEM Draft Vapor Intrusion Pilot Program Guidance; APPENDIX VIII, Table 3: "Indoor Action Levels – Commercial"

Environmental Parameters		Carbon Monoxide (ppm)	Carbon Dioxide (ppm)	Temperature (°F)	Relative Humidity (%)
Start Date/Time	3-17-09 / 16:18	2.7	493	71.0	35.0
Stop Date/Time	3-18-09 / 16:09	4.0	528	65.3	45.5



TO-15 Air Sampling Results
Michigan Apartments/Plaza
Indianapolis, IN
Collected: March 17-18, 2009

Sample # 090317-02 Canister # 107111		Start: 16:22 – 3/17/09			Stop: 15:59 – 3/18/09	
Sample Type: BREATHING ZONE		Sample Location: Former Library Suite				
Analyte	Results - µg/m³ (ppbv)	Indoor Air Action Levels - µg/m³ (ppbv)				
		Sub-Chronic		Chronic		
		1-Year	5-Year	25-Year		
Vinyl Chloride	2.9 (1.1)	220 (86)	45 (18)	8.9 (3.5)		
cis-1,2-Dichloroethene	<0.20 (<0.050)	NE	51 (13)	51 (13)		
Trichloroethene (TCE)	<0.27 (<0.050)	200 (37)	40 (7.4)	7.9 (1.5)		
Tetrachloroethene (PCE)	11 (1.7)	170 (25)	34 (5)	6.8 (1)		

NOTES: $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter; ppbv = parts per billion by volume; NE = None Established
Reference: IDEM Draft Vapor Intrusion Pilot Program Guidance; APPENDIX VIII, Table 3: "Indoor Action Levels – Commercial"

Environmental Parameters		Carbon Monoxide (ppm)	Carbon Dioxide (ppm)	Temperature (°F)	Relative Humidity (%)
Start Date/Time	3-17-09 / 16:22	1.7	375	63.9	47.6
Stop Date/Time	3-18-09 / 15:59	4.0	497	63.3	48.8





ANALYTICAL REPORT



Report Date: March 27, 2009

Dick Griffith
Workplace Safety & Health Co.
6314 Rucker Rd., Suite F
Indianapolis, IN 46220

Phone: (317) 281-3917

Fax: (317) 253-9754

E-mail: rgriffith@workplace-safety.net

Workorder: **9082053**

Project ID: **Workplace Safety 032309**

Purchase Order: K09036

Client Sample ID	Lab ID	Collect Date	Receive Date	Sampling Site
090317-01	9082053001	03/17/09	03/23/09	Mundell-MI Plaza
090317-02	9082053002	03/17/09	03/23/09	Mundell-MI Plaza

Client: Workplace Safety & Health Co.

Project Manager: Rand Potter

Analytical Results

Workorder: **9082053**

Sample ID: **090317-01**
Lab ID: 9082053001
Sampling Site: Mundell-MI Plaza

Matrix: Air
Media: Sulfur Summa 6 Liter Canister
Sampling Parameter: Air Volume 6 L

Collected: 3/17/2009
Received: 3/23/2009

Analysis Method - EPA TO-15

Preparation: Not Applicable			Analysis: EPA TO-15 SIM, Air Batch: IVOA/1029 (HBN: 26332) Analyzed: 3/25/2009 4:38:00 PM		Instr ID: 5972-O Percent Solids: NA
Analyte	ppb	ug/m ³	RL	Dilution	Qual.
Vinyl chloride	0.16	0.40	0.050	1	
cis-1,2-Dichloroethene	<0.050	<0.20	0.050	1	
Trichloroethene	<0.050	<0.27	0.050	1	
Tetrachloroethene	1.0	7.0	0.050	1	

Sample ID: **090317-02**
Lab ID: 9082053002
Sampling Site: Mundell-MI Plaza

Matrix: Air
Media: Sulfur Summa 6 Liter Canister
Sampling Parameter: Air Volume 6 L

Collected: 3/17/2009
Received: 3/23/2009

Analysis Method - EPA TO-15

Preparation: Not Applicable			Analysis: EPA TO-15 SIM, Air Batch: IVOA/1029 (HBN: 26332) Analyzed: 3/25/2009 5:56:00 PM		Instr ID: 5972-O Percent Solids: NA
Analyte	ppb	ug/m ³	RL	Dilution	Qual.
Vinyl chloride	1.1	2.9	0.050	1	
cis-1,2-Dichloroethene	<0.050	<0.20	0.050	1	
Trichloroethene	<0.050	<0.27	0.050	1	
Tetrachloroethene	1.7	11	0.050	1	

Report Authorization

Analysis Method - EPA TO-15

Lisa M. Reid	Thomas J. Masoian
Analyst	Peer Review

Client: Workplace Safety & Health Co.

Project Manager: Rand Potter

General Lab Comments

The results provided in this report relate only to the items tested.
Samples were received in acceptable condition unless otherwise noted.
Samples have not been blank corrected unless otherwise noted.
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Result Symbol Definitions

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

Qualifier Symbol Definitions

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J = Qualifier Indicates that the analyte value is between the MDL and the RL. It is also used to indicate an estimated value for tentatively identified compounds in mass spectrometry where a 1:1 response is assumed.
E = Qualifier indicates that the analyte result exceeds calibration range.

100



9082053

1. ☒ REGULAR Status

☐ RUSH Status Requested - ADDITIONAL CHARGE

RESULTS REQUIRED BY

DATE _____

CONTACT ALS DATACHEM PRIOR TO SENDING SAMPLES

4. Quote No. _____
ALS Project Manager Rand Potter

5. Sample Collection
- | | |
|----------------------|--------------------------|
| Sampling Site | MUNDELL - MICHIGAN PLAZA |
| Industrial Process | Commercial |
| Date of Collection | 3.17.09 |
| Time Collected | 16:18 |
| Date of Shipment | 3.19.09 |
| Chain of Custody No. | |

6. How did you first learn about ALS DataChem?

[illegible]

** 1. $\mu\text{g}/\text{sample}$ 2. mg/m^3 3. ppm 4. % 5. $\mu\text{g}/\text{m}^3$ 6. ppb (other) Please indicate one or more units in the column entitled Units**

Comments PLEASE USE SIM MODE !

7. Chain of Custody (Optional)

Relinquished by	<i>[Signature]</i>	Date/Time	3-19-09 / 2:00 P
Received by	P. Keegan	Date/Time	3/24/09 - 1025
Relinquished by	<i>[Signature]</i>	Date/Time	3/20/09, 1600
Received by	<i>[Signature]</i>	Date/Time	3/23/09 10:20

960 West LeVoy Drive / Salt Lake City, UT 84123

800-356-9135 or 801-266-7700 / FAX: 801-268-9992

ALS DATACHEM

DataChem Laboratories, Inc.

CANISTER CHAIN-OF-CUSTODY AND FIELD DATA RECORD

Client: WORKPLACE SAFETY & HEALTH
 Account No: 7000

Project/Job/Task: K09034 - Mundell / Michigan Plaza

Please do not apply adhesive labels directly on Canisters

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

								DataChem Labs use only
Canister Serial No.:	Date Cleaned	Initial Vacuum (inches of Hg vacuum)	VFR flow rate (ml/min)	Initials:	Field Vacuum before sampling (inches of Hg vacuum)	Final Vacuum after sampling (Inches of Hg vacuum)	Client Sample Identification	Other Client Information
108561	01.28.09	> 25.0		<i>ME</i>	28	0	090317-01	
VFR Serial No.:								
108823	03/13/09		~10.8	<i>ME</i>				

Original Field Sample Chain-of-Custody

Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Reason for Transfer/Storage Location
<i>Nadja Berger</i>	03/13/09 15:10	<i>P. Keegan</i>	3/20/09 1025
<i>Matthew A. Keegan</i>	3/20/09 1600		

Return to:
DataChem Laboratories, Inc.
 960 W. LeVoy Drive
 Salt Lake City, UT 84123
 800-356-9135

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

DataChem Laboratories, Inc.

CANISTER CHAIN-OF-CUSTODY AND FIELD DATA RECORD

Client: WORKPLACE SAFETY & HEALTH
Account No: 7003

Project/Job/Task: K09036 - MURDELL / MICHIGAN PLAZA

Please do not apply adhesive labels directly on Canisters

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

								DataChem Labs use only
Canister Serial No.:	Date Cleaned	Initial Vacuum (inches of Hg vacuum)	VFR flow rate (ml/min)	Initials:	Field Vacuum before sampling (inches of Hg vacuum)	Final Vacuum after sampling (Inches of Hg vacuum)	Client Sample Identification	Other Client Information
107111	03.11.09	> 25.0		<i>[Signature]</i>	28(30)	1.25	090317-02	
VFR Serial No.:								
101777	03.11.09		~ 3.8	<i>[Signature]</i>				

Original Field Sample Chain-of-Custody

Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Reason for Transfer/Storage Location
<i>Nadyla Berger</i>	03/19/09 14:00	<i>P. Keegan</i>	3/20/09 1025
<i>Matthew H. [Signature]</i>	3/20/09 1600		

Return to:
DataChem Laboratories, Inc.
 960 W. LeVoy Drive
 Salt Lake City, UT 84123
 800-356-9135

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



THIS IS NOT AN INVOICE

PSY147892

GALSON LABORATORIES
INDUSTRIAL HYGIENE PREP REQUEST

Requested by Client : 03/20/09
Client Needs Prep : 03/23/09
Ship Prep on : 03/20/09
Account # : 13848
Rent Alliance Member
Prep Address:
Mr. Rand Potter
DataChem Laboratories
960 W. LeVoy Drive
Salt Lake City, UT 84123

Date Prep Sent :
Client Name : DataChem Laboratories
PO#/Project # :
Client Project / Task-Dept :

* Bill Prep To :
Mr. Richard Griffith
Workplace Safety & Health Co.
11715 Fox Road, Suite 400
PMB 225
Indianapolis, IN 46236

Residential: N Leave w/out Sig: N
Ship via : UPS Next Day Air
Charge to: 8T34T0/Proj#K09036

Client phone : 800-356-9135
Client Contact by: Charlene Moser

Preparations Required					
QTY.	Sampling Media	Method, SOP #, Lot #	Analyte(s)	CHARGES	
				Unit	Final
2	INSTRUCTIONS;	Send samples Send samples	Forward samples + paperwork from Workplace Safety	0.00	0.00
1	ACCESSORY	Send samples CHAIN-OF-CUSTODY FORMS			

Number of Return Labels:	Shipping Charge = \$	0.00
	* Total Charges = \$	0.00

* All orders will be billed on the day of processing.
Shipping costs are an estimate and are subject to change once actual cost is verified.

Comments/Special Instructions :
Forwarding samples to DataChem

Reviewed By : _____ Date : _____
Galson Laboratories, 6601 Kirkville Road, East Syracuse, New York 13057 315-432-5227 03/20/2009 11:41:29
Return Shipment Barcode:

DataChem Laboratories, Inc.

CANISTER CHAIN-OF-CUSTODY AND FIELD DATA RECORD

Client: WORKPLACE SAFETY & HEALTH
 Account No: 7003

Project/Job/Task: _____

Please do not apply adhesive labels directly on Canisters

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

Canister Serial No.:	Date Cleaned	Initial Vacuum (inches of Hg vacuum)	VFR flow rate (ml/min)	Initials:	Field Vacuum before sampling (inches of Hg vacuum)	Final Vacuum after sampling (Inches of Hg vacuum)	Client Sample Identification	Other Client Information	DataChem Labs use only
107105	02.23.09	>25.0		<i>MR</i>	30	0	#9		
107110					30	0	#10		
108885					30	0	#7		
VFR Serial No.:									
107113 } 30 mm	02.23.09		~180.0	<i>MR</i>					
108936 }									
107047 }									

Original Field Sample Chain-of-Custody				Return to:
Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Reason for Transfer/Storage Location	DataChem Laboratories, Inc.
<i>MR</i>	02/24/09 11:55	<i>[Signature]</i>		960 W. LeVoy Drive
		<i>[Signature]</i>		Salt Lake City, UT 84123
				800-356-9135

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

DataChem Laboratories, Inc.
CANISTER CHAIN-OF-CUSTODY AND FIELD DATA RECORD

Client: WORKPLACE SAFETY & HEALTH

Account No: 7003

Project/Job/Task: Michigan Apts / Plaza

Please do not apply adhesive labels directly on Canisters

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

DataChem Labs
use only

Canister Serial No.:	Date Cleaned	Initial Vacuum (inches of Hg vacuum)	VFR flow rate (ml/min)	Initials:	Field Vacuum before sampling (inches of Hg vacuum)	Final Vacuum after sampling (Inches of Hg vacuum)	Client Sample Identification	Other Client Information	
108016	02.23.09	>25.0		ME	30	0	#5		
108692					30	0	#3		
108678					30	0	#8		
108738					30	0	#12		
108812					30	0	#6		
VFR Serial No.:									
107045	02.23.09		~13.8	ME					
108790									
108919									
108999									
108987									

Original Field Sample Chain-of-Custody				Return to:
Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Reason for Transfer/Storage Location	DataChem Laboratories, Inc.
ME	02/24.09 11:55	ME		960 W. LeVoy Drive
		Novak, Sean 3/25/09		Salt Lake City, UT 84123
				800-356-9135

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



DATA
EM
LABORATORIES, INC.

ANALYTICAL REQUEST FORM

1. ☒ REGULAR Status

☐ RUSH Status Requested - ADDITIONAL CHARGE

RESULTS REQUIRED BY _____

DATE

CONTACT DATACHEM LABS PRIOR TO SENDING SAMPLES

2. Date 3/2/09 Purchase Order No. K09036
3. Company Name Workplace Safety & Health Co.
Address 6314 Rucker Rd, Suite F
Indianapolis, IN 46220
Person to Contact Dick Griffith
Telephone (317) 281-3917
Fax Telephone (317) 253-9754
E-mail Address griffith@workplace-safety.net
Billing Address (if different from above)
11715 Fox Rd, Suite 400-225
Indianapolis, IN 46236

4. Quote No. _____
DCL Project Manager Rainald Patten
5. Sample Collection
Sampling Site Michigan Apts/Plaza
Industrial Process Commercial/Apartment
Date of Collection 2-27-09
Time Collected ~1pm
Date of Shipment 3/2/09
Chain of Custody No. K09036

6. REQUEST FOR ANALYSES

Laboratory Use Only	Client Sample Number	Matrix*	Sample Volume	ANALYSES REQUESTED - Use method number if known	Units**
108980	1	Summa	6 liters	cis 1,2 dichloroethylene	5
107009	2			tetrachloroethylene	
108602	3			trichloroethylene	
107056	4			vinyl chloride	
108016	5				
108812	6				
108805	7				
108678	8				
107005	9				
107110	10				

* Specify: Solid sorbent tube, e.g. Charcoal; Filter type; Impinger solution; Bulk sample; Blood; Urine; Tissue; Soil; Water; Other

** 1. ug/sample 2. mg/m³ 3. ppm 4. % 5. ppb (other) Please indicate one or more units in the column entitled Units**

Comments

These 10 samples are all breathing zone air. Do SIM mode.

Possible Contamination and/or Chemical Hazards

7. Chain of Custody (Optional)

Relinquished by	<u>[Signature]</u>	Date/Time	<u>3/2/09</u> <u>5:00 pm</u>
Received by	<u>[Signature]</u>	Date/Time	<u>3/2/09</u> <u>9:00</u>
Relinquished by		Date/Time	
Received by		Date/Time	
Relinquished by		Date/Time	
Received by		Date/Time	

DataChem Laboratories, Inc.
CANISTER CHAIN-OF-CUSTODY AND FIELD DATA RECORD

Client: WORKPLACE SAFETY & HEALTH
Account No: 7003

Project/Job/Task: Michigan Apts / Plaza

Please do not apply adhesive labels directly on Canisters

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

Canister Serial No.:	Date Cleaned	Initial Vacuum (inches of Hg vacuum)	VFR flow rate (ml/min)	Initials:	Field Vacuum before sampling (inches of Hg vacuum)	Final Vacuum after sampling (Inches of Hg vacuum)	Client Sample Identification	Other Client Information	DataChem Labs use only
108980	02.23.09	>25.0		<i>[Signature]</i>	30	0	#1		
108816					30	0	#11		
107009					30	0	#2		
107109					30	0	#13		
107056					30	0	#4		
VFR Serial No.:									
108606	02.23.09		26.8	<i>[Signature]</i>					
107044									
108952									
108778									
108934									

Original Field Sample Chain-of-Custody			
Relinquished By: (Signature)	Date/Time	Received By: (Signature)	Reason for Transfer/Storage Location
<i>[Signature]</i>	02/24/09 11:55	<i>[Signature]</i>	
		<i>[Signature]</i> 3/26/09	

Return to:
DataChem Laboratories, Inc.
960 W. LeVoy Drive
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If canisters are kept for longer than the original project scheduled sampling, a \$40 per can - per week rental fee will be assessed. If a project is cancelled after DCL has shipped cans, in addition to the cost of the initial shipping, a \$40 weekly rental fee will be charged for each unused can until they are returned to DCL.



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February 17, 2009

Ms. Leena Lothe
Mundell & Associates, Inc.
110 South Downey Avenue
Indianapolis, IN 46219

Re: Lab Project Number: SML09-003
Client Project ID: M01046 / Michigan Plaza

Dear Ms. Lothe,

Enclosed are the analytical results for samples received by the laboratory on February 4, 2009 through February 6, 2009. The reports herein were obtained following the USEPA SW-846 Methods unless otherwise specified in the report.

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

Sincerely,

Stanley A. Hunnicutt
President
Sierra Mobile Labs, Inc.
stanhunnicutt@sierramobilelabs.com

Enclosures

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Lab Project Number: SML09-003

Client: Mundell & Associates, Inc.

Client Project ID: M01046 / Michigan Plaza

Number	Client Sample ID	Matrix	Date Collected	Date Received
09-0090	SB-1 11-12	soil	2/3/09 0:00	2/4/09 8:55
09-0091	SB-1 14-15	soil	2/3/09 0:00	2/4/09 8:55
09-0092	SB-3 11-12	soil	2/3/09 0:00	2/4/09 8:55
09-0093	SB-3 15-16	soil	2/3/09 0:00	2/4/09 8:55
09-0094	SB-4 10-11	soil	2/3/09 0:00	2/4/09 8:55
09-0095	SB-4 16-17	soil	2/3/09 0:00	2/4/09 8:55
09-0096	SB-1	water	2/3/09 0:00	2/4/09 8:55
09-0097	SB-3 (23')	water	2/3/09 0:00	2/4/09 8:55
09-0098	SB-4 (23')	water	2/3/09 0:00	2/4/09 8:55
09-0099	SB-2 (33-34')	water	2/4/09 0:00	2/4/09 13:00
09-0100	SB-2 (24')	water	2/4/09 0:00	2/4/09 13:00
09-0101	SB-1 6-7	soil	2/4/09 0:00	2/4/09 13:00
09-0102	SB-2 7-8	soil	2/4/09 0:00	2/4/09 13:00
09-0103	SB-2 11-12	soil	2/4/09 0:00	2/4/09 13:00
09-0104	SB-2 15-16	soil	2/4/09 0:00	2/4/09 13:00
09-0105	SB-3 2-3	soil	2/4/09 0:00	2/4/09 13:00
09-0106	SB-4 6-7	soil	2/4/09 0:00	2/4/09 13:00
09-0107	SB-7 (23')	water	2/4/09 0:00	2/4/09 17:00
09-0108	SB-7 3-4	soil	2/4/09 0:00	2/4/09 17:00
09-0109	SB-7 10-11	soil	2/4/09 0:00	2/4/09 17:00
09-0110	SB-7 15-16	soil	2/4/09 0:00	2/4/09 17:00
09-0132	SB-6 (23')	water	2/5/09 14:00	2/5/09 15:00
09-0140	SB-5 (23')	water	2/5/09 15:00	2/6/09 10:50

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Lab Project Number: SML09-003
Client: Mundell & Associates, Inc.
Client Project ID: M01046 / Michigan Plaza

Lab Sample Number: 09-0090 Matrix: soil Date Collected: 2/3/09
Client Sample ID: SB-1 11-12 Date Received: 2/4/09

Analyses	Result	Units	Reporting Limit	DF	Date & Time Analyzed	Analyst	Quals
GCMS VOCs by EPA 8260B/5035							
Acetone	ND	mg/kg	0.025	1	2/4/09 16:43	SAH	
Acrylonitrile	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
Benzene	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
Bromobenzene	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
Bromochloromethane	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
Bromodichloromethane	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
Bromoform	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
Bromomethane (Methyl Bromide)	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
n-Butylbenzene	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
sec-Butylbenzene	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
tert-Butylbenzene	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
Carbon disulfide	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
Carbon tetrachloride	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
Chlorobenzene	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
Chlorodibromomethane	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
Chloroethane	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
Chloroform	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
Chloromethane (Methyl Chloride)	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
2-Chlorotoluene	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
4-Chlorotoluene	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
2-Chloroethyl vinyl ether	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
1,2-Dibromoethane	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
Dibromomethane (Methylene Bromide)	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
1,2-Dichlorobenzene	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
1,3-Dichlorobenzene	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
1,4-Dichlorobenzene	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
Dichlorodifluoromethane	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
1,1-Dichloroethane	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
1,2-Dichloroethane	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
1,1-Dichloroethene	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
cis-1,2-Dichloroethene	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
trans-1,2-Dichloroethene	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
1,2-Dichloropropane	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
1,3-Dichloropropane	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
2,2-Dichloropropane	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
1,1-Dichloropropene	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
cis-1,3-Dichloropropene	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
trans-1,3-Dichloropropene	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
Ethylbenzene	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
Ethyl methacrylate	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	

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Lab Project Number: SML09-003
Client: Mundell & Associates, Inc.
Client Project ID: M01046 / Michigan Plaza

Lab Sample Number: 09-0090	Matrix: soil	Date Collected: 2/3/09
Client Sample ID: SB-1 11-12		Date Received: 2/4/09

Analyses	Result	Units	Reporting Limit	DF	Date & Time Analyzed	Analyst	Quals
GCMS VOCs by EPA 8260B/5035							
2-Hexanone	ND	mg/kg	0.013	1	2/4/09 16:43	SAH	
Hexachlorobutadiene	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
Iodomethane	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
Isopropylbenzene	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
p-Isopropyltoluene	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
Methyl Ethyl Ketone (2-Butanone)	ND	mg/kg	0.013	1	2/4/09 16:43	SAH	
Methyl(tert) butyl ether (MTBE)	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.013	1	2/4/09 16:43	SAH	
Naphthalene	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
n-Propylbenzene	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
Styrene	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
Tetrachloroethene	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
Toluene	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
1,2,3-Trichlorobenzene	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
1,2,4-Trichlorobenzene	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
1,1,1-Trichloroethane	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
1,1,2-Trichloroethane	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
Trichloroethene	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
Trichlorofluoromethane	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
1,2,3-Trichloropropane	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
1,2,4-Trimethylbenzene	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
1,3,5-Trimethylbenzene	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
Vinyl acetate	ND	mg/kg	0.005	1	2/4/09 16:43	SAH	
Vinyl chloride	ND	mg/kg	0.002	1	2/4/09 16:43	SAH	
Xylenes, Total	ND	mg/kg	0.015	1	2/4/09 16:43	SAH	
4-Bromofluorobenzene (surr)	93.6	%	70-130	1	2/4/09 16:43	SAH	
Dibromofluoromethane (surr)	132	%	70-130	1	2/4/09 16:43	SAH	1
Toluene-d8 (surr)	101.7	%	70-130	1	2/4/09 16:43	SAH	
Total Solids by EPA 1684							
Total Solids	95.4	%	0.1	1	2/5/09 7:35	SAH	

Soil results are reported on a dry weight basis.

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Lab Project Number: SML09-003
Client: Mundell & Associates, Inc.
Client Project ID: M01046 / Michigan Plaza

Lab Sample Number: 09-0091 Matrix: soil Date Collected: 2/3/09
Client Sample ID: SB-1 14-15 Date Received: 2/4/09

Analyses	Result	Units	Reporting Limit	DF	Date & Time Analyzed	Analyst	Quals
GCMS VOCs by EPA 8260B/5035							
Acetone	ND	mg/kg	0.025	1	2/4/09 17:14	SAH	
Acrylonitrile	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
Benzene	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
Bromobenzene	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
Bromochloromethane	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
Bromodichloromethane	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
Bromoform	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
Bromomethane (Methyl Bromide)	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
n-Butylbenzene	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
sec-Butylbenzene	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
tert-Butylbenzene	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
Carbon disulfide	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
Carbon tetrachloride	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
Chlorobenzene	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
Chlorodibromomethane	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
Chloroethane	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
Chloroform	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
Chloromethane (Methyl Chloride)	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
2-Chlorotoluene	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
4-Chlorotoluene	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
2-Chloroethyl vinyl ether	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
1,2-Dibromoethane	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
Dibromomethane (Methylene Bromide)	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
1,2-Dichlorobenzene	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
1,3-Dichlorobenzene	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
1,4-Dichlorobenzene	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
Dichlorodifluoromethane	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
1,1-Dichloroethane	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
1,2-Dichloroethane	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
1,1-Dichloroethene	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
cis-1,2-Dichloroethene	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
trans-1,2-Dichloroethene	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
1,2-Dichloropropane	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
1,3-Dichloropropane	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
2,2-Dichloropropane	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
1,1-Dichloropropene	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
cis-1,3-Dichloropropene	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
trans-1,3-Dichloropropene	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
Ethylbenzene	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
Ethyl methacrylate	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	

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Lab Project Number: SML09-003
Client: Mundell & Associates, Inc.
Client Project ID: M01046 / Michigan Plaza

Lab Sample Number: 09-0091	Matrix: soil	Date Collected: 2/3/09
Client Sample ID: SB-1 14-15		Date Received: 2/4/09

Analyses	Result	Units	Reporting Limit	DF	Date & Time Analyzed	Analyst	Quals
GCMS VOCs by EPA 8260B/5035							
2-Hexanone	ND	mg/kg	0.013	1	2/4/09 17:14	SAH	
Hexachlorobutadiene	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
Iodomethane	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
Isopropylbenzene	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
p-Isopropyltoluene	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
Methyl Ethyl Ketone (2-Butanone)	ND	mg/kg	0.013	1	2/4/09 17:14	SAH	
Methyl(tert) butyl ether (MTBE)	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.013	1	2/4/09 17:14	SAH	
Naphthalene	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
n-Propylbenzene	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
Styrene	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
Tetrachloroethene	0.012	mg/kg	0.005	1	2/4/09 17:14	SAH	
Toluene	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
1,2,3-Trichlorobenzene	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
1,2,4-Trichlorobenzene	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
1,1,1-Trichloroethane	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
1,1,2-Trichloroethane	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
Trichloroethene	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
Trichlorofluoromethane	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
1,2,3-Trichloropropane	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
1,2,4-Trimethylbenzene	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
1,3,5-Trimethylbenzene	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
Vinyl acetate	ND	mg/kg	0.005	1	2/4/09 17:14	SAH	
Vinyl chloride	ND	mg/kg	0.002	1	2/4/09 17:14	SAH	
Xylenes, Total	ND	mg/kg	0.015	1	2/4/09 17:14	SAH	
4-Bromofluorobenzene (surr)	80.0	%	70-130	1	2/4/09 17:14	SAH	
Dibromofluoromethane (surr)	137	%	70-130	1	2/4/09 17:14	SAH	1
Toluene-d8 (surr)	93.4	%	70-130	1	2/4/09 17:14	SAH	
Total Solids by EPA 1684							
Total Solids	95.7	%	0.1	1	2/5/09 7:35	SAH	

Soil results are reported on a dry weight basis.

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Lab Project Number: SML09-003
Client: Mundell & Associates, Inc.
Client Project ID: M01046 / Michigan Plaza

Lab Sample Number: 09-0092 Matrix: soil Date Collected: 2/3/09
Client Sample ID: SB-3 11-12 Date Received: 2/4/09

Analyses	Result	Units	Reporting Limit	DF	Date & Time Analyzed	Analyst	Quals
GCMS VOCs by EPA 8260B/5035							
Acetone	ND	mg/kg	0.025	1	2/4/09 18:45	SAH	
Acrylonitrile	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
Benzene	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
Bromobenzene	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
Bromochloromethane	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
Bromodichloromethane	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
Bromoform	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
Bromomethane (Methyl Bromide)	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
n-Butylbenzene	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
sec-Butylbenzene	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
tert-Butylbenzene	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
Carbon disulfide	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
Carbon tetrachloride	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
Chlorobenzene	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
Chlorodibromomethane	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
Chloroethane	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
Chloroform	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
Chloromethane (Methyl Chloride)	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
2-Chlorotoluene	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
4-Chlorotoluene	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
2-Chloroethyl vinyl ether	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
1,2-Dibromoethane	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
Dibromomethane (Methylene Bromide)	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
1,2-Dichlorobenzene	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
1,3-Dichlorobenzene	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
1,4-Dichlorobenzene	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
Dichlorodifluoromethane	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
1,1-Dichloroethane	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
1,2-Dichloroethane	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
1,1-Dichloroethene	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
cis-1,2-Dichloroethene	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
trans-1,2-Dichloroethene	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
1,2-Dichloropropane	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
1,3-Dichloropropane	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
2,2-Dichloropropane	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
1,1-Dichloropropene	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
cis-1,3-Dichloropropene	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
trans-1,3-Dichloropropene	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
Ethylbenzene	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
Ethyl methacrylate	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	

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Lab Project Number: SML09-003
Client: Mundell & Associates, Inc.
Client Project ID: M01046 / Michigan Plaza

Lab Sample Number: 09-0092	Matrix: soil	Date Collected: 2/3/09
Client Sample ID: SB-3 11-12		Date Received: 2/4/09

Analyses	Result	Units	Reporting Limit	DF	Date & Time Analyzed	Analyst	Quals
GCMS VOCs by EPA 8260B/5035							
2-Hexanone	ND	mg/kg	0.013	1	2/4/09 18:45	SAH	
Hexachlorobutadiene	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
Iodomethane	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
Isopropylbenzene	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
p-Isopropyltoluene	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
Methyl Ethyl Ketone (2-Butanone)	ND	mg/kg	0.013	1	2/4/09 18:45	SAH	
Methyl(tert) butyl ether (MTBE)	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.013	1	2/4/09 18:45	SAH	
Naphthalene	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
n-Propylbenzene	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
Styrene	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
Tetrachloroethene	6.09	mg/kg	1	200	2/11/09 21:20	SAH	
Toluene	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
1,2,3-Trichlorobenzene	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
1,2,4-Trichlorobenzene	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
1,1,1-Trichloroethane	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
1,1,2-Trichloroethane	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
Trichloroethene	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
Trichlorofluoromethane	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
1,2,3-Trichloropropane	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
1,2,4-Trimethylbenzene	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
1,3,5-Trimethylbenzene	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
Vinyl acetate	ND	mg/kg	0.005	1	2/4/09 18:45	SAH	
Vinyl chloride	ND	mg/kg	0.002	1	2/4/09 18:45	SAH	
Xylenes, Total	ND	mg/kg	0.015	1	2/4/09 18:45	SAH	
4-Bromofluorobenzene (surr)	82.3	%	70-130	1	2/4/09 18:45	SAH	
Dibromofluoromethane (surr)	136	%	70-130	1	2/4/09 18:45	SAH	1
Toluene-d8 (surr)	83.9	%	70-130	1	2/4/09 18:45	SAH	
Total Solids by EPA 1684							
Total Solids	96.8	%	0.1	1	2/5/09 7:35	SAH	

Soil results are reported on a dry weight basis.

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Lab Project Number: SML09-003
Client: Mundell & Associates, Inc.
Client Project ID: M01046 / Michigan Plaza

Lab Sample Number: 09-0093 Matrix: soil Date Collected: 2/3/09
Client Sample ID: SB-3 15-16 Date Received: 2/4/09

Analyses	Result	Units	Reporting Limit	DF	Date & Time Analyzed	Analyst	Quals
GCMS VOCs by EPA 8260B/5035							
Acetone	ND	mg/kg	0.025	1	2/4/09 19:15	SAH	
Acrylonitrile	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
Benzene	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
Bromobenzene	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
Bromochloromethane	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
Bromodichloromethane	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
Bromoform	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
Bromomethane (Methyl Bromide)	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
n-Butylbenzene	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
sec-Butylbenzene	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
tert-Butylbenzene	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
Carbon disulfide	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
Carbon tetrachloride	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
Chlorobenzene	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
Chlorodibromomethane	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
Chloroethane	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
Chloroform	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
Chloromethane (Methyl Chloride)	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
2-Chlorotoluene	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
4-Chlorotoluene	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
2-Chloroethyl vinyl ether	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
1,2-Dibromoethane	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
Dibromomethane (Methylene Bromide)	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
1,2-Dichlorobenzene	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
1,3-Dichlorobenzene	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
1,4-Dichlorobenzene	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
Dichlorodifluoromethane	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
1,1-Dichloroethane	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
1,2-Dichloroethane	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
1,1-Dichloroethene	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
cis-1,2-Dichloroethene	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
trans-1,2-Dichloroethene	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
1,2-Dichloropropane	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
1,3-Dichloropropane	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
2,2-Dichloropropane	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
1,1-Dichloropropene	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
cis-1,3-Dichloropropene	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
trans-1,3-Dichloropropene	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
Ethylbenzene	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
Ethyl methacrylate	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	

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Lab Project Number: SML09-003
Client: Mundell & Associates, Inc.
Client Project ID: M01046 / Michigan Plaza

Lab Sample Number: 09-0093 Matrix: soil Date Collected: 2/3/09
Client Sample ID: SB-3 15-16 Date Received: 2/4/09

Analyses	Result	Units	Reporting Limit	DF	Date & Time Analyzed	Analyst	Quals
GCMS VOCs by EPA 8260B/5035							
2-Hexanone	ND	mg/kg	0.013	1	2/4/09 19:15	SAH	
Hexachlorobutadiene	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
Iodomethane	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
Isopropylbenzene	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
p-Isopropyltoluene	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
Methyl Ethyl Ketone (2-Butanone)	ND	mg/kg	0.013	1	2/4/09 19:15	SAH	
Methyl(tert) butyl ether (MTBE)	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.013	1	2/4/09 19:15	SAH	
Naphthalene	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
n-Propylbenzene	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
Styrene	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
Tetrachloroethene	3.60	mg/kg	1	200	2/11/09 21:49	SAH	
Toluene	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
1,2,3-Trichlorobenzene	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
1,2,4-Trichlorobenzene	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
1,1,1-Trichloroethane	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
1,1,2-Trichloroethane	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
Trichloroethene	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
Trichlorofluoromethane	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
1,2,3-Trichloropropane	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
1,2,4-Trimethylbenzene	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
1,3,5-Trimethylbenzene	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
Vinyl acetate	ND	mg/kg	0.005	1	2/4/09 19:15	SAH	
Vinyl chloride	ND	mg/kg	0.002	1	2/4/09 19:15	SAH	
Xylenes, Total	ND	mg/kg	0.015	1	2/4/09 19:15	SAH	
4-Bromofluorobenzene (surr)	86.3	%	70-130	1	2/4/09 19:15	SAH	
Dibromofluoromethane (surr)	144	%	70-130	1	2/4/09 19:15	SAH	1
Toluene-d8 (surr)	86.9	%	70-130	1	2/4/09 19:15	SAH	
Total Solids by EPA 1684							
Total Solids	95.6	%	0.1	1	2/5/09 7:35	SAH	

Soil results are reported on a dry weight basis.

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Lab Project Number: SML09-003
Client: Mundell & Associates, Inc.
Client Project ID: M01046 / Michigan Plaza

Lab Sample Number: 09-0094 Matrix: soil Date Collected: 2/3/09
Client Sample ID: SB-4 10-11 Date Received: 2/4/09

Analyses	Result	Units	Reporting Limit	DF	Date & Time Analyzed	Analyst	Quals
GCMS VOCs by EPA 8260B/5035							
Acetone	ND	mg/kg	0.025	1	2/4/09 19:45	SAH	
Acrylonitrile	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
Benzene	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
Bromobenzene	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
Bromochloromethane	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
Bromodichloromethane	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
Bromoform	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
Bromomethane (Methyl Bromide)	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
n-Butylbenzene	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
sec-Butylbenzene	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
tert-Butylbenzene	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
Carbon disulfide	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
Carbon tetrachloride	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
Chlorobenzene	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
Chlorodibromomethane	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
Chloroethane	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
Chloroform	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
Chloromethane (Methyl Chloride)	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
2-Chlorotoluene	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
4-Chlorotoluene	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
2-Chloroethyl vinyl ether	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
1,2-Dibromoethane	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
Dibromomethane (Methylene Bromide)	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
1,2-Dichlorobenzene	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
1,3-Dichlorobenzene	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
1,4-Dichlorobenzene	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
Dichlorodifluoromethane	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
1,1-Dichloroethane	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
1,2-Dichloroethane	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
1,1-Dichloroethene	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
cis-1,2-Dichloroethene	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
trans-1,2-Dichloroethene	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
1,2-Dichloropropane	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
1,3-Dichloropropane	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
2,2-Dichloropropane	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
1,1-Dichloropropene	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
cis-1,3-Dichloropropene	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
trans-1,3-Dichloropropene	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
Ethylbenzene	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
Ethyl methacrylate	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	

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Lab Project Number: SML09-003
Client: Mundell & Associates, Inc.
Client Project ID: M01046 / Michigan Plaza

Lab Sample Number: 09-0094 Matrix: soil Date Collected: 2/3/09
Client Sample ID: SB-4 10-11 Date Received: 2/4/09

Analyses	Result	Units	Reporting Limit	DF	Date & Time Analyzed	Analyst	Quals
GCMS VOCs by EPA 8260B/5035							
2-Hexanone	ND	mg/kg	0.013	1	2/4/09 19:45	SAH	
Hexachlorobutadiene	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
Iodomethane	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
Isopropylbenzene	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
p-Isopropyltoluene	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
Methyl Ethyl Ketone (2-Butanone)	ND	mg/kg	0.013	1	2/4/09 19:45	SAH	
Methyl(tert) butyl ether (MTBE)	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.013	1	2/4/09 19:45	SAH	
Naphthalene	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
n-Propylbenzene	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
Styrene	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
Tetrachloroethene	0.118	mg/kg	0.005	1	2/4/09 19:45	SAH	E
Toluene	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
1,2,3-Trichlorobenzene	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
1,2,4-Trichlorobenzene	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
1,1,1-Trichloroethane	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
1,1,2-Trichloroethane	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
Trichloroethene	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
Trichlorofluoromethane	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
1,2,3-Trichloropropane	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
1,2,4-Trimethylbenzene	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
1,3,5-Trimethylbenzene	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
Vinyl acetate	ND	mg/kg	0.005	1	2/4/09 19:45	SAH	
Vinyl chloride	ND	mg/kg	0.002	1	2/4/09 19:45	SAH	
Xylenes, Total	ND	mg/kg	0.015	1	2/4/09 19:45	SAH	
4-Bromofluorobenzene (surr)	83.4	%	70-130	1	2/4/09 19:45	SAH	
Dibromofluoromethane (surr)	147	%	70-130	1	2/4/09 19:45	SAH	1
Toluene-d8 (surr)	85.3	%	70-130	1	2/4/09 19:45	SAH	
Total Solids by EPA 1684							
Total Solids	96.3	%	0.1	1	2/5/09 7:35	SAH	

Soil results are reported on a dry weight basis.

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Lab Project Number: SML09-003
Client: Mundell & Associates, Inc.
Client Project ID: M01046 / Michigan Plaza

Lab Sample Number: 09-0095	Matrix: soil	Date Collected: 2/3/09
Client Sample ID: SB-4 16-17		Date Received: 2/4/09

Analyses	Result	Units	Reporting Limit	DF	Date & Time Analyzed	Analyst	Quals
GCMS VOCs by EPA 8260B/5035							
Acetone	ND	mg/kg	0.025	1	2/4/09 21:45	SAH	
Acrylonitrile	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
Benzene	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
Bromobenzene	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
Bromochloromethane	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
Bromodichloromethane	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
Bromoform	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
Bromomethane (Methyl Bromide)	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
n-Butylbenzene	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
sec-Butylbenzene	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
tert-Butylbenzene	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
Carbon disulfide	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
Carbon tetrachloride	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
Chlorobenzene	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
Chlorodibromomethane	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
Chloroethane	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
Chloroform	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
Chloromethane (Methyl Chloride)	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
2-Chlorotoluene	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
4-Chlorotoluene	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
2-Chloroethyl vinyl ether	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
1,2-Dibromoethane	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
Dibromomethane (Methylene Bromide)	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
1,2-Dichlorobenzene	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
1,3-Dichlorobenzene	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
1,4-Dichlorobenzene	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
Dichlorodifluoromethane	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
1,1-Dichloroethane	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
1,2-Dichloroethane	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
1,1-Dichloroethene	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
cis-1,2-Dichloroethene	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
trans-1,2-Dichloroethene	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
1,2-Dichloropropane	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
1,3-Dichloropropane	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
2,2-Dichloropropane	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
1,1-Dichloropropene	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
cis-1,3-Dichloropropene	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
trans-1,3-Dichloropropene	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
Ethylbenzene	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
Ethyl methacrylate	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	

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Lab Project Number: SML09-003
Client: Mundell & Associates, Inc.
Client Project ID: M01046 / Michigan Plaza

Lab Sample Number: 09-0095	Matrix: soil	Date Collected: 2/3/09
Client Sample ID: SB-4 16-17		Date Received: 2/4/09

Analyses	Result	Units	Reporting Limit	DF	Date & Time Analyzed	Analyst	Quals
GCMS VOCs by EPA 8260B/5035							
2-Hexanone	ND	mg/kg	0.013	1	2/4/09 21:45	SAH	
Hexachlorobutadiene	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
Iodomethane	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
Isopropylbenzene	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
p-Isopropyltoluene	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
Methyl Ethyl Ketone (2-Butanone)	ND	mg/kg	0.013	1	2/4/09 21:45	SAH	
Methyl(tert) butyl ether (MTBE)	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.013	1	2/4/09 21:45	SAH	
Naphthalene	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
n-Propylbenzene	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
Styrene	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
Tetrachloroethene	8.43	mg/kg	1	200	2/11/09 22:19	SAH	
Toluene	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
1,2,3-Trichlorobenzene	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
1,2,4-Trichlorobenzene	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
1,1,1-Trichloroethane	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
1,1,2-Trichloroethane	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
Trichloroethene	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
Trichlorofluoromethane	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
1,2,3-Trichloropropane	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
1,2,4-Trimethylbenzene	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
1,3,5-Trimethylbenzene	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
Vinyl acetate	ND	mg/kg	0.005	1	2/4/09 21:45	SAH	
Vinyl chloride	ND	mg/kg	0.002	1	2/4/09 21:45	SAH	
Xylenes, Total	ND	mg/kg	0.015	1	2/4/09 21:45	SAH	
4-Bromofluorobenzene (surr)	80.3	%	70-130	1	2/4/09 21:45	SAH	
Dibromofluoromethane (surr)	132	%	70-130	1	2/4/09 21:45	SAH	1
Toluene-d8 (surr)	90.2	%	70-130	1	2/4/09 21:45	SAH	
Total Solids by EPA 1684							
Total Solids	95.4	%	0.1	1	2/5/09 7:35	SAH	

Soil results are reported on a dry weight basis.

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Lab Project Number: SML09-003
Client: Mundell & Associates, Inc.
Client Project ID: M01046 / Michigan Plaza

Lab Sample Number: 09-0096
Client Sample ID: SB-1

Matrix: water

Date Collected: 2/3/09
Date Received: 2/4/09

Analyses	Result	Units	Reporting Limit	DF	Date & Time Analyzed	Analyst	Quals
GCMS VOCs by EPA 8260B/5035							
Acetone	ND	µg/L	13	1	2/4/09 15:10	SAH	
Acrylonitrile	ND	µg/L	5	1	2/4/09 15:10	SAH	
Benzene	ND	µg/L	5	1	2/4/09 15:10	SAH	
Bromobenzene	ND	µg/L	5	1	2/4/09 15:10	SAH	
Bromochloromethane	ND	µg/L	5	1	2/4/09 15:10	SAH	
Bromodichloromethane	ND	µg/L	5	1	2/4/09 15:10	SAH	
Bromoform	ND	µg/L	5	1	2/4/09 15:10	SAH	
Bromomethane (Methyl Bromide)	ND	µg/L	5	1	2/4/09 15:10	SAH	
n-Butylbenzene	ND	µg/L	5	1	2/4/09 15:10	SAH	
sec-Butylbenzene	ND	µg/L	5	1	2/4/09 15:10	SAH	
tert-Butylbenzene	ND	µg/L	5	1	2/4/09 15:10	SAH	
Carbon disulfide	ND	µg/L	5	1	2/4/09 15:10	SAH	
Carbon tetrachloride	ND	µg/L	5	1	2/4/09 15:10	SAH	
Chlorobenzene	ND	µg/L	5	1	2/4/09 15:10	SAH	
Chlorodibromomethane	ND	µg/L	5	1	2/4/09 15:10	SAH	
Chloroethane	ND	µg/L	5	1	2/4/09 15:10	SAH	
Chloroform	ND	µg/L	5	1	2/4/09 15:10	SAH	
Chloromethane (Methyl Chloride)	ND	µg/L	5	1	2/4/09 15:10	SAH	
2-Chlorotoluene	ND	µg/L	5	1	2/4/09 15:10	SAH	
4-Chlorotoluene	ND	µg/L	5	1	2/4/09 15:10	SAH	
2-Chloroethyl vinyl ether	ND	µg/L	5	1	2/4/09 15:10	SAH	
1,2-Dibromo-3-chloropropane	ND	µg/L	5	1	2/4/09 15:10	SAH	
1,2-Dibromoethane	ND	µg/L	5	1	2/4/09 15:10	SAH	
Dibromomethane (Methylene Bromide)	ND	µg/L	5	1	2/4/09 15:10	SAH	
1,2-Dichlorobenzene	ND	µg/L	5	1	2/4/09 15:10	SAH	
1,3-Dichlorobenzene	ND	µg/L	5	1	2/4/09 15:10	SAH	
1,4-Dichlorobenzene	ND	µg/L	5	1	2/4/09 15:10	SAH	
Dichlorodifluoromethane	ND	µg/L	5	1	2/4/09 15:10	SAH	
trans-1,4-Dichloro-2-butene	ND	µg/L	5	1	2/4/09 15:10	SAH	
1,1-Dichloroethane	ND	µg/L	5	1	2/4/09 15:10	SAH	
1,2-Dichloroethane	ND	µg/L	5	1	2/4/09 15:10	SAH	
1,1-Dichloroethene	ND	µg/L	5	1	2/4/09 15:10	SAH	
cis-1,2-Dichloroethene	266	µg/L	50	10	2/9/09 11:15	SAH	
trans-1,2-Dichloroethene	28.2	µg/L	5	1	2/4/09 15:10	SAH	
1,2-Dichloropropane	ND	µg/L	5	1	2/4/09 15:10	SAH	
1,3-Dichloropropane	ND	µg/L	5	1	2/4/09 15:10	SAH	
2,2-Dichloropropane	ND	µg/L	5	1	2/4/09 15:10	SAH	
1,1-Dichloropropene	ND	µg/L	5	1	2/4/09 15:10	SAH	
cis-1,3-Dichloropropene	ND	µg/L	5	1	2/4/09 15:10	SAH	
trans-1,3-Dichloropropene	ND	µg/L	5	1	2/4/09 15:10	SAH	
Ethylbenzene	ND	µg/L	5	1	2/4/09 15:10	SAH	
Ethyl methacrylate	ND	µg/L	5	1	2/4/09 15:10	SAH	

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Lab Project Number: SML09-003
Client: Mundell & Associates, Inc.
Client Project ID: M01046 / Michigan Plaza

Lab Sample Number: 09-0096
Client Sample ID: SB-1

Matrix: water

Date Collected: 2/3/09
Date Received: 2/4/09

Analyses	Result	Units	Reporting	DF	Date & Time	Analyst	Quals
			Limit		Analyzed		
GCMS VOCs by EPA 8260B/5035							
2-Hexanone	ND	µg/L	13	1	2/4/09 15:10	SAH	
Hexachlorobutadiene	ND	µg/L	5	1	2/4/09 15:10	SAH	
Iodomethane	ND	µg/L	5	1	2/4/09 15:10	SAH	
Isopropylbenzene	ND	µg/L	5	1	2/4/09 15:10	SAH	
p-Isopropyltoluene	ND	µg/L	5	1	2/4/09 15:10	SAH	
Methyl Ethyl Ketone (2-Butanone)	ND	µg/L	13	1	2/4/09 15:10	SAH	
Methyl(tert) butyl ether (MTBE)	ND	µg/L	5	1	2/4/09 15:10	SAH	
4-Methyl-2-pentanone (MIBK)	ND	µg/L	13	1	2/4/09 15:10	SAH	
Naphthalene	ND	µg/L	5	1	2/4/09 15:10	SAH	
n-Propylbenzene	ND	µg/L	5	1	2/4/09 15:10	SAH	
Styrene	ND	µg/L	5	1	2/4/09 15:10	SAH	
1,1,1,2-Tetrachloroethane	ND	µg/L	5	1	2/4/09 15:10	SAH	
1,1,2,2-Tetrachloroethane	ND	µg/L	5	1	2/4/09 15:10	SAH	
Tetrachloroethene	ND	µg/L	5	1	2/4/09 15:10	SAH	
Toluene	ND	µg/L	5	1	2/4/09 15:10	SAH	
1,2,3-Trichlorobenzene	ND	µg/L	5	1	2/4/09 15:10	SAH	
1,2,4-Trichlorobenzene	ND	µg/L	5	1	2/4/09 15:10	SAH	
1,1,1-Trichloroethane	ND	µg/L	5	1	2/4/09 15:10	SAH	
1,1,2-Trichloroethane	ND	µg/L	5	1	2/4/09 15:10	SAH	
Trichloroethene	ND	µg/L	5	1	2/4/09 15:10	SAH	
Trichlorofluoromethane	ND	µg/L	5	1	2/4/09 15:10	SAH	
1,2,3-Trichloropropane	ND	µg/L	5	1	2/4/09 15:10	SAH	
1,2,4-Trimethylbenzene	ND	µg/L	5	1	2/4/09 15:10	SAH	
1,3,5-Trimethylbenzene	ND	µg/L	5	1	2/4/09 15:10	SAH	
Vinyl acetate	ND	µg/L	5	1	2/4/09 15:10	SAH	
Vinyl chloride	2.59	µg/L	2	1	2/4/09 15:10	SAH	
Xylenes, Total	ND	µg/L	15	1	2/4/09 15:10	SAH	
4-Bromofluorobenzene (surr)	97.4	%	70-130	1	2/4/09 15:10	SAH	
Dibromofluoromethane (surr)	112	%	70-130	1	2/4/09 15:10	SAH	
Toluene-d8 (surr)	105	%	70-130	1	2/4/09 15:10	SAH	

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Lab Project Number: SML09-003
Client: Mundell & Associates, Inc.
Client Project ID: M01046 / Michigan Plaza

Lab Sample Number: 09-0097 Matrix: water Date Collected: 2/3/09
Client Sample ID: SB-3 (23') Date Received: 2/4/09

Analyses	Result	Units	Reporting Limit	DF	Date & Time Analyzed	Analyst	Quals
GCMS VOCs by EPA 8260B/5035							
Acetone	ND	µg/L	13	1	2/4/09 15:41	SAH	
Acrylonitrile	ND	µg/L	5	1	2/4/09 15:41	SAH	
Benzene	ND	µg/L	5	1	2/4/09 15:41	SAH	
Bromobenzene	ND	µg/L	5	1	2/4/09 15:41	SAH	
Bromochloromethane	ND	µg/L	5	1	2/4/09 15:41	SAH	
Bromodichloromethane	ND	µg/L	5	1	2/4/09 15:41	SAH	
Bromoform	ND	µg/L	5	1	2/4/09 15:41	SAH	
Bromomethane (Methyl Bromide)	ND	µg/L	5	1	2/4/09 15:41	SAH	
n-Butylbenzene	ND	µg/L	5	1	2/4/09 15:41	SAH	
sec-Butylbenzene	ND	µg/L	5	1	2/4/09 15:41	SAH	
tert-Butylbenzene	ND	µg/L	5	1	2/4/09 15:41	SAH	
Carbon disulfide	ND	µg/L	5	1	2/4/09 15:41	SAH	
Carbon tetrachloride	ND	µg/L	5	1	2/4/09 15:41	SAH	
Chlorobenzene	ND	µg/L	5	1	2/4/09 15:41	SAH	
Chlorodibromomethane	ND	µg/L	5	1	2/4/09 15:41	SAH	
Chloroethane	ND	µg/L	5	1	2/4/09 15:41	SAH	
Chloroform	ND	µg/L	5	1	2/4/09 15:41	SAH	
Chloromethane (Methyl Chloride)	ND	µg/L	5	1	2/4/09 15:41	SAH	
2-Chlorotoluene	ND	µg/L	5	1	2/4/09 15:41	SAH	
4-Chlorotoluene	ND	µg/L	5	1	2/4/09 15:41	SAH	
2-Chloroethyl vinyl ether	ND	µg/L	5	1	2/4/09 15:41	SAH	
1,2-Dibromo-3-chloropropane	ND	µg/L	5	1	2/4/09 15:41	SAH	
1,2-Dibromoethane	ND	µg/L	5	1	2/4/09 15:41	SAH	
Dibromomethane (Methylene Bromide)	ND	µg/L	5	1	2/4/09 15:41	SAH	
1,2-Dichlorobenzene	ND	µg/L	5	1	2/4/09 15:41	SAH	
1,3-Dichlorobenzene	ND	µg/L	5	1	2/4/09 15:41	SAH	
1,4-Dichlorobenzene	ND	µg/L	5	1	2/4/09 15:41	SAH	
Dichlorodifluoromethane	ND	µg/L	5	1	2/4/09 15:41	SAH	
trans-1,4-Dichloro-2-butene	ND	µg/L	5	1	2/4/09 15:41	SAH	
1,1-Dichloroethane	ND	µg/L	5	1	2/4/09 15:41	SAH	
1,2-Dichloroethane	ND	µg/L	5	1	2/4/09 15:41	SAH	
1,1-Dichloroethene	ND	µg/L	5	1	2/4/09 15:41	SAH	
cis-1,2-Dichloroethene	104	µg/L	5	1	2/4/09 15:41	SAH	E
trans-1,2-Dichloroethene	14.1	µg/L	5	1	2/4/09 15:41	SAH	
1,2-Dichloropropane	ND	µg/L	5	1	2/4/09 15:41	SAH	
1,3-Dichloropropane	ND	µg/L	5	1	2/4/09 15:41	SAH	
2,2-Dichloropropane	ND	µg/L	5	1	2/4/09 15:41	SAH	
1,1-Dichloropropene	ND	µg/L	5	1	2/4/09 15:41	SAH	
cis-1,3-Dichloropropene	ND	µg/L	5	1	2/4/09 15:41	SAH	
trans-1,3-Dichloropropene	ND	µg/L	5	1	2/4/09 15:41	SAH	
Ethylbenzene	ND	µg/L	5	1	2/4/09 15:41	SAH	
Ethyl methacrylate	ND	µg/L	5	1	2/4/09 15:41	SAH	

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Lab Project Number: SML09-003
Client: Mundell & Associates, Inc.
Client Project ID: M01046 / Michigan Plaza

Lab Sample Number: 09-0097	Matrix: water	Date Collected: 2/3/09
Client Sample ID: SB-3 (23')		Date Received: 2/4/09

Analyses	Result	Units	Reporting	DF	Date & Time	Analyst	Quals
			Limit		Analyzed		
GCMS VOCs by EPA 8260B/5035							
2-Hexanone	ND	µg/L	13	1	2/4/09 15:41	SAH	
Hexachlorobutadiene	ND	µg/L	5	1	2/4/09 15:41	SAH	
Iodomethane	ND	µg/L	5	1	2/4/09 15:41	SAH	
Isopropylbenzene	ND	µg/L	5	1	2/4/09 15:41	SAH	
p-Isopropyltoluene	ND	µg/L	5	1	2/4/09 15:41	SAH	
Methyl Ethyl Ketone (2-Butanone)	ND	µg/L	13	1	2/4/09 15:41	SAH	
Methyl(tert) butyl ether (MTBE)	ND	µg/L	5	1	2/4/09 15:41	SAH	
4-Methyl-2-pentanone (MIBK)	ND	µg/L	13	1	2/4/09 15:41	SAH	
Naphthalene	ND	µg/L	5	1	2/4/09 15:41	SAH	
n-Propylbenzene	ND	µg/L	5	1	2/4/09 15:41	SAH	
Styrene	ND	µg/L	5	1	2/4/09 15:41	SAH	
1,1,1,2-Tetrachloroethane	ND	µg/L	5	1	2/4/09 15:41	SAH	
1,1,2,2-Tetrachloroethane	ND	µg/L	5	1	2/4/09 15:41	SAH	
Tetrachloroethene	ND	µg/L	5	1	2/4/09 15:41	SAH	
Toluene	ND	µg/L	5	1	2/4/09 15:41	SAH	
1,2,3-Trichlorobenzene	ND	µg/L	5	1	2/4/09 15:41	SAH	
1,2,4-Trichlorobenzene	ND	µg/L	5	1	2/4/09 15:41	SAH	
1,1,1-Trichloroethane	ND	µg/L	5	1	2/4/09 15:41	SAH	
1,1,2-Trichloroethane	ND	µg/L	5	1	2/4/09 15:41	SAH	
Trichloroethene	ND	µg/L	5	1	2/4/09 15:41	SAH	
Trichlorofluoromethane	ND	µg/L	5	1	2/4/09 15:41	SAH	
1,2,3-Trichloropropane	ND	µg/L	5	1	2/4/09 15:41	SAH	
1,2,4-Trimethylbenzene	ND	µg/L	5	1	2/4/09 15:41	SAH	
1,3,5-Trimethylbenzene	ND	µg/L	5	1	2/4/09 15:41	SAH	
Vinyl acetate	ND	µg/L	5	1	2/4/09 15:41	SAH	
Vinyl chloride	37.6	µg/L	2	1	2/4/09 15:41	SAH	
Xylenes, Total	ND	µg/L	15	1	2/4/09 15:41	SAH	
4-Bromofluorobenzene (surr)	103	%	70-130	1	2/4/09 15:41	SAH	
Dibromofluoromethane (surr)	118	%	70-130	1	2/4/09 15:41	SAH	
Toluene-d8 (surr)	110	%	70-130	1	2/4/09 15:41	SAH	

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Lab Project Number: SML09-003
Client: Mundell & Associates, Inc.
Client Project ID: M01046 / Michigan Plaza

Lab Sample Number: 09-0098 Matrix: water Date Collected: 2/3/09
Client Sample ID: SB-4 (23') Date Received: 2/4/09

Analyses	Result	Units	Reporting Limit	DF	Date & Time Analyzed	Analyst	Quals
GCMS VOCs by EPA 8260B/5035							
Acetone	ND	µg/L	13	1	2/4/09 16:12	SAH	
Acrylonitrile	ND	µg/L	5	1	2/4/09 16:12	SAH	
Benzene	ND	µg/L	5	1	2/4/09 16:12	SAH	
Bromobenzene	ND	µg/L	5	1	2/4/09 16:12	SAH	
Bromochloromethane	ND	µg/L	5	1	2/4/09 16:12	SAH	
Bromodichloromethane	ND	µg/L	5	1	2/4/09 16:12	SAH	
Bromoform	ND	µg/L	5	1	2/4/09 16:12	SAH	
Bromomethane (Methyl Bromide)	ND	µg/L	5	1	2/4/09 16:12	SAH	
n-Butylbenzene	ND	µg/L	5	1	2/4/09 16:12	SAH	
sec-Butylbenzene	ND	µg/L	5	1	2/4/09 16:12	SAH	
tert-Butylbenzene	ND	µg/L	5	1	2/4/09 16:12	SAH	
Carbon disulfide	ND	µg/L	5	1	2/4/09 16:12	SAH	
Carbon tetrachloride	ND	µg/L	5	1	2/4/09 16:12	SAH	
Chlorobenzene	ND	µg/L	5	1	2/4/09 16:12	SAH	
Chlorodibromomethane	ND	µg/L	5	1	2/4/09 16:12	SAH	
Chloroethane	ND	µg/L	5	1	2/4/09 16:12	SAH	
Chloroform	ND	µg/L	5	1	2/4/09 16:12	SAH	
Chloromethane (Methyl Chloride)	ND	µg/L	5	1	2/4/09 16:12	SAH	
2-Chlorotoluene	ND	µg/L	5	1	2/4/09 16:12	SAH	
4-Chlorotoluene	ND	µg/L	5	1	2/4/09 16:12	SAH	
2-Chloroethyl vinyl ether	ND	µg/L	5	1	2/4/09 16:12	SAH	
1,2-Dibromo-3-chloropropane	ND	µg/L	5	1	2/4/09 16:12	SAH	
1,2-Dibromoethane	ND	µg/L	5	1	2/4/09 16:12	SAH	
Dibromomethane (Methylene Bromide)	ND	µg/L	5	1	2/4/09 16:12	SAH	
1,2-Dichlorobenzene	ND	µg/L	5	1	2/4/09 16:12	SAH	
1,3-Dichlorobenzene	ND	µg/L	5	1	2/4/09 16:12	SAH	
1,4-Dichlorobenzene	ND	µg/L	5	1	2/4/09 16:12	SAH	
Dichlorodifluoromethane	ND	µg/L	5	1	2/4/09 16:12	SAH	
trans-1,4-Dichloro-2-butene	ND	µg/L	5	1	2/4/09 16:12	SAH	
1,1-Dichloroethane	ND	µg/L	5	1	2/4/09 16:12	SAH	
1,2-Dichloroethane	ND	µg/L	5	1	2/4/09 16:12	SAH	
1,1-Dichloroethene	ND	µg/L	5	1	2/4/09 16:12	SAH	
cis-1,2-Dichloroethene	95.8	µg/L	5	1	2/4/09 16:12	SAH	
trans-1,2-Dichloroethene	15.3	µg/L	5	1	2/4/09 16:12	SAH	
1,2-Dichloropropane	ND	µg/L	5	1	2/4/09 16:12	SAH	
1,3-Dichloropropane	ND	µg/L	5	1	2/4/09 16:12	SAH	
2,2-Dichloropropane	ND	µg/L	5	1	2/4/09 16:12	SAH	
1,1-Dichloropropene	ND	µg/L	5	1	2/4/09 16:12	SAH	
cis-1,3-Dichloropropene	ND	µg/L	5	1	2/4/09 16:12	SAH	
trans-1,3-Dichloropropene	ND	µg/L	5	1	2/4/09 16:12	SAH	
Ethylbenzene	ND	µg/L	5	1	2/4/09 16:12	SAH	
Ethyl methacrylate	ND	µg/L	5	1	2/4/09 16:12	SAH	

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Lab Project Number: SML09-003
Client: Mundell & Associates, Inc.
Client Project ID: M01046 / Michigan Plaza

Lab Sample Number: 09-0098	Matrix: water	Date Collected: 2/3/09
Client Sample ID: SB-4 (23')		Date Received: 2/4/09

Analyses	Result	Units	Reporting	DF	Date & Time	Analyst	Quals
			Limit		Analyzed		
GCMS VOCs by EPA 8260B/5035							
2-Hexanone	ND	µg/L	13	1	2/4/09 16:12	SAH	
Hexachlorobutadiene	ND	µg/L	5	1	2/4/09 16:12	SAH	
Iodomethane	ND	µg/L	5	1	2/4/09 16:12	SAH	
Isopropylbenzene	ND	µg/L	5	1	2/4/09 16:12	SAH	
p-Isopropyltoluene	ND	µg/L	5	1	2/4/09 16:12	SAH	
Methyl Ethyl Ketone (2-Butanone)	ND	µg/L	13	1	2/4/09 16:12	SAH	
Methyl(tert) butyl ether (MTBE)	ND	µg/L	5	1	2/4/09 16:12	SAH	
4-Methyl-2-pentanone (MIBK)	ND	µg/L	13	1	2/4/09 16:12	SAH	
Naphthalene	ND	µg/L	5	1	2/4/09 16:12	SAH	
n-Propylbenzene	ND	µg/L	5	1	2/4/09 16:12	SAH	
Styrene	ND	µg/L	5	1	2/4/09 16:12	SAH	
1,1,1,2-Tetrachloroethane	ND	µg/L	5	1	2/4/09 16:12	SAH	
1,1,2,2-Tetrachloroethane	ND	µg/L	5	1	2/4/09 16:12	SAH	
Tetrachloroethene	ND	µg/L	5	1	2/4/09 16:12	SAH	
Toluene	ND	µg/L	5	1	2/4/09 16:12	SAH	
1,2,3-Trichlorobenzene	ND	µg/L	5	1	2/4/09 16:12	SAH	
1,2,4-Trichlorobenzene	ND	µg/L	5	1	2/4/09 16:12	SAH	
1,1,1-Trichloroethane	ND	µg/L	5	1	2/4/09 16:12	SAH	
1,1,2-Trichloroethane	ND	µg/L	5	1	2/4/09 16:12	SAH	
Trichloroethene	ND	µg/L	5	1	2/4/09 16:12	SAH	
Trichlorofluoromethane	ND	µg/L	5	1	2/4/09 16:12	SAH	
1,2,3-Trichloropropane	ND	µg/L	5	1	2/4/09 16:12	SAH	
1,2,4-Trimethylbenzene	ND	µg/L	5	1	2/4/09 16:12	SAH	
1,3,5-Trimethylbenzene	ND	µg/L	5	1	2/4/09 16:12	SAH	
Vinyl acetate	ND	µg/L	5	1	2/4/09 16:12	SAH	
Vinyl chloride	37.5	µg/L	2	1	2/4/09 16:12	SAH	
Xylenes, Total	ND	µg/L	15	1	2/4/09 16:12	SAH	
4-Bromofluorobenzene (surr)	102	%	70-130	1	2/4/09 16:12	SAH	
Dibromofluoromethane (surr)	116	%	70-130	1	2/4/09 16:12	SAH	
Toluene-d8 (surr)	105	%	70-130	1	2/4/09 16:12	SAH	

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Lab Project Number: SML09-003
Client: Mundell & Associates, Inc.
Client Project ID: M01046 / Michigan Plaza

Lab Sample Number: 09-0099	Matrix: water	Date Collected: 2/4/09
Client Sample ID: SB-2 (33-34')		Date Received: 2/4/09

Analyses	Result	Units	Reporting Limit	DF	Date & Time Analyzed	Analyst	Quals
GCMS VOCs by EPA 8260B/5035							
Acetone	ND	µg/L	125	10	2/4/09 13:58	SAH	
Acrylonitrile	ND	µg/L	50	10	2/4/09 13:58	SAH	
Benzene	ND	µg/L	50	10	2/4/09 13:58	SAH	
Bromobenzene	ND	µg/L	50	10	2/4/09 13:58	SAH	
Bromochloromethane	ND	µg/L	50	10	2/4/09 13:58	SAH	
Bromodichloromethane	ND	µg/L	50	10	2/4/09 13:58	SAH	
Bromoform	ND	µg/L	50	10	2/4/09 13:58	SAH	
Bromomethane (Methyl Bromide)	ND	µg/L	50	10	2/4/09 13:58	SAH	
n-Butylbenzene	ND	µg/L	50	10	2/4/09 13:58	SAH	
sec-Butylbenzene	ND	µg/L	50	10	2/4/09 13:58	SAH	
tert-Butylbenzene	ND	µg/L	50	10	2/4/09 13:58	SAH	
Carbon disulfide	ND	µg/L	50	10	2/4/09 13:58	SAH	
Carbon tetrachloride	ND	µg/L	50	10	2/4/09 13:58	SAH	
Chlorobenzene	ND	µg/L	50	10	2/4/09 13:58	SAH	
Chlorodibromomethane	ND	µg/L	50	10	2/4/09 13:58	SAH	
Chloroethane	ND	µg/L	50	10	2/4/09 13:58	SAH	
Chloroform	ND	µg/L	50	10	2/4/09 13:58	SAH	
Chloromethane (Methyl Chloride)	ND	µg/L	50	10	2/4/09 13:58	SAH	
2-Chlorotoluene	ND	µg/L	50	10	2/4/09 13:58	SAH	
4-Chlorotoluene	ND	µg/L	50	10	2/4/09 13:58	SAH	
2-Chloroethyl vinyl ether	ND	µg/L	50	10	2/4/09 13:58	SAH	
1,2-Dibromo-3-chloropropane	ND	µg/L	50	10	2/4/09 13:58	SAH	
1,2-Dibromoethane	ND	µg/L	50	10	2/4/09 13:58	SAH	
Dibromomethane (Methylene Bromide)	ND	µg/L	50	10	2/4/09 13:58	SAH	
1,2-Dichlorobenzene	ND	µg/L	50	10	2/4/09 13:58	SAH	
1,3-Dichlorobenzene	ND	µg/L	50	10	2/4/09 13:58	SAH	
1,4-Dichlorobenzene	ND	µg/L	50	10	2/4/09 13:58	SAH	
Dichlorodifluoromethane	ND	µg/L	50	10	2/4/09 13:58	SAH	
trans-1,4-Dichloro-2-butene	ND	µg/L	50	10	2/4/09 13:58	SAH	
1,1-Dichloroethane	ND	µg/L	50	10	2/4/09 13:58	SAH	
1,2-Dichloroethane	ND	µg/L	50	10	2/4/09 13:58	SAH	
1,1-Dichloroethene	ND	µg/L	50	10	2/4/09 13:58	SAH	
cis-1,2-Dichloroethene	ND	µg/L	50	10	2/4/09 13:58	SAH	
trans-1,2-Dichloroethene	ND	µg/L	50	10	2/4/09 13:58	SAH	
1,2-Dichloropropane	ND	µg/L	50	10	2/4/09 13:58	SAH	
1,3-Dichloropropane	ND	µg/L	50	10	2/4/09 13:58	SAH	
2,2-Dichloropropane	ND	µg/L	50	10	2/4/09 13:58	SAH	
1,1-Dichloropropene	ND	µg/L	50	10	2/4/09 13:58	SAH	
cis-1,3-Dichloropropene	ND	µg/L	50	10	2/4/09 13:58	SAH	
trans-1,3-Dichloropropene	ND	µg/L	50	10	2/4/09 13:58	SAH	
Ethylbenzene	ND	µg/L	50	10	2/4/09 13:58	SAH	
Ethyl methacrylate	ND	µg/L	50	10	2/4/09 13:58	SAH	

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Lab Project Number: SML09-003
Client: Mundell & Associates, Inc.
Client Project ID: M01046 / Michigan Plaza

Lab Sample Number: 09-0099	Matrix: water	Date Collected: 2/4/09
Client Sample ID: SB-2 (33-34')		Date Received: 2/4/09

Analyses	Result	Units	Reporting Limit	DF	Date & Time Analyzed	Analyst	Quals
GCMS VOCs by EPA 8260B/5035							
2-Hexanone	ND	µg/L	125	10	2/4/09 13:58	SAH	
Hexachlorobutadiene	ND	µg/L	50	10	2/4/09 13:58	SAH	
Iodomethane	ND	µg/L	50	10	2/4/09 13:58	SAH	
Isopropylbenzene	ND	µg/L	50	10	2/4/09 13:58	SAH	
p-Isopropyltoluene	ND	µg/L	50	10	2/4/09 13:58	SAH	
Methyl Ethyl Ketone (2-Butanone)	ND	µg/L	125	10	2/4/09 13:58	SAH	
Methyl(tert) butyl ether (MTBE)	ND	µg/L	50	10	2/4/09 13:58	SAH	
4-Methyl-2-pentanone (MIBK)	ND	µg/L	125	10	2/4/09 13:58	SAH	
Naphthalene	ND	µg/L	50	10	2/4/09 13:58	SAH	
n-Propylbenzene	ND	µg/L	50	10	2/4/09 13:58	SAH	
Styrene	ND	µg/L	50	10	2/4/09 13:58	SAH	
1,1,1,2-Tetrachloroethane	ND	µg/L	50	10	2/4/09 13:58	SAH	
1,1,2,2-Tetrachloroethane	ND	µg/L	50	10	2/4/09 13:58	SAH	
Tetrachloroethene	ND	µg/L	50	10	2/4/09 13:58	SAH	
Toluene	ND	µg/L	50	10	2/4/09 13:58	SAH	
1,2,3-Trichlorobenzene	ND	µg/L	50	10	2/4/09 13:58	SAH	
1,2,4-Trichlorobenzene	ND	µg/L	50	10	2/4/09 13:58	SAH	
1,1,1-Trichloroethane	ND	µg/L	50	10	2/4/09 13:58	SAH	
1,1,2-Trichloroethane	ND	µg/L	50	10	2/4/09 13:58	SAH	
Trichloroethene	ND	µg/L	50	10	2/4/09 13:58	SAH	
Trichlorofluoromethane	ND	µg/L	50	10	2/4/09 13:58	SAH	
1,2,3-Trichloropropane	ND	µg/L	50	10	2/4/09 13:58	SAH	
1,2,4-Trimethylbenzene	ND	µg/L	50	10	2/4/09 13:58	SAH	
1,3,5-Trimethylbenzene	ND	µg/L	50	10	2/4/09 13:58	SAH	
Vinyl acetate	ND	µg/L	50	10	2/4/09 13:58	SAH	
Vinyl chloride	58.9	µg/L	20	10	2/4/09 13:58	SAH	
Xylenes, Total	ND	µg/L	150	10	2/4/09 13:58	SAH	
4-Bromofluorobenzene (surr)	93.0	%	70-130	10	2/4/09 13:58	SAH	
Dibromofluoromethane (surr)	108	%	70-130	10	2/4/09 13:58	SAH	
Toluene-d8 (surr)	98.2	%	70-130	10	2/4/09 13:58	SAH	

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Lab Project Number: SML09-003
Client: Mundell & Associates, Inc.
Client Project ID: M01046 / Michigan Plaza

Lab Sample Number: 09-0100 Matrix: water Date Collected: 2/4/09
Client Sample ID: SB-2 (24') Date Received: 2/4/09

Analyses	Result	Units	Reporting Limit	DF	Date & Time Analyzed	Analyst	Quals
GCMS VOCs by EPA 8260B/5035							
Acetone	ND	µg/L	13	1	2/4/09 14:38	SAH	
Acrylonitrile	ND	µg/L	5	1	2/4/09 14:38	SAH	
Benzene	ND	µg/L	5	1	2/4/09 14:38	SAH	
Bromobenzene	ND	µg/L	5	1	2/4/09 14:38	SAH	
Bromochloromethane	ND	µg/L	5	1	2/4/09 14:38	SAH	
Bromodichloromethane	ND	µg/L	5	1	2/4/09 14:38	SAH	
Bromoform	ND	µg/L	5	1	2/4/09 14:38	SAH	
Bromomethane (Methyl Bromide)	ND	µg/L	5	1	2/4/09 14:38	SAH	
n-Butylbenzene	ND	µg/L	5	1	2/4/09 14:38	SAH	
sec-Butylbenzene	ND	µg/L	5	1	2/4/09 14:38	SAH	
tert-Butylbenzene	ND	µg/L	5	1	2/4/09 14:38	SAH	
Carbon disulfide	ND	µg/L	5	1	2/4/09 14:38	SAH	
Carbon tetrachloride	ND	µg/L	5	1	2/4/09 14:38	SAH	
Chlorobenzene	ND	µg/L	5	1	2/4/09 14:38	SAH	
Chlorodibromomethane	ND	µg/L	5	1	2/4/09 14:38	SAH	
Chloroethane	ND	µg/L	5	1	2/4/09 14:38	SAH	
Chloroform	ND	µg/L	5	1	2/4/09 14:38	SAH	
Chloromethane (Methyl Chloride)	ND	µg/L	5	1	2/4/09 14:38	SAH	
2-Chlorotoluene	ND	µg/L	5	1	2/4/09 14:38	SAH	
4-Chlorotoluene	ND	µg/L	5	1	2/4/09 14:38	SAH	
2-Chloroethyl vinyl ether	ND	µg/L	5	1	2/4/09 14:38	SAH	
1,2-Dibromo-3-chloropropane	ND	µg/L	5	1	2/4/09 14:38	SAH	
1,2-Dibromoethane	ND	µg/L	5	1	2/4/09 14:38	SAH	
Dibromomethane (Methylene Bromide)	ND	µg/L	5	1	2/4/09 14:38	SAH	
1,2-Dichlorobenzene	ND	µg/L	5	1	2/4/09 14:38	SAH	
1,3-Dichlorobenzene	ND	µg/L	5	1	2/4/09 14:38	SAH	
1,4-Dichlorobenzene	ND	µg/L	5	1	2/4/09 14:38	SAH	
Dichlorodifluoromethane	ND	µg/L	5	1	2/4/09 14:38	SAH	
trans-1,4-Dichloro-2-butene	ND	µg/L	5	1	2/4/09 14:38	SAH	
1,1-Dichloroethane	ND	µg/L	5	1	2/4/09 14:38	SAH	
1,2-Dichloroethane	ND	µg/L	5	1	2/4/09 14:38	SAH	
1,1-Dichloroethene	ND	µg/L	5	1	2/4/09 14:38	SAH	
cis-1,2-Dichloroethene	68.8	µg/L	5	1	2/4/09 14:38	SAH	
trans-1,2-Dichloroethene	8.77	µg/L	5	1	2/4/09 14:38	SAH	
1,2-Dichloropropane	ND	µg/L	5	1	2/4/09 14:38	SAH	
1,3-Dichloropropane	ND	µg/L	5	1	2/4/09 14:38	SAH	
2,2-Dichloropropane	ND	µg/L	5	1	2/4/09 14:38	SAH	
1,1-Dichloropropene	ND	µg/L	5	1	2/4/09 14:38	SAH	
cis-1,3-Dichloropropene	ND	µg/L	5	1	2/4/09 14:38	SAH	
trans-1,3-Dichloropropene	ND	µg/L	5	1	2/4/09 14:38	SAH	
Ethylbenzene	ND	µg/L	5	1	2/4/09 14:38	SAH	
Ethyl methacrylate	ND	µg/L	5	1	2/4/09 14:38	SAH	

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Lab Project Number: SML09-003
Client: Mundell & Associates, Inc.
Client Project ID: M01046 / Michigan Plaza

Lab Sample Number: 09-0100	Matrix: water	Date Collected: 2/4/09
Client Sample ID: SB-2 (24')		Date Received: 2/4/09

Analyses	Result	Units	Reporting	DF	Date & Time	Analyst	Quals
			Limit		Analyzed		
GCMS VOCs by EPA 8260B/5035							
2-Hexanone	ND	µg/L	13	1	2/4/09 14:38	SAH	
Hexachlorobutadiene	ND	µg/L	5	1	2/4/09 14:38	SAH	
Iodomethane	ND	µg/L	5	1	2/4/09 14:38	SAH	
Isopropylbenzene	ND	µg/L	5	1	2/4/09 14:38	SAH	
p-Isopropyltoluene	ND	µg/L	5	1	2/4/09 14:38	SAH	
Methyl Ethyl Ketone (2-Butanone)	ND	µg/L	13	1	2/4/09 14:38	SAH	
Methyl(tert) butyl ether (MTBE)	ND	µg/L	5	1	2/4/09 14:38	SAH	
4-Methyl-2-pentanone (MIBK)	ND	µg/L	13	1	2/4/09 14:38	SAH	
Naphthalene	ND	µg/L	5	1	2/4/09 14:38	SAH	
n-Propylbenzene	ND	µg/L	5	1	2/4/09 14:38	SAH	
Styrene	ND	µg/L	5	1	2/4/09 14:38	SAH	
1,1,1,2-Tetrachloroethane	ND	µg/L	5	1	2/4/09 14:38	SAH	
1,1,2,2-Tetrachloroethane	ND	µg/L	5	1	2/4/09 14:38	SAH	
Tetrachloroethene	ND	µg/L	5	1	2/4/09 14:38	SAH	
Toluene	ND	µg/L	5	1	2/4/09 14:38	SAH	
1,2,3-Trichlorobenzene	ND	µg/L	5	1	2/4/09 14:38	SAH	
1,2,4-Trichlorobenzene	ND	µg/L	5	1	2/4/09 14:38	SAH	
1,1,1-Trichloroethane	ND	µg/L	5	1	2/4/09 14:38	SAH	
1,1,2-Trichloroethane	ND	µg/L	5	1	2/4/09 14:38	SAH	
Trichloroethene	ND	µg/L	5	1	2/4/09 14:38	SAH	
Trichlorofluoromethane	ND	µg/L	5	1	2/4/09 14:38	SAH	
1,2,3-Trichloropropane	ND	µg/L	5	1	2/4/09 14:38	SAH	
1,2,4-Trimethylbenzene	ND	µg/L	5	1	2/4/09 14:38	SAH	
1,3,5-Trimethylbenzene	ND	µg/L	5	1	2/4/09 14:38	SAH	
Vinyl acetate	ND	µg/L	5	1	2/4/09 14:38	SAH	
Vinyl chloride	10.3	µg/L	2	1	2/4/09 14:38	SAH	
Xylenes, Total	ND	µg/L	15	1	2/4/09 14:38	SAH	
4-Bromofluorobenzene (surr)	97.2	%	70-130	1	2/4/09 14:38	SAH	
Dibromofluoromethane (surr)	117	%	70-130	1	2/4/09 14:38	SAH	
Toluene-d8 (surr)	105	%	70-130	1	2/4/09 14:38	SAH	

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Lab Project Number: SML09-003
Client: Mundell & Associates, Inc.
Client Project ID: M01046 / Michigan Plaza

Lab Sample Number: 09-0101 Matrix: soil Date Collected: 2/3/09
Client Sample ID: SB-1 6-7 Date Received: 2/4/09

Analyses	Result	Units	Reporting Limit	DF	Date & Time Analyzed	Analyst	Quals
GCMS VOCs by EPA 8260B/5035							
Acetone	ND	mg/kg	0.025	1	2/4/09 22:14	SAH	
Acrylonitrile	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
Benzene	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
Bromobenzene	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
Bromochloromethane	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
Bromodichloromethane	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
Bromoform	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
Bromomethane (Methyl Bromide)	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
n-Butylbenzene	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
sec-Butylbenzene	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
tert-Butylbenzene	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
Carbon disulfide	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
Carbon tetrachloride	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
Chlorobenzene	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
Chlorodibromomethane	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
Chloroethane	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
Chloroform	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
Chloromethane (Methyl Chloride)	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
2-Chlorotoluene	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
4-Chlorotoluene	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
2-Chloroethyl vinyl ether	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
1,2-Dibromoethane	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
Dibromomethane (Methylene Bromide)	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
1,2-Dichlorobenzene	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
1,3-Dichlorobenzene	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
1,4-Dichlorobenzene	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
Dichlorodifluoromethane	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
1,1-Dichloroethane	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
1,2-Dichloroethane	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
1,1-Dichloroethene	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
cis-1,2-Dichloroethene	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
trans-1,2-Dichloroethene	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
1,2-Dichloropropane	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
1,3-Dichloropropane	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
2,2-Dichloropropane	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
1,1-Dichloropropene	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
cis-1,3-Dichloropropene	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
trans-1,3-Dichloropropene	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
Ethylbenzene	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
Ethyl methacrylate	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	

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Lab Project Number: SML09-003
Client: Mundell & Associates, Inc.
Client Project ID: M01046 / Michigan Plaza

Lab Sample Number: 09-0101 Matrix: soil Date Collected: 2/3/09
Client Sample ID: SB-1 6-7 Date Received: 2/4/09

Analyses	Result	Units	Reporting Limit	DF	Date & Time Analyzed	Analyst	Quals
GCMS VOCs by EPA 8260B/5035							
2-Hexanone	ND	mg/kg	0.013	1	2/4/09 22:14	SAH	
Hexachlorobutadiene	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
Iodomethane	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
Isopropylbenzene	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
p-Isopropyltoluene	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
Methyl Ethyl Ketone (2-Butanone)	ND	mg/kg	0.013	1	2/4/09 22:14	SAH	
Methyl(tert) butyl ether (MTBE)	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.013	1	2/4/09 22:14	SAH	
Naphthalene	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
n-Propylbenzene	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
Styrene	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
Tetrachloroethene	0.010	mg/kg	0.005	1	2/4/09 22:14	SAH	
Toluene	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
1,2,3-Trichlorobenzene	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
1,2,4-Trichlorobenzene	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
1,1,1-Trichloroethane	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
1,1,2-Trichloroethane	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
Trichloroethene	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
Trichlorofluoromethane	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
1,2,3-Trichloropropane	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
1,2,4-Trimethylbenzene	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
1,3,5-Trimethylbenzene	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
Vinyl acetate	ND	mg/kg	0.005	1	2/4/09 22:14	SAH	
Vinyl chloride	ND	mg/kg	0.002	1	2/4/09 22:14	SAH	
Xylenes, Total	ND	mg/kg	0.015	1	2/4/09 22:14	SAH	
4-Bromofluorobenzene (surr)	95.0	%	70-130	1	2/4/09 22:14	SAH	
Dibromofluoromethane (surr)	136	%	70-130	1	2/4/09 22:14	SAH	1
Toluene-d8 (surr)	104	%	70-130	1	2/4/09 22:14	SAH	
Total Solids by EPA 1684							
Total Solids	86.6	%	0.1	1	2/5/09 7:35	SAH	

Soil results are reported on a dry weight basis.

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Lab Project Number: SML09-003
Client: Mundell & Associates, Inc.
Client Project ID: M01046 / Michigan Plaza

Lab Sample Number: 09-0102 Matrix: soil Date Collected: 2/3/09
Client Sample ID: SB-2 7-8 Date Received: 2/4/09

Analyses	Result	Units	Reporting Limit	DF	Date & Time Analyzed	Analyst	Quals
GCMS VOCs by EPA 8260B/5035							
Acetone	ND	mg/kg	0.025	1	2/4/09 22:44	SAH	
Acrylonitrile	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
Benzene	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
Bromobenzene	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
Bromochloromethane	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
Bromodichloromethane	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
Bromoform	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
Bromomethane (Methyl Bromide)	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
n-Butylbenzene	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
sec-Butylbenzene	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
tert-Butylbenzene	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
Carbon disulfide	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
Carbon tetrachloride	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
Chlorobenzene	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
Chlorodibromomethane	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
Chloroethane	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
Chloroform	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
Chloromethane (Methyl Chloride)	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
2-Chlorotoluene	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
4-Chlorotoluene	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
2-Chloroethyl vinyl ether	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
1,2-Dibromoethane	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
Dibromomethane (Methylene Bromide)	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
1,2-Dichlorobenzene	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
1,3-Dichlorobenzene	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
1,4-Dichlorobenzene	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
Dichlorodifluoromethane	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
1,1-Dichloroethane	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
1,2-Dichloroethane	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
1,1-Dichloroethene	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
cis-1,2-Dichloroethene	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
trans-1,2-Dichloroethene	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
1,2-Dichloropropane	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
1,3-Dichloropropane	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
2,2-Dichloropropane	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
1,1-Dichloropropene	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
cis-1,3-Dichloropropene	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
trans-1,3-Dichloropropene	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
Ethylbenzene	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
Ethyl methacrylate	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	

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Lab Project Number: SML09-003
Client: Mundell & Associates, Inc.
Client Project ID: M01046 / Michigan Plaza

Lab Sample Number: 09-0102	Matrix: soil	Date Collected: 2/3/09
Client Sample ID: SB-2 7-8		Date Received: 2/4/09

Analyses	Result	Units	Reporting Limit	DF	Date & Time Analyzed	Analyst	Quals
GCMS VOCs by EPA 8260B/5035							
2-Hexanone	ND	mg/kg	0.013	1	2/4/09 22:44	SAH	
Hexachlorobutadiene	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
Iodomethane	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
Isopropylbenzene	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
p-Isopropyltoluene	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
Methyl Ethyl Ketone (2-Butanone)	ND	mg/kg	0.013	1	2/4/09 22:44	SAH	
Methyl(tert) butyl ether (MTBE)	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.013	1	2/4/09 22:44	SAH	
Naphthalene	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
n-Propylbenzene	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
Styrene	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
Tetrachloroethene	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
Toluene	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
1,2,3-Trichlorobenzene	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
1,2,4-Trichlorobenzene	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
1,1,1-Trichloroethane	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
1,1,2-Trichloroethane	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
Trichloroethene	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
Trichlorofluoromethane	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
1,2,3-Trichloropropane	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
1,2,4-Trimethylbenzene	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
1,3,5-Trimethylbenzene	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
Vinyl acetate	ND	mg/kg	0.005	1	2/4/09 22:44	SAH	
Vinyl chloride	ND	mg/kg	0.002	1	2/4/09 22:44	SAH	
Xylenes, Total	ND	mg/kg	0.015	1	2/4/09 22:44	SAH	
4-Bromofluorobenzene (surr)	97.5	%	70-130	1	2/4/09 22:44	SAH	
Dibromofluoromethane (surr)	132	%	70-130	1	2/4/09 22:44	SAH	1
Toluene-d8 (surr)	108	%	70-130	1	2/4/09 22:44	SAH	
Total Solids by EPA 1684							
Total Solids	83.4	%	0.1	1	2/5/09 7:35	SAH	

Soil results are reported on a dry weight basis.

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Lab Project Number: SML09-003
Client: Mundell & Associates, Inc.
Client Project ID: M01046 / Michigan Plaza

Lab Sample Number: 09-0103 Matrix: soil Date Collected: 2/3/09
Client Sample ID: SB-2 11-12 Date Received: 2/4/09

Analyses	Result	Units	Reporting Limit	DF	Date & Time Analyzed	Analyst	Quals
GCMS VOCs by EPA 8260B/5035							
Acetone	ND	mg/kg	0.025	1	2/5/09 7:37	SAH	
Acrylonitrile	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
Benzene	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
Bromobenzene	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
Bromochloromethane	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
Bromodichloromethane	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
Bromoform	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
Bromomethane (Methyl Bromide)	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
n-Butylbenzene	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
sec-Butylbenzene	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
tert-Butylbenzene	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
Carbon disulfide	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
Carbon tetrachloride	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
Chlorobenzene	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
Chlorodibromomethane	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
Chloroethane	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
Chloroform	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
Chloromethane (Methyl Chloride)	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
2-Chlorotoluene	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
4-Chlorotoluene	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
2-Chloroethyl vinyl ether	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
1,2-Dibromoethane	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
Dibromomethane (Methylene Bromide)	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
1,2-Dichlorobenzene	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
1,3-Dichlorobenzene	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
1,4-Dichlorobenzene	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
Dichlorodifluoromethane	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
1,1-Dichloroethane	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
1,2-Dichloroethane	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
1,1-Dichloroethene	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
cis-1,2-Dichloroethene	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
trans-1,2-Dichloroethene	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
1,2-Dichloropropane	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
1,3-Dichloropropane	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
2,2-Dichloropropane	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
1,1-Dichloropropene	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
cis-1,3-Dichloropropene	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
trans-1,3-Dichloropropene	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
Ethylbenzene	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
Ethyl methacrylate	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	

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Lab Project Number: SML09-003
Client: Mundell & Associates, Inc.
Client Project ID: M01046 / Michigan Plaza

Lab Sample Number: 09-0103 Matrix: soil Date Collected: 2/3/09
Client Sample ID: SB-2 11-12 Date Received: 2/4/09

Analyses	Result	Units	Reporting Limit	DF	Date & Time Analyzed	Analyst	Quals
GCMS VOCs by EPA 8260B/5035							
2-Hexanone	ND	mg/kg	0.013	1	2/5/09 7:37	SAH	
Hexachlorobutadiene	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
Iodomethane	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
Isopropylbenzene	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
p-Isopropyltoluene	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
Methyl Ethyl Ketone (2-Butanone)	ND	mg/kg	0.013	1	2/5/09 7:37	SAH	
Methyl(tert) butyl ether (MTBE)	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.013	1	2/5/09 7:37	SAH	
Naphthalene	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
n-Propylbenzene	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
Styrene	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
Tetrachloroethene	0.006	mg/kg	0.005	1	2/5/09 7:37	SAH	
Toluene	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
1,2,3-Trichlorobenzene	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
1,2,4-Trichlorobenzene	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
1,1,1-Trichloroethane	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
1,1,2-Trichloroethane	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
Trichloroethene	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
Trichlorofluoromethane	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
1,2,3-Trichloropropane	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
1,2,4-Trimethylbenzene	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
1,3,5-Trimethylbenzene	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
Vinyl acetate	ND	mg/kg	0.005	1	2/5/09 7:37	SAH	
Vinyl chloride	ND	mg/kg	0.002	1	2/5/09 7:37	SAH	
Xylenes, Total	ND	mg/kg	0.015	1	2/5/09 7:37	SAH	
4-Bromofluorobenzene (surr)	82.8	%	70-130	1	2/5/09 7:37	SAH	
Dibromofluoromethane (surr)	134	%	70-130	1	2/5/09 7:37	SAH	1
Toluene-d8 (surr)	95.5	%	70-130	1	2/5/09 7:37	SAH	
Total Solids by EPA 1684							
Total Solids	96.0	%	0.1	1	2/5/09 7:35	SAH	

Soil results are reported on a dry weight basis.

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Lab Project Number: SML09-003
Client: Mundell & Associates, Inc.
Client Project ID: M01046 / Michigan Plaza

Lab Sample Number: 09-0104 Matrix: soil Date Collected: 2/3/09
Client Sample ID: SB-2 15-16 Date Received: 2/4/09

Analyses	Result	Units	Reporting Limit	DF	Date & Time Analyzed	Analyst	Quals
GCMS VOCs by EPA 8260B/5035							
Acetone	ND	mg/kg	0.025	1	2/4/09 23:43	SAH	
Acrylonitrile	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
Benzene	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
Bromobenzene	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
Bromochloromethane	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
Bromodichloromethane	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
Bromoform	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
Bromomethane (Methyl Bromide)	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
n-Butylbenzene	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
sec-Butylbenzene	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
tert-Butylbenzene	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
Carbon disulfide	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
Carbon tetrachloride	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
Chlorobenzene	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
Chlorodibromomethane	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
Chloroethane	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
Chloroform	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
Chloromethane (Methyl Chloride)	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
2-Chlorotoluene	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
4-Chlorotoluene	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
2-Chloroethyl vinyl ether	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
1,2-Dibromoethane	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
Dibromomethane (Methylene Bromide)	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
1,2-Dichlorobenzene	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
1,3-Dichlorobenzene	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
1,4-Dichlorobenzene	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
Dichlorodifluoromethane	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
1,1-Dichloroethane	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
1,2-Dichloroethane	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
1,1-Dichloroethene	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
cis-1,2-Dichloroethene	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
trans-1,2-Dichloroethene	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
1,2-Dichloropropane	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
1,3-Dichloropropane	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
2,2-Dichloropropane	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
1,1-Dichloropropene	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
cis-1,3-Dichloropropene	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
trans-1,3-Dichloropropene	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
Ethylbenzene	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
Ethyl methacrylate	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	

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Lab Project Number: SML09-003
Client: Mundell & Associates, Inc.
Client Project ID: M01046 / Michigan Plaza

Lab Sample Number: 09-0104	Matrix: soil	Date Collected: 2/3/09
Client Sample ID: SB-2 15-16		Date Received: 2/4/09

Analyses	Result	Units	Reporting Limit	DF	Date & Time Analyzed	Analyst	Quals
GCMS VOCs by EPA 8260B/5035							
2-Hexanone	ND	mg/kg	0.013	1	2/4/09 23:43	SAH	
Hexachlorobutadiene	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
Iodomethane	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
Isopropylbenzene	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
p-Isopropyltoluene	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
Methyl Ethyl Ketone (2-Butanone)	ND	mg/kg	0.013	1	2/4/09 23:43	SAH	
Methyl(tert) butyl ether (MTBE)	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.013	1	2/4/09 23:43	SAH	
Naphthalene	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
n-Propylbenzene	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
Styrene	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
Tetrachloroethene	0.017	mg/kg	0.005	1	2/4/09 23:43	SAH	
Toluene	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
1,2,3-Trichlorobenzene	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
1,2,4-Trichlorobenzene	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
1,1,1-Trichloroethane	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
1,1,2-Trichloroethane	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
Trichloroethene	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
Trichlorofluoromethane	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
1,2,3-Trichloropropane	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
1,2,4-Trimethylbenzene	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
1,3,5-Trimethylbenzene	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
Vinyl acetate	ND	mg/kg	0.005	1	2/4/09 23:43	SAH	
Vinyl chloride	ND	mg/kg	0.002	1	2/4/09 23:43	SAH	
Xylenes, Total	ND	mg/kg	0.015	1	2/4/09 23:43	SAH	
4-Bromofluorobenzene (surr)	81.9	%	70-130	1	2/4/09 23:43	SAH	
Dibromofluoromethane (surr)	139	%	70-130	1	2/4/09 23:43	SAH	1
Toluene-d8 (surr)	98.0	%	70-130	1	2/4/09 23:43	SAH	
Total Solids by EPA 1684							
Total Solids	96.1	%	0.1	1	2/5/09 7:35	SAH	

Soil results are reported on a dry weight basis.

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Lab Project Number: SML09-003
Client: Mundell & Associates, Inc.
Client Project ID: M01046 / Michigan Plaza

Lab Sample Number: 09-0105 Matrix: soil Date Collected: 2/3/09
Client Sample ID: SB-3 2-3 Date Received: 2/4/09

Analyses	Result	Units	Reporting Limit	DF	Date & Time Analyzed	Analyst	Quals
GCMS VOCs by EPA 8260B/5035							
Acetone	ND	mg/kg	0.025	1	2/5/09 0:41	SAH	
Acrylonitrile	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
Benzene	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
Bromobenzene	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
Bromochloromethane	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
Bromodichloromethane	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
Bromoform	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
Bromomethane (Methyl Bromide)	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
n-Butylbenzene	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
sec-Butylbenzene	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
tert-Butylbenzene	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
Carbon disulfide	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
Carbon tetrachloride	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
Chlorobenzene	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
Chlorodibromomethane	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
Chloroethane	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
Chloroform	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
Chloromethane (Methyl Chloride)	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
2-Chlorotoluene	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
4-Chlorotoluene	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
2-Chloroethyl vinyl ether	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
1,2-Dibromoethane	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
Dibromomethane (Methylene Bromide)	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
1,2-Dichlorobenzene	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
1,3-Dichlorobenzene	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
1,4-Dichlorobenzene	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
Dichlorodifluoromethane	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
1,1-Dichloroethane	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
1,2-Dichloroethane	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
1,1-Dichloroethene	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
cis-1,2-Dichloroethene	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
trans-1,2-Dichloroethene	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
1,2-Dichloropropane	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
1,3-Dichloropropane	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
2,2-Dichloropropane	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
1,1-Dichloropropene	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
cis-1,3-Dichloropropene	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
trans-1,3-Dichloropropene	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
Ethylbenzene	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
Ethyl methacrylate	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	

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Lab Project Number: SML09-003
Client: Mundell & Associates, Inc.
Client Project ID: M01046 / Michigan Plaza

Lab Sample Number: 09-0105	Matrix: soil	Date Collected: 2/3/09
Client Sample ID: SB-3 2-3		Date Received: 2/4/09

Analyses	Result	Units	Reporting Limit	DF	Date & Time Analyzed	Analyst	Quals
GCMS VOCs by EPA 8260B/5035							
2-Hexanone	ND	mg/kg	0.013	1	2/5/09 0:41	SAH	
Hexachlorobutadiene	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
Iodomethane	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
Isopropylbenzene	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
p-Isopropyltoluene	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
Methyl Ethyl Ketone (2-Butanone)	ND	mg/kg	0.013	1	2/5/09 0:41	SAH	
Methyl(tert) butyl ether (MTBE)	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.013	1	2/5/09 0:41	SAH	
Naphthalene	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
n-Propylbenzene	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
Styrene	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
Tetrachloroethene	0.071	mg/kg	0.005	1	2/5/09 0:41	SAH	
Toluene	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
1,2,3-Trichlorobenzene	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
1,2,4-Trichlorobenzene	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
1,1,1-Trichloroethane	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
1,1,2-Trichloroethane	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
Trichloroethene	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
Trichlorofluoromethane	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
1,2,3-Trichloropropane	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
1,2,4-Trimethylbenzene	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
1,3,5-Trimethylbenzene	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
Vinyl acetate	ND	mg/kg	0.005	1	2/5/09 0:41	SAH	
Vinyl chloride	ND	mg/kg	0.002	1	2/5/09 0:41	SAH	
Xylenes, Total	ND	mg/kg	0.015	1	2/5/09 0:41	SAH	
4-Bromofluorobenzene (surr)	87.5	%	70-130	1	2/5/09 0:41	SAH	
Dibromofluoromethane (surr)	137	%	70-130	1	2/5/09 0:41	SAH	1
Toluene-d8 (surr)	99.1	%	70-130	1	2/5/09 0:41	SAH	
Total Solids by EPA 1684							
Total Solids	87.8	%	0.1	1	2/5/09 7:35	SAH	

Soil results are reported on a dry weight basis.

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Lab Project Number: SML09-003
Client: Mundell & Associates, Inc.
Client Project ID: M01046 / Michigan Plaza

Lab Sample Number: 09-0106	Matrix: soil	Date Collected: 2/3/09
Client Sample ID: SB-4 6-7		Date Received: 2/4/09

Analyses	Result	Units	Reporting Limit	DF	Date & Time Analyzed	Analyst	Quals
GCMS VOCs by EPA 8260B/5035							
Acetone	ND	mg/kg	0.025	1	2/5/09 1:10	SAH	
Acrylonitrile	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
Benzene	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
Bromobenzene	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
Bromochloromethane	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
Bromodichloromethane	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
Bromoform	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
Bromomethane (Methyl Bromide)	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
n-Butylbenzene	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
sec-Butylbenzene	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
tert-Butylbenzene	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
Carbon disulfide	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
Carbon tetrachloride	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
Chlorobenzene	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
Chlorodibromomethane	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
Chloroethane	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
Chloroform	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
Chloromethane (Methyl Chloride)	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
2-Chlorotoluene	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
4-Chlorotoluene	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
2-Chloroethyl vinyl ether	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
1,2-Dibromoethane	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
Dibromomethane (Methylene Bromide)	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
1,2-Dichlorobenzene	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
1,3-Dichlorobenzene	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
1,4-Dichlorobenzene	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
Dichlorodifluoromethane	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
1,1-Dichloroethane	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
1,2-Dichloroethane	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
1,1-Dichloroethene	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
cis-1,2-Dichloroethene	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
trans-1,2-Dichloroethene	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
1,2-Dichloropropane	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
1,3-Dichloropropane	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
2,2-Dichloropropane	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
1,1-Dichloropropene	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
cis-1,3-Dichloropropene	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
trans-1,3-Dichloropropene	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
Ethylbenzene	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
Ethyl methacrylate	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	

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Lab Project Number: SML09-003
Client: Mundell & Associates, Inc.
Client Project ID: M01046 / Michigan Plaza

Lab Sample Number: 09-0106	Matrix: soil	Date Collected: 2/3/09
Client Sample ID: SB-4 6-7		Date Received: 2/4/09

Analyses	Result	Units	Reporting Limit	DF	Date & Time Analyzed	Analyst	Quals
GCMS VOCs by EPA 8260B/5035							
2-Hexanone	ND	mg/kg	0.013	1	2/5/09 1:10	SAH	
Hexachlorobutadiene	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
Iodomethane	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
Isopropylbenzene	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
p-Isopropyltoluene	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
Methyl Ethyl Ketone (2-Butanone)	ND	mg/kg	0.013	1	2/5/09 1:10	SAH	
Methyl(tert) butyl ether (MTBE)	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.013	1	2/5/09 1:10	SAH	
Naphthalene	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
n-Propylbenzene	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
Styrene	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
Tetrachloroethene	0.061	mg/kg	0.005	1	2/5/09 1:10	SAH	
Toluene	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
1,2,3-Trichlorobenzene	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
1,2,4-Trichlorobenzene	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
1,1,1-Trichloroethane	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
1,1,2-Trichloroethane	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
Trichloroethene	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
Trichlorofluoromethane	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
1,2,3-Trichloropropane	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
1,2,4-Trimethylbenzene	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
1,3,5-Trimethylbenzene	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
Vinyl acetate	ND	mg/kg	0.005	1	2/5/09 1:10	SAH	
Vinyl chloride	ND	mg/kg	0.002	1	2/5/09 1:10	SAH	
Xylenes, Total	ND	mg/kg	0.015	1	2/5/09 1:10	SAH	
4-Bromofluorobenzene (surr)	86.2	%	70-130	1	2/5/09 1:10	SAH	
Dibromofluoromethane (surr)	127	%	70-130	1	2/5/09 1:10	SAH	
Toluene-d8 (surr)	91.2	%	70-130	1	2/5/09 1:10	SAH	
Total Solids by EPA 1684							
Total Solids	89.3	%	0.1	1	2/5/09 7:35	SAH	

Soil results are reported on a dry weight basis.

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Lab Project Number: SML09-003
Client: Mundell & Associates, Inc.
Client Project ID: M01046 / Michigan Plaza

Lab Sample Number: 09-0107	Matrix: water	Date Collected: 2/4/09
Client Sample ID: SB-7 (23')		Date Received: 2/4/09

Analyses	Result	Units	Reporting Limit	DF	Date & Time Analyzed	Analyst	Quals
GCMS VOCs by EPA 8260B/5035							
Acetone	ND	µg/L	13	1	2/4/09 20:15	SAH	
Acrylonitrile	ND	µg/L	5	1	2/4/09 20:15	SAH	
Benzene	ND	µg/L	5	1	2/4/09 20:15	SAH	
Bromobenzene	ND	µg/L	5	1	2/4/09 20:15	SAH	
Bromochloromethane	ND	µg/L	5	1	2/4/09 20:15	SAH	
Bromodichloromethane	ND	µg/L	5	1	2/4/09 20:15	SAH	
Bromoform	ND	µg/L	5	1	2/4/09 20:15	SAH	
Bromomethane (Methyl Bromide)	ND	µg/L	5	1	2/4/09 20:15	SAH	
n-Butylbenzene	ND	µg/L	5	1	2/4/09 20:15	SAH	
sec-Butylbenzene	ND	µg/L	5	1	2/4/09 20:15	SAH	
tert-Butylbenzene	ND	µg/L	5	1	2/4/09 20:15	SAH	
Carbon disulfide	ND	µg/L	5	1	2/4/09 20:15	SAH	
Carbon tetrachloride	ND	µg/L	5	1	2/4/09 20:15	SAH	
Chlorobenzene	ND	µg/L	5	1	2/4/09 20:15	SAH	
Chlorodibromomethane	ND	µg/L	5	1	2/4/09 20:15	SAH	
Chloroethane	ND	µg/L	5	1	2/4/09 20:15	SAH	
Chloroform	ND	µg/L	5	1	2/4/09 20:15	SAH	
Chloromethane (Methyl Chloride)	ND	µg/L	5	1	2/4/09 20:15	SAH	
2-Chlorotoluene	ND	µg/L	5	1	2/4/09 20:15	SAH	
4-Chlorotoluene	ND	µg/L	5	1	2/4/09 20:15	SAH	
2-Chloroethyl vinyl ether	ND	µg/L	5	1	2/4/09 20:15	SAH	
1,2-Dibromo-3-chloropropane	ND	µg/L	5	1	2/4/09 20:15	SAH	
1,2-Dibromoethane	ND	µg/L	5	1	2/4/09 20:15	SAH	
Dibromomethane (Methylene Bromide)	ND	µg/L	5	1	2/4/09 20:15	SAH	
1,2-Dichlorobenzene	ND	µg/L	5	1	2/4/09 20:15	SAH	
1,3-Dichlorobenzene	ND	µg/L	5	1	2/4/09 20:15	SAH	
1,4-Dichlorobenzene	ND	µg/L	5	1	2/4/09 20:15	SAH	
Dichlorodifluoromethane	ND	µg/L	5	1	2/4/09 20:15	SAH	
trans-1,4-Dichloro-2-butene	ND	µg/L	5	1	2/4/09 20:15	SAH	
1,1-Dichloroethane	ND	µg/L	5	1	2/4/09 20:15	SAH	
1,2-Dichloroethane	ND	µg/L	5	1	2/4/09 20:15	SAH	
1,1-Dichloroethene	ND	µg/L	5	1	2/4/09 20:15	SAH	
cis-1,2-Dichloroethene	350	µg/L	50	10	2/5/09 8:06	SAH	
trans-1,2-Dichloroethene	24.3	µg/L	5	1	2/4/09 20:15	SAH	
1,2-Dichloropropane	ND	µg/L	5	1	2/4/09 20:15	SAH	
1,3-Dichloropropane	ND	µg/L	5	1	2/4/09 20:15	SAH	
2,2-Dichloropropane	ND	µg/L	5	1	2/4/09 20:15	SAH	
1,1-Dichloropropene	ND	µg/L	5	1	2/4/09 20:15	SAH	
cis-1,3-Dichloropropene	ND	µg/L	5	1	2/4/09 20:15	SAH	
trans-1,3-Dichloropropene	ND	µg/L	5	1	2/4/09 20:15	SAH	
Ethylbenzene	ND	µg/L	5	1	2/4/09 20:15	SAH	
Ethyl methacrylate	ND	µg/L	5	1	2/4/09 20:15	SAH	

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Lab Project Number: SML09-003
Client: Mundell & Associates, Inc.
Client Project ID: M01046 / Michigan Plaza

Lab Sample Number: 09-0107	Matrix: water	Date Collected: 2/4/09
Client Sample ID: SB-7 (23')		Date Received: 2/4/09

Analyses	Result	Units	Reporting Limit	DF	Date & Time Analyzed	Analyst	Quals
GCMS VOCs by EPA 8260B/5035							
2-Hexanone	ND	µg/L	13	1	2/4/09 20:15	SAH	
Hexachlorobutadiene	ND	µg/L	5	1	2/4/09 20:15	SAH	
Iodomethane	ND	µg/L	5	1	2/4/09 20:15	SAH	
Isopropylbenzene	ND	µg/L	5	1	2/4/09 20:15	SAH	
p-Isopropyltoluene	ND	µg/L	5	1	2/4/09 20:15	SAH	
Methyl Ethyl Ketone (2-Butanone)	ND	µg/L	13	1	2/4/09 20:15	SAH	
Methyl(tert) butyl ether (MTBE)	ND	µg/L	5	1	2/4/09 20:15	SAH	
4-Methyl-2-pentanone (MIBK)	ND	µg/L	13	1	2/4/09 20:15	SAH	
Naphthalene	ND	µg/L	5	1	2/4/09 20:15	SAH	
n-Propylbenzene	ND	µg/L	5	1	2/4/09 20:15	SAH	
Styrene	ND	µg/L	5	1	2/4/09 20:15	SAH	
1,1,1,2-Tetrachloroethane	ND	µg/L	5	1	2/4/09 20:15	SAH	
1,1,2,2-Tetrachloroethane	ND	µg/L	5	1	2/4/09 20:15	SAH	
Tetrachloroethene	ND	µg/L	5	1	2/4/09 20:15	SAH	
Toluene	ND	µg/L	5	1	2/4/09 20:15	SAH	
1,2,3-Trichlorobenzene	ND	µg/L	5	1	2/4/09 20:15	SAH	
1,2,4-Trichlorobenzene	ND	µg/L	5	1	2/4/09 20:15	SAH	
1,1,1-Trichloroethane	ND	µg/L	5	1	2/4/09 20:15	SAH	
1,1,2-Trichloroethane	ND	µg/L	5	1	2/4/09 20:15	SAH	
Trichloroethene	ND	µg/L	5	1	2/4/09 20:15	SAH	
Trichlorofluoromethane	ND	µg/L	5	1	2/4/09 20:15	SAH	
1,2,3-Trichloropropane	ND	µg/L	5	1	2/4/09 20:15	SAH	
1,2,4-Trimethylbenzene	ND	µg/L	5	1	2/4/09 20:15	SAH	
1,3,5-Trimethylbenzene	ND	µg/L	5	1	2/4/09 20:15	SAH	
Vinyl acetate	ND	µg/L	5	1	2/4/09 20:15	SAH	
Vinyl chloride	52.3	µg/L	2	1	2/4/09 20:15	SAH	
Xylenes, Total	ND	µg/L	15	1	2/4/09 20:15	SAH	
4-Bromofluorobenzene (surr)	103	%	70-130	1	2/4/09 20:15	SAH	
Dibromofluoromethane (surr)	125	%	70-130	1	2/4/09 20:15	SAH	
Toluene-d8 (surr)	102	%	70-130	1	2/4/09 20:15	SAH	

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Lab Project Number: SML09-003
Client: Mundell & Associates, Inc.
Client Project ID: M01046 / Michigan Plaza

Lab Sample Number: 09-0108 Matrix: soil Date Collected: 2/4/09
Client Sample ID: SB-7 3-4 Date Received: 2/4/09

Analyses	Result	Units	Reporting Limit	DF	Date & Time Analyzed	Analyst	Quals
GCMS VOCs by EPA 8260B/5035							
Acetone	ND	mg/kg	0.025	1	2/5/09 1:40	SAH	
Acrylonitrile	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
Benzene	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
Bromobenzene	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
Bromochloromethane	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
Bromodichloromethane	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
Bromoform	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
Bromomethane (Methyl Bromide)	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
n-Butylbenzene	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
sec-Butylbenzene	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
tert-Butylbenzene	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
Carbon disulfide	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
Carbon tetrachloride	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
Chlorobenzene	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
Chlorodibromomethane	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
Chloroethane	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
Chloroform	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
Chloromethane (Methyl Chloride)	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
2-Chlorotoluene	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
4-Chlorotoluene	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
2-Chloroethyl vinyl ether	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
1,2-Dibromoethane	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
Dibromomethane (Methylene Bromide)	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
1,2-Dichlorobenzene	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
1,3-Dichlorobenzene	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
1,4-Dichlorobenzene	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
Dichlorodifluoromethane	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
1,1-Dichloroethane	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
1,2-Dichloroethane	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
1,1-Dichloroethene	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
cis-1,2-Dichloroethene	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
trans-1,2-Dichloroethene	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
1,2-Dichloropropane	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
1,3-Dichloropropane	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
2,2-Dichloropropane	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
1,1-Dichloropropene	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
cis-1,3-Dichloropropene	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
trans-1,3-Dichloropropene	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
Ethylbenzene	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
Ethyl methacrylate	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	

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Lab Project Number: SML09-003
Client: Mundell & Associates, Inc.
Client Project ID: M01046 / Michigan Plaza

Lab Sample Number: 09-0108 Matrix: soil Date Collected: 2/4/09
Client Sample ID: SB-7 3-4 Date Received: 2/4/09

Analyses	Result	Units	Reporting Limit	DF	Date & Time Analyzed	Analyst	Quals
GCMS VOCs by EPA 8260B/5035							
2-Hexanone	ND	mg/kg	0.013	1	2/5/09 1:40	SAH	
Hexachlorobutadiene	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
Iodomethane	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
Isopropylbenzene	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
p-Isopropyltoluene	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
Methyl Ethyl Ketone (2-Butanone)	ND	mg/kg	0.013	1	2/5/09 1:40	SAH	
Methyl(tert) butyl ether (MTBE)	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.013	1	2/5/09 1:40	SAH	
Naphthalene	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
n-Propylbenzene	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
Styrene	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
Tetrachloroethene	0.009	mg/kg	0.005	1	2/5/09 1:40	SAH	
Toluene	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
1,2,3-Trichlorobenzene	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
1,2,4-Trichlorobenzene	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
1,1,1-Trichloroethane	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
1,1,2-Trichloroethane	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
Trichloroethene	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
Trichlorofluoromethane	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
1,2,3-Trichloropropane	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
1,2,4-Trimethylbenzene	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
1,3,5-Trimethylbenzene	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
Vinyl acetate	ND	mg/kg	0.005	1	2/5/09 1:40	SAH	
Vinyl chloride	ND	mg/kg	0.002	1	2/5/09 1:40	SAH	
Xylenes, Total	ND	mg/kg	0.015	1	2/5/09 1:40	SAH	
4-Bromofluorobenzene (surr)	85.8	%	70-130	1	2/5/09 1:40	SAH	
Dibromofluoromethane (surr)	134	%	70-130	1	2/5/09 1:40	SAH	1
Toluene-d8 (surr)	96.1	%	70-130	1	2/5/09 1:40	SAH	
Total Solids by EPA 1684							
Total Solids	89.1	%	0.1	1	2/5/09 7:35	SAH	

Soil results are reported on a dry weight basis.

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: SML09-003
Client: Mundell & Associates, Inc.
Client Project ID: M01046 / Michigan Plaza

Lab Sample Number: 09-0109 Matrix: soil Date Collected: 2/4/09
Client Sample ID: SB-7 10-11 Date Received: 2/4/09

Analyses	Result	Units	Reporting Limit	DF	Date & Time Analyzed	Analyst	Quals
GCMS VOCs by EPA 8260B/5035							
Acetone	ND	mg/kg	0.025	1	2/5/09 6:39	SAH	
Acrylonitrile	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
Benzene	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
Bromobenzene	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
Bromochloromethane	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
Bromodichloromethane	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
Bromoform	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
Bromomethane (Methyl Bromide)	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
n-Butylbenzene	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
sec-Butylbenzene	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
tert-Butylbenzene	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
Carbon disulfide	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
Carbon tetrachloride	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
Chlorobenzene	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
Chlorodibromomethane	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
Chloroethane	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
Chloroform	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
Chloromethane (Methyl Chloride)	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
2-Chlorotoluene	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
4-Chlorotoluene	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
2-Chloroethyl vinyl ether	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
1,2-Dibromoethane	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
Dibromomethane (Methylene Bromide)	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
1,2-Dichlorobenzene	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
1,3-Dichlorobenzene	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
1,4-Dichlorobenzene	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
Dichlorodifluoromethane	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
1,1-Dichloroethane	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
1,2-Dichloroethane	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
1,1-Dichloroethene	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
cis-1,2-Dichloroethene	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
trans-1,2-Dichloroethene	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
1,2-Dichloropropane	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
1,3-Dichloropropane	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
2,2-Dichloropropane	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
1,1-Dichloropropene	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
cis-1,3-Dichloropropene	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
trans-1,3-Dichloropropene	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
Ethylbenzene	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
Ethyl methacrylate	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	

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Lab Project Number: SML09-003
Client: Mundell & Associates, Inc.
Client Project ID: M01046 / Michigan Plaza

Lab Sample Number: 09-0109	Matrix: soil	Date Collected: 2/4/09
Client Sample ID: SB-7 10-11		Date Received: 2/4/09

Analyses	Result	Units	Reporting Limit	DF	Date & Time Analyzed	Analyst	Quals
GCMS VOCs by EPA 8260B/5035							
2-Hexanone	ND	mg/kg	0.013	1	2/5/09 6:39	SAH	
Hexachlorobutadiene	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
Iodomethane	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
Isopropylbenzene	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
p-Isopropyltoluene	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
Methyl Ethyl Ketone (2-Butanone)	ND	mg/kg	0.013	1	2/5/09 6:39	SAH	
Methyl(tert) butyl ether (MTBE)	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.013	1	2/5/09 6:39	SAH	
Naphthalene	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
n-Propylbenzene	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
Styrene	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
Tetrachloroethene	0.010	mg/kg	0.005	1	2/5/09 6:39	SAH	
Toluene	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
1,2,3-Trichlorobenzene	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
1,2,4-Trichlorobenzene	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
1,1,1-Trichloroethane	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
1,1,2-Trichloroethane	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
Trichloroethene	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
Trichlorofluoromethane	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
1,2,3-Trichloropropane	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
1,2,4-Trimethylbenzene	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
1,3,5-Trimethylbenzene	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
Vinyl acetate	ND	mg/kg	0.005	1	2/5/09 6:39	SAH	
Vinyl chloride	ND	mg/kg	0.002	1	2/5/09 6:39	SAH	
Xylenes, Total	ND	mg/kg	0.015	1	2/5/09 6:39	SAH	
4-Bromofluorobenzene (surr)	82.7	%	70-130	1	2/5/09 6:39	SAH	
Dibromofluoromethane (surr)	125	%	70-130	1	2/5/09 6:39	SAH	
Toluene-d8 (surr)	94.5	%	70-130	1	2/5/09 6:39	SAH	
Total Solids by EPA 1684							
Total Solids	95.7	%	0.1	1	2/5/09 7:35	SAH	

Soil results are reported on a dry weight basis.

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Lab Project Number: SML09-003
Client: Mundell & Associates, Inc.
Client Project ID: M01046 / Michigan Plaza

Lab Sample Number: 09-0110 Matrix: soil Date Collected: 2/4/09
Client Sample ID: SB-7 15-16 Date Received: 2/4/09

Analyses	Result	Units	Reporting Limit	DF	Date & Time Analyzed	Analyst	Quals
GCMS VOCs by EPA 8260B/5035							
Acetone	ND	mg/kg	0.025	1	2/5/09 7:08	SAH	
Acrylonitrile	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
Benzene	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
Bromobenzene	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
Bromochloromethane	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
Bromodichloromethane	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
Bromoform	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
Bromomethane (Methyl Bromide)	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
n-Butylbenzene	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
sec-Butylbenzene	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
tert-Butylbenzene	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
Carbon disulfide	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
Carbon tetrachloride	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
Chlorobenzene	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
Chlorodibromomethane	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
Chloroethane	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
Chloroform	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
Chloromethane (Methyl Chloride)	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
2-Chlorotoluene	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
4-Chlorotoluene	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
2-Chloroethyl vinyl ether	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
1,2-Dibromoethane	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
Dibromomethane (Methylene Bromide)	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
1,2-Dichlorobenzene	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
1,3-Dichlorobenzene	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
1,4-Dichlorobenzene	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
Dichlorodifluoromethane	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
trans-1,4-Dichloro-2-butene	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
1,1-Dichloroethane	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
1,2-Dichloroethane	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
1,1-Dichloroethene	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
cis-1,2-Dichloroethene	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
trans-1,2-Dichloroethene	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
1,2-Dichloropropane	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
1,3-Dichloropropane	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
2,2-Dichloropropane	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
1,1-Dichloropropene	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
cis-1,3-Dichloropropene	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
trans-1,3-Dichloropropene	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
Ethylbenzene	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
Ethyl methacrylate	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	

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Lab Project Number: SML09-003
Client: Mundell & Associates, Inc.
Client Project ID: M01046 / Michigan Plaza

Lab Sample Number: 09-0110 Matrix: soil Date Collected: 2/4/09
Client Sample ID: SB-7 15-16 Date Received: 2/4/09

Analyses	Result	Units	Reporting Limit	DF	Date & Time Analyzed	Analyst	Quals
GCMS VOCs by EPA 8260B/5035							
2-Hexanone	ND	mg/kg	0.013	1	2/5/09 7:08	SAH	
Hexachlorobutadiene	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
Iodomethane	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
Isopropylbenzene	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
p-Isopropyltoluene	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
Methyl Ethyl Ketone (2-Butanone)	ND	mg/kg	0.013	1	2/5/09 7:08	SAH	
Methyl(tert) butyl ether (MTBE)	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.013	1	2/5/09 7:08	SAH	
Naphthalene	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
n-Propylbenzene	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
Styrene	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
Tetrachloroethene	0.010	mg/kg	0.005	1	2/5/09 7:08	SAH	
Toluene	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
1,2,3-Trichlorobenzene	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
1,2,4-Trichlorobenzene	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
1,1,1-Trichloroethane	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
1,1,2-Trichloroethane	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
Trichloroethene	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
Trichlorofluoromethane	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
1,2,3-Trichloropropane	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
1,2,4-Trimethylbenzene	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
1,3,5-Trimethylbenzene	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
Vinyl acetate	ND	mg/kg	0.005	1	2/5/09 7:08	SAH	
Vinyl chloride	ND	mg/kg	0.002	1	2/5/09 7:08	SAH	
Xylenes, Total	ND	mg/kg	0.015	1	2/5/09 7:08	SAH	
4-Bromofluorobenzene (surr)	80.5	%	70-130	1	2/5/09 7:08	SAH	
Dibromofluoromethane (surr)	134	%	70-130	1	2/5/09 7:08	SAH	1
Toluene-d8 (surr)	93.5	%	70-130	1	2/5/09 7:08	SAH	
Total Solids by EPA 1684							
Total Solids	96.4	%	0.1	1	2/5/09 7:35	SAH	

Soil results are reported on a dry weight basis.

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Lab Project Number: SML09-003
Client: Mundell & Associates, Inc.
Client Project ID: M01046 / Michigan Plaza

Lab Sample Number: 09-0132 Matrix: water Date Collected: 2/5/09
Client Sample ID: SB-6 (23') Date Received: 2/5/09

Analyses	Result	Units	Reporting Limit	DF	Date & Time Analyzed	Analyst	Quals
GCMS VOCs by EPA 8260B/5035							
Acetone	ND	µg/L	13	1	2/9/09 11:52	SAH	
Acrylonitrile	ND	µg/L	5	1	2/9/09 11:52	SAH	
Benzene	ND	µg/L	5	1	2/9/09 11:52	SAH	
Bromobenzene	ND	µg/L	5	1	2/9/09 11:52	SAH	
Bromochloromethane	ND	µg/L	5	1	2/9/09 11:52	SAH	
Bromodichloromethane	ND	µg/L	5	1	2/9/09 11:52	SAH	
Bromoform	ND	µg/L	5	1	2/9/09 11:52	SAH	
Bromomethane (Methyl Bromide)	ND	µg/L	5	1	2/9/09 11:52	SAH	
n-Butylbenzene	ND	µg/L	5	1	2/9/09 11:52	SAH	
sec-Butylbenzene	ND	µg/L	5	1	2/9/09 11:52	SAH	
tert-Butylbenzene	ND	µg/L	5	1	2/9/09 11:52	SAH	
Carbon disulfide	ND	µg/L	5	1	2/9/09 11:52	SAH	
Carbon tetrachloride	ND	µg/L	5	1	2/9/09 11:52	SAH	
Chlorobenzene	ND	µg/L	5	1	2/9/09 11:52	SAH	
Chlorodibromomethane	ND	µg/L	5	1	2/9/09 11:52	SAH	
Chloroethane	ND	µg/L	5	1	2/9/09 11:52	SAH	
Chloroform	ND	µg/L	5	1	2/9/09 11:52	SAH	
Chloromethane (Methyl Chloride)	ND	µg/L	5	1	2/9/09 11:52	SAH	
2-Chlorotoluene	ND	µg/L	5	1	2/9/09 11:52	SAH	
4-Chlorotoluene	ND	µg/L	5	1	2/9/09 11:52	SAH	
2-Chloroethyl vinyl ether	ND	µg/L	5	1	2/9/09 11:52	SAH	
1,2-Dibromo-3-chloropropane	ND	µg/L	5	1	2/9/09 11:52	SAH	
1,2-Dibromoethane	ND	µg/L	5	1	2/9/09 11:52	SAH	
Dibromomethane (Methylene Bromide)	ND	µg/L	5	1	2/9/09 11:52	SAH	
1,2-Dichlorobenzene	ND	µg/L	5	1	2/9/09 11:52	SAH	
1,3-Dichlorobenzene	ND	µg/L	5	1	2/9/09 11:52	SAH	
1,4-Dichlorobenzene	ND	µg/L	5	1	2/9/09 11:52	SAH	
Dichlorodifluoromethane	ND	µg/L	5	1	2/9/09 11:52	SAH	
trans-1,4-Dichloro-2-butene	ND	µg/L	5	1	2/9/09 11:52	SAH	
1,1-Dichloroethane	ND	µg/L	5	1	2/9/09 11:52	SAH	
1,2-Dichloroethane	ND	µg/L	5	1	2/9/09 11:52	SAH	
1,1-Dichloroethene	ND	µg/L	5	1	2/9/09 11:52	SAH	
cis-1,2-Dichloroethene	10.6	µg/L	5	1	2/9/09 11:52	SAH	
trans-1,2-Dichloroethene	ND	µg/L	5	1	2/9/09 11:52	SAH	
1,2-Dichloropropane	ND	µg/L	5	1	2/9/09 11:52	SAH	
1,3-Dichloropropane	ND	µg/L	5	1	2/9/09 11:52	SAH	
2,2-Dichloropropane	ND	µg/L	5	1	2/9/09 11:52	SAH	
1,1-Dichloropropene	ND	µg/L	5	1	2/9/09 11:52	SAH	
cis-1,3-Dichloropropene	ND	µg/L	5	1	2/9/09 11:52	SAH	
trans-1,3-Dichloropropene	ND	µg/L	5	1	2/9/09 11:52	SAH	
Ethylbenzene	ND	µg/L	5	1	2/9/09 11:52	SAH	
Ethyl methacrylate	ND	µg/L	5	1	2/9/09 11:52	SAH	

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Lab Project Number: SML09-003
Client: Mundell & Associates, Inc.
Client Project ID: M01046 / Michigan Plaza

Lab Sample Number: 09-0132	Matrix: water	Date Collected: 2/5/09
Client Sample ID: SB-6 (23')		Date Received: 2/5/09

Analyses	Result	Units	Reporting Limit	DF	Date & Time Analyzed	Analyst	Quals
GCMS VOCs by EPA 8260B/5035							
2-Hexanone	ND	µg/L	13	1	2/9/09 11:52	SAH	
Hexachlorobutadiene	ND	µg/L	5	1	2/9/09 11:52	SAH	
Iodomethane	ND	µg/L	5	1	2/9/09 11:52	SAH	
Isopropylbenzene	ND	µg/L	5	1	2/9/09 11:52	SAH	
p-Isopropyltoluene	ND	µg/L	5	1	2/9/09 11:52	SAH	
Methyl Ethyl Ketone (2-Butanone)	ND	µg/L	13	1	2/9/09 11:52	SAH	
Methyl(tert) butyl ether (MTBE)	ND	µg/L	5	1	2/9/09 11:52	SAH	
4-Methyl-2-pentanone (MIBK)	ND	µg/L	13	1	2/9/09 11:52	SAH	
Naphthalene	ND	µg/L	5	1	2/9/09 11:52	SAH	
n-Propylbenzene	ND	µg/L	5	1	2/9/09 11:52	SAH	
Styrene	ND	µg/L	5	1	2/9/09 11:52	SAH	
1,1,1,2-Tetrachloroethane	ND	µg/L	5	1	2/9/09 11:52	SAH	
1,1,2,2-Tetrachloroethane	ND	µg/L	5	1	2/9/09 11:52	SAH	
Tetrachloroethene	ND	µg/L	5	1	2/9/09 11:52	SAH	
Toluene	ND	µg/L	5	1	2/9/09 11:52	SAH	
1,2,3-Trichlorobenzene	ND	µg/L	5	1	2/9/09 11:52	SAH	
1,2,4-Trichlorobenzene	ND	µg/L	5	1	2/9/09 11:52	SAH	
1,1,1-Trichloroethane	ND	µg/L	5	1	2/9/09 11:52	SAH	
1,1,2-Trichloroethane	ND	µg/L	5	1	2/9/09 11:52	SAH	
Trichloroethene	ND	µg/L	5	1	2/9/09 11:52	SAH	
Trichlorofluoromethane	ND	µg/L	5	1	2/9/09 11:52	SAH	
1,2,3-Trichloropropane	ND	µg/L	5	1	2/9/09 11:52	SAH	
1,2,4-Trimethylbenzene	ND	µg/L	5	1	2/9/09 11:52	SAH	
1,3,5-Trimethylbenzene	ND	µg/L	5	1	2/9/09 11:52	SAH	
Vinyl acetate	ND	µg/L	5	1	2/9/09 11:52	SAH	
Vinyl chloride	ND	µg/L	2	1	2/9/09 11:52	SAH	
Xylenes, Total	ND	µg/L	15	1	2/9/09 11:52	SAH	
4-Bromofluorobenzene (surr)	110	%	70-130	1	2/9/09 11:52	SAH	
Dibromofluoromethane (surr)	148	%	70-130	1	2/9/09 11:52	SAH	1
Toluene-d8 (surr)	114	%	70-130	1	2/9/09 11:52	SAH	

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Lab Project Number: SML09-003
Client: Mundell & Associates, Inc.
Client Project ID: M01046 / Michigan Plaza

Lab Sample Number: 09-0140	Matrix: water	Date Collected: 2/5/09
Client Sample ID: SB-5 (23')		Date Received: 2/6/09

Analyses	Result	Units	Reporting Limit	DF	Date & Time Analyzed	Analyst	Quals
GCMS VOCs by EPA 8260B/5035							
Acetone	ND	µg/L	13	1	2/9/09 12:23	SAH	
Acrylonitrile	ND	µg/L	5	1	2/9/09 12:23	SAH	
Benzene	ND	µg/L	5	1	2/9/09 12:23	SAH	
Bromobenzene	ND	µg/L	5	1	2/9/09 12:23	SAH	
Bromochloromethane	ND	µg/L	5	1	2/9/09 12:23	SAH	
Bromodichloromethane	ND	µg/L	5	1	2/9/09 12:23	SAH	
Bromoform	ND	µg/L	5	1	2/9/09 12:23	SAH	
Bromomethane (Methyl Bromide)	ND	µg/L	5	1	2/9/09 12:23	SAH	
n-Butylbenzene	ND	µg/L	5	1	2/9/09 12:23	SAH	
sec-Butylbenzene	ND	µg/L	5	1	2/9/09 12:23	SAH	
tert-Butylbenzene	ND	µg/L	5	1	2/9/09 12:23	SAH	
Carbon disulfide	ND	µg/L	5	1	2/9/09 12:23	SAH	
Carbon tetrachloride	ND	µg/L	5	1	2/9/09 12:23	SAH	
Chlorobenzene	ND	µg/L	5	1	2/9/09 12:23	SAH	
Chlorodibromomethane	ND	µg/L	5	1	2/9/09 12:23	SAH	
Chloroethane	ND	µg/L	5	1	2/9/09 12:23	SAH	
Chloroform	ND	µg/L	5	1	2/9/09 12:23	SAH	
Chloromethane (Methyl Chloride)	ND	µg/L	5	1	2/9/09 12:23	SAH	
2-Chlorotoluene	ND	µg/L	5	1	2/9/09 12:23	SAH	
4-Chlorotoluene	ND	µg/L	5	1	2/9/09 12:23	SAH	
2-Chloroethyl vinyl ether	ND	µg/L	5	1	2/9/09 12:23	SAH	
1,2-Dibromo-3-chloropropane	ND	µg/L	5	1	2/9/09 12:23	SAH	
1,2-Dibromoethane	ND	µg/L	5	1	2/9/09 12:23	SAH	
Dibromomethane (Methylene Bromide)	ND	µg/L	5	1	2/9/09 12:23	SAH	
1,2-Dichlorobenzene	ND	µg/L	5	1	2/9/09 12:23	SAH	
1,3-Dichlorobenzene	ND	µg/L	5	1	2/9/09 12:23	SAH	
1,4-Dichlorobenzene	ND	µg/L	5	1	2/9/09 12:23	SAH	
Dichlorodifluoromethane	ND	µg/L	5	1	2/9/09 12:23	SAH	
trans-1,4-Dichloro-2-butene	ND	µg/L	5	1	2/9/09 12:23	SAH	
1,1-Dichloroethane	ND	µg/L	5	1	2/9/09 12:23	SAH	
1,2-Dichloroethane	ND	µg/L	5	1	2/9/09 12:23	SAH	
1,1-Dichloroethene	ND	µg/L	5	1	2/9/09 12:23	SAH	
cis-1,2-Dichloroethene	74.0	µg/L	5	1	2/9/09 12:23	SAH	
trans-1,2-Dichloroethene	17.8	µg/L	5	1	2/9/09 12:23	SAH	
1,2-Dichloropropane	ND	µg/L	5	1	2/9/09 12:23	SAH	
1,3-Dichloropropane	ND	µg/L	5	1	2/9/09 12:23	SAH	
2,2-Dichloropropane	ND	µg/L	5	1	2/9/09 12:23	SAH	
1,1-Dichloropropene	ND	µg/L	5	1	2/9/09 12:23	SAH	
cis-1,3-Dichloropropene	ND	µg/L	5	1	2/9/09 12:23	SAH	
trans-1,3-Dichloropropene	ND	µg/L	5	1	2/9/09 12:23	SAH	
Ethylbenzene	ND	µg/L	5	1	2/9/09 12:23	SAH	
Ethyl methacrylate	ND	µg/L	5	1	2/9/09 12:23	SAH	

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Lab Project Number: SML09-003
Client: Mundell & Associates, Inc.
Client Project ID: M01046 / Michigan Plaza

Lab Sample Number: 09-0140	Matrix: water	Date Collected: 2/5/09
Client Sample ID: SB-5 (23')		Date Received: 2/6/09

Analyses	Result	Units	Reporting Limit	DF	Date & Time Analyzed	Analyst	Quals
GCMS VOCs by EPA 8260B/5035							
2-Hexanone	ND	µg/L	13	1	2/9/09 12:23	SAH	
Hexachlorobutadiene	ND	µg/L	5	1	2/9/09 12:23	SAH	
Iodomethane	ND	µg/L	5	1	2/9/09 12:23	SAH	
Isopropylbenzene	ND	µg/L	5	1	2/9/09 12:23	SAH	
p-Isopropyltoluene	ND	µg/L	5	1	2/9/09 12:23	SAH	
Methyl Ethyl Ketone (2-Butanone)	ND	µg/L	13	1	2/9/09 12:23	SAH	
Methyl(tert) butyl ether (MTBE)	ND	µg/L	5	1	2/9/09 12:23	SAH	
4-Methyl-2-pentanone (MIBK)	ND	µg/L	13	1	2/9/09 12:23	SAH	
Naphthalene	ND	µg/L	5	1	2/9/09 12:23	SAH	
n-Propylbenzene	ND	µg/L	5	1	2/9/09 12:23	SAH	
Styrene	ND	µg/L	5	1	2/9/09 12:23	SAH	
1,1,1,2-Tetrachloroethane	ND	µg/L	5	1	2/9/09 12:23	SAH	
1,1,2,2-Tetrachloroethane	ND	µg/L	5	1	2/9/09 12:23	SAH	
Tetrachloroethene	ND	µg/L	5	1	2/9/09 12:23	SAH	
Toluene	ND	µg/L	5	1	2/9/09 12:23	SAH	
1,2,3-Trichlorobenzene	ND	µg/L	5	1	2/9/09 12:23	SAH	
1,2,4-Trichlorobenzene	ND	µg/L	5	1	2/9/09 12:23	SAH	
1,1,1-Trichloroethane	ND	µg/L	5	1	2/9/09 12:23	SAH	
1,1,2-Trichloroethane	ND	µg/L	5	1	2/9/09 12:23	SAH	
Trichloroethene	ND	µg/L	5	1	2/9/09 12:23	SAH	
Trichlorofluoromethane	ND	µg/L	5	1	2/9/09 12:23	SAH	
1,2,3-Trichloropropane	ND	µg/L	5	1	2/9/09 12:23	SAH	
1,2,4-Trimethylbenzene	ND	µg/L	5	1	2/9/09 12:23	SAH	
1,3,5-Trimethylbenzene	ND	µg/L	5	1	2/9/09 12:23	SAH	
Vinyl acetate	ND	µg/L	5	1	2/9/09 12:23	SAH	
Vinyl chloride	ND	µg/L	2	1	2/9/09 12:23	SAH	
Xylenes, Total	ND	µg/L	15	1	2/9/09 12:23	SAH	
4-Bromofluorobenzene (surr)	112	%	70-130	1	2/9/09 12:23	SAH	
Dibromofluoromethane (surr)	140	%	70-130	1	2/9/09 12:23	SAH	1
Toluene-d8 (surr)	114	%	70-130	1	2/9/09 12:23	SAH	

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Lab Project Number: SML09-003

Client: Mundell & Associates, Inc.

Client Project ID: M01046 / Michigan Plaza

FOOTNOTES

The dilution factors shown represents the factors applied to the reported result and reporting limit due to changes in sample preparation, dilution of the extract, or moisture content.

ND	Not detected at or above the reporting limit
J	Estimated concentration above the method detection limit and below the reporting limit
MDL	Method detection limit
(surr)	Surrogate
E	The reported value exceeds the calibration range of the instrument. The results is qualified as estimated.
{1}	The surrogate recovery lies outside the established control range.

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Quality Control Data

Method Blank

Analytes	Result	Units	Reporting	Quals
			Limit	
GCMS VOCs by EPA 8260B/5035				
Acetone	ND	µg/L	25	
Acrylonitrile	ND	µg/L	5	
Benzene	ND	µg/L	5	
Bromobenzene	ND	µg/L	5	
Bromochloromethane	ND	µg/L	5	
Bromodichloromethane	ND	µg/L	5	
Bromoform	ND	µg/L	5	
Bromomethane (Methyl Bromide)	ND	µg/L	5	
n-Butylbenzene	ND	µg/L	5	
sec-Butylbenzene	ND	µg/L	5	
tert-Butylbenzene	ND	µg/L	5	
Carbon disulfide	ND	µg/L	5	
Carbon tetrachloride	ND	µg/L	5	
Chlorobenzene	ND	µg/L	5	
Chlorodibromomethane	ND	µg/L	5	
Chloroethane	ND	µg/L	5	
Chloroform	ND	µg/L	5	
Chloromethane (Methyl Chloride)	ND	µg/L	5	
2-Chlorotoluene	ND	µg/L	5	
4-Chlorotoluene	ND	µg/L	5	
2-Chloroethyl vinyl ether	ND	µg/L	5	
1,2-Dibromo-3-chloropropane	ND	µg/L	5	
1,2-Dibromoethane	ND	µg/L	5	
Dibromomethane (Methylene Bromide)	ND	µg/L	5	
1,2-Dichlorobenzene	ND	µg/L	5	
1,3-Dichlorobenzene	ND	µg/L	5	
1,4-Dichlorobenzene	ND	µg/L	5	
Dichlorodifluoromethane	ND	µg/L	5	
trans-1,4-Dichloro-2-butene	ND	µg/L	5	
1,1-Dichloroethane	ND	µg/L	5	
1,2-Dichloroethane	ND	µg/L	5	
1,1-Dichloroethene	ND	µg/L	5	
cis-1,2-Dichloroethene	ND	µg/L	5	
trans-1,2-Dichloroethene	ND	µg/L	5	
1,2-Dichloropropane	ND	µg/L	5	
1,3-Dichloropropane	ND	µg/L	5	
2,2-Dichloropropane	ND	µg/L	5	
1,1-Dichloropropene	ND	µg/L	5	
cis-1,3-Dichloropropene	ND	µg/L	5	
trans-1,3-Dichloropropene	ND	µg/L	5	
Ethylbenzene	ND	µg/L	5	
Ethyl methacrylate	ND	µg/L	5	

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Analytes	Result	Units	Reporting	Quals
			Limit	
GCMS VOCs by EPA 8260B/5035				
2-Hexanone	ND	µg/L	13	
Hexachlorobutadiene	ND	µg/L	5	
Iodomethane	ND	µg/L	5	
Isopropylbenzene	ND	µg/L	5	
p-Isopropyltoluene	ND	µg/L	5	
Methyl Ethyl Ketone (2-Butanone)	ND	µg/L	13	
Methyl(tert) butyl ether (MTBE)	ND	µg/L	5	
4-Methyl-2-pentanone (MIBK)	ND	µg/L	13	
Naphthalene	ND	µg/L	5	
n-Propylbenzene	ND	µg/L	5	
Styrene	ND	µg/L	5	
1,1,1,2-Tetrachloroethane	ND	µg/L	5	
1,1,2,2-Tetrachloroethane	ND	µg/L	5	
Tetrachloroethene	ND	µg/L	5	
Toluene	ND	µg/L	5	
1,2,3-Trichlorobenzene	ND	µg/L	5	
1,2,4-Trichlorobenzene	ND	µg/L	5	
1,1,1-Trichloroethane	ND	µg/L	5	
1,1,2-Trichloroethane	ND	µg/L	5	
Trichloroethene	ND	µg/L	5	
Trichlorofluoromethane	ND	µg/L	5	
1,2,3-Trichloropropane	ND	µg/L	5	
1,2,4-Trimethylbenzene	ND	µg/L	5	
1,3,5-Trimethylbenzene	ND	µg/L	5	
Vinyl acetate	ND	µg/L	10	
Vinyl chloride	ND	µg/L	2	
Xylenes, Total	ND	µg/L	15	
4-Bromofluorobenzene (surr)	104	%	70-130	
Dibromofluoromethane (surr)	126	%	70-130	
Toluene-d8 (surr)	100	%	70-130	

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Analytes	Result	Units	Reporting	Quals
			Limit	
GCMS VOCs by EPA 8260B/5035				
Acetone	ND	µg/L	13	
Acrylonitrile	ND	µg/L	5	
Benzene	ND	µg/L	5	
Bromobenzene	ND	µg/L	5	
Bromochloromethane	ND	µg/L	5	
Bromodichloromethane	ND	µg/L	5	
Bromoform	ND	µg/L	5	
Bromomethane (Methyl Bromide)	ND	µg/L	5	
n-Butylbenzene	ND	µg/L	5	
sec-Butylbenzene	ND	µg/L	5	
tert-Butylbenzene	ND	µg/L	5	
Carbon disulfide	ND	µg/L	5	
Carbon tetrachloride	ND	µg/L	5	
Chlorobenzene	ND	µg/L	5	
Chlorodibromomethane	ND	µg/L	5	
Chloroethane	ND	µg/L	5	
Chloroform	ND	µg/L	5	
Chloromethane (Methyl Chloride)	ND	µg/L	5	
2-Chlorotoluene	ND	µg/L	5	
4-Chlorotoluene	ND	µg/L	5	
2-Chloroethyl vinyl ether	ND	µg/L	5	
1,2-Dibromo-3-chloropropane	ND	µg/L	5	
1,2-Dibromoethane	ND	µg/L	5	
Dibromomethane (Methylene Bromide)	ND	µg/L	5	
1,2-Dichlorobenzene	ND	µg/L	5	
1,3-Dichlorobenzene	ND	µg/L	5	
1,4-Dichlorobenzene	ND	µg/L	5	
Dichlorodifluoromethane	ND	µg/L	5	
trans-1,4-Dichloro-2-butene	ND	µg/L	5	
1,1-Dichloroethane	ND	µg/L	5	
1,2-Dichloroethane	ND	µg/L	5	
1,1-Dichloroethene	ND	µg/L	5	
cis-1,2-Dichloroethene	ND	µg/L	5	
trans-1,2-Dichloroethene	ND	µg/L	5	
1,2-Dichloropropane	ND	µg/L	5	
1,3-Dichloropropane	ND	µg/L	5	
2,2-Dichloropropane	ND	µg/L	5	
1,1-Dichloropropene	ND	µg/L	5	
cis-1,3-Dichloropropene	ND	µg/L	5	
trans-1,3-Dichloropropene	ND	µg/L	5	
Ethylbenzene	ND	µg/L	5	
Ethyl methacrylate	ND	µg/L	5	

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Analytes	Result	Units	Reporting	Quals
			Limit	
GCMS VOCs by EPA 8260B/5035				
2-Hexanone	ND	µg/L	13	1
Hexachlorobutadiene	ND	µg/L	5	
Iodomethane	ND	µg/L	5	
Isopropylbenzene	ND	µg/L	5	
p-Isopropyltoluene	ND	µg/L	5	
Methyl Ethyl Ketone (2-Butanone)	ND	µg/L	13	
Methyl(tert) butyl ether (MTBE)	ND	µg/L	5	
4-Methyl-2-pentanone (MIBK)	ND	µg/L	13	
Naphthalene	ND	µg/L	5	
n-Propylbenzene	ND	µg/L	5	
Styrene	ND	µg/L	5	
1,1,1,2-Tetrachloroethane	ND	µg/L	5	
1,1,2,2-Tetrachloroethane	ND	µg/L	5	
Tetrachloroethene	ND	µg/L	5	
Toluene	ND	µg/L	5	
1,2,3-Trichlorobenzene	ND	µg/L	5	
1,2,4-Trichlorobenzene	ND	µg/L	5	
1,1,1-Trichloroethane	ND	µg/L	5	
1,1,2-Trichloroethane	ND	µg/L	5	
Trichloroethene	ND	µg/L	5	
Trichlorofluoromethane	ND	µg/L	5	
1,2,3-Trichloropropane	ND	µg/L	5	
1,2,4-Trimethylbenzene	ND	µg/L	5	
1,3,5-Trimethylbenzene	ND	µg/L	5	
Vinyl acetate	ND	µg/L	5	
Vinyl chloride	ND	µg/L	2	
Xylenes, Total	ND	µg/L	15	
4-Bromofluorobenzene (surr)	108	%	70-130	
Dibromofluoromethane (surr)	150	%	70-130	
Toluene-d8 (surr)	103	%	70-130	

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Quality Control Data

Laboratory Control Sample

Analytes	LCS Result	Units	Spike Conc.	LCS % Recovery	% Recovery Limits	Quals
GCMS VOCs by EPA 8260B/5035						
Benzene	46.6	µg/L	50	93%	70-130	
Chlorobenzene	47.8	µg/L	50	96%	70-130	
1,1-Dichloroethene	55.9	µg/L	50	112%	70-130	
Toluene	46.0	µg/L	50	92%	70-130	
Trichloroethene	54.2	µg/L	50	108%	70-130	
4-Bromofluorobenzene (surr)	110	%			70-130	
Dibromofluoromethane (surr)	112	%			70-130	
Toluene-d8 (surr)	106	%			70-130	

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Quality Control Data

Laboratory Control Sample

Analytes	LCS Result	Units	Spike Conc.	LCS % Recovery	% Recovery Limits	Quals
GCMS VOCs by EPA 8260B/5035						
Benzene	49.0	µg/L	50	98%	70-130	2
Chlorobenzene	47.6	µg/L	50	95%	70-130	
1,1-Dichloroethene	93.9	µg/L	50	188%	70-130	
Toluene	46.5	µg/L	50	93%	70-130	
Trichloroethene	59.6	µg/L	50	119%	70-130	
4-Bromofluorobenzene (surr)	110	%			70-130	
Dibromofluoromethane (surr)	125	%			70-130	
Toluene-d8 (surr)	101	%			70-130	

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Quality Control Data

Spiked Sample: 09-0107

Matrix Spike/Matrix Spike Duplicate Results

Analytes	Sample Result	Units	Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	RPD Limit	Quals
GCMS VOCs by EPA 8260B/5035											
Benzene	ND	µg/L	50	46.8	48.8	94	98	70-130	4.2	0-20	
Chlorobenzene	ND	µg/L	50	47.2	48.9	94	98	70-130	3.5	0-20	
1,1-Dichloroethene	ND	µg/L	50	63.9	62.2	128	124	70-130	2.6	0-20	
Toluene	ND	µg/L	50	46.6	46.6	93	93	70-130	0.0	0-20	
Trichloroethene	ND	µg/L	50	55.2	54.3	110	109	70-130	1.6	0-20	
4-Bromofluorobenzene (surr)	103	%		108	105			70-130			
Dibromofluoromethane (surr)	125	%		112	114			70-130			
Toluene-d8 (surr)	102	%		104	104			70-130			

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: SML09-003

Client: Mundell & Associates, Inc.

Client Project ID: M01046 / Michigan Plaza

QUALITY CONTROL DATA FOOTNOTES

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

LCS(D)	Laboratory control sample (duplicate)
MS(D)	Matrix spike (duplicate)
DUP	Sample Duplicate
ND	Not detected above the reporting limit
J	Estimated concentration above the method detection limit and below the reporting limit
MDL	Method detection limit
RPD	Relative percent difference
(surr)	Surrogate
{1}	The surrogate recovery lies outside the established control range.
{2}	The LCS recovery for this compound is outside the established control range.

REPORT OF LABORATORY ANALYSIS

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Chain of Custody Record

Page 1 of 3

Project No.		Project Name:		Location of Sampling Site				Analysis and Method Requested				Shipment Seal No.			
M01046		Michigan Plaza													
Sampler (Signature)		Purchase Order NO.													
No.	Sample Field I.D. No.	Date	Time	Comp	Grab	Matrix	No. of Cont.	Type Container	Preserve	Anal.	Method				
1	SB-1 11-12				✓	S	2	40L	none	✓	VOCs	09-0090			
2	SB-1 14-15				✓	S	2	✓	✓	✓		091			
3	SB-3 11-12				✓	S	2	✓	✓	✓		092			
4	SB-3 15-16				✓	S	2	✓	✓	✓		093			
5	SB-4 10-11				✓	S	2	✓	✓	✓		094			
6	SB-4 16-17				✓	S	2	✓	✓	✓		095			
7	SB-1				✓	W	3	40mL	HCl	✓		096			
8	SB-3 (23')				✓	W	3	✓	✓	✓		097			
9	SB-4 (23')				✓	W	3	✓	✓	✓		098			
10	SB-2 (33-34')				✓	W	3	✓	✓	✓	priority sample	099			
Remarks/Special Instructions (Detection Limit, Rush results Requested, etc.)															
1. Relinquished by: (Signature)		Date/Time		1. Received by: (Signature)				2. Relinquished by: (Signature)				Date/Time		2. Received by: (Sig.)	
JAL															
3. Relinquished by: (Signature)		Date/Time		Received for Laboratory by: (Sig.)				Date/Time				Client ID Number:			
				Handwritten Signature				2/4/09 1700							
Seal intact at lab? Yes No				Report Results to:				Phone No.:							

214/29
0855
1300



Chain of Custody Record

Page 2 of 3

Project No.		Project Name:		Location of Sampling Site				Purchase Order NO.				Analysis and Method Requested				Shipment Seal No.			
NO1046		Michigan Plaza																	
Sampler (Signature)																			
No.	Sample Field I.D. No.	Date	Time	Comp	Grab	Matrix	No. of Cont.	Type Container	Preserve	Anal.	Method								
1	SB-2 (24')				✓	W	3	40ml	HCl	✓	8260								
2	SB-1 ² 6-7				✓	S	1	402	none	✓	WCS								
3	SB-1 ² 7-8				✓					✓									
4	SB-1 ² 11-12				✓					✓									
5	SB-1 ² 15-16				✓					✓									
6	SB-3 2-3				✓					✓									
7	SB-4 6-7				✓					✓									
8	SB-7 (23')				✓	W	3	40ml	HCl	✓									
9	SB-7 3-4				✓	S	1	402	none	✓									
10	SB-7 10-11				✓	S	1			✓									
Remarks/Special Instructions (Detection Limit, Rush results Requested, etc.)																			
1. Relinquished by: (Signature)				Date/Time				1. Received by: (Signature)				Date/Time				2. Received by: (Sig.)			
[Signature]																			
3. Relinquished by: (Signature)				Date/Time				Received for Laboratory by: (Sig.)				Date/Time				Client ID Number:			
[Signature]								[Signature]				2/4/09 1700							
Seal intact at lab? Yes No																			
Report Results to: Phone No.:																			

2/4/09
1300
1700



Chain of Custody Record

Page 3 of 3

Project No. <i>MO1046</i>		Project Name: <i>Michigan Plaza</i>		Location of Sampling Site				Analysis and Method Requested				Shipment Seal No.			
Sampler (Signature)				Purchase Order NO.				Method <i>8260</i>							
No.	Sample Field I.D. No.	Date	Time	Comp	Grab	Matrix	No. of Cont.	Type Container	Preserve	Anal.	Lab ID No. Filled in by lab <i>09-0110</i>				
1	<i>SB-7 15-16</i>				☒	<i>S</i>	<i>1</i>	<i>40#</i>	<i>none</i>	☒					
2															
3															
4															
5															
6															
7															
8															
9															
10															
Remarks/Special Instructions (Detection Limit, Rush results Requested, etc.)															
1. Relinquished by: (Signature) <i>JA W...</i>		Date/Time		1. Received by: (Signature)				2. Relinquished by: (Signature)				Date/Time		2. Received by: (Sig.)	
3. Relinquished by: (Signature)		Date/Time		Received for Laboratory by: (Sig.) <i>Stanley A. Hunsicker</i>				Client ID Number:				Date/Time <i>2/10/99 1700</i>			
Seal intact at lab? Yes No				Report Results to:				Phone No.:							



Chain of Custody Record

Page 1 of 1

Project No.		Project Name:		Location of Sampling Site				Analysis and Method Requested				Shipment Seal No.	
M01046		Michigan Plaza						Method					
Sampler (Signature)		Purchase Order NO.						Anal.				Lab ID No.	
No.	Sample Field I.D. No.	Date	Time	Comp	Grab	Matrix	No. of Cont.	Type Container	Preserve	Filled in by lab			
1	SB-6 (23')	2/5/09	1400		✓	W	3	40ml	HCl	09-0132			
2													
3													
4													
5													
6													
7													
8													
9													
10													
Remarks/Special Instructions (Detection Limit, Rush results Requested, etc.)													
1. Relinquished by: (Signature)		Date/Time		1. Received by: (Signature)				2. Relinquished by: (Signature)				2. Received by: (Sig.)	
[Signature]													
3. Relinquished by: (Signature)		Date/Time		Received for Laboratory by: (Sig.)				Date/Time				Client ID Number:	
				[Signature]				2/5/09 1500					
Seal intact at lab?		Yes		No		Report/Results to:				Phone No.:			



Chain of Custody Record

Page 1 of 1

Project No. M01046		Project Name: Michigan Plaza		Location of Sampling Site				Analysis and Method Requested				Shipment Seal No.	
Sampler (Signature)		Purchase Order NO.						Method 8260					
No.	Sample Field I.D. No.	Date	Time	Comp	Grab	Matrix	No. of Cont.	Type Container	Preserve	Anal.	Lab ID No. Filled in by lab 09-0140		
1	SB-5 (23')	2/5/09	1500		✓	W	3	40ml	HCl	✓			
2													
3													
4													
5													
6													
7													
8													
9													
10													
Remarks/Special Instructions (Detection Limit, Rush results Requested, etc.)													
1. Relinquished by: (Signature)		Date/Time		1. Received by: (Signature)				2. Relinquished by: (Signature)				2. Received by: (Sig.)	
3. Relinquished by: (Signature)		Date/Time 2/6/09 14:30		Received for Laboratory by: (Sig.) <i>Stanley A. Hummel</i>				Date/Time 2/6/09 10:50				Client ID Number:	
Seal intact at lab? Yes No		Report Results to:		Phone No.:									

BFB

Data File : C:\HPCHEM\2\DATA\V011609\V0116001.D

Vial: 1

Acq On : 16 Jan 09 4:06 pm

Operator: Stan Hunnicutt

Sample : MB

Inst : GC/MS Ins

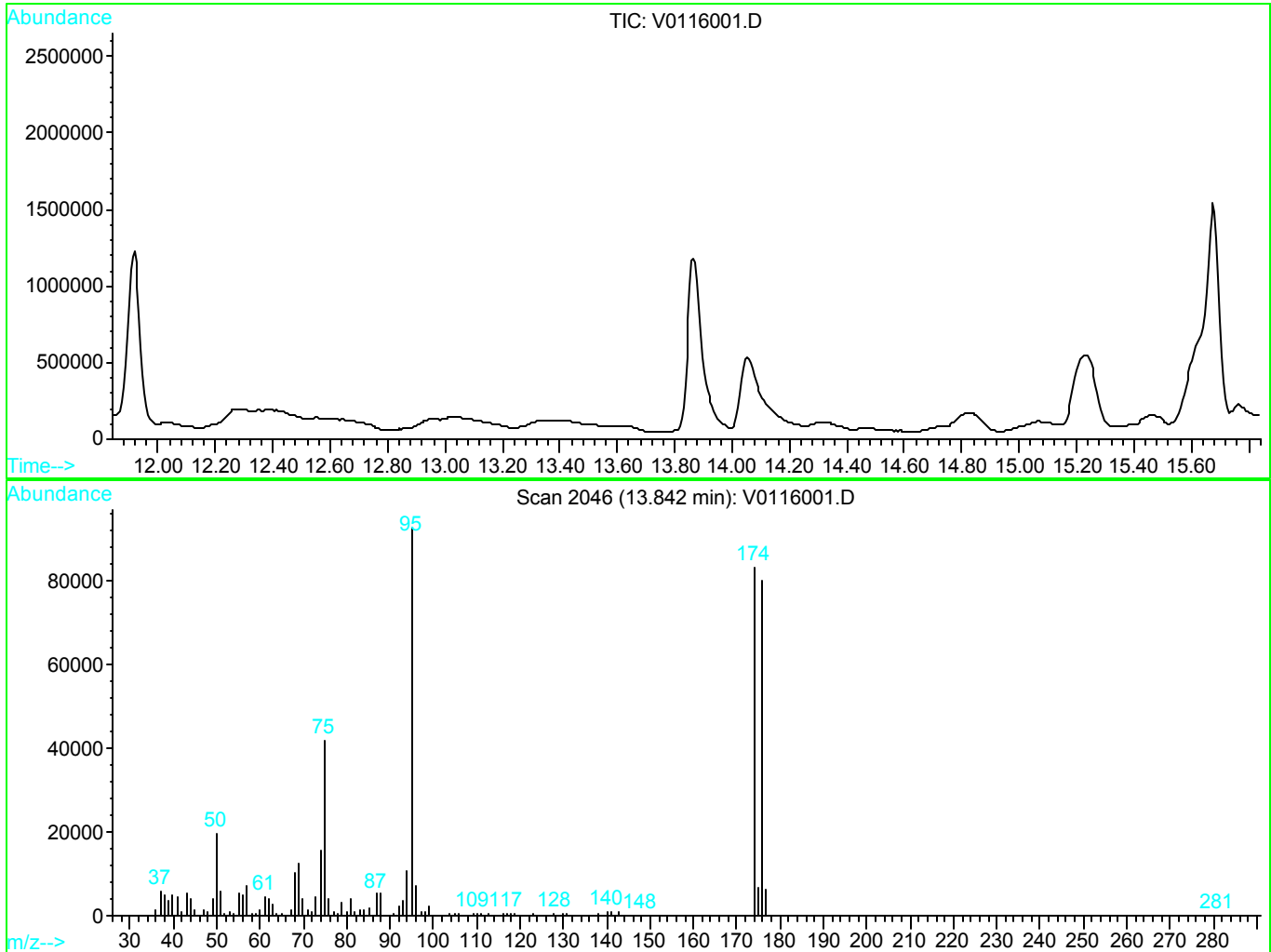
Misc : VOL195 10ul

Multiplr: 1.00

MS Integration Params: events.e

Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260



Spectrum Information: Scan 2046

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	21.3	19696	PASS
75	95	30	60	45.5	42016	PASS
95	95	100	100	100.0	92440	PASS
96	95	5	9	7.5	6910	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	90.1	83312	PASS
175	174	5	9	8.2	6838	PASS
176	174	95	101	96.0	80000	PASS
177	176	5	9	7.6	6041	PASS

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V011609\V0116002.D

Vial: 2

Acq On : 16 Jan 09 4:36 pm

Operator: Stan Hunnicutt

Sample : VOC std 2ug/L

Inst : GC/MS Ins

Misc : VOL196 1ul

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Jan 17 22:57 19109

Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Sat Jan 17 22:43:29 2009

Response via : Initial Calibration

DataAcq Meth : VOL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	7.02	96	10619405	50.00	ug/l	-0.01
46) CHLOROBENZENE-d5	11.91	117	12406116	50.00	ug/l	-0.03
69) 1,4-DICHLOROBENZENE-d4	15.66	152	7885095	50.00	ug/l	-0.04

System Monitoring Compounds

23) DIBROMOFLUOROMETHANE	5.75	113	3167424	51.38	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	102.76%	
35) TOLUENE-d8	9.50	98	13336221	51.44	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	102.88%	
55) BROMOFLUOROBENZENE	13.85	95	6260761	47.28	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	94.56%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.70	85	197006	2.26	ug/l #	43
4) Vinyl_Chloride	1.91	62	82609	2.12	ug/l #	1
8) 1,1-Dichloroethene	2.80	96	39191m	2.67	ug/l	0
9) Carbon Disulfide	2.83	76	105869	2.24	ug/l #	57
10) Iodomethane	2.95	142	65270m	2.57	ug/l	0
12) trans-1,2-Dichloroethene	3.51	96	48771m	2.25	ug/l	0
14) Methy-tert-butylether(MTBE)	3.66	73	163615	2.29	ug/l #	61
15) 1,1-Dichloroethane	4.25	63	97538m	2.37	ug/l	0
19) 2,2-Dichloropropane	5.19	77	156780m	2.08	ug/l	61
21) Chloroform	5.45	83	214785	2.25	ug/l #	54
24) 1,1,1-Trichloroethane	5.75	97	209751	2.22	ug/l	96
27) Benzene	6.35	78	486002	2.31	ug/l	100
28) 1,2-Dichloroethane	6.70	62	195436	2.25	ug/l #	73
29) Trichloroethene	7.27	95	187325	2.76	ug/l	85
30) Dibromomethane	7.93	93	97178	2.19	ug/l	95
31) 1,2-Dichloropropane	8.10	63	152958	2.42	ug/l #	71
32) Bromodichloromethane	8.21	83	230403	2.20	ug/l #	94
33) 2-Chloroethylvinylether	9.58	63	65801m	2.51	ug/l	84
34) cis-1,3-Dichloropropene	9.21	75	302350	2.37	ug/l	95
36) Toluene	9.58	92	493623	2.59	ug/l	94
37) Tetrachloroethene	10.15	164	230436	2.07	ug/l	99
38) 4-Methyl-2-pentanone	10.25	100	78739	-36.27	ug/l	96
39) trans-1,3-Dichloropropene	10.26	75	268552	2.33	ug/l	98
40) 1,1,2-Trichloroethane	10.49	83	125001	2.29	ug/l	97
41) Ethyl_methacrylate	10.57	69	110338	-2.40	ug/l #	65
42) Dibromochloromethane	10.75	129	220169	2.16	ug/l	98
43) 1,3-Dichloropropane	10.91	76	316764	2.44	ug/l	98
44) 1,2-Dibromoethane	11.09	107	186163	2.23	ug/l #	94

(#)= qualifier out of range (m)= manual integration

V0116002.D VOL.M

Sat Jan 24 14:39:06 2009

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V011609\V0116002.D

Vial: 2

Acq On : 16 Jan 09 4:36 pm

Operator: Stan Hunnicutt

Sample : VOC std 2ug/L

Inst : GC/MS Ins

Misc : VOL196 1ul

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Jan 17 22:57 19109

Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Sat Jan 17 22:43:29 2009

Response via : Initial Calibration

DataAcq Meth : VOL

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45) 2-Hexanone	11.55	43	469247m	-16.06	ug/l	97
47) Chlorobenzene	11.93	112	568427	2.15	ug/l #	84
48) Ethylbenzene	12.01	91	955080	2.41	ug/l	98
49) 1,1,1,2-Tetrachloroethane	12.05	131	242365	2.33	ug/l #	89
50) Xylene,m+p	12.25	106	870361	5.48	ug/l	77
51) Xylene,o	12.92	106	422283	2.37	ug/l	81
52) Styrene	13.01	104	680123	2.47	ug/l #	83
53) Bromoform	13.01	173	164099	2.10	ug/l	99
54) Isopropylbenzene	13.43	105	1042579	2.35	ug/l	100
56) Bromobenzene	14.00	156	285488	2.15	ug/l	99
57) n-Propylbenzene	14.09	91	1214931	2.55	ug/l	100
58) 1,1,2,2-Tetrachloroethane	14.22	83	233431	2.35	ug/l #	88
59) 2-Chlorotoluene	14.31	91	665387	2.39	ug/l	97
60) 1,3,5-Trimethylbenzene	14.43	105	819017	2.50	ug/l	93
62) trans-1,4-Dichloro-2-buten	14.51	53	68426	-5.91	ug/l #	68
63) 4-Chlorotoluene	14.59	91	701559	2.48	ug/l	96
64) tert-Butylbenzene	14.93	119	981081	2.68	ug/l #	86
65) 1,2,4-Trimethylbenzene	15.05	105	868886	2.55	ug/l	93
66) sec-Butylbenzene	15.22	105	1257605	2.58	ug/l	97
67) 4-Isopropyltoluene	15.47	119	1046441	2.49	ug/l #	95
68) 1,3-Dichlorobenzene	15.53	146	579123	2.48	ug/l	97
70) 1,4-Dichlorobenzene	15.68	146	568357m	2.18	ug/l	97
71) n-Butylbenzene	16.16	91	828984	2.06	ug/l	98
72) 1,2-Dichlorobenzene	16.37	146	521312	2.05	ug/l	98
76) Naphthalene	19.43	128	855889	4.57	ug/l	100

(#) = qualifier out of range (m) = manual integration

V0116002.D VOL.M Sat Jan 24 14:39:07 2009

Quantitation Report

Data File : C:\HPCHEM\2\DATA\V011609\V0116002.D

Vial: 2

Acq On : 16 Jan 09 4:36 pm

Operator: Stan Hunnicutt

Sample : VOC std 2ug/L

Inst : GC/MS Ins

```
Misc      : VOL196  1u1
```

Multiplr: 1.00

MS Integration Params: events.e

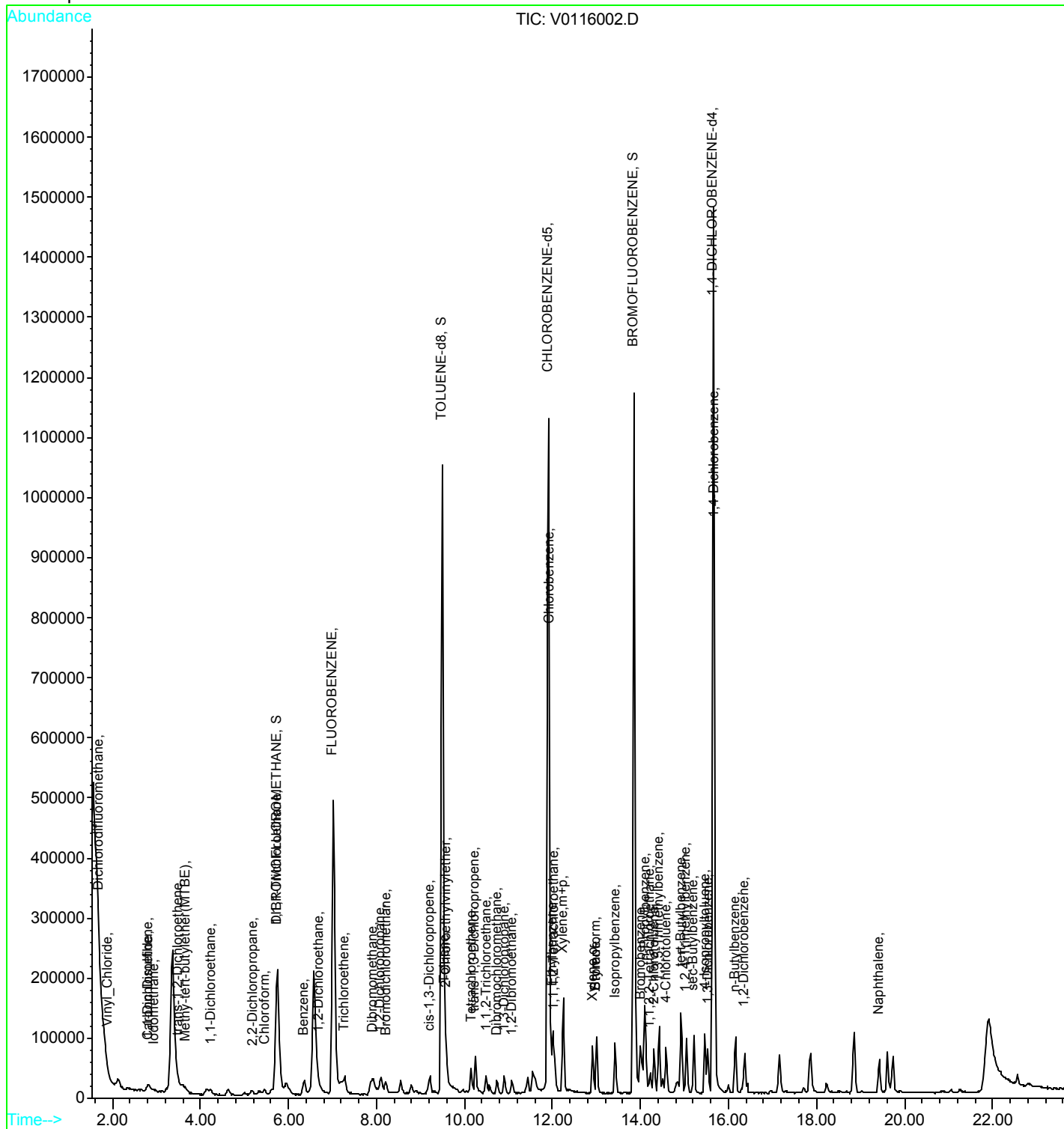
Quant Results File: VOL.RES

Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Sat Jan 17 23:14:11 2009

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V011609\V0116003.D

Vial: 3

Acq On : 16 Jan 09 5:06 pm

Operator: Stan Hunnicutt

Sample : VOC std 5ug/L

Inst : GC/MS Ins

Misc : VOL196 2.5ul

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Jan 17 22:51 19109

Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Sat Jan 17 22:43:29 2009

Response via : Initial Calibration

DataAcq Meth : VOL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	7.03	96	10851879	50.00	ug/l	0.00
46) CHLOROBENZENE-d5	11.91	117	12326198	50.00	ug/l	-0.03
69) 1,4-DICHLOROBENZENE-d4	15.67	152	7930749	50.00	ug/l	-0.03

System Monitoring Compounds

23) DIBROMOFLUOROMETHANE	5.75	113	3198526	50.93	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	101.86%	
35) TOLUENE-d8	9.50	98	13311994	50.30	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	100.60%	
55) BROMOFLUOROBENZENE	13.86	95	6342646	47.86	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	95.72%	

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.70	85	463689	5.25	ug/l	97
3) Chloromethane	1.87	50	273676	12.54	ug/l #	43
4) Vinyl_Chloride	1.91	62	198862	4.98	ug/l #	1
5) Bromomethane	2.16	94	87177m	5.23	ug/l	90
6) Chloroethane	2.23	64	62083m	5.43	ug/l	44
7) Trichlorofluoromethane	2.35	101	114524m	7.58	ug/l	41
8) 1,1-Dichloroethene	2.80	96	90101	6.25	ug/l #	76
9) Carbon Disulfide	2.83	76	298054	6.48	ug/l #	57
10) Iodomethane	2.93	142	164342	6.68	ug/l #	28
12) trans-1,2-Dichloroethene	3.52	96	118861	5.44	ug/l #	71
13) n-Hexane	3.59	57	176907m	6.33	ug/l	48
14) Methy-tert-butylether(MTBE)	3.66	73	382201	5.29	ug/l #	91
15) 1,1-Dichloroethane	4.26	63	207120	4.91	ug/l #	50
16) Acrylonitrile	4.37	53	51358m	6.78	ug/l	24
17) Vinyl_Acetate	4.64	43	281034	6.68	ug/l	100
18) cis-1,2-Dichloroethene	5.01	96	140170m	3.53	ug/l	61
19) 2,2-Dichloropropane	5.18	77	372077	4.80	ug/l #	61
20) Bromochloromethane	5.34	128	136628	4.85	ug/l #	80
21) Chloroform	5.46	83	438728	4.41	ug/l	86
22) Carbon_Tetrachloride	5.64	117	426182	5.05	ug/l #	80
24) 1,1,1-Trichloroethane	5.76	97	499735	5.22	ug/l	98
25) 2-Butanone	6.05	72	99997	16.78	ug/l #	54
26) 1,1-Dichloropropene	5.96	75	441678	5.46	ug/l	99
27) Benzene	6.36	78	1165461	5.52	ug/l	100
28) 1,2-Dichloroethane	6.70	62	480260	5.49	ug/l #	73
29) Trichloroethene	7.28	95	405387	6.06	ug/l	88
30) Dibromomethane	7.93	93	226894	5.01	ug/l	93
31) 1,2-Dichloropropane	8.11	63	357447	5.67	ug/l #	71

(#)= qualifier out of range (m)= manual integration

V0116003.D VOL.M Sat Jan 24 14:39:30 2009

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V011609\V0116003.D

Vial: 3

Acq On : 16 Jan 09 5:06 pm

Operator: Stan Hunnicutt

Sample : VOC std 5ug/L

Inst : GC/MS Ins

Misc : VOL196 2.5ul

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Jan 17 22:51 19109

Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Sat Jan 17 22:43:29 2009

Response via : Initial Calibration

DataAcq Meth : VOL

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
32) Bromodichloromethane	8.22	83	558626	5.28	ug/l #	94
33) 2-Chloroethylvinylether	9.58	63	138184	5.19	ug/l #	91
34) cis-1,3-Dichloropropene	9.22	75	722312	5.67	ug/l	96
36) Toluene	9.58	92	1135784	6.04	ug/l	95
37) Tetrachloroethene	10.16	164	575927	5.07	ug/l	98
38) 4-Methyl-2-pentanone	10.25	100	226091	-33.79	ug/l	87
39) trans-1,3-Dichloropropene	10.26	75	662178	5.76	ug/l	97
40) 1,1,2-Trichloroethane	10.50	83	325913	6.05	ug/l	96
42) Dibromochloromethane	10.75	129	574181	5.64	ug/l	99
43) 1,3-Dichloropropane	10.91	76	779047	6.09	ug/l	98
44) 1,2-Dibromoethane	11.09	107	478787	5.75	ug/l #	96
45) 2-Hexanone	11.56	43	1050072	-10.23	ug/l	94
47) Chlorobenzene	11.94	112	1393898	5.39	ug/l	95
48) Ethylbenzene	12.01	91	2252473	5.89	ug/l	97
49) 1,1,1,2-Tetrachloroethane	12.05	131	565149	5.57	ug/l #	90
50) Xylene,m+p	12.25	106	1997172	13.35	ug/l	77
51) Xylene,o	12.92	106	987601	5.72	ug/l	90
52) Styrene	13.01	104	1591765	6.01	ug/l #	85
53) Bromoform	13.01	173	452844	6.02	ug/l	98
54) Isopropylbenzene	13.43	105	2506410	5.85	ug/l	98
56) Bromobenzene	14.00	156	718841	5.54	ug/l	97
57) n-Propylbenzene	14.10	91	2854602	6.29	ug/l	99
58) 1,1,2,2-Tetrachloroethane	14.23	83	598603	6.33	ug/l	100
59) 2-Chlorotoluene	14.32	91	1587676	5.91	ug/l	96
60) 1,3,5-Trimethylbenzene	14.43	105	1991668	6.42	ug/l	92
61) 1,2,3-Trichloropropane	14.59	75	72518m	7.37	ug/l	100
62) trans-1,4-Dichloro-2-buten	14.51	53	167117	-4.23	ug/l	86
63) 4-Chlorotoluene	14.59	91	1626997	5.96	ug/l	96
64) tert-Butylbenzene	14.93	119	2242545	6.48	ug/l #	88
65) 1,2,4-Trimethylbenzene	15.05	105	2058026	6.34	ug/l	96
66) sec-Butylbenzene	15.22	105	2948054	6.35	ug/l	98
67) 4-Isopropyltoluene	15.47	119	2501790	6.24	ug/l	96
68) 1,3-Dichlorobenzene	15.54	146	1390775	6.26	ug/l	98
70) 1,4-Dichlorobenzene	15.69	146	1376380m	5.29	ug/l	99
71) n-Butylbenzene	16.16	91	2049356	5.09	ug/l	100
72) 1,2-Dichlorobenzene	16.37	146	1307922	5.13	ug/l	98
73) 1,2-Dibromo-3-chloropropan	17.71	75	104689	4.89	ug/l	95
74) Hexachlorobutadiene	18.84	225	496371	4.51	ug/l	98
75) 1,2,4-Trichlorobenzene	18.87	180	1042728	4.83	ug/l	99
76) Naphthalene	19.43	128	2218365	8.37	ug/l	100
77) 1,2,3-Trichlorobenzene	19.74	180	961683	4.64	ug/l	99

(#)= qualifier out of range (m)= manual integration

V0116003.D VOL.M

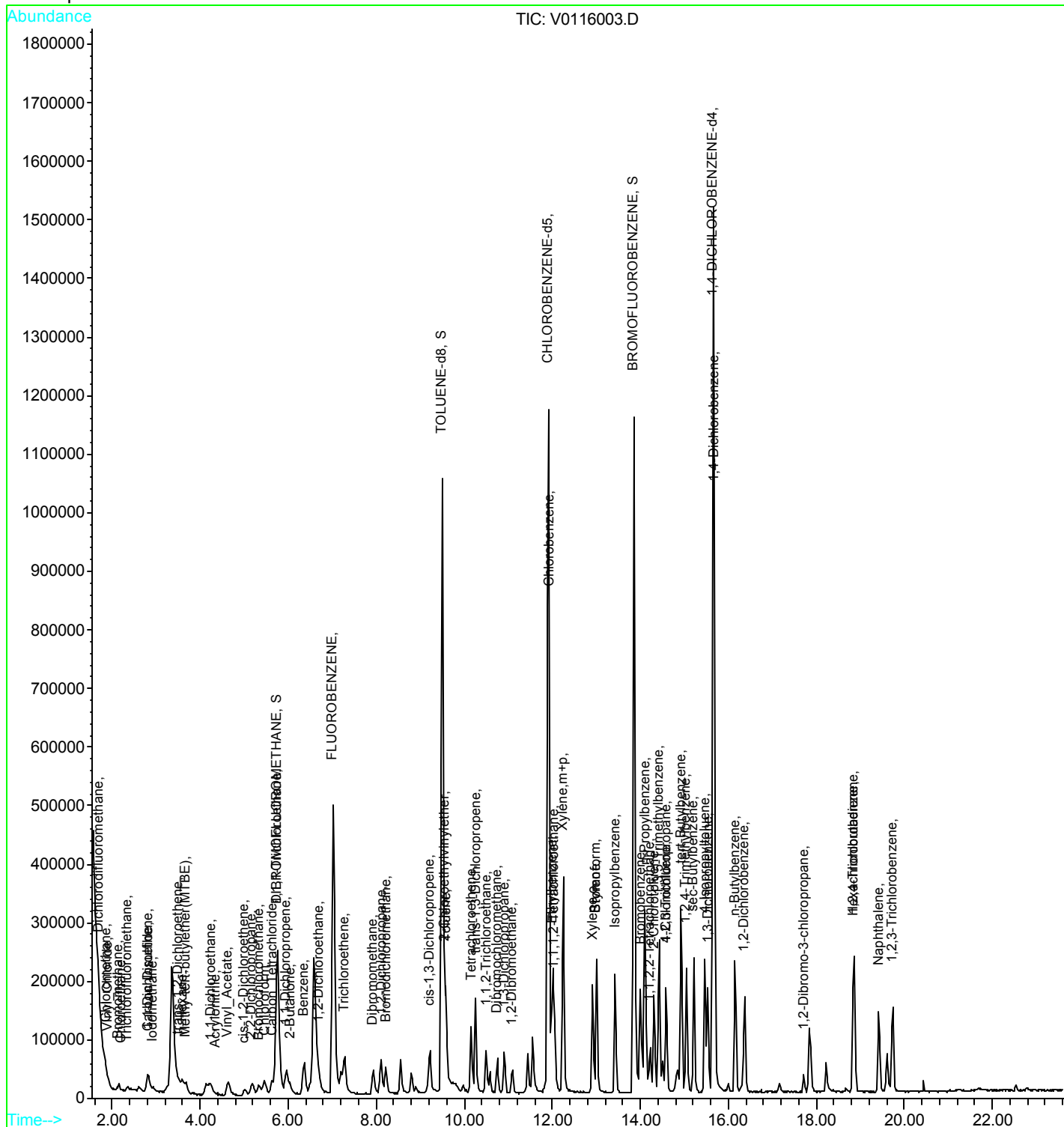
Sat Jan 24 14:39:31 2009

Vial: 3
Operator: Stan Hunnicutt
Inst : GC/MS Ins
Multiplr: 1.00

Quant Time: Jan 17 22:51 19109

Quant Results File: VOL.RES

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V011609\V0116004.D

Vial: 4

Acq On : 16 Jan 09 5:36 pm

Operator: Stan Hunnicutt

Sample : VOC std 10ug/L

Inst : GC/MS Ins

Misc : VOL196 5ul

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Jan 17 22:48 19109

Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Sat Jan 17 22:43:29 2009

Response via : Initial Calibration

DataAcq Meth : VOL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	7.03	96	10998837	50.00	ug/l	0.00
46) CHLOROBENZENE-d5	11.92	117	12458574	50.00	ug/l	-0.02
69) 1,4-DICHLOROBENZENE-d4	15.67	152	7818290	50.00	ug/l	-0.03

System Monitoring Compounds

23) DIBROMOFLUOROMETHANE	5.76	113	3351601	53.36	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	106.72%	
35) TOLUENE-d8	9.51	98	13495064	50.39	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	100.78%	
55) BROMOFLUOROBENZENE	13.86	95	6412307	47.37	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	94.74%	

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.69	85	942574	10.66 ug/l	98
3) Chloromethane	1.86	50	494074	19.19 ug/l	95
4) Vinyl_Chloride	1.91	62	374307	9.08 ug/l #	72
5) Bromomethane	2.15	94	126699	7.29 ug/l	98
6) Chloroethane	2.24	64	82356	9.19 ug/l #	44
7) Trichlorofluoromethane	2.34	101	266506	21.37 ug/l #	85
8) 1,1-Dichloroethene	2.79	96	176196	12.73 ug/l	91
9) Carbon Disulfide	2.83	76	498712	10.88 ug/l #	89
10) Iodomethane	2.93	142	314734	13.51 ug/l #	91
12) trans-1,2-Dichloroethene	3.52	96	240142	11.07 ug/l	92
13) n-Hexane	3.60	57	333204	12.30 ug/l	92
14) Methy-tert-butylether(MTBE)	3.68	73	773453	10.72 ug/l #	89
15) 1,1-Dichloroethane	4.26	63	414957	9.62 ug/l #	83
16) Acrylonitrile	4.38	53	101269m	14.34 ug/l	67
17) Vinyl_Acetate	4.64	43	584058	13.64 ug/l	100
18) cis-1,2-Dichloroethene	5.04	96	364986m	8.87 ug/l	23
19) 2,2-Dichloropropane	5.20	77	758351	9.57 ug/l	94
20) Bromochloromethane	5.35	128	303966	10.81 ug/l	96
21) Chloroform	5.48	83	1024537	10.20 ug/l	100
22) Carbon_Tetrachloride	5.65	117	863451	10.12 ug/l	99
24) 1,1,1-Trichloroethane	5.77	97	1055665	11.13 ug/l	96
25) 2-Butanone	6.05	72	150944m	24.98 ug/l	1
26) 1,1-Dichloropropene	5.97	75	870919	10.80 ug/l	99
27) Benzene	6.37	78	2192854	10.30 ug/l	100
28) 1,2-Dichloroethane	6.71	62	948663	10.88 ug/l #	90
29) Trichloroethene	7.29	95	759809	11.55 ug/l	97
30) Dibromomethane	7.93	93	483030	10.67 ug/l	99
31) 1,2-Dichloropropane	8.12	63	714695	11.51 ug/l	99

(#)= qualifier out of range (m)= manual integration

V0116004.D VOL.M

Sat Jan 24 14:39:50 2009

Data File : C:\HPCHEM\2\DATA\V011609\V0116004.D

Vial: 4

Acq On : 16 Jan 09 5:36 pm

Operator: Stan Hunnicutt

Sample : VOC std 10ug/L

Inst : GC/MS Ins

Misc : VOL196 5ul

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Jan 17 22:48 19109

Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Sat Jan 17 22:43:29 2009

Response via : Initial Calibration

DataAcq Meth : VOL

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
32) Bromodichloromethane	8.23	83	1158489	11.01	ug/l	99
33) 2-Chloroethylvinylether	9.59	63	310260	11.94	ug/l #	98
34) cis-1,3-Dichloropropene	9.23	75	1343391	10.50	ug/l	94
36) Toluene	9.59	92	2117970	11.44	ug/l	95
37) Tetrachloroethene	10.16	164	1176884	10.28	ug/l	96
38) 4-Methyl-2-pentanone	10.26	100	436427	-33.34	ug/l	87
39) trans-1,3-Dichloropropene	10.27	75	1386604	12.50	ug/l	95
40) 1,1,2-Trichloroethane	10.51	83	641200	12.27	ug/l	99
41) Ethyl_methacrylate	10.59	69	568236	3.85	ug/l	96
42) Dibromochloromethane	10.75	129	1127677	11.19	ug/l	98
43) 1,3-Dichloropropane	10.92	76	1457129	11.59	ug/l	98
44) 1,2-Dibromoethane	11.10	107	951045	11.64	ug/l	98
47) Chlorobenzene	11.94	112	2701024	10.41	ug/l	98
48) Ethylbenzene	12.02	91	4359725	11.65	ug/l	97
49) 1,1,1,2-Tetrachloroethane	12.06	131	1128717	11.30	ug/l	95
50) Xylene,m+p	12.26	106	3814437	27.00	ug/l	77
51) Xylene,o	12.93	106	1933840	11.39	ug/l	89
52) Styrene	13.02	104	3184945	12.49	ug/l #	83
53) Bromoform	13.02	173	854268	11.60	ug/l	98
54) Isopropylbenzene	13.44	105	4818344	11.44	ug/l	99
56) Bromobenzene	14.01	156	1423065	11.09	ug/l	99
57) n-Propylbenzene	14.10	91	5518783	12.67	ug/l	100
58) 1,1,2,2-Tetrachloroethane	14.23	83	1127163	12.34	ug/l	100
59) 2-Chlorotoluene	14.32	91	3132466	12.01	ug/l	97
60) 1,3,5-Trimethylbenzene	14.44	105	3769915	12.65	ug/l	91
61) 1,2,3-Trichloropropane	14.60	75	110629	11.45	ug/l	100
63) 4-Chlorotoluene	14.60	91	3218852	12.18	ug/l	97
64) tert-Butylbenzene	14.94	119	4351924	13.24	ug/l	89
65) 1,2,4-Trimethylbenzene	15.06	105	3917231	12.55	ug/l	97
66) sec-Butylbenzene	15.23	105	5744959	12.98	ug/l	98
67) 4-Isopropyltoluene	15.48	119	4861917	12.62	ug/l	96
68) 1,3-Dichlorobenzene	15.54	146	2663122	12.43	ug/l	98
70) 1,4-Dichlorobenzene	15.70	146	2657366	10.46	ug/l	97
71) n-Butylbenzene	16.16	91	3978569	10.02	ug/l	98
72) 1,2-Dichlorobenzene	16.38	146	2523653	10.05	ug/l	98
73) 1,2-Dibromo-3-chloropropan	17.72	75	194848	9.06	ug/l	99
74) Hexachlorobutadiene	18.84	225	985096	8.87	ug/l	99
75) 1,2,4-Trichlorobenzene	18.87	180	2045416	9.51	ug/l	99
76) Naphthalene	19.43	128	4145076	14.02	ug/l	100
77) 1,2,3-Trichlorobenzene	19.74	180	1854288	8.88	ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\2\DATA\V011609\V0116004.D

Vial: 4

Acq On : 16 Jan 09 5:36 pm

Operator: Stan Hunnicutt

Sample : VOC std 10ug/L

Inst : GC/MS Ins

Misc : VOL196 5ul

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Jan 17 22:48 19109

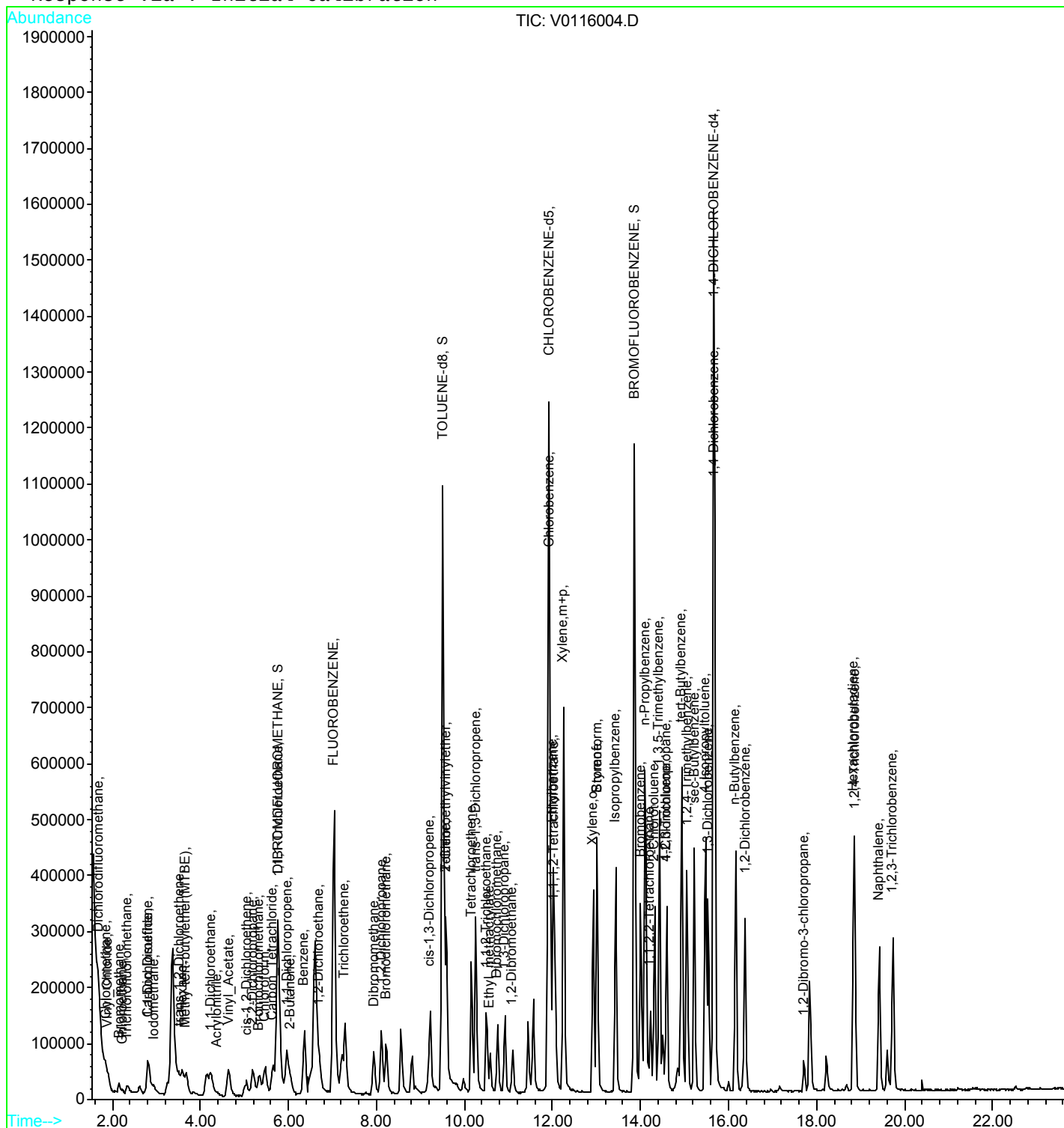
Quant Results File: VOL.RES

Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Sat Jan 17 23:14:11 2009

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V011609\V0116005.D

Vial: 5

Acq On : 16 Jan 09 6:06 pm

Operator: Stan Hunnicutt

Sample : VOC std 25ug/L

Inst : GC/MS Ins

Misc : VOL196 12.5ul

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Jan 17 22:45 19109

Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Sat Jan 17 22:43:29 2009

Response via : Initial Calibration

DataAcq Meth : VOL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	7.04	96	10793636	50.00	ug/l	0.00
46) CHLOROBENZENE-d5	11.92	117	11577844	50.00	ug/l	-0.01
69) 1,4-DICHLOROBENZENE-d4	15.68	152	7051381	50.00	ug/l	-0.02

System Monitoring Compounds

23) DIBROMOFLUOROMETHANE	5.77	113	3360670	56.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.44%	
35) TOLUENE-d8	9.52	98	13117822	49.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.76%	
55) BROMOFLUOROBENZENE	13.87	95	6089880	47.91	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	95.82%	

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.70	85	2165021	24.94 ug/l	99
3) Chloromethane	1.86	50	1300037	37.14 ug/l	100
4) Vinyl_Chloride	1.92	62	932716	22.49 ug/l	99
5) Bromomethane	2.16	94	325105	23.16 ug/l	98
6) Chloroethane	2.24	64	152227	23.95 ug/l	96
7) Trichlorofluoromethane	2.33	101	400229	36.45 ug/l #	91
8) 1,1-Dichloroethene	2.80	96	380614	29.19 ug/l	93
9) Carbon Disulfide	2.82	76	1234099	28.37 ug/l	95
10) Iodomethane	2.93	142	664084	30.71 ug/l #	97
11) Acetone	3.47	58	72134	46.36 ug/l	75
12) trans-1,2-Dichloroethene	3.52	96	552429	26.27 ug/l	96
13) n-Hexane	3.59	57	645417	24.05 ug/l #	80
14) Methy-tert-butylether(MTBE)	3.68	73	1837845	26.28 ug/l	93
15) 1,1-Dichloroethane	4.26	63	1033987	24.25 ug/l	97
16) Acrylonitrile	4.38	53	176045	25.53 ug/l #	59
17) Vinyl_Acetate	4.65	43	1345779	31.25 ug/l	100
18) cis-1,2-Dichloroethene	5.03	96	996098	24.55 ug/l	98
19) 2,2-Dichloropropane	5.20	77	1963524	25.32 ug/l	99
20) Bromochloromethane	5.36	128	718353	26.39 ug/l	93
21) Chloroform	5.47	83	2425994	24.47 ug/l	95
22) Carbon_Tetrachloride	5.65	117	2152544	25.94 ug/l	98
24) 1,1,1-Trichloroethane	5.78	97	2368074	25.61 ug/l	97
25) 2-Butanone	6.05	72	431098	76.90 ug/l	65
26) 1,1-Dichloropropene	5.97	75	2075921	26.67 ug/l	96
27) Benzene	6.37	78	5808831	28.89 ug/l	100
28) 1,2-Dichloroethane	6.71	62	2156226	25.27 ug/l #	89
29) Trichloroethene	7.29	95	1758175	28.06 ug/l	95
30) Dibromomethane	7.95	93	1179108	27.11 ug/l	98

(#)= qualifier out of range (m)= manual integration

V0116005.D VOL.M

Sat Jan 24 14:40:12 2009

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V011609\V0116005.D

Vial: 5

Acq On : 16 Jan 09 6:06 pm

Operator: Stan Hunnicutt

Sample : VOC std 25ug/L

Inst : GC/MS Ins

Misc : VOL196 12.5ul

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Jan 17 22:45 19109

Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Sat Jan 17 22:43:29 2009

Response via : Initial Calibration

DataAcq Meth : VOL

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
31) 1,2-Dichloropropane	8.12	63	1561833	25.86	ug/l	99
32) Bromodichloromethane	8.23	83	2727465	26.94	ug/l	99
33) 2-Chloroethylvinylether	9.59	63	678512	27.19	ug/l #	96
34) cis-1,3-Dichloropropene	9.23	75	3360252	27.40	ug/l	97
36) Toluene	9.59	92	5166501	29.79	ug/l	99
37) Tetrachloroethene	10.17	164	2978251	27.04	ug/l	98
38) 4-Methyl-2-pentanone	10.26	100	981306	13.73	ug/l	95
39) trans-1,3-Dichloropropene	10.27	75	3181935	30.96	ug/l	95
40) 1,1,2-Trichloroethane	10.51	83	1451732	29.62	ug/l	95
41) Ethyl_methacrylate	10.59	69	1396791	22.49	ug/l	98
42) Dibromochloromethane	10.76	129	2728597	28.57	ug/l	99
43) 1,3-Dichloropropane	10.93	76	3468267	29.32	ug/l	98
44) 1,2-Dibromoethane	11.10	107	2252866	29.31	ug/l	99
45) 2-Hexanone	11.57	43	4256385	46.01	ug/l	99
47) Chlorobenzene	11.95	112	6527945	27.84	ug/l	98
48) Ethylbenzene	12.02	91	10090223	30.67	ug/l	97
49) 1,1,1,2-Tetrachloroethane	12.07	131	2579096	28.86	ug/l	95
50) Xylene,m+p	12.26	106	8387529	70.40	ug/l	83
51) Xylene,o	12.93	106	4452676	29.49	ug/l	91
52) Styrene	13.02	104	7230222	32.93	ug/l #	85
53) Bromoform	13.02	173	1996746	30.91	ug/l	99
54) Isopropylbenzene	13.44	105	11245976	30.24	ug/l	99
56) Bromobenzene	14.02	156	3295291	28.63	ug/l	97
57) n-Propylbenzene	14.11	91	12522651	33.59	ug/l	100
58) 1,1,2,2-Tetrachloroethane	14.24	83	2595571	33.03	ug/l	99
59) 2-Chlorotoluene	14.33	91	7103659	31.09	ug/l	97
60) 1,3,5-Trimethylbenzene	14.44	105	8638723	34.01	ug/l	93
61) 1,2,3-Trichloropropane	14.60	75	295147	36.74	ug/l	100
62) trans-1,4-Dichloro-2-buten	14.52	53	692750	10.51	ug/l	90
63) 4-Chlorotoluene	14.60	91	7365456	32.13	ug/l	94
64) tert-Butylbenzene	14.94	119	9596593	34.35	ug/l	91
65) 1,2,4-Trimethylbenzene	15.06	105	8801534	32.67	ug/l	96
66) sec-Butylbenzene	15.23	105	12872813	34.18	ug/l	99
67) 4-Isopropyltoluene	15.48	119	10964102	33.11	ug/l	96
68) 1,3-Dichlorobenzene	15.55	146	6072912	32.92	ug/l	98
70) 1,4-Dichlorobenzene	15.70	146	5929519	26.18	ug/l	99
71) n-Butylbenzene	16.17	91	9312895	26.37	ug/l	99
72) 1,2-Dichlorobenzene	16.38	146	5645597	24.90	ug/l	98
73) 1,2-Dibromo-3-chloropropan	17.72	75	451846	22.78	ug/l	99
74) Hexachlorobutadiene	18.85	225	2313915	22.51	ug/l	99
75) 1,2,4-Trichlorobenzene	18.88	180	4704560	24.02	ug/l	98

(#)= qualifier out of range (m)= manual integration

V0116005.D VOL.M

Sat Jan 24 14:40:13 2009

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V011609\V0116005.D Vial: 5
 Acq On : 16 Jan 09 6:06 pm Operator: Stan Hunnicutt
 Sample : VOC std 25ug/L Inst : GC/MS Ins
 Misc : VOL196 12.5ul Multiplr: 1.00
 MS Integration Params: events.e
 Quant Time: Jan 17 22:45 19109 Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)
 Title : GCMS VOC Method 8260
 Last Update : Sat Jan 17 22:43:29 2009
 Response via : Initial Calibration
 DataAcq Meth : VOL

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
76) Naphthalene	19.43	128	9446084	29.29 ug/l	100
77) 1,2,3-Trichlorobenzene	19.74	180	4391503	22.79 ug/l	99

Quantitation Report

Data File : C:\HPCHEM\2\DATA\V011609\V0116005.D

Acq On : 16 Jan 09 6:06 pm

Sample : VOC std 25ug/L

Misc : VOL196 12.5ul

MS Integration Params: events.e

Quant Time: Jan 17 22:45 19109

Vial: 5

Operator: Stan Hunnicutt

Inst : GC/MS Ins

Multiplr: 1.00

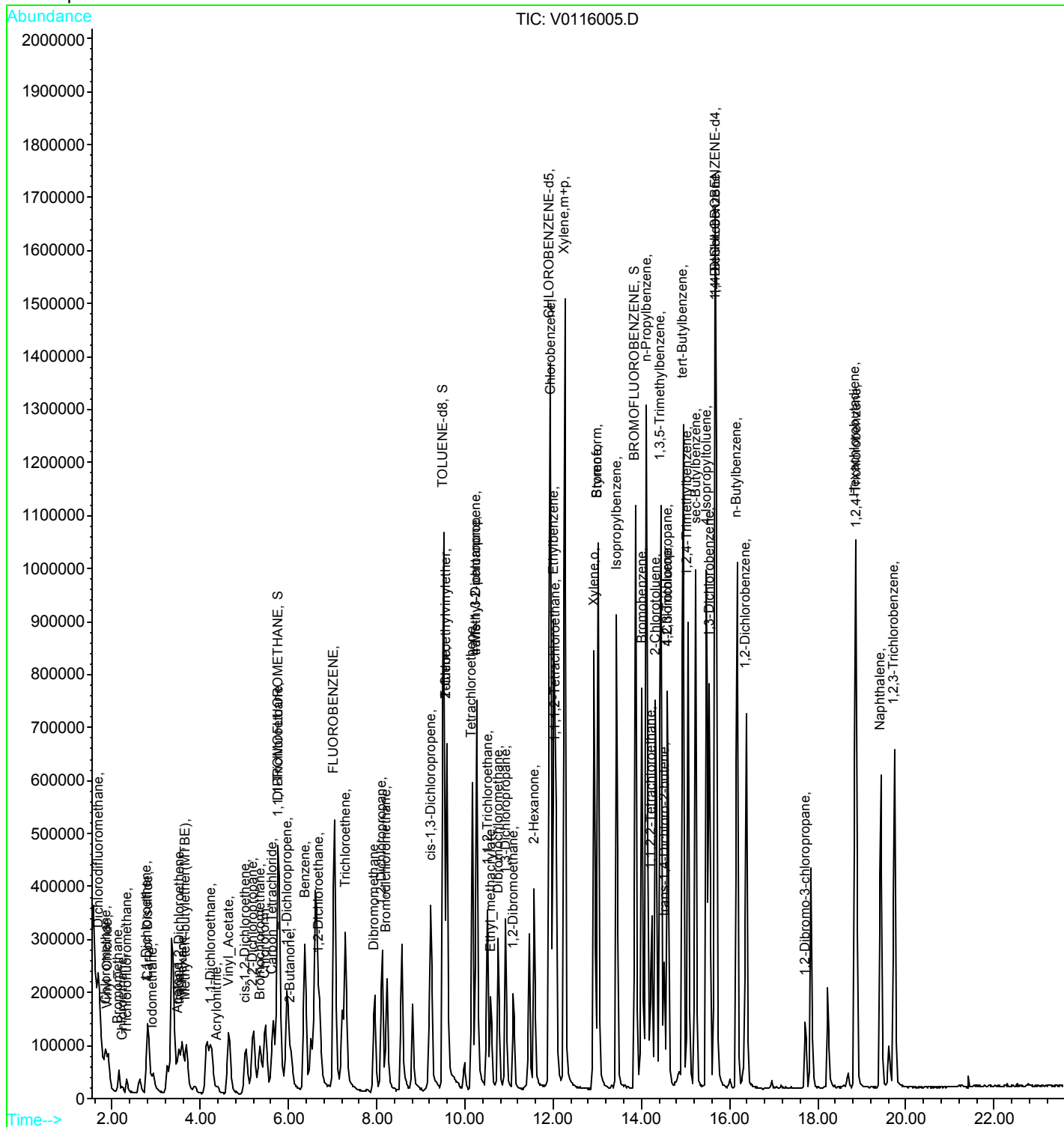
Quant Results File: VOL.RES

Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Sat Jan 17 23:14:11 2009

Response via : Initial Calibration



Data File : C:\HPCHEM\2\DATA\V011609\V0116006.D

Vial: 6

Acq On : 16 Jan 09 6:35 pm

Operator: Stan Hunnicutt

Sample : VOC std 50ug/L

Inst : GC/MS Ins

Misc : VOL196 25ul

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Jan 18 16:59 19109

Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Sat Jan 17 23:14:11 2009

Response via : Initial Calibration

DataAcq Meth : VOL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	7.05	96	11268681	50.00	ug/l	0.00
46) CHLOROBENZENE-d5	11.93	117	11637786	50.00	ug/l	0.00
69) 1,4-DICHLOROBENZENE-d4	15.68	152	6619129	50.00	ug/l	-0.02

System Monitoring Compounds

23) DIBROMOFLUOROMETHANE	5.78	113	3342505	49.83	ug/l	0.01
Spiked Amount	50.000		Recovery	=	99.66%	
35) TOLUENE-d8	9.52	98	13622228	49.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.72%	
55) BROMOFLUOROBENZENE	13.88	95	6138542	50.63	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	101.26%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.70	85	4397287	46.93	ug/l	96
3) Chloromethane	1.86	50	2445023	45.45	ug/l	98
4) Vinyl_Chloride	1.92	62	1957853	48.17	ug/l	100
5) Bromomethane	2.15	94	690787	48.59	ug/l	97
6) Chloroethane	2.23	64	290686	51.84	ug/l	97
7) Trichlorofluoromethane	2.32	101	593449	46.13	ug/l #	95
8) 1,1-Dichloroethene	2.78	96	793693	46.36	ug/l	89
9) Carbon Disulfide	2.80	76	2553219	48.53	ug/l	94
10) Iodomethane	2.92	142	1262868	42.72	ug/l	98
11) Acetone	3.47	58	178911	135.56	ug/l #	26
12) trans-1,2-Dichloroethene	3.52	96	1088939	46.33	ug/l	97
13) n-Hexane	3.59	57	1414206	46.63	ug/l #	84
14) Methy-tert-butylether(MTBE)	3.69	73	3566328	45.93	ug/l	99
15) 1,1-Dichloroethane	4.27	63	2261801	50.51	ug/l	96
16) Acrylonitrile	4.40	53	325110	46.71	ug/l #	81
17) Vinyl_Acetate	4.65	43	2740882	49.16	ug/l	100
18) cis-1,2-Dichloroethene	5.04	96	2295399	54.33	ug/l	92
19) 2,2-Dichloropropane	5.21	77	3971806	49.54	ug/l	97
20) Bromochloromethane	5.36	128	1435777	49.00	ug/l	93
21) Chloroform	5.49	83	5245952	50.86	ug/l	99
22) Carbon_Tetrachloride	5.66	117	4282297	49.09	ug/l	98
24) 1,1,1-Trichloroethane	5.78	97	4919633	47.88	ug/l	98
25) 2-Butanone	6.07	72	892433	130.32	ug/l #	61
26) 1,1-Dichloropropene	5.98	75	4379740	50.64	ug/l	99
27) Benzene	6.38	78	11422129	48.69	ug/l	100
28) 1,2-Dichloroethane	6.72	62	4762228	49.94	ug/l	95
29) Trichloroethene	7.30	95	3387897	49.56	ug/l	93
30) Dibromomethane	7.96	93	2343677	48.69	ug/l	97

(#)= qualifier out of range (m)= manual integration

V0116006.D VOL.M

Sat Jan 24 14:40:31 2009

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V011609\V0116006.D

Vial: 6

Acq On : 16 Jan 09 6:35 pm

Operator: Stan Hunnicutt

Sample : VOC std 50ug/L

Inst : GC/MS Ins

Misc : VOL196 25ul

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Jan 18 16:59 19109

Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Sat Jan 17 23:14:11 2009

Response via : Initial Calibration

DataAcq Meth : VOL

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
31) 1,2-Dichloropropane	8.13	63	3391377	47.85 ug/l	99
32) Bromodichloromethane	8.24	83	5424595	47.76 ug/l	99
33) 2-Chloroethylvinylether	9.60	63	1366701	46.46 ug/l #	98
34) cis-1,3-Dichloropropene	9.24	75	6801762	47.93 ug/l	96
36) Toluene	9.60	92	9954660	45.57 ug/l	99
37) Tetrachloroethene	10.18	164	6092799	50.42 ug/l	99
38) 4-Methyl-2-pentanone	10.27	100	1741836	104.05 ug/l	95
39) trans-1,3-Dichloropropene	10.28	75	5840695	45.01 ug/l	97
40) 1,1,2-Trichloroethane	10.52	83	2757570	45.08 ug/l	95
41) Ethyl_methacrylate	10.60	69	2686581	48.41 ug/l	98
42) Dibromochloromethane	10.77	129	5216019	46.81 ug/l	100
43) 1,3-Dichloropropane	10.93	76	6704332	45.62 ug/l	99
44) 1,2-Dibromoethane	11.11	107	4264976	46.13 ug/l	100
45) 2-Hexanone	11.58	43	7783000	97.57 ug/l	99
47) Chlorobenzene	11.96	112	12702279	49.61 ug/l	96
48) Ethylbenzene	12.03	91	18694721	46.82 ug/l	97
49) 1,1,1,2-Tetrachloroethane	12.07	131	4871091	47.30 ug/l	99
50) Xylene,m+p	12.27	106	15029782	89.31 ug/l	81
51) Xylene,o	12.94	106	8466577	47.56 ug/l	90
52) Styrene	13.03	104	13101712	46.36 ug/l	86
53) Bromoform	13.03	173	3620858	47.17 ug/l	98
54) Isopropylbenzene	13.45	105	21157498	47.62 ug/l	100
56) Bromobenzene	14.02	156	6241916	48.28 ug/l	98
57) n-Propylbenzene	14.11	91	22500087	45.64 ug/l	99
58) 1,1,2,2-Tetrachloroethane	14.24	83	4523832	45.10 ug/l	99
59) 2-Chlorotoluene	14.34	91	13062883	46.58 ug/l	98
60) 1,3,5-Trimethylbenzene	14.45	105	15371067	45.51 ug/l	92
61) 1,2,3-Trichloropropane	14.61	75	510173	47.44 ug/l	100
62) trans-1,4-Dichloro-2-buten	14.53	53	1258254	43.43 ug/l	91
63) 4-Chlorotoluene	14.61	91	13374975	46.33 ug/l	96
64) tert-Butylbenzene	14.95	119	17167912	44.73 ug/l	91
65) 1,2,4-Trimethylbenzene	15.07	105	16061585	45.66 ug/l	98
66) sec-Butylbenzene	15.24	105	23157306	45.62 ug/l	99
67) 4-Isopropyltoluene	15.49	119	20022989	46.31 ug/l	96
68) 1,3-Dichlorobenzene	15.56	146	10947382	45.81 ug/l	98
70) 1,4-Dichlorobenzene	15.71	146	11049728	48.99 ug/l	99
71) n-Butylbenzene	16.18	91	17156472	50.05 ug/l	99
72) 1,2-Dichlorobenzene	16.39	146	10649402	49.61 ug/l	99
73) 1,2-Dibromo-3-chloropropan	17.73	75	841012	50.04 ug/l	98
74) Hexachlorobutadiene	18.86	225	4439825	50.68 ug/l	99
75) 1,2,4-Trichlorobenzene	18.88	180	8966263	50.47 ug/l	99

(#)= qualifier out of range (m)= manual integration

V0116006.D VOL.M

Sat Jan 24 14:40:32 2009

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V011609\V0116006.D Vial: 6
 Acq On : 16 Jan 09 6:35 pm Operator: Stan Hunnicutt
 Sample : VOC std 50ug/L Inst : GC/MS Ins
 Misc : VOL196 25ul Multiplr: 1.00
 MS Integration Params: events.e
 Quant Time: Jan 18 16:59 19109 Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)
 Title : GCMS VOC Method 8260
 Last Update : Sat Jan 17 23:14:11 2009
 Response via : Initial Calibration
 DataAcq Meth : VOL

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
76) Naphthalene	19.44	128	17832187	49.33 ug/l	100
77) 1,2,3-Trichlorobenzene	19.75	180	8246529	50.26 ug/l	99

Quantitation Report

Data File : C:\HPCHEM\2\DATA\V011609\V0116006.D

Acq On : 16 Jan 09 6:35 pm

Sample : VOC std 50ug/L

Misc : VOL196 25ul

MS Integration Params: events.e

Quant Time: Jan 18 16:59 19109

Vial: 6

Operator: Stan Hunnicutt

Inst : GC/MS Ins

Multiplr: 1.00

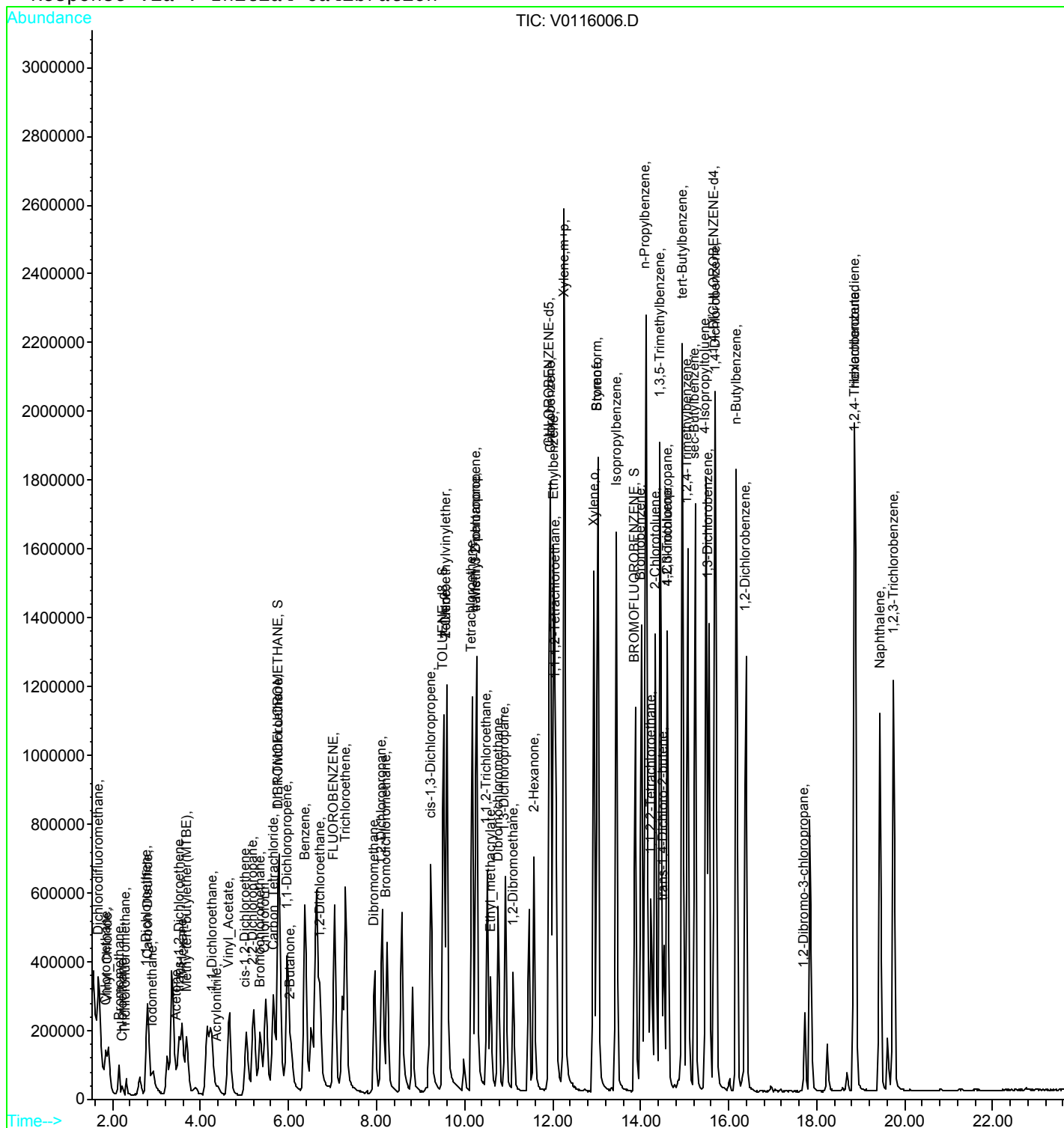
Quant Results File: VOL.RES

Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Sat Jan 17 23:14:11 2009

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V011609\V0116007.D

Vial: 7

Acq On : 16 Jan 09 7:04 pm

Operator: Stan Hunnicutt

Sample : VOC std 100ug/L

Inst : GC/MS Ins

Misc : VOL196 50ul

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Jan 17 22:41 19109

Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Sat Jan 17 22:40:41 2009

Response via : Initial Calibration

DataAcq Meth : VOL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	7.04	96	10510604	50.00	ug/l	0.00
46) CHLOROBENZENE-d5	11.93	117	10367379	50.00	ug/l	0.00
69) 1,4-DICHLOROBENZENE-d4	15.69	152	5218175	50.00	ug/l	0.00

System Monitoring Compounds

23) DIBROMOFLUOROMETHANE	5.77	113	2944531	55.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.30%	
35) TOLUENE-d8	9.52	98	12758916	49.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.54%	
55) BROMOFLUOROBENZENE	13.88	95	5576724	46.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.50%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.69	85	8057468	88.53	ug/l	100
3) Chloromethane	1.85	50	5440079	86.22	ug/l	99
4) Vinyl_Chloride	1.91	62	3943210	87.20	ug/l	100
5) Bromomethane	2.14	94	1176004	99.41	ug/l	98
6) Chloroethane	2.21	64	485068	102.37	ug/l	99
7) Trichlorofluoromethane	2.30	101	1020124	94.40	ug/l	93
8) 1,1-Dichloroethene	2.73	96	1249874	115.81	ug/l	93
9) Carbon Disulfide	2.76	76	4094088	106.33	ug/l	94
10) Iodomethane	2.89	142	2178461	122.12	ug/l	95
11) Acetone	3.48	58	310616	157.15	ug/l #	5
12) trans-1,2-Dichloroethene	3.50	96	1958693	90.98	ug/l	99
14) Methy-tert-butylether(MTBE)	3.69	73	6754464	96.18	ug/l	98
15) 1,1-Dichloroethane	4.26	63	4008573	94.85	ug/l	95
16) Acrylonitrile	4.39	53	632798	81.65	ug/l #	88
17) Vinyl_Acetate	4.65	43	4529500	86.77	ug/l	100
18) cis-1,2-Dichloroethene	5.04	96	3875880	104.87	ug/l	96
19) 2,2-Dichloropropane	5.20	77	7600125	99.37	ug/l	100
20) Bromochloromethane	5.35	128	2681367	103.38	ug/l	96
21) Chloroform	5.48	83	9566696	99.55	ug/l	99
22) Carbon_Tetrachloride	5.65	117	7988176	96.63	ug/l	100
24) 1,1,1-Trichloroethane	5.78	97	8949409	100.66	ug/l	100
25) 2-Butanone	6.06	72	1260856	269.77	ug/l	93
26) 1,1-Dichloropropene	5.97	75	7418073	103.74	ug/l	95
27) Benzene	6.37	78	19763409	111.83	ug/l	100
28) 1,2-Dichloroethane	6.72	62	8045334	100.57	ug/l	97
29) Trichloroethene	7.30	95	6274047	109.85	ug/l	98
30) Dibromomethane	7.96	93	4151253	99.30	ug/l	99
31) 1,2-Dichloropropane	8.13	63	5927069	109.99	ug/l	99

(#)= qualifier out of range (m)= manual integration

V0116007.D VOL.M

Sat Jan 24 14:41:00 2009

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V011609\V0116007.D

Vial: 7

Acq On : 16 Jan 09 7:04 pm

Operator: Stan Hunnicutt

Sample : VOC std 100ug/L

Inst : GC/MS Ins

Misc : VOL196 50ul

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Jan 17 22:41 19109

Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Sat Jan 17 22:40:41 2009

Response via : Initial Calibration

DataAcq Meth : VOL

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
32) Bromodichloromethane	8.24	83	9529598	95.94	ug/l	97
33) 2-Chloroethylvinylether	9.60	63	2373070	100.25	ug/l #	94
34) cis-1,3-Dichloropropene	9.24	75	11845258	104.95	ug/l	98
36) Toluene	9.60	92	16888694	111.07	ug/l	100
37) Tetrachloroethene	10.18	164	10858738	109.08	ug/l	98
38) 4-Methyl-2-pentanone	10.27	100	2691959	319.20	ug/l	95
39) trans-1,3-Dichloropropene	10.28	75	9960904	108.69	ug/l	97
40) 1,1,2-Trichloroethane	10.52	83	4810330	110.21	ug/l	98
41) Ethyl_methacrylate	10.60	69	4463469	104.04	ug/l	98
42) Dibromochloromethane	10.77	129	9203437	102.69	ug/l	99
43) 1,3-Dichloropropane	10.94	76	11528895	109.61	ug/l	100
44) 1,2-Dibromoethane	11.11	107	7429591	105.11	ug/l	100
45) 2-Hexanone	11.59	43	12342764	277.43	ug/l	98
47) Chlorobenzene	11.96	112	21175453	110.40	ug/l	97
48) Ethylbenzene	12.04	91	29918359	118.90	ug/l	98
49) 1,1,1,2-Tetrachloroethane	12.08	131	8107268	112.22	ug/l	100
50) Xylene,m+p	12.28	106	21366842	269.42	ug/l	88
51) Xylene,o	12.95	106	13777696	117.77	ug/l	92
52) Styrene	13.03	104	20127314	129.80	ug/l	90
53) Bromoform	13.04	173	5841660	115.47	ug/l	100
54) Isopropylbenzene	13.46	105	33706244	118.26	ug/l	100
56) Bromobenzene	14.03	156	10322403	108.90	ug/l	99
57) n-Propylbenzene	14.12	91	33829915	128.92	ug/l	99
58) 1,1,2,2-Tetrachloroethane	14.25	83	7056678	117.80	ug/l	99
59) 2-Chlorotoluene	14.34	91	20607084	117.80	ug/l	98
60) 1,3,5-Trimethylbenzene	14.46	105	23095444	130.08	ug/l	95
61) 1,2,3-Trichloropropane	14.62	75	683077	120.71	ug/l	100
62) trans-1,4-Dichloro-2-buten	14.54	53	2332717	126.71	ug/l	89
63) 4-Chlorotoluene	14.62	91	20627766	120.45	ug/l	97
64) tert-Butylbenzene	14.96	119	25279220	131.84	ug/l	94
65) 1,2,4-Trimethylbenzene	15.08	105	24352610	125.52	ug/l	97
66) sec-Butylbenzene	15.25	105	33990303	131.09	ug/l	100
67) 4-Isopropyltoluene	15.50	119	29891213	127.86	ug/l	97
68) 1,3-Dichlorobenzene	15.57	146	16730174	125.53	ug/l	99
70) 1,4-Dichlorobenzene	15.72	146	17053595	107.91	ug/l	99
71) n-Butylbenzene	16.19	91	26567554	107.23	ug/l	99
72) 1,2-Dichlorobenzene	16.40	146	16727759	99.47	ug/l	99
73) 1,2-Dibromo-3-chloropropan	17.74	75	1431001	86.94	ug/l	99
74) Hexachlorobutadiene	18.86	225	7614347	92.84	ug/l	99
75) 1,2,4-Trichlorobenzene	18.89	180	14741557	100.96	ug/l	99
76) Naphthalene	19.44	128	29729564	94.30	ug/l	100

(#)= qualifier out of range (m)= manual integration

V0116007.D VOL.M

Sat Jan 24 14:41:00 2009

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V011609\V0116007.D Vial: 7
 Acq On : 16 Jan 09 7:04 pm Operator: Stan Hunnicutt
 Sample : VOC std 100ug/L Inst : GC/MS Ins
 Misc : VOL196 50ul Multiplr: 1.00
 MS Integration Params: events.e
 Quant Time: Jan 17 22:41 19109 Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)
 Title : GCMS VOC Method 8260
 Last Update : Sat Jan 17 22:40:41 2009
 Response via : Initial Calibration
 DataAcq Meth : VOL

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
77) 1,2,3-Trichlorobenzene	19.76	180	14048891	89.35 ug/l	99

Quantitation Report

Data File : C:\HPCHEM\2\DATA\V011609\V0116007.D

Vial: 7

Acq On : 16 Jan 09 7:04 pm

Operator: Stan Hunnicutt

Sample : VOC std 100ug/L

Inst : GC/MS Ins

Misc : VOL196 50ul

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Jan 17 22:41 19109

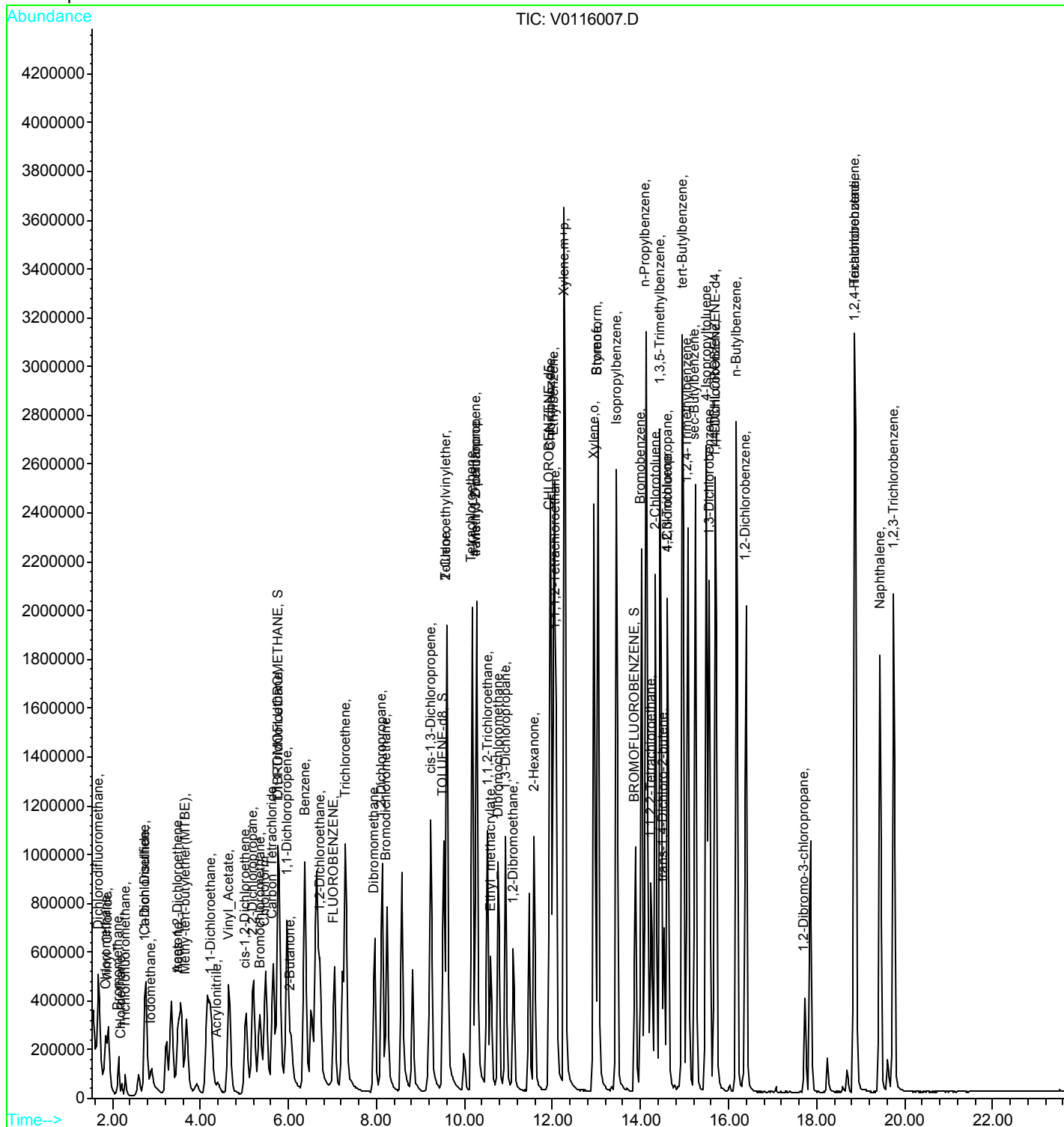
Quant Results File: VOL.RES

Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Sat Jan 17 23:14:11 2009

Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\V011609\V0116010.D Vial: 10
 Acq On : 16 Jan 09 8:31 pm Operator: Stan Hunnicutt
 Sample : MB Inst : GC/MS Ins
 Misc : VOL195 10ul Multiplr: 1.00
 MS Integration Params: events.e
 Quant Time: Jan 16 20:55 19109 Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)
 Title : GCMS VOC Method 8260
 Last Update : Tue Oct 28 09:54:20 2008
 Response via : Initial Calibration
 DataAcq Meth : VOL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	7.08	96	13336429	50.00	ug/l	0.03
45) CHLOROBENZENE-d5	11.95	117	13299809	50.00	ug/l	-0.03
68) 1,4-DICHLOROBENZENE-d4	15.70	152	7898903	50.00	ug/l	-0.04
System Monitoring Compounds						
22) DIBROMOFLUOROMETHANE	5.83	113	4144985	48.46	ug/l	0.07
Spiked Amount 50.000			Recovery	=	96.92%	
34) TOLUENE-d8	9.55	98	15090182	53.64	ug/l	0.00
Spiked Amount 50.000			Recovery	=	107.28%	
54) BROMOFLUOROBENZENE	13.89	95	6536776	44.90	ug/l	-0.04
Spiked Amount 50.000			Recovery	=	89.80%	
Target Compounds						
44) 2-Hexanone	11.62	43	339218	115.47	ug/l #	36
75) Naphthalene	19.46	128	106139	5.62	ug/l	100

(#) = qualifier out of range (m) = manual integration

V0116010.D VOL.M Sat Jan 24 14:41:37 2009

Quantitation Report

Data File : C:\HPCHEM\2\DATA\V011609\V0116010.D

Vial: 10

Acq On : 16 Jan 09 8:31 pm

Operator: Stan Hunnicutt

Sample : MB

Inst : GC/MS Ins

Misc : VOL195 10ul

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Jan 16 20:55 19109

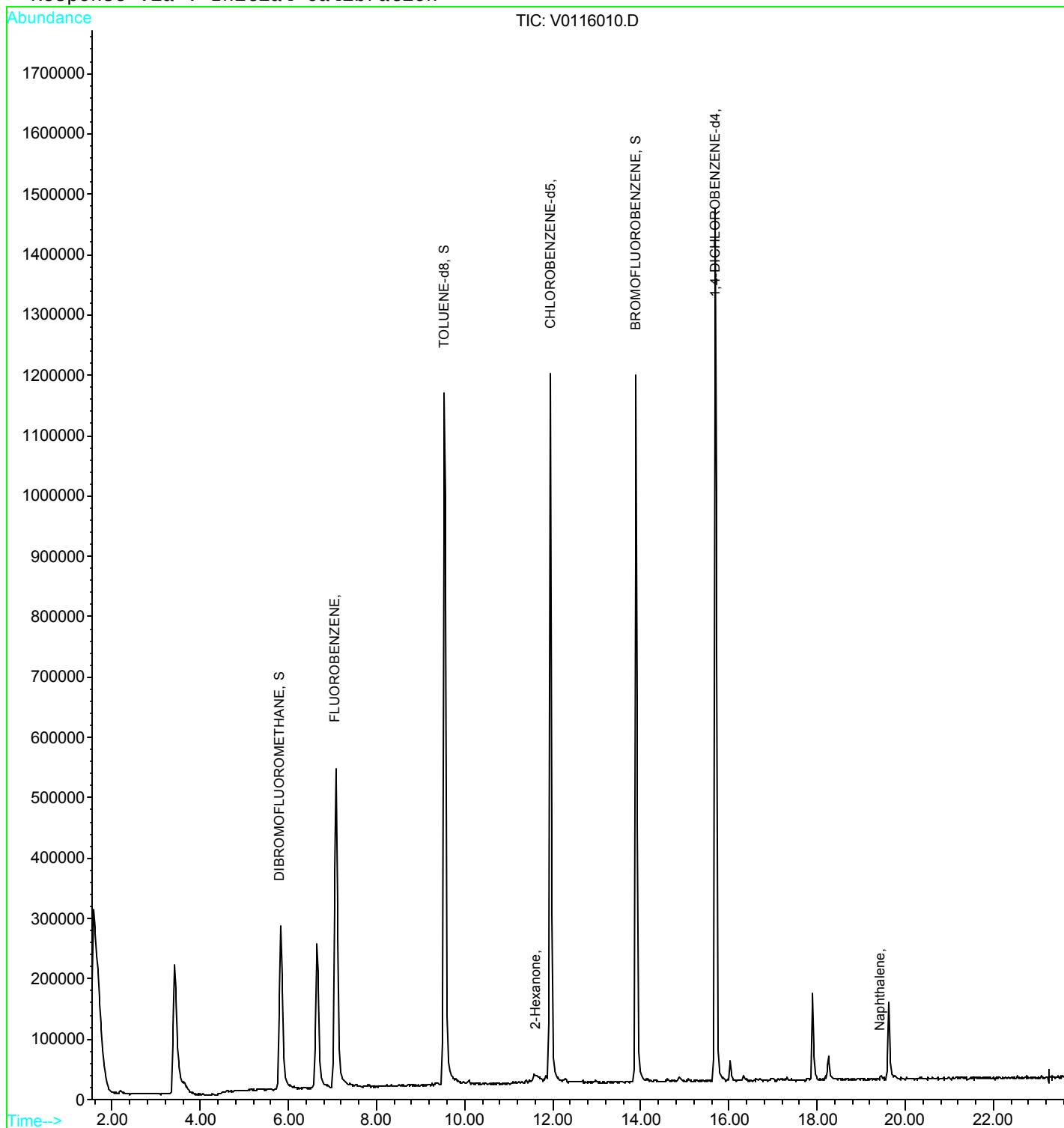
Quant Results File: VOL.RES

Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Sat Jan 17 23:14:11 2009

Response via : Initial Calibration



BFB

Data File : C:\HPCHEM\2\DATA\V020409\V0204001.D

Vial: 1

Acq On : 4 Feb 09 12:34 pm

Operator: Stan Hunnicutt

Sample : CCV VOC

Inst : GC/MS Ins

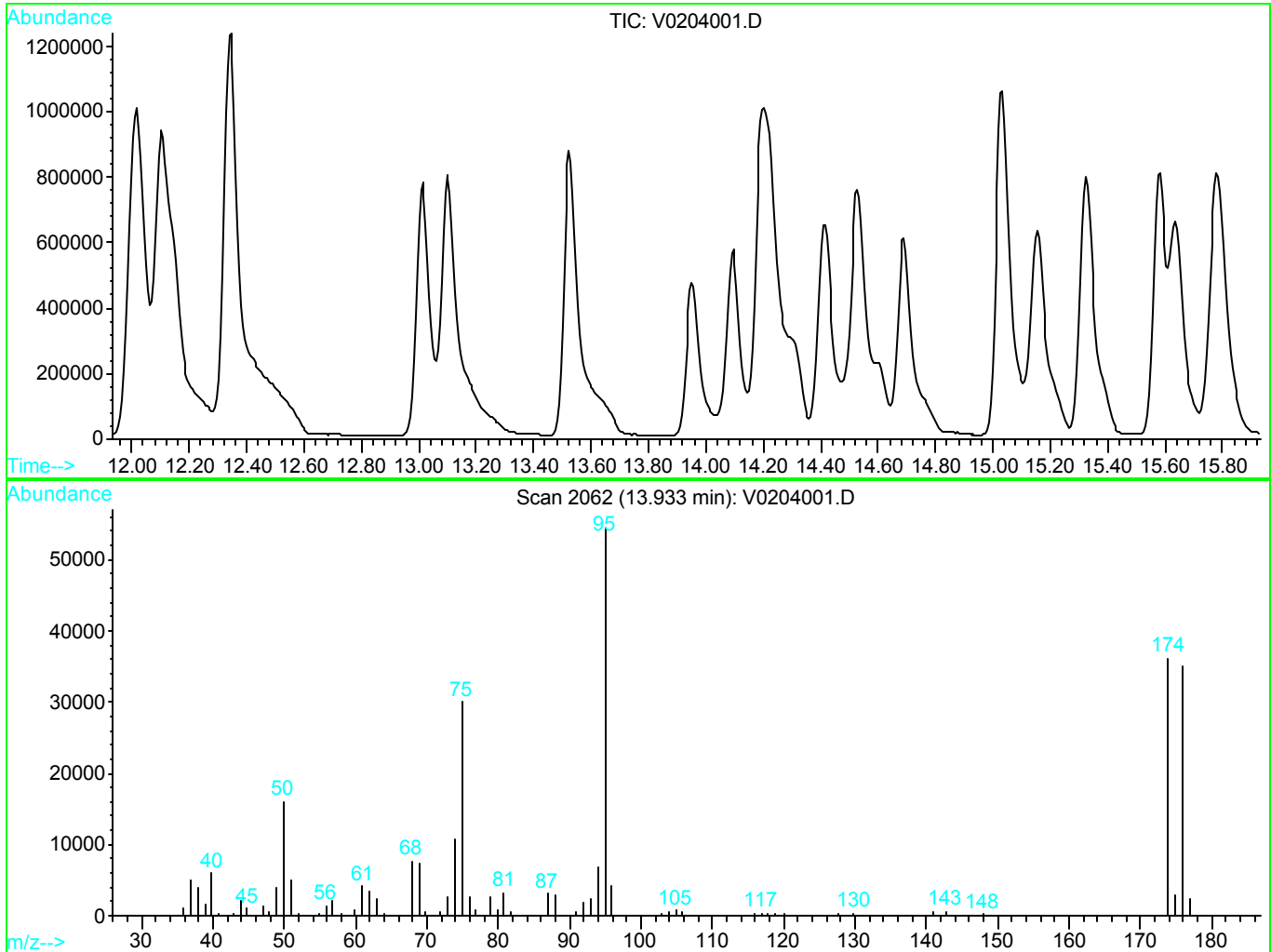
Misc : VOL196 25ul

Multiplr: 1.00

MS Integration Params: events.e

Method : C:\HPCHEM\2\METHODS\GR0.M (Chemstation Integrator)

Title : GR0



Spectrum Information: Scan 2062

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	29.6	16068	PASS
75	95	30	60	55.2	29984	PASS
95	95	100	100	100.0	54280	PASS
96	95	5	9	7.6	4117	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	66.5	36096	PASS
175	174	5	9	7.9	2869	PASS
176	174	95	101	97.2	35072	PASS
177	176	5	9	6.4	2232	PASS

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V020409\V0204001.D

Vial: 1

Acq On : 4 Feb 09 12:34 pm

Operator: Stan Hunnicutt

Sample : CCV VOC

Inst : GC/MS Ins

Misc : VOL196 25ul

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 4 13:47 19109

Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration

DataAcq Meth : VOL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	7.14	96	6365476	50.00	ug/l	0.10
46) CHLOROBENZENE-d5	12.00	117	6623776m	50.00	ug/l	0.06
69) 1,4-DICHLOROBENZENE-d4	15.77	152	2222828	50.00	ug/l	0.07

System Monitoring Compounds

23) DIBROMOFLUOROMETHANE	5.87	113	1481224	39.09	ug/l	0.10
Spiked Amount	50.000		Recovery	=	78.18%	
35) TOLUENE-d8	9.60	98	8396435	53.86	ug/l	0.08
Spiked Amount	50.000		Recovery	=	107.72%	
55) BROMOFLUOROBENZENE	13.95	95	3257269	47.20	ug/l	0.06
Spiked Amount	50.000		Recovery	=	94.40%	

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.69	85	1367288	25.84	ug/l	96
3) Chloromethane	1.87	50	13079693	430.43	ug/l	94
4) Vinyl_Chloride	1.92	62	2247540	97.89	ug/l	93
5) Bromomethane	2.18	94	1045491	130.18	ug/l	91
6) Chloroethane	2.27	64	477124	166.34	ug/l	93
7) Trichlorofluoromethane	2.38	101	1740572	321.15	ug/l	94
8) 1,1-Dichloroethene	2.85	96	455323	47.08	ug/l #	1
9) Carbon Disulfide	2.89	76	1444477	48.61	ug/l #	73
10) Iodomethane	3.00	142	822207	49.24	ug/l #	47
12) trans-1,2-Dichloroethene	3.59	96	807374	60.81	ug/l #	64
13) n-Hexane	3.69	57	1484442	86.64	ug/l	90
14) Methy-tert-butylether(MTBE)	3.74	73	1399280	31.90	ug/l #	1
15) 1,1-Dichloroethane	4.35	63	2138642	84.55	ug/l	99
16) Acrylonitrile	4.43	53	236616m	61.24	ug/l	72
17) Vinyl_Acetate	4.73	43	1514817	48.10	ug/l	100
18) cis-1,2-Dichloroethene	5.14	96	848420	35.70	ug/l #	45
19) 2,2-Dichloropropane	5.31	77	2431714	53.69	ug/l #	90
20) Bromochloromethane	5.45	128	388727	23.48	ug/l #	57
21) Chloroform	5.58	83	2716013	46.62	ug/l	99
22) Carbon_Tetrachloride	5.77	117	2548352	51.71	ug/l	87
24) 1,1,1-Trichloroethane	5.89	97	2761662	47.58	ug/l #	91
25) 2-Butanone	6.11	72	233098	60.26	ug/l #	38
26) 1,1-Dichloropropene	6.08	75	2664925	54.55	ug/l	96
27) Benzene	6.48	78	7642866	57.68	ug/l	100
28) 1,2-Dichloroethane	6.80	62	2567640	47.67	ug/l #	95
29) Trichloroethene	7.40	95	2437474	63.55	ug/l	86
30) Dibromomethane	8.04	93	924842	34.02	ug/l #	66
31) 1,2-Dichloropropane	8.21	63	2196031	54.86	ug/l	100

(#)= qualifier out of range (m)= manual integration

V0204001.D GRO.M

Wed Feb 04 16:11:11 2009

Data File : C:\HPCHEM\2\DATA\V020409\V0204001.D

Vial: 1

Acq On : 4 Feb 09 12:34 pm

Operator: Stan Hunnicutt

Sample : CCV VOC

Inst : GC/MS Ins

Misc : VOL196 25ul

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 4 13:47 19109

Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration

DataAcq Meth : VOL

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
32) Bromodichloromethane	8.32	83	2702397	42.12	ug/l	97
33) 2-Chloroethylvinylether	9.68	63	1115287	67.11	ug/l #	92
34) cis-1,3-Dichloropropene	9.32	75	3234076	40.35	ug/l	97
36) Toluene	9.68	92	6633778	53.76	ug/l	95
37) Tetrachloroethene	10.26	164	2455323m	35.97	ug/l	86
38) 4-Methyl-2-pentanone	10.34	100	186186	19.69	ug/l #	9
39) trans-1,3-Dichloropropene	10.35	75	2173362	29.65	ug/l	98
40) 1,1,2-Trichloroethane	10.59	83	1014893	29.37	ug/l	96
41) Ethyl_methacrylate	10.68	69	614009	19.59	ug/l #	90
42) Dibromochloromethane	10.84	129	1569121	24.93	ug/l	98
43) 1,3-Dichloropropane	11.00	76	2446842	29.48	ug/l	98
44) 1,2-Dibromoethane	11.18	107	1257148	24.07	ug/l #	99
45) 2-Hexanone	11.65	43	1377163	30.56	ug/l #	85
47) Chlorobenzene	12.03	112	7560297	51.88	ug/l	96
48) Ethylbenzene	12.11	91	13066016	57.49	ug/l	97
49) 1,1,1,2-Tetrachloroethane	12.15	131	1662860	28.37	ug/l	94
50) Xylene,m+p	12.35	106	9455561	98.72	ug/l	95
51) Xylene,o	13.01	106	5349306	52.79	ug/l	98
52) Styrene	13.10	104	6994190	43.48	ug/l	100
53) Bromoform	13.10	173	600547	13.75	ug/l	99
54) Isopropylbenzene	13.53	105	13829374	54.68	ug/l	98
56) Bromobenzene	14.10	156	2583505	35.11	ug/l #	81
57) n-Propylbenzene	14.19	91	13943152	49.70	ug/l	95
58) 1,1,2,2-Tetrachloroethane	14.32	83	910510	15.95	ug/l	87
59) 2-Chlorotoluene	14.41	91	7273188m	45.57	ug/l	96
60) 1,3,5-Trimethylbenzene	14.53	105	7801037	40.58	ug/l	95
61) 1,2,3-Trichloropropane	14.69	75	322645m	52.72	ug/l	100
62) trans-1,4-Dichloro-2-buten	14.61	53	316442	19.19	ug/l #	74
63) 4-Chlorotoluene	14.69	91	7854695	47.80	ug/l	93
64) tert-Butylbenzene	15.03	119	9286784	42.51	ug/l	97
65) 1,2,4-Trimethylbenzene	15.16	105	7361823	36.77	ug/l	95
66) sec-Butylbenzene	15.33	105	12382708	42.86	ug/l	94
67) 4-Isopropyltoluene	15.58	119	9869485	40.11	ug/l	97
68) 1,3-Dichlorobenzene	15.64	146	4301160m	31.62	ug/l	97
70) 1,4-Dichlorobenzene	15.79	146	4087788	53.97	ug/l #	96
71) n-Butylbenzene	16.28	91	8844960	76.84	ug/l	96
72) 1,2-Dichlorobenzene	16.48	146	3678465	51.03	ug/l #	95
73) 1,2-Dibromo-3-chloropropan	17.84	75	150665	26.69	ug/l #	58
74) Hexachlorobutadiene	18.99	225	1491466	50.70	ug/l	100
75) 1,2,4-Trichlorobenzene	19.00	180	1781159	29.86	ug/l #	93
76) Naphthalene	19.57	128	2172157	17.89	ug/l	100

(#)= qualifier out of range (m)= manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V020409\V0204001.D Vial: 1
 Acq On : 4 Feb 09 12:34 pm Operator: Stan Hunnicutt
 Sample : CCV VOC Inst : GC/MS Ins
 Misc : VOL196 25ul Multiplr: 1.00
 MS Integration Params: events.e
 Quant Time: Feb 4 13:47 19109 Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)
 Title : GCMS VOC Method 8260
 Last Update : Tue Jan 27 12:47:25 2009
 Response via : Initial Calibration
 DataAcq Meth : VOL

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
77) 1,2,3-Trichlorobenzene	19.89	180	1265741	22.97 ug/l	96

Quantitation Report

Data File : C:\HPCHEM\2\DATA\V020409\V0204001.D

Vial: 1

Acq On : 4 Feb 09 12:34 pm

Operator: Stan Hunnicutt

Sample : CCV VOC

Inst : GC/MS Ins

Misc : VOL196 25ul

Multiplr: 1.00

MS Integration Params: events.e

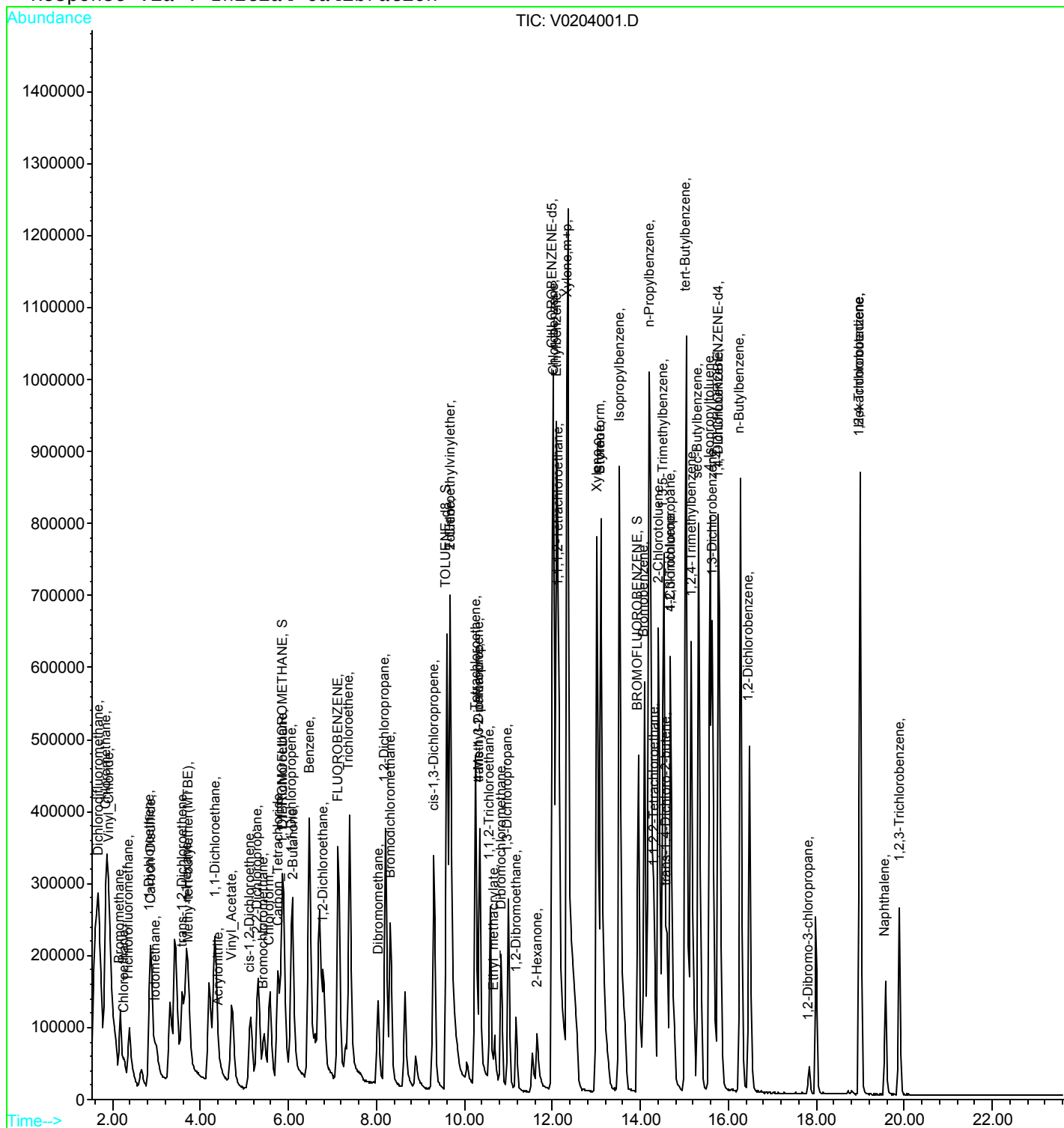
Quant Results File: VOL.RES

Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)

Title : GRO

Last Update : Sun Jan 18 10:29:09 2009

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V020409\V0204002.D Vial: 2
Acq On : 4 Feb 09 1:58 pm Operator: Stan Hunnicutt
Sample : w09-0099 500ul/5ml H2O Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Feb 4 15:01 19109 Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)
Title : GCMS VOC Method 8260
Last Update : Tue Jan 27 12:47:25 2009
Response via : Initial Calibration
DataAcq Meth : VOL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	7.08	96	5943963	50.00	ug/l	0.04
46) CHLOROBENZENE-d5	11.95	117	6395191	50.00	ug/l	0.00
69) 1,4-DICHLOROBENZENE-d4	15.71	152	3055952	50.00	ug/l	0.00
System Monitoring Compounds						
23) DIBROMOFLUOROMETHANE	5.81	113	1904079	53.81	ug/l	0.05
Spiked Amount	50.000		Recovery	=	107.62%	
35) TOLUENE-d8	9.54	98	7149991	49.11	ug/l	0.02
Spiked Amount	50.000		Recovery	=	98.22%	
55) BROMOFLUOROBENZENE	13.90	95	3097046	46.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.98%	
Target Compounds						
4) Vinyl_Chloride	1.94	62	126168	5.89	ug/l	Qvalue # 39

(#) = qualifier out of range (m) = manual integration

V0204002.D VOL.M Wed Feb 04 16:18:50 2009

Quantitation Report

Data File : C:\HPCHEM\2\DATA\V020409\V0204002.D

Vial: 2

Acq On : 4 Feb 09 1:58 pm

Operator: Stan Hunnicutt

Sample : w09-0099 500ul/5ml H2O

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 4 15:01 19109

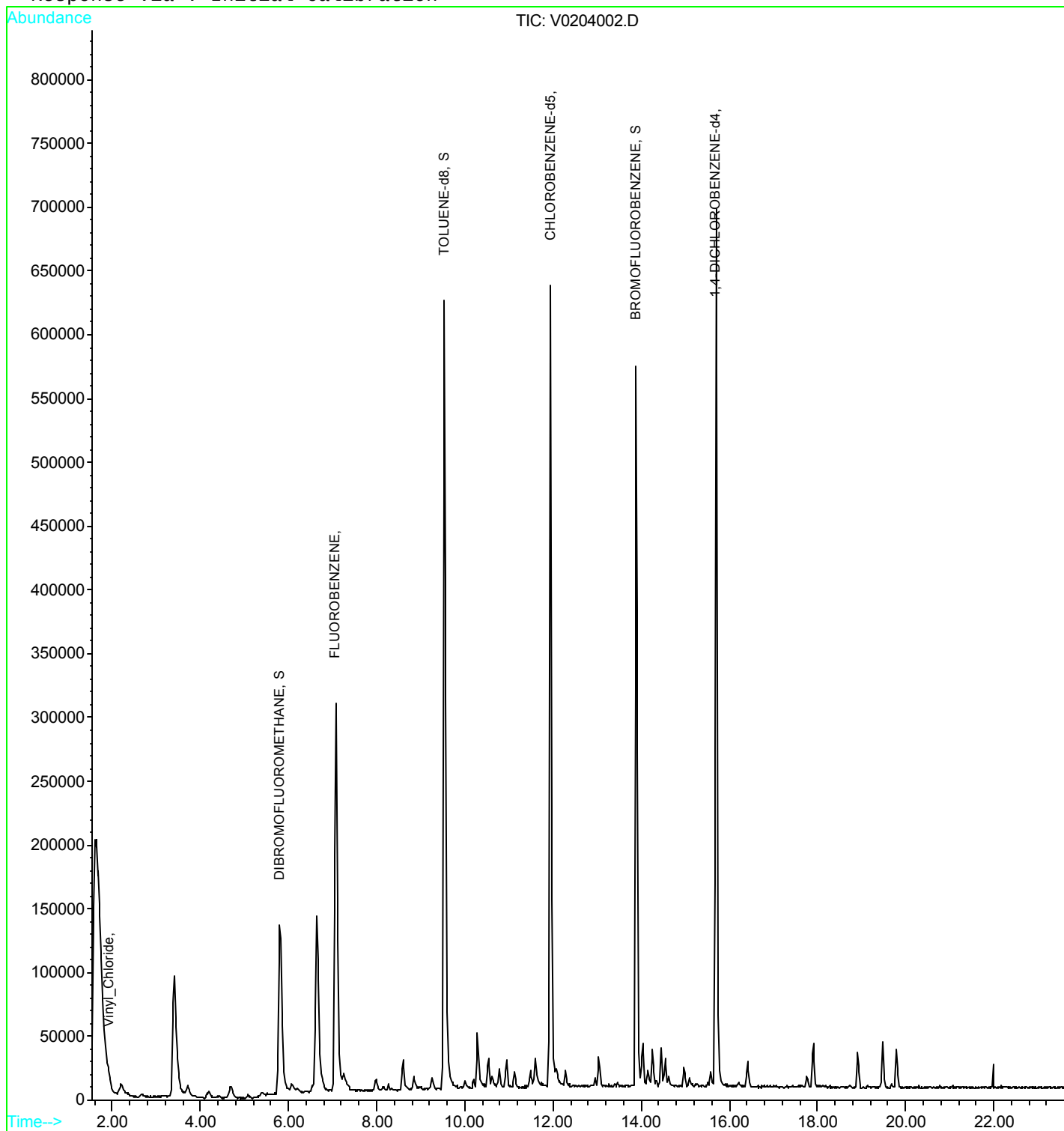
Quant Results File: VOL.RES

Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V020409\V0204003.D

Vial: 3

Acq On : 4 Feb 09 2:38 pm

Operator: Stan Hunnicutt

Sample : w09-0100 5ml

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 4 15:03 19109

Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration

DataAcq Meth : VOL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	7.05	96	5314704	50.00	ug/l	0.02
46) CHLOROBENZENE-d5	11.93	117	6358865	50.00	ug/l	-0.01
69) 1,4-DICHLOROBENZENE-d4	15.68	152	3447513	50.00	ug/l	-0.02
System Monitoring Compounds						
23) DIBROMOFLUOROMETHANE	5.78	113	1848413	58.42	ug/l	0.02
Spiked Amount	50.000		Recovery	=	116.84%	
35) TOLUENE-d8	9.52	98	6801166	52.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.50%	
55) BROMOFLUOROBENZENE	13.87	95	3218426	48.58	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	97.16%	
Target Compounds						
4) Vinyl_Chloride	1.94	62	196996	10.28	ug/l #	39
12) trans-1,2-Dichloroethene	3.55	96	97217	8.77	ug/l #	73
18) cis-1,2-Dichloroethene	5.06	96	1372297	68.76	ug/l	92

(#) = qualifier out of range (m) = manual integration

V0204003.D VOL.M Wed Feb 04 16:19:06 2009

Quantitation Report

Data File : C:\HPCHEM\2\DATA\V020409\V0204003.D

Vial: 3

Acq On : 4 Feb 09 2:38 pm

Operator: Stan Hunnicutt

Sample : w09-0100 5ml

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 4 15:03 19109

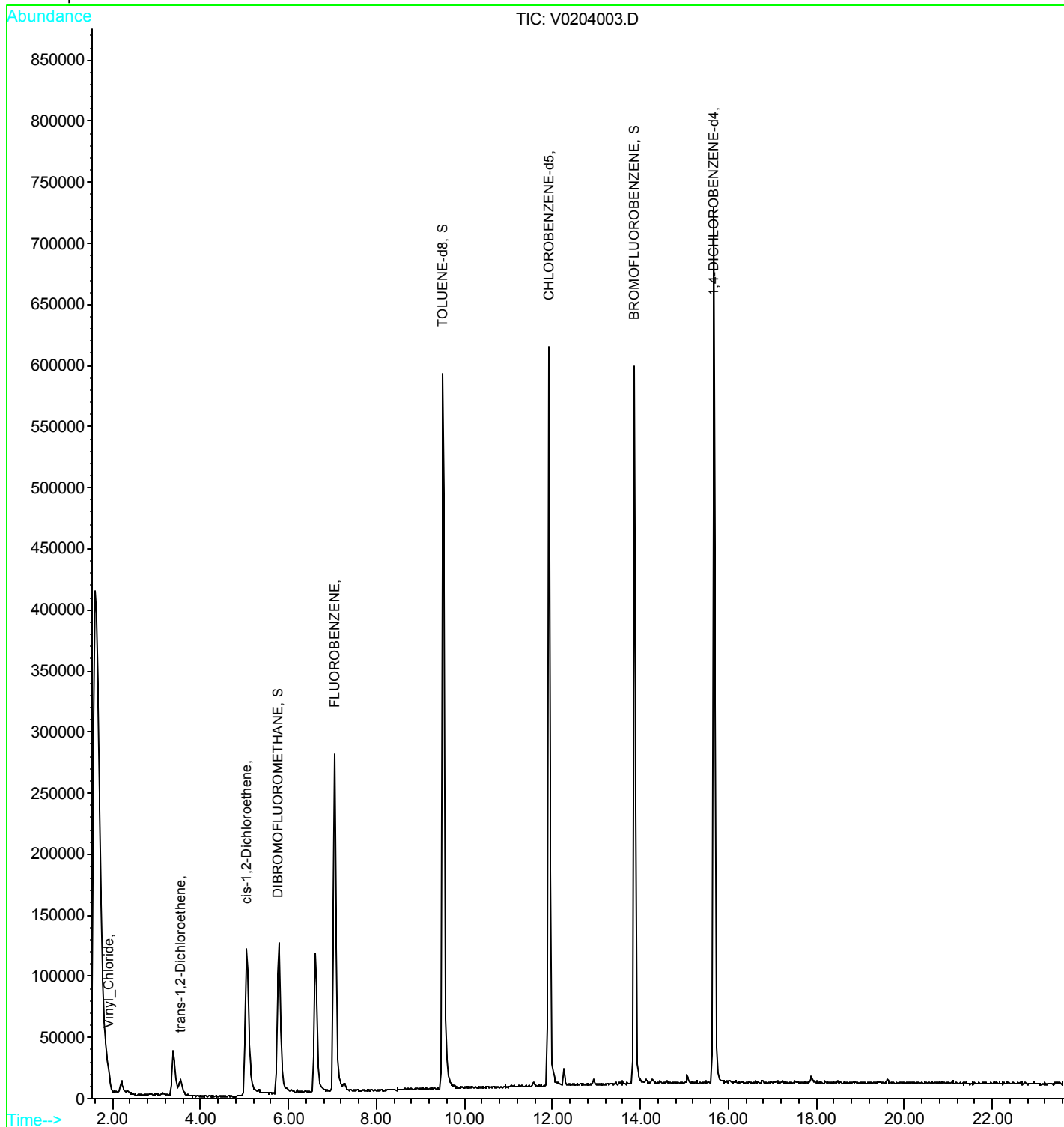
Quant Results File: VOL.RES

Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V020409\V0204004.D

Vial: 4

Acq On : 4 Feb 09 3:10 pm

Operator: Stan Hunnicutt

Sample : w09-0096 5ml

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 4 16:13 19109

Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration

DataAcq Meth : VOL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	7.05	96	5468169	50.00	ug/l	0.00
46) CHLOROBENZENE-d5	11.92	117	6493011	50.00	ug/l	-0.02
69) 1,4-DICHLOROBENZENE-d4	15.66	152	3580099	50.00	ug/l	-0.03
System Monitoring Compounds						
23) DIBROMOFLUOROMETHANE	5.77	113	1816055	55.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.58%	
35) TOLUENE-d8	9.51	98	7046415	52.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.22%	
55) BROMOFLUOROBENZENE	13.86	95	3293613	48.69	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	97.38%	
Target Compounds						
4) Vinyl_Chloride	1.92	62	51058m	2.59	ug/l	0
12) trans-1,2-Dichloroethene	3.55	96	321654	28.20	ug/l	95
18) cis-1,2-Dichloroethene	5.05	96	4292912	208.17	ug/l	91

(#) = qualifier out of range (m) = manual integration

V0204004.D VOL.M Wed Feb 04 16:14:55 2009

Quantitation Report

Data File : C:\HPCHEM\2\DATA\V020409\V0204004.D

Vial: 4

Acq On : 4 Feb 09 3:10 pm

Operator: Stan Hunnicutt

Sample : w09-0096 5ml

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 4 16:13 19109

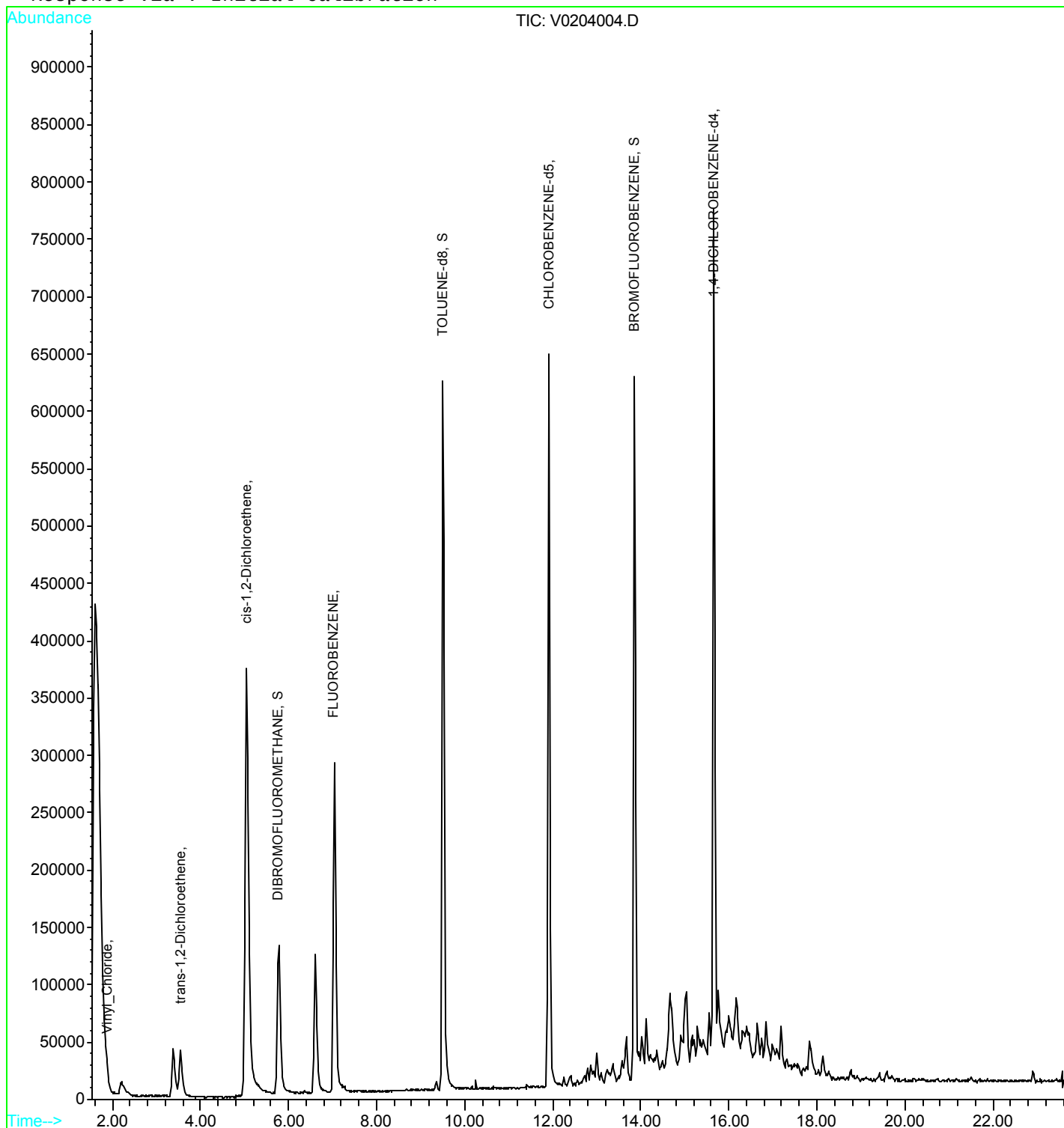
Quant Results File: VOL.RES

Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V020409\V0204005.D

Vial: 5

Acq On : 4 Feb 09 3:41 pm

Operator: Stan Hunnicutt

Sample : w09-0097 5ml

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 4 16:15 19109

Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration

DataAcq Meth : VOL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	7.03	96	5200431	50.00	ug/l	0.00
46) CHLOROBENZENE-d5	11.91	117	6344491	50.00	ug/l	-0.03
69) 1,4-DICHLOROBENZENE-d4	15.66	152	3849205	50.00	ug/l	-0.04
System Monitoring Compounds						
23) DIBROMOFLUOROMETHANE	5.76	113	1832298	59.19	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	118.38%	
35) TOLUENE-d8	9.50	98	6989750	54.88	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	109.76%	
55) BROMOFLUOROBENZENE	13.85	95	3397959	51.41	ug/l	-0.04
Spiked Amount	50.000		Recovery	=	102.82%	
Target Compounds						
4) Vinyl_Chloride	1.91	62	704945	37.58	ug/l	98
12) trans-1,2-Dichloroethene	3.52	96	152363	14.05	ug/l	95
18) cis-1,2-Dichloroethene	5.04	96	2036492	104.05	ug/l	84

(#) = qualifier out of range (m) = manual integration

V0204005.D VOL.M Wed Feb 04 16:15:56 2009

Quantitation Report

Data File : C:\HPCHEM\2\DATA\V0204009\V0204005.D

Vial: 5

Acq On : 4 Feb 09 3:41 pm

Operator: Stan Hunnicutt

Sample : w09-0097 5ml

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 4 16:15 19109

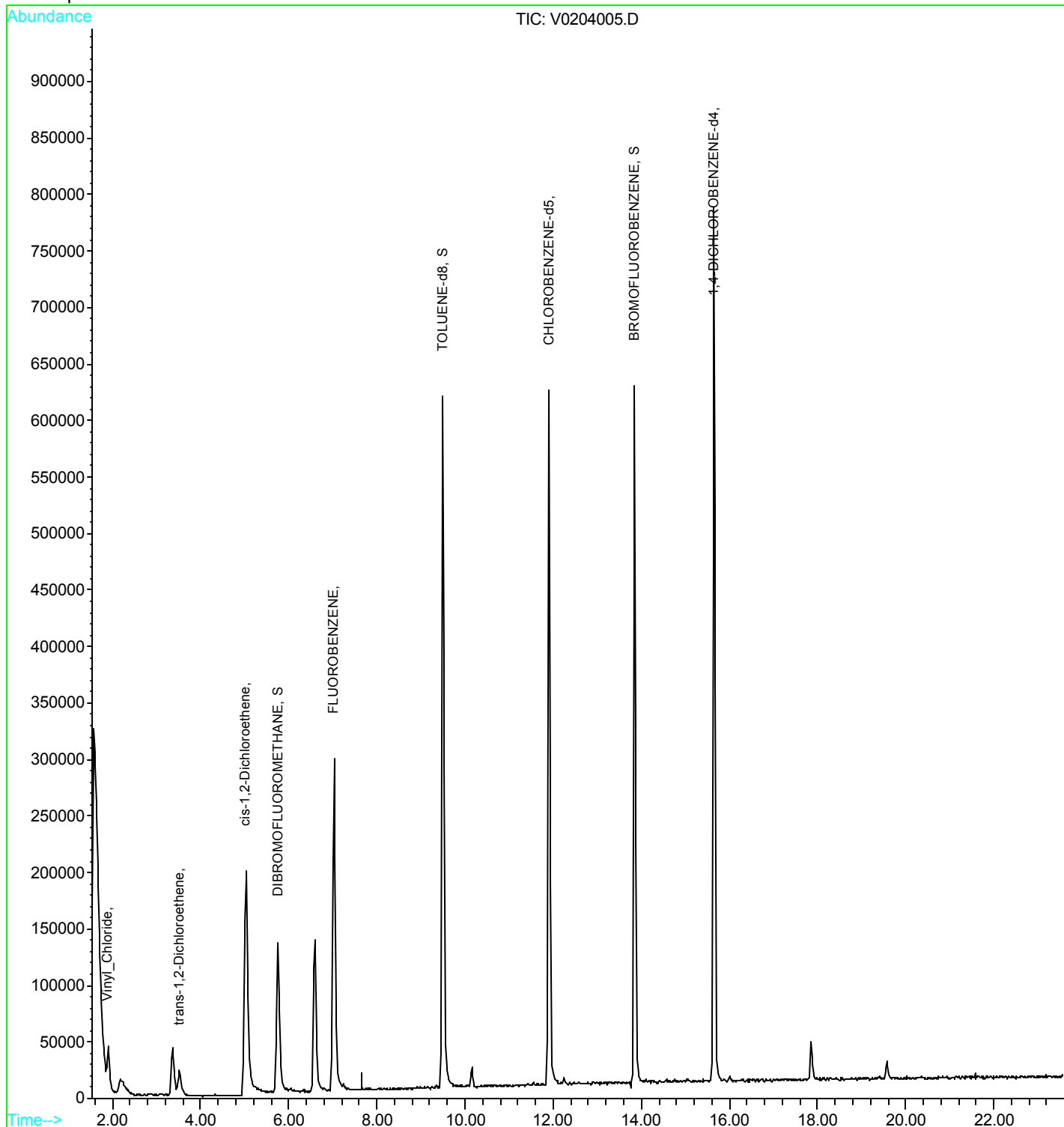
Quant Results File: VOL.RES

Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V020409\V0204006.D

Vial: 6

Acq On : 4 Feb 09 4:12 pm

Operator: Stan Hunnicutt

Sample : w09-0098 5ml

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 4 16:37 19109

Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration

DataAcq Meth : VOL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	7.02	96	5128107	50.00	ug/l	-0.02
46) CHLOROBENZENE-d5	11.91	117	6140409	50.00	ug/l	-0.03
69) 1,4-DICHLOROBENZENE-d4	15.66	152	3791552	50.00	ug/l	-0.04
System Monitoring Compounds						
23) DIBROMOFLUOROMETHANE	5.74	113	1767340	57.89	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	115.78%	
35) TOLUENE-d8	9.50	98	6571395	52.32	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	104.64%	
55) BROMOFLUOROBENZENE	13.85	95	3249427	50.80	ug/l	-0.04
Spiked Amount	50.000		Recovery	=	101.60%	
Target Compounds						
4) Vinyl_Chloride	1.90	62	693893	37.52	ug/l	97
12) trans-1,2-Dichloroethene	3.51	96	163768	15.31	ug/l	94
18) cis-1,2-Dichloroethene	5.01	96	1847515	95.76	ug/l #	82

(#) = qualifier out of range (m) = manual integration

V0204006.D VOL.M Wed Feb 04 16:37:28 2009

Quantitation Report

Data File : C:\HPCHEM\2\DATA\V020409\V0204006.D

Vial: 6

Acq On : 4 Feb 09 4:12 pm

Operator: Stan Hunnicutt

Sample : w09-0098 5ml

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 4 16:37 19109

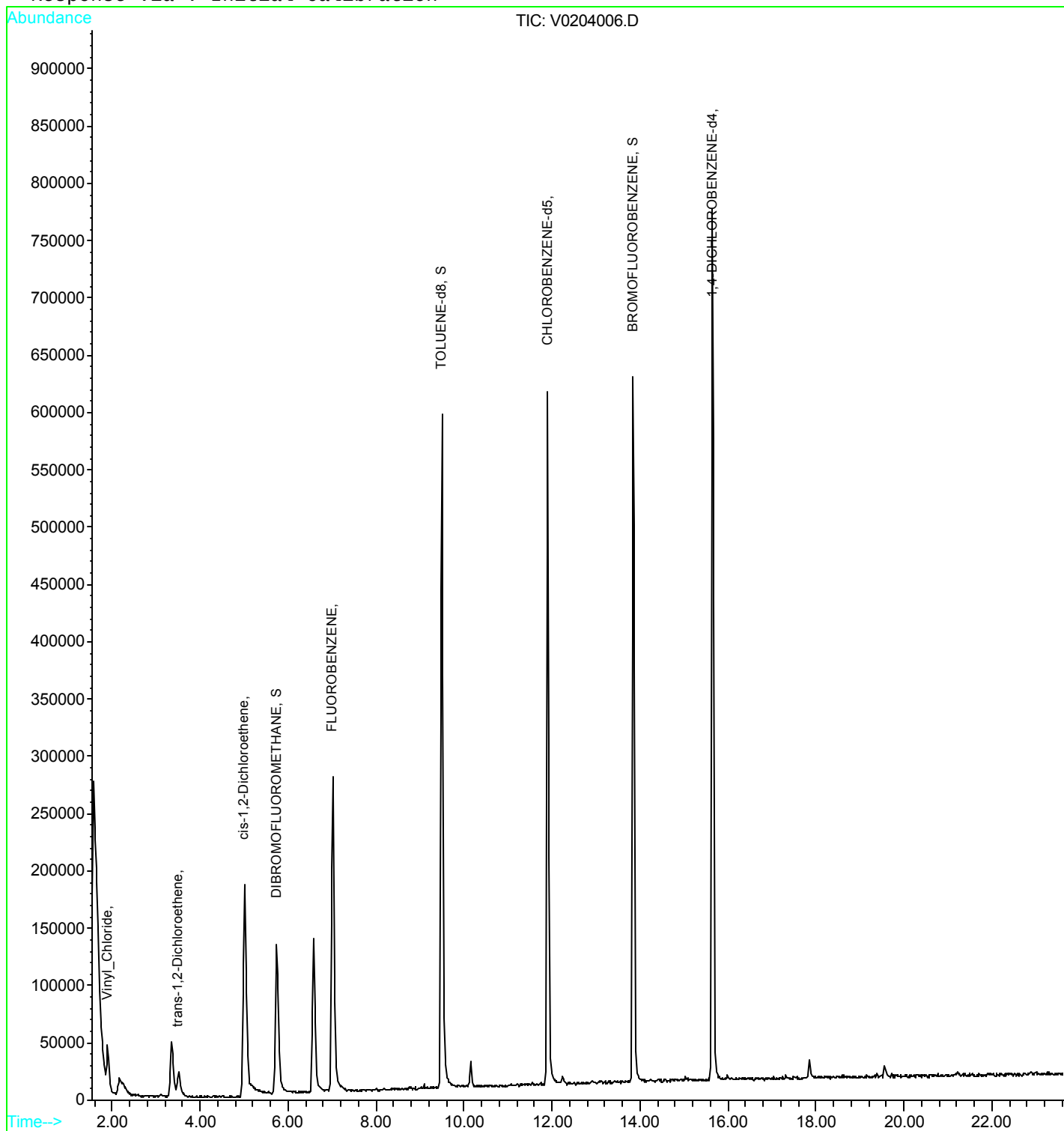
Quant Results File: VOL.RES

Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V020409\V0204007.D

Vial: 7

Acq On : 4 Feb 09 4:43 pm

Operator: Stan Hunnicutt

Sample : s09-0090 5.56g/5ml H2O

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 5 6:35 19109

Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration

DataAcq Meth : VOL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	7.03	96	4002566	50.00	ug/l	-0.01
46) CHLOROBENZENE-d5	11.91	117	4072583	50.00	ug/l	-0.03
69) 1,4-DICHLOROBENZENE-d4	15.66	152	1821850	50.00	ug/l	-0.04
System Monitoring Compounds						
23) DIBROMOFLUOROMETHANE	5.75	113	1575362	66.12	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	132.24%	
35) TOLUENE-d8	9.50	98	4986379	50.87	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	101.74%	
55) BROMOFLUOROBENZENE	13.85	95	1986213	46.82	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	93.64%	

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration

V0204007.D VOL.M Thu Feb 05 06:35:57 2009

Quantitation Report

Data File : C:\HPCHEM\2\DATA\V020409\V0204007.D

Vial: 7

Acq On : 4 Feb 09 4:43 pm

Operator: Stan Hunnicutt

Sample : s09-0090 5.56g/5ml H2O

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 5 6:35 19109

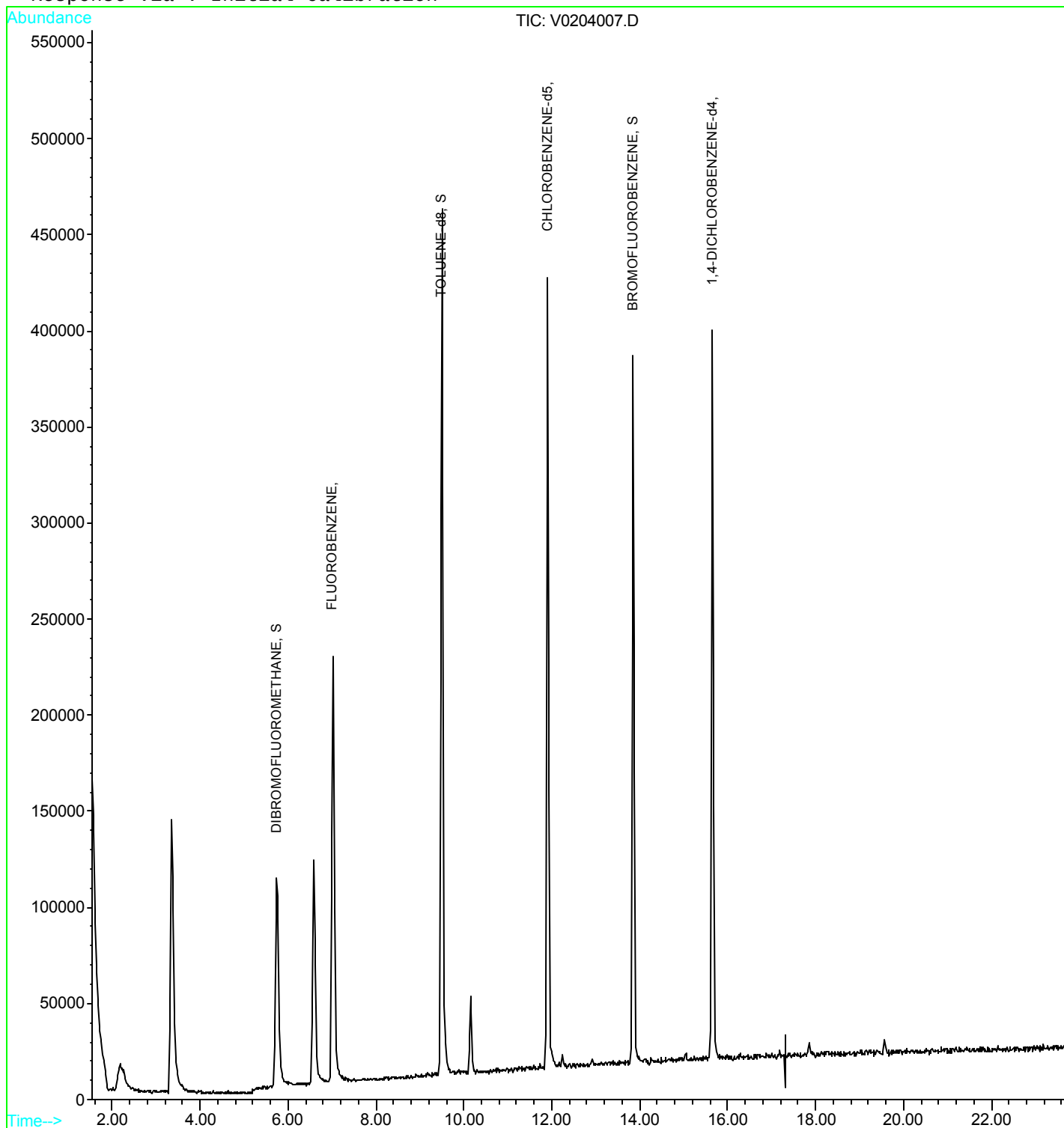
Quant Results File: VOL.RES

Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V020409\V0204008.D Vial: 8
Acq On : 4 Feb 09 5:14 pm Operator: Stan Hunnicutt
Sample : s09-0091 5.31g/5ml H2O Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Feb 5 6:36 19109 Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)
Title : GCMS VOC Method 8260
Last Update : Tue Jan 27 12:47:25 2009
Response via : Initial Calibration
DataAcq Meth : VOL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	7.03	96	3912243	50.00	ug/l	0.00
46) CHLOROBENZENE-d5	11.91	117	3554542	50.00	ug/l	-0.03
69) 1,4-DICHLOROBENZENE-d4	15.66	152	1134704	50.00	ug/l	-0.04
System Monitoring Compounds						
23) DIBROMOFLUOROMETHANE	5.75	113	1593298	68.41	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	136.82%	
35) TOLUENE-d8	9.50	98	4474458	46.70	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	93.40%	
55) BROMOFLUOROBENZENE	13.86	95	1481240	40.00	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	80.00%	
Target Compounds						
37) Tetrachloroethene	10.16	164	517472	12.33	ug/l	Qvalue 92

Quantitation Report

Data File : C:\HPCHEM\2\DATA\V020409\V0204008.D

Vial: 8

Acq On : 4 Feb 09 5:14 pm

Operator: Stan Hunnicutt

Sample : s09-0091 5.31g/5ml H2O

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 5 6:36 19109

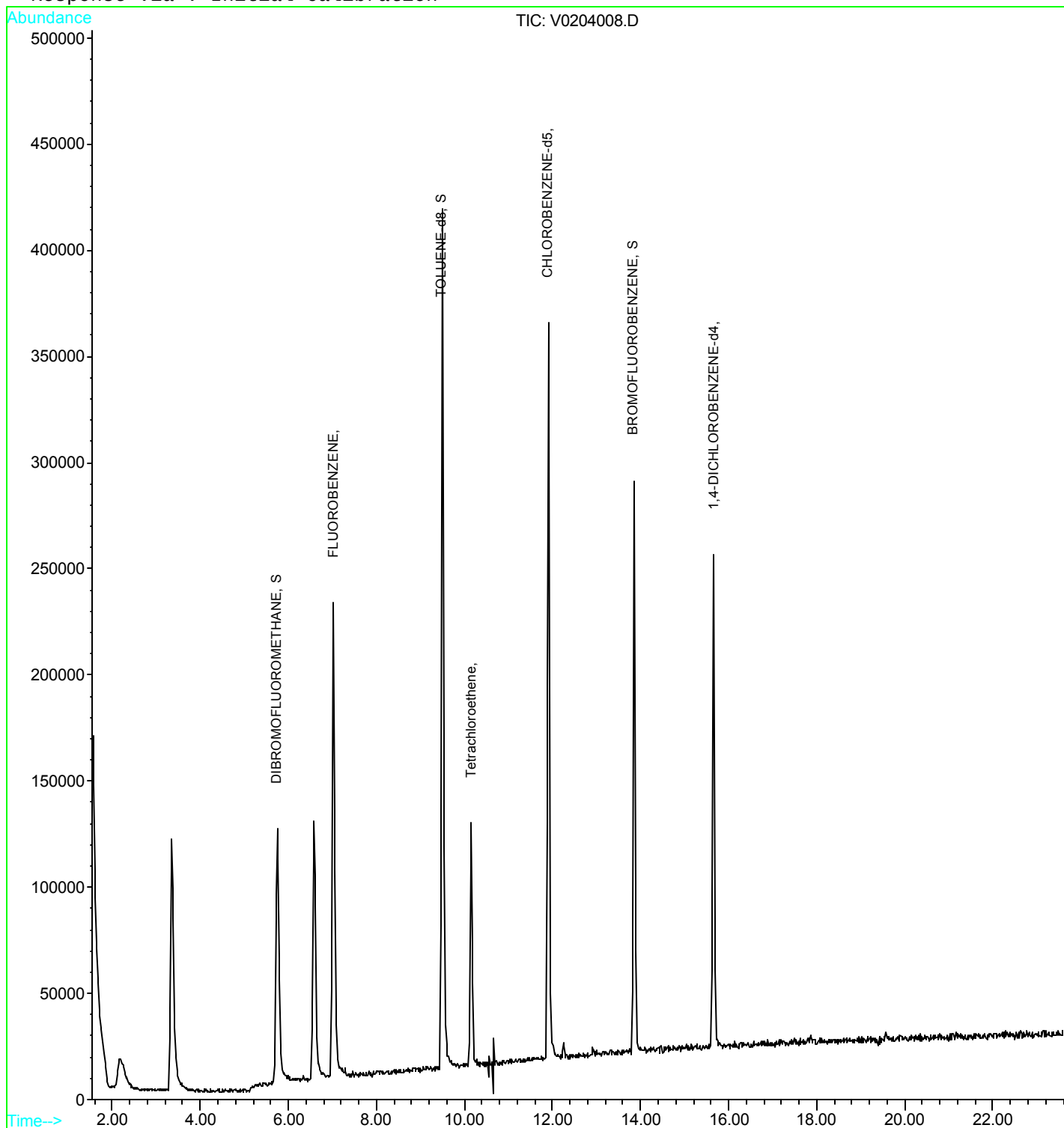
Quant Results File: VOL.RES

Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V020409\V0204009.D Vial: 9
Acq On : 4 Feb 09 5:44 pm Operator: Stan Hunnicutt
Sample : MB020409V Inst : GC/MS Ins
Misc : VOL195 10ul Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Feb 5 6:37 19109 Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)
Title : GCMS VOC Method 8260
Last Update : Tue Jan 27 12:47:25 2009
Response via : Initial Calibration
DataAcq Meth : VOL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	7.04	96	5482747	50.00	ug/l	0.00
46) CHLOROBENZENE-d5	11.91	117	6156541	50.00	ug/l	-0.03
69) 1,4-DICHLOROBENZENE-d4	15.66	152	3834104	50.00	ug/l	-0.04

System Monitoring Compounds

23) DIBROMOFLUOROMETHANE	5.77	113	2056913	63.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	126.04%	
35) TOLUENE-d8	9.51	98	6712384	49.99	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	99.98%	
55) BROMOFLUOROBENZENE	13.85	95	3345621	52.16	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	104.32%	

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration

V0204009.D VOL.M Thu Feb 05 06:37:21 2009

Quantitation Report

Data File : C:\HPCHEM\2\DATA\V020409\V0204009.D

Vial: 9

Acq On : 4 Feb 09 5:44 pm

Operator: Stan Hunnicutt

Sample : MB020409V

Inst : GC/MS Ins

Misc : VOL195 10ul

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 5 6:37 19109

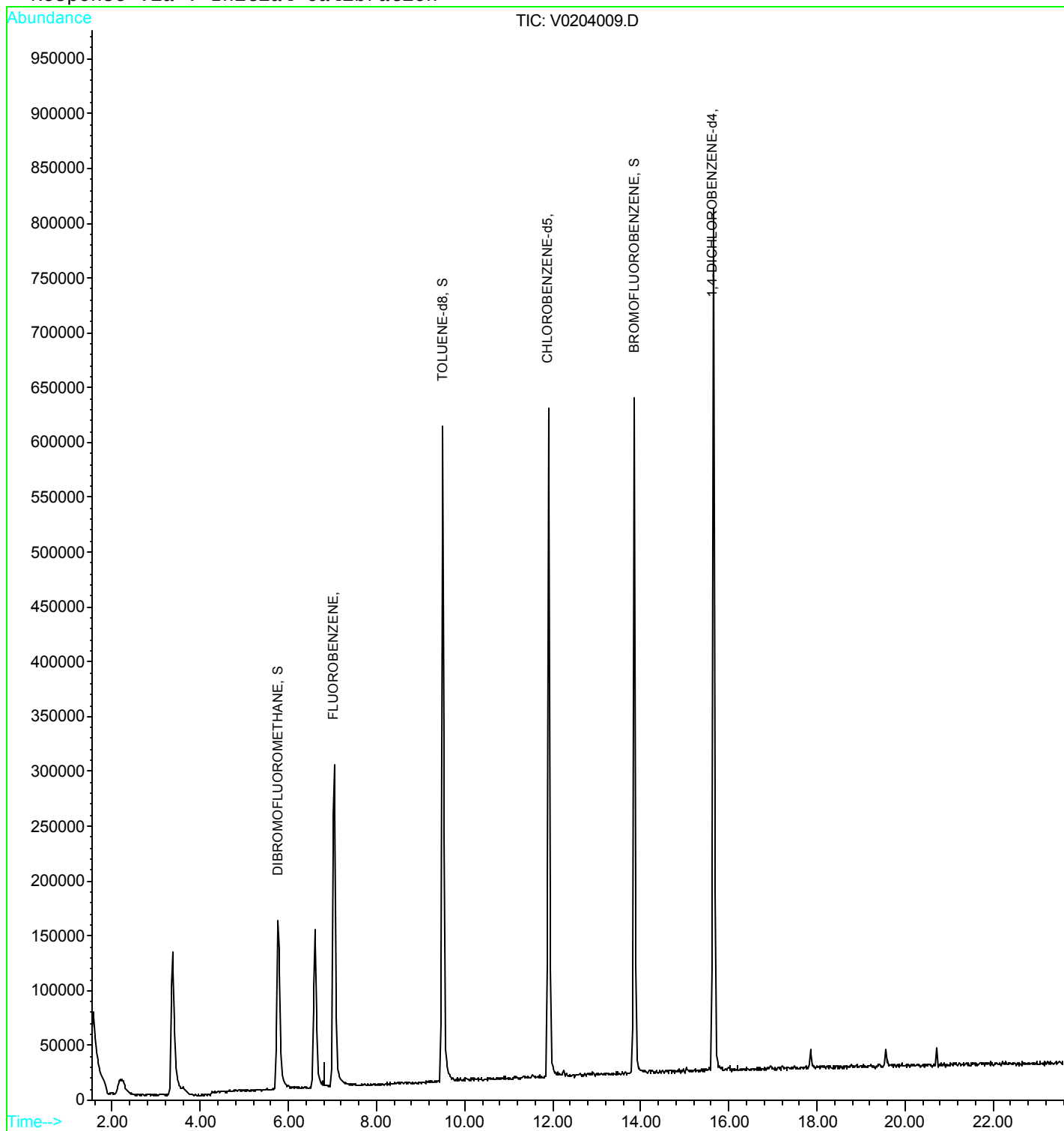
Quant Results File: VOL.RES

Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V020409\V0204010.D

Vial: 10

Acq On : 4 Feb 09 6:15 pm

Operator: Stan Hunnicutt

Sample : LCS020409V

Inst : GC/MS Ins

Misc : VOL196 25ul

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 4 18:38 19109

Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration

DataAcq Meth : VOL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	7.02	96	4972569	50.00	ug/l	-0.02
46) CHLOROBENZENE-d5	11.91	117	5670382	50.00	ug/l	-0.03
69) 1,4-DICHLOROBENZENE-d4	15.66	152	3297586	50.00	ug/l	-0.04

System Monitoring Compounds

23) DIBROMOFLUOROMETHANE	5.74	113	1652950	55.84	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	111.68%	
35) TOLUENE-d8	9.50	98	6448592	52.95	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	105.90%	
55) BROMOFLUOROBENZENE	13.86	95	3249910	55.02	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	110.04%	

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.68	85	872917	21.11 ug/l	100
3) Chloromethane	1.85	50	685422	28.87 ug/l	96
4) Vinyl_Chloride	1.90	62	630349	35.15 ug/l	94
5) Bromomethane	2.13	94	427595	68.16 ug/l	97
6) Chloroethane	2.20	64	171850	72.26 ug/l	97
7) Trichlorofluoromethane	2.29	101	389744	78.17 ug/l	97
8) 1,1-Dichloroethene	2.75	96	422025	55.86 ug/l	80
9) Carbon Disulfide	2.78	76	1345922	57.98 ug/l #	88
10) Iodomethane	2.90	142	1016208	77.91 ug/l	88
11) Acetone	3.46	58	76811	131.89 ug/l	80
12) trans-1,2-Dichloroethene	3.50	96	663676	63.99 ug/l	98
13) n-Hexane	3.56	57	676636	50.55 ug/l	91
14) Methy-tert-butylether(MTBE)	3.67	73	2053903	59.94 ug/l	96
15) 1,1-Dichloroethane	4.24	63	1294250	65.50 ug/l	99
16) Acrylonitrile	4.37	53	243093	81.70 ug/l #	78
17) Vinyl_Acetate	4.63	43	1658347	67.41 ug/l	100
18) cis-1,2-Dichloroethene	5.01	96	1038646	55.70 ug/l	90
19) 2,2-Dichloropropane	5.17	77	2333426	65.95 ug/l	95
20) Bromochloromethane	5.33	128	743810	57.52 ug/l	93
21) Chloroform	5.45	83	2722282	59.81 ug/l	97
22) Carbon_Tetrachloride	5.63	117	2757917	71.64 ug/l	99
24) 1,1,1-Trichloroethane	5.75	97	2794833	61.64 ug/l	98
25) 2-Butanone	6.04	72	264910	87.66 ug/l	66
26) 1,1-Dichloropropene	5.95	75	1934371	50.69 ug/l	99
27) Benzene	6.35	78	4819736	46.56 ug/l	100
28) 1,2-Dichloroethane	6.69	62	2789069	66.28 ug/l	97
29) Trichloroethene	7.28	95	1630126	54.18 ug/l	93
30) Dibromomethane	7.93	93	1160974	54.66 ug/l	88

(#)= qualifier out of range (m) = manual integration

V0204010.D VOL.M Thu Feb 05 06:38:40 2009

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V020409\V0204010.D

Vial: 10

Acq On : 4 Feb 09 6:15 pm

Operator: Stan Hunnicutt

Sample : LCS020409V

Inst : GC/MS Ins

Misc : VOL196 25ul

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 4 18:38 19109

Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration

DataAcq Meth : VOL

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
31) 1,2-Dichloropropane	8.11	63	1518767	48.57	ug/l	98
32) Bromodichloromethane	8.22	83	2975818	59.37	ug/l	96
33) 2-Chloroethylvinylether	9.58	63	786078	60.55	ug/l #	92
34) cis-1,3-Dichloropropene	9.22	75	3149570	50.30	ug/l	93
36) Toluene	9.58	92	4435695	46.02	ug/l	98
37) Tetrachloroethene	10.16	164	2447020	45.89	ug/l	94
38) 4-Methyl-2-pentanone	10.25	100	772035	104.51	ug/l	86
39) trans-1,3-Dichloropropene	10.26	75	3138470	54.81	ug/l	99
40) 1,1,2-Trichloroethane	10.50	83	1369843	50.74	ug/l	99
41) Ethyl_methacrylate	10.58	69	1196273	48.85	ug/l	93
42) Dibromochloromethane	10.75	129	2860614	58.18	ug/l	98
43) 1,3-Dichloropropane	10.91	76	3299568	50.89	ug/l	99
44) 1,2-Dibromoethane	11.09	107	2162935	53.02	ug/l	98
45) 2-Hexanone	11.56	43	3640106	103.42	ug/l	98
47) Chlorobenzene	11.94	112	5962392	47.79	ug/l	100
48) Ethylbenzene	12.01	91	9624105	49.46	ug/l	100
49) 1,1,1,2-Tetrachloroethane	12.06	131	2570875	51.23	ug/l	98
50) Xylene,m+p	12.25	106	7271403	88.68	ug/l	90
51) Xylene,o	12.92	106	4178733	48.17	ug/l	99
52) Styrene	13.01	104	6472187	47.00	ug/l	90
53) Bromoform	13.01	173	1897016	50.72	ug/l	98
54) Isopropylbenzene	13.43	105	10671392	49.29	ug/l	97
56) Bromobenzene	14.00	156	2952662	46.87	ug/l	92
57) n-Propylbenzene	14.09	91	11960347	49.80	ug/l	97
58) 1,1,2,2-Tetrachloroethane	14.22	83	2421291	49.54	ug/l	99
59) 2-Chlorotoluene	14.32	91	7188897	52.61	ug/l	98
60) 1,3,5-Trimethylbenzene	14.43	105	8478575	51.52	ug/l	100
61) 1,2,3-Trichloropropane	14.59	75	254610	48.60	ug/l	100
62) trans-1,4-Dichloro-2-buten	14.51	53	885075	62.69	ug/l	87
63) 4-Chlorotoluene	14.59	91	7338442	52.17	ug/l	99
64) tert-Butylbenzene	14.93	119	9310437	49.78	ug/l	92
65) 1,2,4-Trimethylbenzene	15.05	105	8868075	51.74	ug/l	98
66) sec-Butylbenzene	15.22	105	12429468	50.26	ug/l	96
67) 4-Isopropyltoluene	15.47	119	10523936	49.96	ug/l	97
68) 1,3-Dichlorobenzene	15.54	146	5401520	46.39	ug/l	98
70) 1,4-Dichlorobenzene	15.69	146	5471440	48.69	ug/l	97
71) n-Butylbenzene	16.15	91	9405803	55.08	ug/l	98
72) 1,2-Dichlorobenzene	16.37	146	5280124	49.37	ug/l	98
73) 1,2-Dibromo-3-chloropropan	17.70	75	480569	57.40	ug/l	83
74) Hexachlorobutadiene	18.82	225	2163417	49.57	ug/l	99
75) 1,2,4-Trichlorobenzene	18.85	180	4386525	49.57	ug/l	100

(#)= qualifier out of range (m) = manual integration

V0204010.D VOL.M

Thu Feb 05 06:38:41 2009

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V020409\V0204010.D Vial: 10
 Acq On : 4 Feb 09 6:15 pm Operator: Stan Hunnicutt
 Sample : LCS020409V Inst : GC/MS Ins
 Misc : VOL196 25ul Multiplr: 1.00
 MS Integration Params: events.e
 Quant Time: Feb 4 18:38 19109 Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)
 Title : GCMS VOC Method 8260
 Last Update : Tue Jan 27 12:47:25 2009
 Response via : Initial Calibration
 DataAcq Meth : VOL

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
76) Naphthalene	19.40	128	9220515	51.20 ug/l	100
77) 1,2,3-Trichlorobenzene	19.71	180	3959302	48.44 ug/l	98

Quantitation Report

Data File : C:\HPCHEM\2\DATA\V020409\V0204010.D

Vial: 10

Acq On : 4 Feb 09 6:15 pm

Operator: Stan Hunnicutt

Sample : LCS020409V

Inst : GC/MS Ins

Misc : VOL196 25ul

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 4 18:38 19109

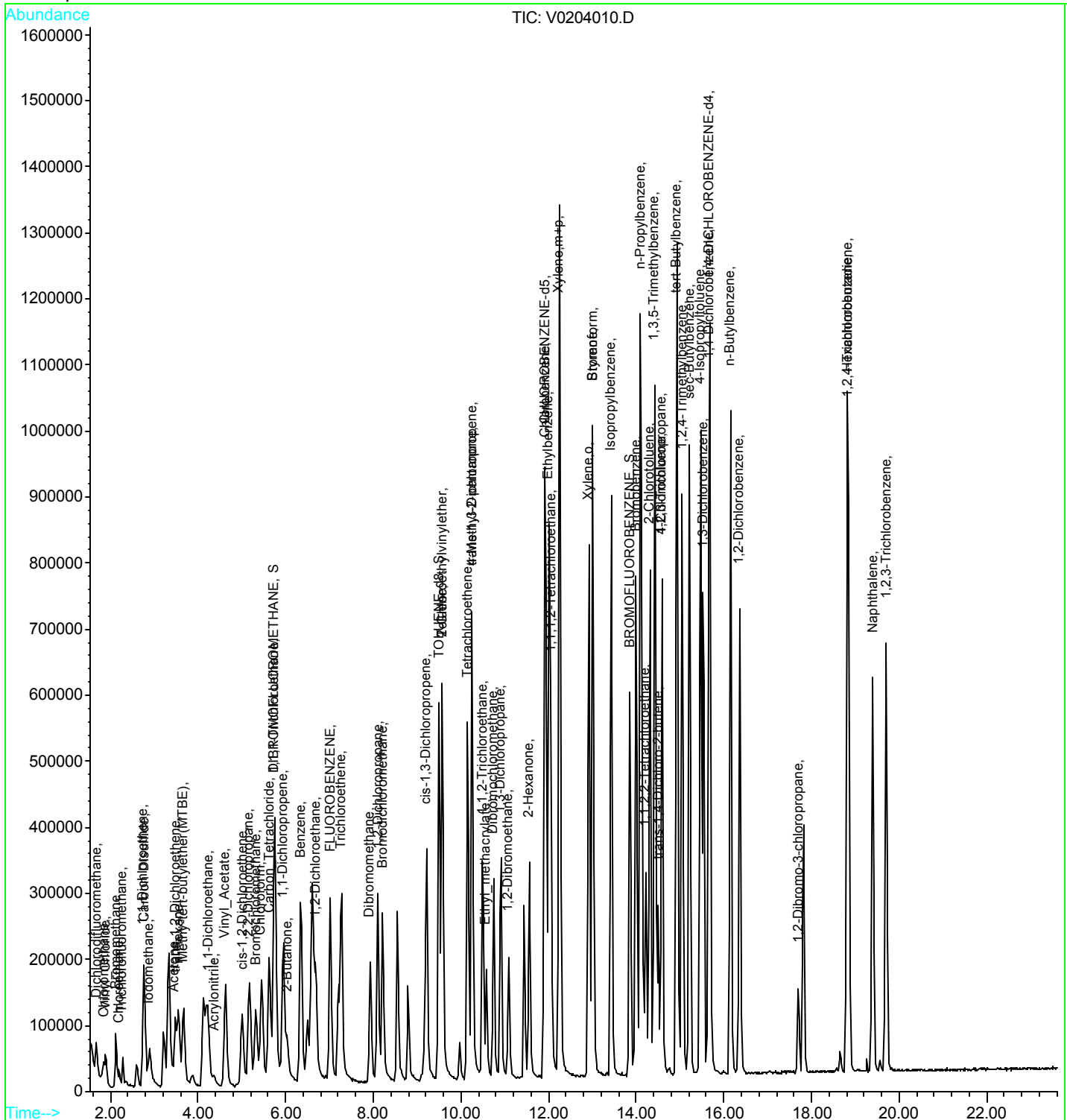
Quant Results File: VOL.RES

Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V020409\V0204011.D Vial: 11
Acq On : 4 Feb 09 6:45 pm Operator: Stan Hunnicutt
Sample : s09-0092 5.54g/5ml H2O Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Feb 5 6:39 19109 Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)
Title : GCMS VOC Method 8260
Last Update : Tue Jan 27 12:47:25 2009
Response via : Initial Calibration
DataAcq Meth : VOL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	7.04	96	3950321	50.00	ug/l	0.00
46) CHLOROBENZENE-d5	11.91	117	2999560	50.00	ug/l	-0.02
69) 1,4-DICHLOROBENZENE-d4	15.66	152	1023037	50.00	ug/l	-0.04
System Monitoring Compounds						
23) DIBROMOFLUOROMETHANE	5.77	113	1602711	68.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	136.30%	
35) TOLUENE-d8	9.51	98	4056587	41.93	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	83.86%	
55) BROMOFLUOROBENZENE	13.86	95	1286039	41.16	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	82.32%	
Target Compounds						
37) Tetrachloroethene	10.16	164	8197344	193.49	ug/l	Qvalue 95

Quantitation Report

Data File : C:\HPCHEM\2\DATA\V020409\V0204011.D

Vial: 11

Acq On : 4 Feb 09 6:45 pm

Operator: Stan Hunnicutt

Sample : s09-0092 5.54g/5ml H2O

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 5 6:39 19109

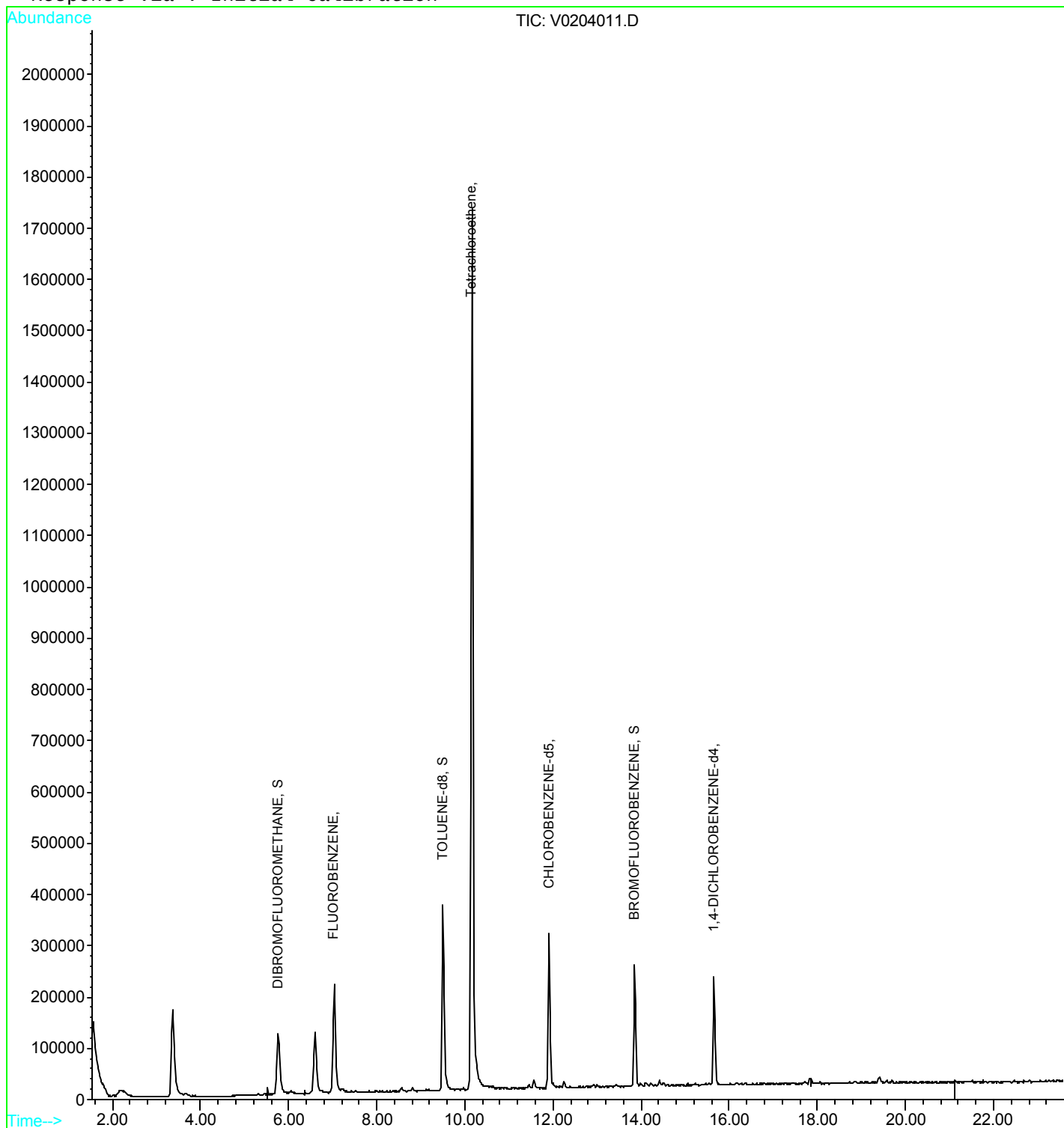
Quant Results File: VOL.RES

Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V020409\V0204012.D Vial: 12
Acq On : 4 Feb 09 7:15 pm Operator: Stan Hunnicutt
Sample : s09-0093 5.20g/5ml H2O Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Feb 5 6:40 19109 Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)
Title : GCMS VOC Method 8260
Last Update : Tue Jan 27 12:47:25 2009
Response via : Initial Calibration
DataAcq Meth : VOL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	7.04	96	4071866	50.00	ug/l	0.00
46) CHLOROBENZENE-d5	11.92	117	3324950	50.00	ug/l	-0.02
69) 1,4-DICHLOROBENZENE-d4	15.66	152	1265390	50.00	ug/l	-0.03
System Monitoring Compounds						
23) DIBROMOFLUOROMETHANE	5.77	113	1743298	71.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	143.84%	
35) TOLUENE-d8	9.51	98	4333299	43.45	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	86.90%	
55) BROMOFLUOROBENZENE	13.86	95	1495481	43.17	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	86.34%	
Target Compounds						
37) Tetrachloroethene	10.17	164	7945666	181.96	ug/l	Qvalue 93

Quantitation Report

Data File : C:\HPCHEM\2\DATA\V020409\V0204012.D

Vial: 12

Acq On : 4 Feb 09 7:15 pm

Operator: Stan Hunnicutt

Sample : s09-0093 5.20g/5ml H2O

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 5 6:40 19109

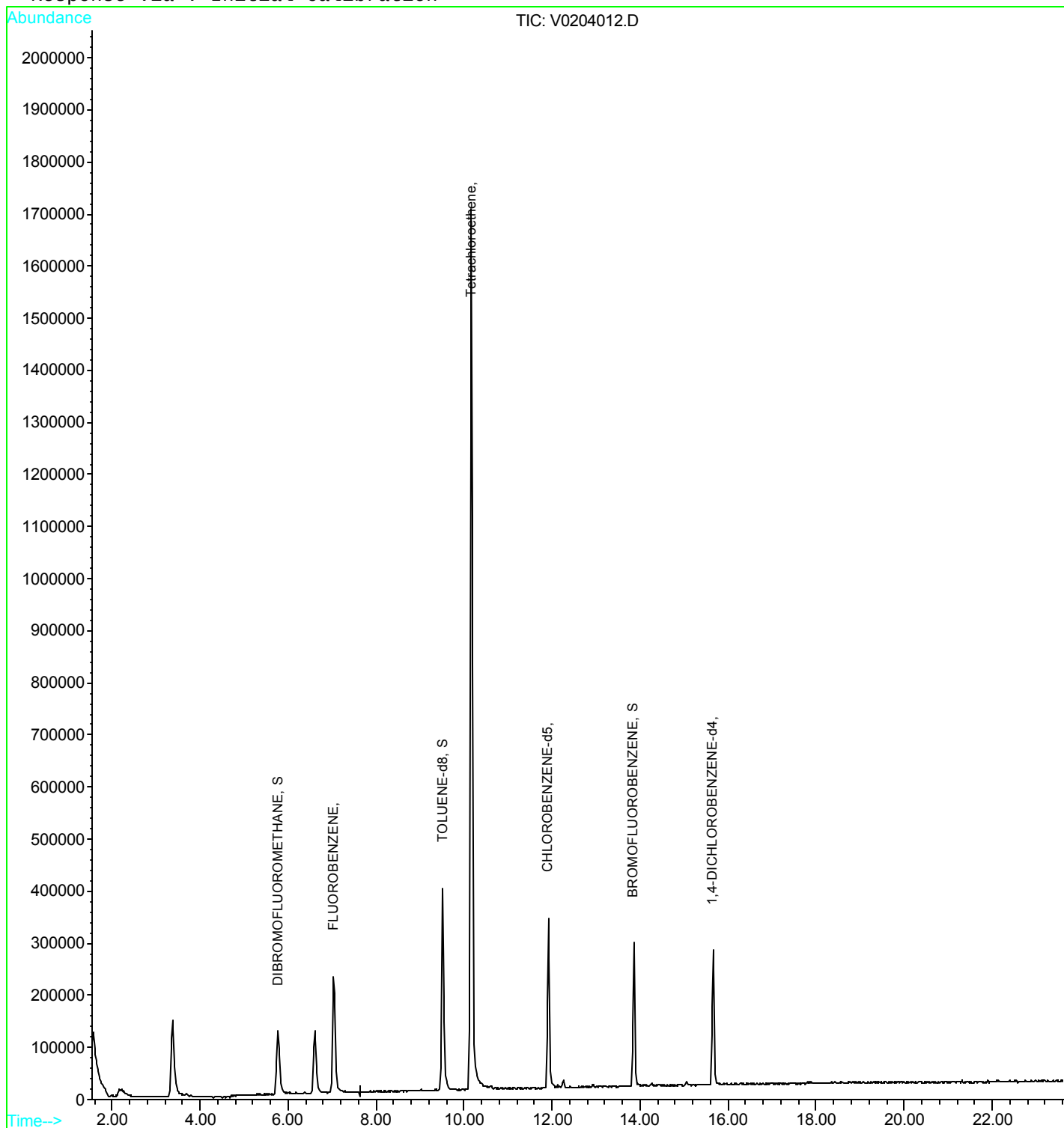
Quant Results File: VOL.RES

Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V020409\V0204013.D

Vial: 13

Acq On : 4 Feb 09 7:45 pm

Operator: Stan Hunnicutt

Sample : s09-0094 4.99g/5ml H2O

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 5 6:40 19109

Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration

DataAcq Meth : VOL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	7.05	96	3906907	50.00	ug/l	0.01
46) CHLOROBENZENE-d5	11.92	117	3006485	50.00	ug/l	-0.02
69) 1,4-DICHLOROBENZENE-d4	15.66	152	1092532	50.00	ug/l	-0.03
System Monitoring Compounds						
23) DIBROMOFLUOROMETHANE	5.78	113	1713374	73.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	147.34%	
35) TOLUENE-d8	9.52	98	4078759	42.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.26%	
55) BROMOFLUOROBENZENE	13.86	95	1305705	41.69	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	83.38%	
Target Compounds						
37) Tetrachloroethene	10.17	164	4760770	113.62	ug/l	Qvalue 92

(#) = qualifier out of range (m) = manual integration

V0204013.D VOL.M Thu Feb 05 06:41:11 2009

Quantitation Report

Data File : C:\HPCHEM\2\DATA\V020409\V0204013.D

Vial: 13

Acq On : 4 Feb 09 7:45 pm

Operator: Stan Hunnicutt

Sample : s09-0094 4.99g/5ml H2O

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 5 6:40 19109

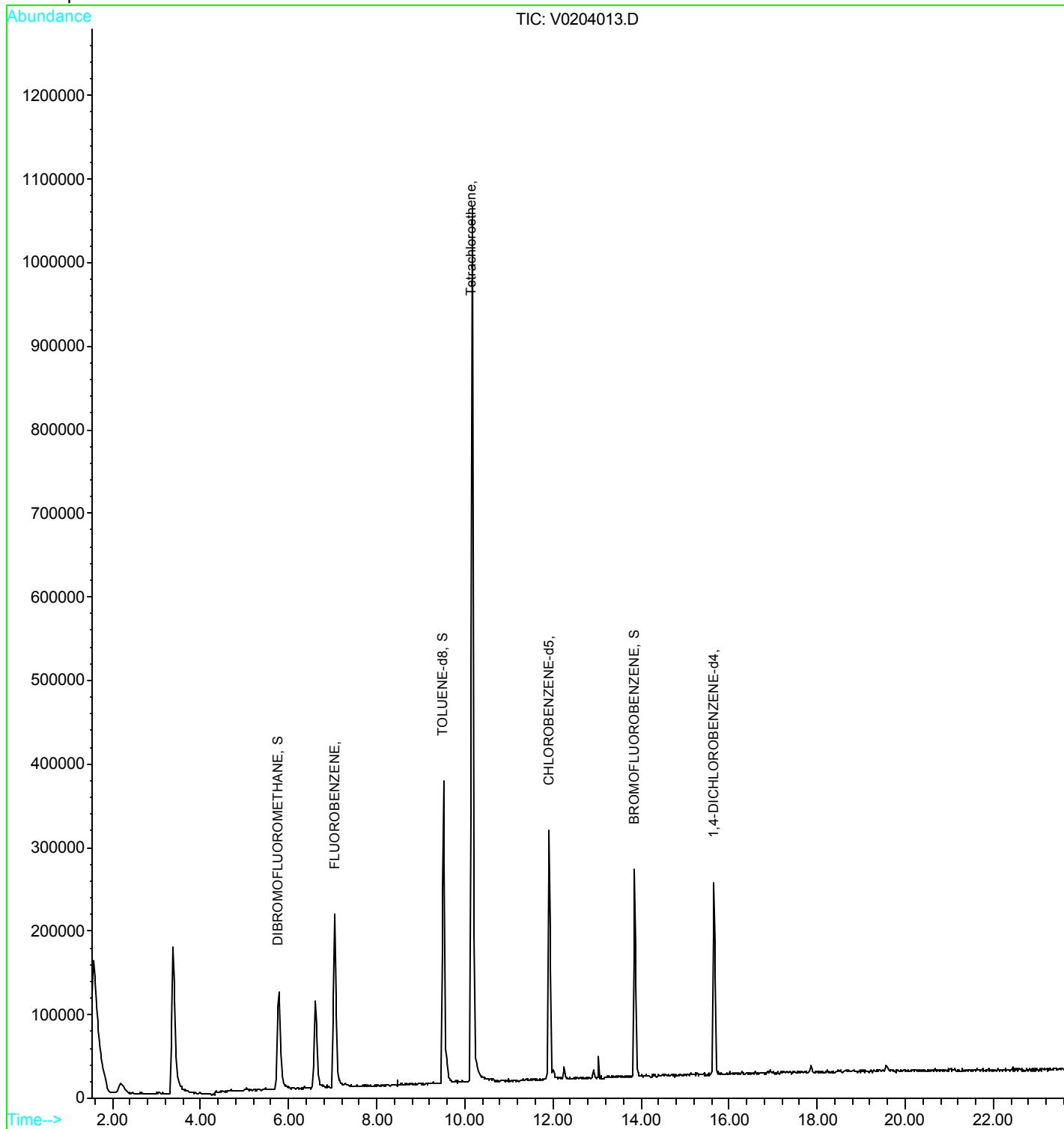
Quant Results File: VOL.RES

Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V020409\V0204014.D

Vial: 14

Acq On : 4 Feb 09 8:15 pm

Operator: Stan Hunnicutt

Sample : w09-0107 5ml

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 5 6:41 19109

Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration

DataAcq Meth : VOL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	7.04	96	5280340	50.00	ug/l	0.00
46) CHLOROBENZENE-d5	11.92	117	6197219	50.00	ug/l	-0.02
69) 1,4-DICHLOROBENZENE-d4	15.67	152	3837267	50.00	ug/l	-0.03
System Monitoring Compounds						
23) DIBROMOFLUOROMETHANE	5.78	113	1968925	62.64	ug/l	0.00
Spiked Amount 50.000			Recovery	=	125.28%	
35) TOLUENE-d8	9.51	98	6583738	50.91	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.82%	
55) BROMOFLUOROBENZENE	13.86	95	3339247	51.72	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	103.44%	
Target Compounds						
4) Vinyl_Chloride	1.92	62	996424	52.32	ug/l	91
12) trans-1,2-Dichloroethene	3.53	96	267357	24.28	ug/l	94
18) cis-1,2-Dichloroethene	5.05	96	6219293	312.09	ug/l	91

(#) = qualifier out of range (m) = manual integration

V0204014.D VOL.M Thu Feb 05 06:42:03 2009

Quantitation Report

Data File : C:\HPCHEM\2\DATA\V020409\V0204014.D

Vial: 14

Acq On : 4 Feb 09 8:15 pm

Operator: Stan Hunnicutt

Sample : w09-0107 5ml

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 5 6:41 19109

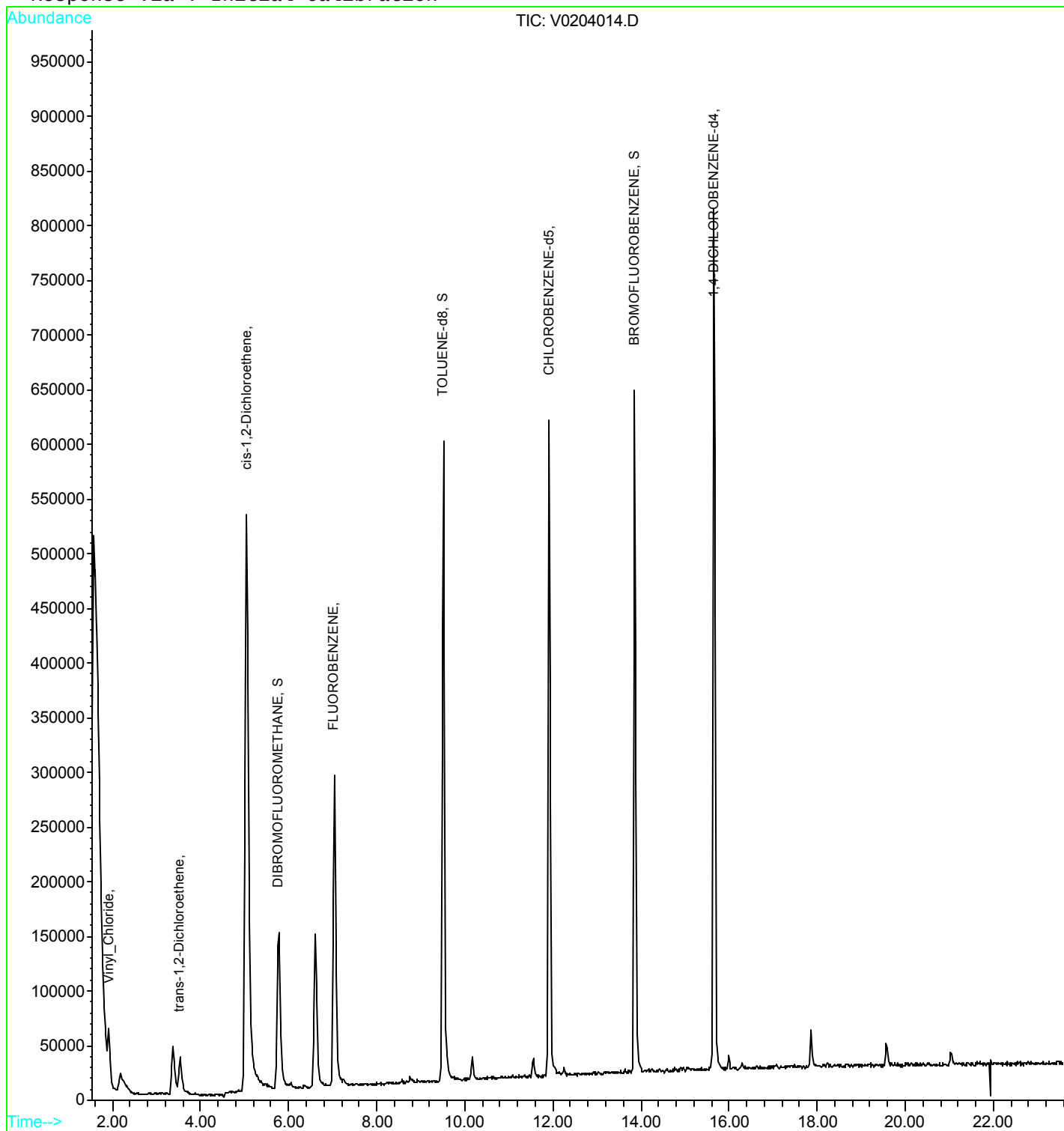
Quant Results File: VOL.RES

Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V020409\V0204015.D

Vial: 15

Acq On : 4 Feb 09 8:45 pm

Operator: Stan Hunnicutt

Sample : w09-0107msv 5ml

Inst : GC/MS Ins

Misc : VOL196 25ul

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 4 21:09 19109

Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration

DataAcq Meth : VOL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	7.04	96	5214453	50.00	ug/l	0.00
46) CHLOROBENZENE-d5	11.92	117	6074903	50.00	ug/l	-0.02
69) 1,4-DICHLOROBENZENE-d4	15.67	152	3628044	50.00	ug/l	-0.03

System Monitoring Compounds

23) DIBROMOFLUOROMETHANE	5.76	113	1734728	55.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.78%	
35) TOLUENE-d8	9.51	98	6624057	51.87	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	103.74%	
55) BROMOFLUOROBENZENE	13.87	95	3419250	54.03	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	108.06%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.69	85	872858	20.13	ug/l	98
3) Chloromethane	1.85	50	799841	32.13	ug/l	95
4) Vinyl_Chloride	1.91	62	1757994	93.47	ug/l	91
5) Bromomethane	2.14	94	346368	52.65	ug/l	95
6) Chloroethane	2.21	64	185858	74.78	ug/l	97
7) Trichlorofluoromethane	2.30	101	456965	89.69	ug/l	96
8) 1,1-Dichloroethene	2.77	96	506062	63.88	ug/l	95
9) Carbon Disulfide	2.80	76	1359698	55.85	ug/l #	81
10) Iodomethane	2.91	142	998021	72.97	ug/l	88
11) Acetone	3.47	58	72322	118.42	ug/l	72
12) trans-1,2-Dichloroethene	3.51	96	985486	90.62	ug/l	97
13) n-Hexane	3.58	57	732426	52.18	ug/l	99
14) Methy-tert-butylether(MTBE)	3.68	73	2050501	57.06	ug/l	98
15) 1,1-Dichloroethane	4.26	63	1353998	65.34	ug/l	94
16) Acrylonitrile	4.38	53	187727	59.20	ug/l #	80
17) Vinyl_Acetate	4.64	43	1789384	69.36	ug/l	100
18) cis-1,2-Dichloroethene	5.03	96	6859435	348.51	ug/l	87
19) 2,2-Dichloropropane	5.19	77	2297813	61.93	ug/l	97
20) Bromochloromethane	5.35	128	725234	53.48	ug/l	86
21) Chloroform	5.47	83	2798674	58.64	ug/l	96
22) Carbon_Tetrachloride	5.65	117	2894935	71.71	ug/l	98
24) 1,1,1-Trichloroethane	5.77	97	2922734	61.47	ug/l	99
25) 2-Butanone	6.05	72	297215	93.79	ug/l	74
26) 1,1-Dichloropropene	5.97	75	2156643	53.89	ug/l	97
27) Benzene	6.36	78	5083127	46.83	ug/l	100
28) 1,2-Dichloroethane	6.71	62	2853441	64.66	ug/l	95
29) Trichloroethene	7.29	95	1739533	55.16	ug/l	94
30) Dibromomethane	7.95	93	1208402	54.26	ug/l #	81

(#)= qualifier out of range (m)= manual integration

V0204015.D VOL.M

Thu Feb 05 06:43:13 2009

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V020409\V0204015.D

Vial: 15

Acq On : 4 Feb 09 8:45 pm

Operator: Stan Hunnicutt

Sample : w09-0107msv 5ml

Inst : GC/MS Ins

Misc : VOL196 25ul

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 4 21:09 19109

Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration

DataAcq Meth : VOL

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
31) 1,2-Dichloropropane	8.12	63	1678701	51.19	ug/l	97
32) Bromodichloromethane	8.23	83	3139446	59.73	ug/l	99
33) 2-Chloroethylvinylether	9.59	63	824911	60.60	ug/l #	97
34) cis-1,3-Dichloropropene	9.23	75	3382517	51.51	ug/l	94
36) Toluene	9.59	92	4706945	46.56	ug/l	98
37) Tetrachloroethene	10.17	164	2248703	40.21	ug/l	96
38) 4-Methyl-2-pentanone	10.26	100	677679	87.48	ug/l	85
39) trans-1,3-Dichloropropene	10.27	75	3134424	52.20	ug/l	97
40) 1,1,2-Trichloroethane	10.51	83	1370115	48.40	ug/l	97
41) Ethyl_methacrylate	10.59	69	1156713	45.04	ug/l	95
42) Dibromochloromethane	10.76	129	2890109	56.05	ug/l	100
43) 1,3-Dichloropropane	10.92	76	3372555	49.60	ug/l	100
44) 1,2-Dibromoethane	11.10	107	2149504	50.25	ug/l #	98
45) 2-Hexanone	11.57	43	3245142	87.92	ug/l	94
47) Chlorobenzene	11.95	112	6306587	47.18	ug/l	99
48) Ethylbenzene	12.02	91	9868661	47.34	ug/l	98
49) 1,1,1,2-Tetrachloroethane	12.06	131	2704025	50.30	ug/l	95
50) Xylene,m+p	12.26	106	7460386	84.93	ug/l	93
51) Xylene,o	12.93	106	4417980	47.54	ug/l	98
52) Styrene	13.02	104	6801425	46.10	ug/l	90
53) Bromoform	13.02	173	1856161	46.33	ug/l	98
54) Isopropylbenzene	13.44	105	11473965	49.47	ug/l	96
56) Bromobenzene	14.01	156	3055813	45.28	ug/l	91
57) n-Propylbenzene	14.10	91	12719413	49.43	ug/l	97
58) 1,1,2,2-Tetrachloroethane	14.23	83	2323510	44.37	ug/l	99
59) 2-Chlorotoluene	14.32	91	7591111	51.85	ug/l	99
60) 1,3,5-Trimethylbenzene	14.44	105	8978665	50.93	ug/l	100
61) 1,2,3-Trichloropropane	14.60	75	261100	46.52	ug/l	100
62) trans-1,4-Dichloro-2-buten	14.52	53	745386	49.28	ug/l	92
63) 4-Chlorotoluene	14.60	91	7860014	52.16	ug/l	99
64) tert-Butylbenzene	14.94	119	9827670	49.05	ug/l	91
65) 1,2,4-Trimethylbenzene	15.06	105	9447329	51.45	ug/l	97
66) sec-Butylbenzene	15.22	105	12982807	49.00	ug/l	94
67) 4-Isopropyltoluene	15.48	119	10827171	47.97	ug/l	97
68) 1,3-Dichlorobenzene	15.54	146	5623107	45.07	ug/l	97
70) 1,4-Dichlorobenzene	15.69	146	5666539	45.84	ug/l	96
71) n-Butylbenzene	16.16	91	9756919	51.93	ug/l	97
72) 1,2-Dichlorobenzene	16.38	146	5423966	46.10	ug/l	97
73) 1,2-Dibromo-3-chloropropan	17.71	75	443074	48.10	ug/l	79
74) Hexachlorobutadiene	18.83	225	2108741	43.92	ug/l	99
75) 1,2,4-Trichlorobenzene	18.86	180	4318615	44.35	ug/l	100

(#)= qualifier out of range (m) = manual integration

V0204015.D VOL.M

Thu Feb 05 06:43:14 2009

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V020409\V0204015.D Vial: 15
Acq On : 4 Feb 09 8:45 pm Operator: Stan Hunnicutt
Sample : w09-0107msv 5ml Inst : GC/MS Ins
Misc : VOL196 25ul Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Feb 4 21:09 19109 Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)
Title : GCMS VOC Method 8260
Last Update : Tue Jan 27 12:47:25 2009
Response via : Initial Calibration
DataAcq Meth : VOL

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
76) Naphthalene	19.41	128	8195812	41.36 ug/l	100
77) 1,2,3-Trichlorobenzene	19.72	180	3721062	41.38 ug/l	98

Quantitation Report

Data File : C:\HPCHEM\2\DATA\V020409\V0204015.D

Vial: 15

Acq On : 4 Feb 09 8:45 pm

Operator: Stan Hunnicutt

Sample : w09-0107msv 5ml

Inst : GC/MS Ins

Misc : VOL196 25ul

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 4 21:09 19109

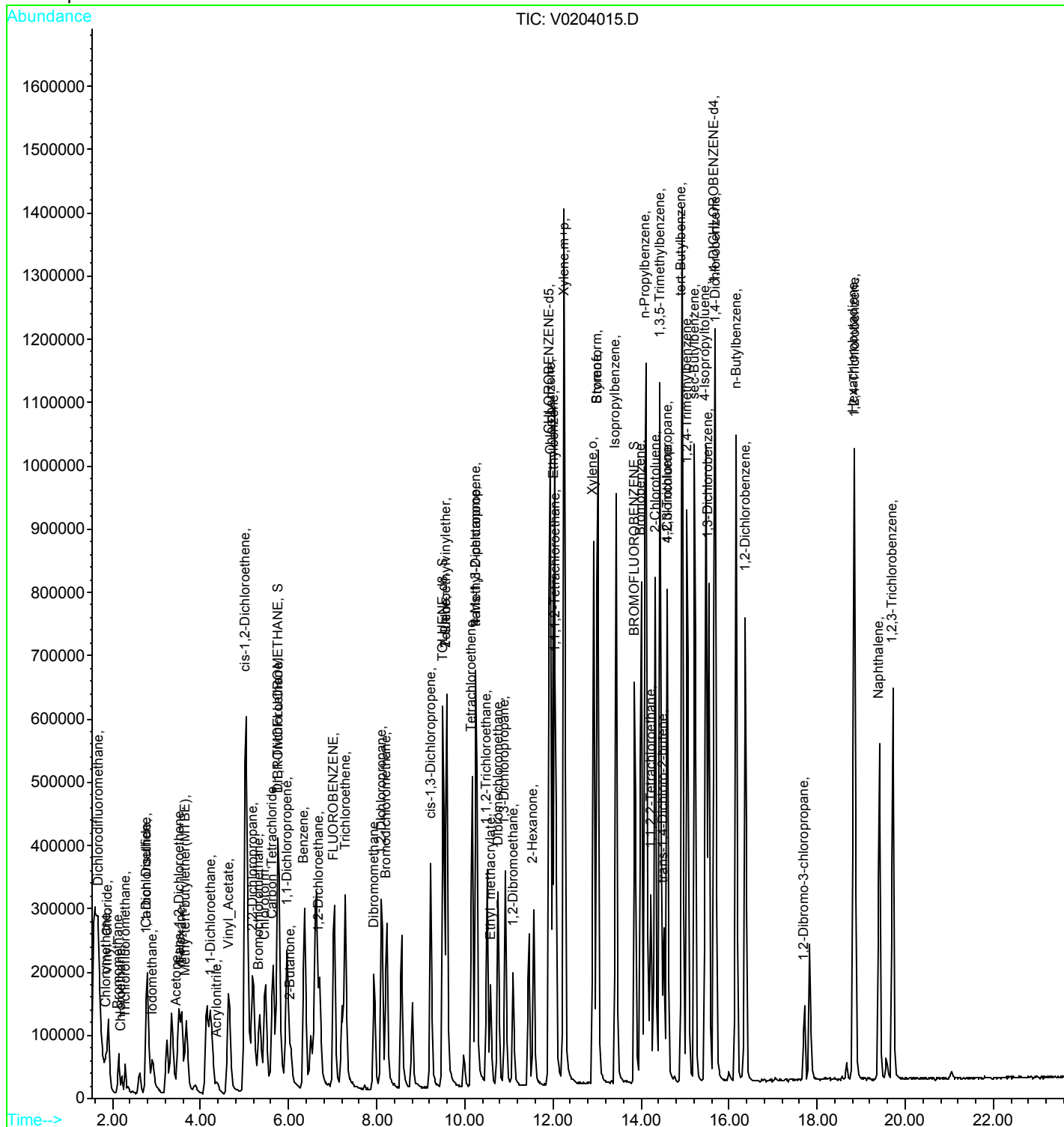
Quant Results File: VOL.RES

Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration



Data File : C:\HPCHEM\2\DATA\V020409\V0204016.D

Vial: 16

Acq On : 4 Feb 09 9:15 pm

Operator: Stan Hunnicutt

Sample : w09-0107msdv 5ml

Inst : GC/MS Ins

Misc : VOL196 25ul

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 4 21:39 19109

Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration

DataAcq Meth : VOL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	7.04	96	5318755	50.00	ug/l	0.00
46) CHLOROBENZENE-d5	11.92	117	6021513	50.00	ug/l	-0.02
69) 1,4-DICHLOROBENZENE-d4	15.67	152	3515275	50.00	ug/l	-0.03

System Monitoring Compounds

23) DIBROMOFLUOROMETHANE	5.76	113	1806502	57.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.12%	
35) TOLUENE-d8	9.51	98	6790002	52.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.24%	
55) BROMOFLUOROBENZENE	13.87	95	3279537	52.28	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	104.56%	

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.69	85	855180	19.34 ug/l	98
3) Chloromethane	1.85	50	902170	35.53 ug/l	99
4) Vinyl_Chloride	1.91	62	1837623	95.79 ug/l	97
5) Bromomethane	2.14	94	378141	56.35 ug/l	97
6) Chloroethane	2.21	64	186555	73.46 ug/l	99
7) Trichlorofluoromethane	2.30	101	455366	87.18 ug/l	97
8) 1,1-Dichloroethene	2.77	96	502789	62.22 ug/l	96
9) Carbon Disulfide	2.80	76	1345240	54.17 ug/l #	81
10) Iodomethane	2.91	142	830816	59.55 ug/l #	87
11) Acetone	3.47	58	71634	115.00 ug/l	66
12) trans-1,2-Dichloroethene	3.52	96	920593	82.99 ug/l	96
13) n-Hexane	3.58	57	759734	53.07 ug/l	96
14) Methy-tert-butylether(MTBE)	3.68	73	2045404	55.81 ug/l	95
15) 1,1-Dichloroethane	4.26	63	1331395	62.99 ug/l	99
16) Acrylonitrile	4.38	53	205686	63.86 ug/l #	77
17) Vinyl_Acetate	4.64	43	2476024	94.09 ug/l	100
18) cis-1,2-Dichloroethene	5.03	96	7222187	359.73 ug/l	91
19) 2,2-Dichloropropane	5.20	77	2399989	63.42 ug/l	100
20) Bromochloromethane	5.35	128	808473	58.45 ug/l	92
21) Chloroform	5.48	83	2998130	61.59 ug/l	95
22) Carbon_Tetrachloride	5.65	117	2981860	72.42 ug/l	99
24) 1,1,1-Trichloroethane	5.78	97	3036608	62.62 ug/l	99
25) 2-Butanone	6.04	72	295813	91.52 ug/l	83
26) 1,1-Dichloropropene	5.97	75	2297303	56.28 ug/l	98
27) Benzene	6.37	78	5405030	48.82 ug/l	100
28) 1,2-Dichloroethane	6.71	62	2892767	64.27 ug/l	97
29) Trichloroethene	7.29	95	1746948	54.28 ug/l	93
30) Dibromomethane	7.95	93	1269603	55.89 ug/l	84

(#)= qualifier out of range (m) = manual integration

V0204016.D VOL.M Thu Feb 05 06:44:00 2009

Data File : C:\HPCHEM\2\DATA\V020409\V0204016.D

Vial: 16

Acq On : 4 Feb 09 9:15 pm

Operator: Stan Hunnicutt

Sample : w09-0107msdv 5ml

Inst : GC/MS Ins

Misc : VOL196 25ul

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 4 21:39 19109

Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration

DataAcq Meth : VOL

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
31) 1,2-Dichloropropane	8.12	63	1641209	49.07	ug/l	99
32) Bromodichloromethane	8.23	83	3117813	58.16	ug/l	98
33) 2-Chloroethylvinylether	9.59	63	810386	58.36	ug/l #	95
34) cis-1,3-Dichloropropene	9.23	75	3551875	53.03	ug/l	97
36) Toluene	9.59	92	4802279	46.58	ug/l	95
37) Tetrachloroethene	10.17	164	2277088	39.92	ug/l	94
38) 4-Methyl-2-pentanone	10.26	100	720199	91.15	ug/l	86
39) trans-1,3-Dichloropropene	10.27	75	3196610	52.19	ug/l	97
40) 1,1,2-Trichloroethane	10.51	83	1404025	48.63	ug/l	97
41) Ethyl_methacrylate	10.59	69	1221022	46.61	ug/l	97
42) Dibromochloromethane	10.76	129	2891671	54.98	ug/l	98
43) 1,3-Dichloropropane	10.92	76	3536378	50.99	ug/l	100
44) 1,2-Dibromoethane	11.10	107	2207678	50.59	ug/l	98
45) 2-Hexanone	11.57	43	3086331	81.98	ug/l	99
47) Chlorobenzene	11.95	112	6473329	48.86	ug/l	100
48) Ethylbenzene	12.02	91	10373554	50.21	ug/l	100
49) 1,1,1,2-Tetrachloroethane	12.07	131	2673378	50.17	ug/l	97
50) Xylene,m+p	12.26	106	7485318	85.97	ug/l	95
51) Xylene,o	12.93	106	4457712	48.39	ug/l	99
52) Styrene	13.02	104	6748318	46.15	ug/l	91
53) Bromoform	13.02	173	1838978	46.30	ug/l	100
54) Isopropylbenzene	13.44	105	11685824	50.83	ug/l	97
56) Bromobenzene	14.01	156	3091027	46.20	ug/l	91
57) n-Propylbenzene	14.10	91	13081243	51.29	ug/l	97
58) 1,1,2,2-Tetrachloroethane	14.23	83	2355593	45.39	ug/l	99
59) 2-Chlorotoluene	14.33	91	7634474	52.61	ug/l	98
60) 1,3,5-Trimethylbenzene	14.44	105	9005190	51.53	ug/l	100
61) 1,2,3-Trichloropropane	14.60	75	262550	47.19	ug/l	100
62) trans-1,4-Dichloro-2-buten	14.52	53	840008	56.03	ug/l	86
63) 4-Chlorotoluene	14.60	91	7955349	53.26	ug/l	100
64) tert-Butylbenzene	14.94	119	10235369	51.54	ug/l	91
65) 1,2,4-Trimethylbenzene	15.06	105	9546553	52.45	ug/l	97
66) sec-Butylbenzene	15.23	105	13463191	51.26	ug/l	95
67) 4-Isopropyltoluene	15.48	119	11311433	50.56	ug/l	97
68) 1,3-Dichlorobenzene	15.54	146	5672776	45.88	ug/l	97
70) 1,4-Dichlorobenzene	15.70	146	5755801	48.05	ug/l	98
71) n-Butylbenzene	16.16	91	10177849	55.91	ug/l	98
72) 1,2-Dichlorobenzene	16.38	146	5449419	47.80	ug/l	97
73) 1,2-Dibromo-3-chloropropan	17.71	75	452702	50.72	ug/l	84
74) Hexachlorobutadiene	18.83	225	2298023	49.40	ug/l	100
75) 1,2,4-Trichlorobenzene	18.86	180	4480493	47.49	ug/l	100

(#)= qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V020409\V0204016.D Vial: 16
Acq On : 4 Feb 09 9:15 pm Operator: Stan Hunnicutt
Sample : w09-0107msdv 5ml Inst : GC/MS Ins
Misc : VOL196 25ul Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Feb 4 21:39 19109 Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)
Title : GCMS VOC Method 8260
Last Update : Tue Jan 27 12:47:25 2009
Response via : Initial Calibration
DataAcq Meth : VOL

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
76) Naphthalene	19.41	128	8437308	43.95 ug/l	100
77) 1,2,3-Trichlorobenzene	19.72	180	3975278	45.62 ug/l	99

Quantitation Report

Data File : C:\HPCHEM\2\DATA\V020409\V0204016.D

Vial: 16

Acq On : 4 Feb 09 9:15 pm

Operator: Stan Hunnicutt

Sample : w09-0107msdv 5ml

Inst : GC/MS Ins

Misc : VOL196 25ul

Multiplr: 1.00

MS Integration Params: events.e

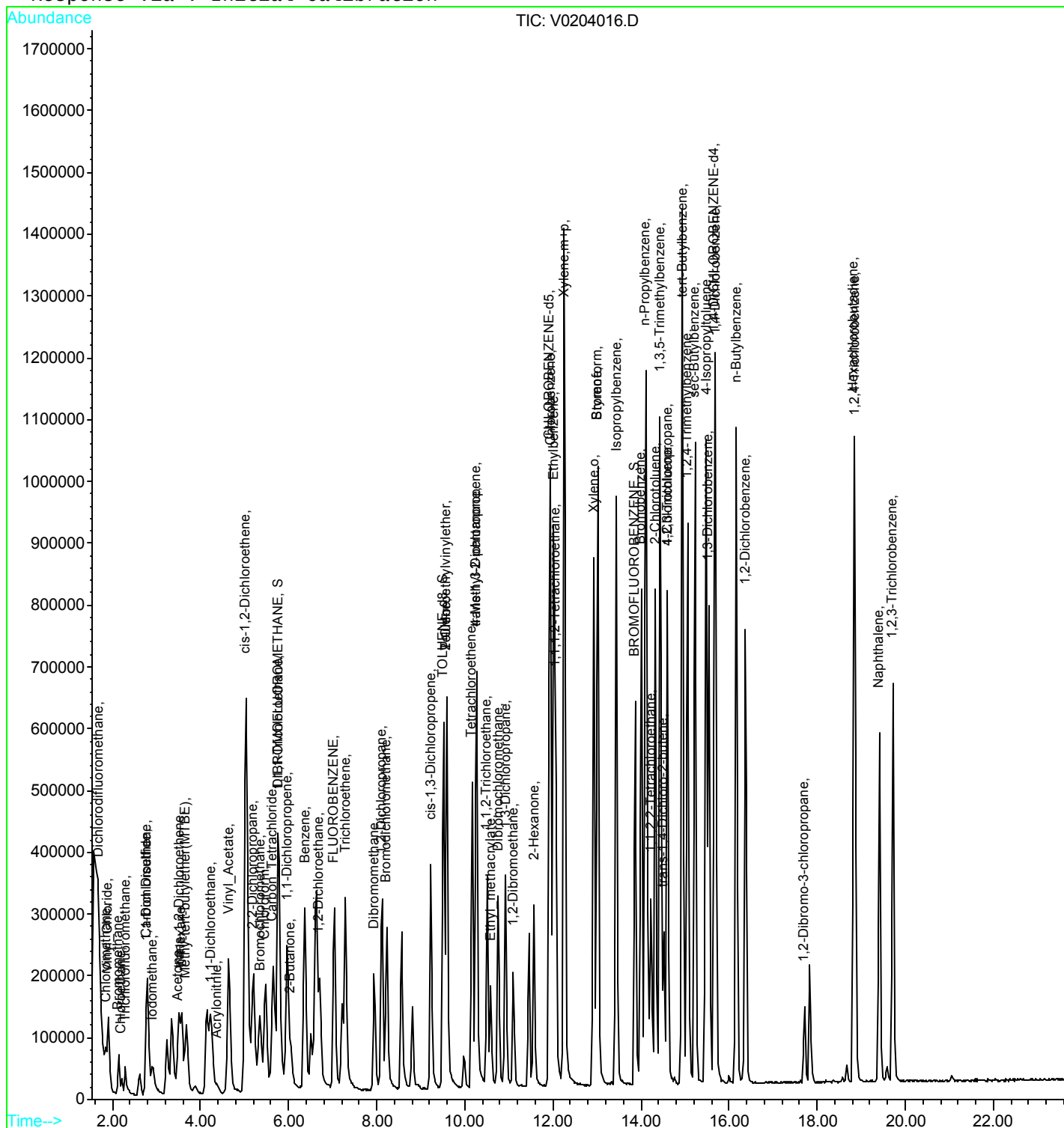
Quant Results File: VOL.RES

Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V020409\V0204017.D

Vial: 1

Acq On : 4 Feb 09 9:45 pm

Operator: Stan Hunnicutt

Sample : s09-0095 5.01g/5ml H2O

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 5 6:44 19109

Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration

DataAcq Meth : VOL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	7.06	96	2487332	50.00	ug/l	0.02
46) CHLOROBENZENE-d5	11.93	117	1852390	50.00	ug/l	-0.01
69) 1,4-DICHLOROBENZENE-d4	15.67	152	596656	50.00	ug/l	-0.03
System Monitoring Compounds						
23) DIBROMOFLUOROMETHANE	5.79	113	979500	66.15	ug/l	0.02
Spiked Amount	50.000		Recovery	=	132.30%	
35) TOLUENE-d8	9.52	98	2748112	45.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.22%	
55) BROMOFLUOROBENZENE	13.87	95	774795	40.15	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	80.30%	
Target Compounds						
37) Tetrachloroethene	10.18	164	7247010	271.68	ug/l	Qvalue 93

(#) = qualifier out of range (m) = manual integration

V0204017.D VOL.M Thu Feb 05 06:44:52 2009

Quantitation Report

Data File : C:\HPCHEM\2\DATA\V020409\V0204017.D

Vial: 1

Acq On : 4 Feb 09 9:45 pm

Operator: Stan Hunnicutt

Sample : s09-0095 5.01g/5ml H2O

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 5 6:44 19109

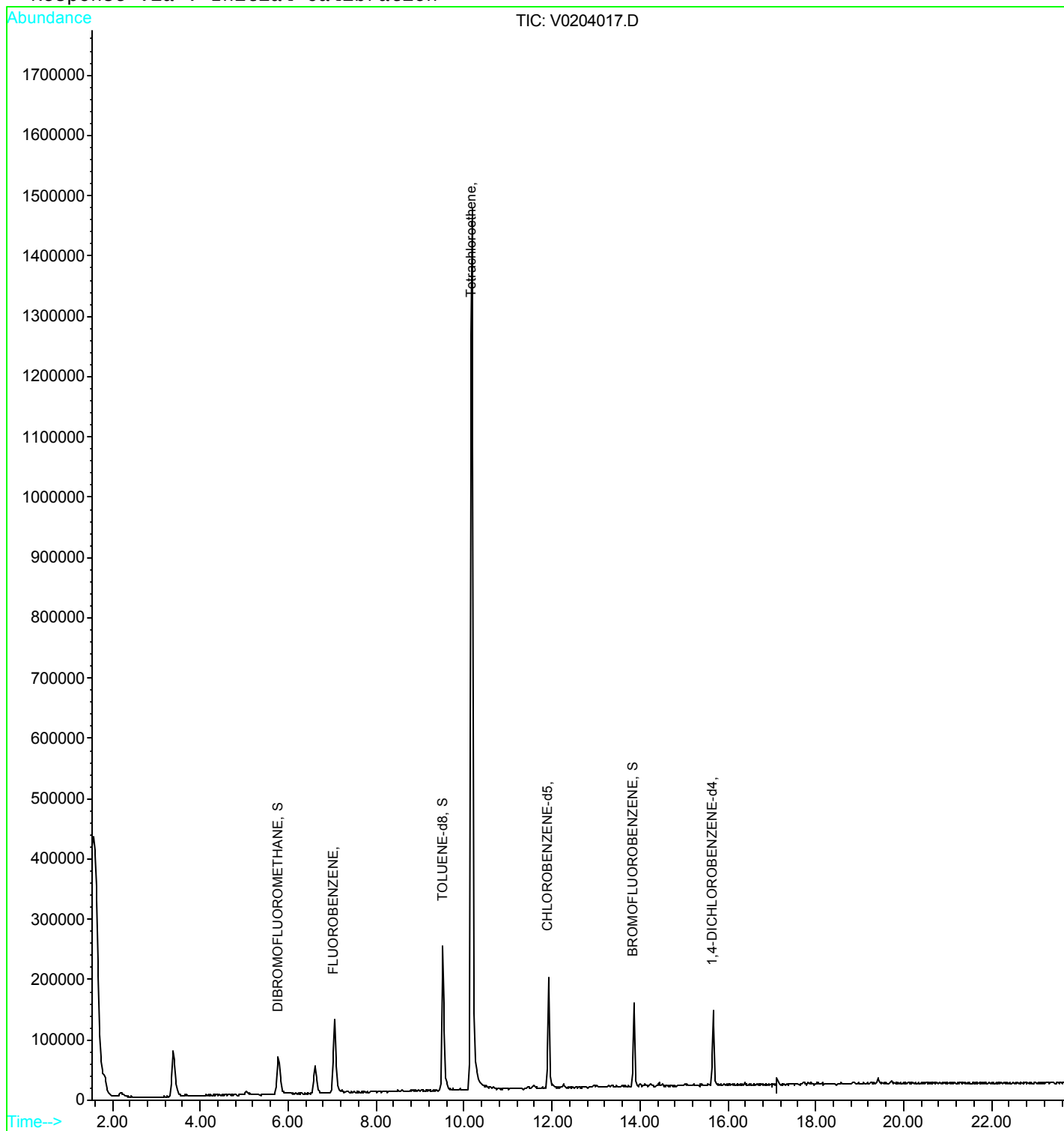
Quant Results File: VOL.RES

Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V020409\V0204018.D Vial: 2
Acq On : 4 Feb 09 10:14 pm Operator: Stan Hunnicutt
Sample : s09-0101 5.00g/5ml H2O Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Feb 5 6:45 19109 Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)
Title : GCMS VOC Method 8260
Last Update : Tue Jan 27 12:47:25 2009
Response via : Initial Calibration
DataAcq Meth : VOL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	7.04	96	4805989	50.00	ug/l	0.00
46) CHLOROBENZENE-d5	11.92	117	5153011	50.00	ug/l	-0.01
69) 1,4-DICHLOROBENZENE-d4	15.67	152	2576165	50.00	ug/l	-0.03
System Monitoring Compounds						
23) DIBROMOFLUOROMETHANE	5.77	113	1951286	68.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	136.40%	
35) TOLUENE-d8	9.52	98	6124456	52.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.06%	
55) BROMOFLUOROBENZENE	13.87	95	2550322	47.51	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	95.02%	
Target Compounds						
37) Tetrachloroethene	10.17	164	456080	8.85	ug/l	Qvalue # 90

(#) = qualifier out of range (m) = manual integration

V0204018.D VOL.M Thu Feb 05 06:45:35 2009

Quantitation Report

Data File : C:\HPCHEM\2\DATA\V020409\V0204018.D

Vial: 2

Acq On : 4 Feb 09 10:14 pm

Operator: Stan Hunnicutt

Sample : s09-0101 5.00g/5ml H2O

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 5 6:45 19109

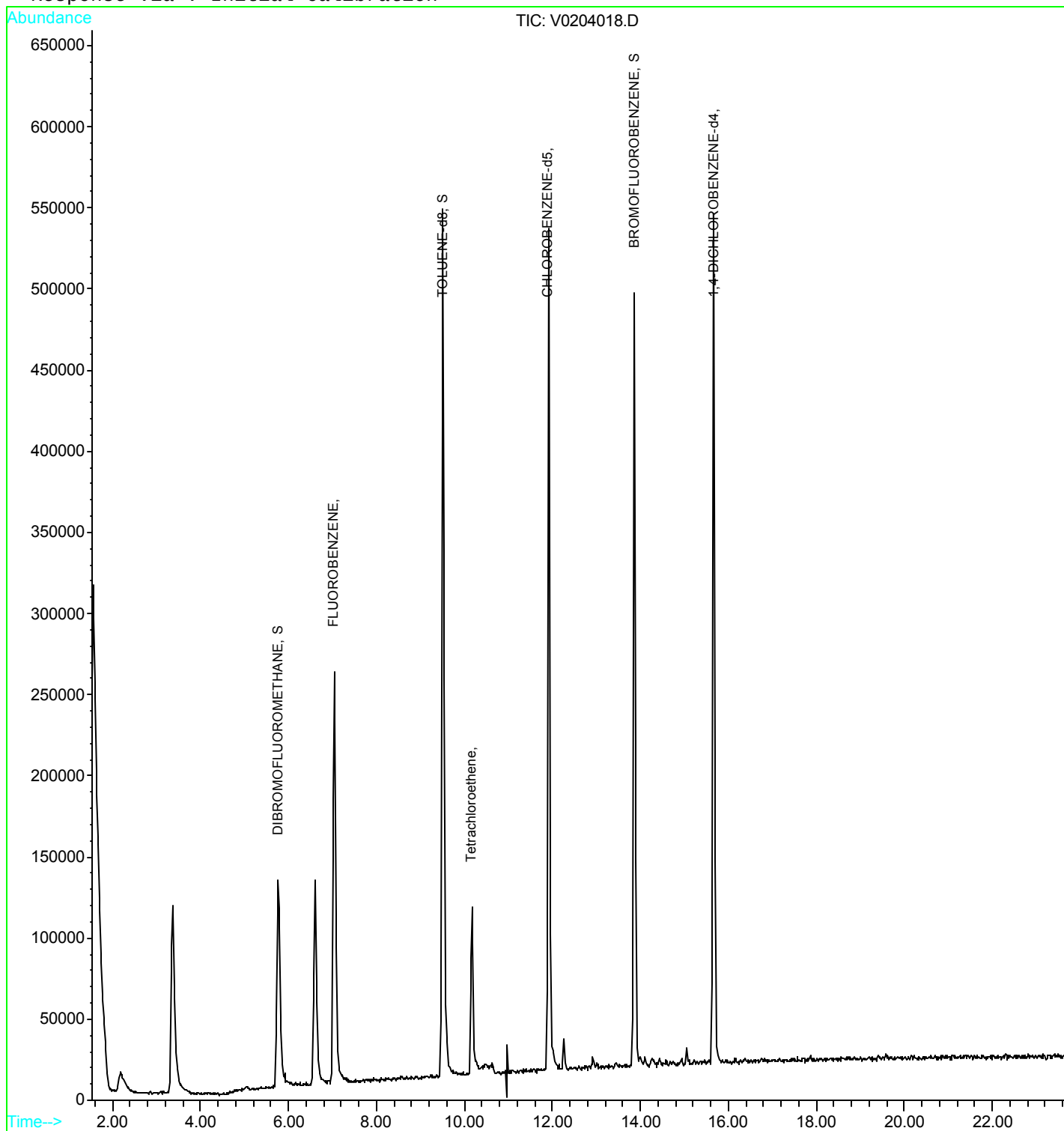
Quant Results File: VOL.RES

Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V020409\V0204019.D Vial: 3
Acq On : 4 Feb 09 10:44 pm Operator: Stan Hunnicutt
Sample : s09-0102 5.16g/5ml H2O Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Feb 5 6:46 19109 Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)
Title : GCMS VOC Method 8260
Last Update : Tue Jan 27 12:47:25 2009
Response via : Initial Calibration
DataAcq Meth : VOL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	7.05	96	4447450	50.00	ug/l	0.01
46) CHLOROBENZENE-d5	11.93	117	5273464	50.00	ug/l	-0.01
69) 1,4-DICHLOROBENZENE-d4	15.67	152	2752603	50.00	ug/l	-0.03

System Monitoring Compounds

23) DIBROMOFLUOROMETHANE	5.78	113	1751430	66.15	ug/l	0.02
Spiked Amount	50.000		Recovery	=	132.30%	
35) TOLUENE-d8	9.52	98	5871632	53.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.80%	
55) BROMOFLUOROBENZENE	13.87	95	2676958	48.73	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	97.46%	

Target Compounds

Qvalue

Quantitation Report

Data File : C:\HPCHEM\2\DATA\V020409\V0204019.D

Vial: 3

Acq On : 4 Feb 09 10:44 pm

Operator: Stan Hunnicutt

Sample : s09-0102 5.16g/5ml H2O

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 5 6:46 19109

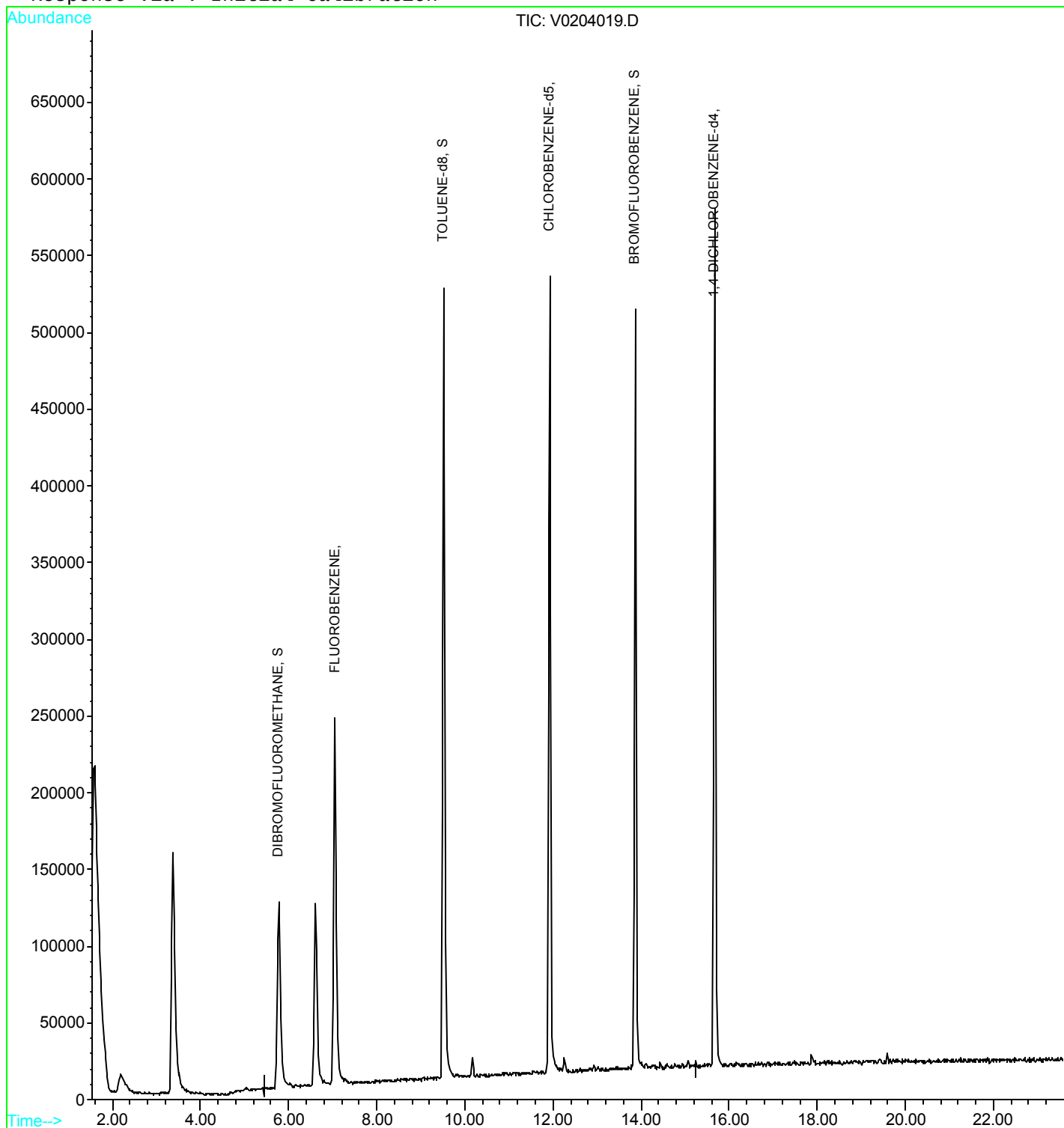
Quant Results File: VOL.RES

Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V020409\V0204021.D Vial: 5
Acq On : 4 Feb 09 11:43 pm Operator: Stan Hunnicutt
Sample : s09-0104 5.14g/5ml H2O Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Feb 5 6:50 19109 Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)
Title : GCMS VOC Method 8260
Last Update : Tue Jan 27 12:47:25 2009
Response via : Initial Calibration
DataAcq Meth : VOL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	7.05	96	3580997	50.00	ug/l	0.01
46) CHLOROBENZENE-d5	11.93	117	3433833	50.00	ug/l	-0.01
69) 1,4-DICHLOROBENZENE-d4	15.67	152	1153494	50.00	ug/l	-0.03
System Monitoring Compounds						
23) DIBROMOFLUOROMETHANE	5.78	113	1481421	69.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	138.98%	
35) TOLUENE-d8	9.52	98	4296802	48.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.98%	
55) BROMOFLUOROBENZENE	13.87	95	1465525	40.97	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	81.94%	
Target Compounds						
37) Tetrachloroethene	10.17	164	634055	16.51	ug/l	Qvalue 97

Quantitation Report

Data File : C:\HPCHEM\2\DATA\V020409\V0204021.D

Vial: 5

Acq On : 4 Feb 09 11:43 pm

Operator: Stan Hunnicutt

Sample : s09-0104 5.14g/5ml H2O

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 5 6:50 19109

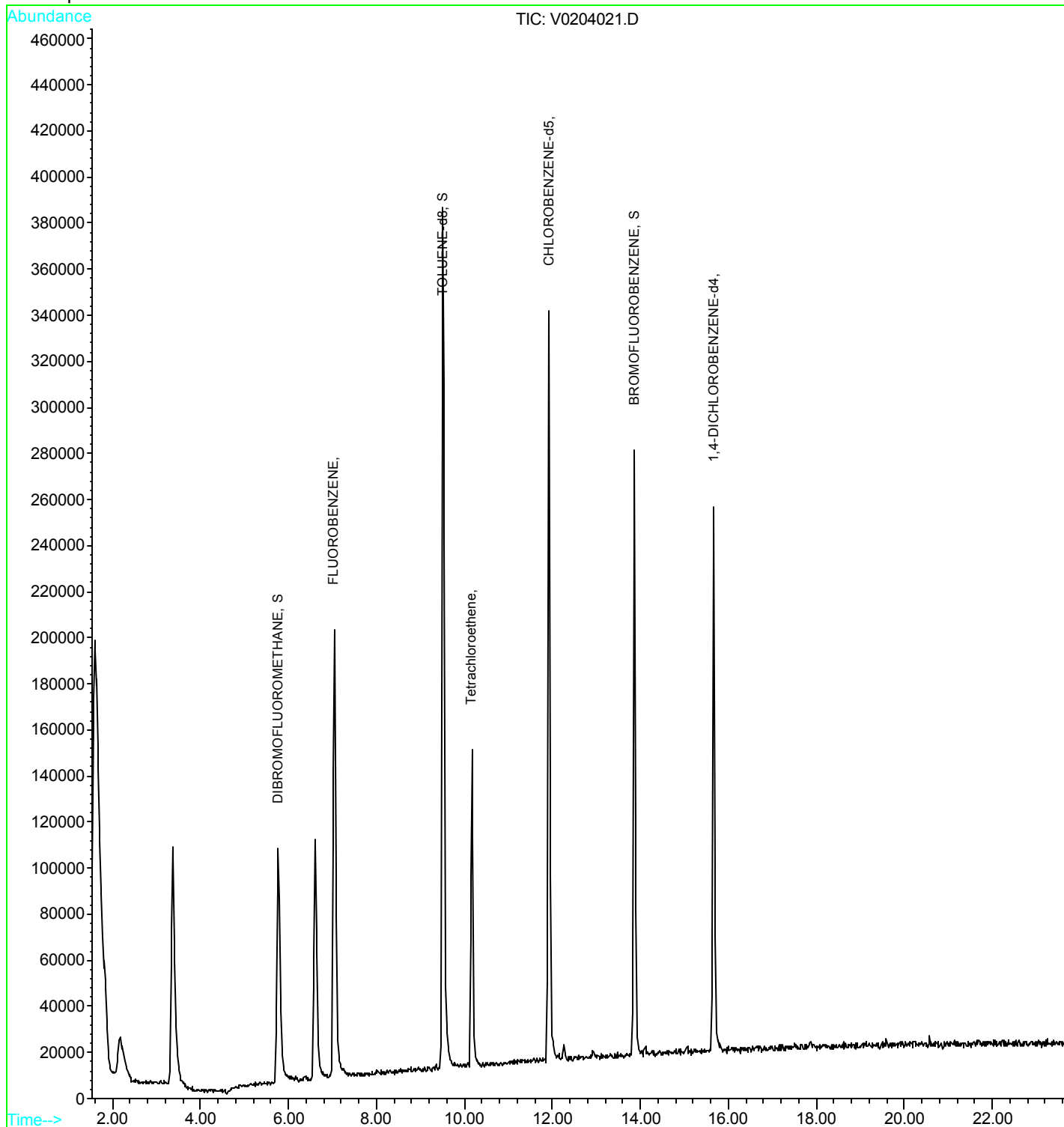
Quant Results File: VOL.RES

Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration



BFB

Data File : C:\HPCHEM\2\DATA\V020409\V0204022.D

Vial: 6

Acq On : 5 Feb 09 12:12 am

Operator: Stan Hunnicutt

Sample : CCV VOC

Inst : GC/MS Ins

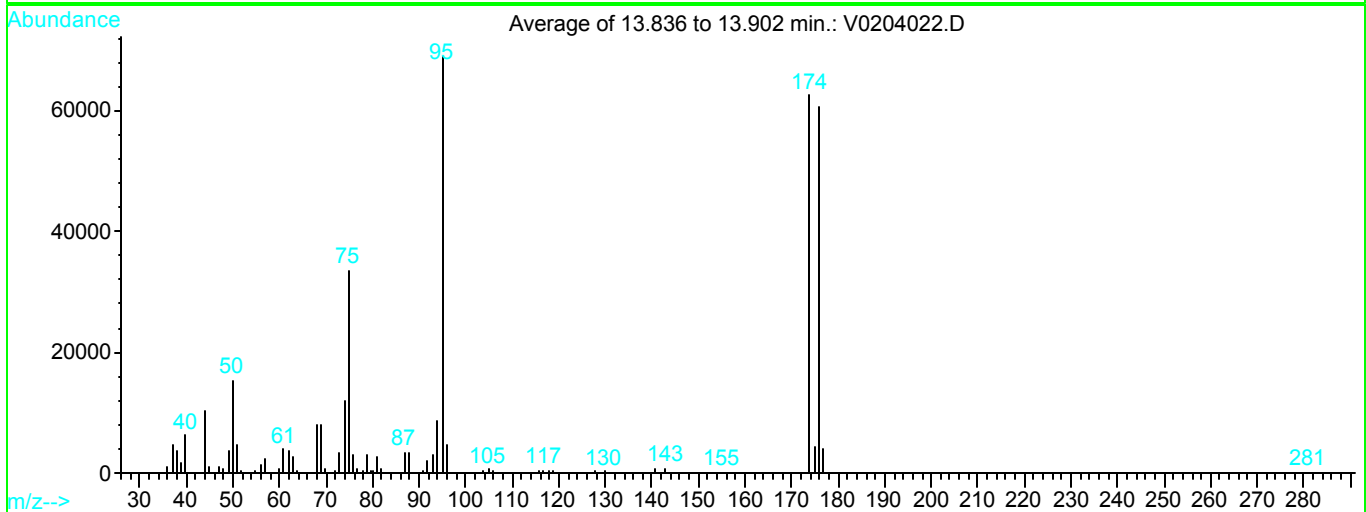
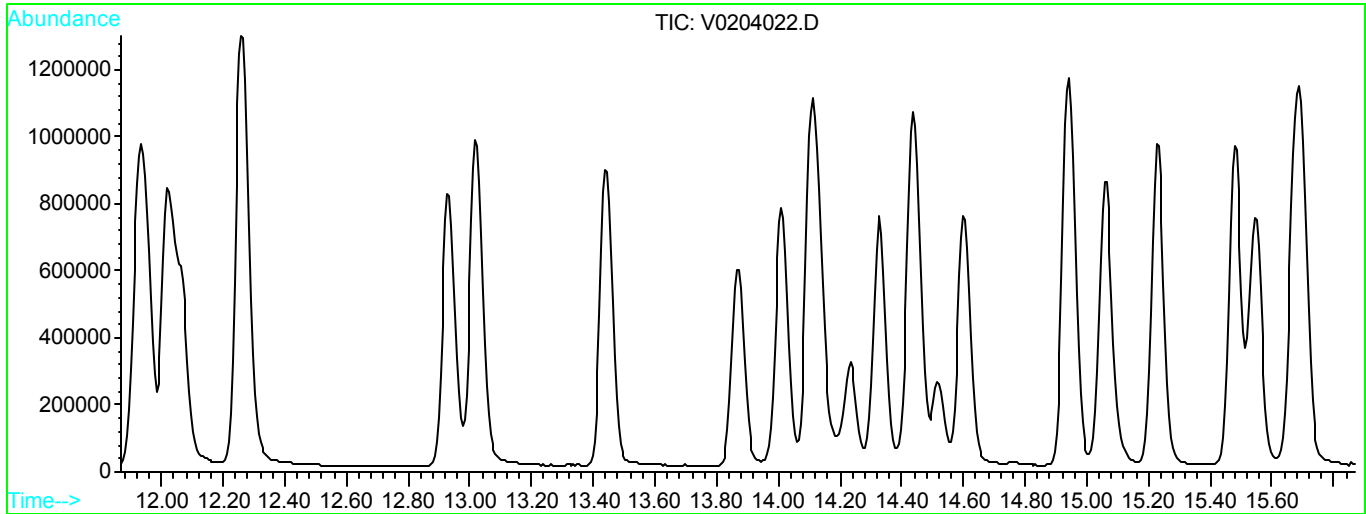
Misc : VOL196 25ul

Multiplr: 1.00

MS Integration Params: events.e

Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260



Spectrum Information: Average of 13.836 to 13.902 min.

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	22.3	15362	PASS
75	95	30	60	48.7	33450	PASS
95	95	100	100	100.0	68746	PASS
96	95	5	9	6.8	4684	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	91.0	62542	PASS
175	174	5	9	6.8	4227	PASS
176	174	95	101	96.7	60476	PASS
177	176	5	9	6.7	4070	PASS

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V020409\V0204022.D

Vial: 6

Acq On : 5 Feb 09 12:12 am

Operator: Stan Hunnicutt

Sample : CCV VOC

Inst : GC/MS Ins

Misc : VOL196 25ul

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 5 0:36 19109

Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration

DataAcq Meth : VOL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	7.04	96	4675448	50.00	ug/l	0.00
46) CHLOROBENZENE-d5	11.93	117	5790344	50.00	ug/l	-0.01
69) 1,4-DICHLOROBENZENE-d4	15.68	152	3385164	50.00	ug/l	-0.02

System Monitoring Compounds

23) DIBROMOFLUOROMETHANE	5.76	113	1588354	57.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.14%	
35) TOLUENE-d8	9.52	98	6291817	54.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.90%	
55) BROMOFLUOROBENZENE	13.87	95	3171785	52.58	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	105.16%	

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.68	85	637725	16.41 ug/l	99
3) Chloromethane	1.85	50	710058	31.81 ug/l	99
4) Vinyl_Chloride	1.91	62	568576	33.72 ug/l	92
5) Bromomethane	2.14	94	367000	62.22 ug/l	96
6) Chloroethane	2.21	64	163068	73.00 ug/l	98
7) Trichlorofluoromethane	2.30	101	374749	80.38 ug/l	98
8) 1,1-Dichloroethene	2.77	96	406796	57.27 ug/l	96
9) Carbon Disulfide	2.80	76	1064065	48.75 ug/l #	80
10) Iodomethane	2.92	142	899330	73.33 ug/l	92
11) Acetone	3.46	58	66257	121.00 ug/l	90
12) trans-1,2-Dichloroethene	3.51	96	565650	58.01 ug/l	98
13) n-Hexane	3.59	57	565007	44.90 ug/l	96
14) Methy-tert-butylether(MTBE)	3.68	73	2008052	62.33 ug/l	97
15) 1,1-Dichloroethane	4.25	63	1162997	62.60 ug/l	98
16) Acrylonitrile	4.38	53	196921	69.88 ug/l #	70
17) Vinyl_Acetate	4.65	43	1454338	62.87 ug/l	100
18) cis-1,2-Dichloroethene	5.03	96	1005486	57.34 ug/l	87
19) 2,2-Dichloropropane	5.20	77	1997898	60.06 ug/l	99
20) Bromochloromethane	5.35	128	685890	56.41 ug/l	89
21) Chloroform	5.48	83	2725279	63.68 ug/l	99
22) Carbon_Tetrachloride	5.65	117	2565142	70.87 ug/l	99
24) 1,1,1-Trichloroethane	5.77	97	2634809	61.81 ug/l	98
25) 2-Butanone	6.05	72	274173	96.49 ug/l	92
26) 1,1-Dichloropropene	5.97	75	1815547	50.60 ug/l	97
27) Benzene	6.37	78	4482012	46.05 ug/l	100
28) 1,2-Dichloroethane	6.71	62	2740720	69.27 ug/l #	94
29) Trichloroethene	7.30	95	1571050	55.57 ug/l	90
30) Dibromomethane	7.95	93	1182618	59.22 ug/l	84

(#)= qualifier out of range (m) = manual integration

V0204022.D VOL.M

Thu Feb 05 06:51:39 2009

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V020409\V0204022.D

Vial: 6

Acq On : 5 Feb 09 12:12 am

Operator: Stan Hunnicutt

Sample : CCV VOC

Inst : GC/MS Ins

Misc : VOL196 25ul

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 5 0:36 19109

Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration

DataAcq Meth : VOL

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
31) 1,2-Dichloropropane	8.12	63	1587038	53.97	ug/l	98
32) Bromodichloromethane	8.23	83	2842535	60.32	ug/l	97
33) 2-Chloroethylvinylether	9.60	63	733408	60.09	ug/l #	100
34) cis-1,3-Dichloropropene	9.23	75	3084951	52.40	ug/l	92
36) Toluene	9.59	92	4449757	49.09	ug/l	100
37) Tetrachloroethene	10.17	164	2823285	56.31	ug/l	93
38) 4-Methyl-2-pentanone	10.26	100	737838	106.23	ug/l	87
39) trans-1,3-Dichloropropene	10.27	75	3079565	57.20	ug/l	96
40) 1,1,2-Trichloroethane	10.51	83	1372814	54.09	ug/l	95
41) Ethyl_methacrylate	10.59	69	1227027	53.29	ug/l	96
42) Dibromochloromethane	10.76	129	2791906	60.39	ug/l	100
43) 1,3-Dichloropropane	10.93	76	3379945	55.44	ug/l	99
44) 1,2-Dibromoethane	11.11	107	2148596	56.02	ug/l	98
45) 2-Hexanone	11.57	43	3556733	107.47	ug/l	94
47) Chlorobenzene	11.95	112	6078368	47.71	ug/l	99
48) Ethylbenzene	12.02	91	9512249	47.88	ug/l	100
49) 1,1,1,2-Tetrachloroethane	12.07	131	2557466	49.91	ug/l	99
50) Xylene,m+p	12.27	106	7178758	85.74	ug/l	90
51) Xylene,o	12.93	106	4167622	47.05	ug/l	98
52) Styrene	13.02	104	6466075	45.98	ug/l	90
53) Bromoform	13.02	173	1833324	48.00	ug/l	100
54) Isopropylbenzene	13.44	105	10993406	49.73	ug/l	97
56) Bromobenzene	14.02	156	2973116	46.22	ug/l	90
57) n-Propylbenzene	14.11	91	12196111	49.73	ug/l	97
58) 1,1,2,2-Tetrachloroethane	14.24	83	2438428	48.86	ug/l	98
59) 2-Chlorotoluene	14.33	91	7176647	51.43	ug/l	98
60) 1,3,5-Trimethylbenzene	14.44	105	8488937	50.52	ug/l	100
61) 1,2,3-Trichloropropane	14.60	75	257188	48.07	ug/l	100
62) trans-1,4-Dichloro-2-buten	14.52	53	764005	53.00	ug/l	93
63) 4-Chlorotoluene	14.60	91	7300996	50.83	ug/l	99
64) tert-Butylbenzene	14.94	119	8970302	46.97	ug/l	95
65) 1,2,4-Trimethylbenzene	15.06	105	8792162	50.24	ug/l	98
66) sec-Butylbenzene	15.23	105	12441321	49.26	ug/l	95
67) 4-Isopropyltoluene	15.48	119	10429883	48.48	ug/l	96
68) 1,3-Dichlorobenzene	15.55	146	5364692	45.12	ug/l	97
70) 1,4-Dichlorobenzene	15.70	146	5391603	46.74	ug/l	97
71) n-Butylbenzene	16.17	91	9338132	53.27	ug/l	98
72) 1,2-Dichlorobenzene	16.38	146	5264893	47.96	ug/l	97
73) 1,2-Dibromo-3-chloropropan	17.72	75	459428	53.45	ug/l	81
74) Hexachlorobutadiene	18.84	225	1868436	41.71	ug/l	100
75) 1,2,4-Trichlorobenzene	18.87	180	4015816	44.20	ug/l	99

(#)= qualifier out of range (m) = manual integration

V0204022.D VOL.M

Thu Feb 05 06:51:41 2009

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V020409\V0204022.D Vial: 6
 Acq On : 5 Feb 09 12:12 am Operator: Stan Hunnicutt
 Sample : CCV VOC Inst : GC/MS Ins
 Misc : VOL196 25ul Multiplr: 1.00
 MS Integration Params: events.e
 Quant Time: Feb 5 0:36 19109 Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)
 Title : GCMS VOC Method 8260
 Last Update : Tue Jan 27 12:47:25 2009
 Response via : Initial Calibration
 DataAcq Meth : VOL

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
76) Naphthalene	19.43	128	8337269	45.10 ug/l	100
77) 1,2,3-Trichlorobenzene	19.73	180	3673075	43.77 ug/l	99

Quantitation Report

Data File : C:\HPCHEM\2\DATA\V020409\V0204022.D

Acq On : 5 Feb 09 12:12 am

Sample : CCV VOC

Misc : VOL196 25ul

MS Integration Params: events.e

Quant Time: Feb 5 0:36 19109

Vial: 6

Operator: Stan Hunnicutt

Inst : GC/MS Ins

Multiplr: 1.00

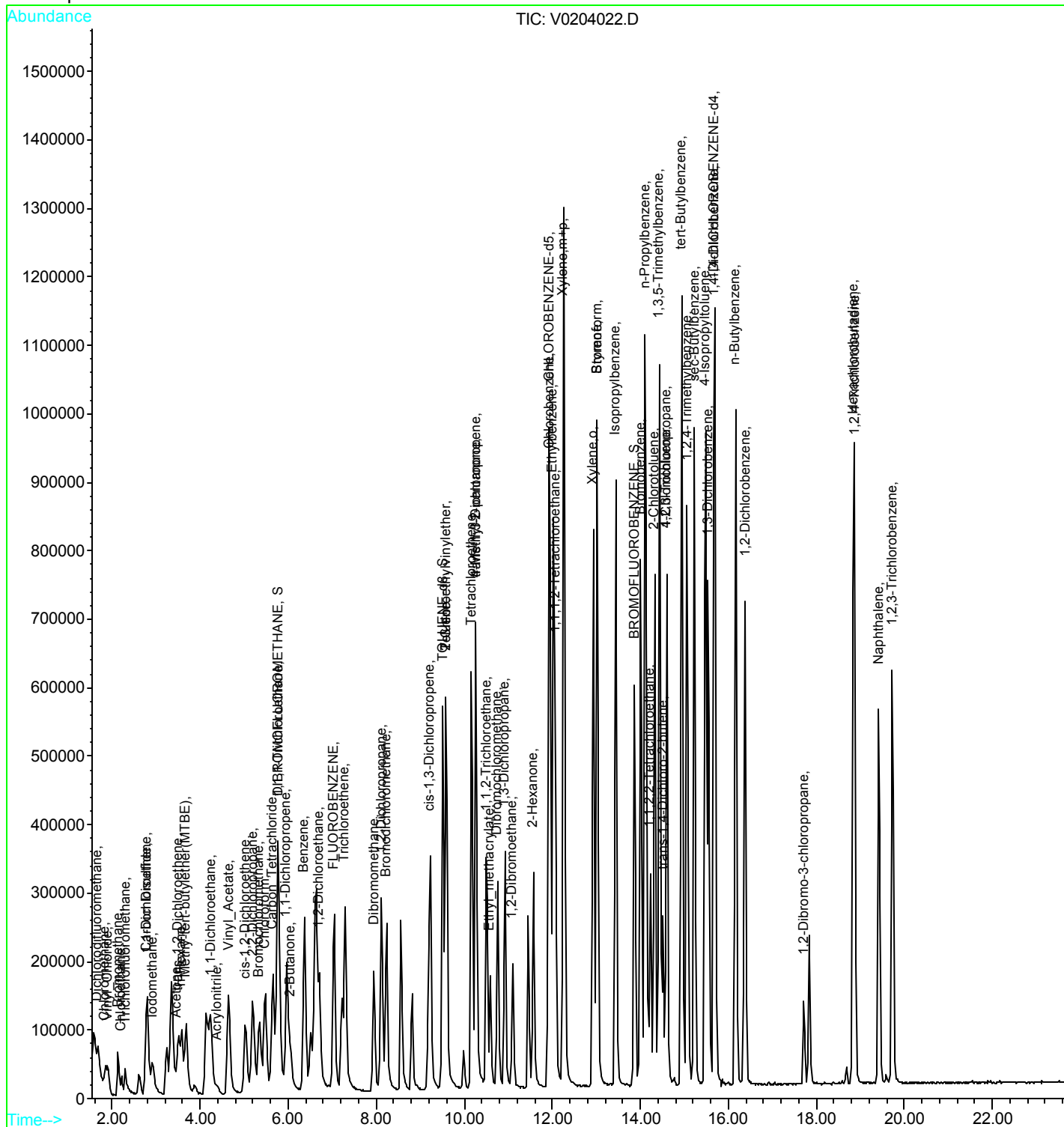
Quant Results File: VOL.RES

Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V020409\V0204023.D

Vial: 7

Acq On : 5 Feb 09 12:41 am

Operator: Stan Hunnicutt

Sample : s09-0105 5.00g/5ml H2O

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 5 6:52 19109

Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration

DataAcq Meth : VOL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	7.05	96	4467745	50.00	ug/l	0.02
46) CHLOROBENZENE-d5	11.93	117	4312810	50.00	ug/l	0.00
69) 1,4-DICHLOROBENZENE-d4	15.68	152	1749297	50.00	ug/l	-0.02
System Monitoring Compounds						
23) DIBROMOFLUOROMETHANE	5.78	113	1822013	68.51	ug/l	0.01
Spiked Amount	50.000		Recovery	=	137.02%	
35) TOLUENE-d8	9.52	98	5421092	49.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.08%	
55) BROMOFLUOROBENZENE	13.87	95	1966350	43.77	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	87.54%	
Target Compounds						
37) Tetrachloroethene	10.18	164	2977266	62.14	ug/l	Qvalue 96

(#) = qualifier out of range (m) = manual integration

V0204023.D VOL.M Thu Feb 05 06:52:24 2009

Quantitation Report

Data File : C:\HPCHEM\2\DATA\V020409\V0204023.D

Vial: 7

Acq On : 5 Feb 09 12:41 am

Operator: Stan Hunnicutt

Sample : s09-0105 5.00g/5ml H2O

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 5 6:52 19109

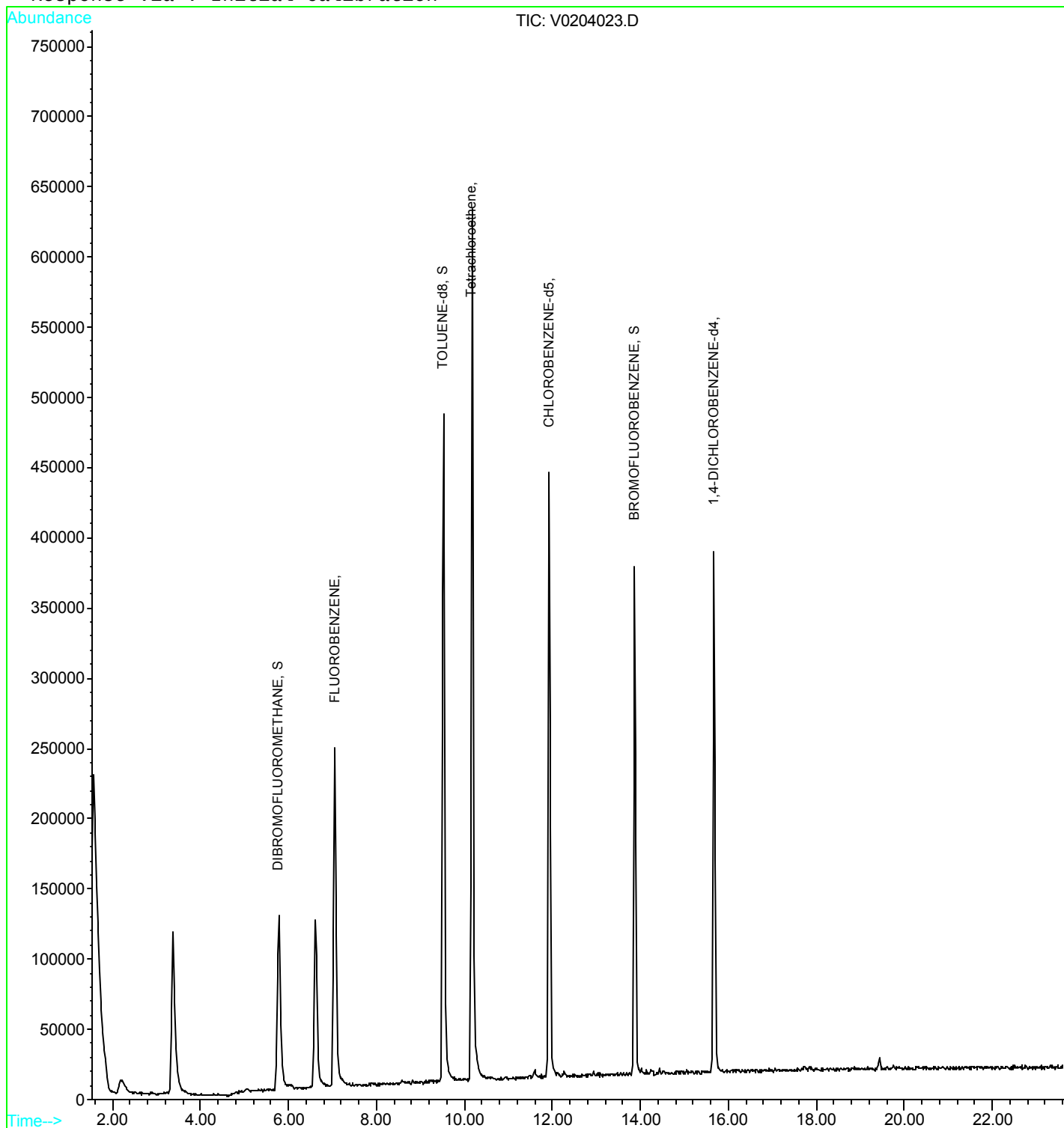
Quant Results File: VOL.RES

Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V020409\V0204024.D Vial: 8
Acq On : 5 Feb 09 1:10 am Operator: Stan Hunnicutt
Sample : s09-0106 5.07g/5ml H2O Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Feb 5 6:52 19109 Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)
Title : GCMS VOC Method 8260
Last Update : Tue Jan 27 12:47:25 2009
Response via : Initial Calibration
DataAcq Meth : VOL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	7.06	96	3777107	50.00	ug/l	0.02
46) CHLOROBENZENE-d5	11.93	117	3174619	50.00	ug/l	0.00
69) 1,4-DICHLOROBENZENE-d4	15.68	152	1254939	50.00	ug/l	-0.02
System Monitoring Compounds						
23) DIBROMOFLUOROMETHANE	5.78	113	1427911m	63.51	ug/l	0.02
Spiked Amount	50.000		Recovery	=	127.02%	
35) TOLUENE-d8	9.53	98	4219546	45.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.22%	
55) BROMOFLUOROBENZENE	13.87	95	1425692	43.11	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	86.22%	
Target Compounds						
37) Tetrachloroethene	10.18	164	2233841	55.15	ug/l	Qvalue 95

(#) = qualifier out of range (m) = manual integration

V0204024.D VOL.M Thu Feb 05 06:53:10 2009

Quantitation Report

Data File : C:\HPCHEM\2\DATA\V020409\V0204024.D

Vial: 8

Acq On : 5 Feb 09 1:10 am

Operator: Stan Hunnicutt

Sample : s09-0106 5.07g/5ml H2O

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 5 6:52 19109

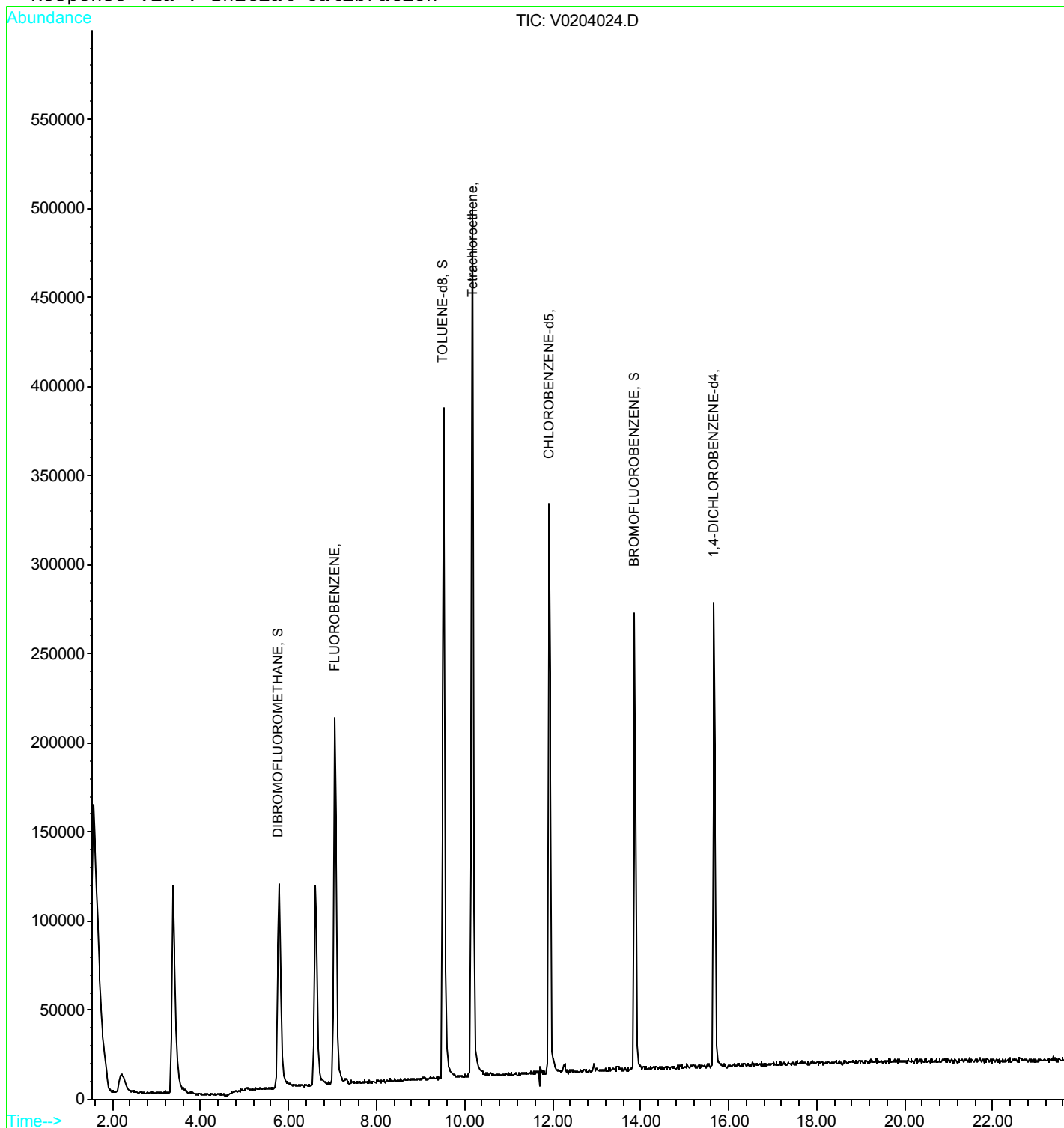
Quant Results File: VOL.RES

Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V020409\V0204025.D Vial: 9
Acq On : 5 Feb 09 1:40 am Operator: Stan Hunnicutt
Sample : s09-0108 5.14g/5ml H2O Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Feb 5 6:53 19109 Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)
Title : GCMS VOC Method 8260
Last Update : Tue Jan 27 12:47:25 2009
Response via : Initial Calibration
DataAcq Meth : VOL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	7.06	96	4149010	50.00	ug/l	0.02
46) CHLOROBENZENE-d5	11.93	117	3897270	50.00	ug/l	0.00
69) 1,4-DICHLOROBENZENE-d4	15.68	152	1608418	50.00	ug/l	-0.02
System Monitoring Compounds						
23) DIBROMOFLUOROMETHANE	5.79	113	1657511	67.11	ug/l	0.03
Spiked Amount	50.000		Recovery	=	134.22%	
35) TOLUENE-d8	9.53	98	4881288	48.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.08%	
55) BROMOFLUOROBENZENE	13.87	95	1742232	42.91	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	85.82%	
Target Compounds						
37) Tetrachloroethene	10.18	164	359417	8.08	ug/l	Qvalue # 84

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\2\DATA\V020409\V0204025.D

Vial: 9

Acq On : 5 Feb 09 1:40 am

Operator: Stan Hunnicutt

Sample : s09-0108 5.14g/5ml H2O

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 5 6:53 19109

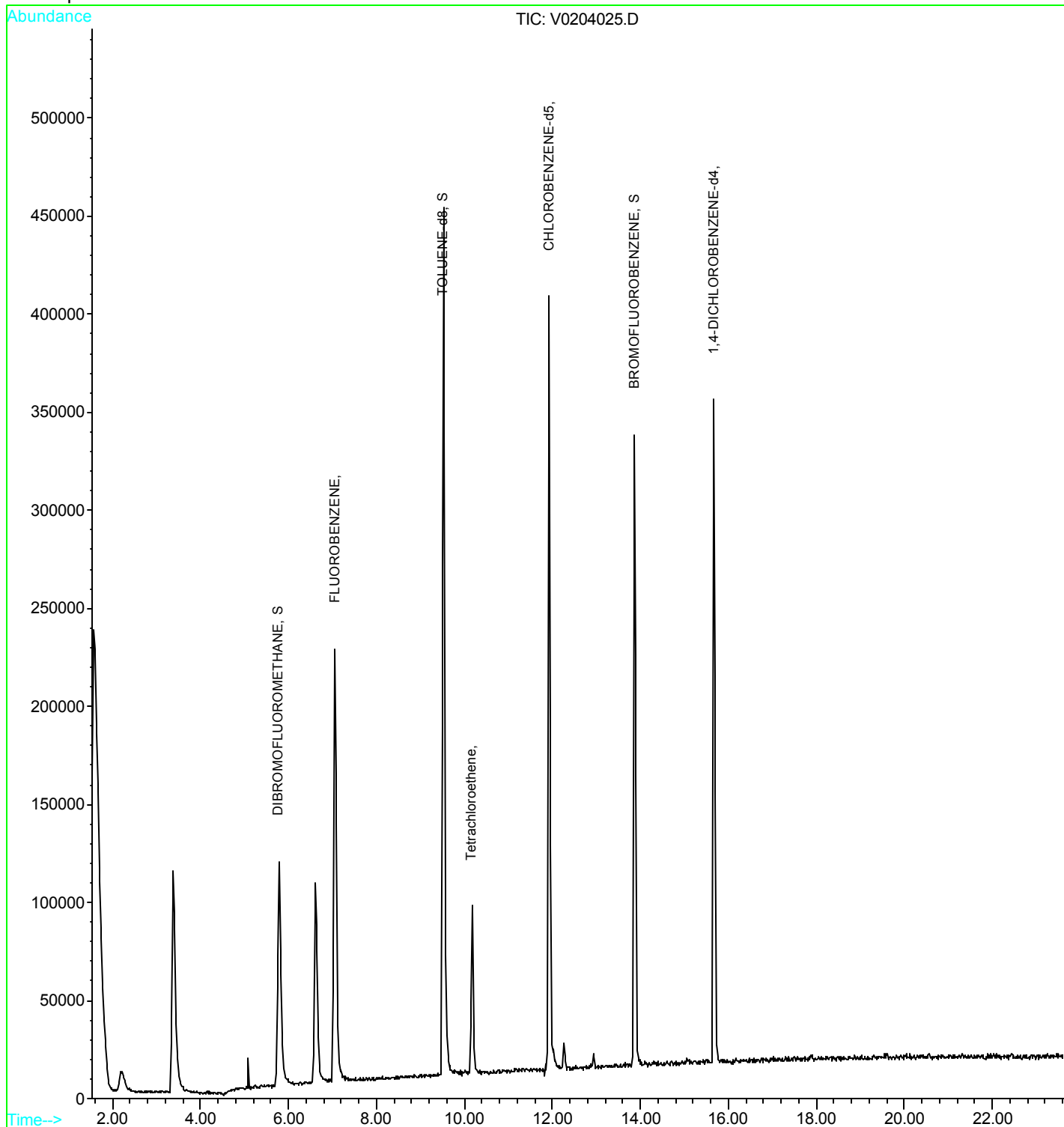
Quant Results File: VOL.RES

Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V020409\V0204026.D Vial: 10
Acq On : 5 Feb 09 6:39 am Operator: Stan Hunnicutt
Sample : s09-0109 5.07g/5ml H2O Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Feb 5 7:17 19109 Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)
Title : GCMS VOC Method 8260
Last Update : Tue Jan 27 12:47:25 2009
Response via : Initial Calibration
DataAcq Meth : VOL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	7.07	96	3995302	50.00	ug/l	0.03
46) CHLOROBENZENE-d5	11.94	117	3659070	50.00	ug/l	0.00
69) 1,4-DICHLOROBENZENE-d4	15.70	152	1215036	50.00	ug/l	0.00
System Monitoring Compounds						
23) DIBROMOFLUOROMETHANE	5.80	113	1492202	62.74	ug/l	0.03
Spiked Amount	50.000		Recovery	=	125.48%	
35) TOLUENE-d8	9.53	98	4625829	47.27	ug/l	0.01
Spiked Amount	50.000		Recovery	=	94.54%	
55) BROMOFLUOROBENZENE	13.89	95	1575479	41.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	82.66%	
Target Compounds						
37) Tetrachloroethene	10.19	164	420906	9.82	ug/l	Qvalue 90

Quantitation Report

Data File : C:\HPCHEM\2\DATA\V020409\V0204026.D

Vial: 10

Acq On : 5 Feb 09 6:39 am

Operator: Stan Hunnicutt

Sample : s09-0109 5.07g/5ml H2O

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 5 7:17 19109

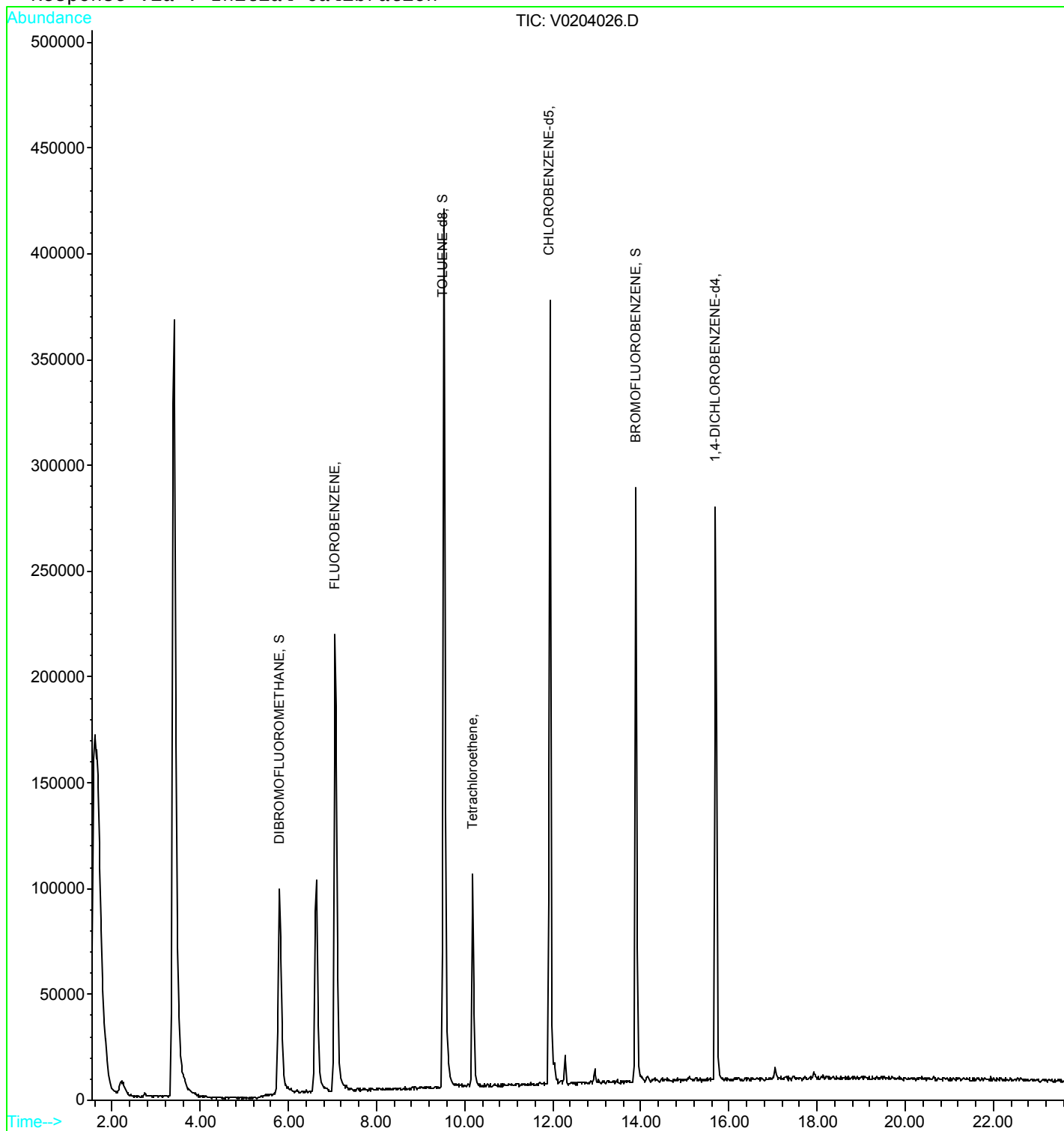
Quant Results File: VOL.RES

Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V020409\V0204027.D

Vial: 11

Acq On : 5 Feb 09 7:08 am

Operator: Stan Hunnicutt

Sample : s09-0110 5.10g/5ml H2O

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 5 7:36 19109

Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration

DataAcq Meth : VOL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	7.07	96	3686560	50.00	ug/l	0.04
46) CHLOROBENZENE-d5	11.94	117	3255557	50.00	ug/l	0.00
69) 1,4-DICHLOROBENZENE-d4	15.69	152	968307	50.00	ug/l	-0.01
System Monitoring Compounds						
23) DIBROMOFLUOROMETHANE	5.81	113	1473661	67.15	ug/l	0.04
Spiked Amount	50.000		Recovery	=	134.30%	
35) TOLUENE-d8	9.53	98	4218883	46.73	ug/l	0.01
Spiked Amount	50.000		Recovery	=	93.46%	
55) BROMOFLUOROBENZENE	13.88	95	1364646	40.24	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	80.48%	
Target Compounds						
37) Tetrachloroethene	10.19	164	394922	9.99	ug/l	Qvalue 90

(#) = qualifier out of range (m) = manual integration

V0204027.D VOL.M Thu Feb 05 07:36:54 2009

Quantitation Report

Data File : C:\HPCHEM\2\DATA\V020409\V0204027.D

Vial: 11

Acq On : 5 Feb 09 7:08 am

Operator: Stan Hunnicutt

Sample : s09-0110 5.10g/5ml H2O

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 5 7:36 19109

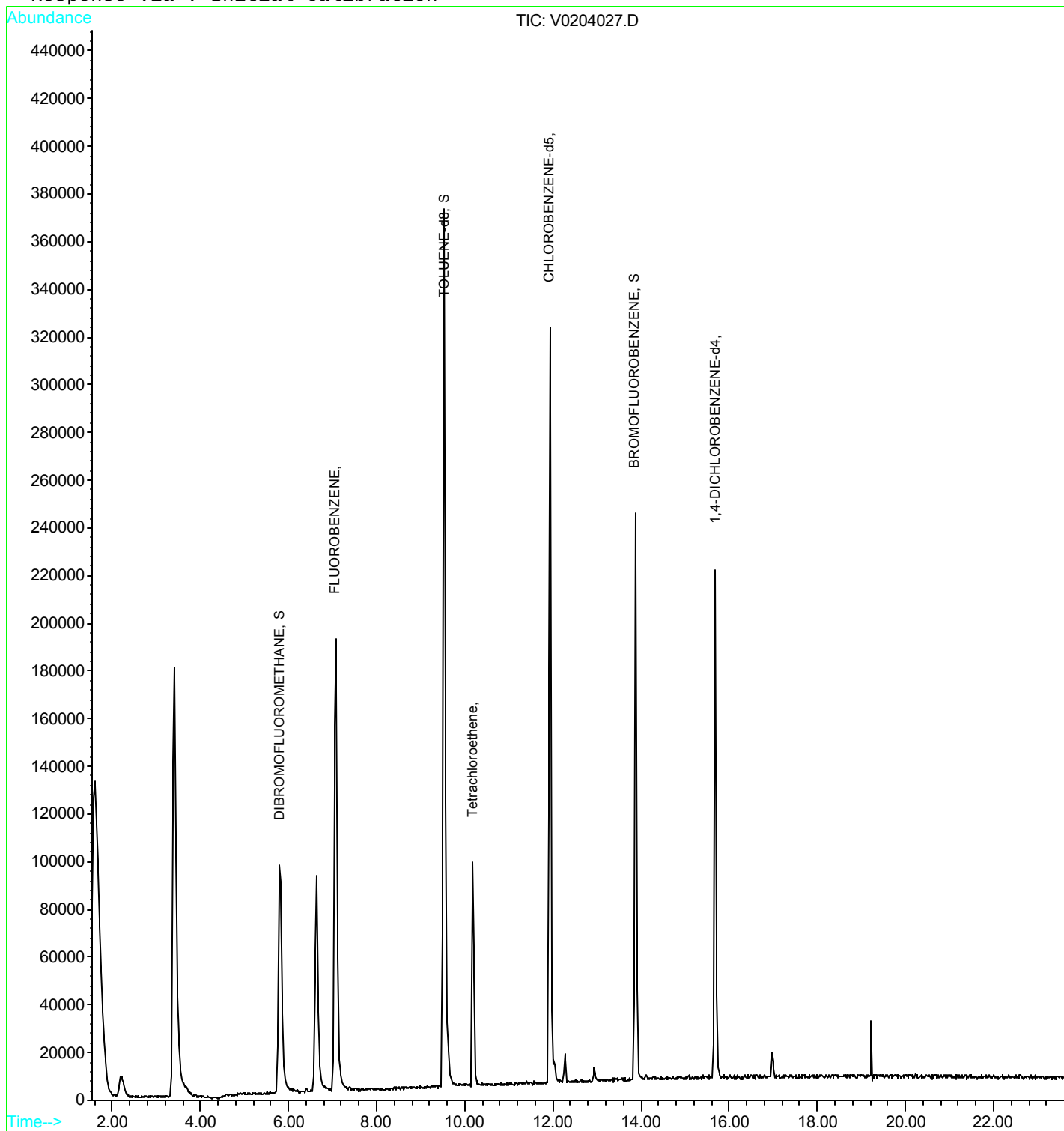
Quant Results File: VOL.RES

Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V020409\V0204028.D Vial: 12
Acq On : 5 Feb 09 7:37 am Operator: Stan Hunnicutt
Sample : s09-0103 5.23g/5ml H2O Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Feb 5 8:04 19109 Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)
Title : GCMS VOC Method 8260
Last Update : Tue Jan 27 12:47:25 2009
Response via : Initial Calibration
DataAcq Meth : VOL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	7.07	96	3581346	50.00	ug/l	0.03
46) CHLOROBENZENE-d5	11.94	117	3338955	50.00	ug/l	0.00
69) 1,4-DICHLOROBENZENE-d4	15.68	152	1203864	50.00	ug/l	-0.01
System Monitoring Compounds						
23) DIBROMOFLUOROMETHANE	5.80	113	1425541	66.87	ug/l	0.03
Spiked Amount	50.000		Recovery	=	133.74%	
35) TOLUENE-d8	9.53	98	4190368	47.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.54%	
55) BROMOFLUOROBENZENE	13.88	95	1439535	41.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	82.78%	
Target Compounds						
37) Tetrachloroethene	10.19	164	242375	6.31	ug/l	Qvalue 89

Quantitation Report

Data File : C:\HPCHEM\2\DATA\V020409\V0204028.D

Vial: 12

Acq On : 5 Feb 09 7:37 am

Operator: Stan Hunnicutt

Sample : s09-0103 5.23g/5ml H2O

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 5 8:04 19109

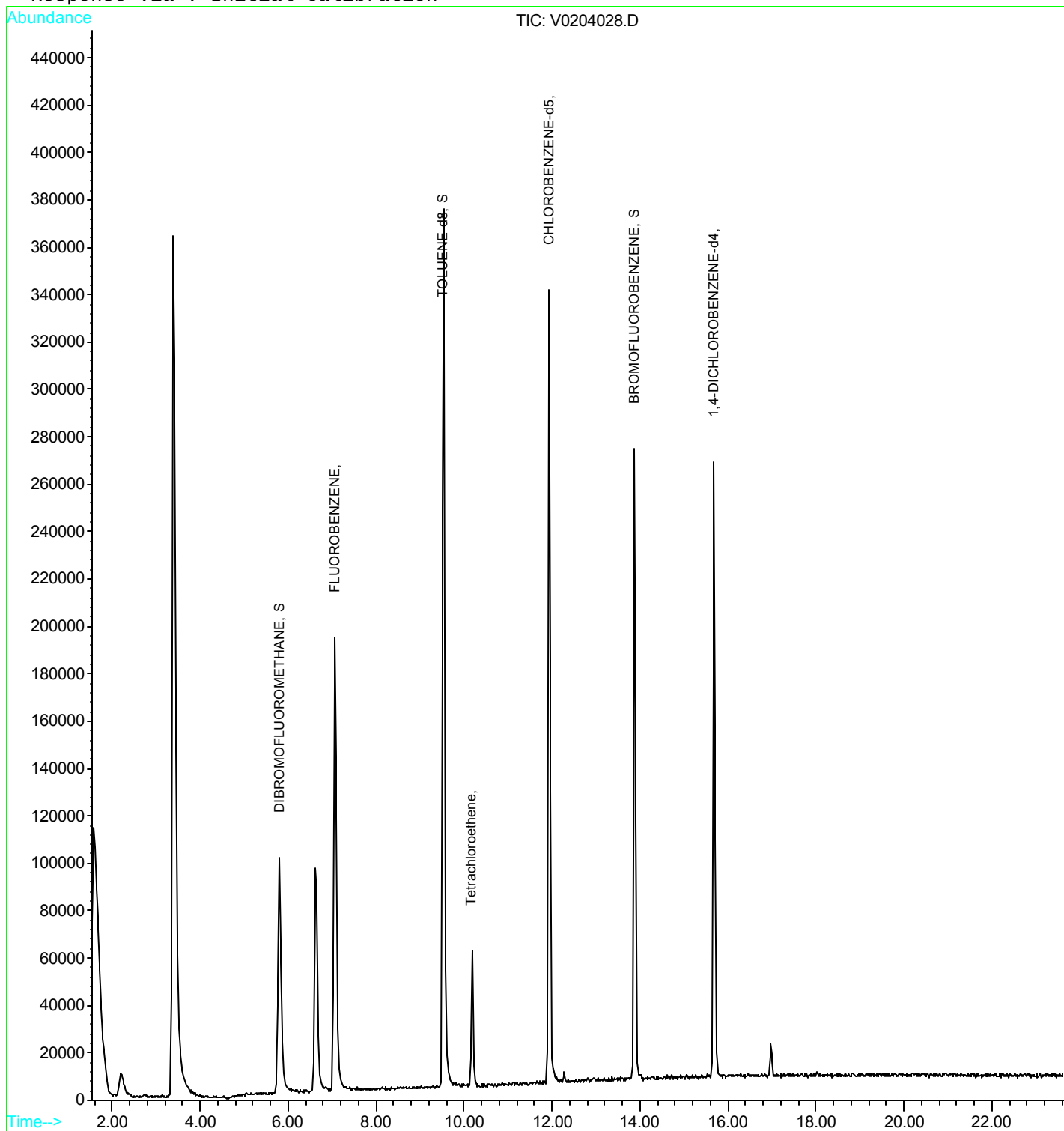
Quant Results File: VOL.RES

Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V020409\V0204029.D

Vial: 13

Acq On : 5 Feb 09 8:06 am

Operator: Stan Hunnicutt

Sample : w09-0107 500ul/5ml H2O

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 5 8:31 19109

Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration

DataAcq Meth : VOL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	7.07	96	4878178	50.00	ug/l	0.03
46) CHLOROBENZENE-d5	11.94	117	5758246	50.00	ug/l	0.00
69) 1,4-DICHLOROBENZENE-d4	15.68	152	3347902	50.00	ug/l	-0.01
System Monitoring Compounds						
23) DIBROMOFLUOROMETHANE	5.81	113	1870805	64.42	ug/l	0.04
Spiked Amount	50.000		Recovery	=	128.84%	
35) TOLUENE-d8	9.53	98	6232014	52.16	ug/l	0.01
Spiked Amount	50.000		Recovery	=	104.32%	
55) BROMOFLUOROBENZENE	13.88	95	3079682	51.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.68%	
Target Compounds						
18) cis-1,2-Dichloroethene	5.08	96	637803	35.03	ug/l	Qvalue 94

(#) = qualifier out of range (m) = manual integration

V0204029.D VOL.M Thu Feb 05 08:31:18 2009

Quantitation Report

Data File : C:\HPCHEM\2\DATA\V020409\V0204029.D

Vial: 13

Acq On : 5 Feb 09 8:06 am

Operator: Stan Hunnicutt

Sample : w09-0107 500ul/5ml H2O

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 5 8:31 19109

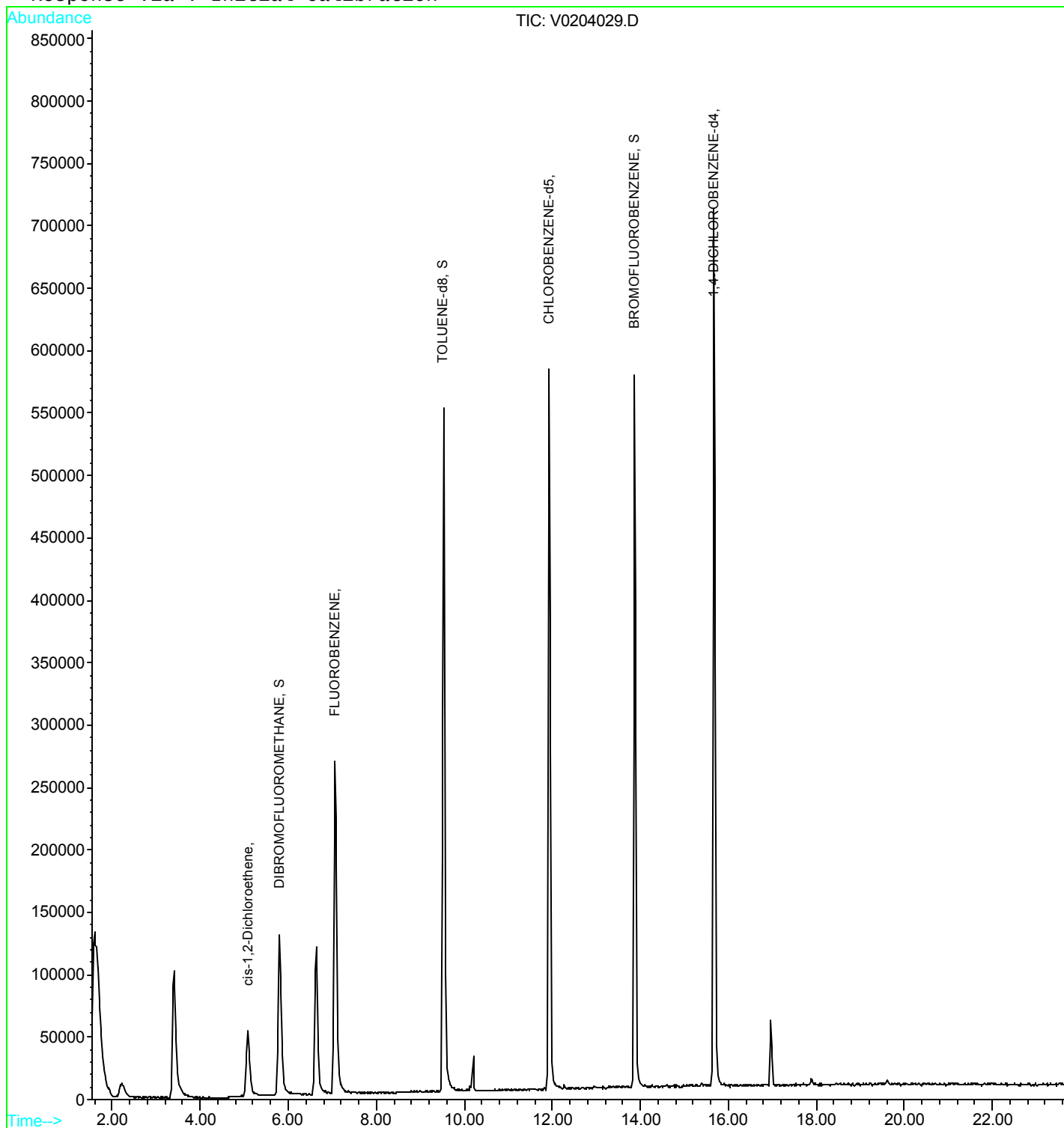
Quant Results File: VOL.RES

Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration



BFB

Data File : C:\HPCHEM\2\DATA\V020909\V0209002.D

Vial: 2

Acq On : 9 Feb 09 9:17 am

Operator: Stan Hunnicutt

Sample : CCV GRO

Inst : GC/MS Ins

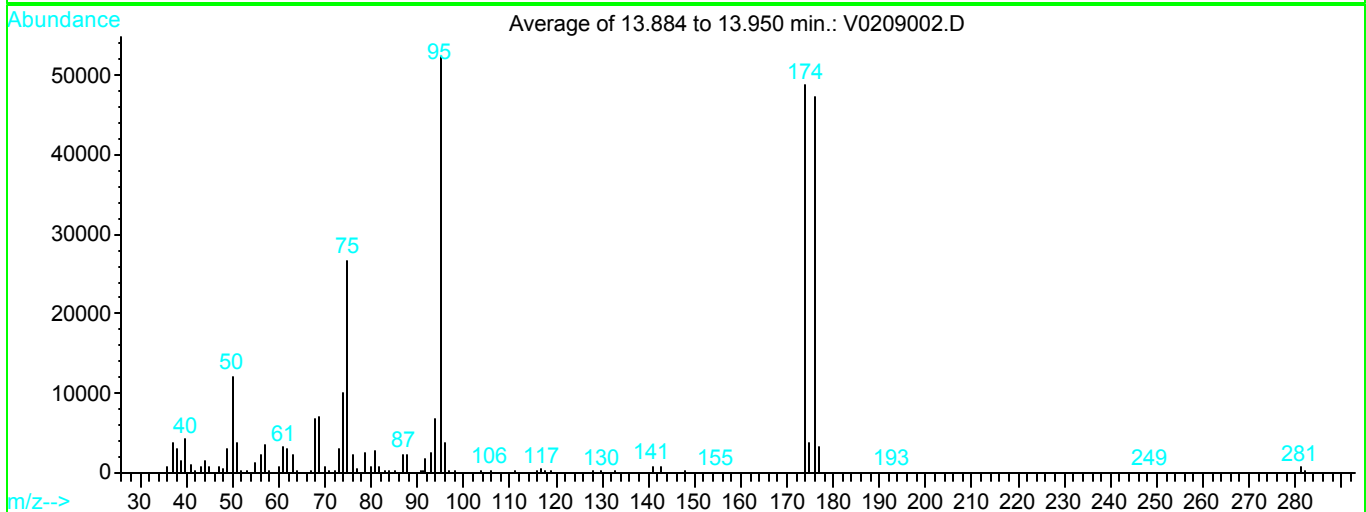
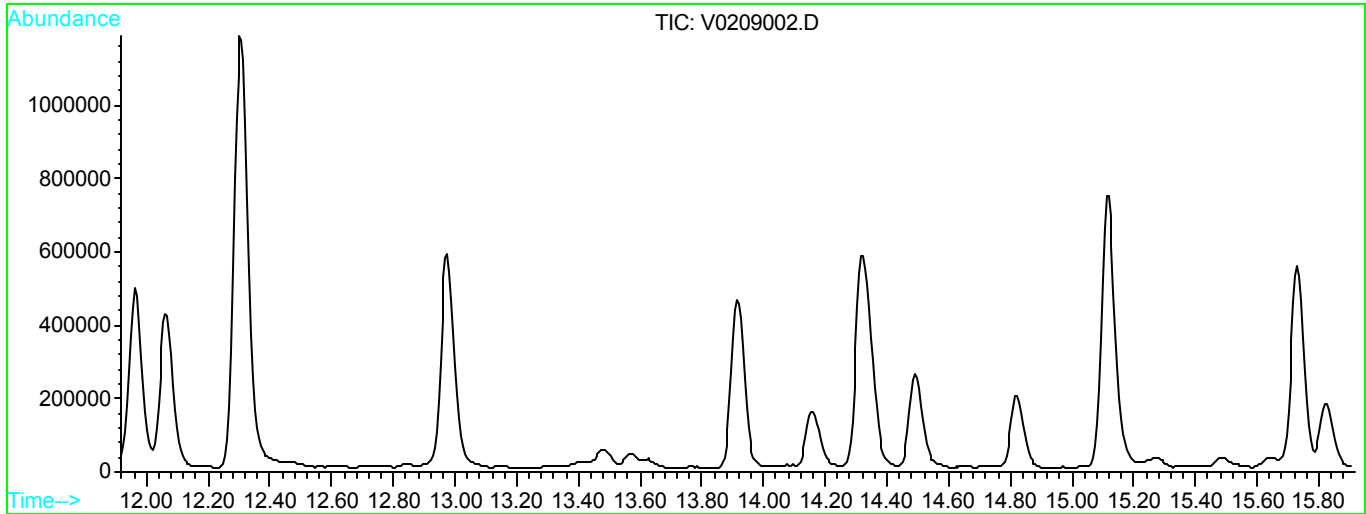
Misc : VOL149 4ul

Multiplr: 1.00

MS Integration Params: events.e

Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)

Title : GRO



Spectrum Information: Average of 13.884 to 13.950 min.

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	23.2	12130	PASS
75	95	30	60	51.3	26771	PASS
95	95	100	100	100.0	52190	PASS
96	95	5	9	7.2	3736	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	93.3	48704	PASS
175	174	5	9	7.9	3831	PASS
176	174	95	101	97.2	47321	PASS
177	176	5	9	6.6	3146	PASS

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V020909\V0209001.D

Vial: 1

Acq On : 9 Feb 09 9:49 am

Operator: Stan Hunnicutt

Sample : CCV VOC

Inst : GC/MS Ins

Misc : VOL196 25ul

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 9 10:12 19109

Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration

DataAcq Meth : VOL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	7.07	96	3027704	50.00	ug/l	0.03
46) CHLOROBENZENE-d5	11.95	117	4010544	50.00	ug/l	0.02
69) 1,4-DICHLOROBENZENE-d4	15.71	152	2199618	50.00	ug/l	0.02

System Monitoring Compounds

23) DIBROMOFLUOROMETHANE	5.79	113	1111633	61.68	ug/l	0.02
Spiked Amount	50.000		Recovery	=	123.36%	
35) TOLUENE-d8	9.53	98	4309970	58.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.24%	
55) BROMOFLUOROBENZENE	13.90	95	2228253	53.33	ug/l	0.01
Spiked Amount	50.000		Recovery	=	106.66%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.69	85	1976035	78.50	ug/l	97
3) Chloromethane	1.85	50	943826	65.30	ug/l	99
4) Vinyl_Chloride	1.91	62	731702	67.00	ug/l	92
5) Bromomethane	2.14	94	534014	139.80	ug/l	97
6) Chloroethane	2.22	64	214018	156.40	ug/l	98
7) Trichlorofluoromethane	2.30	101	472587	174.97	ug/l	98
8) 1,1-Dichloroethene	2.78	96	325332	70.72	ug/l #	77
9) Carbon Disulfide	2.81	76	1049053	74.21	ug/l #	86
10) Iodomethane	2.93	142	730002	91.92	ug/l #	79
11) Acetone	3.49	58	67895	191.47	ug/l	66
12) trans-1,2-Dichloroethene	3.53	96	469578	74.36	ug/l	91
13) n-Hexane	3.60	57	570053	69.95	ug/l	92
14) Methy-tert-butylether(MTBE)	3.70	73	1515302	72.63	ug/l	98
15) 1,1-Dichloroethane	4.27	63	961591	79.92	ug/l	100
16) Acrylonitrile	4.40	53	75409	39.83	ug/l #	25
17) Vinyl_Acetate	4.67	43	1531034	102.21	ug/l	100
18) cis-1,2-Dichloroethene	5.05	96	647832	57.05	ug/l #	77
19) 2,2-Dichloropropane	5.23	77	1749647	81.22	ug/l	97
20) Bromochloromethane	5.38	128	419615	53.29	ug/l #	78
21) Chloroform	5.50	83	1832575	66.13	ug/l	99
22) Carbon_Tetrachloride	5.68	117	2112124	90.11	ug/l	99
24) 1,1,1-Trichloroethane	5.81	97	2181038	79.01	ug/l	94
25) 2-Butanone	6.08	72	170694	92.77	ug/l	94
26) 1,1-Dichloropropene	6.00	75	1298848	55.89	ug/l	96
27) Benzene	6.39	78	2775386	44.03	ug/l	100
28) 1,2-Dichloroethane	6.74	62	2011919	78.52	ug/l #	93
29) Trichloroethene	7.32	95	1066720	58.34	ug/l	91
30) Dibromomethane	7.97	93	812287	62.81	ug/l	87

(#)= qualifier out of range (m) = manual integration

V0209001.D VOL.M

Mon Feb 09 10:30:38 2009

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V020909\V0209001.D

Vial: 1

Acq On : 9 Feb 09 9:49 am

Operator: Stan Hunnicutt

Sample : CCV VOC

Inst : GC/MS Ins

Misc : VOL196 25ul

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 9 10:12 19109

Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration

DataAcq Meth : VOL

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
31) 1,2-Dichloropropane	8.15	63	920037	48.32	ug/l	97
32) Bromodichloromethane	8.26	83	2093225	68.59	ug/l	96
33) 2-Chloroethylvinylether	9.62	63	571755	72.34	ug/l #	91
34) cis-1,3-Dichloropropene	9.26	75	2203190	57.79	ug/l	92
36) Toluene	9.62	92	2848343	48.53	ug/l	99
37) Tetrachloroethene	10.20	164	1618430	49.84	ug/l	93
38) 4-Methyl-2-pentanone	10.29	100	465343	103.46	ug/l	86
39) trans-1,3-Dichloropropene	10.30	75	2206439	63.29	ug/l	96
40) 1,1,2-Trichloroethane	10.54	83	886654	53.94	ug/l	98
41) Ethyl_methacrylate	10.62	69	811405	54.41	ug/l	99
42) Dibromochloromethane	10.79	129	1994586	66.63	ug/l	97
43) 1,3-Dichloropropane	10.96	76	2170467	54.97	ug/l	97
44) 1,2-Dibromoethane	11.14	107	1443043	58.10	ug/l	99
45) 2-Hexanone	11.60	43	2309768	107.77	ug/l	97
47) Chlorobenzene	11.98	112	4016419	45.52	ug/l	96
48) Ethylbenzene	12.05	91	6617549	48.09	ug/l	97
49) 1,1,1,2-Tetrachloroethane	12.10	131	1900441	53.54	ug/l	97
50) Xylene,m+p	12.29	106	4533820	78.18	ug/l	100
51) Xylene,o	12.96	106	2739110	44.64	ug/l	94
52) Styrene	13.05	104	4138240	42.49	ug/l	98
53) Bromoform	13.05	173	1294711	48.95	ug/l	99
54) Isopropylbenzene	13.48	105	7575536	49.47	ug/l	95
56) Bromobenzene	14.05	156	2129267	47.79	ug/l	93
57) n-Propylbenzene	14.14	91	8007473	47.14	ug/l	95
58) 1,1,2,2-Tetrachloroethane	14.27	83	1423492	41.18	ug/l	97
59) 2-Chlorotoluene	14.36	91	4896686	50.67	ug/l	96
60) 1,3,5-Trimethylbenzene	14.48	105	5549815	47.68	ug/l	99
61) 1,2,3-Trichloropropane	14.64	75	181151	48.88	ug/l	100
62) trans-1,4-Dichloro-2-buten	14.56	53	567773	56.86	ug/l #	77
63) 4-Chlorotoluene	14.64	91	4924981	49.50	ug/l	99
64) tert-Butylbenzene	14.98	119	6376413	48.20	ug/l	94
65) 1,2,4-Trimethylbenzene	15.10	105	5776137	47.65	ug/l	98
66) sec-Butylbenzene	15.27	105	8075342	46.17	ug/l	97
67) 4-Isopropyltoluene	15.52	119	7089889	47.58	ug/l	97
68) 1,3-Dichlorobenzene	15.59	146	3669065	44.55	ug/l	99
70) 1,4-Dichlorobenzene	15.74	146	3626494	48.39	ug/l	97
71) n-Butylbenzene	16.21	91	6256990	54.93	ug/l	98
72) 1,2-Dichlorobenzene	16.42	146	3622909	50.79	ug/l	98
73) 1,2-Dibromo-3-chloropropan	17.77	75	301692	54.02	ug/l	89
74) Hexachlorobutadiene	18.90	225	1659493	57.01	ug/l	100
75) 1,2,4-Trichlorobenzene	18.92	180	3169363	53.69	ug/l	99

(#)= qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V020909\V0209001.D Vial: 1
 Acq On : 9 Feb 09 9:49 am Operator: Stan Hunnicutt
 Sample : CCV VOC Inst : GC/MS Ins
 Misc : VOL196 25ul Multiplr: 1.00
 MS Integration Params: events.e
 Quant Time: Feb 9 10:12 19109 Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)
 Title : GCMS VOC Method 8260
 Last Update : Tue Jan 27 12:47:25 2009
 Response via : Initial Calibration
 DataAcq Meth : VOL

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
76) Naphthalene	19.49	128	5755532	47.91 ug/l	100
77) 1,2,3-Trichlorobenzene	19.80	180	2815168	51.63 ug/l	99

Quantitation Report

Data File : C:\HPCHEM\2\DATA\V020909\V0209001.D

Vial: 1

Acq On : 9 Feb 09 9:49 am

Operator: Stan Hunnicutt

Sample : CCV VOC

Inst : GC/MS Ins

Misc : VOL196 25ul

Multiplr: 1.00

MS Integration Params: events.e

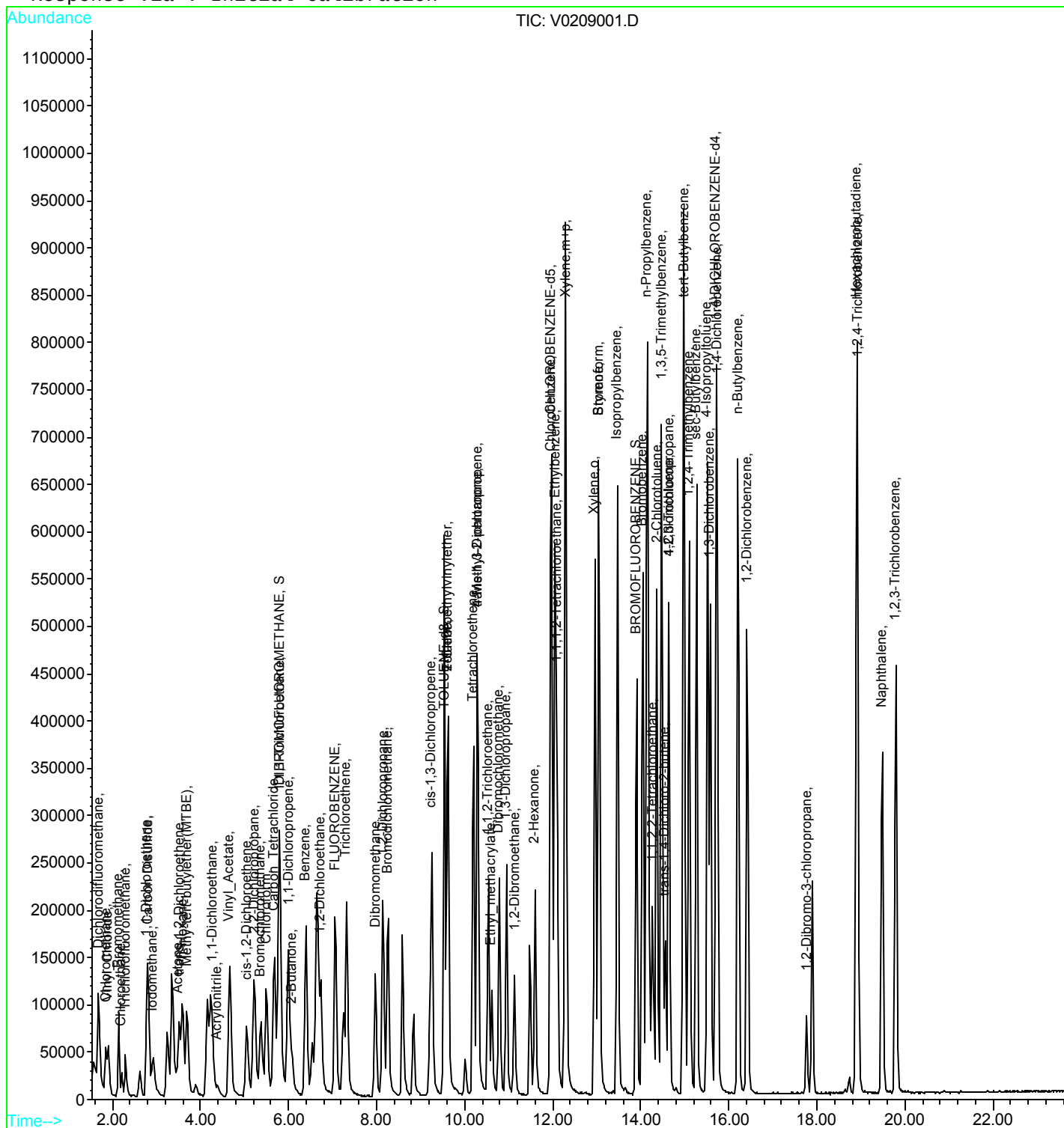
Quant Results File: VOL.RES

Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V020909\V0209003.D

Vial: 3

Acq On : 9 Feb 09 10:19 am

Operator: Stan Hunnicutt

Sample : LCS020509AV

Inst : GC/MS Ins

Misc : VOL196 25ul

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 9 10:42 19109

Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration

DataAcq Meth : VOL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	7.05	96	2750245	50.00	ug/l	0.01
46) CHLOROBENZENE-d5	11.95	117	3816097	50.00	ug/l	0.00
69) 1,4-DICHLOROBENZENE-d4	15.71	152	2267271	50.00	ug/l	0.00

System Monitoring Compounds

23) DIBROMOFLUOROMETHANE	5.78	113	988497	60.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	120.76%	
35) TOLUENE-d8	9.53	98	4023772	59.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	119.48%	
55) BROMOFLUOROBENZENE	13.90	95	2208785	55.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.12%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.68	85	1676700	73.33	ug/l	98
3) Chloromethane	1.85	50	712763	54.29	ug/l	95
4) Vinyl_Chloride	1.90	62	624411	62.95	ug/l	93
5) Bromomethane	2.14	94	536062	154.49	ug/l	97
6) Chloroethane	2.21	64	173153	138.40	ug/l	97
7) Trichlorofluoromethane	2.29	101	398188	160.88	ug/l	97
8) 1,1-Dichloroethene	2.76	96	309895	74.16	ug/l	89
9) Carbon Disulfide	2.79	76	978984	76.24	ug/l #	90
10) Iodomethane	2.91	142	742309	102.90	ug/l #	90
11) Acetone	3.47	58	65045	201.94	ug/l	85
12) trans-1,2-Dichloroethene	3.51	96	447110	77.95	ug/l	99
13) n-Hexane	3.59	57	485338	65.56	ug/l	100
14) Methy-tert-butylether(MTBE)	3.69	73	1537680	81.13	ug/l	97
15) 1,1-Dichloroethane	4.26	63	871788	79.77	ug/l	99
16) Acrylonitrile	4.39	53	108412	65.17	ug/l #	68
17) Vinyl_Acetate	4.65	43	1222104	89.81	ug/l	100
18) cis-1,2-Dichloroethene	5.04	96	542014	52.58	ug/l #	72
19) 2,2-Dichloropropane	5.20	77	1403593	71.73	ug/l	96
20) Bromochloromethane	5.36	128	396009	55.37	ug/l #	86
21) Chloroform	5.48	83	1624780	64.55	ug/l	100
22) Carbon_Tetrachloride	5.66	117	1870924	87.87	ug/l	98
24) 1,1,1-Trichloroethane	5.79	97	1773511	70.73	ug/l	95
25) 2-Butanone	6.07	72	168317	100.71	ug/l #	61
26) 1,1-Dichloropropene	5.99	75	1194721	56.60	ug/l	97
27) Benzene	6.38	78	2546208	44.47	ug/l	100
28) 1,2-Dichloroethane	6.72	62	1932783	83.04	ug/l #	93
29) Trichloroethene	7.31	95	1010341	60.90	ug/l	94
30) Dibromomethane	7.97	93	770366	65.58	ug/l	85

(#)= qualifier out of range (m)= manual integration

V0209003.D VOL.M

Mon Feb 09 11:35:46 2009

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V020909\V0209003.D

Vial: 3

Acq On : 9 Feb 09 10:19 am

Operator: Stan Hunnicutt

Sample : LCS020509AV

Inst : GC/MS Ins

Misc : VOL196 25ul

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 9 10:42 19109

Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration

DataAcq Meth : VOL

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
31) 1,2-Dichloropropane	8.14	63	896111	51.81	ug/l	98
32) Bromodichloromethane	8.25	83	1987632	71.70	ug/l	95
33) 2-Chloroethylvinylether	9.61	63	541493	75.42	ug/l #	90
34) cis-1,3-Dichloropropene	9.25	75	2052195	59.26	ug/l #	85
36) Toluene	9.61	92	2666226	50.01	ug/l	95
37) Tetrachloroethene	10.19	164	1805306	61.21	ug/l	95
38) 4-Methyl-2-pentanone	10.28	100	506181	123.89	ug/l	90
39) trans-1,3-Dichloropropene	10.29	75	2124960	67.10	ug/l	89
40) 1,1,2-Trichloroethane	10.53	83	880198	58.95	ug/l	97
41) Ethyl_methacrylate	10.62	69	817724	60.37	ug/l	94
42) Dibromochloromethane	10.78	129	2004059	73.70	ug/l	97
43) 1,3-Dichloropropane	10.95	76	2211130	61.65	ug/l	100
44) 1,2-Dibromoethane	11.13	107	1451954	64.35	ug/l	99
45) 2-Hexanone	11.60	43	2811890	144.44	ug/l	93
47) Chlorobenzene	11.98	112	3914757	46.62	ug/l	97
48) Ethylbenzene	12.05	91	6426457	49.08	ug/l	97
49) 1,1,1,2-Tetrachloroethane	12.09	131	1851684	54.83	ug/l	99
50) Xylene,m+p	12.28	106	4499695	81.55	ug/l	100
51) Xylene,o	12.96	106	2723612	46.65	ug/l	97
52) Styrene	13.05	104	4056578	43.77	ug/l	99
53) Bromoform	13.05	173	1415932	56.26	ug/l	98
54) Isopropylbenzene	13.47	105	7210983	49.49	ug/l	97
56) Bromobenzene	14.04	156	2129400	50.23	ug/l	93
57) n-Propylbenzene	14.13	91	7916421	48.98	ug/l	98
58) 1,1,2,2-Tetrachloroethane	14.26	83	1586819	48.24	ug/l	99
59) 2-Chlorotoluene	14.36	91	4834492	52.57	ug/l	98
60) 1,3,5-Trimethylbenzene	14.47	105	5575954	50.35	ug/l	100
61) 1,2,3-Trichloropropane	14.63	75	208966	59.26	ug/l	100
62) trans-1,4-Dichloro-2-buten	14.55	53	627399	66.03	ug/l #	80
63) 4-Chlorotoluene	14.63	91	4979034	52.60	ug/l	99
64) tert-Butylbenzene	14.97	119	6278027	49.88	ug/l	96
65) 1,2,4-Trimethylbenzene	15.09	105	5891416	51.08	ug/l	97
66) sec-Butylbenzene	15.26	105	8031334	48.25	ug/l	97
67) 4-Isopropyltoluene	15.51	119	7068242	49.85	ug/l	98
68) 1,3-Dichlorobenzene	15.58	146	3743859	47.77	ug/l	98
70) 1,4-Dichlorobenzene	15.73	146	3786074	49.01	ug/l	98
71) n-Butylbenzene	16.20	91	6174777	52.59	ug/l	97
72) 1,2-Dichlorobenzene	16.41	146	3779584	51.40	ug/l	98
73) 1,2-Dibromo-3-chloropropan	17.76	75	371249	64.49	ug/l	85
74) Hexachlorobutadiene	18.88	225	1712618	57.08	ug/l	99
75) 1,2,4-Trichlorobenzene	18.91	180	3301954	54.26	ug/l	98

(#)= qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V020909\V0209003.D Vial: 3
Acq On : 9 Feb 09 10:19 am Operator: Stan Hunnicutt
Sample : LCS020509AV Inst : GC/MS Ins
Misc : VOL196 25ul Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Feb 9 10:42 19109 Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)
Title : GCMS VOC Method 8260
Last Update : Tue Jan 27 12:47:25 2009
Response via : Initial Calibration
DataAcq Meth : VOL

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
76) Naphthalene	19.47	128	6539979	52.82 ug/l	100
77) 1,2,3-Trichlorobenzene	19.78	180	3004951	53.47 ug/l	99

(#) = qualifier out of range (m) = manual integration

V0209003.D VOL.M Mon Feb 09 11:35:47 2009

Quantitation Report

Data File : C:\HPCHEM\2\DATA\V020909\V0209003.D

Vial: 3

Acq On : 9 Feb 09 10:19 am

Operator: Stan Hunnicutt

Sample : LCS020509AV

Inst : GC/MS Ins

Misc : VOL196 25ul

Multiplr: 1.00

MS Integration Params: events.e

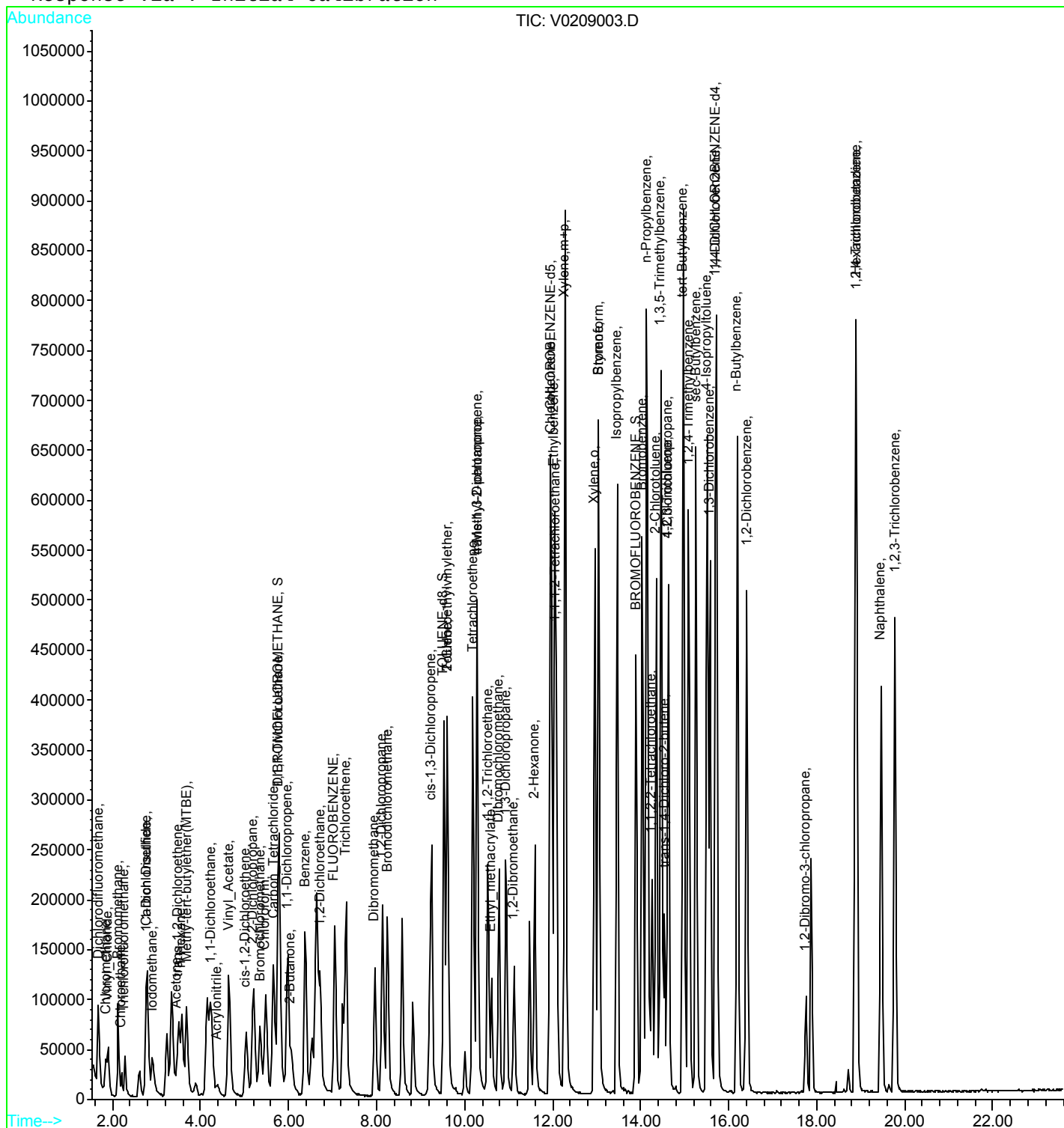
Quant Results File: VOL.RES

Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V020909\V0209005.D

Vial: 5

Acq On : 9 Feb 09 11:21 am

Operator: Stan Hunnicutt

Sample : MB020509AV

Inst : GC/MS Ins

Misc : VOL195 10ul

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 9 17:00 19109

Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration

DataAcq Meth : VOL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	7.06	96	2912436	50.00	ug/l	0.02
46) CHLOROBENZENE-d5	11.95	117	4130363	50.00	ug/l	0.00
69) 1,4-DICHLOROBENZENE-d4	15.70	152	2767596	50.00	ug/l	0.00

System Monitoring Compounds

23) DIBROMOFLUOROMETHANE	5.78	113	1296501	74.78	ug/l	0.02
Spiked Amount	50.000		Recovery	=	149.56%	
35) TOLUENE-d8	9.54	98	4057514	56.88	ug/l	0.01
Spiked Amount	50.000		Recovery	=	113.76%	
55) BROMOFLUOROBENZENE	13.89	95	2347367	54.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.10%	

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration

V0209005.D VOL.M Mon Feb 09 17:00:23 2009

Quantitation Report

Data File : C:\HPCHEM\2\DATA\V0209009\V0209005.D

Vial: 5

Acq On : 9 Feb 09 11:21 am

Operator: Stan Hunnicutt

Sample : MB020509AV

Inst : GC/MS Ins

Misc : VOL195 10ul

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 9 17:00 19109

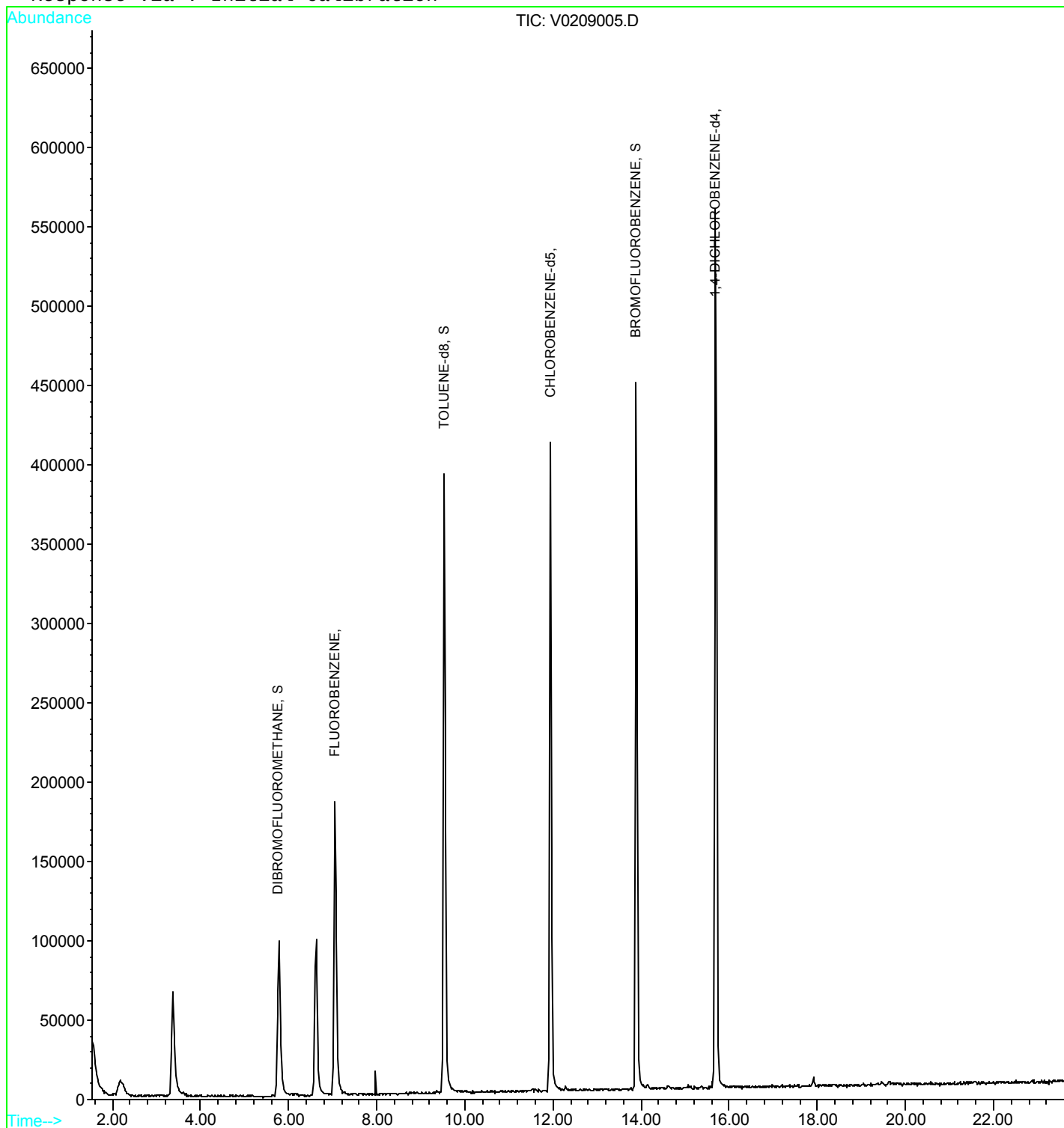
Quant Results File: VOL.RES

Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V020909\V0209006.D Vial: 6
 Acq On : 9 Feb 09 11:52 am Operator: Stan Hunnicutt
 Sample : w09-0132 5ml Inst : GC/MS Ins
 Misc : Multiplr: 1.00
 MS Integration Params: events.e
 Quant Time: Feb 9 21:29 19109 Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)
 Title : GCMS VOC Method 8260
 Last Update : Tue Jan 27 12:47:25 2009
 Response via : Initial Calibration
 DataAcq Meth : VOL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	7.06	96	3040606	50.00	ug/l	0.02
46) CHLOROBENZENE-d5	11.95	117	4339962	50.00	ug/l	0.00
69) 1,4-DICHLOROBENZENE-d4	15.70	152	2985212	50.00	ug/l	0.00
System Monitoring Compounds						
23) DIBROMOFLUOROMETHANE	5.78	113	1337618	73.90	ug/l	0.02
Spiked Amount 50.000			Recovery	=	147.80%	
35) TOLUENE-d8	9.54	98	4236928	56.89	ug/l	0.01
Spiked Amount 50.000			Recovery	=	113.78%	
55) BROMOFLUOROBENZENE	13.90	95	2496532	55.22	ug/l	0.00
Spiked Amount 50.000			Recovery	=	110.44%	
Target Compounds						
18) cis-1,2-Dichloroethene	5.06	96	116483	10.57	ug/l	Qvalue # 61

Quantitation Report

Data File : C:\HPCHEM\2\DATA\V0209009\V0209006.D

Vial: 6

Acq On : 9 Feb 09 11:52 am

Operator: Stan Hunnicutt

Sample : w09-0132 5ml

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 9 21:29 19109

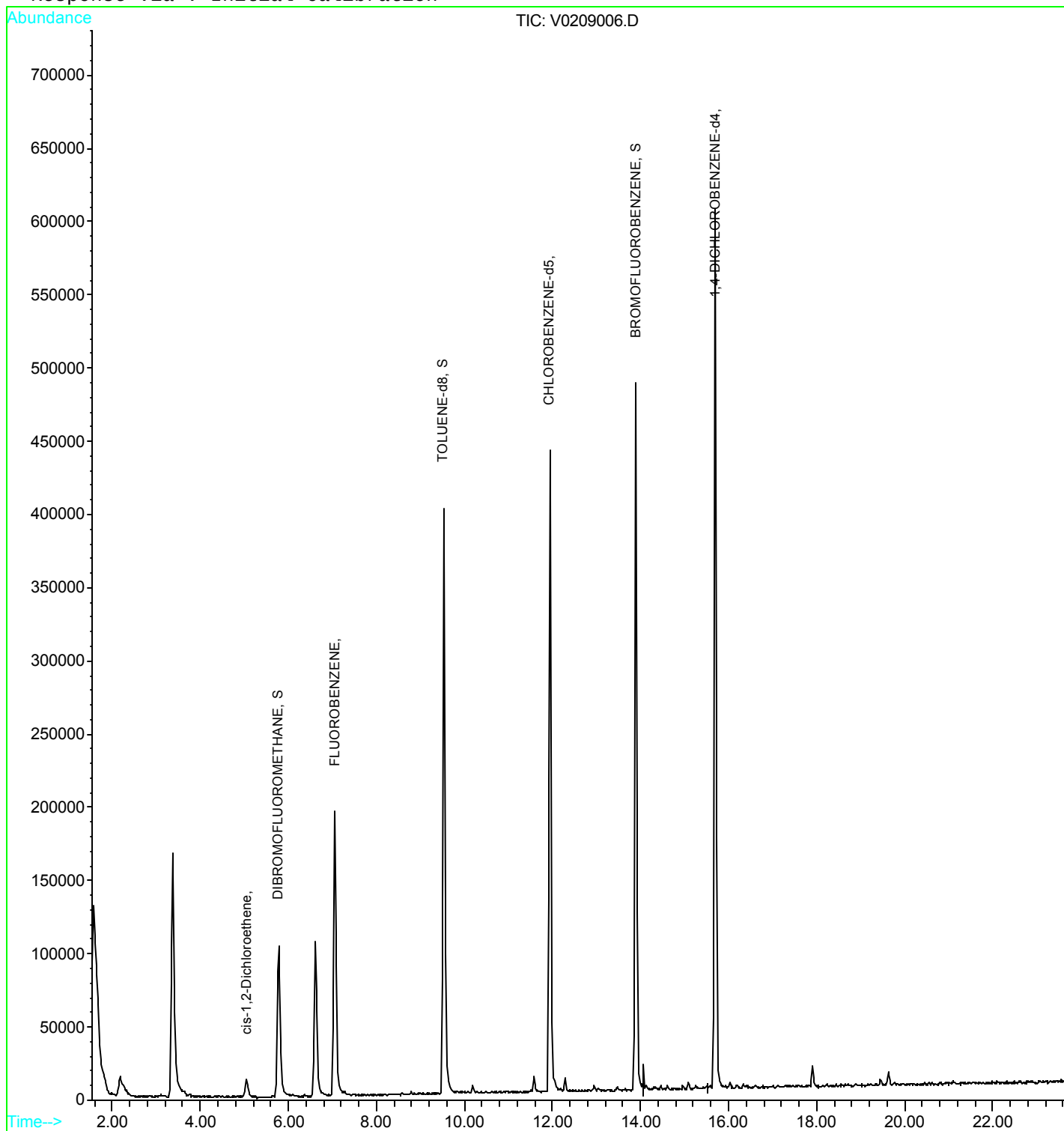
Quant Results File: VOL.RES

Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V020909\V0209007.D

Vial: 7

Acq On : 9 Feb 09 12:23 pm

Operator: Stan Hunnicutt

Sample : w09-0140 5ml

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 9 21:31 19109

Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration

DataAcq Meth : VOL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	7.08	96	2893021m	50.00	ug/l	0.04
46) CHLOROBENZENE-d5	11.95	117	4053158m	50.00	ug/l	0.00
69) 1,4-DICHLOROBENZENE-d4	15.71	152	2508057	50.00	ug/l	0.00
System Monitoring Compounds						
23) DIBROMOFLUOROMETHANE	5.78	113	1208031	70.15	ug/l	0.01
Spiked Amount	50.000		Recovery	=	140.30%	
35) TOLUENE-d8	9.55	98	4053142	57.20	ug/l	0.03
Spiked Amount	50.000		Recovery	=	114.40%	
55) BROMOFLUOROBENZENE	13.90	95	2362411	55.95	ug/l	0.01
Spiked Amount	50.000		Recovery	=	111.90%	
Target Compounds						
6) Chloroethane	0.00	64	0	-8.23	ug/l	0
7) Trichlorofluoromethane	0.00	101	0	-19.47	ug/l	0
12) trans-1,2-Dichloroethene	3.54	96	107099	17.75	ug/l	98
16) Acrylonitrile	0.00	53	0	-3.67	ug/l	0
18) cis-1,2-Dichloroethene	5.06	96	804076	73.98	ug/l	88

(#) = qualifier out of range (m) = manual integration

V0209007.D VOL.M Mon Feb 09 21:31:32 2009

Quantitation Report

Data File : C:\HPCHEM\2\DATA\V020909\V0209007.D

Vial: 7

Acq On : 9 Feb 09 12:23 pm

Operator: Stan Hunnicutt

Sample : w09-0140 5ml

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 9 21:31 19109

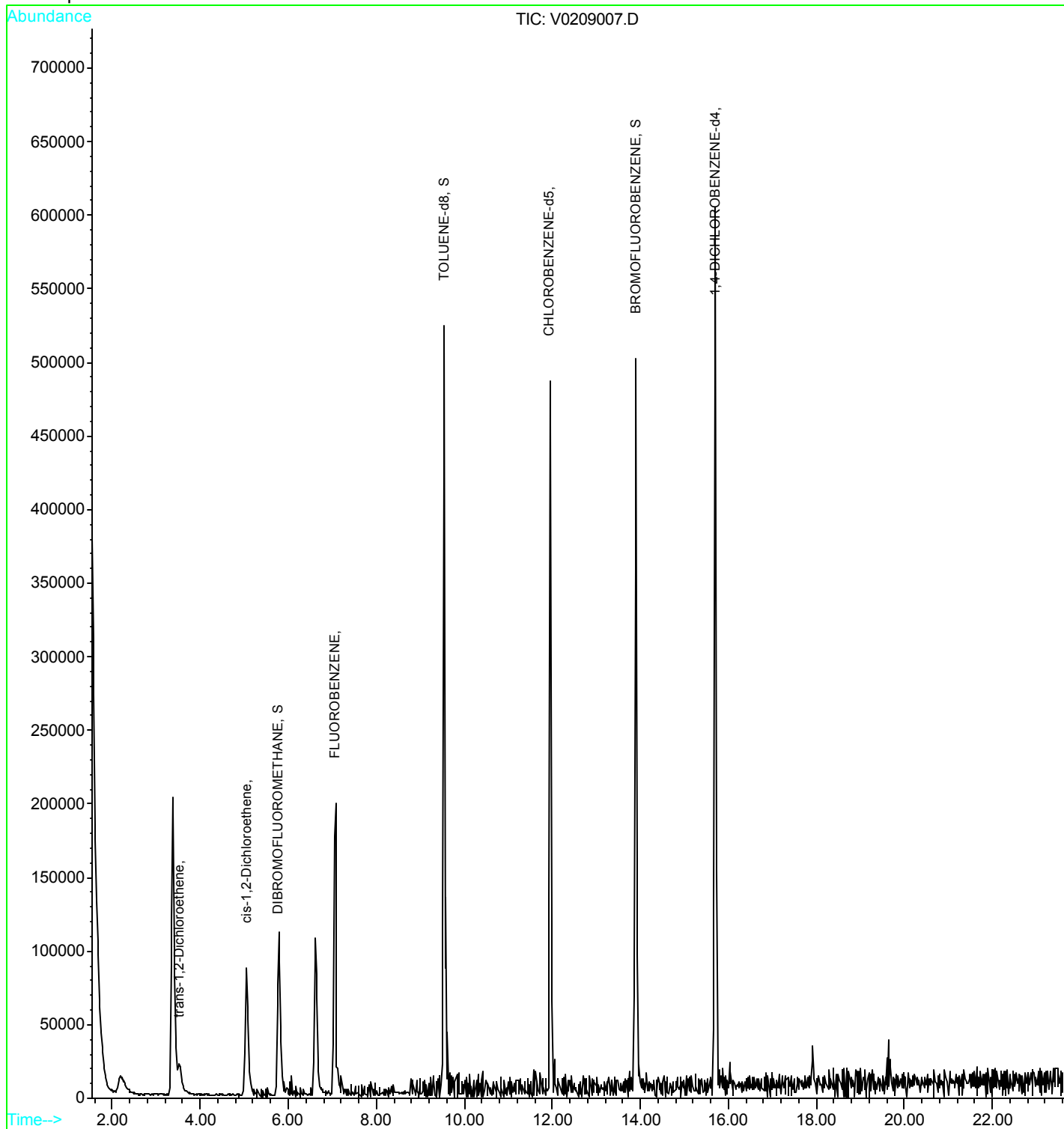
Quant Results File: VOL.RES

Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration



BFB

Data File : C:\HPCHEM\2\DATA\V020909\V0209020.D

Vial: 1

Acq On : 9 Feb 09 10:14 pm

Operator: Stan Hunnicutt

Sample : CCV VOC

Inst : GC/MS Ins

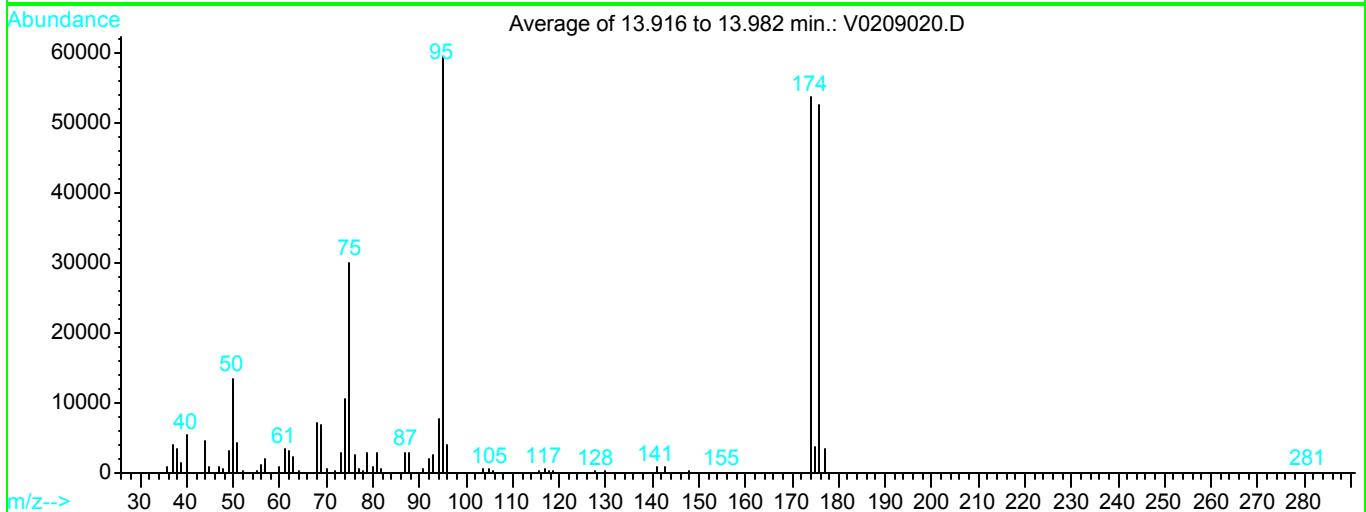
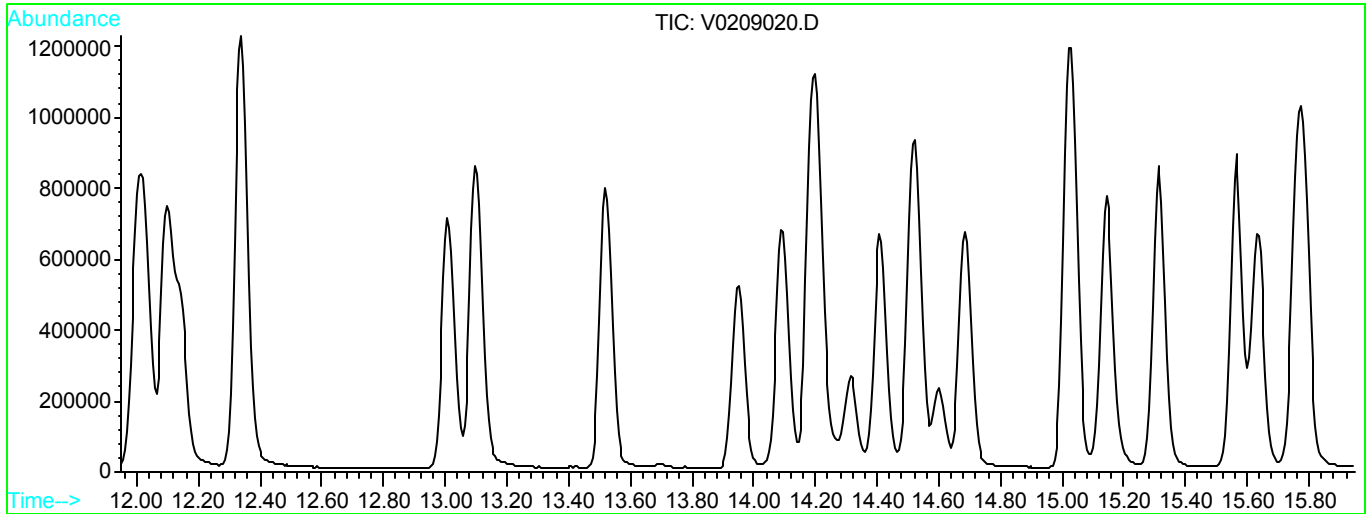
Misc : VOL196 25ul

Multiplr: 1.00

MS Integration Params: events.e

Method : C:\HPCHEM\2\METHODS\GR0.M (Chemstation Integrator)

Title : GR0



Spectrum Information: Average of 13.916 to 13.982 min.

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	22.7	13452	PASS
75	95	30	60	50.7	30034	PASS
95	95	100	100	100.0	59241	PASS
96	95	5	9	6.9	4067	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	90.5	53592	PASS
175	174	5	9	7.2	3840	PASS
176	174	95	101	97.7	52372	PASS
177	176	5	9	6.4	3377	PASS

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V020909\V0209020.D

Vial: 1

Acq On : 9 Feb 09 10:14 pm

Operator: Stan Hunnicutt

Sample : CCV VOC

Inst : GC/MS Ins

Misc : VOL196 25ul

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 9 22:38 19109

Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration

DataAcq Meth : VOL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	7.10	96	4424900	50.00	ug/l	0.07
46) CHLOROBENZENE-d5	12.00	117	4963590	50.00	ug/l	0.06
69) 1,4-DICHLOROBENZENE-d4	15.76	152	2902634	50.00	ug/l	0.07

System Monitoring Compounds

23) DIBROMOFLUOROMETHANE	5.83	113	1463986	55.58	ug/l	0.06
Spiked Amount	50.000		Recovery	=	111.16%	
35) TOLUENE-d8	9.59	98	5219612	48.16	ug/l	0.06
Spiked Amount	50.000		Recovery	=	96.32%	
55) BROMOFLUOROBENZENE	13.95	95	2803111	54.21	ug/l	0.06
Spiked Amount	50.000		Recovery	=	108.42%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.69	85	1903289	51.73	ug/l	97
3) Chloromethane	1.87	50	1384056	65.52	ug/l	98
4) Vinyl_Chloride	1.92	62	1237839	77.56	ug/l	92
5) Bromomethane	2.15	94	529214	94.79	ug/l	99
6) Chloroethane	2.23	64	179130	86.05	ug/l	95
7) Trichlorofluoromethane	2.31	101	447502	106.51	ug/l #	86
8) 1,1-Dichloroethene	2.78	96	457104	67.99	ug/l	91
9) Carbon Disulfide	2.82	76	1371114	66.37	ug/l #	85
10) Iodomethane	2.94	142	1127380	97.13	ug/l	93
11) Acetone	3.51	58	103594	199.90	ug/l	66
12) trans-1,2-Dichloroethene	3.54	96	645717	69.97	ug/l	93
13) n-Hexane	3.61	57	806144	67.69	ug/l	94
14) Methy-tert-butylether(MTBE)	3.73	73	2160962	70.87	ug/l	95
15) 1,1-Dichloroethane	4.30	63	1309139	74.45	ug/l	94
16) Acrylonitrile	4.43	53	225313	85.25	ug/l	92
17) Vinyl_Acetate	4.70	43	2027136	92.59	ug/l	100
18) cis-1,2-Dichloroethene	5.09	96	1044263	62.88	ug/l	93
19) 2,2-Dichloropropane	5.26	77	2059169	65.40	ug/l	99
20) Bromochloromethane	5.40	128	635070	55.19	ug/l #	82
21) Chloroform	5.54	83	2336103	57.68	ug/l	96
22) Carbon_Tetrachloride	5.71	117	2318058	67.67	ug/l	98
24) 1,1,1-Trichloroethane	5.84	97	2385925	59.14	ug/l	96
25) 2-Butanone	6.12	72	341605	127.03	ug/l	82
26) 1,1-Dichloropropene	6.03	75	1862863	54.85	ug/l	96
27) Benzene	6.43	78	4564763	49.56	ug/l	100
28) 1,2-Dichloroethane	6.78	62	2389476	63.81	ug/l	99
29) Trichloroethene	7.36	95	1387428	51.75	ug/l	97
30) Dibromomethane	8.02	93	1024441	54.20	ug/l #	77

(#)= qualifier out of range (m) = manual integration

V0209020.D VOL.M Mon Feb 09 22:42:41 2009

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V020909\V0209020.D

Vial: 1

Acq On : 9 Feb 09 10:14 pm

Operator: Stan Hunnicutt

Sample : CCV VOC

Inst : GC/MS Ins

Misc : VOL196 25ul

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 9 22:38 19109

Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration

DataAcq Meth : VOL

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
31) 1,2-Dichloropropane	8.19	63	1253670	45.05	ug/l	99
32) Bromodichloromethane	8.30	83	2350350	52.70	ug/l	97
33) 2-Chloroethylvinylether	9.67	63	665262	57.59	ug/l #	95
34) cis-1,3-Dichloropropene	9.30	75	2727572	48.95	ug/l	92
36) Toluene	9.66	92	3858916	44.99	ug/l	99
37) Tetrachloroethene	10.24	164	1750382	36.89	ug/l	92
38) 4-Methyl-2-pentanone	10.34	100	664649	101.11	ug/l	84
39) trans-1,3-Dichloropropene	10.34	75	2682298	52.64	ug/l	94
40) 1,1,2-Trichloroethane	10.58	83	1130798	47.07	ug/l	99
41) Ethyl_methacrylate	10.67	69	1032874	47.40	ug/l	94
42) Dibromochloromethane	10.84	129	2338899	53.46	ug/l	99
43) 1,3-Dichloropropane	11.00	76	2756400	47.77	ug/l	100
44) 1,2-Dibromoethane	11.18	107	1721608	47.43	ug/l	99
45) 2-Hexanone	11.65	43	3539333	113.00	ug/l	94
47) Chlorobenzene	12.03	112	5297821	48.51	ug/l	99
48) Ethylbenzene	12.10	91	8391534	49.27	ug/l	100
49) 1,1,1,2-Tetrachloroethane	12.14	131	2149105	48.92	ug/l	97
50) Xylene,m+p	12.34	106	6372658	88.79	ug/l	90
51) Xylene,o	13.01	106	3496477	46.05	ug/l	99
52) Styrene	13.10	104	5759347	47.78	ug/l	90
53) Bromoform	13.10	173	1578331	48.21	ug/l	99
54) Isopropylbenzene	13.52	105	9443846	49.83	ug/l	96
56) Bromobenzene	14.10	156	2514659	45.60	ug/l	89
57) n-Propylbenzene	14.19	91	10333381	49.15	ug/l	97
58) 1,1,2,2-Tetrachloroethane	14.32	83	2036761	47.61	ug/l	99
59) 2-Chlorotoluene	14.41	91	6195906	51.80	ug/l	98
60) 1,3,5-Trimethylbenzene	14.53	105	7322477	50.83	ug/l	99
61) 1,2,3-Trichloropropane	14.69	75	228984	49.93	ug/l	100
62) trans-1,4-Dichloro-2-buten	14.60	53	735519	59.52	ug/l	90
63) 4-Chlorotoluene	14.69	91	6457102	52.44	ug/l	98
64) tert-Butylbenzene	15.03	119	8419780	51.43	ug/l	91
65) 1,2,4-Trimethylbenzene	15.15	105	7597276	50.64	ug/l	98
66) sec-Butylbenzene	15.32	105	11047608	51.03	ug/l	95
67) 4-Isopropyltoluene	15.57	119	9316985	50.52	ug/l	97
68) 1,3-Dichlorobenzene	15.64	146	4766666	46.76	ug/l	96
70) 1,4-Dichlorobenzene	15.79	146	4814441	48.68	ug/l	97
71) n-Butylbenzene	16.26	91	8164422	54.31	ug/l	98
72) 1,2-Dichlorobenzene	16.47	146	4534956	48.18	ug/l	96
73) 1,2-Dibromo-3-chloropropan	17.82	75	394810	53.57	ug/l	83
74) Hexachlorobutadiene	18.94	225	1897497	49.40	ug/l	100
75) 1,2,4-Trichlorobenzene	18.97	180	3713671	47.67	ug/l	99

(#)= qualifier out of range (m)= manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V020909\V0209020.D Vial: 1
 Acq On : 9 Feb 09 10:14 pm Operator: Stan Hunnicutt
 Sample : CCV VOC Inst : GC/MS Ins
 Misc : VOL196 25ul Multiplr: 1.00
 MS Integration Params: events.e
 Quant Time: Feb 9 22:38 19109 Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)
 Title : GCMS VOC Method 8260
 Last Update : Tue Jan 27 12:47:25 2009
 Response via : Initial Calibration
 DataAcq Meth : VOL

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
76) Naphthalene	19.53	128	7424470	46.84 ug/l	100
77) 1,2,3-Trichlorobenzene	19.84	180	3295058	45.80 ug/l	99

Quantitation Report

Data File : C:\HPCHEM\2\DATA\V020909\V0209020.D

Vial: 1

Acq On : 9 Feb 09 10:14 pm

Operator: Stan Hunnicutt

Sample : CCV VOC

Inst : GC/MS Ins

Misc : VOL196 25ul

Multiplr: 1.00

MS Integration Params: events.e

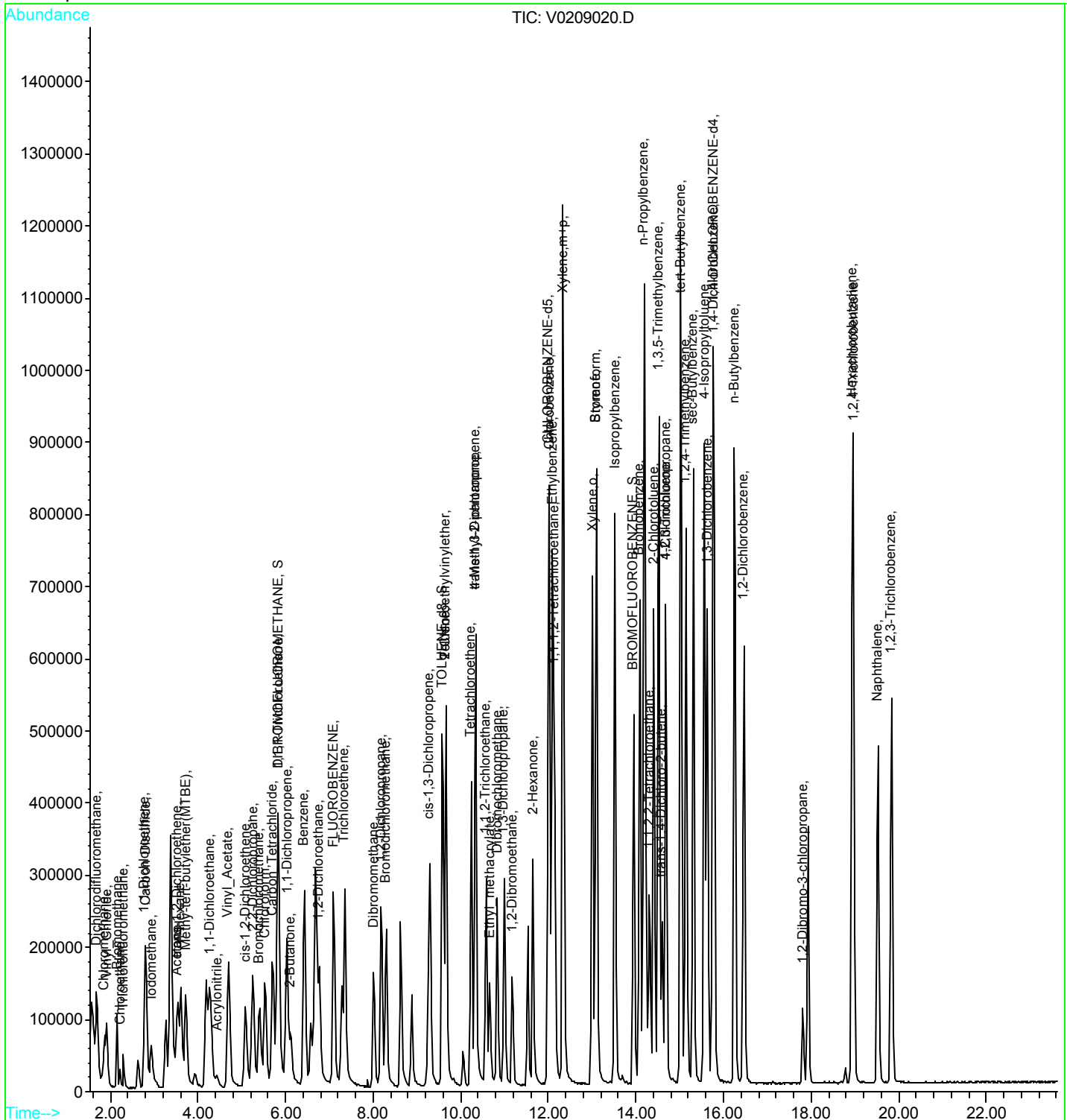
Quant Results File: VOL.RES

Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V020909\V0209022.D Vial: 3
 Acq On : 9 Feb 09 11:15 pm Operator: Stan Hunnicutt
 Sample : w09-0096 500ul/5ml H2O Inst : GC/MS Ins
 Misc : Multiplr: 1.00
 MS Integration Params: events.e
 Quant Time: Feb 10 10:30 19109 Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)
 Title : GCMS VOC Method 8260
 Last Update : Tue Jan 27 12:47:25 2009
 Response via : Initial Calibration
 DataAcq Meth : VOL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	7.11	96	4350079	50.00	ug/l	0.07
46) CHLOROBENZENE-d5	12.00	117	4590375	50.00	ug/l	0.06
69) 1,4-DICHLOROBENZENE-d4	15.75	152	2804707	50.00	ug/l	0.05
System Monitoring Compounds						
23) DIBROMOFLUOROMETHANE	5.83	113	1650271	63.73	ug/l	0.06
Spiked Amount 50.000			Recovery	=	127.46%	
35) TOLUENE-d8	9.59	98	5222470	49.02	ug/l	0.06
Spiked Amount 50.000			Recovery	=	98.04%	
55) BROMOFLUOROBENZENE	13.94	95	2507274	52.43	ug/l	0.06
Spiked Amount 50.000			Recovery	=	104.86%	
Target Compounds						
18) cis-1,2-Dichloroethene	5.11	96	429663	26.57	ug/l	Qvalue 99

Quantitation Report

Data File : C:\HPCHEM\2\DATA\V020909\V0209022.D

Vial: 3

Acq On : 9 Feb 09 11:15 pm

Operator: Stan Hunnicutt

Sample : w09-0096 500ul/5ml H2O

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 10 10:30 19109

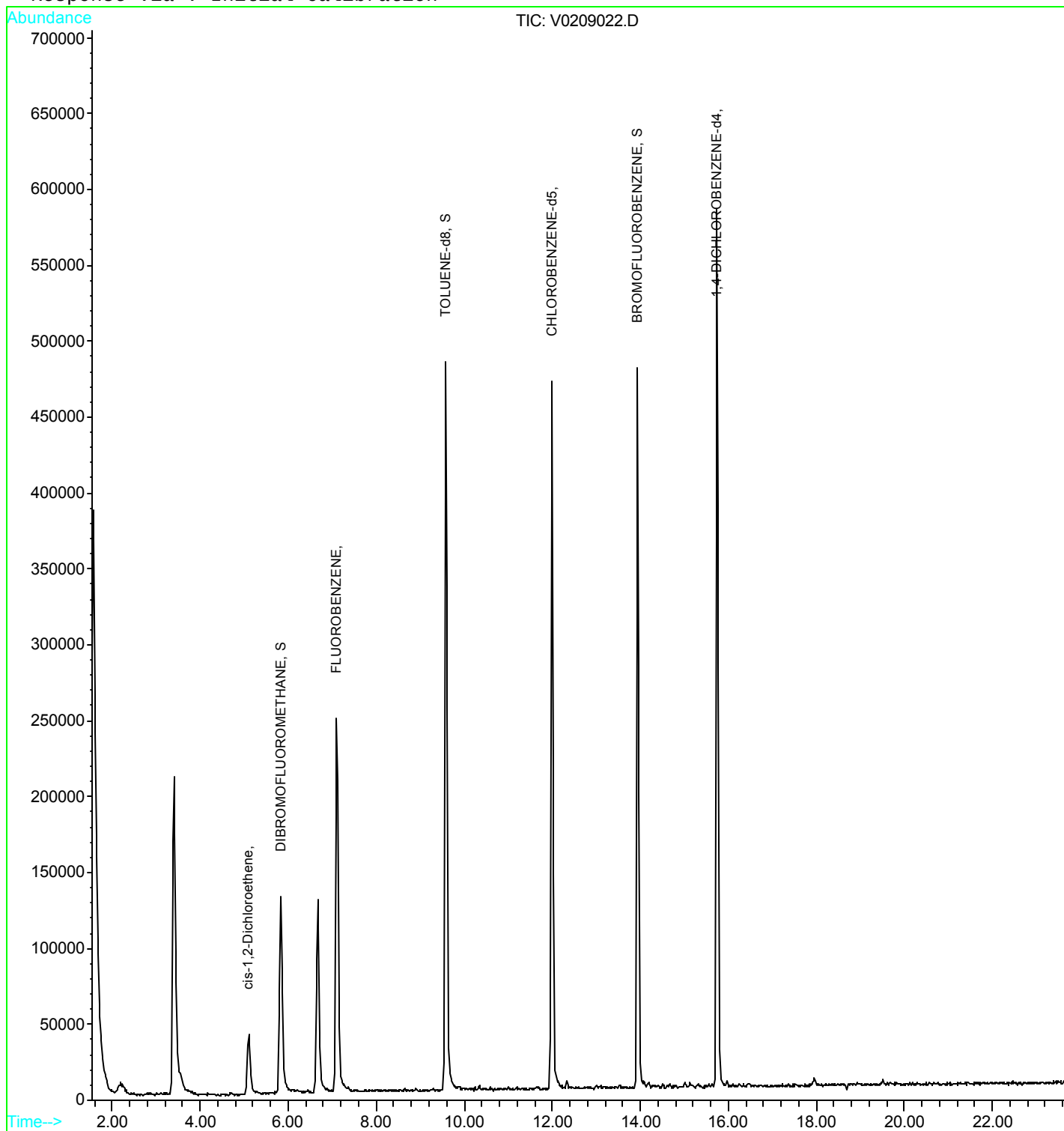
Quant Results File: VOL.RES

Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration



BFB

Data File : C:\HPCHEM\2\DATA\V021109\V0211001.D

Vial: 1

Acq On : 11 Feb 09 2:53 pm

Operator: Stan Hunnicutt

Sample : CCV VOC

Inst : GC/MS Ins

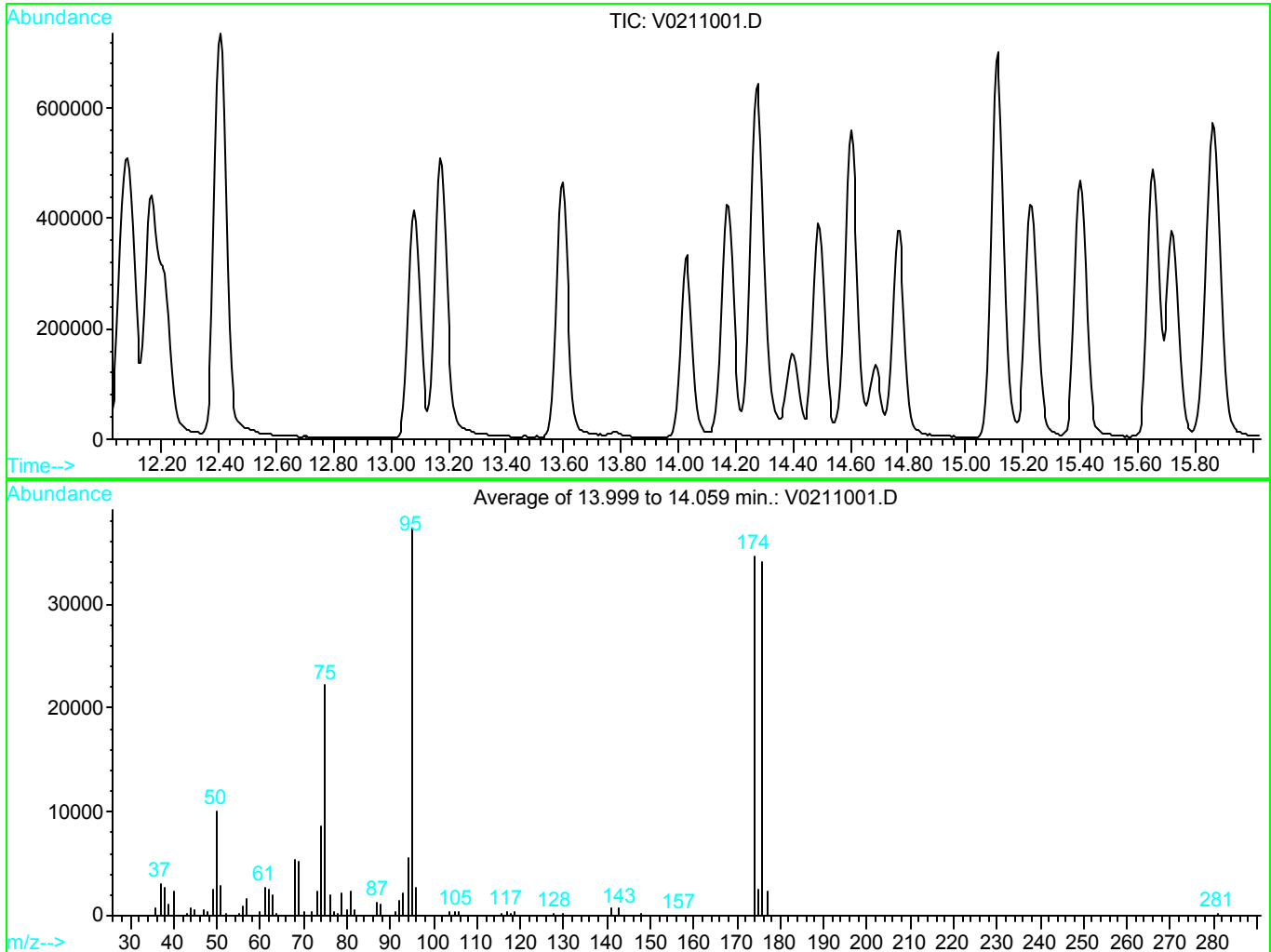
Misc : VOL196 25ul

Multiplr: 1.00

MS Integration Params: events.e

Method : C:\HPCHEM\2\METHODS\GR0.M (Chemstation Integrator)

Title : GR0



Spectrum Information: Average of 13.999 to 14.059 min.

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	27.0	10037	PASS
75	95	30	60	59.6	22178	PASS
95	95	100	100	100.0	37188	PASS
96	95	5	9	7.1	2638	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	93.2	34644	PASS
175	174	5	9	7.1	2469	PASS
176	174	95	101	98.3	34055	PASS
177	176	5	9	6.6	2256	PASS

Data File : C:\HPCHEM\2\DATA\V021109\V0211001.D

Vial: 1

Acq On : 11 Feb 09 2:53 pm

Operator: Stan Hunnicutt

Sample : CCV VOC

Inst : GC/MS Ins

Misc : VOL196 25ul

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 11 15:17 19109

Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration

DataAcq Meth : VOL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	7.13	96	2052727	50.00	ug/l	0.09
46) CHLOROBENZENE-d5	12.07	117	2708910	50.00	ug/l	0.13
69) 1,4-DICHLOROBENZENE-d4	15.85	152	1523789	50.00	ug/l	0.16

System Monitoring Compounds

23) DIBROMOFLUOROMETHANE	5.85	113	781686	63.97	ug/l	0.08
Spiked Amount	50.000		Recovery	=	127.94%	
35) TOLUENE-d8	9.63	98	2963862	58.95	ug/l	0.11
Spiked Amount	50.000		Recovery	=	117.90%	
55) BROMOFLUOROBENZENE	14.03	95	1681040	59.57	ug/l	0.14
Spiked Amount	50.000		Recovery	=	119.14%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.69	85	1458500	85.46	ug/l	99
3) Chloromethane	1.88	50	938322	95.75	ug/l	98
4) Vinyl_Chloride	1.92	62	941366	127.15	ug/l	95
5) Bromomethane	2.16	94	552579	213.36	ug/l	98
6) Chloroethane	2.23	64	195367	213.43	ug/l	100
7) Trichlorofluoromethane	2.31	101	369887	204.99	ug/l	98
8) 1,1-Dichloroethene	2.68	96	160603	51.49	ug/l #	75
9) Carbon Disulfide	2.69	76	636111	66.38	ug/l	97
10) Iodomethane	2.83	142	604633	112.29	ug/l #	79
11) Acetone	3.53	58	147352	612.91	ug/l	85
12) trans-1,2-Dichloroethene	3.49	96	412658	96.39	ug/l	84
13) n-Hexane	3.54	57	541850	98.07	ug/l	98
14) Methy-tert-butylether(MTBE)	3.74	73	1725309	121.97	ug/l	100
15) 1,1-Dichloroethane	4.28	63	1015491	124.49	ug/l	96
16) Acrylonitrile	4.46	53	129394	106.41	ug/l #	61
17) Vinyl_Acetate	4.73	43	1709172	168.29	ug/l	100
18) cis-1,2-Dichloroethene	5.10	96	520229	67.49	ug/l #	71
19) 2,2-Dichloropropane	5.26	77	1549131	106.07	ug/l	94
20) Bromochloromethane	5.42	128	320969	60.13	ug/l #	74
21) Chloroform	5.55	83	1352716	72.00	ug/l	98
22) Carbon_Tetrachloride	5.71	117	1544423	97.19	ug/l	98
24) 1,1,1-Trichloroethane	5.84	97	1612553	86.16	ug/l	98
25) 2-Butanone	6.19	72	118180	94.74	ug/l #	1
26) 1,1-Dichloropropene	6.04	75	971383	61.66	ug/l #	93
27) Benzene	6.45	78	1947711	45.58	ug/l	100
28) 1,2-Dichloroethane	6.81	62	1680451	96.74	ug/l #	90
29) Trichloroethene	7.39	95	819612	66.33	ug/l	86
30) Dibromomethane	8.06	93	616943	70.36	ug/l	85

(#)= qualifier out of range (m)= manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V021109\V0211001.D

Vial: 1

Acq On : 11 Feb 09 2:53 pm

Operator: Stan Hunnicutt

Sample : CCV VOC

Inst : GC/MS Ins

Misc : VOL196 25ul

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 11 15:17 19109

Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration

DataAcq Meth : VOL

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
31) 1,2-Dichloropropane	8.23	63	664527	51.48	ug/l	96
32) Bromodichloromethane	8.35	83	1625892	78.58	ug/l	98
33) 2-Chloroethylvinylether	9.71	63	466930	87.13	ug/l #	82
34) cis-1,3-Dichloropropene	9.35	75	1632943	63.17	ug/l #	76
36) Toluene	9.72	92	1975987	49.66	ug/l	99
37) Tetrachloroethene	10.30	164	1112183	50.52	ug/l	91
38) 4-Methyl-2-pentanone	10.41	100	354147	116.13	ug/l	72
39) trans-1,3-Dichloropropene	10.40	75	1793221	75.86	ug/l #	83
40) 1,1,2-Trichloroethane	10.65	83	596072	53.49	ug/l	99
41) Ethyl_methacrylate	10.73	69	591198	58.48	ug/l	93
42) Dibromochloromethane	10.90	129	1496159	73.71	ug/l	99
43) 1,3-Dichloropropane	11.06	76	1529215	57.13	ug/l	98
44) 1,2-Dibromoethane	11.24	107	979960	58.19	ug/l	94
45) 2-Hexanone	11.73	43	1921190	132.22	ug/l	89
47) Chlorobenzene	12.09	112	2799637	46.97	ug/l	93
48) Ethylbenzene	12.16	91	4744976	51.05	ug/l	95
49) 1,1,1,2-Tetrachloroethane	12.21	131	1431467	59.71	ug/l	94
50) Xylene,m+p	12.41	106	3253833	83.07	ug/l	93
51) Xylene,o	13.08	106	1797815	43.38	ug/l	84
52) Styrene	13.17	104	2771012	42.12	ug/l	93
53) Bromoform	13.18	173	1068471	59.80	ug/l	100
54) Isopropylbenzene	13.60	105	5364432	51.87	ug/l	92
56) Bromobenzene	14.17	156	1466881	48.74	ug/l	91
57) n-Propylbenzene	14.27	91	5574788	48.59	ug/l	95
58) 1,1,2,2-Tetrachloroethane	14.40	83	1006016	43.09	ug/l	97
59) 2-Chlorotoluene	14.49	91	3433621	52.60	ug/l	92
60) 1,3,5-Trimethylbenzene	14.61	105	4128692	52.52	ug/l	93
61) 1,2,3-Trichloropropane	14.76	75	181963	72.70	ug/l	100
62) trans-1,4-Dichloro-2-buten	14.69	53	494485	73.32	ug/l #	64
63) 4-Chlorotoluene	14.77	91	3526115	52.47	ug/l	92
64) tert-Butylbenzene	15.11	119	4553038	50.96	ug/l	98
65) 1,2,4-Trimethylbenzene	15.23	105	4137796	50.54	ug/l	92
66) sec-Butylbenzene	15.40	105	5626660	47.62	ug/l	94
67) 4-Isopropyltoluene	15.66	119	4960417	49.29	ug/l	95
68) 1,3-Dichlorobenzene	15.72	146	2388426	42.93	ug/l	95
70) 1,4-Dichlorobenzene	15.88	146	2427623	46.76	ug/l #	92
71) n-Butylbenzene	16.35	91	4199436	53.22	ug/l	96
72) 1,2-Dichlorobenzene	16.57	146	2324309	47.04	ug/l #	95
73) 1,2-Dibromo-3-chloropropan	17.93	75	251597	65.03	ug/l #	73
74) Hexachlorobutadiene	19.07	225	1395190	69.18	ug/l	99
75) 1,2,4-Trichlorobenzene	19.10	180	2209671	54.03	ug/l	99

(#)= qualifier out of range (m)= manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V021109\V0211001.D Vial: 1
Acq On : 11 Feb 09 2:53 pm Operator: Stan Hunnicutt
Sample : CCV VOC Inst : GC/MS Ins
Misc : VOL196 25ul Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Feb 11 15:17 19109 Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)
Title : GCMS VOC Method 8260
Last Update : Tue Jan 27 12:47:25 2009
Response via : Initial Calibration
DataAcq Meth : VOL

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
76) Naphthalene	19.66	128	4060059	48.79 ug/l	100
77) 1,2,3-Trichlorobenzene	19.98	180	2027938	53.69 ug/l	99

Quantitation Report

Data File : C:\HPCHEM\2\DATA\V021109\V0211001.D

Vial: 1

Acq On : 11 Feb 09 2:53 pm

Operator: Stan Hunnicutt

Sample : CCV VOC

Inst : GC/MS Ins

Misc : VOL196 25ul

Multiplr: 1.00

MS Integration Params: events.e

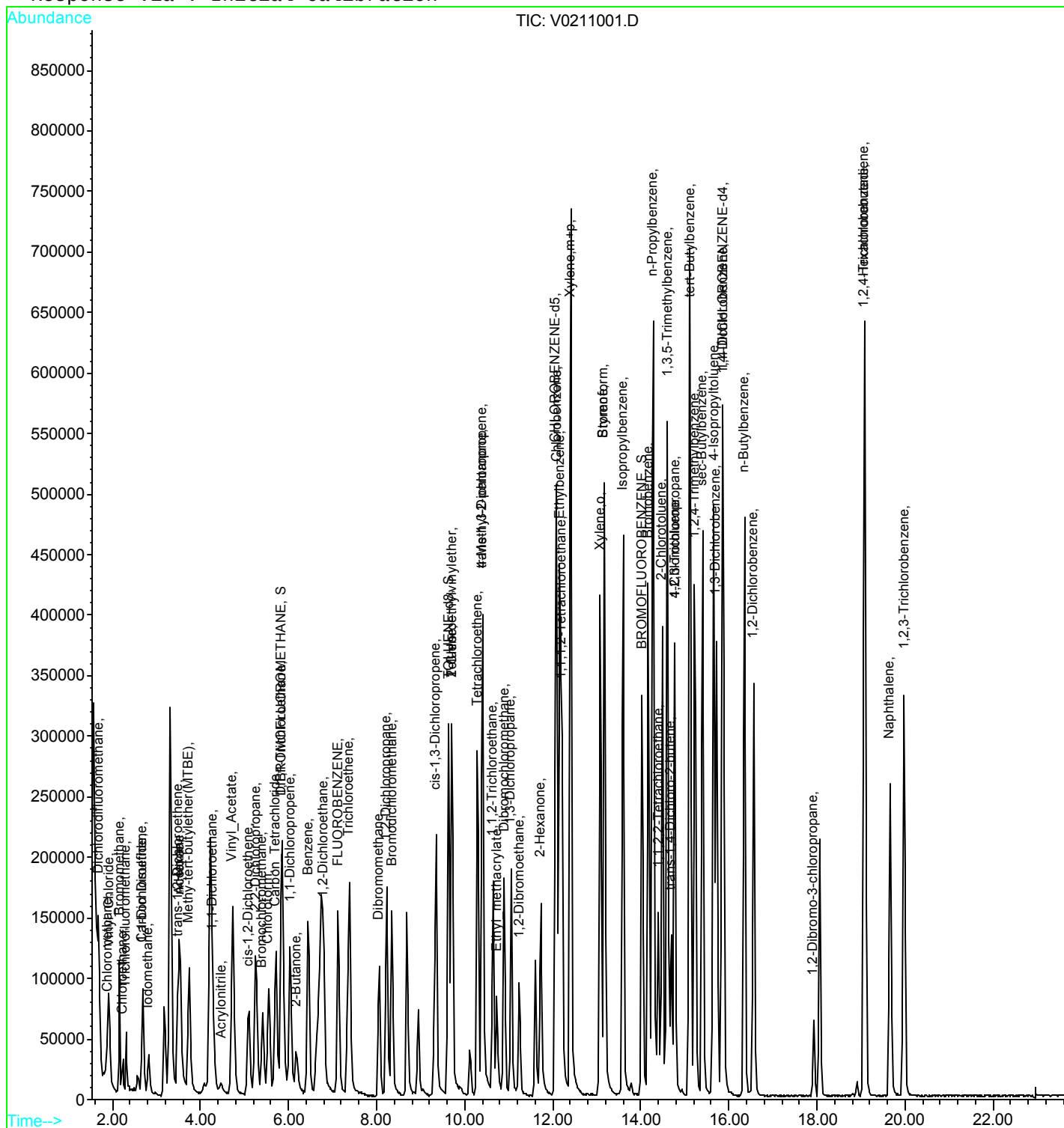
Quant Results File: VOL.RES

Method : C:\HPCHEM\2\METHODS\GRO.M (Chemstation Integrator)

Title : GRO

Last Update : Sun Jan 18 10:29:09 2009

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V021109\V0211003.D Vial: 3
Acq On : 11 Feb 09 3:52 pm Operator: Stan Hunnicutt
Sample : s09-0092 5.28g/5ml CH3OH 200ul Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Feb 11 16:16 19109 Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)
Title : GCMS VOC Method 8260
Last Update : Tue Jan 27 12:47:25 2009
Response via : Initial Calibration
DataAcq Meth : VOL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	7.14	96	2053397	50.00	ug/l	0.10
46) CHLOROBENZENE-d5	12.08	117	2455989	50.00	ug/l	0.14
69) 1,4-DICHLOROBENZENE-d4	15.84	152	1676076	50.00	ug/l	0.14
System Monitoring Compounds						
23) DIBROMOFLUOROMETHANE	5.86	113	917926	75.09	ug/l	0.09
Spiked Amount	50.000		Recovery	=	150.18%	
35) TOLUENE-d8	9.64	98	2709599	53.88	ug/l	0.12
Spiked Amount	50.000		Recovery	=	107.76%	
55) BROMOFLUOROBENZENE	14.03	95	1503313	58.76	ug/l	0.14
Spiked Amount	50.000		Recovery	=	117.52%	
Target Compounds						
37) Tetrachloroethene	10.30	164	5071803	230.31	ug/l	Qvalue 90

Quantitation Report

Data File : C:\HPCHEM\2\DATA\V021109\V0211003.D

Vial: 3

Acq On : 11 Feb 09 3:52 pm

Operator: Stan Hunnicutt

Sample : s09-0092 5.28g/5ml CH3OH 200ul

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 11 16:16 19109

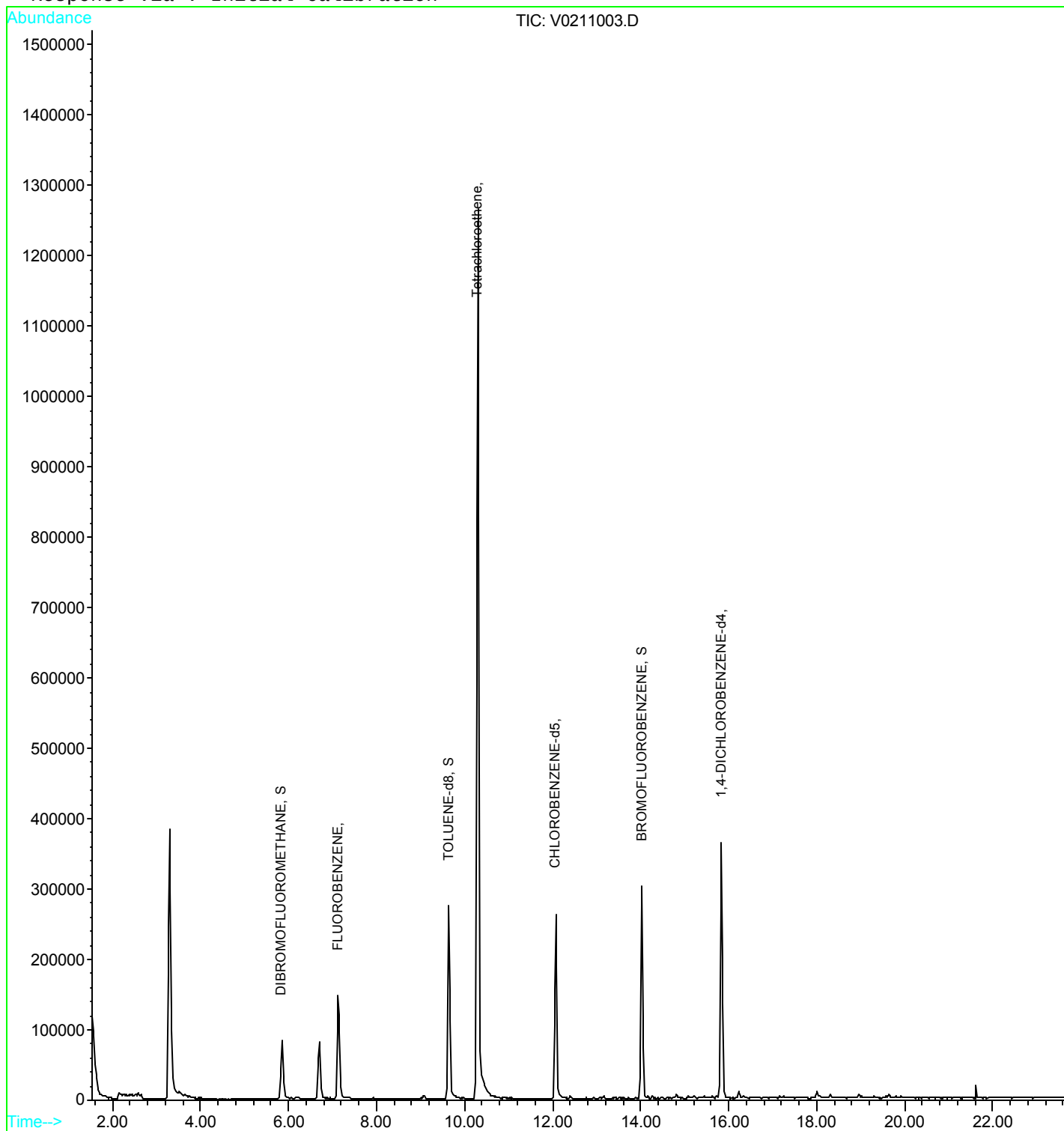
Quant Results File: VOL.RES

Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V021109\V0211004.D Vial: 4
Acq On : 11 Feb 09 4:22 pm Operator: Stan Hunnicutt
Sample : s09-0093 5.66g/5ml CH3OH 200ul Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Feb 11 17:47 19109 Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)
Title : GCMS VOC Method 8260
Last Update : Tue Jan 27 12:47:25 2009
Response via : Initial Calibration
DataAcq Meth : VOL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	7.14	96	2156882	50.00	ug/l	0.10
46) CHLOROBENZENE-d5	12.07	117	2652801	50.00	ug/l	0.13
69) 1,4-DICHLOROBENZENE-d4	15.84	152	1775188	50.00	ug/l	0.14
System Monitoring Compounds						
23) DIBROMOFLUOROMETHANE	5.86	113	966397	75.27	ug/l	0.09
Spiked Amount	50.000		Recovery	=	150.54%	
35) TOLUENE-d8	9.64	98	2837264	53.71	ug/l	0.12
Spiked Amount	50.000		Recovery	=	107.42%	
55) BROMOFLUOROBENZENE	14.03	95	1616295	58.49	ug/l	0.14
Spiked Amount	50.000		Recovery	=	116.98%	
Target Compounds						
37) Tetrachloroethene	10.30	164	3566403	154.18	ug/l	Qvalue 91

Quantitation Report

Data File : C:\HPCHEM\2\DATA\V021109\V0211004.D

Vial: 4

Acq On : 11 Feb 09 4:22 pm

Operator: Stan Hunnicutt

Sample : s09-0093 5.66g/5ml CH3OH 200ul

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 11 17:47 19109

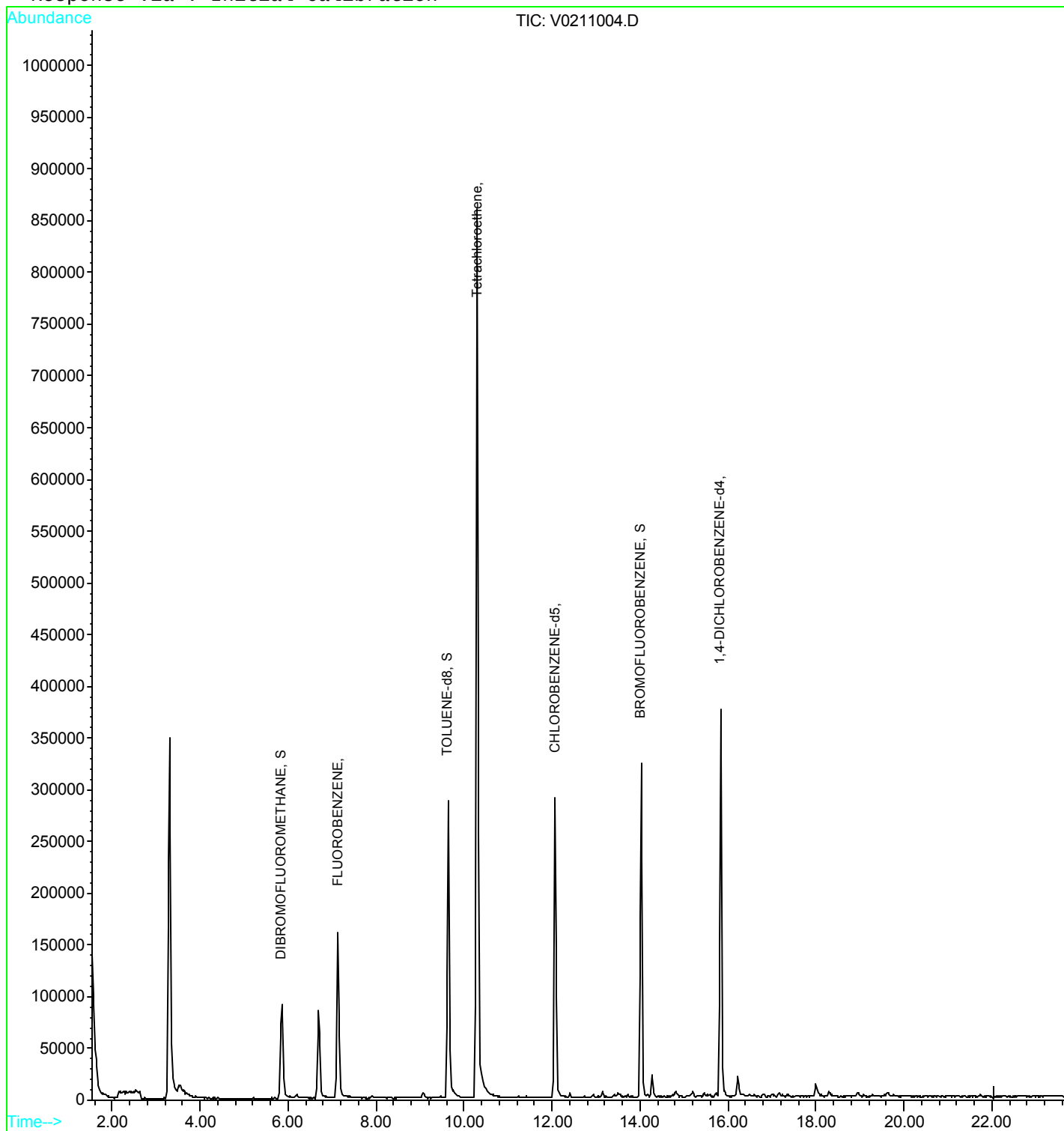
Quant Results File: VOL.RES

Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V021109\V0211005.D Vial: 5
Acq On : 11 Feb 09 4:52 pm Operator: Stan Hunnicutt
Sample : s09-0095 5.12g/5ml CH3OH 200ul Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Feb 11 17:49 19109 Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)
Title : GCMS VOC Method 8260
Last Update : Tue Jan 27 12:47:25 2009
Response via : Initial Calibration
DataAcq Meth : VOL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	7.13	96	2204607	50.00	ug/l	0.09
46) CHLOROBENZENE-d5	12.07	117	2472120	50.00	ug/l	0.13
69) 1,4-DICHLOROBENZENE-d4	15.84	152	1669182	50.00	ug/l	0.14
System Monitoring Compounds						
23) DIBROMOFLUOROMETHANE	5.86	113	971143	74.00	ug/l	0.09
Spiked Amount	50.000		Recovery	=	148.00%	
35) TOLUENE-d8	9.64	98	2795151	51.77	ug/l	0.12
Spiked Amount	50.000		Recovery	=	103.54%	
55) BROMOFLUOROBENZENE	14.03	95	1507932	58.55	ug/l	0.14
Spiked Amount	50.000		Recovery	=	117.10%	
Target Compounds						
37) Tetrachloroethene	10.30	164	7416401	313.68	ug/l	Qvalue 93

Quantitation Report

Data File : C:\HPCHEM\2\DATA\V021109\V0211005.D

Vial: 5

Acq On : 11 Feb 09 4:52 pm

Operator: Stan Hunnicutt

Sample : s09-0095 5.12g/5ml CH3OH 200ul

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 11 17:49 19109

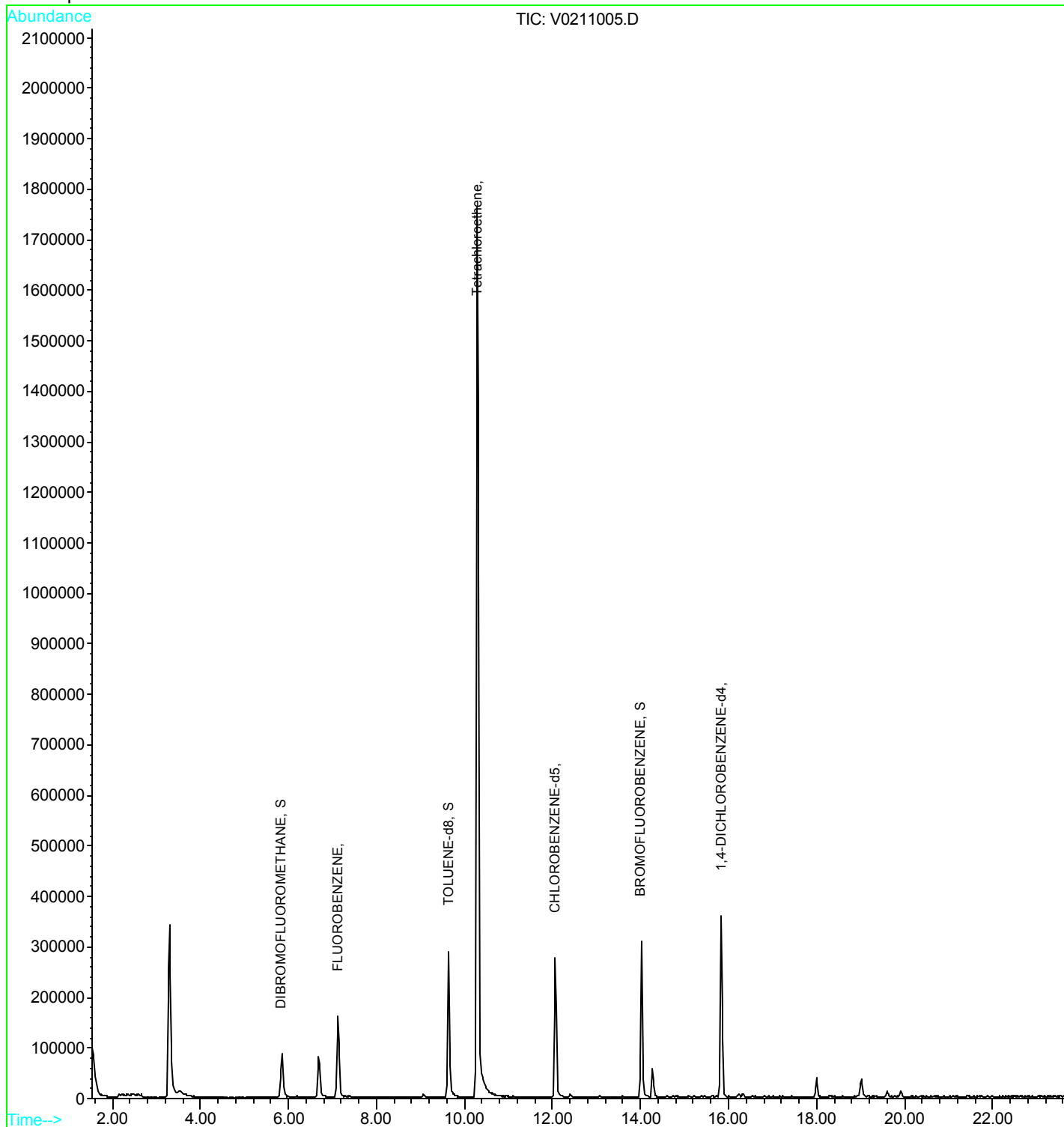
Quant Results File: VOL.RES

Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V021109\V0211014.D Vial: 14
Acq On : 11 Feb 09 9:20 pm Operator: Stan Hunnicutt
Sample : s09-0092 5.28g/5ml CH3OH 25ul Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Feb 12 11:42 19109 Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)
Title : GCMS VOC Method 8260
Last Update : Tue Jan 27 12:47:25 2009
Response via : Initial Calibration
DataAcq Meth : VOL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	7.15	96	3222206	50.00	ug/l	0.12
46) CHLOROBENZENE-d5	12.04	117	3238110	50.00	ug/l	0.10
69) 1,4-DICHLOROBENZENE-d4	15.80	152	2157254	50.00	ug/l	0.10
System Monitoring Compounds						
23) DIBROMOFLUOROMETHANE	5.88	113	1498179	78.11	ug/l	0.11
Spiked Amount	50.000		Recovery	=	156.22%	
35) TOLUENE-d8	9.63	98	3889644	49.29	ug/l	0.11
Spiked Amount	50.000		Recovery	=	98.58%	
55) BROMOFLUOROBENZENE	13.99	95	1945224	57.66	ug/l	0.10
Spiked Amount	50.000		Recovery	=	115.32%	
Target Compounds						
37) Tetrachloroethene	10.29	164	1076313	31.15	ug/l	Qvalue 91

Quantitation Report

Data File : C:\HPCHEM\2\DATA\V021109\V0211014.D

Vial: 14

Acq On : 11 Feb 09 9:20 pm

Operator: Stan Hunnicutt

Sample : s09-0092 5.28g/5ml CH3OH 25ul

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 12 11:42 19109

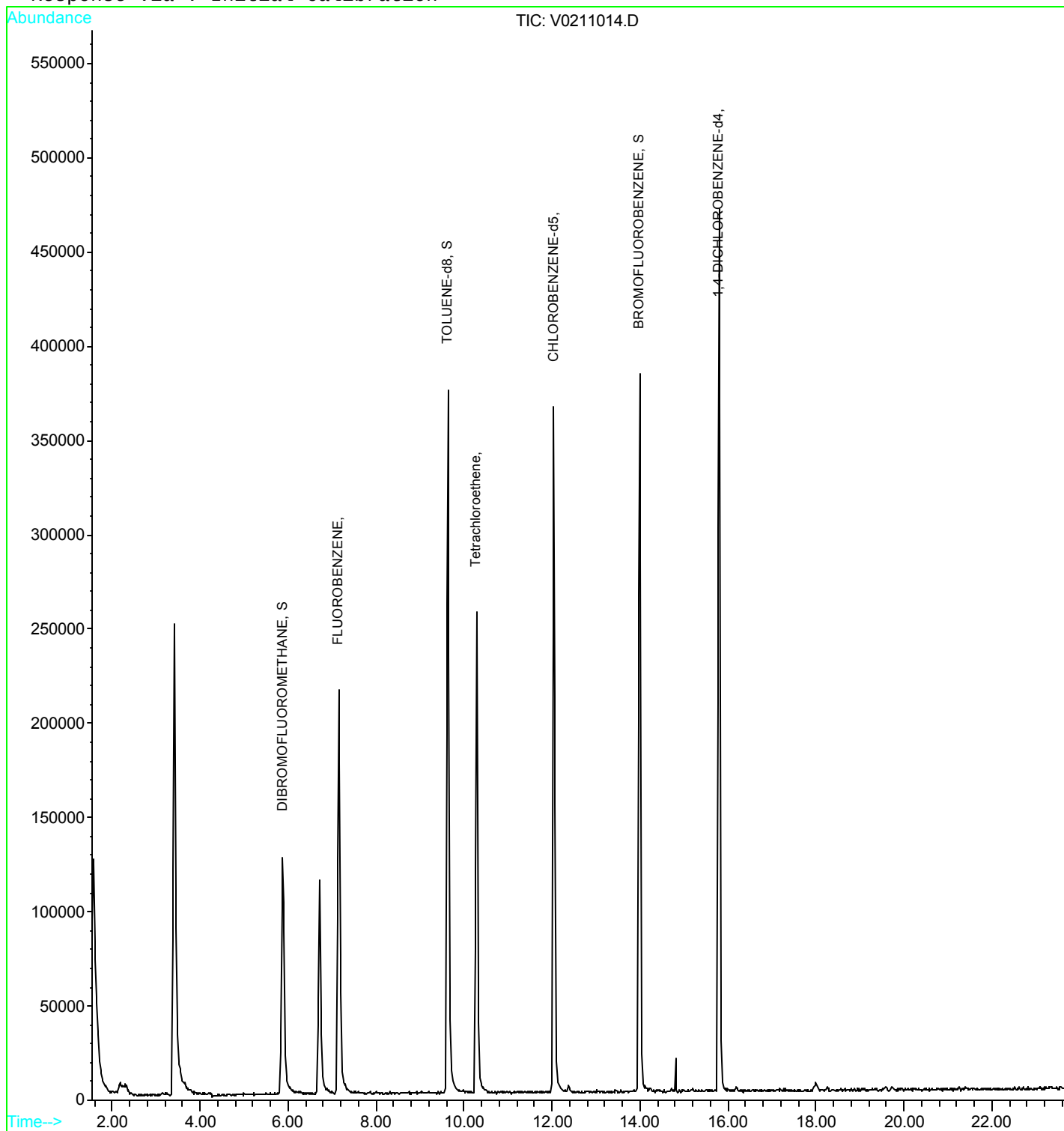
Quant Results File: VOL.RES

Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V021109\V0211015.D Vial: 15
Acq On : 11 Feb 09 9:49 pm Operator: Stan Hunnicutt
Sample : s09-0093 5.66g/5ml CH3OH 25ul Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Feb 12 11:43 19109 Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)
Title : GCMS VOC Method 8260
Last Update : Tue Jan 27 12:47:25 2009
Response via : Initial Calibration
DataAcq Meth : VOL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	7.15	96	3000465	50.00	ug/l	0.11
46) CHLOROBENZENE-d5	12.04	117	3247316	50.00	ug/l	0.10
69) 1,4-DICHLOROBENZENE-d4	15.79	152	2059291	50.00	ug/l	0.09
System Monitoring Compounds						
23) DIBROMOFLUOROMETHANE	5.87	113	1509119	84.49	ug/l	0.11
Spiked Amount	50.000		Recovery	=	168.98%	
35) TOLUENE-d8	9.63	98	3596837	48.95	ug/l	0.10
Spiked Amount	50.000		Recovery	=	97.90%	
55) BROMOFLUOROBENZENE	13.98	95	1955739	57.81	ug/l	0.09
Spiked Amount	50.000		Recovery	=	115.62%	
Target Compounds						
37) Tetrachloroethene	10.28	164	627140	19.49	ug/l #	Qvalue 85

Quantitation Report

Data File : C:\HPCHEM\2\DATA\V021109\V0211015.D

Vial: 15

Acq On : 11 Feb 09 9:49 pm

Operator: Stan Hunnicutt

Sample : s09-0093 5.66g/5ml CH3OH 25ul

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 12 11:43 19109

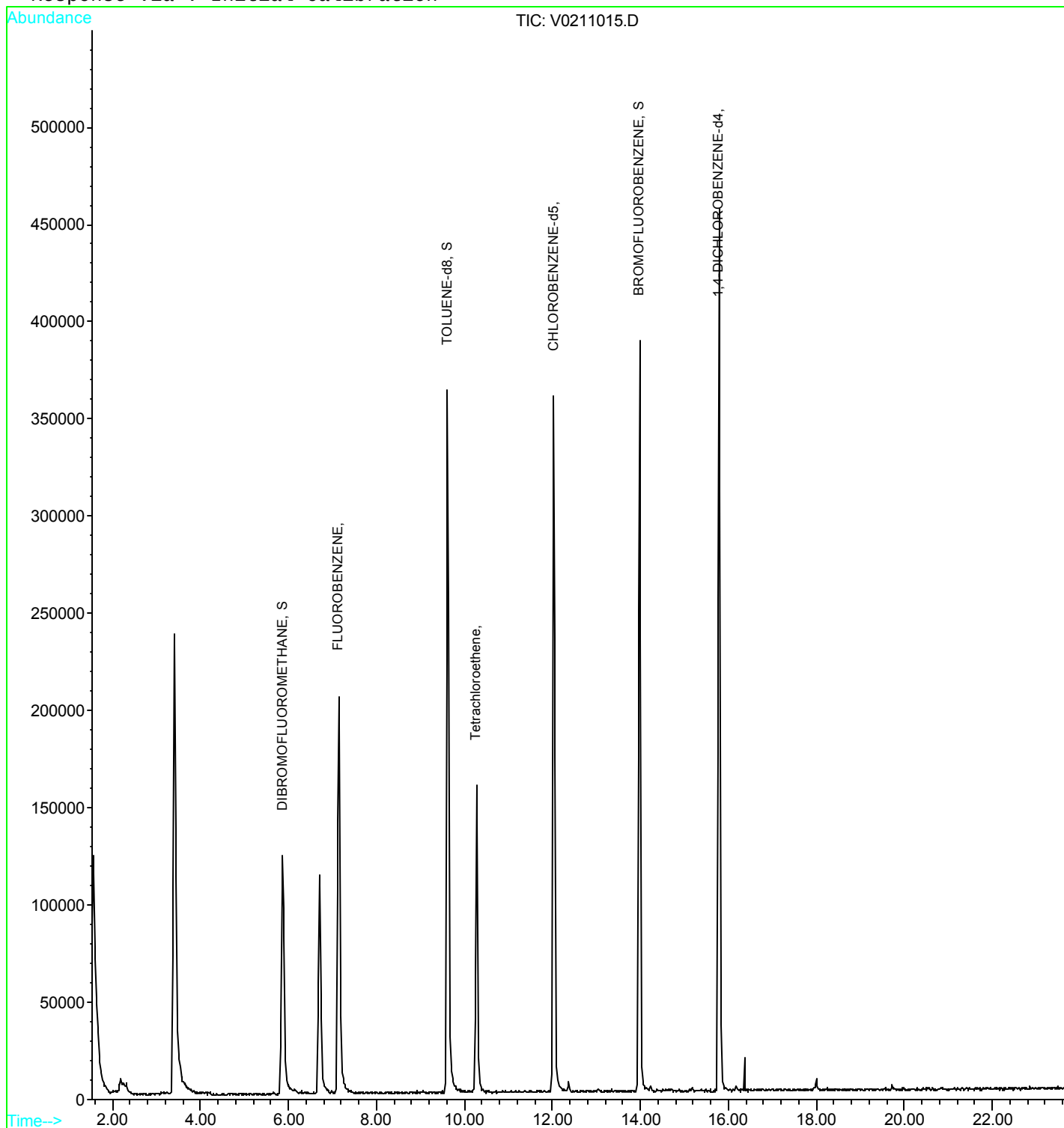
Quant Results File: VOL.RES

Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\V021109\V0211016.D Vial: 16
Acq On : 11 Feb 09 10:19 pm Operator: Stan Hunnicutt
Sample : s09-0095 5.12g/5ml CH3OH 25ul Inst : GC/MS Ins
Misc : Multiplr: 1.00
MS Integration Params: events.e
Quant Time: Feb 12 11:44 19109 Quant Results File: VOL.RES

Quant Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)
Title : GCMS VOC Method 8260
Last Update : Tue Jan 27 12:47:25 2009
Response via : Initial Calibration
DataAcq Meth : VOL

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	7.15	96	2709912	50.00	ug/l	0.11
46) CHLOROBENZENE-d5	12.03	117	2889465	50.00	ug/l	0.09
69) 1,4-DICHLOROBENZENE-d4	15.79	152	1846908	50.00	ug/l	0.09
System Monitoring Compounds						
23) DIBROMOFLUOROMETHANE	5.87	113	1323964	82.07	ug/l	0.10
Spiked Amount	50.000		Recovery	=	164.14%	
35) TOLUENE-d8	9.62	98	3289518	49.56	ug/l	0.10
Spiked Amount	50.000		Recovery	=	99.12%	
55) BROMOFLUOROBENZENE	13.98	95	1741996	57.87	ug/l	0.09
Spiked Amount	50.000		Recovery	=	115.74%	
Target Compounds						
37) Tetrachloroethene	10.28	164	1196973	41.19	ug/l	Qvalue # 86

Quantitation Report

Data File : C:\HPCHEM\2\DATA\V021109\V0211016.D

Vial: 16

Acq On : 11 Feb 09 10:19 pm

Operator: Stan Hunnicutt

Sample : s09-0095 5.12g/5ml CH3OH 25ul

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

MS Integration Params: events.e

Quant Time: Feb 12 11:44 19109

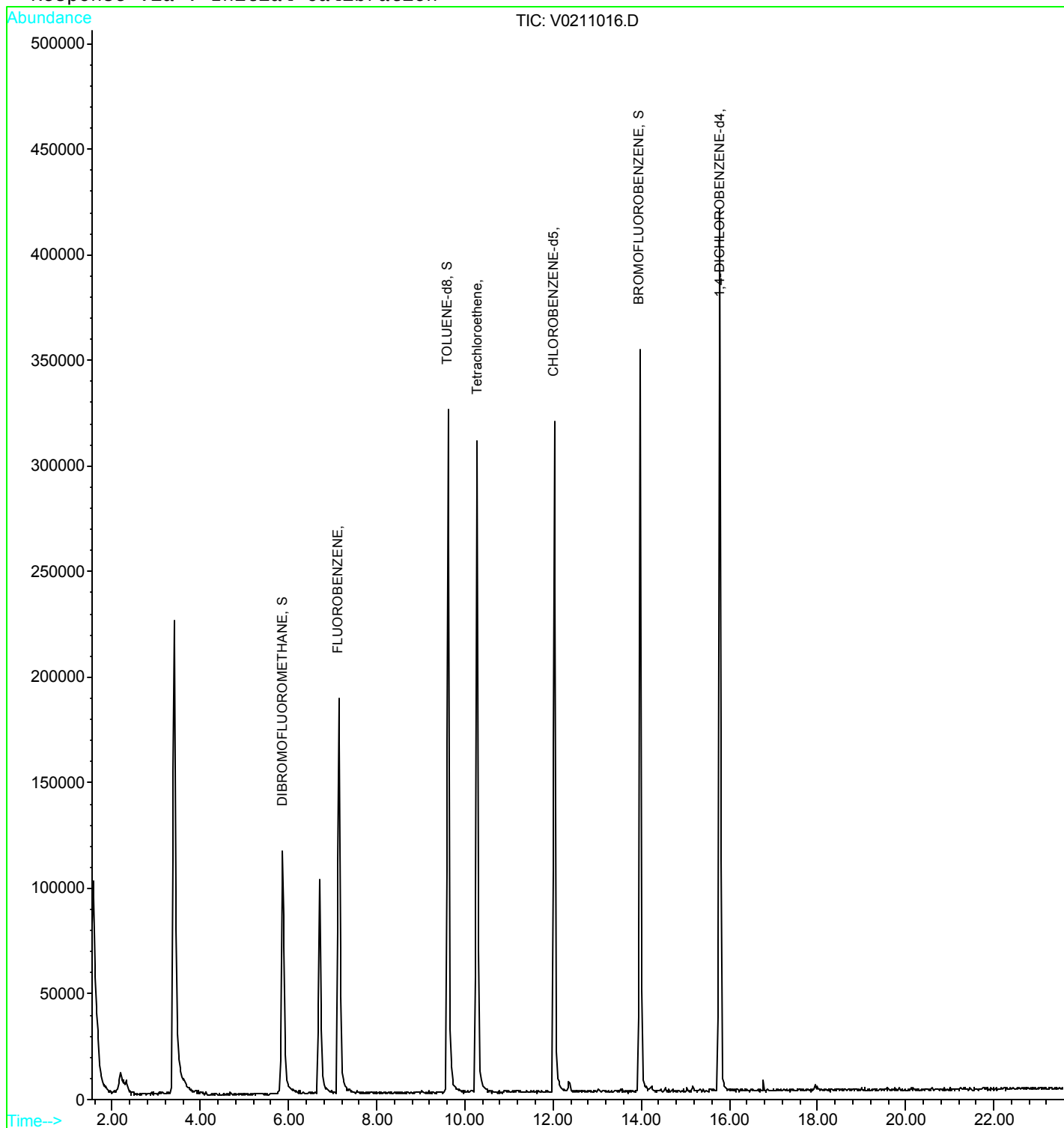
Quant Results File: VOL.RES

Method : C:\HPCHEM\2\METHODS\VOL.M (Chemstation Integrator)

Title : GCMS VOC Method 8260

Last Update : Tue Jan 27 12:47:25 2009

Response via : Initial Calibration



Initial Weigh Time:	2/5/2009 7:35
Final Weigh Time:	2/5/2009 12:30

Initial Weigh Time:	2/5/2009 7:35
Final Weigh Time:	2/5/2009 12:30

February 25, 2009

Leena Lothe
Mundell & Associates, Inc.
110 South Downey Avenue
Indianapolis, IN 46219

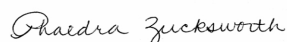
RE: Project: Michigan Plaza
Pace Project No.: 5023333

Dear Leena Lothe:

Enclosed are the analytical results for sample(s) received by the laboratory on February 13, 2009. The results relate only to the samples included in this report. 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,



Phaedra Zucksworth

phaedra.zucksworth@pacelabs.com
Project Manager

Illinois/NELAC Certification #: 100418
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Ohio VAP: CL0065
Pennsylvania: 68-00791
West Virginia Certification #: 330

Enclosures

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Michigan Plaza

Pace Project No.: 5023333

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5023333001	SB-11 (5-6)	Solid	02/13/09 10:00	02/13/09 16:58
5023333002	SB-11 (8-9)	Solid	02/13/09 10:10	02/13/09 16:58
5023333003	SB-11 (12-13))	Solid	02/13/09 10:20	02/13/09 16:58
5023333004	SB-13 (9-10)	Solid	02/13/09 11:55	02/13/09 16:58
5023333005	SB-13 (10-11)	Solid	02/13/09 12:05	02/13/09 16:58
5023333006	SB-13 (17-18)	Solid	02/13/09 12:15	02/13/09 16:58
5023333007	SB-12 (13-14)	Solid	02/13/09 13:10	02/13/09 16:58
5023333008	SB-12 (17-18)	Solid	02/13/09 13:15	02/13/09 16:58
5023333009	SB-12 (18-19)	Solid	02/13/09 13:20	02/13/09 16:58
5023333010	FD-1	Solid	02/13/09 08:00	02/13/09 16:58
5023333011	SB-14 (13-14)	Solid	02/13/09 14:40	02/13/09 16:58
5023333012	SB-14 (16-17)	Solid	02/13/09 14:55	02/13/09 16:58
5023333013	SB-14 (17-18)	Solid	02/13/09 15:00	02/13/09 16:58
5023333014	SB-11	Water	02/13/09 10:45	02/13/09 16:58
5023333015	SB-13	Water	02/13/09 12:30	02/13/09 16:58
5023333016	SB-12	Water	02/13/09 13:30	02/13/09 16:58
5023333017	SB-14	Water	02/13/09 15:10	02/13/09 16:58

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Michigan Plaza

Pace Project No.: 5023333

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5023333001	SB-11 (5-6)	ASTM D2974-87	RAK	1
		EPA 8260	ALA	73
5023333002	SB-11 (8-9)	ASTM D2974-87	RAK	1
		EPA 8260	ALA	73
5023333003	SB-11 (12-13))	ASTM D2974-87	RAK	1
		EPA 8260	ALA	73
5023333004	SB-13 (9-10)	ASTM D2974-87	RAK	1
		EPA 8260	ALA	73
5023333005	SB-13 (10-11)	ASTM D2974-87	RAK	1
		EPA 8260	ALA	73
5023333006	SB-13 (17-18)	ASTM D2974-87	RAK	1
		EPA 8260	ALA	73
5023333007	SB-12 (13-14)	ASTM D2974-87	RAK	1
		EPA 8260	ALA	73
5023333008	SB-12 (17-18)	ASTM D2974-87	RAK	1
		EPA 8260	ALA	73
5023333009	SB-12 (18-19)	ASTM D2974-87	RAK	1
		EPA 8260	ALA	73
5023333010	FD-1	ASTM D2974-87	RAK	1
		EPA 8260	ALA	73
5023333011	SB-14 (13-14)	ASTM D2974-87	RAK	1
		EPA 8260	ALA	73
5023333012	SB-14 (16-17)	ASTM D2974-87	RAK	1
		EPA 8260	ALA	73
5023333013	SB-14 (17-18)	ASTM D2974-87	RAK	1
		EPA 8260	ALA	73
5023333014	SB-11	EPA 8260	SLB	73
5023333015	SB-13	EPA 8260	SLB	73
5023333016	SB-12	EPA 8260	SLB	73
5023333017	SB-14	EPA 8260	SLB	73

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5023333

Sample: SB-11 (5-6) Lab ID: 5023333001 Collected: 02/13/09 10:00 Received: 02/13/09 16:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Acetone	ND ug/kg		104	1		02/14/09 01:31	67-64-1	
Acrolein	ND ug/kg		104	1		02/14/09 01:31	107-02-8	
Acrylonitrile	ND ug/kg		104	1		02/14/09 01:31	107-13-1	
Benzene	ND ug/kg		5.2	1		02/14/09 01:31	71-43-2	
Bromobenzene	ND ug/kg		5.2	1		02/14/09 01:31	108-86-1	
Bromochloromethane	ND ug/kg		5.2	1		02/14/09 01:31	74-97-5	
Bromodichloromethane	ND ug/kg		5.2	1		02/14/09 01:31	75-27-4	
Bromoform	ND ug/kg		5.2	1		02/14/09 01:31	75-25-2	
Bromomethane	ND ug/kg		5.2	1		02/14/09 01:31	74-83-9	
2-Butanone (MEK)	ND ug/kg		26.1	1		02/14/09 01:31	78-93-3	
n-Butylbenzene	ND ug/kg		5.2	1		02/14/09 01:31	104-51-8	
sec-Butylbenzene	ND ug/kg		5.2	1		02/14/09 01:31	135-98-8	
tert-Butylbenzene	ND ug/kg		5.2	1		02/14/09 01:31	98-06-6	
Carbon disulfide	ND ug/kg		10.4	1		02/14/09 01:31	75-15-0	
Carbon tetrachloride	ND ug/kg		5.2	1		02/14/09 01:31	56-23-5	
Chlorobenzene	ND ug/kg		5.2	1		02/14/09 01:31	108-90-7	
Chloroethane	ND ug/kg		5.2	1		02/14/09 01:31	75-00-3	
Chloroform	ND ug/kg		5.2	1		02/14/09 01:31	67-66-3	
Chloromethane	ND ug/kg		5.2	1		02/14/09 01:31	74-87-3	
2-Chlorotoluene	ND ug/kg		5.2	1		02/14/09 01:31	95-49-8	
4-Chlorotoluene	ND ug/kg		5.2	1		02/14/09 01:31	106-43-4	
Dibromochloromethane	ND ug/kg		5.2	1		02/14/09 01:31	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/kg		5.2	1		02/14/09 01:31	106-93-4	
Dibromomethane	ND ug/kg		5.2	1		02/14/09 01:31	74-95-3	
1,2-Dichlorobenzene	ND ug/kg		5.2	1		02/14/09 01:31	95-50-1	
1,3-Dichlorobenzene	ND ug/kg		5.2	1		02/14/09 01:31	541-73-1	
1,4-Dichlorobenzene	ND ug/kg		5.2	1		02/14/09 01:31	106-46-7	
trans-1,4-Dichloro-2-butene	ND ug/kg		104	1		02/14/09 01:31	110-57-6	
Dichlorodifluoromethane	ND ug/kg		5.2	1		02/14/09 01:31	75-71-8	
1,1-Dichloroethane	ND ug/kg		5.2	1		02/14/09 01:31	75-34-3	
1,2-Dichloroethane	ND ug/kg		5.2	1		02/14/09 01:31	107-06-2	
1,1-Dichloroethene	ND ug/kg		5.2	1		02/14/09 01:31	75-35-4	
cis-1,2-Dichloroethene	ND ug/kg		5.2	1		02/14/09 01:31	156-59-2	
trans-1,2-Dichloroethene	ND ug/kg		5.2	1		02/14/09 01:31	156-60-5	
1,2-Dichloropropane	ND ug/kg		5.2	1		02/14/09 01:31	78-87-5	
1,3-Dichloropropane	ND ug/kg		5.2	1		02/14/09 01:31	142-28-9	
2,2-Dichloropropane	ND ug/kg		5.2	1		02/14/09 01:31	594-20-7	
1,1-Dichloropropene	ND ug/kg		5.2	1		02/14/09 01:31	563-58-6	
cis-1,3-Dichloropropene	ND ug/kg		5.2	1		02/14/09 01:31	10061-01-5	
trans-1,3-Dichloropropene	ND ug/kg		5.2	1		02/14/09 01:31	10061-02-6	
Ethylbenzene	ND ug/kg		5.2	1		02/14/09 01:31	100-41-4	
Ethyl methacrylate	ND ug/kg		10.4	1		02/14/09 01:31	97-63-2	
Hexachloro-1,3-butadiene	ND ug/kg		5.2	1		02/14/09 01:31	87-68-3	
n-Hexane	ND ug/kg		5.2	1		02/14/09 01:31	110-54-3	
2-Hexanone	ND ug/kg		104	1		02/14/09 01:31	591-78-6	
Iodomethane	ND ug/kg		104	1		02/14/09 01:31	74-88-4	

Date: 02/25/2009 03:30 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5023333

Sample: SB-11 (5-6) Lab ID: 5023333001 Collected: 02/13/09 10:00 Received: 02/13/09 16:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND	ug/kg	5.2	1		02/14/09 01:31	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.2	1		02/14/09 01:31	99-87-6	
Methylene chloride	ND	ug/kg	20.9	1		02/14/09 01:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	26.1	1		02/14/09 01:31	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.2	1		02/14/09 01:31	1634-04-4	
Naphthalene	ND	ug/kg	5.2	1		02/14/09 01:31	91-20-3	
n-Propylbenzene	ND	ug/kg	5.2	1		02/14/09 01:31	103-65-1	
Styrene	ND	ug/kg	5.2	1		02/14/09 01:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.2	1		02/14/09 01:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.2	1		02/14/09 01:31	79-34-5	
Tetrachloroethene	3890	ug/kg	261	50		02/16/09 14:04	127-18-4	
Toluene	ND	ug/kg	5.2	1		02/14/09 01:31	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.2	1		02/14/09 01:31	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.2	1		02/14/09 01:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.2	1		02/14/09 01:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.2	1		02/14/09 01:31	79-00-5	
Trichloroethene	25.3	ug/kg	5.2	1		02/14/09 01:31	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.2	1		02/14/09 01:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.2	1		02/14/09 01:31	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.2	1		02/14/09 01:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.2	1		02/14/09 01:31	108-67-8	
Vinyl acetate	ND	ug/kg	104	1		02/14/09 01:31	108-05-4	
Vinyl chloride	ND	ug/kg	5.2	1		02/14/09 01:31	75-01-4	
Xylene (Total)	ND	ug/kg	10.4	1		02/14/09 01:31	1330-20-7	
Dibromofluoromethane (S)	99 %		80-124	1		02/14/09 01:31	1868-53-7	
Toluene-d8 (S)	101 %		58-145	1		02/14/09 01:31	2037-26-5	
4-Bromofluorobenzene (S)	95 %		61-131	1		02/14/09 01:31	460-00-4	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	4.2 %	0.10	1	02/13/09 18:16

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5023333

Sample: SB-11 (8-9) Lab ID: 5023333002 Collected: 02/13/09 10:10 Received: 02/13/09 16:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Acetone	ND ug/kg		104	1		02/14/09 02:08	67-64-1	
Acrolein	ND ug/kg		104	1		02/14/09 02:08	107-02-8	
Acrylonitrile	ND ug/kg		104	1		02/14/09 02:08	107-13-1	
Benzene	ND ug/kg		5.2	1		02/14/09 02:08	71-43-2	
Bromobenzene	ND ug/kg		5.2	1		02/14/09 02:08	108-86-1	
Bromochloromethane	ND ug/kg		5.2	1		02/14/09 02:08	74-97-5	
Bromodichloromethane	ND ug/kg		5.2	1		02/14/09 02:08	75-27-4	
Bromoform	ND ug/kg		5.2	1		02/14/09 02:08	75-25-2	
Bromomethane	ND ug/kg		5.2	1		02/14/09 02:08	74-83-9	
2-Butanone (MEK)	ND ug/kg		26.0	1		02/14/09 02:08	78-93-3	
n-Butylbenzene	ND ug/kg		5.2	1		02/14/09 02:08	104-51-8	
sec-Butylbenzene	ND ug/kg		5.2	1		02/14/09 02:08	135-98-8	
tert-Butylbenzene	ND ug/kg		5.2	1		02/14/09 02:08	98-06-6	
Carbon disulfide	ND ug/kg		10.4	1		02/14/09 02:08	75-15-0	
Carbon tetrachloride	ND ug/kg		5.2	1		02/14/09 02:08	56-23-5	
Chlorobenzene	ND ug/kg		5.2	1		02/14/09 02:08	108-90-7	
Chloroethane	ND ug/kg		5.2	1		02/14/09 02:08	75-00-3	
Chloroform	ND ug/kg		5.2	1		02/14/09 02:08	67-66-3	
Chloromethane	ND ug/kg		5.2	1		02/14/09 02:08	74-87-3	
2-Chlorotoluene	ND ug/kg		5.2	1		02/14/09 02:08	95-49-8	
4-Chlorotoluene	ND ug/kg		5.2	1		02/14/09 02:08	106-43-4	
Dibromochloromethane	ND ug/kg		5.2	1		02/14/09 02:08	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/kg		5.2	1		02/14/09 02:08	106-93-4	
Dibromomethane	ND ug/kg		5.2	1		02/14/09 02:08	74-95-3	
1,2-Dichlorobenzene	ND ug/kg		5.2	1		02/14/09 02:08	95-50-1	
1,3-Dichlorobenzene	ND ug/kg		5.2	1		02/14/09 02:08	541-73-1	
1,4-Dichlorobenzene	ND ug/kg		5.2	1		02/14/09 02:08	106-46-7	
trans-1,4-Dichloro-2-butene	ND ug/kg		104	1		02/14/09 02:08	110-57-6	
Dichlorodifluoromethane	ND ug/kg		5.2	1		02/14/09 02:08	75-71-8	
1,1-Dichloroethane	ND ug/kg		5.2	1		02/14/09 02:08	75-34-3	
1,2-Dichloroethane	ND ug/kg		5.2	1		02/14/09 02:08	107-06-2	
1,1-Dichloroethene	ND ug/kg		5.2	1		02/14/09 02:08	75-35-4	
cis-1,2-Dichloroethene	ND ug/kg		5.2	1		02/14/09 02:08	156-59-2	
trans-1,2-Dichloroethene	ND ug/kg		5.2	1		02/14/09 02:08	156-60-5	
1,2-Dichloropropane	ND ug/kg		5.2	1		02/14/09 02:08	78-87-5	
1,3-Dichloropropane	ND ug/kg		5.2	1		02/14/09 02:08	142-28-9	
2,2-Dichloropropane	ND ug/kg		5.2	1		02/14/09 02:08	594-20-7	
1,1-Dichloropropene	ND ug/kg		5.2	1		02/14/09 02:08	563-58-6	
cis-1,3-Dichloropropene	ND ug/kg		5.2	1		02/14/09 02:08	10061-01-5	
trans-1,3-Dichloropropene	ND ug/kg		5.2	1		02/14/09 02:08	10061-02-6	
Ethylbenzene	ND ug/kg		5.2	1		02/14/09 02:08	100-41-4	
Ethyl methacrylate	ND ug/kg		10.4	1		02/14/09 02:08	97-63-2	
Hexachloro-1,3-butadiene	ND ug/kg		5.2	1		02/14/09 02:08	87-68-3	
n-Hexane	ND ug/kg		5.2	1		02/14/09 02:08	110-54-3	
2-Hexanone	ND ug/kg		104	1		02/14/09 02:08	591-78-6	
Iodomethane	ND ug/kg		104	1		02/14/09 02:08	74-88-4	

Date: 02/25/2009 03:30 PM

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ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5023333

Sample: SB-11 (8-9) Lab ID: 5023333002 Collected: 02/13/09 10:10 Received: 02/13/09 16:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND	ug/kg	5.2	1		02/14/09 02:08	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.2	1		02/14/09 02:08	99-87-6	
Methylene chloride	ND	ug/kg	20.8	1		02/14/09 02:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	26.0	1		02/14/09 02:08	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.2	1		02/14/09 02:08	1634-04-4	
Naphthalene	ND	ug/kg	5.2	1		02/14/09 02:08	91-20-3	
n-Propylbenzene	ND	ug/kg	5.2	1		02/14/09 02:08	103-65-1	
Styrene	ND	ug/kg	5.2	1		02/14/09 02:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.2	1		02/14/09 02:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.2	1		02/14/09 02:08	79-34-5	
Tetrachloroethene	4320	ug/kg	260	50		02/16/09 14:41	127-18-4	
Toluene	ND	ug/kg	5.2	1		02/14/09 02:08	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.2	1		02/14/09 02:08	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.2	1		02/14/09 02:08	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.2	1		02/14/09 02:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.2	1		02/14/09 02:08	79-00-5	
Trichloroethene	34.0	ug/kg	5.2	1		02/14/09 02:08	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.2	1		02/14/09 02:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.2	1		02/14/09 02:08	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.2	1		02/14/09 02:08	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.2	1		02/14/09 02:08	108-67-8	
Vinyl acetate	ND	ug/kg	104	1		02/14/09 02:08	108-05-4	
Vinyl chloride	ND	ug/kg	5.2	1		02/14/09 02:08	75-01-4	
Xylene (Total)	ND	ug/kg	10.4	1		02/14/09 02:08	1330-20-7	
Dibromofluoromethane (S)	93 %		80-124	1		02/14/09 02:08	1868-53-7	
Toluene-d8 (S)	102 %		58-145	1		02/14/09 02:08	2037-26-5	
4-Bromofluorobenzene (S)	93 %		61-131	1		02/14/09 02:08	460-00-4	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	3.9 %	0.10	1	02/13/09 18:16

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5023333

Sample: SB-11 (12-13) Lab ID: 5023333003 Collected: 02/13/09 10:20 Received: 02/13/09 16:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	106	1		02/14/09 02:44	67-64-1	
Acrolein	ND	ug/kg	106	1		02/14/09 02:44	107-02-8	
Acrylonitrile	ND	ug/kg	106	1		02/14/09 02:44	107-13-1	
Benzene	ND	ug/kg	5.3	1		02/14/09 02:44	71-43-2	
Bromobenzene	ND	ug/kg	5.3	1		02/14/09 02:44	108-86-1	
Bromochloromethane	ND	ug/kg	5.3	1		02/14/09 02:44	74-97-5	
Bromodichloromethane	ND	ug/kg	5.3	1		02/14/09 02:44	75-27-4	
Bromoform	ND	ug/kg	5.3	1		02/14/09 02:44	75-25-2	
Bromomethane	ND	ug/kg	5.3	1		02/14/09 02:44	74-83-9	
2-Butanone (MEK)	ND	ug/kg	26.6	1		02/14/09 02:44	78-93-3	
n-Butylbenzene	ND	ug/kg	5.3	1		02/14/09 02:44	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.3	1		02/14/09 02:44	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.3	1		02/14/09 02:44	98-06-6	
Carbon disulfide	ND	ug/kg	10.6	1		02/14/09 02:44	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.3	1		02/14/09 02:44	56-23-5	
Chlorobenzene	ND	ug/kg	5.3	1		02/14/09 02:44	108-90-7	
Chloroethane	ND	ug/kg	5.3	1		02/14/09 02:44	75-00-3	
Chloroform	ND	ug/kg	5.3	1		02/14/09 02:44	67-66-3	
Chloromethane	ND	ug/kg	5.3	1		02/14/09 02:44	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.3	1		02/14/09 02:44	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.3	1		02/14/09 02:44	106-43-4	
Dibromochloromethane	ND	ug/kg	5.3	1		02/14/09 02:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.3	1		02/14/09 02:44	106-93-4	
Dibromomethane	ND	ug/kg	5.3	1		02/14/09 02:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.3	1		02/14/09 02:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.3	1		02/14/09 02:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.3	1		02/14/09 02:44	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	106	1		02/14/09 02:44	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.3	1		02/14/09 02:44	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.3	1		02/14/09 02:44	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.3	1		02/14/09 02:44	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.3	1		02/14/09 02:44	75-35-4	
cis-1,2-Dichloroethene	6.7	ug/kg	5.3	1		02/14/09 02:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.3	1		02/14/09 02:44	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.3	1		02/14/09 02:44	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.3	1		02/14/09 02:44	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.3	1		02/14/09 02:44	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.3	1		02/14/09 02:44	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.3	1		02/14/09 02:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.3	1		02/14/09 02:44	10061-02-6	
Ethylbenzene	ND	ug/kg	5.3	1		02/14/09 02:44	100-41-4	
Ethyl methacrylate	ND	ug/kg	10.6	1		02/14/09 02:44	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.3	1		02/14/09 02:44	87-68-3	
n-Hexane	ND	ug/kg	5.3	1		02/14/09 02:44	110-54-3	
2-Hexanone	ND	ug/kg	106	1		02/14/09 02:44	591-78-6	
Iodomethane	ND	ug/kg	106	1		02/14/09 02:44	74-88-4	

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ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5023333

Sample: SB-11 (12-13) Lab ID: 5023333003 Collected: 02/13/09 10:20 Received: 02/13/09 16:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND	ug/kg	5.3	1		02/14/09 02:44	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.3	1		02/14/09 02:44	99-87-6	
Methylene chloride	ND	ug/kg	21.3	1		02/14/09 02:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	26.6	1		02/14/09 02:44	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.3	1		02/14/09 02:44	1634-04-4	
Naphthalene	ND	ug/kg	5.3	1		02/14/09 02:44	91-20-3	
n-Propylbenzene	ND	ug/kg	5.3	1		02/14/09 02:44	103-65-1	
Styrene	ND	ug/kg	5.3	1		02/14/09 02:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.3	1		02/14/09 02:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.3	1		02/14/09 02:44	79-34-5	
Tetrachloroethene	7690	ug/kg	266	50		02/16/09 15:22	127-18-4	
Toluene	ND	ug/kg	5.3	1		02/14/09 02:44	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.3	1		02/14/09 02:44	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.3	1		02/14/09 02:44	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.3	1		02/14/09 02:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.3	1		02/14/09 02:44	79-00-5	
Trichloroethene	36.4	ug/kg	5.3	1		02/14/09 02:44	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.3	1		02/14/09 02:44	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.3	1		02/14/09 02:44	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.3	1		02/14/09 02:44	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.3	1		02/14/09 02:44	108-67-8	
Vinyl acetate	ND	ug/kg	106	1		02/14/09 02:44	108-05-4	
Vinyl chloride	ND	ug/kg	5.3	1		02/14/09 02:44	75-01-4	
Xylene (Total)	ND	ug/kg	10.6	1		02/14/09 02:44	1330-20-7	
Dibromofluoromethane (S)	97 %		80-124	1		02/14/09 02:44	1868-53-7	
Toluene-d8 (S)	105 %		58-145	1		02/14/09 02:44	2037-26-5	
4-Bromofluorobenzene (S)	90 %		61-131	1		02/14/09 02:44	460-00-4	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	6.0 %	0.10	1	02/13/09 18:16

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5023333

Sample: SB-13 (9-10) Lab ID: 5023333004 Collected: 02/13/09 11:55 Received: 02/13/09 16:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	110	1		02/14/09 03:21	67-64-1	
Acrolein	ND	ug/kg	110	1		02/14/09 03:21	107-02-8	
Acrylonitrile	ND	ug/kg	110	1		02/14/09 03:21	107-13-1	
Benzene	ND	ug/kg	5.5	1		02/14/09 03:21	71-43-2	
Bromobenzene	ND	ug/kg	5.5	1		02/14/09 03:21	108-86-1	
Bromochloromethane	ND	ug/kg	5.5	1		02/14/09 03:21	74-97-5	
Bromodichloromethane	ND	ug/kg	5.5	1		02/14/09 03:21	75-27-4	
Bromoform	ND	ug/kg	5.5	1		02/14/09 03:21	75-25-2	
Bromomethane	ND	ug/kg	5.5	1		02/14/09 03:21	74-83-9	
2-Butanone (MEK)	ND	ug/kg	27.6	1		02/14/09 03:21	78-93-3	
n-Butylbenzene	ND	ug/kg	5.5	1		02/14/09 03:21	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.5	1		02/14/09 03:21	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.5	1		02/14/09 03:21	98-06-6	
Carbon disulfide	ND	ug/kg	11.0	1		02/14/09 03:21	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.5	1		02/14/09 03:21	56-23-5	
Chlorobenzene	ND	ug/kg	5.5	1		02/14/09 03:21	108-90-7	
Chloroethane	ND	ug/kg	5.5	1		02/14/09 03:21	75-00-3	
Chloroform	ND	ug/kg	5.5	1		02/14/09 03:21	67-66-3	
Chloromethane	ND	ug/kg	5.5	1		02/14/09 03:21	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.5	1		02/14/09 03:21	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.5	1		02/14/09 03:21	106-43-4	
Dibromochloromethane	ND	ug/kg	5.5	1		02/14/09 03:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.5	1		02/14/09 03:21	106-93-4	
Dibromomethane	ND	ug/kg	5.5	1		02/14/09 03:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.5	1		02/14/09 03:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.5	1		02/14/09 03:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.5	1		02/14/09 03:21	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	110	1		02/14/09 03:21	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.5	1		02/14/09 03:21	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.5	1		02/14/09 03:21	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.5	1		02/14/09 03:21	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.5	1		02/14/09 03:21	75-35-4	
cis-1,2-Dichloroethene	32.5	ug/kg	5.5	1		02/14/09 03:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.5	1		02/14/09 03:21	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.5	1		02/14/09 03:21	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.5	1		02/14/09 03:21	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.5	1		02/14/09 03:21	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.5	1		02/14/09 03:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.5	1		02/14/09 03:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.5	1		02/14/09 03:21	10061-02-6	
Ethylbenzene	ND	ug/kg	5.5	1		02/14/09 03:21	100-41-4	
Ethyl methacrylate	ND	ug/kg	11.0	1		02/14/09 03:21	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.5	1		02/14/09 03:21	87-68-3	
n-Hexane	ND	ug/kg	5.5	1		02/14/09 03:21	110-54-3	
2-Hexanone	ND	ug/kg	110	1		02/14/09 03:21	591-78-6	
Iodomethane	ND	ug/kg	110	1		02/14/09 03:21	74-88-4	

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ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5023333

Sample: SB-13 (9-10) Lab ID: 5023333004 Collected: 02/13/09 11:55 Received: 02/13/09 16:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND	ug/kg	5.5	1		02/14/09 03:21	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.5	1		02/14/09 03:21	99-87-6	
Methylene chloride	ND	ug/kg	22.1	1		02/14/09 03:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	27.6	1		02/14/09 03:21	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.5	1		02/14/09 03:21	1634-04-4	
Naphthalene	ND	ug/kg	5.5	1		02/14/09 03:21	91-20-3	
n-Propylbenzene	ND	ug/kg	5.5	1		02/14/09 03:21	103-65-1	
Styrene	ND	ug/kg	5.5	1		02/14/09 03:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.5	1		02/14/09 03:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.5	1		02/14/09 03:21	79-34-5	
Tetrachloroethene	1410	ug/kg	138	25		02/16/09 16:21	127-18-4	
Toluene	ND	ug/kg	5.5	1		02/14/09 03:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.5	1		02/14/09 03:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.5	1		02/14/09 03:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.5	1		02/14/09 03:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.5	1		02/14/09 03:21	79-00-5	
Trichloroethene	45.2	ug/kg	5.5	1		02/14/09 03:21	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.5	1		02/14/09 03:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.5	1		02/14/09 03:21	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.5	1		02/14/09 03:21	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.5	1		02/14/09 03:21	108-67-8	
Vinyl acetate	ND	ug/kg	110	1		02/14/09 03:21	108-05-4	
Vinyl chloride	ND	ug/kg	5.5	1		02/14/09 03:21	75-01-4	
Xylene (Total)	ND	ug/kg	11.0	1		02/14/09 03:21	1330-20-7	
Dibromofluoromethane (S)	101	%	80-124	1		02/14/09 03:21	1868-53-7	
Toluene-d8 (S)	103	%	58-145	1		02/14/09 03:21	2037-26-5	
4-Bromofluorobenzene (S)	94	%	61-131	1		02/14/09 03:21	460-00-4	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	9.5	%	0.10	1		02/13/09 18:16		

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5023333

Sample: SB-13 (10-11) Lab ID: 5023333005 Collected: 02/13/09 12:05 Received: 02/13/09 16:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	108	1		02/14/09 03:57	67-64-1	
Acrolein	ND	ug/kg	108	1		02/14/09 03:57	107-02-8	
Acrylonitrile	ND	ug/kg	108	1		02/14/09 03:57	107-13-1	
Benzene	ND	ug/kg	5.4	1		02/14/09 03:57	71-43-2	
Bromobenzene	ND	ug/kg	5.4	1		02/14/09 03:57	108-86-1	
Bromochloromethane	ND	ug/kg	5.4	1		02/14/09 03:57	74-97-5	
Bromodichloromethane	ND	ug/kg	5.4	1		02/14/09 03:57	75-27-4	
Bromoform	ND	ug/kg	5.4	1		02/14/09 03:57	75-25-2	
Bromomethane	ND	ug/kg	5.4	1		02/14/09 03:57	74-83-9	
2-Butanone (MEK)	ND	ug/kg	27.1	1		02/14/09 03:57	78-93-3	
n-Butylbenzene	ND	ug/kg	5.4	1		02/14/09 03:57	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.4	1		02/14/09 03:57	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.4	1		02/14/09 03:57	98-06-6	
Carbon disulfide	ND	ug/kg	10.8	1		02/14/09 03:57	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.4	1		02/14/09 03:57	56-23-5	
Chlorobenzene	ND	ug/kg	5.4	1		02/14/09 03:57	108-90-7	
Chloroethane	ND	ug/kg	5.4	1		02/14/09 03:57	75-00-3	
Chloroform	ND	ug/kg	5.4	1		02/14/09 03:57	67-66-3	
Chloromethane	ND	ug/kg	5.4	1		02/14/09 03:57	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.4	1		02/14/09 03:57	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.4	1		02/14/09 03:57	106-43-4	
Dibromochloromethane	ND	ug/kg	5.4	1		02/14/09 03:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.4	1		02/14/09 03:57	106-93-4	
Dibromomethane	ND	ug/kg	5.4	1		02/14/09 03:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.4	1		02/14/09 03:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.4	1		02/14/09 03:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.4	1		02/14/09 03:57	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	108	1		02/14/09 03:57	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.4	1		02/14/09 03:57	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.4	1		02/14/09 03:57	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.4	1		02/14/09 03:57	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.4	1		02/14/09 03:57	75-35-4	
cis-1,2-Dichloroethene	45.8	ug/kg	5.4	1		02/14/09 03:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.4	1		02/14/09 03:57	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.4	1		02/14/09 03:57	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.4	1		02/14/09 03:57	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.4	1		02/14/09 03:57	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.4	1		02/14/09 03:57	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.4	1		02/14/09 03:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.4	1		02/14/09 03:57	10061-02-6	
Ethylbenzene	ND	ug/kg	5.4	1		02/14/09 03:57	100-41-4	
Ethyl methacrylate	ND	ug/kg	10.8	1		02/14/09 03:57	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.4	1		02/14/09 03:57	87-68-3	
n-Hexane	ND	ug/kg	5.4	1		02/14/09 03:57	110-54-3	
2-Hexanone	ND	ug/kg	108	1		02/14/09 03:57	591-78-6	
Iodomethane	ND	ug/kg	108	1		02/14/09 03:57	74-88-4	

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ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5023333

Sample: SB-13 (10-11) Lab ID: 5023333005 Collected: 02/13/09 12:05 Received: 02/13/09 16:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND	ug/kg	5.4	1		02/14/09 03:57	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.4	1		02/14/09 03:57	99-87-6	
Methylene chloride	ND	ug/kg	21.7	1		02/14/09 03:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	27.1	1		02/14/09 03:57	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.4	1		02/14/09 03:57	1634-04-4	
Naphthalene	ND	ug/kg	5.4	1		02/14/09 03:57	91-20-3	
n-Propylbenzene	ND	ug/kg	5.4	1		02/14/09 03:57	103-65-1	
Styrene	ND	ug/kg	5.4	1		02/14/09 03:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.4	1		02/14/09 03:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.4	1		02/14/09 03:57	79-34-5	
Tetrachloroethene	1640	ug/kg	136	25		02/16/09 16:58	127-18-4	
Toluene	ND	ug/kg	5.4	1		02/14/09 03:57	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.4	1		02/14/09 03:57	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.4	1		02/14/09 03:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.4	1		02/14/09 03:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.4	1		02/14/09 03:57	79-00-5	
Trichloroethene	55.7	ug/kg	5.4	1		02/14/09 03:57	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.4	1		02/14/09 03:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.4	1		02/14/09 03:57	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.4	1		02/14/09 03:57	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.4	1		02/14/09 03:57	108-67-8	
Vinyl acetate	ND	ug/kg	108	1		02/14/09 03:57	108-05-4	
Vinyl chloride	ND	ug/kg	5.4	1		02/14/09 03:57	75-01-4	
Xylene (Total)	ND	ug/kg	10.8	1		02/14/09 03:57	1330-20-7	
Dibromofluoromethane (S)	99 %		80-124	1		02/14/09 03:57	1868-53-7	
Toluene-d8 (S)	103 %		58-145	1		02/14/09 03:57	2037-26-5	
4-Bromofluorobenzene (S)	93 %		61-131	1		02/14/09 03:57	460-00-4	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	7.8 %	0.10	1	02/13/09 18:17

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5023333

Sample: SB-13 (17-18) Lab ID: 5023333006 Collected: 02/13/09 12:15 Received: 02/13/09 16:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	111	1		02/14/09 04:33	67-64-1	
Acrolein	ND	ug/kg	111	1		02/14/09 04:33	107-02-8	
Acrylonitrile	ND	ug/kg	111	1		02/14/09 04:33	107-13-1	
Benzene	ND	ug/kg	5.5	1		02/14/09 04:33	71-43-2	
Bromobenzene	ND	ug/kg	5.5	1		02/14/09 04:33	108-86-1	
Bromochloromethane	ND	ug/kg	5.5	1		02/14/09 04:33	74-97-5	
Bromodichloromethane	ND	ug/kg	5.5	1		02/14/09 04:33	75-27-4	
Bromoform	ND	ug/kg	5.5	1		02/14/09 04:33	75-25-2	
Bromomethane	ND	ug/kg	5.5	1		02/14/09 04:33	74-83-9	
2-Butanone (MEK)	ND	ug/kg	27.7	1		02/14/09 04:33	78-93-3	
n-Butylbenzene	ND	ug/kg	5.5	1		02/14/09 04:33	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.5	1		02/14/09 04:33	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.5	1		02/14/09 04:33	98-06-6	
Carbon disulfide	ND	ug/kg	11.1	1		02/14/09 04:33	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.5	1		02/14/09 04:33	56-23-5	
Chlorobenzene	ND	ug/kg	5.5	1		02/14/09 04:33	108-90-7	
Chloroethane	ND	ug/kg	5.5	1		02/14/09 04:33	75-00-3	
Chloroform	ND	ug/kg	5.5	1		02/14/09 04:33	67-66-3	
Chloromethane	ND	ug/kg	5.5	1		02/14/09 04:33	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.5	1		02/14/09 04:33	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.5	1		02/14/09 04:33	106-43-4	
Dibromochloromethane	ND	ug/kg	5.5	1		02/14/09 04:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.5	1		02/14/09 04:33	106-93-4	
Dibromomethane	ND	ug/kg	5.5	1		02/14/09 04:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.5	1		02/14/09 04:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.5	1		02/14/09 04:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.5	1		02/14/09 04:33	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	111	1		02/14/09 04:33	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.5	1		02/14/09 04:33	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.5	1		02/14/09 04:33	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.5	1		02/14/09 04:33	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.5	1		02/14/09 04:33	75-35-4	
cis-1,2-Dichloroethene	831	ug/kg	139	25		02/16/09 14:22	156-59-2	
trans-1,2-Dichloroethene	8.1	ug/kg	5.5	1		02/14/09 04:33	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.5	1		02/14/09 04:33	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.5	1		02/14/09 04:33	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.5	1		02/14/09 04:33	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.5	1		02/14/09 04:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.5	1		02/14/09 04:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.5	1		02/14/09 04:33	10061-02-6	
Ethylbenzene	ND	ug/kg	5.5	1		02/14/09 04:33	100-41-4	
Ethyl methacrylate	ND	ug/kg	11.1	1		02/14/09 04:33	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.5	1		02/14/09 04:33	87-68-3	
n-Hexane	ND	ug/kg	5.5	1		02/14/09 04:33	110-54-3	
2-Hexanone	ND	ug/kg	111	1		02/14/09 04:33	591-78-6	
Iodomethane	ND	ug/kg	111	1		02/14/09 04:33	74-88-4	

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ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5023333

Sample: SB-13 (17-18) Lab ID: 5023333006 Collected: 02/13/09 12:15 Received: 02/13/09 16:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND	ug/kg	5.5	1		02/14/09 04:33	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.5	1		02/14/09 04:33	99-87-6	
Methylene chloride	ND	ug/kg	22.2	1		02/14/09 04:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	27.7	1		02/14/09 04:33	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.5	1		02/14/09 04:33	1634-04-4	
Naphthalene	ND	ug/kg	5.5	1		02/14/09 04:33	91-20-3	
n-Propylbenzene	ND	ug/kg	5.5	1		02/14/09 04:33	103-65-1	
Styrene	ND	ug/kg	5.5	1		02/14/09 04:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.5	1		02/14/09 04:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.5	1		02/14/09 04:33	79-34-5	
Tetrachloroethene	55000	ug/kg	2770	500		02/16/09 18:25	127-18-4	
Toluene	ND	ug/kg	5.5	1		02/14/09 04:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.5	1		02/14/09 04:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.5	1		02/14/09 04:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.5	1		02/14/09 04:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.5	1		02/14/09 04:33	79-00-5	
Trichloroethene	105	ug/kg	5.5	1		02/14/09 04:33	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.5	1		02/14/09 04:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.5	1		02/14/09 04:33	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.5	1		02/14/09 04:33	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.5	1		02/14/09 04:33	108-67-8	
Vinyl acetate	ND	ug/kg	111	1		02/14/09 04:33	108-05-4	
Vinyl chloride	246	ug/kg	5.5	1		02/14/09 04:33	75-01-4	
Xylene (Total)	ND	ug/kg	11.1	1		02/14/09 04:33	1330-20-7	
Dibromofluoromethane (S)	93 %		80-124	1		02/14/09 04:33	1868-53-7	
Toluene-d8 (S)	110 %		58-145	1		02/14/09 04:33	2037-26-5	
4-Bromofluorobenzene (S)	86 %		61-131	1		02/14/09 04:33	460-00-4	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	9.8 %	0.10	1	02/13/09 18:17

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5023333

Sample: SB-12 (13-14) Lab ID: 5023333007 Collected: 02/13/09 13:10 Received: 02/13/09 16:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	104	1		02/14/09 05:10	67-64-1	
Acrolein	ND	ug/kg	104	1		02/14/09 05:10	107-02-8	
Acrylonitrile	ND	ug/kg	104	1		02/14/09 05:10	107-13-1	
Benzene	ND	ug/kg	5.2	1		02/14/09 05:10	71-43-2	
Bromobenzene	ND	ug/kg	5.2	1		02/14/09 05:10	108-86-1	
Bromochloromethane	ND	ug/kg	5.2	1		02/14/09 05:10	74-97-5	
Bromodichloromethane	ND	ug/kg	5.2	1		02/14/09 05:10	75-27-4	
Bromoform	ND	ug/kg	5.2	1		02/14/09 05:10	75-25-2	
Bromomethane	ND	ug/kg	5.2	1		02/14/09 05:10	74-83-9	
2-Butanone (MEK)	ND	ug/kg	26.1	1		02/14/09 05:10	78-93-3	
n-Butylbenzene	ND	ug/kg	5.2	1		02/14/09 05:10	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.2	1		02/14/09 05:10	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.2	1		02/14/09 05:10	98-06-6	
Carbon disulfide	ND	ug/kg	10.4	1		02/14/09 05:10	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.2	1		02/14/09 05:10	56-23-5	
Chlorobenzene	ND	ug/kg	5.2	1		02/14/09 05:10	108-90-7	
Chloroethane	ND	ug/kg	5.2	1		02/14/09 05:10	75-00-3	
Chloroform	ND	ug/kg	5.2	1		02/14/09 05:10	67-66-3	
Chloromethane	ND	ug/kg	5.2	1		02/14/09 05:10	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.2	1		02/14/09 05:10	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.2	1		02/14/09 05:10	106-43-4	
Dibromochloromethane	ND	ug/kg	5.2	1		02/14/09 05:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.2	1		02/14/09 05:10	106-93-4	
Dibromomethane	ND	ug/kg	5.2	1		02/14/09 05:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.2	1		02/14/09 05:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.2	1		02/14/09 05:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.2	1		02/14/09 05:10	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	104	1		02/14/09 05:10	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.2	1		02/14/09 05:10	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.2	1		02/14/09 05:10	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.2	1		02/14/09 05:10	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.2	1		02/14/09 05:10	75-35-4	
cis-1,2-Dichloroethene	12.3	ug/kg	5.2	1		02/14/09 05:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.2	1		02/14/09 05:10	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.2	1		02/14/09 05:10	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.2	1		02/14/09 05:10	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.2	1		02/14/09 05:10	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.2	1		02/14/09 05:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.2	1		02/14/09 05:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.2	1		02/14/09 05:10	10061-02-6	
Ethylbenzene	ND	ug/kg	5.2	1		02/14/09 05:10	100-41-4	
Ethyl methacrylate	ND	ug/kg	10.4	1		02/14/09 05:10	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.2	1		02/14/09 05:10	87-68-3	
n-Hexane	ND	ug/kg	5.2	1		02/14/09 05:10	110-54-3	
2-Hexanone	ND	ug/kg	104	1		02/14/09 05:10	591-78-6	
Iodomethane	ND	ug/kg	104	1		02/14/09 05:10	74-88-4	

Date: 02/25/2009 03:30 PM

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ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5023333

Sample: SB-12 (13-14) Lab ID: 5023333007 Collected: 02/13/09 13:10 Received: 02/13/09 16:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND	ug/kg	5.2	1		02/14/09 05:10	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.2	1		02/14/09 05:10	99-87-6	
Methylene chloride	ND	ug/kg	20.9	1		02/14/09 05:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	26.1	1		02/14/09 05:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.2	1		02/14/09 05:10	1634-04-4	
Naphthalene	ND	ug/kg	5.2	1		02/14/09 05:10	91-20-3	
n-Propylbenzene	ND	ug/kg	5.2	1		02/14/09 05:10	103-65-1	
Styrene	ND	ug/kg	5.2	1		02/14/09 05:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.2	1		02/14/09 05:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.2	1		02/14/09 05:10	79-34-5	
Tetrachloroethene	6290	ug/kg	261	50		02/16/09 17:43	127-18-4	
Toluene	ND	ug/kg	5.2	1		02/14/09 05:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.2	1		02/14/09 05:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.2	1		02/14/09 05:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.2	1		02/14/09 05:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.2	1		02/14/09 05:10	79-00-5	
Trichloroethene	35.9	ug/kg	5.2	1		02/14/09 05:10	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.2	1		02/14/09 05:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.2	1		02/14/09 05:10	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.2	1		02/14/09 05:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.2	1		02/14/09 05:10	108-67-8	
Vinyl acetate	ND	ug/kg	104	1		02/14/09 05:10	108-05-4	
Vinyl chloride	ND	ug/kg	5.2	1		02/14/09 05:10	75-01-4	
Xylene (Total)	ND	ug/kg	10.4	1		02/14/09 05:10	1330-20-7	
Dibromofluoromethane (S)	99 %		80-124	1		02/14/09 05:10	1868-53-7	
Toluene-d8 (S)	103 %		58-145	1		02/14/09 05:10	2037-26-5	
4-Bromofluorobenzene (S)	92 %		61-131	1		02/14/09 05:10	460-00-4	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	4.3 %	0.10	1	02/13/09 18:17

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5023333

Sample: SB-12 (17-18) Lab ID: 5023333008 Collected: 02/13/09 13:15 Received: 02/13/09 16:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	105	1		02/14/09 05:46	67-64-1	
Acrolein	ND	ug/kg	105	1		02/14/09 05:46	107-02-8	
Acrylonitrile	ND	ug/kg	105	1		02/14/09 05:46	107-13-1	
Benzene	ND	ug/kg	5.3	1		02/14/09 05:46	71-43-2	
Bromobenzene	ND	ug/kg	5.3	1		02/14/09 05:46	108-86-1	
Bromochloromethane	ND	ug/kg	5.3	1		02/14/09 05:46	74-97-5	
Bromodichloromethane	ND	ug/kg	5.3	1		02/14/09 05:46	75-27-4	
Bromoform	ND	ug/kg	5.3	1		02/14/09 05:46	75-25-2	
Bromomethane	ND	ug/kg	5.3	1		02/14/09 05:46	74-83-9	
2-Butanone (MEK)	ND	ug/kg	26.4	1		02/14/09 05:46	78-93-3	
n-Butylbenzene	ND	ug/kg	5.3	1		02/14/09 05:46	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.3	1		02/14/09 05:46	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.3	1		02/14/09 05:46	98-06-6	
Carbon disulfide	ND	ug/kg	10.5	1		02/14/09 05:46	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.3	1		02/14/09 05:46	56-23-5	
Chlorobenzene	ND	ug/kg	5.3	1		02/14/09 05:46	108-90-7	
Chloroethane	ND	ug/kg	5.3	1		02/14/09 05:46	75-00-3	
Chloroform	ND	ug/kg	5.3	1		02/14/09 05:46	67-66-3	
Chloromethane	ND	ug/kg	5.3	1		02/14/09 05:46	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.3	1		02/14/09 05:46	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.3	1		02/14/09 05:46	106-43-4	
Dibromochloromethane	ND	ug/kg	5.3	1		02/14/09 05:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.3	1		02/14/09 05:46	106-93-4	
Dibromomethane	ND	ug/kg	5.3	1		02/14/09 05:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.3	1		02/14/09 05:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.3	1		02/14/09 05:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.3	1		02/14/09 05:46	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	105	1		02/14/09 05:46	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.3	1		02/14/09 05:46	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.3	1		02/14/09 05:46	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.3	1		02/14/09 05:46	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.3	1		02/14/09 05:46	75-35-4	
cis-1,2-Dichloroethene	45.8	ug/kg	5.3	1		02/14/09 05:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.3	1		02/14/09 05:46	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.3	1		02/14/09 05:46	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.3	1		02/14/09 05:46	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.3	1		02/14/09 05:46	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.3	1		02/14/09 05:46	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.3	1		02/14/09 05:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.3	1		02/14/09 05:46	10061-02-6	
Ethylbenzene	ND	ug/kg	5.3	1		02/14/09 05:46	100-41-4	
Ethyl methacrylate	ND	ug/kg	10.5	1		02/14/09 05:46	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.3	1		02/14/09 05:46	87-68-3	
n-Hexane	ND	ug/kg	5.3	1		02/14/09 05:46	110-54-3	
2-Hexanone	ND	ug/kg	105	1		02/14/09 05:46	591-78-6	
Iodomethane	ND	ug/kg	105	1		02/14/09 05:46	74-88-4	

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ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5023333

Sample: SB-12 (17-18) Lab ID: 5023333008 Collected: 02/13/09 13:15 Received: 02/13/09 16:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND	ug/kg	5.3	1		02/14/09 05:46	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.3	1		02/14/09 05:46	99-87-6	
Methylene chloride	ND	ug/kg	21.1	1		02/14/09 05:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	26.4	1		02/14/09 05:46	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.3	1		02/14/09 05:46	1634-04-4	
Naphthalene	ND	ug/kg	5.3	1		02/14/09 05:46	91-20-3	
n-Propylbenzene	ND	ug/kg	5.3	1		02/14/09 05:46	103-65-1	
Styrene	ND	ug/kg	5.3	1		02/14/09 05:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.3	1		02/14/09 05:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.3	1		02/14/09 05:46	79-34-5	
Tetrachloroethene	19100	ug/kg	2640	500		02/16/09 18:02	127-18-4	
Toluene	ND	ug/kg	5.3	1		02/14/09 05:46	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.3	1		02/14/09 05:46	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.3	1		02/14/09 05:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.3	1		02/14/09 05:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.3	1		02/14/09 05:46	79-00-5	
Trichloroethene	84.9	ug/kg	5.3	1		02/14/09 05:46	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.3	1		02/14/09 05:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.3	1		02/14/09 05:46	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.3	1		02/14/09 05:46	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.3	1		02/14/09 05:46	108-67-8	
Vinyl acetate	ND	ug/kg	105	1		02/14/09 05:46	108-05-4	
Vinyl chloride	ND	ug/kg	5.3	1		02/14/09 05:46	75-01-4	
Xylene (Total)	ND	ug/kg	10.5	1		02/14/09 05:46	1330-20-7	
Dibromofluoromethane (S)	96 %		80-124	1		02/14/09 05:46	1868-53-7	
Toluene-d8 (S)	107 %		58-145	1		02/14/09 05:46	2037-26-5	
4-Bromofluorobenzene (S)	87 %		61-131	1		02/14/09 05:46	460-00-4	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	5.2 %	0.10	1	02/13/09 18:17

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5023333

Sample: SB-12 (18-19) Lab ID: 5023333009 Collected: 02/13/09 13:20 Received: 02/13/09 16:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	108	1		02/14/09 06:30	67-64-1	
Acrolein	ND	ug/kg	108	1		02/14/09 06:30	107-02-8	
Acrylonitrile	ND	ug/kg	108	1		02/14/09 06:30	107-13-1	
Benzene	ND	ug/kg	5.4	1		02/14/09 06:30	71-43-2	
Bromobenzene	ND	ug/kg	5.4	1		02/14/09 06:30	108-86-1	
Bromochloromethane	ND	ug/kg	5.4	1		02/14/09 06:30	74-97-5	
Bromodichloromethane	ND	ug/kg	5.4	1		02/14/09 06:30	75-27-4	
Bromoform	ND	ug/kg	5.4	1		02/14/09 06:30	75-25-2	
Bromomethane	ND	ug/kg	5.4	1		02/14/09 06:30	74-83-9	
2-Butanone (MEK)	ND	ug/kg	26.9	1		02/14/09 06:30	78-93-3	
n-Butylbenzene	ND	ug/kg	5.4	1		02/14/09 06:30	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.4	1		02/14/09 06:30	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.4	1		02/14/09 06:30	98-06-6	
Carbon disulfide	ND	ug/kg	10.8	1		02/14/09 06:30	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.4	1		02/14/09 06:30	56-23-5	
Chlorobenzene	ND	ug/kg	5.4	1		02/14/09 06:30	108-90-7	
Chloroethane	ND	ug/kg	5.4	1		02/14/09 06:30	75-00-3	
Chloroform	ND	ug/kg	5.4	1		02/14/09 06:30	67-66-3	
Chloromethane	ND	ug/kg	5.4	1		02/14/09 06:30	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.4	1		02/14/09 06:30	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.4	1		02/14/09 06:30	106-43-4	
Dibromochloromethane	ND	ug/kg	5.4	1		02/14/09 06:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.4	1		02/14/09 06:30	106-93-4	
Dibromomethane	ND	ug/kg	5.4	1		02/14/09 06:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.4	1		02/14/09 06:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.4	1		02/14/09 06:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.4	1		02/14/09 06:30	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	108	1		02/14/09 06:30	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.4	1		02/14/09 06:30	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.4	1		02/14/09 06:30	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.4	1		02/14/09 06:30	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.4	1		02/14/09 06:30	75-35-4	
cis-1,2-Dichloroethene	1660	ug/kg	134	25		02/16/09 14:59	156-59-2	
trans-1,2-Dichloroethene	15.4	ug/kg	5.4	1		02/14/09 06:30	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.4	1		02/14/09 06:30	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.4	1		02/14/09 06:30	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.4	1		02/14/09 06:30	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.4	1		02/14/09 06:30	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.4	1		02/14/09 06:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.4	1		02/14/09 06:30	10061-02-6	
Ethylbenzene	ND	ug/kg	5.4	1		02/14/09 06:30	100-41-4	
Ethyl methacrylate	ND	ug/kg	10.8	1		02/14/09 06:30	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.4	1		02/14/09 06:30	87-68-3	
n-Hexane	ND	ug/kg	5.4	1		02/14/09 06:30	110-54-3	
2-Hexanone	ND	ug/kg	108	1		02/14/09 06:30	591-78-6	
Iodomethane	ND	ug/kg	108	1		02/14/09 06:30	74-88-4	

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ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5023333

Sample: SB-12 (18-19) Lab ID: 5023333009 Collected: 02/13/09 13:20 Received: 02/13/09 16:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND	ug/kg	5.4	1		02/14/09 06:30	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.4	1		02/14/09 06:30	99-87-6	
Methylene chloride	ND	ug/kg	21.5	1		02/14/09 06:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	26.9	1		02/14/09 06:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.4	1		02/14/09 06:30	1634-04-4	
Naphthalene	ND	ug/kg	5.4	1		02/14/09 06:30	91-20-3	
n-Propylbenzene	ND	ug/kg	5.4	1		02/14/09 06:30	103-65-1	
Styrene	ND	ug/kg	5.4	1		02/14/09 06:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.4	1		02/14/09 06:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.4	1		02/14/09 06:30	79-34-5	
Tetrachloroethene	53400	ug/kg	2690	500		02/16/09 18:47	127-18-4	
Toluene	ND	ug/kg	5.4	1		02/14/09 06:30	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.4	1		02/14/09 06:30	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.4	1		02/14/09 06:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.4	1		02/14/09 06:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.4	1		02/14/09 06:30	79-00-5	
Trichloroethene	154	ug/kg	5.4	1		02/14/09 06:30	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.4	1		02/14/09 06:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.4	1		02/14/09 06:30	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.4	1		02/14/09 06:30	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.4	1		02/14/09 06:30	108-67-8	
Vinyl acetate	ND	ug/kg	108	1		02/14/09 06:30	108-05-4	
Vinyl chloride	37.8	ug/kg	5.4	1		02/14/09 06:30	75-01-4	
Xylene (Total)	ND	ug/kg	10.8	1		02/14/09 06:30	1330-20-7	
Dibromofluoromethane (S)	100 %		80-124	1		02/14/09 06:30	1868-53-7	
Toluene-d8 (S)	107 %		58-145	1		02/14/09 06:30	2037-26-5	
4-Bromofluorobenzene (S)	85 %		61-131	1		02/14/09 06:30	460-00-4	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	7.0 %	0.10	1	02/13/09 18:17

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5023333

Sample: FD-1 Lab ID: 5023333010 Collected: 02/13/09 08:00 Received: 02/13/09 16:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	111	1		02/14/09 07:07	67-64-1	
Acrolein	ND	ug/kg	111	1		02/14/09 07:07	107-02-8	
Acrylonitrile	ND	ug/kg	111	1		02/14/09 07:07	107-13-1	
Benzene	ND	ug/kg	5.5	1		02/14/09 07:07	71-43-2	
Bromobenzene	ND	ug/kg	5.5	1		02/14/09 07:07	108-86-1	
Bromochloromethane	ND	ug/kg	5.5	1		02/14/09 07:07	74-97-5	
Bromodichloromethane	ND	ug/kg	5.5	1		02/14/09 07:07	75-27-4	
Bromoform	ND	ug/kg	5.5	1		02/14/09 07:07	75-25-2	
Bromomethane	ND	ug/kg	5.5	1		02/14/09 07:07	74-83-9	
2-Butanone (MEK)	ND	ug/kg	27.7	1		02/14/09 07:07	78-93-3	
n-Butylbenzene	ND	ug/kg	5.5	1		02/14/09 07:07	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.5	1		02/14/09 07:07	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.5	1		02/14/09 07:07	98-06-6	
Carbon disulfide	ND	ug/kg	11.1	1		02/14/09 07:07	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.5	1		02/14/09 07:07	56-23-5	
Chlorobenzene	ND	ug/kg	5.5	1		02/14/09 07:07	108-90-7	
Chloroethane	ND	ug/kg	5.5	1		02/14/09 07:07	75-00-3	
Chloroform	ND	ug/kg	5.5	1		02/14/09 07:07	67-66-3	
Chloromethane	ND	ug/kg	5.5	1		02/14/09 07:07	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.5	1		02/14/09 07:07	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.5	1		02/14/09 07:07	106-43-4	
Dibromochloromethane	ND	ug/kg	5.5	1		02/14/09 07:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.5	1		02/14/09 07:07	106-93-4	
Dibromomethane	ND	ug/kg	5.5	1		02/14/09 07:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.5	1		02/14/09 07:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.5	1		02/14/09 07:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.5	1		02/14/09 07:07	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	111	1		02/14/09 07:07	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.5	1		02/14/09 07:07	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.5	1		02/14/09 07:07	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.5	1		02/14/09 07:07	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.5	1		02/14/09 07:07	75-35-4	
cis-1,2-Dichloroethene	524	ug/kg	139	25		02/16/09 15:41	156-59-2	
trans-1,2-Dichloroethene	6.8	ug/kg	5.5	1		02/14/09 07:07	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.5	1		02/14/09 07:07	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.5	1		02/14/09 07:07	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.5	1		02/14/09 07:07	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.5	1		02/14/09 07:07	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.5	1		02/14/09 07:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.5	1		02/14/09 07:07	10061-02-6	
Ethylbenzene	ND	ug/kg	5.5	1		02/14/09 07:07	100-41-4	
Ethyl methacrylate	ND	ug/kg	11.1	1		02/14/09 07:07	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.5	1		02/14/09 07:07	87-68-3	
n-Hexane	ND	ug/kg	5.5	1		02/14/09 07:07	110-54-3	
2-Hexanone	ND	ug/kg	111	1		02/14/09 07:07	591-78-6	
Iodomethane	ND	ug/kg	111	1		02/14/09 07:07	74-88-4	

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ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5023333

Sample: FD-1 Lab ID: 5023333010 Collected: 02/13/09 08:00 Received: 02/13/09 16:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND	ug/kg	5.5	1		02/14/09 07:07	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.5	1		02/14/09 07:07	99-87-6	
Methylene chloride	ND	ug/kg	22.2	1		02/14/09 07:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	27.7	1		02/14/09 07:07	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.5	1		02/14/09 07:07	1634-04-4	
Naphthalene	ND	ug/kg	5.5	1		02/14/09 07:07	91-20-3	
n-Propylbenzene	ND	ug/kg	5.5	1		02/14/09 07:07	103-65-1	
Styrene	ND	ug/kg	5.5	1		02/14/09 07:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.5	1		02/14/09 07:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.5	1		02/14/09 07:07	79-34-5	
Tetrachloroethene	74300	ug/kg	2770	500		02/16/09 19:05	127-18-4	
Toluene	ND	ug/kg	5.5	1		02/14/09 07:07	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.5	1		02/14/09 07:07	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.5	1		02/14/09 07:07	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.5	1		02/14/09 07:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.5	1		02/14/09 07:07	79-00-5	
Trichloroethene	97.9	ug/kg	5.5	1		02/14/09 07:07	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.5	1		02/14/09 07:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.5	1		02/14/09 07:07	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.5	1		02/14/09 07:07	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.5	1		02/14/09 07:07	108-67-8	
Vinyl acetate	ND	ug/kg	111	1		02/14/09 07:07	108-05-4	
Vinyl chloride	217	ug/kg	5.5	1		02/14/09 07:07	75-01-4	
Xylene (Total)	ND	ug/kg	11.1	1		02/14/09 07:07	1330-20-7	
Dibromofluoromethane (S)	94 %		80-124	1		02/14/09 07:07	1868-53-7	
Toluene-d8 (S)	107 %		58-145	1		02/14/09 07:07	2037-26-5	
4-Bromofluorobenzene (S)	91 %		61-131	1		02/14/09 07:07	460-00-4	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	9.8 %	0.10	1	02/13/09 18:17

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5023333

Sample: SB-14 (13-14) Lab ID: 5023333011 Collected: 02/13/09 14:40 Received: 02/13/09 16:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	108	1		02/14/09 07:43	67-64-1	
Acrolein	ND	ug/kg	108	1		02/14/09 07:43	107-02-8	
Acrylonitrile	ND	ug/kg	108	1		02/14/09 07:43	107-13-1	
Benzene	ND	ug/kg	5.4	1		02/14/09 07:43	71-43-2	
Bromobenzene	ND	ug/kg	5.4	1		02/14/09 07:43	108-86-1	
Bromochloromethane	ND	ug/kg	5.4	1		02/14/09 07:43	74-97-5	
Bromodichloromethane	ND	ug/kg	5.4	1		02/14/09 07:43	75-27-4	
Bromoform	ND	ug/kg	5.4	1		02/14/09 07:43	75-25-2	
Bromomethane	ND	ug/kg	5.4	1		02/14/09 07:43	74-83-9	
2-Butanone (MEK)	ND	ug/kg	27.0	1		02/14/09 07:43	78-93-3	
n-Butylbenzene	ND	ug/kg	5.4	1		02/14/09 07:43	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.4	1		02/14/09 07:43	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.4	1		02/14/09 07:43	98-06-6	
Carbon disulfide	ND	ug/kg	10.8	1		02/14/09 07:43	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.4	1		02/14/09 07:43	56-23-5	
Chlorobenzene	ND	ug/kg	5.4	1		02/14/09 07:43	108-90-7	
Chloroethane	ND	ug/kg	5.4	1		02/14/09 07:43	75-00-3	
Chloroform	ND	ug/kg	5.4	1		02/14/09 07:43	67-66-3	
Chloromethane	ND	ug/kg	5.4	1		02/14/09 07:43	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.4	1		02/14/09 07:43	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.4	1		02/14/09 07:43	106-43-4	
Dibromochloromethane	ND	ug/kg	5.4	1		02/14/09 07:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.4	1		02/14/09 07:43	106-93-4	
Dibromomethane	ND	ug/kg	5.4	1		02/14/09 07:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.4	1		02/14/09 07:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.4	1		02/14/09 07:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.4	1		02/14/09 07:43	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	108	1		02/14/09 07:43	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.4	1		02/14/09 07:43	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.4	1		02/14/09 07:43	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.4	1		02/14/09 07:43	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.4	1		02/14/09 07:43	75-35-4	
cis-1,2-Dichloroethene	8.6	ug/kg	5.4	1		02/14/09 07:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.4	1		02/14/09 07:43	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.4	1		02/14/09 07:43	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.4	1		02/14/09 07:43	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.4	1		02/14/09 07:43	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.4	1		02/14/09 07:43	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.4	1		02/14/09 07:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.4	1		02/14/09 07:43	10061-02-6	
Ethylbenzene	ND	ug/kg	5.4	1		02/14/09 07:43	100-41-4	
Ethyl methacrylate	ND	ug/kg	10.8	1		02/14/09 07:43	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.4	1		02/14/09 07:43	87-68-3	
n-Hexane	ND	ug/kg	5.4	1		02/14/09 07:43	110-54-3	
2-Hexanone	ND	ug/kg	108	1		02/14/09 07:43	591-78-6	
Iodomethane	ND	ug/kg	108	1		02/14/09 07:43	74-88-4	

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ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5023333

Sample: SB-14 (13-14) Lab ID: 5023333011 Collected: 02/13/09 14:40 Received: 02/13/09 16:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND	ug/kg	5.4	1		02/14/09 07:43	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.4	1		02/14/09 07:43	99-87-6	
Methylene chloride	ND	ug/kg	21.6	1		02/14/09 07:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	27.0	1		02/14/09 07:43	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.4	1		02/14/09 07:43	1634-04-4	
Naphthalene	ND	ug/kg	5.4	1		02/14/09 07:43	91-20-3	
n-Propylbenzene	ND	ug/kg	5.4	1		02/14/09 07:43	103-65-1	
Styrene	ND	ug/kg	5.4	1		02/14/09 07:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.4	1		02/14/09 07:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.4	1		02/14/09 07:43	79-34-5	
Tetrachloroethene	21000	ug/kg	2700	500		02/16/09 15:59	127-18-4	
Toluene	ND	ug/kg	5.4	1		02/14/09 07:43	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.4	1		02/14/09 07:43	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.4	1		02/14/09 07:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.4	1		02/14/09 07:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.4	1		02/14/09 07:43	79-00-5	
Trichloroethene	13.5	ug/kg	5.4	1		02/14/09 07:43	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.4	1		02/14/09 07:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.4	1		02/14/09 07:43	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.4	1		02/14/09 07:43	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.4	1		02/14/09 07:43	108-67-8	
Vinyl acetate	ND	ug/kg	108	1		02/14/09 07:43	108-05-4	
Vinyl chloride	ND	ug/kg	5.4	1		02/14/09 07:43	75-01-4	
Xylene (Total)	ND	ug/kg	10.8	1		02/14/09 07:43	1330-20-7	
Dibromofluoromethane (S)	93 %		80-124	1		02/14/09 07:43	1868-53-7	
Toluene-d8 (S)	106 %		58-145	1		02/14/09 07:43	2037-26-5	
4-Bromofluorobenzene (S)	89 %		61-131	1		02/14/09 07:43	460-00-4	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	7.3 %	0.10	1	02/13/09 18:18

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5023333

Sample: SB-14 (16-17) Lab ID: 5023333012 Collected: 02/13/09 14:55 Received: 02/13/09 16:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	106	1		02/14/09 08:23	67-64-1	
Acrolein	ND	ug/kg	106	1		02/14/09 08:23	107-02-8	
Acrylonitrile	ND	ug/kg	106	1		02/14/09 08:23	107-13-1	
Benzene	ND	ug/kg	5.3	1		02/14/09 08:23	71-43-2	
Bromobenzene	ND	ug/kg	5.3	1		02/14/09 08:23	108-86-1	
Bromochloromethane	ND	ug/kg	5.3	1		02/14/09 08:23	74-97-5	
Bromodichloromethane	ND	ug/kg	5.3	1		02/14/09 08:23	75-27-4	
Bromoform	ND	ug/kg	5.3	1		02/14/09 08:23	75-25-2	
Bromomethane	ND	ug/kg	5.3	1		02/14/09 08:23	74-83-9	
2-Butanone (MEK)	ND	ug/kg	26.5	1		02/14/09 08:23	78-93-3	
n-Butylbenzene	ND	ug/kg	5.3	1		02/14/09 08:23	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.3	1		02/14/09 08:23	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.3	1		02/14/09 08:23	98-06-6	
Carbon disulfide	ND	ug/kg	10.6	1		02/14/09 08:23	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.3	1		02/14/09 08:23	56-23-5	
Chlorobenzene	ND	ug/kg	5.3	1		02/14/09 08:23	108-90-7	
Chloroethane	ND	ug/kg	5.3	1		02/14/09 08:23	75-00-3	
Chloroform	ND	ug/kg	5.3	1		02/14/09 08:23	67-66-3	
Chloromethane	ND	ug/kg	5.3	1		02/14/09 08:23	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.3	1		02/14/09 08:23	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.3	1		02/14/09 08:23	106-43-4	
Dibromochloromethane	ND	ug/kg	5.3	1		02/14/09 08:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.3	1		02/14/09 08:23	106-93-4	
Dibromomethane	ND	ug/kg	5.3	1		02/14/09 08:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.3	1		02/14/09 08:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.3	1		02/14/09 08:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.3	1		02/14/09 08:23	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	106	1		02/14/09 08:23	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.3	1		02/14/09 08:23	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.3	1		02/14/09 08:23	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.3	1		02/14/09 08:23	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.3	1		02/14/09 08:23	75-35-4	
cis-1,2-Dichloroethene	7.3	ug/kg	5.3	1		02/14/09 08:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.3	1		02/14/09 08:23	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.3	1		02/14/09 08:23	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.3	1		02/14/09 08:23	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.3	1		02/14/09 08:23	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.3	1		02/14/09 08:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.3	1		02/14/09 08:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.3	1		02/14/09 08:23	10061-02-6	
Ethylbenzene	ND	ug/kg	5.3	1		02/14/09 08:23	100-41-4	
Ethyl methacrylate	ND	ug/kg	10.6	1		02/14/09 08:23	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.3	1		02/14/09 08:23	87-68-3	
n-Hexane	ND	ug/kg	5.3	1		02/14/09 08:23	110-54-3	
2-Hexanone	ND	ug/kg	106	1		02/14/09 08:23	591-78-6	
Iodomethane	ND	ug/kg	106	1		02/14/09 08:23	74-88-4	

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ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5023333

Sample: SB-14 (16-17) Lab ID: 5023333012 Collected: 02/13/09 14:55 Received: 02/13/09 16:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND	ug/kg	5.3	1		02/14/09 08:23	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.3	1		02/14/09 08:23	99-87-6	
Methylene chloride	ND	ug/kg	21.2	1		02/14/09 08:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	26.5	1		02/14/09 08:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.3	1		02/14/09 08:23	1634-04-4	
Naphthalene	ND	ug/kg	5.3	1		02/14/09 08:23	91-20-3	
n-Propylbenzene	ND	ug/kg	5.3	1		02/14/09 08:23	103-65-1	
Styrene	ND	ug/kg	5.3	1		02/14/09 08:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.3	1		02/14/09 08:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.3	1		02/14/09 08:23	79-34-5	
Tetrachloroethene	31600	ug/kg	2650	500		02/16/09 16:39	127-18-4	
Toluene	ND	ug/kg	5.3	1		02/14/09 08:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.3	1		02/14/09 08:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.3	1		02/14/09 08:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.3	1		02/14/09 08:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.3	1		02/14/09 08:23	79-00-5	
Trichloroethene	15.4	ug/kg	5.3	1		02/14/09 08:23	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.3	1		02/14/09 08:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.3	1		02/14/09 08:23	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.3	1		02/14/09 08:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.3	1		02/14/09 08:23	108-67-8	
Vinyl acetate	ND	ug/kg	106	1		02/14/09 08:23	108-05-4	
Vinyl chloride	ND	ug/kg	5.3	1		02/14/09 08:23	75-01-4	
Xylene (Total)	ND	ug/kg	10.6	1		02/14/09 08:23	1330-20-7	
Dibromofluoromethane (S)	94 %		80-124	1		02/14/09 08:23	1868-53-7	
Toluene-d8 (S)	107 %		58-145	1		02/14/09 08:23	2037-26-5	
4-Bromofluorobenzene (S)	83 %		61-131	1		02/14/09 08:23	460-00-4	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	5.8 %	0.10	1	02/13/09 18:18

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5023333

Sample: SB-14 (17-18) Lab ID: 5023333013 Collected: 02/13/09 15:00 Received: 02/13/09 16:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	115	1		02/14/09 08:59	67-64-1	
Acrolein	ND	ug/kg	115	1		02/14/09 08:59	107-02-8	
Acrylonitrile	ND	ug/kg	115	1		02/14/09 08:59	107-13-1	
Benzene	ND	ug/kg	5.8	1		02/14/09 08:59	71-43-2	
Bromobenzene	ND	ug/kg	5.8	1		02/14/09 08:59	108-86-1	
Bromochloromethane	ND	ug/kg	5.8	1		02/14/09 08:59	74-97-5	
Bromodichloromethane	ND	ug/kg	5.8	1		02/14/09 08:59	75-27-4	
Bromoform	ND	ug/kg	5.8	1		02/14/09 08:59	75-25-2	
Bromomethane	ND	ug/kg	5.8	1		02/14/09 08:59	74-83-9	
2-Butanone (MEK)	ND	ug/kg	28.8	1		02/14/09 08:59	78-93-3	
n-Butylbenzene	ND	ug/kg	5.8	1		02/14/09 08:59	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.8	1		02/14/09 08:59	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.8	1		02/14/09 08:59	98-06-6	
Carbon disulfide	ND	ug/kg	11.5	1		02/14/09 08:59	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.8	1		02/14/09 08:59	56-23-5	
Chlorobenzene	ND	ug/kg	5.8	1		02/14/09 08:59	108-90-7	
Chloroethane	ND	ug/kg	5.8	1		02/14/09 08:59	75-00-3	
Chloroform	ND	ug/kg	5.8	1		02/14/09 08:59	67-66-3	
Chloromethane	ND	ug/kg	5.8	1		02/14/09 08:59	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.8	1		02/14/09 08:59	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.8	1		02/14/09 08:59	106-43-4	
Dibromochloromethane	ND	ug/kg	5.8	1		02/14/09 08:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.8	1		02/14/09 08:59	106-93-4	
Dibromomethane	ND	ug/kg	5.8	1		02/14/09 08:59	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.8	1		02/14/09 08:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.8	1		02/14/09 08:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.8	1		02/14/09 08:59	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	115	1		02/14/09 08:59	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.8	1		02/14/09 08:59	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.8	1		02/14/09 08:59	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.8	1		02/14/09 08:59	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.8	1		02/14/09 08:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.8	1		02/14/09 08:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.8	1		02/14/09 08:59	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.8	1		02/14/09 08:59	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.8	1		02/14/09 08:59	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.8	1		02/14/09 08:59	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.8	1		02/14/09 08:59	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.8	1		02/14/09 08:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.8	1		02/14/09 08:59	10061-02-6	
Ethylbenzene	ND	ug/kg	5.8	1		02/14/09 08:59	100-41-4	
Ethyl methacrylate	ND	ug/kg	11.5	1		02/14/09 08:59	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.8	1		02/14/09 08:59	87-68-3	
n-Hexane	ND	ug/kg	5.8	1		02/14/09 08:59	110-54-3	
2-Hexanone	ND	ug/kg	115	1		02/14/09 08:59	591-78-6	
Iodomethane	ND	ug/kg	115	1		02/14/09 08:59	74-88-4	

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ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5023333

Sample: SB-14 (17-18) Lab ID: 5023333013 Collected: 02/13/09 15:00 Received: 02/13/09 16:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND	ug/kg	5.8	1		02/14/09 08:59	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.8	1		02/14/09 08:59	99-87-6	
Methylene chloride	ND	ug/kg	23.0	1		02/14/09 08:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	28.8	1		02/14/09 08:59	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.8	1		02/14/09 08:59	1634-04-4	
Naphthalene	ND	ug/kg	5.8	1		02/14/09 08:59	91-20-3	
n-Propylbenzene	ND	ug/kg	5.8	1		02/14/09 08:59	103-65-1	
Styrene	ND	ug/kg	5.8	1		02/14/09 08:59	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.8	1		02/14/09 08:59	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.8	1		02/14/09 08:59	79-34-5	
Tetrachloroethene	41100	ug/kg	2880	500		02/16/09 17:21	127-18-4	
Toluene	ND	ug/kg	5.8	1		02/14/09 08:59	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.8	1		02/14/09 08:59	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.8	1		02/14/09 08:59	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.8	1		02/14/09 08:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.8	1		02/14/09 08:59	79-00-5	
Trichloroethene	27.6	ug/kg	5.8	1		02/14/09 08:59	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.8	1		02/14/09 08:59	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.8	1		02/14/09 08:59	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.8	1		02/14/09 08:59	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.8	1		02/14/09 08:59	108-67-8	
Vinyl acetate	ND	ug/kg	115	1		02/14/09 08:59	108-05-4	
Vinyl chloride	ND	ug/kg	5.8	1		02/14/09 08:59	75-01-4	
Xylene (Total)	ND	ug/kg	11.5	1		02/14/09 08:59	1330-20-7	
Dibromofluoromethane (S)	92 %		80-124	1		02/14/09 08:59	1868-53-7	
Toluene-d8 (S)	108 %		58-145	1		02/14/09 08:59	2037-26-5	
4-Bromofluorobenzene (S)	84 %		61-131	1		02/14/09 08:59	460-00-4	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	13.2 %	0.10	1	02/13/09 18:18

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5023333

Sample: SB-11		Lab ID: 5023333014	Collected: 02/13/09 10:45	Received: 02/13/09 16:58	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND	ug/L	100	1		02/19/09 20:17	67-64-1	
Acrolein	ND	ug/L	100	1		02/19/09 20:17	107-02-8	
Acrylonitrile	ND	ug/L	100	1		02/19/09 20:17	107-13-1	
Benzene	ND	ug/L	5.0	1		02/19/09 20:17	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		02/19/09 20:17	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		02/19/09 20:17	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/19/09 20:17	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/19/09 20:17	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/19/09 20:17	74-83-9	
2-Butanone (MEK)	ND	ug/L	25.0	1		02/19/09 20:17	78-93-3	
n-Butylbenzene	ND	ug/L	5.0	1		02/19/09 20:17	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		02/19/09 20:17	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		02/19/09 20:17	98-06-6	
Carbon disulfide	ND	ug/L	10.0	1		02/19/09 20:17	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/19/09 20:17	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/19/09 20:17	108-90-7	
Chloroethane	ND	ug/L	5.0	1		02/19/09 20:17	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/19/09 20:17	67-66-3	
Chloromethane	ND	ug/L	5.0	1		02/19/09 20:17	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		02/19/09 20:17	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		02/19/09 20:17	106-43-4	
Dibromochloromethane	ND	ug/L	5.0	1		02/19/09 20:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/19/09 20:17	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		02/19/09 20:17	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/19/09 20:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/19/09 20:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/19/09 20:17	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		02/19/09 20:17	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.0	1		02/19/09 20:17	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/19/09 20:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/19/09 20:17	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/19/09 20:17	75-35-4	
cis-1,2-Dichloroethene	632	ug/L	50.0	10		02/20/09 08:58	156-59-2	
trans-1,2-Dichloroethene	10.4	ug/L	5.0	1		02/19/09 20:17	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/19/09 20:17	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		02/19/09 20:17	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		02/19/09 20:17	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		02/19/09 20:17	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/19/09 20:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/19/09 20:17	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/19/09 20:17	100-41-4	
Ethyl methacrylate	ND	ug/L	100	1		02/19/09 20:17	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		02/19/09 20:17	87-68-3	
n-Hexane	ND	ug/L	5.0	1		02/19/09 20:17	110-54-3	
2-Hexanone	ND	ug/L	25.0	1		02/19/09 20:17	591-78-6	
Iodomethane	ND	ug/L	10.0	1		02/19/09 20:17	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		02/19/09 20:17	98-82-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5023333

Sample: SB-11		Lab ID: 5023333014	Collected: 02/13/09 10:45	Received: 02/13/09 16:58	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
p-Isopropyltoluene	ND	ug/L	5.0	1		02/19/09 20:17	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		02/19/09 20:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		02/19/09 20:17	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		02/19/09 20:17	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		02/19/09 20:17	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		02/19/09 20:17	103-65-1	
Styrene	ND	ug/L	5.0	1		02/19/09 20:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/19/09 20:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/19/09 20:17	79-34-5	
Tetrachloroethene	177	ug/L	5.0	1		02/19/09 20:17	127-18-4	
Toluene	ND	ug/L	5.0	1		02/19/09 20:17	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		02/19/09 20:17	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		02/19/09 20:17	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/19/09 20:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/19/09 20:17	79-00-5	
Trichloroethene	10.2	ug/L	5.0	1		02/19/09 20:17	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/19/09 20:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/19/09 20:17	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		02/19/09 20:17	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		02/19/09 20:17	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		02/19/09 20:17	108-05-4	
Vinyl chloride	234	ug/L	2.0	1		02/19/09 20:17	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/19/09 20:17	1330-20-7	
Dibromofluoromethane (S)	102	%	80-123	1		02/19/09 20:17	1868-53-7	
4-Bromofluorobenzene (S)	107	%	70-126	1		02/19/09 20:17	460-00-4	
Toluene-d8 (S)	106	%	80-116	1		02/19/09 20:17	2037-26-5	

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5023333

Sample: SB-13		Lab ID: 5023333015		Collected: 02/13/09 12:30		Received: 02/13/09 16:58		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		02/19/09 20:47	67-64-1		
Acrolein	ND	ug/L	100	1		02/19/09 20:47	107-02-8		
Acrylonitrile	ND	ug/L	100	1		02/19/09 20:47	107-13-1		
Benzene	ND	ug/L	5.0	1		02/19/09 20:47	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		02/19/09 20:47	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		02/19/09 20:47	74-97-5		
Bromodichloromethane	ND	ug/L	5.0	1		02/19/09 20:47	75-27-4		
Bromoform	ND	ug/L	5.0	1		02/19/09 20:47	75-25-2		
Bromomethane	ND	ug/L	5.0	1		02/19/09 20:47	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		02/19/09 20:47	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		02/19/09 20:47	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		02/19/09 20:47	135-98-8		
tert-Butylbenzene	ND	ug/L	5.0	1		02/19/09 20:47	98-06-6		
Carbon disulfide	ND	ug/L	10.0	1		02/19/09 20:47	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		02/19/09 20:47	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		02/19/09 20:47	108-90-7		
Chloroethane	ND	ug/L	5.0	1		02/19/09 20:47	75-00-3		
Chloroform	ND	ug/L	5.0	1		02/19/09 20:47	67-66-3		
Chloromethane	ND	ug/L	5.0	1		02/19/09 20:47	74-87-3		
2-Chlorotoluene	ND	ug/L	5.0	1		02/19/09 20:47	95-49-8		
4-Chlorotoluene	ND	ug/L	5.0	1		02/19/09 20:47	106-43-4		
Dibromochloromethane	ND	ug/L	5.0	1		02/19/09 20:47	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/19/09 20:47	106-93-4		
Dibromomethane	ND	ug/L	5.0	1		02/19/09 20:47	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/19/09 20:47	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/19/09 20:47	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/19/09 20:47	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		02/19/09 20:47	110-57-6		
Dichlorodifluoromethane	ND	ug/L	5.0	1		02/19/09 20:47	75-71-8		
1,1-Dichloroethane	ND	ug/L	5.0	1		02/19/09 20:47	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		02/19/09 20:47	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	1		02/19/09 20:47	75-35-4		
cis-1,2-Dichloroethene	535	ug/L	250	50		02/20/09 09:28	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/19/09 20:47	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		02/19/09 20:47	78-87-5		
1,3-Dichloropropane	ND	ug/L	5.0	1		02/19/09 20:47	142-28-9		
2,2-Dichloropropane	ND	ug/L	5.0	1		02/19/09 20:47	594-20-7		
1,1-Dichloropropene	ND	ug/L	5.0	1		02/19/09 20:47	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/19/09 20:47	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/19/09 20:47	10061-02-6		
Ethylbenzene	ND	ug/L	5.0	1		02/19/09 20:47	100-41-4		
Ethyl methacrylate	ND	ug/L	100	1		02/19/09 20:47	97-63-2		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		02/19/09 20:47	87-68-3		
n-Hexane	ND	ug/L	5.0	1		02/19/09 20:47	110-54-3		
2-Hexanone	ND	ug/L	25.0	1		02/19/09 20:47	591-78-6		
Iodomethane	ND	ug/L	10.0	1		02/19/09 20:47	74-88-4		
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		02/19/09 20:47	98-82-8		

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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5023333

Sample: SB-13		Lab ID: 5023333015	Collected: 02/13/09 12:30	Received: 02/13/09 16:58	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
p-Isopropyltoluene	ND	ug/L	5.0	1		02/19/09 20:47	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		02/19/09 20:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		02/19/09 20:47	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		02/19/09 20:47	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		02/19/09 20:47	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		02/19/09 20:47	103-65-1	
Styrene	ND	ug/L	5.0	1		02/19/09 20:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/19/09 20:47	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/19/09 20:47	79-34-5	
Tetrachloroethene	8.4	ug/L	5.0	1		02/19/09 20:47	127-18-4	
Toluene	ND	ug/L	5.0	1		02/19/09 20:47	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		02/19/09 20:47	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		02/19/09 20:47	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/19/09 20:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/19/09 20:47	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/19/09 20:47	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/19/09 20:47	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/19/09 20:47	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		02/19/09 20:47	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		02/19/09 20:47	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		02/19/09 20:47	108-05-4	
Vinyl chloride	2240	ug/L	100	50		02/20/09 09:28	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/19/09 20:47	1330-20-7	
Dibromofluoromethane (S)	102	%	80-123	1		02/19/09 20:47	1868-53-7	
4-Bromofluorobenzene (S)	97	%	70-126	1		02/19/09 20:47	460-00-4	
Toluene-d8 (S)	97	%	80-116	1		02/19/09 20:47	2037-26-5	

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5023333

Sample: SB-12		Lab ID: 5023333016		Collected: 02/13/09 13:30		Received: 02/13/09 16:58		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV		Analytical Method: EPA 8260							
Acetone	ND	ug/L	100	1		02/19/09 21:17	67-64-1		
Acrolein	ND	ug/L	100	1		02/19/09 21:17	107-02-8		
Acrylonitrile	ND	ug/L	100	1		02/19/09 21:17	107-13-1		
Benzene	ND	ug/L	5.0	1		02/19/09 21:17	71-43-2		
Bromobenzene	ND	ug/L	5.0	1		02/19/09 21:17	108-86-1		
Bromochloromethane	ND	ug/L	5.0	1		02/19/09 21:17	74-97-5		
Bromodichloromethane	ND	ug/L	5.0	1		02/19/09 21:17	75-27-4		
Bromoform	ND	ug/L	5.0	1		02/19/09 21:17	75-25-2		
Bromomethane	ND	ug/L	5.0	1		02/19/09 21:17	74-83-9		
2-Butanone (MEK)	ND	ug/L	25.0	1		02/19/09 21:17	78-93-3		
n-Butylbenzene	ND	ug/L	5.0	1		02/19/09 21:17	104-51-8		
sec-Butylbenzene	ND	ug/L	5.0	1		02/19/09 21:17	135-98-8		
tert-Butylbenzene	ND	ug/L	5.0	1		02/19/09 21:17	98-06-6		
Carbon disulfide	ND	ug/L	10.0	1		02/19/09 21:17	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		02/19/09 21:17	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		02/19/09 21:17	108-90-7		
Chloroethane	ND	ug/L	5.0	1		02/19/09 21:17	75-00-3		
Chloroform	ND	ug/L	5.0	1		02/19/09 21:17	67-66-3		
Chloromethane	ND	ug/L	5.0	1		02/19/09 21:17	74-87-3		
2-Chlorotoluene	ND	ug/L	5.0	1		02/19/09 21:17	95-49-8		
4-Chlorotoluene	ND	ug/L	5.0	1		02/19/09 21:17	106-43-4		
Dibromochloromethane	ND	ug/L	5.0	1		02/19/09 21:17	124-48-1		
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/19/09 21:17	106-93-4		
Dibromomethane	ND	ug/L	5.0	1		02/19/09 21:17	74-95-3		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/19/09 21:17	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/19/09 21:17	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/19/09 21:17	106-46-7		
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1		02/19/09 21:17	110-57-6		
Dichlorodifluoromethane	ND	ug/L	5.0	1		02/19/09 21:17	75-71-8		
1,1-Dichloroethane	ND	ug/L	5.0	1		02/19/09 21:17	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		02/19/09 21:17	107-06-2		
1,1-Dichloroethene	5.7	ug/L	5.0	1		02/19/09 21:17	75-35-4		
cis-1,2-Dichloroethene	6800	ug/L	250	50		02/20/09 09:59	156-59-2		
trans-1,2-Dichloroethene	28.4	ug/L	5.0	1		02/19/09 21:17	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		02/19/09 21:17	78-87-5		
1,3-Dichloropropane	ND	ug/L	5.0	1		02/19/09 21:17	142-28-9		
2,2-Dichloropropane	ND	ug/L	5.0	1		02/19/09 21:17	594-20-7		
1,1-Dichloropropene	ND	ug/L	5.0	1		02/19/09 21:17	563-58-6		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/19/09 21:17	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/19/09 21:17	10061-02-6		
Ethylbenzene	ND	ug/L	5.0	1		02/19/09 21:17	100-41-4		
Ethyl methacrylate	ND	ug/L	100	1		02/19/09 21:17	97-63-2		
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		02/19/09 21:17	87-68-3		
n-Hexane	ND	ug/L	5.0	1		02/19/09 21:17	110-54-3		
2-Hexanone	ND	ug/L	25.0	1		02/19/09 21:17	591-78-6		
Iodomethane	ND	ug/L	10.0	1		02/19/09 21:17	74-88-4		
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		02/19/09 21:17	98-82-8		

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ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5023333

Sample: SB-12		Lab ID: 5023333016	Collected: 02/13/09 13:30	Received: 02/13/09 16:58	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
p-Isopropyltoluene	ND	ug/L	5.0	1		02/19/09 21:17	99-87-6	
Methylene chloride	ND	ug/L	5.0	1		02/19/09 21:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		02/19/09 21:17	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		02/19/09 21:17	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		02/19/09 21:17	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		02/19/09 21:17	103-65-1	
Styrene	ND	ug/L	5.0	1		02/19/09 21:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/19/09 21:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/19/09 21:17	79-34-5	
Tetrachloroethene	33.5	ug/L	5.0	1		02/19/09 21:17	127-18-4	
Toluene	ND	ug/L	5.0	1		02/19/09 21:17	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		02/19/09 21:17	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		02/19/09 21:17	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/19/09 21:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/19/09 21:17	79-00-5	
Trichloroethene	11.0	ug/L	5.0	1		02/19/09 21:17	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/19/09 21:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/19/09 21:17	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		02/19/09 21:17	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		02/19/09 21:17	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		02/19/09 21:17	108-05-4	
Vinyl chloride	9010	ug/L	100	50		02/20/09 09:59	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/19/09 21:17	1330-20-7	
Dibromofluoromethane (S)	115	%	80-123	1		02/19/09 21:17	1868-53-7	
4-Bromofluorobenzene (S)	98	%	70-126	1		02/19/09 21:17	460-00-4	
Toluene-d8 (S)	87	%	80-116	1		02/19/09 21:17	2037-26-5	

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5023333

Sample: SB-14		Lab ID: 5023333017	Collected: 02/13/09 15:10	Received: 02/13/09 16:58	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		100	1		02/19/09 21:47	67-64-1	
Acrolein	ND ug/L		100	1		02/19/09 21:47	107-02-8	
Acrylonitrile	ND ug/L		100	1		02/19/09 21:47	107-13-1	
Benzene	ND ug/L		5.0	1		02/19/09 21:47	71-43-2	
Bromobenzene	ND ug/L		5.0	1		02/19/09 21:47	108-86-1	
Bromochloromethane	ND ug/L		5.0	1		02/19/09 21:47	74-97-5	
Bromodichloromethane	ND ug/L		5.0	1		02/19/09 21:47	75-27-4	
Bromoform	ND ug/L		5.0	1		02/19/09 21:47	75-25-2	
Bromomethane	ND ug/L		5.0	1		02/19/09 21:47	74-83-9	
2-Butanone (MEK)	ND ug/L		25.0	1		02/19/09 21:47	78-93-3	
n-Butylbenzene	ND ug/L		5.0	1		02/19/09 21:47	104-51-8	
sec-Butylbenzene	ND ug/L		5.0	1		02/19/09 21:47	135-98-8	
tert-Butylbenzene	ND ug/L		5.0	1		02/19/09 21:47	98-06-6	
Carbon disulfide	ND ug/L		10.0	1		02/19/09 21:47	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		02/19/09 21:47	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		02/19/09 21:47	108-90-7	
Chloroethane	ND ug/L		5.0	1		02/19/09 21:47	75-00-3	
Chloroform	ND ug/L		5.0	1		02/19/09 21:47	67-66-3	
Chloromethane	ND ug/L		5.0	1		02/19/09 21:47	74-87-3	
2-Chlorotoluene	ND ug/L		5.0	1		02/19/09 21:47	95-49-8	
4-Chlorotoluene	ND ug/L		5.0	1		02/19/09 21:47	106-43-4	
Dibromochloromethane	ND ug/L		5.0	1		02/19/09 21:47	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		02/19/09 21:47	106-93-4	
Dibromomethane	ND ug/L		5.0	1		02/19/09 21:47	74-95-3	
1,2-Dichlorobenzene	ND ug/L		5.0	1		02/19/09 21:47	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		02/19/09 21:47	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		02/19/09 21:47	106-46-7	
trans-1,4-Dichloro-2-butene	ND ug/L		100	1		02/19/09 21:47	110-57-6	
Dichlorodifluoromethane	ND ug/L		5.0	1		02/19/09 21:47	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		02/19/09 21:47	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		02/19/09 21:47	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		02/19/09 21:47	75-35-4	
cis-1,2-Dichloroethene	176 ug/L		5.0	1		02/19/09 21:47	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		02/19/09 21:47	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		02/19/09 21:47	78-87-5	
1,3-Dichloropropane	ND ug/L		5.0	1		02/19/09 21:47	142-28-9	
2,2-Dichloropropane	ND ug/L		5.0	1		02/19/09 21:47	594-20-7	
1,1-Dichloropropene	ND ug/L		5.0	1		02/19/09 21:47	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		02/19/09 21:47	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		02/19/09 21:47	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		02/19/09 21:47	100-41-4	
Ethyl methacrylate	ND ug/L		100	1		02/19/09 21:47	97-63-2	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		02/19/09 21:47	87-68-3	
n-Hexane	ND ug/L		5.0	1		02/19/09 21:47	110-54-3	
2-Hexanone	ND ug/L		25.0	1		02/19/09 21:47	591-78-6	
Iodomethane	ND ug/L		10.0	1		02/19/09 21:47	74-88-4	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		02/19/09 21:47	98-82-8	

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ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5023333

Sample: SB-14		Lab ID: 5023333017	Collected: 02/13/09 15:10	Received: 02/13/09 16:58	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
p-Isopropyltoluene	ND ug/L		5.0	1		02/19/09 21:47	99-87-6	
Methylene chloride	ND ug/L		5.0	1		02/19/09 21:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		25.0	1		02/19/09 21:47	108-10-1	
Methyl-tert-butyl ether	ND ug/L		4.0	1		02/19/09 21:47	1634-04-4	
Naphthalene	ND ug/L		5.0	1		02/19/09 21:47	91-20-3	
n-Propylbenzene	ND ug/L		5.0	1		02/19/09 21:47	103-65-1	
Styrene	ND ug/L		5.0	1		02/19/09 21:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		5.0	1		02/19/09 21:47	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		02/19/09 21:47	79-34-5	
Tetrachloroethene	5.8 ug/L		5.0	1		02/19/09 21:47	127-18-4	
Toluene	ND ug/L		5.0	1		02/19/09 21:47	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		02/19/09 21:47	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		02/19/09 21:47	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		02/19/09 21:47	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		02/19/09 21:47	79-00-5	
Trichloroethene	ND ug/L		5.0	1		02/19/09 21:47	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		02/19/09 21:47	75-69-4	
1,2,3-Trichloropropane	ND ug/L		5.0	1		02/19/09 21:47	96-18-4	
1,2,4-Trimethylbenzene	ND ug/L		5.0	1		02/19/09 21:47	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		5.0	1		02/19/09 21:47	108-67-8	
Vinyl acetate	ND ug/L		10.0	1		02/19/09 21:47	108-05-4	
Vinyl chloride	251 ug/L		2.0	1		02/19/09 21:47	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		02/19/09 21:47	1330-20-7	
Dibromofluoromethane (S)	114 %		80-123	1		02/19/09 21:47	1868-53-7	
4-Bromofluorobenzene (S)	98 %		70-126	1		02/19/09 21:47	460-00-4	
Toluene-d8 (S)	86 %		80-116	1		02/19/09 21:47	2037-26-5	

QUALITY CONTROL DATA

Project: Michigan Plaza

Pace Project No.: 5023333

QC Batch: PMST/3341 Analysis Method: ASTM D2974-87
 QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
 Associated Lab Samples: 5023333001, 5023333002, 5023333003, 5023333004, 5023333005, 5023333006, 5023333007, 5023333008,
 5023333009, 5023333010, 5023333011, 5023333012, 5023333013

SAMPLE DUPLICATE: 263777

Parameter	Units	5023283002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	20.8	20.6	1	5	

SAMPLE DUPLICATE: 263778

Parameter	Units	5023333013 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	13.2	12.5	5	5	

SAMPLE DUPLICATE: 263779

Parameter	Units	5023198006 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	16.1	16.8	4	5	

QUALITY CONTROL DATA

Project: Michigan Plaza

Pace Project No.: 5023333

QC Batch:	MSV/14391	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV 5030 Low
Associated Lab Samples:	5023333001, 5023333002, 5023333003, 5023333004, 5023333005, 5023333006, 5023333007, 5023333008, 5023333009, 5023333010, 5023333011		

METHOD BLANK: 264102 Matrix: Solid

Associated Lab Samples: 5023333001, 5023333002, 5023333003, 5023333004, 5023333005, 5023333006, 5023333007, 5023333008, 5023333009, 5023333010, 5023333011, 5023333012, 5023333013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	02/14/09 00:55	
1,1,1-Trichloroethane	ug/kg	ND	5.0	02/14/09 00:55	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	02/14/09 00:55	
1,1,2-Trichloroethane	ug/kg	ND	5.0	02/14/09 00:55	
1,1-Dichloroethane	ug/kg	ND	5.0	02/14/09 00:55	
1,1-Dichloroethene	ug/kg	ND	5.0	02/14/09 00:55	
1,1-Dichloropropene	ug/kg	ND	5.0	02/14/09 00:55	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	02/14/09 00:55	
1,2,3-Trichloropropane	ug/kg	ND	5.0	02/14/09 00:55	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	02/14/09 00:55	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	02/14/09 00:55	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	02/14/09 00:55	
1,2-Dichlorobenzene	ug/kg	ND	5.0	02/14/09 00:55	
1,2-Dichloroethane	ug/kg	ND	5.0	02/14/09 00:55	
1,2-Dichloropropane	ug/kg	ND	5.0	02/14/09 00:55	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	02/14/09 00:55	
1,3-Dichlorobenzene	ug/kg	ND	5.0	02/14/09 00:55	
1,3-Dichloropropane	ug/kg	ND	5.0	02/14/09 00:55	
1,4-Dichlorobenzene	ug/kg	ND	5.0	02/14/09 00:55	
2,2-Dichloropropane	ug/kg	ND	5.0	02/14/09 00:55	
2-Butanone (MEK)	ug/kg	ND	25.0	02/14/09 00:55	
2-Chlorotoluene	ug/kg	ND	5.0	02/14/09 00:55	
2-Hexanone	ug/kg	ND	100	02/14/09 00:55	
4-Chlorotoluene	ug/kg	ND	5.0	02/14/09 00:55	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	02/14/09 00:55	
Acetone	ug/kg	ND	100	02/14/09 00:55	
Acrolein	ug/kg	ND	100	02/14/09 00:55	
Acrylonitrile	ug/kg	ND	100	02/14/09 00:55	
Benzene	ug/kg	ND	5.0	02/14/09 00:55	
Bromobenzene	ug/kg	ND	5.0	02/14/09 00:55	
Bromochloromethane	ug/kg	ND	5.0	02/14/09 00:55	
Bromodichloromethane	ug/kg	ND	5.0	02/14/09 00:55	
Bromoform	ug/kg	ND	5.0	02/14/09 00:55	
Bromomethane	ug/kg	ND	5.0	02/14/09 00:55	
Carbon disulfide	ug/kg	ND	10.0	02/14/09 00:55	
Carbon tetrachloride	ug/kg	ND	5.0	02/14/09 00:55	
Chlorobenzene	ug/kg	ND	5.0	02/14/09 00:55	
Chloroethane	ug/kg	ND	5.0	02/14/09 00:55	
Chloroform	ug/kg	ND	5.0	02/14/09 00:55	
Chloromethane	ug/kg	ND	5.0	02/14/09 00:55	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	02/14/09 00:55	

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QUALITY CONTROL DATA

Project: Michigan Plaza

Pace Project No.: 5023333

METHOD BLANK: 264102

Matrix: Solid

Associated Lab Samples: 5023333001, 5023333002, 5023333003, 5023333004, 5023333005, 5023333006, 5023333007, 5023333008, 5023333009, 5023333010, 5023333011, 5023333012, 5023333013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/kg	ND	5.0	02/14/09 00:55	
Dibromochloromethane	ug/kg	ND	5.0	02/14/09 00:55	
Dibromomethane	ug/kg	ND	5.0	02/14/09 00:55	
Dichlorodifluoromethane	ug/kg	ND	5.0	02/14/09 00:55	
Ethyl methacrylate	ug/kg	ND	10.0	02/14/09 00:55	
Ethylbenzene	ug/kg	ND	5.0	02/14/09 00:55	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	02/14/09 00:55	
Iodomethane	ug/kg	ND	100	02/14/09 00:55	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	02/14/09 00:55	
Methyl-tert-butyl ether	ug/kg	ND	5.0	02/14/09 00:55	
Methylene chloride	ug/kg	ND	20.0	02/14/09 00:55	
n-Butylbenzene	ug/kg	ND	5.0	02/14/09 00:55	
n-Hexane	ug/kg	ND	5.0	02/14/09 00:55	
n-Propylbenzene	ug/kg	ND	5.0	02/14/09 00:55	
Naphthalene	ug/kg	ND	5.0	02/14/09 00:55	
p-Isopropyltoluene	ug/kg	ND	5.0	02/14/09 00:55	
sec-Butylbenzene	ug/kg	ND	5.0	02/14/09 00:55	
Styrene	ug/kg	ND	5.0	02/14/09 00:55	
tert-Butylbenzene	ug/kg	ND	5.0	02/14/09 00:55	
Tetrachloroethene	ug/kg	ND	5.0	02/14/09 00:55	
Toluene	ug/kg	ND	5.0	02/14/09 00:55	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	02/14/09 00:55	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	02/14/09 00:55	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	02/14/09 00:55	
Trichloroethene	ug/kg	ND	5.0	02/14/09 00:55	
Trichlorofluoromethane	ug/kg	ND	5.0	02/14/09 00:55	
Vinyl acetate	ug/kg	ND	100	02/14/09 00:55	
Vinyl chloride	ug/kg	ND	5.0	02/14/09 00:55	
Xylene (Total)	ug/kg	ND	10.0	02/14/09 00:55	
4-Bromofluorobenzene (S)	%	102	61-131	02/14/09 00:55	
Dibromofluoromethane (S)	%	110	80-124	02/14/09 00:55	
Toluene-d8 (S)	%	98	58-145	02/14/09 00:55	

LABORATORY CONTROL SAMPLE: 264103

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	49.6	99	65-124	
1,1,1-Trichloroethane	ug/kg	50	51.5	103	61-135	
1,1,2,2-Tetrachloroethane	ug/kg	50	50.3	101	66-124	
1,1,2-Trichloroethane	ug/kg	50	53.8	108	74-127	
1,1-Dichloroethane	ug/kg	50	46.1	92	62-132	
1,1-Dichloroethene	ug/kg	50	43.6	87	61-123	
1,1-Dichloropropene	ug/kg	50	47.7	95	74-128	
1,2,3-Trichlorobenzene	ug/kg	50	44.3	89	60-125	

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QUALITY CONTROL DATA

Project: Michigan Plaza

Pace Project No.: 5023333

LABORATORY CONTROL SAMPLE: 264103

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/kg	50	48.7	97	61-120	
1,2,4-Trichlorobenzene	ug/kg	50	40.5	81	58-126	
1,2,4-Trimethylbenzene	ug/kg	50	48.4	97	72-120	
1,2-Dibromoethane (EDB)	ug/kg	50	52.2	104	74-119	
1,2-Dichlorobenzene	ug/kg	50	50.3	101	75-117	
1,2-Dichloroethane	ug/kg	50	51.2	102	62-135	
1,2-Dichloropropane	ug/kg	50	49.8	100	74-124	
1,3,5-Trimethylbenzene	ug/kg	50	50.9	102	73-122	
1,3-Dichlorobenzene	ug/kg	50	48.2	96	73-120	
1,3-Dichloropropane	ug/kg	50	53.0	106	71-122	
1,4-Dichlorobenzene	ug/kg	50	46.5	93	72-118	
2,2-Dichloropropane	ug/kg	50	45.3	91	53-136	
2-Butanone (MEK)	ug/kg	250	296	118	33-190	
2-Chlorotoluene	ug/kg	50	45.8	92	72-122	
2-Hexanone	ug/kg	250	303	121	44-168	
4-Chlorotoluene	ug/kg	50	47.7	95	72-120	
4-Methyl-2-pentanone (MIBK)	ug/kg	250	263	105	58-126	
Acetone	ug/kg	250	272	109	30-190	
Acrolein	ug/kg	1000	1440	144	30-190	
Acrylonitrile	ug/kg	1000	1020	102	65-129	
Benzene	ug/kg	50	51.1	102	76-123	
Bromobenzene	ug/kg	50	52.2	104	74-116	
Bromochloromethane	ug/kg	50	47.2	94	56-143	
Bromodichloromethane	ug/kg	50	52.2	104	67-123	
Bromoform	ug/kg	50	49.5	99	58-117	
Bromomethane	ug/kg	50	38.2	76	47-147	
Carbon disulfide	ug/kg	100	91.7	92	56-141	
Carbon tetrachloride	ug/kg	50	46.3	93	54-136	
Chlorobenzene	ug/kg	50	49.3	99	75-115	
Chloroethane	ug/kg	50	44.4	89	57-147	
Chloroform	ug/kg	50	48.6	97	74-123	
Chloromethane	ug/kg	50	40.9	82	31-155	
cis-1,2-Dichloroethene	ug/kg	50	49.0	98	76-119	
cis-1,3-Dichloropropene	ug/kg	50	47.6	95	56-110	
Dibromochloromethane	ug/kg	50	51.2	102	63-122	
Dibromomethane	ug/kg	50	51.1	102	70-127	
Dichlorodifluoromethane	ug/kg	50	41.8	84	30-170	
Ethyl methacrylate	ug/kg	50	52.2	104	58-126	
Ethylbenzene	ug/kg	50	52.9	106	78-121	
Hexachloro-1,3-butadiene	ug/kg	50	46.2	92	65-128	
Iodomethane	ug/kg	100	93.1J	93	38-173	
Isopropylbenzene (Cumene)	ug/kg	50	47.3	95	75-128	
Methyl-tert-butyl ether	ug/kg	100	111	111	59-142	
Methylene chloride	ug/kg	50	50.2	100	30-170	
n-Butylbenzene	ug/kg	50	42.3	85	70-123	
n-Hexane	ug/kg	50	53.6	107	76-143	
n-Propylbenzene	ug/kg	50	51.4	103	70-126	
Naphthalene	ug/kg	50	47.1	94	60-128	

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QUALITY CONTROL DATA

Project: Michigan Plaza

Pace Project No.: 5023333

LABORATORY CONTROL SAMPLE: 264103

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
p-Isopropyltoluene	ug/kg	50	42.9	86	65-125	
sec-Butylbenzene	ug/kg	50	46.8	94	72-125	
Styrene	ug/kg	50	46.2	92	75-118	
tert-Butylbenzene	ug/kg	50	42.9	86	61-114	
Tetrachloroethene	ug/kg	50	44.4	89	63-117	
Toluene	ug/kg	50	51.4	103	72-123	
trans-1,2-Dichloroethene	ug/kg	50	47.2	94	70-122	
trans-1,3-Dichloropropene	ug/kg	50	45.2	90	55-107	
trans-1,4-Dichloro-2-butene	ug/kg	50	39.5J	79	49-127	
Trichloroethene	ug/kg	50	51.1	102	74-121	
Trichlorofluoromethane	ug/kg	50	38.9	78	55-156	
Vinyl acetate	ug/kg	200	135	67	46-127	
Vinyl chloride	ug/kg	50	42.5	85	50-146	
Xylene (Total)	ug/kg	150	155	104	77-120	
4-Bromofluorobenzene (S)	%			101	61-131	
Dibromofluoromethane (S)	%			94	80-124	
Toluene-d8 (S)	%			105	58-145	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 264104

264105

Parameter	Units	5023333013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/kg	ND	57.6	57.6	34.7	32.0	60	56	20-133	8	20
1,1,1-Trichloroethane	ug/kg	ND	57.6	57.6	39.0	37.8	68	66	27-142	3	20
1,1,2,2-Tetrachloroethane	ug/kg	ND	57.6	57.6	34.7	28.3	60	49	20-159	20	20
1,1,2-Trichloroethane	ug/kg	ND	57.6	57.6	43.0	38.5	75	67	20-155	11	20
1,1-Dichloroethane	ug/kg	ND	57.6	57.6	39.2	35.7	68	62	31-141	9	20
1,1-Dichloroethene	ug/kg	ND	57.6	57.6	40.6	37.7	70	65	23-132	8	20
1,1-Dichloropropene	ug/kg	ND	57.6	57.6	33.4	30.8	58	53	20-146	8	20
1,2,3-Trichlorobenzene	ug/kg	ND	57.6	57.6	5.5J	ND	10	0	20-140		20 J
1,2,3-Trichloropropane	ug/kg	ND	57.6	57.6	38.3	29.1	67	50	20-153	27	20 R1
1,2,4-Trichlorobenzene	ug/kg	ND	57.6	57.6	5.4J	ND	9	0	20-120		20 M0
1,2,4-Trimethylbenzene	ug/kg	ND	57.6	57.6	19.2	15.6	33	27	20-156	21	20 R1
1,2-Dibromoethane (EDB)	ug/kg	ND	57.6	57.6	36.3	33.3	63	58	20-143	9	20
1,2-Dichlorobenzene	ug/kg	ND	57.6	57.6	14.2	11.8	25	21	20-133	18	20
1,2-Dichloroethane	ug/kg	ND	57.6	57.6	40.1	37.8	70	66	30-143	6	20
1,2-Dichloropropane	ug/kg	ND	57.6	57.6	36.8	34.4	64	60	30-140	7	20
1,3,5-Trimethylbenzene	ug/kg	ND	57.6	57.6	26.6	22.5	46	39	20-143	17	20
1,3-Dichlorobenzene	ug/kg	ND	57.6	57.6	16.6	13.7	29	24	20-136	19	20
1,3-Dichloropropane	ug/kg	ND	57.6	57.6	41.1	37.2	71	65	30-144	10	20
1,4-Dichlorobenzene	ug/kg	ND	57.6	57.6	15.3	12.6	27	22	30-135	20	20 M0
2,2-Dichloropropane	ug/kg	ND	57.6	57.6	32.8	33.3	57	58	30-143	2	20
2-Butanone (MEK)	ug/kg	ND	288	288	310	284	108	99	30-190	9	20
2-Chlorotoluene	ug/kg	ND	57.6	57.6	27.1	22.7	47	39	30-170	18	20
2-Hexanone	ug/kg	ND	288	288	243	216	84	75	30-170	12	20
4-Chlorotoluene	ug/kg	ND	57.6	57.6	22.5	18.5	39	32	30-143	19	20
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	288	288	230	210	80	73	30-144	9	20

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QUALITY CONTROL DATA

Project: Michigan Plaza

Pace Project No.: 5023333

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 264104 264105											
Parameter	Units	5023333013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Acetone	ug/kg	ND	288	288	309	274	107	95	30-180	12	20
Acrolein	ug/kg	ND	1150	1150	1190	1140	103	99	30-180	4	20
Acrylonitrile	ug/kg	ND	1150	1150	903	841	78	73	30-141	7	20
Benzene	ug/kg	ND	57.6	57.6	42.7	39.5	74	69	50-135	8	20
Bromobenzene	ug/kg	ND	57.6	57.6	20.4	18.1	35	31	30-125	12	20
Bromochloromethane	ug/kg	ND	57.6	57.6	40.6	37.1	70	64	30-159	9	20
Bromodichloromethane	ug/kg	ND	57.6	57.6	36.2	33.5	63	58	30-141	8	20
Bromoform	ug/kg	ND	57.6	57.6	37.6	33.3	65	58	30-135	12	20
Bromomethane	ug/kg	ND	57.6	57.6	36.5	35.2	63	61	30-137	3	20
Carbon disulfide	ug/kg	ND	115	115	81.1	72.0	70	63	30-156	12	20
Carbon tetrachloride	ug/kg	ND	57.6	57.6	32.5	32.2	56	56	30-130	1	20
Chlorobenzene	ug/kg	ND	57.6	57.6	27.0	24.1	47	42	30-137	11	20
Chloroethane	ug/kg	ND	57.6	57.6	45.4	42.1	79	73	35-143	7	20
Chloroform	ug/kg	ND	57.6	57.6	40.7	37.5	69	64	30-136	8	20
Chloromethane	ug/kg	ND	57.6	57.6	44.4	40.6	77	70	28-134	9	20
cis-1,2-Dichloroethene	ug/kg	ND	57.6	57.6	44.4	40.2	68	61	30-141	10	20
cis-1,3-Dichloropropene	ug/kg	ND	57.6	57.6	34.7	32.3	60	56	30-126	7	20
Dibromochloromethane	ug/kg	ND	57.6	57.6	44.1	41.3	77	72	30-129	7	20
Dibromomethane	ug/kg	ND	57.6	57.6	36.7	33.4	64	58	30-153	9	20
Dichlorodifluoromethane	ug/kg	ND	57.6	57.6	40.8	38.5	71	67	30-150	6	20
Ethyl methacrylate	ug/kg	ND	57.6	57.6	30.3	28.8	53	50	30-170	5	20
Ethylbenzene	ug/kg	ND	57.6	57.6	28.6	26.0	50	45	50-150	9	20
Hexachloro-1,3-butadiene	ug/kg	ND	57.6	57.6	12.9	11.0	22	19	30-138	16	20 MO
Iodomethane	ug/kg	ND	115	115	77.2J	70.8J	67	61	30-180		20
Isopropylbenzene (Cumene)	ug/kg	ND	57.6	57.6	16.9	15.2	29	26	50-150	10	20 MO
Methyl-tert-butyl ether	ug/kg	ND	115	115	98.0	93.7	85	81	40-149	4	20
Methylene chloride	ug/kg	ND	57.6	57.6	41.1	38.8	71	67	30-163	6	20
n-Butylbenzene	ug/kg	ND	57.6	57.6	10.9	9.3	19	16	40-152	15	20 MO
n-Hexane	ug/kg	ND	57.6	57.6	29.3	26.7	51	46	40-155	9	20
n-Propylbenzene	ug/kg	ND	57.6	57.6	27.4	23.4	47	41	40-170	15	20
Naphthalene	ug/kg	ND	57.6	57.6	ND	ND	0	0	50-128		20 MO
p-Isopropyltoluene	ug/kg	ND	57.6	57.6	24.3	21.4	42	37	40-167	13	20
sec-Butylbenzene	ug/kg	ND	57.6	57.6	20.3	18.5	35	32	40-168	9	20 MO
Styrene	ug/kg	ND	57.6	57.6	18.8	16.7	33	29	30-141	12	20
tert-Butylbenzene	ug/kg	ND	57.6	57.6	24.3	21.4	42	37	40-144	13	20
Tetrachloroethene	ug/kg	41100	57.6	57.6	8050	7470	-57328	-58325	40-155	7	20 MO
Toluene	ug/kg	ND	57.6	57.6	38.9	35.8	67	61	50-149	8	20
trans-1,2-Dichloroethene	ug/kg	ND	57.6	57.6	41.3	38.1	72	66	40-140	8	20
trans-1,3-Dichloropropene	ug/kg	ND	57.6	57.6	29.4	28.3	51	49	40-130	4	20
trans-1,4-Dichloro-2-butene	ug/kg	ND	57.6	57.6	22.1J	20.9J	38	36	30-150		20
Trichloroethene	ug/kg	27.6	57.6	57.6	72.8	68.4	78	71	40-153	6	20
Trichlorofluoromethane	ug/kg	ND	57.6	57.6	38.5	36.5	67	63	43-140	5	20
Vinyl acetate	ug/kg	ND	230	230	17.6J	15.5J	8	7	30-120		20 MO
Vinyl chloride	ug/kg	ND	57.6	57.6	43.9	40.9	76	71	36-137	7	20
Xylene (Total)	ug/kg	ND	173	173	79.2	72.2	46	42	50-143	9	20
4-Bromofluorobenzene (S)	%						88	91	61-131		20
Dibromofluoromethane (S)	%						91	90	80-124		20

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QUALITY CONTROL DATA

Project: Michigan Plaza

Pace Project No.: 5023333

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 264104264105												
Parameter	Units	5023333013	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual	
		Result	Spike	Spike								Result
Toluene-d8 (S)	%						114	114	58-145	20		

QUALITY CONTROL DATA

Project: Michigan Plaza

Pace Project No.: 5023333

QC Batch: MSV/14503 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5023333014, 5023333015, 5023333016, 5023333017

METHOD BLANK: 266024 Matrix: Water

Associated Lab Samples: 5023333014, 5023333015, 5023333016, 5023333017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	02/19/09 19:46	
1,1,1-Trichloroethane	ug/L	ND	5.0	02/19/09 19:46	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	02/19/09 19:46	
1,1,2-Trichloroethane	ug/L	ND	5.0	02/19/09 19:46	
1,1-Dichloroethane	ug/L	ND	5.0	02/19/09 19:46	
1,1-Dichloroethene	ug/L	ND	5.0	02/19/09 19:46	
1,1-Dichloropropene	ug/L	ND	5.0	02/19/09 19:46	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	02/19/09 19:46	
1,2,3-Trichloropropane	ug/L	ND	5.0	02/19/09 19:46	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	02/19/09 19:46	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	02/19/09 19:46	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	02/19/09 19:46	
1,2-Dichlorobenzene	ug/L	ND	5.0	02/19/09 19:46	
1,2-Dichloroethane	ug/L	ND	5.0	02/19/09 19:46	
1,2-Dichloropropane	ug/L	ND	5.0	02/19/09 19:46	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	02/19/09 19:46	
1,3-Dichlorobenzene	ug/L	ND	5.0	02/19/09 19:46	
1,3-Dichloropropane	ug/L	ND	5.0	02/19/09 19:46	
1,4-Dichlorobenzene	ug/L	ND	5.0	02/19/09 19:46	
2,2-Dichloropropane	ug/L	ND	5.0	02/19/09 19:46	
2-Butanone (MEK)	ug/L	ND	25.0	02/19/09 19:46	
2-Chlorotoluene	ug/L	ND	5.0	02/19/09 19:46	
2-Hexanone	ug/L	ND	25.0	02/19/09 19:46	
4-Chlorotoluene	ug/L	ND	5.0	02/19/09 19:46	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	02/19/09 19:46	
Acetone	ug/L	ND	100	02/19/09 19:46	
Acrolein	ug/L	ND	100	02/19/09 19:46	
Acrylonitrile	ug/L	ND	100	02/19/09 19:46	
Benzene	ug/L	ND	5.0	02/19/09 19:46	
Bromobenzene	ug/L	ND	5.0	02/19/09 19:46	
Bromochloromethane	ug/L	ND	5.0	02/19/09 19:46	
Bromodichloromethane	ug/L	ND	5.0	02/19/09 19:46	
Bromoform	ug/L	ND	5.0	02/19/09 19:46	
Bromomethane	ug/L	ND	5.0	02/19/09 19:46	
Carbon disulfide	ug/L	ND	10.0	02/19/09 19:46	
Carbon tetrachloride	ug/L	ND	5.0	02/19/09 19:46	
Chlorobenzene	ug/L	ND	5.0	02/19/09 19:46	
Chloroethane	ug/L	ND	5.0	02/19/09 19:46	
Chloroform	ug/L	ND	5.0	02/19/09 19:46	
Chloromethane	ug/L	ND	5.0	02/19/09 19:46	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/19/09 19:46	
cis-1,3-Dichloropropene	ug/L	ND	5.0	02/19/09 19:46	
Dibromochloromethane	ug/L	ND	5.0	02/19/09 19:46	

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QUALITY CONTROL DATA

Project: Michigan Plaza

Pace Project No.: 5023333

METHOD BLANK: 266024

Matrix: Water

Associated Lab Samples: 5023333014, 5023333015, 5023333016, 5023333017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	5.0	02/19/09 19:46	
Dichlorodifluoromethane	ug/L	ND	5.0	02/19/09 19:46	
Ethyl methacrylate	ug/L	ND	100	02/19/09 19:46	
Ethylbenzene	ug/L	ND	5.0	02/19/09 19:46	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	02/19/09 19:46	
Iodomethane	ug/L	ND	10.0	02/19/09 19:46	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	02/19/09 19:46	
Methyl-tert-butyl ether	ug/L	ND	4.0	02/19/09 19:46	
Methylene chloride	ug/L	ND	5.0	02/19/09 19:46	
n-Butylbenzene	ug/L	ND	5.0	02/19/09 19:46	
n-Hexane	ug/L	ND	5.0	02/19/09 19:46	
n-Propylbenzene	ug/L	ND	5.0	02/19/09 19:46	
Naphthalene	ug/L	ND	5.0	02/19/09 19:46	
p-Isopropyltoluene	ug/L	ND	5.0	02/19/09 19:46	
sec-Butylbenzene	ug/L	ND	5.0	02/19/09 19:46	
Styrene	ug/L	ND	5.0	02/19/09 19:46	
tert-Butylbenzene	ug/L	ND	5.0	02/19/09 19:46	
Tetrachloroethene	ug/L	ND	5.0	02/19/09 19:46	
Toluene	ug/L	ND	5.0	02/19/09 19:46	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/19/09 19:46	
trans-1,3-Dichloropropene	ug/L	ND	5.0	02/19/09 19:46	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	02/19/09 19:46	
Trichloroethene	ug/L	ND	5.0	02/19/09 19:46	
Trichlorofluoromethane	ug/L	ND	5.0	02/19/09 19:46	
Vinyl acetate	ug/L	ND	10.0	02/19/09 19:46	
Vinyl chloride	ug/L	ND	2.0	02/19/09 19:46	
Xylene (Total)	ug/L	ND	10.0	02/19/09 19:46	
4-Bromofluorobenzene (S)	%	97	70-126	02/19/09 19:46	
Dibromofluoromethane (S)	%	102	80-123	02/19/09 19:46	
Toluene-d8 (S)	%	96	80-116	02/19/09 19:46	

LABORATORY CONTROL SAMPLE: 266025

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.0	98	69-130	
1,1,1-Trichloroethane	ug/L	50	50.0	100	69-136	
1,1,2,2-Tetrachloroethane	ug/L	50	44.2	88	69-131	
1,1,2-Trichloroethane	ug/L	50	47.7	95	77-132	
1,1-Dichloroethane	ug/L	50	48.3	97	67-133	
1,1-Dichloroethene	ug/L	50	48.3	97	63-128	
1,1-Dichloropropene	ug/L	50	51.8	104	75-134	
1,2,3-Trichlorobenzene	ug/L	50	50.8	102	58-131	
1,2,3-Trichloropropane	ug/L	50	47.5	95	60-131	
1,2,4-Trichlorobenzene	ug/L	50	49.9	100	60-130	
1,2,4-Trimethylbenzene	ug/L	50	44.6	89	73-130	

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QUALITY CONTROL DATA

Project: Michigan Plaza

Pace Project No.: 5023333

LABORATORY CONTROL SAMPLE: 266025

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	50	55.3	111	75-126	
1,2-Dichlorobenzene	ug/L	50	48.7	97	76-124	
1,2-Dichloroethane	ug/L	50	53.3	107	69-139	
1,2-Dichloropropane	ug/L	50	54.6	109	76-129	
1,3,5-Trimethylbenzene	ug/L	50	47.3	95	74-130	
1,3-Dichlorobenzene	ug/L	50	48.7	97	76-125	
1,3-Dichloropropane	ug/L	50	51.0	102	74-126	
1,4-Dichlorobenzene	ug/L	50	43.7	87	75-122	
2,2-Dichloropropane	ug/L	50	40.8	82	53-144	
2-Butanone (MEK)	ug/L	250	329	132	47-189	
2-Chlorotoluene	ug/L	50	50.1	100	72-128	
2-Hexanone	ug/L	250	343	137	57-167	
4-Chlorotoluene	ug/L	50	50.2	100	73-124	
4-Methyl-2-pentanone (MIBK)	ug/L	250	266	106	61-135	
Acetone	ug/L	250	437	175	30-170	L3
Acrolein	ug/L	1000	118	12	30-170	L0
Acrylonitrile	ug/L	1000	1030	103	67-136	
Benzene	ug/L	50	51.4	103	78-127	
Bromobenzene	ug/L	50	46.7	93	62-139	
Bromochloromethane	ug/L	50	54.3	109	54-162	
Bromodichloromethane	ug/L	50	53.1	106	69-133	
Bromoform	ug/L	50	52.8	106	60-127	
Bromomethane	ug/L	50	71.2	142	30-170	
Carbon disulfide	ug/L	100	89.6	90	58-152	
Carbon tetrachloride	ug/L	50	51.5	103	62-143	
Chlorobenzene	ug/L	50	50.1	100	75-123	
Chloroethane	ug/L	50	54.9	110	56-153	
Chloroform	ug/L	50	52.2	104	74-131	
Chloromethane	ug/L	50	43.4	87	35-147	
cis-1,2-Dichloroethene	ug/L	50	50.2	100	74-128	
cis-1,3-Dichloropropene	ug/L	50	47.1	94	58-123	
Dibromochloromethane	ug/L	50	49.1	98	66-131	
Dibromomethane	ug/L	50	56.2	112	73-133	
Dichlorodifluoromethane	ug/L	50	44.6	89	30-170	
Ethyl methacrylate	ug/L	50	43.4J	87	59-138	
Ethylbenzene	ug/L	50	48.9	98	81-126	
Hexachloro-1,3-butadiene	ug/L	50	46.6	93	70-130	
Iodomethane	ug/L	100	168	168	41-170	
Isopropylbenzene (Cumene)	ug/L	50	49.8	100	80-130	
Methyl-tert-butyl ether	ug/L	100	104	104	66-147	
Methylene chloride	ug/L	50	50.0	100	32-164	
n-Butylbenzene	ug/L	50	44.7	89	68-135	
n-Hexane	ug/L	50	50.8	102	69-157	
n-Propylbenzene	ug/L	50	51.2	102	71-132	
Naphthalene	ug/L	50	47.4	95	61-135	
p-Isopropyltoluene	ug/L	50	45.4	91	66-131	
sec-Butylbenzene	ug/L	50	50.4	101	73-130	
Styrene	ug/L	50	47.6	95	74-128	

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QUALITY CONTROL DATA

Project: Michigan Plaza

Pace Project No.: 5023333

LABORATORY CONTROL SAMPLE: 266025

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	49.0	98	63-117	
Tetrachloroethene	ug/L	50	25.0	50	60-119	L0
Toluene	ug/L	50	49.2	98	75-129	
trans-1,2-Dichloroethene	ug/L	50	51.0	102	71-126	
trans-1,3-Dichloropropene	ug/L	50	42.4	85	54-123	
trans-1,4-Dichloro-2-butene	ug/L	50	42.1J	84	47-141	
Trichloroethene	ug/L	50	60.8	122	74-130	
Trichlorofluoromethane	ug/L	50	51.0	102	62-150	
Vinyl acetate	ug/L	200	74.2	37	41-145	L0
Vinyl chloride	ug/L	50	46.3	93	55-141	
Xylene (Total)	ug/L	150	146	98	76-132	
4-Bromofluorobenzene (S)	%			98	70-126	
Dibromofluoromethane (S)	%			102	80-123	
Toluene-d8 (S)	%			96	80-116	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 266026

266027

Parameter	Units	5023333017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	50.6	49.5	101	99	55-131	2	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	64.6	61.5	129	123	64-143	5	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	55.2	51.5	110	103	64-142	7	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	50.0	47.9	100	96	71-143	4	20	
1,1-Dichloroethane	ug/L	ND	50	50	61.3	59.6	123	119	68-139	3	20	
1,1-Dichloroethene	ug/L	ND	50	50	63.4	60.8	125	120	55-140	4	20	
1,1-Dichloropropene	ug/L	ND	50	50	63.7	57.2	127	114	66-140	11	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	47.9	46.7	96	93	33-140	2	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	50.3	46.7	101	93	58-133	8	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	44.6	43.3	89	87	28-140	3	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	44.8	39.3	90	79	39-146	13	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	52.3	47.9	105	96	67-134	9	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	48.7	43.0	97	86	48-137	12	20	
1,2-Dichloroethane	ug/L	ND	50	50	66.1	62.5	132	125	63-148	6	20	
1,2-Dichloropropane	ug/L	ND	50	50	59.0	57.6	118	115	70-136	2	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	48.2	43.5	96	87	39-145	10	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	48.8	42.1	98	84	40-143	15	20	
1,3-Dichloropropane	ug/L	ND	50	50	49.9	46.7	100	93	65-133	7	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	42.7	36.4	85	73	38-142	16	20	
2,2-Dichloropropane	ug/L	ND	50	50	55.0	54.1	110	108	35-157	2	20	
2-Butanone (MEK)	ug/L	ND	250	250	313	286	125	114	62-132	9	20	
2-Chlorotoluene	ug/L	ND	50	50	49.8	45.9	100	92	44-143	8	20	
2-Hexanone	ug/L	ND	250	250	270	244	108	98	61-141	10	20	
4-Chlorotoluene	ug/L	ND	50	50	49.1	44.3	98	89	43-140	10	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	262	241	105	96	57-135	9	20	
Acetone	ug/L	ND	250	250	324	291	130	116	30-170	11	20	
Acrolein	ug/L	ND	1000	1000	684	660	68	66	30-170	4	20	
Acrylonitrile	ug/L	ND	1000	1000	1270	1180	127	118	66-137	8	20	

Date: 02/25/2009 03:30 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Michigan Plaza

Pace Project No.: 5023333

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 266026 266027											
Parameter	Units	5023333017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Benzene	ug/L	ND	50	50	63.4	60.0	127	120	63-141	6	20
Bromobenzene	ug/L	ND	50	50	48.0	41.7	96	83	57-128	14	20
Bromochloromethane	ug/L	ND	50	50	66.1	65.5	132	131	65-157	1	20
Bromodichloromethane	ug/L	ND	50	50	59.1	56.4	118	113	63-135	5	20
Bromoform	ug/L	ND	50	50	52.7	50.5	105	101	58-124	4	20
Bromomethane	ug/L	ND	50	50	87.8	92.2	176	184	30-170	5	20 M0
Carbon disulfide	ug/L	ND	100	100	116	106	116	106	46-162	9	20
Carbon tetrachloride	ug/L	ND	50	50	62.5	57.5	125	115	54-145	8	20
Chlorobenzene	ug/L	ND	50	50	52.3	46.9	105	94	56-133	11	20
Chloroethane	ug/L	ND	50	50	75.0	72.5	150	145	54-157	3	20
Chloroform	ug/L	ND	50	50	65.1	64.1	130	128	67-134	2	20
Chloromethane	ug/L	ND	50	50	63.0	58.8	126	118	36-137	7	20
cis-1,2-Dichloroethene	ug/L	176	50	50	240	236	128	119	65-132	2	20
cis-1,3-Dichloropropene	ug/L	ND	50	50	43.2	41.9	86	84	46-121	3	20
Dibromochloromethane	ug/L	ND	50	50	47.2	44.7	94	89	64-124	5	20
Dibromomethane	ug/L	ND	50	50	62.9	60.5	126	121	67-144	4	20
Dichlorodifluoromethane	ug/L	ND	50	50	57.5	52.6	115	105	30-163	9	20
Ethyl methacrylate	ug/L	ND	50	50	46.3J	44.5J	93	89	52-140		20
Ethylbenzene	ug/L	ND	50	50	51.3	45.7	103	91	44-151	11	20
Hexachloro-1,3-butadiene	ug/L	ND	50	50	44.6	41.8	89	84	30-145	7	20
Iodomethane	ug/L	ND	100	100	192	213	192	213	28-168	11	20 M0
Isopropylbenzene (Cumene)	ug/L	ND	50	50	52.8	44.6	106	89	40-148	17	20
Methyl-tert-butyl ether	ug/L	ND	100	100	131	127	131	127	52-156	3	20
Methylene chloride	ug/L	ND	50	50	63.3	62.3	127	125	46-154	1	20
n-Butylbenzene	ug/L	ND	50	50	44.3	35.6	89	71	27-153	22	20 R1
n-Hexane	ug/L	ND	50	50	53.4	47.8	107	96	32-176	11	20
n-Propylbenzene	ug/L	ND	50	50	52.7	44.6	105	89	40-148	16	20
Naphthalene	ug/L	ND	50	50	46.4	45.5	93	91	44-138	2	20
p-Isopropyltoluene	ug/L	ND	50	50	46.8	39.5	94	79	34-146	17	20
sec-Butylbenzene	ug/L	ND	50	50	51.3	43.1	103	86	38-150	18	20
Styrene	ug/L	ND	50	50	48.3	43.5	97	87	38-141	10	20
tert-Butylbenzene	ug/L	ND	50	50	51.8	43.0	104	86	32-133	19	20
Tetrachloroethene	ug/L	5.8	50	50	27.0	23.9	42	36	25-146	12	20
Toluene	ug/L	ND	50	50	46.7	42.8	93	85	59-142	9	20
trans-1,2-Dichloroethene	ug/L	ND	50	50	64.7	61.4	128	122	60-137	5	20
trans-1,3-Dichloropropene	ug/L	ND	50	50	43.4	40.7	87	81	43-117	6	20
trans-1,4-Dichloro-2-butene	ug/L	ND	50	50	45.9J	38.4J	92	77	44-139		20
Trichloroethene	ug/L	ND	50	50	63.1	57.8	120	109	61-137	9	20
Trichlorofluoromethane	ug/L	ND	50	50	67.6	60.9	135	122	53-162	11	20
Vinyl acetate	ug/L	ND	200	200	219	212	110	106	24-132	4	20
Vinyl chloride	ug/L	251	50	50	323	300	145	98	51-144	8	20
Xylene (Total)	ug/L	ND	150	150	154	134	102	89	44-152	14	20
4-Bromofluorobenzene (S)	%						99	96	70-126		20
Dibromofluoromethane (S)	%						113	115	80-123		20
Toluene-d8 (S)	%						86	85	80-116		20

QUALIFIERS

Project: Michigan Plaza

Pace Project No.: 5023333

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.

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

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

ANALYTE QUALIFIERS

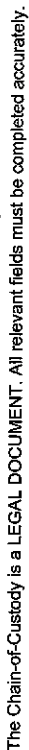
J	Analyte detected below reporting limit, therefore result is an estimate.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M0	Matrix spike recovery was outside laboratory control limits.
R1	RPD value was outside control limits.



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: Mundell & Associates		Report To: Leend Lothe		Attention: Mundell & Associates	
Address: 110 South Downey		Copy To: Indy IN 46219		Company Name: Mundell & Associates	
Email To: Indy IN 46219		Purchase Order No.: 110000		Address: INDY IN 46219	
Phone: 730-9000		Project Name: Michigan Plaza		Pace Quote Reference: INDY IN 46219	
Fax: 730-9000		Project Number: INDY IN 46219		Pace Project Manager: INDY IN 46219	
Requested Due Date/TAT: 1 DAY		Matrix Codes: water: normal turn		Pace Profile #: INDY IN 46219	
Section D Required Client Information		Section E Requested Analysis Filtered (Y/N)		Section F Requested Analysis Filtered (Y/N)	
SAMPLE ID (A-Z, 0-9 / .)		SAMPLE TYPE (G=GRAB C=COMP)		SAMPLE TYPE (G=GRAB C=COMP)	
Sample IDs MUST BE UNIQUE		MATRIX CODE		MATRIX CODE	
Drinking Water Waste Water Product Soil/Solid Oil Wipe Air Tissue Other		DW WT WW P SL OL WP AR TS OT		DW WT WW P SL OL WP AR TS OT	
ITEM #		COLLECTED		COLLECTED	
DATE		DATE		DATE	
TIME		TIME		TIME	
COMPOSITE START		COMPOSITE END/GRAB		COMPOSITE END/GRAB	
DATE		DATE		DATE	
TIME		TIME		TIME	
SAMPLE TEMP AT COLLECTION		SAMPLE TEMP AT COLLECTION		SAMPLE TEMP AT COLLECTION	
# OF CONTAINERS		# OF CONTAINERS		# OF CONTAINERS	
Preservatives		Preservatives		Preservatives	
H ₂ SO ₄		H ₂ SO ₄		H ₂ SO ₄	
HNO ₃		HNO ₃		HNO ₃	
HCl		HCl		HCl	
NaOH		NaOH		NaOH	
Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃		Na ₂ S ₂ O ₃	
Methanol		Methanol		Methanol	
Other		Other		Other	
Analysis Test		Analysis Test		Analysis Test	
Residual Chlorine (Y/N)		Residual Chlorine (Y/N)		Residual Chlorine (Y/N)	
Pace Project No. / Lab I.D.		Pace Project No. / Lab I.D.		Pace Project No. / Lab I.D.	
001		001		001	
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ADDITIONAL COMMENTS		ADDITIONAL COMMENTS		ADDITIONAL COMMENTS	
RELINQUISHED BY / AFFILIATION		RELINQUISHED BY / AFFILIATION		RELINQUISHED BY / AFFILIATION	
DATE		DATE		DATE	
TIME		TIME		TIME	
ACCEPTED BY / AFFILIATION		ACCEPTED BY / AFFILIATION		ACCEPTED BY / AFFILIATION	
DATE		DATE		DATE	
TIME		TIME		TIME	
SAMPLE CONDITIONS		SAMPLE CONDITIONS		SAMPLE CONDITIONS	
Received on		Received on		Received on	
Temp in °C		Temp in °C		Temp in °C	
Sealed Cooler		Sealed Cooler		Sealed Cooler	
Samples Intact		Samples Intact		Samples Intact	
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ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE Drinking Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Tissue TS Other OT	COLLECTED				SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS										
			COMPOSITE START	COMPOSITE END/GRAB	DATE	TIME																			
SAMPLE ID (A-Z, 0-9 / -)																									
Sample IDs MUST BE UNIQUE																									
1	SB-12				2/13	1330		WT G																	
2	SB-14 (13-14)				2/13	1440		SL G																	
3	SB-14 (16-17)				2/13	1455		SL G																	
4	SB-14 (17-18)				2/13	1500		SL G						013	run MS/MSD										
5	SB-14				2/13	1510		WT G						017	run MS/MSD										
6																									
7																									
8																									
9																									
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11																									
12																									
ADDITIONAL COMMENTS										RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS			
5501L-1 DAY TURN										Sarah Webb / MHA		2/13		1600		Khandalee		2/13		1658		Y N			
Water - Standard turn.																									

SAMPLER NAME AND SIGNATURE	PRINT Name of SAMPLER:	SARAH WEBB	DATE Signed (MM/DD/YY):	2/13/09	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	SIGNATURE of SAMPLER:	<i>Sarah Webb</i>						

ORIGINAL

UNIVERSITY OF TEXAS	15-May-2007
F-ALL-Q-020rev.07. 15-May-2007	
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

Client Name: Mundell Assoc Project # 5023333Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other None

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ noPacking Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____Thermometer Used 123456 Type of Ice: Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begunCooler Temperature 3-0C

Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: 2/13/09

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.
Samples Arrived within Hold Time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time Analysis (<72hr):	☒ Yes ☐ No ☐ N/A	6.
Rush Turn Around Time Requested:	☒ Yes ☐ No ☐ N/A	7.
Sufficient Volume:	☒ Yes ☐ No ☐ N/A	8.
Correct Containers Used:	☒ Yes ☐ No ☐ N/A	9.
-Pace Containers Used:	☒ Yes ☐ No ☐ N/A	
Containers Intact:	☒ Yes ☐ No ☐ N/A	10.
Filtered volume received for Dissolved tests	☐ Yes ☐ No ☒ N/A	11.
Sample Labels match COC:	☒ Yes ☐ No ☐ N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>WT/SC</u>		
All containers needing preservation have been checked.	☐ Yes ☐ No ☒ N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes ☐ No ☒ N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐ Yes ☐ No	Initial when completed
Samples checked for dechlorination:	☐ Yes ☐ No ☒ N/A	Lot # of added preservative
Headspace in VOA Vials (>6mm):	☐ Yes ☒ No ☐ N/A	14.
Trip Blank Present:	☐ Yes ☐ No ☒ N/A	15.
Trip Blank Custody Seals Present	☐ Yes ☐ No ☒ N/A	16.
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: P3Date: 2/13/09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

February 11, 2009

Leena Lothe
Mundell & Associates, Inc.
110 South Downey Avenue
Indianapolis, IN 46219

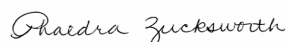
RE: Project: Michigan Plaza
Pace Project No.: 5023037

Dear Leena Lothe:

Enclosed are the analytical results for sample(s) received by the laboratory on February 06, 2009. The results relate only to the samples included in this report. 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,



Phaedra Zucksworth

phaedra.zucksworth@pacelabs.com
Project Manager

Illinois/NELAC Certification #: 100418
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Ohio VAP: CL0065
Pennsylvania: 68-00791
West Virginia Certification #: 330

Enclosures

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Michigan Plaza

Pace Project No.: 5023037

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5023037001	SB-5 (3-4)	Solid	02/05/09 16:58	02/06/09 11:30
5023037002	SB-5 (9-10)	Solid	02/05/09 17:00	02/06/09 11:30
5023037003	SB-5 (15-16)	Solid	02/05/09 17:02	02/06/09 11:30
5023037004	SB-6 (5-6)	Solid	02/05/09 16:30	02/06/09 11:30
5023037005	SB-6 (7-8)	Solid	02/05/09 16:55	02/06/09 11:30
5023037006	SB-6 (14-15)	Solid	02/05/09 16:57	02/06/09 11:30

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SAMPLE ANALYTE COUNT

Project: Michigan Plaza

Pace Project No.: 5023037

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5023037001	SB-5 (3-4)	ASTM D2974-87	RAK	1
		EPA 8260	ALA	73
5023037002	SB-5 (9-10)	ASTM D2974-87	RAK	1
		EPA 8260	ALA	73
5023037003	SB-5 (15-16)	ASTM D2974-87	RAK	1
		EPA 8260	ALA	73
5023037004	SB-6 (5-6)	ASTM D2974-87	RAK	1
		EPA 8260	ALA	73
5023037005	SB-6 (7-8)	ASTM D2974-87	RAK	1
		EPA 8260	ALA	73
5023037006	SB-6 (14-15)	ASTM D2974-87	RAK	1
		EPA 8260	ALA	73

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ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5023037

Sample: SB-5 (3-4) Lab ID: 5023037001 Collected: 02/05/09 16:58 Received: 02/06/09 11:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	118	1		02/06/09 21:35	67-64-1	
Acrolein	ND	ug/kg	118	1		02/06/09 21:35	107-02-8	
Acrylonitrile	ND	ug/kg	118	1		02/06/09 21:35	107-13-1	
Benzene	ND	ug/kg	5.9	1		02/06/09 21:35	71-43-2	
Bromobenzene	ND	ug/kg	5.9	1		02/06/09 21:35	108-86-1	
Bromochloromethane	ND	ug/kg	5.9	1		02/06/09 21:35	74-97-5	
Bromodichloromethane	ND	ug/kg	5.9	1		02/06/09 21:35	75-27-4	
Bromoform	ND	ug/kg	5.9	1		02/06/09 21:35	75-25-2	
Bromomethane	ND	ug/kg	5.9	1		02/06/09 21:35	74-83-9	
2-Butanone (MEK)	ND	ug/kg	29.5	1		02/06/09 21:35	78-93-3	
n-Butylbenzene	ND	ug/kg	5.9	1		02/06/09 21:35	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.9	1		02/06/09 21:35	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.9	1		02/06/09 21:35	98-06-6	
Carbon disulfide	ND	ug/kg	11.8	1		02/06/09 21:35	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.9	1		02/06/09 21:35	56-23-5	
Chlorobenzene	ND	ug/kg	5.9	1		02/06/09 21:35	108-90-7	
Chloroethane	ND	ug/kg	5.9	1		02/06/09 21:35	75-00-3	
Chloroform	ND	ug/kg	5.9	1		02/06/09 21:35	67-66-3	
Chloromethane	ND	ug/kg	5.9	1		02/06/09 21:35	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.9	1		02/06/09 21:35	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.9	1		02/06/09 21:35	106-43-4	
Dibromochloromethane	ND	ug/kg	5.9	1		02/06/09 21:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.9	1		02/06/09 21:35	106-93-4	
Dibromomethane	ND	ug/kg	5.9	1		02/06/09 21:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.9	1		02/06/09 21:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.9	1		02/06/09 21:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.9	1		02/06/09 21:35	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	118	1		02/06/09 21:35	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.9	1		02/06/09 21:35	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.9	1		02/06/09 21:35	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.9	1		02/06/09 21:35	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.9	1		02/06/09 21:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.9	1		02/06/09 21:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.9	1		02/06/09 21:35	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.9	1		02/06/09 21:35	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.9	1		02/06/09 21:35	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.9	1		02/06/09 21:35	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.9	1		02/06/09 21:35	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.9	1		02/06/09 21:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.9	1		02/06/09 21:35	10061-02-6	
Ethylbenzene	ND	ug/kg	5.9	1		02/06/09 21:35	100-41-4	
Ethyl methacrylate	ND	ug/kg	11.8	1		02/06/09 21:35	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.9	1		02/06/09 21:35	87-68-3	
n-Hexane	ND	ug/kg	5.9	1		02/06/09 21:35	110-54-3	
2-Hexanone	ND	ug/kg	118	1		02/06/09 21:35	591-78-6	
Iodomethane	ND	ug/kg	118	1		02/06/09 21:35	74-88-4	

Date: 02/11/2009 03:06 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5023037

Sample: SB-5 (3-4) Lab ID: 5023037001 Collected: 02/05/09 16:58 Received: 02/06/09 11:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND	ug/kg	5.9	1		02/06/09 21:35	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.9	1		02/06/09 21:35	99-87-6	
Methylene chloride	ND	ug/kg	23.6	1		02/06/09 21:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	29.5	1		02/06/09 21:35	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.9	1		02/06/09 21:35	1634-04-4	
Naphthalene	ND	ug/kg	5.9	1		02/06/09 21:35	91-20-3	
n-Propylbenzene	ND	ug/kg	5.9	1		02/06/09 21:35	103-65-1	
Styrene	ND	ug/kg	5.9	1		02/06/09 21:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.9	1		02/06/09 21:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.9	1		02/06/09 21:35	79-34-5	
Tetrachloroethene	ND	ug/kg	5.9	1		02/06/09 21:35	127-18-4	
Toluene	ND	ug/kg	5.9	1		02/06/09 21:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.9	1		02/06/09 21:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.9	1		02/06/09 21:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.9	1		02/06/09 21:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.9	1		02/06/09 21:35	79-00-5	
Trichloroethene	ND	ug/kg	5.9	1		02/06/09 21:35	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.9	1		02/06/09 21:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.9	1		02/06/09 21:35	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.9	1		02/06/09 21:35	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.9	1		02/06/09 21:35	108-67-8	
Vinyl acetate	ND	ug/kg	118	1		02/06/09 21:35	108-05-4	
Vinyl chloride	ND	ug/kg	5.9	1		02/06/09 21:35	75-01-4	
Xylene (Total)	ND	ug/kg	11.8	1		02/06/09 21:35	1330-20-7	
Dibromofluoromethane (S)	109 %		80-124	1		02/06/09 21:35	1868-53-7	
Toluene-d8 (S)	92 %		58-145	1		02/06/09 21:35	2037-26-5	
4-Bromofluorobenzene (S)	95 %		61-131	1		02/06/09 21:35	460-00-4	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	15.2 %	0.10	1	02/06/09 15:46

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5023037

Sample: SB-5 (9-10) Lab ID: 5023037002 Collected: 02/05/09 17:00 Received: 02/06/09 11:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	121	1		02/06/09 22:12	67-64-1	
Acrolein	ND	ug/kg	121	1		02/06/09 22:12	107-02-8	
Acrylonitrile	ND	ug/kg	121	1		02/06/09 22:12	107-13-1	
Benzene	ND	ug/kg	6.1	1		02/06/09 22:12	71-43-2	
Bromobenzene	ND	ug/kg	6.1	1		02/06/09 22:12	108-86-1	
Bromochloromethane	ND	ug/kg	6.1	1		02/06/09 22:12	74-97-5	
Bromodichloromethane	ND	ug/kg	6.1	1		02/06/09 22:12	75-27-4	
Bromoform	ND	ug/kg	6.1	1		02/06/09 22:12	75-25-2	
Bromomethane	ND	ug/kg	6.1	1		02/06/09 22:12	74-83-9	
2-Butanone (MEK)	ND	ug/kg	30.3	1		02/06/09 22:12	78-93-3	
n-Butylbenzene	ND	ug/kg	6.1	1		02/06/09 22:12	104-51-8	
sec-Butylbenzene	ND	ug/kg	6.1	1		02/06/09 22:12	135-98-8	
tert-Butylbenzene	ND	ug/kg	6.1	1		02/06/09 22:12	98-06-6	
Carbon disulfide	ND	ug/kg	12.1	1		02/06/09 22:12	75-15-0	
Carbon tetrachloride	ND	ug/kg	6.1	1		02/06/09 22:12	56-23-5	
Chlorobenzene	ND	ug/kg	6.1	1		02/06/09 22:12	108-90-7	
Chloroethane	ND	ug/kg	6.1	1		02/06/09 22:12	75-00-3	
Chloroform	ND	ug/kg	6.1	1		02/06/09 22:12	67-66-3	
Chloromethane	ND	ug/kg	6.1	1		02/06/09 22:12	74-87-3	
2-Chlorotoluene	ND	ug/kg	6.1	1		02/06/09 22:12	95-49-8	
4-Chlorotoluene	ND	ug/kg	6.1	1		02/06/09 22:12	106-43-4	
Dibromochloromethane	ND	ug/kg	6.1	1		02/06/09 22:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	6.1	1		02/06/09 22:12	106-93-4	
Dibromomethane	ND	ug/kg	6.1	1		02/06/09 22:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	6.1	1		02/06/09 22:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	6.1	1		02/06/09 22:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	6.1	1		02/06/09 22:12	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	121	1		02/06/09 22:12	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	6.1	1		02/06/09 22:12	75-71-8	
1,1-Dichloroethane	ND	ug/kg	6.1	1		02/06/09 22:12	75-34-3	
1,2-Dichloroethane	ND	ug/kg	6.1	1		02/06/09 22:12	107-06-2	
1,1-Dichloroethene	ND	ug/kg	6.1	1		02/06/09 22:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	6.1	1		02/06/09 22:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	6.1	1		02/06/09 22:12	156-60-5	
1,2-Dichloropropane	ND	ug/kg	6.1	1		02/06/09 22:12	78-87-5	
1,3-Dichloropropane	ND	ug/kg	6.1	1		02/06/09 22:12	142-28-9	
2,2-Dichloropropane	ND	ug/kg	6.1	1		02/06/09 22:12	594-20-7	
1,1-Dichloropropene	ND	ug/kg	6.1	1		02/06/09 22:12	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	6.1	1		02/06/09 22:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	6.1	1		02/06/09 22:12	10061-02-6	
Ethylbenzene	ND	ug/kg	6.1	1		02/06/09 22:12	100-41-4	
Ethyl methacrylate	ND	ug/kg	12.1	1		02/06/09 22:12	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	6.1	1		02/06/09 22:12	87-68-3	
n-Hexane	ND	ug/kg	6.1	1		02/06/09 22:12	110-54-3	
2-Hexanone	ND	ug/kg	121	1		02/06/09 22:12	591-78-6	
Iodomethane	ND	ug/kg	121	1		02/06/09 22:12	74-88-4	

Date: 02/11/2009 03:06 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5023037

Sample: SB-5 (9-10) Lab ID: 5023037002 Collected: 02/05/09 17:00 Received: 02/06/09 11:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND	ug/kg	6.1	1		02/06/09 22:12	98-82-8	
p-Isopropyltoluene	ND	ug/kg	6.1	1		02/06/09 22:12	99-87-6	
Methylene chloride	ND	ug/kg	24.2	1		02/06/09 22:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	30.3	1		02/06/09 22:12	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	6.1	1		02/06/09 22:12	1634-04-4	
Naphthalene	ND	ug/kg	6.1	1		02/06/09 22:12	91-20-3	
n-Propylbenzene	ND	ug/kg	6.1	1		02/06/09 22:12	103-65-1	
Styrene	ND	ug/kg	6.1	1		02/06/09 22:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	6.1	1		02/06/09 22:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.1	1		02/06/09 22:12	79-34-5	
Tetrachloroethene	ND	ug/kg	6.1	1		02/06/09 22:12	127-18-4	
Toluene	ND	ug/kg	6.1	1		02/06/09 22:12	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	6.1	1		02/06/09 22:12	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	6.1	1		02/06/09 22:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	6.1	1		02/06/09 22:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	6.1	1		02/06/09 22:12	79-00-5	
Trichloroethene	ND	ug/kg	6.1	1		02/06/09 22:12	79-01-6	
Trichlorofluoromethane	ND	ug/kg	6.1	1		02/06/09 22:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	6.1	1		02/06/09 22:12	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	6.1	1		02/06/09 22:12	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	6.1	1		02/06/09 22:12	108-67-8	
Vinyl acetate	ND	ug/kg	121	1		02/06/09 22:12	108-05-4	
Vinyl chloride	ND	ug/kg	6.1	1		02/06/09 22:12	75-01-4	
Xylene (Total)	ND	ug/kg	12.1	1		02/06/09 22:12	1330-20-7	
Dibromofluoromethane (S)	106 %		80-124	1		02/06/09 22:12	1868-53-7	
Toluene-d8 (S)	94 %		58-145	1		02/06/09 22:12	2037-26-5	
4-Bromofluorobenzene (S)	94 %		61-131	1		02/06/09 22:12	460-00-4	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	17.5 %	0.10	1	02/06/09 15:47

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5023037

Sample: SB-5 (15-16) Lab ID: 5023037003 Collected: 02/05/09 17:02 Received: 02/06/09 11:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	107	1		02/06/09 22:48	67-64-1	
Acrolein	ND	ug/kg	107	1		02/06/09 22:48	107-02-8	
Acrylonitrile	ND	ug/kg	107	1		02/06/09 22:48	107-13-1	
Benzene	ND	ug/kg	5.4	1		02/06/09 22:48	71-43-2	
Bromobenzene	ND	ug/kg	5.4	1		02/06/09 22:48	108-86-1	
Bromochloromethane	ND	ug/kg	5.4	1		02/06/09 22:48	74-97-5	
Bromodichloromethane	ND	ug/kg	5.4	1		02/06/09 22:48	75-27-4	
Bromoform	ND	ug/kg	5.4	1		02/06/09 22:48	75-25-2	
Bromomethane	ND	ug/kg	5.4	1		02/06/09 22:48	74-83-9	
2-Butanone (MEK)	ND	ug/kg	26.8	1		02/06/09 22:48	78-93-3	
n-Butylbenzene	ND	ug/kg	5.4	1		02/06/09 22:48	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.4	1		02/06/09 22:48	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.4	1		02/06/09 22:48	98-06-6	
Carbon disulfide	ND	ug/kg	10.7	1		02/06/09 22:48	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.4	1		02/06/09 22:48	56-23-5	
Chlorobenzene	ND	ug/kg	5.4	1		02/06/09 22:48	108-90-7	
Chloroethane	ND	ug/kg	5.4	1		02/06/09 22:48	75-00-3	
Chloroform	ND	ug/kg	5.4	1		02/06/09 22:48	67-66-3	
Chloromethane	ND	ug/kg	5.4	1		02/06/09 22:48	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.4	1		02/06/09 22:48	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.4	1		02/06/09 22:48	106-43-4	
Dibromochloromethane	ND	ug/kg	5.4	1		02/06/09 22:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.4	1		02/06/09 22:48	106-93-4	
Dibromomethane	ND	ug/kg	5.4	1		02/06/09 22:48	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.4	1		02/06/09 22:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.4	1		02/06/09 22:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.4	1		02/06/09 22:48	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	107	1		02/06/09 22:48	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.4	1		02/06/09 22:48	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.4	1		02/06/09 22:48	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.4	1		02/06/09 22:48	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.4	1		02/06/09 22:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.4	1		02/06/09 22:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.4	1		02/06/09 22:48	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.4	1		02/06/09 22:48	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.4	1		02/06/09 22:48	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.4	1		02/06/09 22:48	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.4	1		02/06/09 22:48	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.4	1		02/06/09 22:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.4	1		02/06/09 22:48	10061-02-6	
Ethylbenzene	ND	ug/kg	5.4	1		02/06/09 22:48	100-41-4	
Ethyl methacrylate	ND	ug/kg	10.7	1		02/06/09 22:48	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.4	1		02/06/09 22:48	87-68-3	
n-Hexane	ND	ug/kg	5.4	1		02/06/09 22:48	110-54-3	
2-Hexanone	ND	ug/kg	107	1		02/06/09 22:48	591-78-6	
Iodomethane	ND	ug/kg	107	1		02/06/09 22:48	74-88-4	

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ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5023037

Sample: SB-5 (15-16) Lab ID: 5023037003 Collected: 02/05/09 17:02 Received: 02/06/09 11:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND	ug/kg	5.4	1		02/06/09 22:48	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.4	1		02/06/09 22:48	99-87-6	
Methylene chloride	ND	ug/kg	21.5	1		02/06/09 22:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	26.8	1		02/06/09 22:48	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.4	1		02/06/09 22:48	1634-04-4	
Naphthalene	ND	ug/kg	5.4	1		02/06/09 22:48	91-20-3	
n-Propylbenzene	ND	ug/kg	5.4	1		02/06/09 22:48	103-65-1	
Styrene	ND	ug/kg	5.4	1		02/06/09 22:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.4	1		02/06/09 22:48	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.4	1		02/06/09 22:48	79-34-5	
Tetrachloroethene	ND	ug/kg	5.4	1		02/06/09 22:48	127-18-4	
Toluene	ND	ug/kg	5.4	1		02/06/09 22:48	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.4	1		02/06/09 22:48	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.4	1		02/06/09 22:48	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.4	1		02/06/09 22:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.4	1		02/06/09 22:48	79-00-5	
Trichloroethene	ND	ug/kg	5.4	1		02/06/09 22:48	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.4	1		02/06/09 22:48	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.4	1		02/06/09 22:48	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.4	1		02/06/09 22:48	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.4	1		02/06/09 22:48	108-67-8	
Vinyl acetate	ND	ug/kg	107	1		02/06/09 22:48	108-05-4	
Vinyl chloride	ND	ug/kg	5.4	1		02/06/09 22:48	75-01-4	
Xylene (Total)	ND	ug/kg	10.7	1		02/06/09 22:48	1330-20-7	
Dibromofluoromethane (S)	116 %		80-124	1		02/06/09 22:48	1868-53-7	
Toluene-d8 (S)	93 %		58-145	1		02/06/09 22:48	2037-26-5	
4-Bromofluorobenzene (S)	96 %		61-131	1		02/06/09 22:48	460-00-4	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	6.8 %	0.10	1	02/06/09 15:47

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5023037

Sample: SB-6 (5-6) Lab ID: 5023037004 Collected: 02/05/09 16:30 Received: 02/06/09 11:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Acetone	ND ug/kg		106	1		02/06/09 23:24	67-64-1	
Acrolein	ND ug/kg		106	1		02/06/09 23:24	107-02-8	
Acrylonitrile	ND ug/kg		106	1		02/06/09 23:24	107-13-1	
Benzene	ND ug/kg		5.3	1		02/06/09 23:24	71-43-2	
Bromobenzene	ND ug/kg		5.3	1		02/06/09 23:24	108-86-1	
Bromochloromethane	ND ug/kg		5.3	1		02/06/09 23:24	74-97-5	
Bromodichloromethane	ND ug/kg		5.3	1		02/06/09 23:24	75-27-4	
Bromoform	ND ug/kg		5.3	1		02/06/09 23:24	75-25-2	
Bromomethane	ND ug/kg		5.3	1		02/06/09 23:24	74-83-9	
2-Butanone (MEK)	ND ug/kg		26.6	1		02/06/09 23:24	78-93-3	
n-Butylbenzene	ND ug/kg		5.3	1		02/06/09 23:24	104-51-8	
sec-Butylbenzene	ND ug/kg		5.3	1		02/06/09 23:24	135-98-8	
tert-Butylbenzene	ND ug/kg		5.3	1		02/06/09 23:24	98-06-6	
Carbon disulfide	ND ug/kg		10.6	1		02/06/09 23:24	75-15-0	
Carbon tetrachloride	ND ug/kg		5.3	1		02/06/09 23:24	56-23-5	
Chlorobenzene	ND ug/kg		5.3	1		02/06/09 23:24	108-90-7	
Chloroethane	ND ug/kg		5.3	1		02/06/09 23:24	75-00-3	
Chloroform	ND ug/kg		5.3	1		02/06/09 23:24	67-66-3	
Chloromethane	ND ug/kg		5.3	1		02/06/09 23:24	74-87-3	
2-Chlorotoluene	ND ug/kg		5.3	1		02/06/09 23:24	95-49-8	
4-Chlorotoluene	ND ug/kg		5.3	1		02/06/09 23:24	106-43-4	
Dibromochloromethane	ND ug/kg		5.3	1		02/06/09 23:24	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/kg		5.3	1		02/06/09 23:24	106-93-4	
Dibromomethane	ND ug/kg		5.3	1		02/06/09 23:24	74-95-3	
1,2-Dichlorobenzene	ND ug/kg		5.3	1		02/06/09 23:24	95-50-1	
1,3-Dichlorobenzene	ND ug/kg		5.3	1		02/06/09 23:24	541-73-1	
1,4-Dichlorobenzene	ND ug/kg		5.3	1		02/06/09 23:24	106-46-7	
trans-1,4-Dichloro-2-butene	ND ug/kg		106	1		02/06/09 23:24	110-57-6	
Dichlorodifluoromethane	ND ug/kg		5.3	1		02/06/09 23:24	75-71-8	
1,1-Dichloroethane	ND ug/kg		5.3	1		02/06/09 23:24	75-34-3	
1,2-Dichloroethane	ND ug/kg		5.3	1		02/06/09 23:24	107-06-2	
1,1-Dichloroethene	ND ug/kg		5.3	1		02/06/09 23:24	75-35-4	
cis-1,2-Dichloroethene	ND ug/kg		5.3	1		02/06/09 23:24	156-59-2	
trans-1,2-Dichloroethene	ND ug/kg		5.3	1		02/06/09 23:24	156-60-5	
1,2-Dichloropropane	ND ug/kg		5.3	1		02/06/09 23:24	78-87-5	
1,3-Dichloropropane	ND ug/kg		5.3	1		02/06/09 23:24	142-28-9	
2,2-Dichloropropane	ND ug/kg		5.3	1		02/06/09 23:24	594-20-7	
1,1-Dichloropropene	ND ug/kg		5.3	1		02/06/09 23:24	563-58-6	
cis-1,3-Dichloropropene	ND ug/kg		5.3	1		02/06/09 23:24	10061-01-5	
trans-1,3-Dichloropropene	ND ug/kg		5.3	1		02/06/09 23:24	10061-02-6	
Ethylbenzene	ND ug/kg		5.3	1		02/06/09 23:24	100-41-4	
Ethyl methacrylate	ND ug/kg		10.6	1		02/06/09 23:24	97-63-2	
Hexachloro-1,3-butadiene	ND ug/kg		5.3	1		02/06/09 23:24	87-68-3	
n-Hexane	ND ug/kg		5.3	1		02/06/09 23:24	110-54-3	
2-Hexanone	ND ug/kg		106	1		02/06/09 23:24	591-78-6	
Iodomethane	ND ug/kg		106	1		02/06/09 23:24	74-88-4	

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ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5023037

Sample: SB-6 (5-6) Lab ID: 5023037004 Collected: 02/05/09 16:30 Received: 02/06/09 11:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND	ug/kg	5.3	1		02/06/09 23:24	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.3	1		02/06/09 23:24	99-87-6	
Methylene chloride	ND	ug/kg	21.3	1		02/06/09 23:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	26.6	1		02/06/09 23:24	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.3	1		02/06/09 23:24	1634-04-4	
Naphthalene	ND	ug/kg	5.3	1		02/06/09 23:24	91-20-3	
n-Propylbenzene	ND	ug/kg	5.3	1		02/06/09 23:24	103-65-1	
Styrene	ND	ug/kg	5.3	1		02/06/09 23:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.3	1		02/06/09 23:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.3	1		02/06/09 23:24	79-34-5	
Tetrachloroethene	5.9	ug/kg	5.3	1		02/06/09 23:24	127-18-4	
Toluene	ND	ug/kg	5.3	1		02/06/09 23:24	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.3	1		02/06/09 23:24	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.3	1		02/06/09 23:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.3	1		02/06/09 23:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.3	1		02/06/09 23:24	79-00-5	
Trichloroethene	ND	ug/kg	5.3	1		02/06/09 23:24	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.3	1		02/06/09 23:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.3	1		02/06/09 23:24	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.3	1		02/06/09 23:24	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.3	1		02/06/09 23:24	108-67-8	
Vinyl acetate	ND	ug/kg	106	1		02/06/09 23:24	108-05-4	
Vinyl chloride	ND	ug/kg	5.3	1		02/06/09 23:24	75-01-4	
Xylene (Total)	ND	ug/kg	10.6	1		02/06/09 23:24	1330-20-7	
Dibromofluoromethane (S)	121	%	80-124	1		02/06/09 23:24	1868-53-7	
Toluene-d8 (S)	90	%	58-145	1		02/06/09 23:24	2037-26-5	
4-Bromofluorobenzene (S)	95	%	61-131	1		02/06/09 23:24	460-00-4	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	6.1	%	0.10	1		02/06/09 15:47		

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5023037

Sample: SB-6 (7-8) Lab ID: 5023037005 Collected: 02/05/09 16:55 Received: 02/06/09 11:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	104	1		02/07/09 00:01	67-64-1	
Acrolein	ND	ug/kg	104	1		02/07/09 00:01	107-02-8	
Acrylonitrile	ND	ug/kg	104	1		02/07/09 00:01	107-13-1	
Benzene	ND	ug/kg	5.2	1		02/07/09 00:01	71-43-2	
Bromobenzene	ND	ug/kg	5.2	1		02/07/09 00:01	108-86-1	
Bromochloromethane	ND	ug/kg	5.2	1		02/07/09 00:01	74-97-5	
Bromodichloromethane	ND	ug/kg	5.2	1		02/07/09 00:01	75-27-4	
Bromoform	ND	ug/kg	5.2	1		02/07/09 00:01	75-25-2	
Bromomethane	ND	ug/kg	5.2	1		02/07/09 00:01	74-83-9	
2-Butanone (MEK)	ND	ug/kg	26.1	1		02/07/09 00:01	78-93-3	
n-Butylbenzene	ND	ug/kg	5.2	1		02/07/09 00:01	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.2	1		02/07/09 00:01	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.2	1		02/07/09 00:01	98-06-6	
Carbon disulfide	ND	ug/kg	10.4	1		02/07/09 00:01	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.2	1		02/07/09 00:01	56-23-5	
Chlorobenzene	ND	ug/kg	5.2	1		02/07/09 00:01	108-90-7	
Chloroethane	ND	ug/kg	5.2	1		02/07/09 00:01	75-00-3	
Chloroform	ND	ug/kg	5.2	1		02/07/09 00:01	67-66-3	
Chloromethane	ND	ug/kg	5.2	1		02/07/09 00:01	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.2	1		02/07/09 00:01	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.2	1		02/07/09 00:01	106-43-4	
Dibromochloromethane	ND	ug/kg	5.2	1		02/07/09 00:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.2	1		02/07/09 00:01	106-93-4	
Dibromomethane	ND	ug/kg	5.2	1		02/07/09 00:01	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.2	1		02/07/09 00:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.2	1		02/07/09 00:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.2	1		02/07/09 00:01	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	104	1		02/07/09 00:01	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.2	1		02/07/09 00:01	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.2	1		02/07/09 00:01	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.2	1		02/07/09 00:01	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.2	1		02/07/09 00:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.2	1		02/07/09 00:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.2	1		02/07/09 00:01	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.2	1		02/07/09 00:01	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.2	1		02/07/09 00:01	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.2	1		02/07/09 00:01	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.2	1		02/07/09 00:01	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.2	1		02/07/09 00:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.2	1		02/07/09 00:01	10061-02-6	
Ethylbenzene	ND	ug/kg	5.2	1		02/07/09 00:01	100-41-4	
Ethyl methacrylate	ND	ug/kg	10.4	1		02/07/09 00:01	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.2	1		02/07/09 00:01	87-68-3	
n-Hexane	ND	ug/kg	5.2	1		02/07/09 00:01	110-54-3	
2-Hexanone	ND	ug/kg	104	1		02/07/09 00:01	591-78-6	
Iodomethane	ND	ug/kg	104	1		02/07/09 00:01	74-88-4	

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ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5023037

Sample: SB-6 (7-8) Lab ID: 5023037005 Collected: 02/05/09 16:55 Received: 02/06/09 11:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND	ug/kg	5.2	1		02/07/09 00:01	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.2	1		02/07/09 00:01	99-87-6	
Methylene chloride	ND	ug/kg	20.9	1		02/07/09 00:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	26.1	1		02/07/09 00:01	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.2	1		02/07/09 00:01	1634-04-4	
Naphthalene	ND	ug/kg	5.2	1		02/07/09 00:01	91-20-3	
n-Propylbenzene	ND	ug/kg	5.2	1		02/07/09 00:01	103-65-1	
Styrene	ND	ug/kg	5.2	1		02/07/09 00:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.2	1		02/07/09 00:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.2	1		02/07/09 00:01	79-34-5	
Tetrachloroethene	6.5	ug/kg	5.2	1		02/07/09 00:01	127-18-4	
Toluene	ND	ug/kg	5.2	1		02/07/09 00:01	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.2	1		02/07/09 00:01	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.2	1		02/07/09 00:01	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.2	1		02/07/09 00:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.2	1		02/07/09 00:01	79-00-5	
Trichloroethene	ND	ug/kg	5.2	1		02/07/09 00:01	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.2	1		02/07/09 00:01	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.2	1		02/07/09 00:01	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.2	1		02/07/09 00:01	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.2	1		02/07/09 00:01	108-67-8	
Vinyl acetate	ND	ug/kg	104	1		02/07/09 00:01	108-05-4	
Vinyl chloride	ND	ug/kg	5.2	1		02/07/09 00:01	75-01-4	
Xylene (Total)	ND	ug/kg	10.4	1		02/07/09 00:01	1330-20-7	
Dibromofluoromethane (S)	115 %		80-124	1		02/07/09 00:01	1868-53-7	
Toluene-d8 (S)	92 %		58-145	1		02/07/09 00:01	2037-26-5	
4-Bromofluorobenzene (S)	93 %		61-131	1		02/07/09 00:01	460-00-4	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	4.2 %	0.10	1	02/06/09 15:48

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5023037

Sample: SB-6 (14-15) Lab ID: 5023037006 Collected: 02/05/09 16:57 Received: 02/06/09 11:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	118	1		02/09/09 14:15	67-64-1	
Acrolein	ND	ug/kg	118	1		02/09/09 14:15	107-02-8	
Acrylonitrile	ND	ug/kg	118	1		02/09/09 14:15	107-13-1	
Benzene	ND	ug/kg	5.9	1		02/09/09 14:15	71-43-2	
Bromobenzene	ND	ug/kg	5.9	1		02/09/09 14:15	108-86-1	
Bromochloromethane	ND	ug/kg	5.9	1		02/09/09 14:15	74-97-5	
Bromodichloromethane	ND	ug/kg	5.9	1		02/09/09 14:15	75-27-4	
Bromoform	ND	ug/kg	5.9	1		02/09/09 14:15	75-25-2	
Bromomethane	ND	ug/kg	5.9	1		02/09/09 14:15	74-83-9	
2-Butanone (MEK)	ND	ug/kg	29.5	1		02/09/09 14:15	78-93-3	
n-Butylbenzene	ND	ug/kg	5.9	1		02/09/09 14:15	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.9	1		02/09/09 14:15	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.9	1		02/09/09 14:15	98-06-6	
Carbon disulfide	ND	ug/kg	11.8	1		02/09/09 14:15	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.9	1		02/09/09 14:15	56-23-5	
Chlorobenzene	ND	ug/kg	5.9	1		02/09/09 14:15	108-90-7	
Chloroethane	ND	ug/kg	5.9	1		02/09/09 14:15	75-00-3	
Chloroform	ND	ug/kg	5.9	1		02/09/09 14:15	67-66-3	
Chloromethane	ND	ug/kg	5.9	1		02/09/09 14:15	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.9	1		02/09/09 14:15	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.9	1		02/09/09 14:15	106-43-4	
Dibromochloromethane	ND	ug/kg	5.9	1		02/09/09 14:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.9	1		02/09/09 14:15	106-93-4	
Dibromomethane	ND	ug/kg	5.9	1		02/09/09 14:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.9	1		02/09/09 14:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.9	1		02/09/09 14:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.9	1		02/09/09 14:15	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	118	1		02/09/09 14:15	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.9	1		02/09/09 14:15	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.9	1		02/09/09 14:15	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.9	1		02/09/09 14:15	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.9	1		02/09/09 14:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.9	1		02/09/09 14:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.9	1		02/09/09 14:15	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.9	1		02/09/09 14:15	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.9	1		02/09/09 14:15	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.9	1		02/09/09 14:15	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.9	1		02/09/09 14:15	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.9	1		02/09/09 14:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.9	1		02/09/09 14:15	10061-02-6	
Ethylbenzene	ND	ug/kg	5.9	1		02/09/09 14:15	100-41-4	
Ethyl methacrylate	ND	ug/kg	11.8	1		02/09/09 14:15	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.9	1		02/09/09 14:15	87-68-3	
n-Hexane	ND	ug/kg	5.9	1		02/09/09 14:15	110-54-3	
2-Hexanone	ND	ug/kg	118	1		02/09/09 14:15	591-78-6	
Iodomethane	ND	ug/kg	118	1		02/09/09 14:15	74-88-4	

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ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5023037

Sample: SB-6 (14-15) Lab ID: 5023037006 Collected: 02/05/09 16:57 Received: 02/06/09 11:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND	ug/kg	5.9	1		02/09/09 14:15	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.9	1		02/09/09 14:15	99-87-6	
Methylene chloride	ND	ug/kg	23.6	1		02/09/09 14:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	29.5	1		02/09/09 14:15	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.9	1		02/09/09 14:15	1634-04-4	
Naphthalene	ND	ug/kg	5.9	1		02/09/09 14:15	91-20-3	
n-Propylbenzene	ND	ug/kg	5.9	1		02/09/09 14:15	103-65-1	
Styrene	ND	ug/kg	5.9	1		02/09/09 14:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.9	1		02/09/09 14:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.9	1		02/09/09 14:15	79-34-5	
Tetrachloroethene	26.4	ug/kg	5.9	1		02/09/09 14:15	127-18-4	
Toluene	ND	ug/kg	5.9	1		02/09/09 14:15	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.9	1		02/09/09 14:15	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.9	1		02/09/09 14:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.9	1		02/09/09 14:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.9	1		02/09/09 14:15	79-00-5	
Trichloroethene	ND	ug/kg	5.9	1		02/09/09 14:15	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.9	1		02/09/09 14:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.9	1		02/09/09 14:15	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.9	1		02/09/09 14:15	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.9	1		02/09/09 14:15	108-67-8	
Vinyl acetate	ND	ug/kg	118	1		02/09/09 14:15	108-05-4	
Vinyl chloride	ND	ug/kg	5.9	1		02/09/09 14:15	75-01-4	
Xylene (Total)	ND	ug/kg	11.8	1		02/09/09 14:15	1330-20-7	
Dibromofluoromethane (S)	98 %		80-124	1		02/09/09 14:15	1868-53-7	
Toluene-d8 (S)	97 %		58-145	1		02/09/09 14:15	2037-26-5	
4-Bromofluorobenzene (S)	94 %		61-131	1		02/09/09 14:15	460-00-4	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	15.2 %	0.10	1	02/06/09 15:48

QUALITY CONTROL DATA

Project: Michigan Plaza

Pace Project No.: 5023037

QC Batch: PMST/3325 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 5023037001, 5023037002, 5023037003, 5023037004, 5023037005, 5023037006

SAMPLE DUPLICATE: 260926

Parameter	Units	5022980001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	26.3	20.7	24	5	R2

SAMPLE DUPLICATE: 260927

Parameter	Units	5022966001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	10.1	9.6	5	5	

QUALITY CONTROL DATA

Project: Michigan Plaza

Pace Project No.: 5023037

QC Batch: MSV/14277

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV 5030 Low

Associated Lab Samples: 5023037001, 5023037002, 5023037003, 5023037004, 5023037005

METHOD BLANK: 261298

Matrix: Solid

Associated Lab Samples: 5023037001, 5023037002, 5023037003, 5023037004, 5023037005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	02/06/09 14:17	
1,1,1-Trichloroethane	ug/kg	ND	5.0	02/06/09 14:17	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	02/06/09 14:17	
1,1,2-Trichloroethane	ug/kg	ND	5.0	02/06/09 14:17	
1,1-Dichloroethane	ug/kg	ND	5.0	02/06/09 14:17	
1,1-Dichloroethene	ug/kg	ND	5.0	02/06/09 14:17	
1,1-Dichloropropene	ug/kg	ND	5.0	02/06/09 14:17	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	02/06/09 14:17	
1,2,3-Trichloropropane	ug/kg	ND	5.0	02/06/09 14:17	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	02/06/09 14:17	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	02/06/09 14:17	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	02/06/09 14:17	
1,2-Dichlorobenzene	ug/kg	ND	5.0	02/06/09 14:17	
1,2-Dichloroethane	ug/kg	ND	5.0	02/06/09 14:17	
1,2-Dichloropropane	ug/kg	ND	5.0	02/06/09 14:17	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	02/06/09 14:17	
1,3-Dichlorobenzene	ug/kg	ND	5.0	02/06/09 14:17	
1,3-Dichloropropane	ug/kg	ND	5.0	02/06/09 14:17	
1,4-Dichlorobenzene	ug/kg	ND	5.0	02/06/09 14:17	
2,2-Dichloropropane	ug/kg	ND	5.0	02/06/09 14:17	
2-Butanone (MEK)	ug/kg	ND	25.0	02/06/09 14:17	
2-Chlorotoluene	ug/kg	ND	5.0	02/06/09 14:17	
2-Hexanone	ug/kg	ND	100	02/06/09 14:17	
4-Chlorotoluene	ug/kg	ND	5.0	02/06/09 14:17	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	02/06/09 14:17	
Acetone	ug/kg	ND	100	02/06/09 14:17	
Acrolein	ug/kg	ND	100	02/06/09 14:17	
Acrylonitrile	ug/kg	ND	100	02/06/09 14:17	
Benzene	ug/kg	ND	5.0	02/06/09 14:17	
Bromobenzene	ug/kg	ND	5.0	02/06/09 14:17	
Bromochloromethane	ug/kg	ND	5.0	02/06/09 14:17	
Bromodichloromethane	ug/kg	ND	5.0	02/06/09 14:17	
Bromoform	ug/kg	ND	5.0	02/06/09 14:17	
Bromomethane	ug/kg	ND	5.0	02/06/09 14:17	
Carbon disulfide	ug/kg	ND	10.0	02/06/09 14:17	
Carbon tetrachloride	ug/kg	ND	5.0	02/06/09 14:17	
Chlorobenzene	ug/kg	ND	5.0	02/06/09 14:17	
Chloroethane	ug/kg	ND	5.0	02/06/09 14:17	
Chloroform	ug/kg	ND	5.0	02/06/09 14:17	
Chloromethane	ug/kg	ND	5.0	02/06/09 14:17	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	02/06/09 14:17	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	02/06/09 14:17	
Dibromochloromethane	ug/kg	ND	5.0	02/06/09 14:17	

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QUALITY CONTROL DATA

Project: Michigan Plaza

Pace Project No.: 5023037

METHOD BLANK: 261298

Matrix: Solid

Associated Lab Samples: 5023037001, 5023037002, 5023037003, 5023037004, 5023037005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	5.0	02/06/09 14:17	
Dichlorodifluoromethane	ug/kg	ND	5.0	02/06/09 14:17	
Ethyl methacrylate	ug/kg	ND	10.0	02/06/09 14:17	
Ethylbenzene	ug/kg	ND	5.0	02/06/09 14:17	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	02/06/09 14:17	
Iodomethane	ug/kg	ND	100	02/06/09 14:17	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	02/06/09 14:17	
Methyl-tert-butyl ether	ug/kg	ND	5.0	02/06/09 14:17	
Methylene chloride	ug/kg	ND	20.0	02/06/09 14:17	
n-Butylbenzene	ug/kg	ND	5.0	02/06/09 14:17	
n-Hexane	ug/kg	ND	5.0	02/06/09 14:17	
n-Propylbenzene	ug/kg	ND	5.0	02/06/09 14:17	
Naphthalene	ug/kg	ND	5.0	02/06/09 14:17	
p-Isopropyltoluene	ug/kg	ND	5.0	02/06/09 14:17	
sec-Butylbenzene	ug/kg	ND	5.0	02/06/09 14:17	
Styrene	ug/kg	ND	5.0	02/06/09 14:17	
tert-Butylbenzene	ug/kg	ND	5.0	02/06/09 14:17	
Tetrachloroethene	ug/kg	ND	5.0	02/06/09 14:17	
Toluene	ug/kg	ND	5.0	02/06/09 14:17	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	02/06/09 14:17	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	02/06/09 14:17	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	02/06/09 14:17	
Trichloroethene	ug/kg	ND	5.0	02/06/09 14:17	
Trichlorofluoromethane	ug/kg	ND	5.0	02/06/09 14:17	
Vinyl acetate	ug/kg	ND	100	02/06/09 14:17	
Vinyl chloride	ug/kg	ND	5.0	02/06/09 14:17	
Xylene (Total)	ug/kg	ND	10.0	02/06/09 14:17	
4-Bromofluorobenzene (S)	%	94	61-131	02/06/09 14:17	
Dibromofluoromethane (S)	%	125	80-124	02/06/09 14:17	S3
Toluene-d8 (S)	%	92	58-145	02/06/09 14:17	

LABORATORY CONTROL SAMPLE: 261299

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	48.7	97	65-124	
1,1,1-Trichloroethane	ug/kg	50	50.7	101	61-135	
1,1,2,2-Tetrachloroethane	ug/kg	50	51.8	104	66-124	
1,1,2-Trichloroethane	ug/kg	50	49.0	98	74-127	
1,1-Dichloroethane	ug/kg	50	50.6	101	62-132	
1,1-Dichloroethene	ug/kg	50	55.5	111	61-123	
1,1-Dichloropropene	ug/kg	50	52.2	104	74-128	
1,2,3-Trichlorobenzene	ug/kg	50	49.1	98	60-125	
1,2,3-Trichloropropane	ug/kg	50	45.2	90	61-120	
1,2,4-Trichlorobenzene	ug/kg	50	47.5	95	58-126	
1,2,4-Trimethylbenzene	ug/kg	50	50.4	101	72-120	

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QUALITY CONTROL DATA

Project: Michigan Plaza

Pace Project No.: 5023037

LABORATORY CONTROL SAMPLE: 261299

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/kg	50	48.8	98	74-119	
1,2-Dichlorobenzene	ug/kg	50	50.8	102	75-117	
1,2-Dichloroethane	ug/kg	50	52.9	106	62-135	
1,2-Dichloropropane	ug/kg	50	49.6	99	74-124	
1,3,5-Trimethylbenzene	ug/kg	50	47.5	95	73-122	
1,3-Dichlorobenzene	ug/kg	50	50.4	101	73-120	
1,3-Dichloropropane	ug/kg	50	48.2	96	71-122	
1,4-Dichlorobenzene	ug/kg	50	50.2	100	72-118	
2,2-Dichloropropane	ug/kg	50	43.3	87	53-136	
2-Butanone (MEK)	ug/kg	250	420	168	33-190	
2-Chlorotoluene	ug/kg	50	52.1	104	72-122	
2-Hexanone	ug/kg	250	377	151	44-168	
4-Chlorotoluene	ug/kg	50	44.7	89	72-120	
4-Methyl-2-pentanone (MIBK)	ug/kg	250	246	98	58-126	
Acetone	ug/kg	250	635	254	30-190	L0
Acrolein	ug/kg	1000	1970	197	30-190	L0
Acrylonitrile	ug/kg	1000	1070	107	65-129	
Benzene	ug/kg	50	53.1	106	76-123	
Bromobenzene	ug/kg	50	56.8	114	74-116	
Bromochloromethane	ug/kg	50	54.2	108	56-143	
Bromodichloromethane	ug/kg	50	52.4	105	67-123	
Bromoform	ug/kg	50	47.3	95	58-117	
Bromomethane	ug/kg	50	48.7	97	47-147	
Carbon disulfide	ug/kg	100	135	135	56-141	
Carbon tetrachloride	ug/kg	50	50.9	102	54-136	
Chlorobenzene	ug/kg	50	50.5	101	75-115	
Chloroethane	ug/kg	50	59.0	118	57-147	
Chloroform	ug/kg	50	52.5	105	74-123	
Chloromethane	ug/kg	50	53.4	107	31-155	
cis-1,2-Dichloroethene	ug/kg	50	53.6	107	76-119	
cis-1,3-Dichloropropene	ug/kg	50	49.0	98	56-110	
Dibromochloromethane	ug/kg	50	49.3	99	63-122	
Dibromomethane	ug/kg	50	55.5	111	70-127	
Dichlorodifluoromethane	ug/kg	50	53.0	106	30-170	
Ethyl methacrylate	ug/kg	50	46.4	93	58-126	
Ethylbenzene	ug/kg	50	48.7	97	78-121	
Hexachloro-1,3-butadiene	ug/kg	50	43.2	86	65-128	
Iodomethane	ug/kg	100	96.5J	96	38-173	
Isopropylbenzene (Cumene)	ug/kg	50	50.0	100	75-128	
Methyl-tert-butyl ether	ug/kg	100	85.8	86	59-142	
Methylene chloride	ug/kg	50	57.1	114	30-170	
n-Butylbenzene	ug/kg	50	45.8	92	70-123	
n-Hexane	ug/kg	50	57.8	116	76-143	
n-Propylbenzene	ug/kg	50	48.6	97	70-126	
Naphthalene	ug/kg	50	45.1	90	60-128	
p-Isopropyltoluene	ug/kg	50	43.9	88	65-125	
sec-Butylbenzene	ug/kg	50	48.1	96	72-125	
Styrene	ug/kg	50	47.3	95	75-118	

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QUALITY CONTROL DATA

Project: Michigan Plaza

Pace Project No.: 5023037

LABORATORY CONTROL SAMPLE: 261299

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/kg	50	43.9	88	61-114	
Tetrachloroethene	ug/kg	50	38.3	77	63-117	
Toluene	ug/kg	50	50.5	101	72-123	
trans-1,2-Dichloroethene	ug/kg	50	55.4	111	70-122	
trans-1,3-Dichloropropene	ug/kg	50	42.0	84	55-107	
trans-1,4-Dichloro-2-butene	ug/kg	50	38.1J	76	49-127	
Trichloroethene	ug/kg	50	53.4	107	74-121	
Trichlorofluoromethane	ug/kg	50	52.1	104	55-156	
Vinyl acetate	ug/kg	200	170	85	46-127	
Vinyl chloride	ug/kg	50	50.5	101	50-146	
Xylene (Total)	ug/kg	150	142	95	77-120	
4-Bromofluorobenzene (S)	%			100	61-131	
Dibromofluoromethane (S)	%			96	80-124	
Toluene-d8 (S)	%			98	58-145	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 261300

261301

Parameter	Units	5022984003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/kg	ND	63.1	63.1	40.7	44.2	64	70	20-133	8	20	
1,1,1-Trichloroethane	ug/kg	ND	63.1	63.1	43.4	51.1	69	81	27-142	16	20	
1,1,2,2-Tetrachloroethane	ug/kg	ND	63.1	63.1	43.0	43.1	68	68	20-159	0	20	
1,1,2-Trichloroethane	ug/kg	ND	63.1	63.1	45.9	46.4	73	74	20-155	1	20	
1,1-Dichloroethane	ug/kg	ND	63.1	63.1	53.0	58.0	84	92	31-141	9	20	
1,1-Dichloroethene	ug/kg	ND	63.1	63.1	59.3	65.4	94	104	23-132	10	20	
1,1-Dichloropropene	ug/kg	ND	63.1	63.1	54.0	58.7	86	93	20-146	8	20	
1,2,3-Trichlorobenzene	ug/kg	ND	63.1	63.1	23.9	26.5	38	42	20-140	10	20	
1,2,3-Trichloropropane	ug/kg	ND	63.1	63.1	36.8	36.5	58	58	20-153	1	20	
1,2,4-Trichlorobenzene	ug/kg	ND	63.1	63.1	24.5	26.8	39	42	20-120	9	20	
1,2,4-Trimethylbenzene	ug/kg	ND	63.1	63.1	42.7	46.3	68	73	20-156	8	20	
1,2-Dibromoethane (EDB)	ug/kg	ND	63.1	63.1	42.4	44.1	67	70	20-143	4	20	
1,2-Dichlorobenzene	ug/kg	ND	63.1	63.1	39.4	41.6	62	66	20-133	5	20	
1,2-Dichloroethane	ug/kg	ND	63.1	63.1	51.4	54.0	81	86	30-143	5	20	
1,2-Dichloropropane	ug/kg	ND	63.1	63.1	50.3	54.0	80	86	30-140	7	20	
1,3,5-Trimethylbenzene	ug/kg	ND	63.1	63.1	40.5	44.4	64	70	20-143	9	20	
1,3-Dichlorobenzene	ug/kg	ND	63.1	63.1	40.5	43.9	64	70	20-136	8	20	
1,3-Dichloropropane	ug/kg	ND	63.1	63.1	43.7	44.5	69	70	30-144	2	20	
1,4-Dichlorobenzene	ug/kg	ND	63.1	63.1	39.6	41.4	63	66	30-135	4	20	
2,2-Dichloropropane	ug/kg	ND	63.1	63.1	33.0	38.7	52	61	30-143	16	20	
2-Butanone (MEK)	ug/kg	ND	315	315	264	259	84	82	30-190	2	20	
2-Chlorotoluene	ug/kg	ND	63.1	63.1	44.8	48.2	71	76	30-170	7	20	
2-Hexanone	ug/kg	ND	315	315	216	216	68	68	30-170	0	20	
4-Chlorotoluene	ug/kg	ND	63.1	63.1	38.1	40.7	60	65	30-143	7	20	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	315	315	205	206	65	65	30-144	1	20	
Acetone	ug/kg	ND	315	315	319	306	96	92	30-180	4	20	
Acrolein	ug/kg	ND	1260	1260	1850	1820	146	144	30-180	2	20	
Acrylonitrile	ug/kg	ND	1260	1260	912	914	72	72	30-141	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Michigan Plaza

Pace Project No.: 5023037

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 261300											
261301											
Parameter	Units	5022984003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Benzene	ug/kg	ND	63.1	63.1	53.5	57.0	85	90	50-135	6	20
Bromobenzene	ug/kg	ND	63.1	63.1	48.6	51.7	77	82	30-125	6	20
Bromochloromethane	ug/kg	ND	63.1	63.1	54.0	56.8	86	90	30-159	5	20
Bromodichloromethane	ug/kg	ND	63.1	63.1	48.2	53.5	76	85	30-141	10	20
Bromoform	ug/kg	ND	63.1	63.1	35.1	37.5	56	59	30-135	7	20
Bromomethane	ug/kg	ND	63.1	63.1	52.6	59.0	83	93	30-137	11	20
Carbon disulfide	ug/kg	ND	126	126	146	162	116	128	30-156	10	20
Carbon tetrachloride	ug/kg	ND	63.1	63.1	41.6	49.4	66	78	30-130	17	20
Chlorobenzene	ug/kg	ND	63.1	63.1	47.0	50.1	75	79	30-137	6	20
Chloroethane	ug/kg	ND	63.1	63.1	62.4	67.5	99	107	35-143	8	20
Chloroform	ug/kg	ND	63.1	63.1	54.1	59.4	86	94	30-136	9	20
Chloromethane	ug/kg	ND	63.1	63.1	58.7	63.7	93	101	28-134	8	20
cis-1,2-Dichloroethene	ug/kg	ND	63.1	63.1	54.4	58.7	86	93	30-141	8	20
cis-1,3-Dichloropropene	ug/kg	ND	63.1	63.1	38.2	40.3	61	64	30-126	5	20
Dibromochloromethane	ug/kg	ND	63.1	63.1	41.0	43.7	65	69	30-129	6	20
Dibromomethane	ug/kg	ND	63.1	63.1	52.0	54.8	82	87	30-153	5	20
Dichlorodifluoromethane	ug/kg	ND	63.1	63.1	59.5	65.8	94	104	30-150	10	20
Ethyl methacrylate	ug/kg	ND	63.1	63.1	34.7	36.5	55	58	30-170	5	20
Ethylbenzene	ug/kg	ND	63.1	63.1	45.9	48.9	73	78	50-150	6	20
Hexachloro-1,3-butadiene	ug/kg	ND	63.1	63.1	27.0	29.9	43	47	30-138	10	20
Iodomethane	ug/kg	ND	126	126	103J	112J	82	89	30-180		20
Isopropylbenzene (Cumene)	ug/kg	ND	63.1	63.1	42.8	47.7	68	76	50-150	11	20
Methyl-tert-butyl ether	ug/kg	ND	126	126	75.2	79.9	60	63	40-149	6	20
Methylene chloride	ug/kg	ND	63.1	63.1	55.9	58.5	89	93	30-163	4	20
n-Butylbenzene	ug/kg	ND	63.1	63.1	35.8	39.2	57	62	40-152	9	20
n-Hexane	ug/kg	ND	63.1	63.1	48.8	54.7	77	87	40-155	11	20
n-Propylbenzene	ug/kg	ND	63.1	63.1	42.3	46.9	67	74	40-170	10	20
Naphthalene	ug/kg	ND	63.1	63.1	28.2	30.0	45	48	50-128	6	20 M0
p-Isopropyltoluene	ug/kg	ND	63.1	63.1	37.3	41.8	59	66	40-167	11	20
sec-Butylbenzene	ug/kg	ND	63.1	63.1	39.9	45.1	63	72	40-168	12	20
Styrene	ug/kg	ND	63.1	63.1	42.0	44.9	67	71	30-141	7	20
tert-Butylbenzene	ug/kg	ND	63.1	63.1	37.3	41.8	59	66	40-144	11	20
Tetrachloroethene	ug/kg	ND	63.1	63.1	35.6	38.3	56	61	40-155	7	20
Toluene	ug/kg	ND	63.1	63.1	49.0	52.1	78	83	50-149	6	20
trans-1,2-Dichloroethene	ug/kg	ND	63.1	63.1	58.1	64.9	92	103	40-140	11	20
trans-1,3-Dichloropropene	ug/kg	ND	63.1	63.1	29.8	32.3	47	51	40-130	8	20
trans-1,4-Dichloro-2-butene	ug/kg	ND	63.1	63.1	25J	25.8J	40	41	30-150		20
Trichloroethene	ug/kg	ND	63.1	63.1	53.9	58.3	85	92	40-153	8	20
Trichlorofluoromethane	ug/kg	ND	63.1	63.1	58.1	62.4	92	99	43-140	7	20
Vinyl acetate	ug/kg	ND	252	252	28.9J	34.8J	11	14	30-120		20 M0
Vinyl chloride	ug/kg	ND	63.1	63.1	57.4	62.8	91	99	36-137	9	20
Xylene (Total)	ug/kg	ND	189	189	133	145	70	77	50-143	9	20
4-Bromofluorobenzene (S)	%						102	101	61-131		20
Dibromofluoromethane (S)	%						102	101	80-124		20
Toluene-d8 (S)	%						97	96	58-145		20

QUALITY CONTROL DATA

Project: Michigan Plaza

Pace Project No.: 5023037

QC Batch: MSV/14295

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV 5030 Low

Associated Lab Samples: 5023037006

METHOD BLANK: 261735

Matrix: Solid

Associated Lab Samples: 5023037006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	02/09/09 13:01	
1,1,1-Trichloroethane	ug/kg	ND	5.0	02/09/09 13:01	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	02/09/09 13:01	
1,1,2-Trichloroethane	ug/kg	ND	5.0	02/09/09 13:01	
1,1-Dichloroethane	ug/kg	ND	5.0	02/09/09 13:01	
1,1-Dichloroethene	ug/kg	ND	5.0	02/09/09 13:01	
1,1-Dichloropropene	ug/kg	ND	5.0	02/09/09 13:01	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	02/09/09 13:01	
1,2,3-Trichloropropane	ug/kg	ND	5.0	02/09/09 13:01	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	02/09/09 13:01	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	02/09/09 13:01	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	02/09/09 13:01	
1,2-Dichlorobenzene	ug/kg	ND	5.0	02/09/09 13:01	
1,2-Dichloroethane	ug/kg	ND	5.0	02/09/09 13:01	
1,2-Dichloropropane	ug/kg	ND	5.0	02/09/09 13:01	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	02/09/09 13:01	
1,3-Dichlorobenzene	ug/kg	ND	5.0	02/09/09 13:01	
1,3-Dichloropropane	ug/kg	ND	5.0	02/09/09 13:01	
1,4-Dichlorobenzene	ug/kg	ND	5.0	02/09/09 13:01	
2,2-Dichloropropane	ug/kg	ND	5.0	02/09/09 13:01	
2-Butanone (MEK)	ug/kg	ND	25.0	02/09/09 13:01	
2-Chlorotoluene	ug/kg	ND	5.0	02/09/09 13:01	
2-Hexanone	ug/kg	ND	100	02/09/09 13:01	
4-Chlorotoluene	ug/kg	ND	5.0	02/09/09 13:01	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	02/09/09 13:01	
Acetone	ug/kg	ND	100	02/09/09 13:01	
Acrolein	ug/kg	ND	100	02/09/09 13:01	
Acrylonitrile	ug/kg	ND	100	02/09/09 13:01	
Benzene	ug/kg	ND	5.0	02/09/09 13:01	
Bromobenzene	ug/kg	ND	5.0	02/09/09 13:01	
Bromochloromethane	ug/kg	ND	5.0	02/09/09 13:01	
Bromodichloromethane	ug/kg	ND	5.0	02/09/09 13:01	
Bromoform	ug/kg	ND	5.0	02/09/09 13:01	
Bromomethane	ug/kg	ND	5.0	02/09/09 13:01	
Carbon disulfide	ug/kg	ND	10.0	02/09/09 13:01	
Carbon tetrachloride	ug/kg	ND	5.0	02/09/09 13:01	
Chlorobenzene	ug/kg	ND	5.0	02/09/09 13:01	
Chloroethane	ug/kg	ND	5.0	02/09/09 13:01	
Chloroform	ug/kg	ND	5.0	02/09/09 13:01	
Chloromethane	ug/kg	ND	5.0	02/09/09 13:01	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	02/09/09 13:01	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	02/09/09 13:01	
Dibromochloromethane	ug/kg	ND	5.0	02/09/09 13:01	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Michigan Plaza

Pace Project No.: 5023037

METHOD BLANK: 261735

Matrix: Solid

Associated Lab Samples: 5023037006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	5.0	02/09/09 13:01	
Dichlorodifluoromethane	ug/kg	ND	5.0	02/09/09 13:01	
Ethyl methacrylate	ug/kg	ND	10.0	02/09/09 13:01	
Ethylbenzene	ug/kg	ND	5.0	02/09/09 13:01	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	02/09/09 13:01	
Iodomethane	ug/kg	ND	100	02/09/09 13:01	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	02/09/09 13:01	
Methyl-tert-butyl ether	ug/kg	ND	5.0	02/09/09 13:01	
Methylene chloride	ug/kg	ND	20.0	02/09/09 13:01	
n-Butylbenzene	ug/kg	ND	5.0	02/09/09 13:01	
n-Hexane	ug/kg	ND	5.0	02/09/09 13:01	
n-Propylbenzene	ug/kg	ND	5.0	02/09/09 13:01	
Naphthalene	ug/kg	ND	5.0	02/09/09 13:01	
p-Isopropyltoluene	ug/kg	ND	5.0	02/09/09 13:01	
sec-Butylbenzene	ug/kg	ND	5.0	02/09/09 13:01	
Styrene	ug/kg	ND	5.0	02/09/09 13:01	
tert-Butylbenzene	ug/kg	ND	5.0	02/09/09 13:01	
Tetrachloroethene	ug/kg	ND	5.0	02/09/09 13:01	
Toluene	ug/kg	ND	5.0	02/09/09 13:01	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	02/09/09 13:01	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	02/09/09 13:01	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	02/09/09 13:01	
Trichloroethene	ug/kg	ND	5.0	02/09/09 13:01	
Trichlorofluoromethane	ug/kg	ND	5.0	02/09/09 13:01	
Vinyl acetate	ug/kg	ND	100	02/09/09 13:01	
Vinyl chloride	ug/kg	ND	5.0	02/09/09 13:01	
Xylene (Total)	ug/kg	ND	10.0	02/09/09 13:01	
4-Bromofluorobenzene (S)	%	93	61-131	02/09/09 13:01	
Dibromofluoromethane (S)	%	103	80-124	02/09/09 13:01	
Toluene-d8 (S)	%	96	58-145	02/09/09 13:01	

LABORATORY CONTROL SAMPLE: 261736

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	39.5	79	65-124	
1,1,1-Trichloroethane	ug/kg	50	40.6	81	61-135	
1,1,2,2-Tetrachloroethane	ug/kg	50	32.8	66	66-124	
1,1,2-Trichloroethane	ug/kg	50	39.3	79	74-127	
1,1-Dichloroethane	ug/kg	50	37.8	76	62-132	
1,1-Dichloroethene	ug/kg	50	38.9	78	61-123	
1,1-Dichloropropene	ug/kg	50	40.2	80	74-128	
1,2,3-Trichlorobenzene	ug/kg	50	43.4	87	60-125	
1,2,3-Trichloropropane	ug/kg	50	35.1	70	61-120	
1,2,4-Trichlorobenzene	ug/kg	50	41.9	84	58-126	
1,2,4-Trimethylbenzene	ug/kg	50	40.7	81	72-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Michigan Plaza

Pace Project No.: 5023037

LABORATORY CONTROL SAMPLE: 261736

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/kg	50	41.7	83	74-119	
1,2-Dichlorobenzene	ug/kg	50	39.6	79	75-117	
1,2-Dichloroethane	ug/kg	50	39.8	80	62-135	
1,2-Dichloropropane	ug/kg	50	40.0	80	74-124	
1,3,5-Trimethylbenzene	ug/kg	50	40.2	80	73-122	
1,3-Dichlorobenzene	ug/kg	50	40.5	81	73-120	
1,3-Dichloropropane	ug/kg	50	38.2	76	71-122	
1,4-Dichlorobenzene	ug/kg	50	40.4	81	72-118	
2,2-Dichloropropane	ug/kg	50	39.6	79	53-136	
2-Butanone (MEK)	ug/kg	250	304	122	33-190	
2-Chlorotoluene	ug/kg	50	39.8	80	72-122	
2-Hexanone	ug/kg	250	300	120	44-168	
4-Chlorotoluene	ug/kg	50	38.3	77	72-120	
4-Methyl-2-pentanone (MIBK)	ug/kg	250	190	76	58-126	
Acetone	ug/kg	250	354	142	30-190	
Acrolein	ug/kg	1000	1550	155	30-190	
Acrylonitrile	ug/kg	1000	633	63	65-129 L0	
Benzene	ug/kg	50	40.9	82	76-123	
Bromobenzene	ug/kg	50	38.8	78	74-116	
Bromochloromethane	ug/kg	50	39.6	79	56-143	
Bromodichloromethane	ug/kg	50	40.4	81	67-123	
Bromoform	ug/kg	50	36.5	73	58-117	
Bromomethane	ug/kg	50	39.2	78	47-147	
Carbon disulfide	ug/kg	100	89.9	90	56-141	
Carbon tetrachloride	ug/kg	50	39.7	79	54-136	
Chlorobenzene	ug/kg	50	39.0	78	75-115	
Chloroethane	ug/kg	50	45.0	90	57-147	
Chloroform	ug/kg	50	39.7	79	74-123	
Chloromethane	ug/kg	50	32.8	66	31-155	
cis-1,2-Dichloroethene	ug/kg	50	40.8	82	76-119	
cis-1,3-Dichloropropene	ug/kg	50	39.3	79	56-110	
Dibromochloromethane	ug/kg	50	42.5	85	63-122	
Dibromomethane	ug/kg	50	39.6	79	70-127	
Dichlorodifluoromethane	ug/kg	50	22.2	44	30-170	
Ethyl methacrylate	ug/kg	50	34.4	69	58-126	
Ethylbenzene	ug/kg	50	41.5	83	78-121	
Hexachloro-1,3-butadiene	ug/kg	50	42.0	84	65-128	
Iodomethane	ug/kg	100	78.8J	79	38-173	
Isopropylbenzene (Cumene)	ug/kg	50	42.6	85	75-128	
Methyl-tert-butyl ether	ug/kg	100	75.9	76	59-142	
Methylene chloride	ug/kg	50	38.7	77	30-170	
n-Butylbenzene	ug/kg	50	42.3	85	70-123	
n-Hexane	ug/kg	50	43.2	86	76-143	
n-Propylbenzene	ug/kg	50	40.8	82	70-126	
Naphthalene	ug/kg	50	37.9	76	60-128	
p-Isopropyltoluene	ug/kg	50	42.0	84	65-125	
sec-Butylbenzene	ug/kg	50	42.3	85	72-125	
Styrene	ug/kg	50	40.4	81	75-118	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Michigan Plaza

Pace Project No.: 5023037

LABORATORY CONTROL SAMPLE: 261736

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/kg	50	39.3	79	61-114	
Tetrachloroethene	ug/kg	50	34.3	69	63-117	
Toluene	ug/kg	50	39.1	78	72-123	
trans-1,2-Dichloroethene	ug/kg	50	40.6	81	70-122	
trans-1,3-Dichloropropene	ug/kg	50	34.3	69	55-107	
trans-1,4-Dichloro-2-butene	ug/kg	50	32.2J	64	49-127	
Trichloroethene	ug/kg	50	40.6	81	74-121	
Trichlorofluoromethane	ug/kg	50	48.3	97	55-156	
Vinyl acetate	ug/kg	200	124	62	46-127	
Vinyl chloride	ug/kg	50	39.0	78	50-146	
Xylene (Total)	ug/kg	150	122	82	77-120	
4-Bromofluorobenzene (S)	%			99	61-131	
Dibromofluoromethane (S)	%			100	80-124	
Toluene-d8 (S)	%			96	58-145	

QUALIFIERS

Project: Michigan Plaza

Pace Project No.: 5023037

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.

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

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

ANALYTE QUALIFIERS

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

M0 Matrix spike recovery was outside laboratory control limits.

R2 RPD value was outside control limits due to matrix interference

S3 Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples.
Results unaffected by high bias.

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information: Company: <u>Murphy & Associates</u> Address: <u>116 S. Oakview Ave</u> Email To: <u>Jodds, JN 46719</u> Phone: <u>817-630-9065</u> Requested Due Date/TAT: <u>3 day</u>		Section B Required Project Information: Report To: <u>Leena Lothe</u> Copy To: Purchase Order No.: Project Name: <u>March Plaza</u> Project Number: <u>M01046</u>		Section C Invoice Information: Attention: <u>Mark Tebbe</u> Company Name: <u>Murphy</u> Address: Pace Quote Reference: Pace Project Manager: Pace Profile #:	
Regulatory Agency: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER		Site Location: STATE: <u>IN</u>		Pace Project No.: <u>1214384</u>	

ITEM #	Section D Required Client Information	Matrix Codes MATRIX I CODE Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Tissue TS Other OT	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test ↑ Y/N	Requested Analysis Filtered (Y/N)												Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
					COMPOSITE START	COMPOSITE END/GRAB	DATE	TIME			DATE	TIME	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other															
1	SB-5 (3-4)		SL	G				2/5/09	4:58p		1																							001	
2	SB-5 (9-10)								5:00p		1																							002	
3	SB-5 (15-16)								5:02p		1																							003	
4	SB-6 (5-6)								4:50p		1																							004	
5	SB-6 (7-8)								4:55p		1																							005	
6	SB-6 (14-15)								4:57p		1																							006	
7																																			
8																																			
9																																			
10																																			
11																																			
12																																			

ADDITIONAL COMMENTS: Please call Leena w/ results on wed # 442-1772 or 507-8431		RELINQUISHED BY / AFFILIATION: [Signature] DATE: 2/11/09 TIME: 11:30a		ACCEPTED BY / AFFILIATION: [Signature] DATE: 2/16/09 TIME: 11:30a-0.8		SAMPLE CONDITIONS: Received on: [] Custody Sealed Cooler: [] Samples Intact: []	
SAMPLER NAME AND SIGNATURE: PRINT Name of SAMPLER: [] SIGNATURE of SAMPLER: [Signature] DATE Signed (MM/DD/YY): 2/16/09		Temp in °C: []					



Sample Condition Upon Receipt

Client Name: Mundell Project # 5023037

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

Tracking #: _____

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

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

Thermometer Used 023456

Type of Ice: Wet Blue None

☐ Samples on ice, cooling process has begun

Cooler Temperature 0.8°C

Biological Tissue Is Frozen: Yes ☒ No ☐

Date and Initials of person examining contents: 2/6/09

Temp should be above freezing to 6°C

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.
Samples Arrived within Hold Time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time Analysis (<72hr):	☒ Yes ☐ No ☐ N/A	6.
Rush Turn Around Time Requested:	☒ Yes ☐ No ☒ N/A	7.
Sufficient Volume:	☒ Yes ☐ No ☐ N/A	8.
Correct Containers Used:	☒ Yes ☐ No ☐ N/A	9.
-Pace Containers Used:	☒ Yes ☐ No ☐ N/A	
Containers Intact:	☒ Yes ☐ No ☐ N/A	10.
Filtered volume received for Dissolved tests	☒ Yes ☐ No ☐ N/A	11.
Sample Labels match COC:	☒ Yes ☐ No ☐ N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>Soil</u>		
All containers needing preservation have been checked.	☒ Yes ☐ No ☐ N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☒ Yes ☐ No ☐ N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☒ Yes ☐ No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	☒ Yes ☐ No ☐ N/A	14.
Headspace in VOA Vials (>6mm):	☒ Yes ☐ No ☐ N/A	15.
Trip Blank Present:	☒ Yes ☐ No ☐ N/A	16.
Trip Blank Custody Seals Present	☒ Yes ☐ No ☐ N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: (Signature)

Date: 02/

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

March 02, 2009

Leena Lothe
Mundell & Associates, Inc.
110 South Downey Avenue
Indianapolis, IN 46219

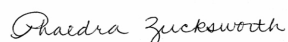
RE: Project: Michigan Meadows
Pace Project No.: 5023501

Dear Leena Lothe:

Enclosed are the analytical results for sample(s) received by the laboratory on February 19, 2009. The results relate only to the samples included in this report. 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,



Phaedra Zucksworth

phaedra.zucksworth@pacelabs.com
Project Manager

Illinois/NELAC Certification #: 100418
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Ohio VAP: CL0065
Pennsylvania: 68-00791
West Virginia Certification #: 330

Enclosures

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Michigan Meadows

Pace Project No.: 5023501

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5023501001	SB-9 (24')	Water	02/16/09 16:00	02/19/09 13:33
5023501002	SB-8 (24')	Water	02/16/09 16:45	02/19/09 13:33
5023501003	SB-10 (24')	Water	02/17/09 10:05	02/19/09 13:33
5023501004	DUP	Water	02/16/09 08:00	02/19/09 13:33
5023501005	SB-9 (6-7')	Solid	02/16/09 15:46	02/19/09 13:33
5023501006	SB-9 (15-16')	Solid	02/16/09 15:52	02/19/09 13:33
5023501007	SB-9 (12-13')	Solid	02/16/09 15:50	02/19/09 13:33
5023501008	SB-8 (5-6')	Solid	02/16/09 17:00	02/19/09 13:33
5023501009	SB-8 (12-13')	Solid	02/16/09 17:02	02/19/09 13:33
5023501010	SB-8 (15-16')	Solid	02/16/09 17:10	02/19/09 13:33
5023501011	SB-10 (4-6')	Solid	02/17/09 10:20	02/19/09 13:33
5023501012	SB-10 (8-10')	Solid	02/17/09 10:25	02/19/09 13:33
5023501013	SB-10 (14-16')	Solid	02/17/09 10:30	02/19/09 13:33
5023501014	SB-15 (4-6')	Solid	02/17/09 13:00	02/19/09 13:33
5023501015	SB-15 (8-10')	Solid	02/17/09 13:10	02/19/09 13:33
5023501016	SB-15 (12-14')	Solid	02/17/09 13:15	02/19/09 13:33
5023501017	SB-16 (4-6')	Solid	02/17/09 13:45	02/19/09 13:33
5023501018	SB-16 (8-10')	Solid	02/17/09 13:50	02/19/09 13:33
5023501019	SB-16 (12-14')	Solid	02/17/09 13:55	02/19/09 13:33
5023501020	SB-17 (4-6')	Solid	02/17/09 15:00	02/19/09 13:33
5023501021	SB-17 (10-12')	Solid	02/17/09 15:05	02/19/09 13:33
5023501022	SB-17 (12-14')	Solid	02/17/09 15:10	02/19/09 13:33
5023501023	TRIP BLANK	Water	02/17/09 08:00	02/19/09 13:33

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Michigan Meadows

Pace Project No.: 5023501

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5023501001	SB-9 (24')	EPA 8260	AMV	20
5023501002	SB-8 (24')	EPA 8260	AMV	20
5023501003	SB-10 (24')	EPA 8260	AMV	20
5023501004	DUP	EPA 8260	AMV	20
5023501005	SB-9 (6-7')	ASTM D2974-87	RAK	1
		EPA 8260	JLF	20
5023501006	SB-9 (15-16')	ASTM D2974-87	RAK	1
		EPA 8260	JLF	20
5023501007	SB-9 (12-13')	ASTM D2974-87	RAK	1
		EPA 8260	JLF	20
5023501008	SB-8 (5-6')	ASTM D2974-87	RAK	1
		EPA 8260	JLF	20
5023501009	SB-8 (12-13')	ASTM D2974-87	RAK	1
		EPA 8260	JLF	20
5023501010	SB-8 (15-16')	ASTM D2974-87	RAK	1
		EPA 8260	JLF	20
5023501011	SB-10 (4-6')	ASTM D2974-87	RAK	1
		EPA 8260	JLF	20
5023501012	SB-10 (8-10')	ASTM D2974-87	RAK	1
		EPA 8260	JLF	20
5023501013	SB-10 (14-16')	ASTM D2974-87	RAK	1
		EPA 8260	JLF	20
5023501014	SB-15 (4-6')	ASTM D2974-87	RAK	1
		EPA 8260	JLF	20
5023501015	SB-15 (8-10')	ASTM D2974-87	RAK	1
		EPA 8260	JLF	20
5023501016	SB-15 (12-14')	ASTM D2974-87	RAK	1
		EPA 8260	JLF	20
5023501017	SB-16 (4-6')	ASTM D2974-87	RAK	1
		EPA 8260	JLF	20
5023501018	SB-16 (8-10')	ASTM D2974-87	RAK	1
		EPA 8260	JLF	20
5023501019	SB-16 (12-14')	ASTM D2974-87	RAK	1
		EPA 8260	JLF	20
5023501020	SB-17 (4-6')	ASTM D2974-87	RAK	1
		EPA 8260	JLF	20
5023501021	SB-17 (10-12')	ASTM D2974-87	RAK	1

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Michigan Meadows

Pace Project No.: 5023501

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5023501022	SB-17 (12-14')	EPA 8260	JLF	20
		ASTM D2974-87	RAK	1
5023501023	TRIP BLANK	EPA 8260	JLF	20
		EPA 8260	AMV	20

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Michigan Meadows

Pace Project No.: 5023501

Sample: SB-9 (24')		Lab ID: 5023501001	Collected: 02/16/09 16:00	Received: 02/19/09 13:33	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		02/24/09 13:18	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/24/09 13:18	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/24/09 13:18	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/24/09 13:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/24/09 13:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/24/09 13:18	75-35-4	
cis-1,2-Dichloroethene	284	ug/L	50.0	10		02/25/09 12:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/24/09 13:18	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/24/09 13:18	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		02/24/09 13:18	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/24/09 13:18	91-20-3	
Tetrachloroethene	11.9	ug/L	5.0	1		02/24/09 13:18	127-18-4	
Toluene	ND	ug/L	5.0	1		02/24/09 13:18	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/24/09 13:18	71-55-6	
Trichloroethene	7.3	ug/L	5.0	1		02/24/09 13:18	79-01-6	
Vinyl chloride	4.0	ug/L	2.0	1		02/24/09 13:18	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/24/09 13:18	1330-20-7	
Dibromofluoromethane (S)	100	%	80-123	1		02/24/09 13:18	1868-53-7	
4-Bromofluorobenzene (S)	102	%	70-126	1		02/24/09 13:18	460-00-4	
Toluene-d8 (S)	103	%	80-116	1		02/24/09 13:18	2037-26-5	

ANALYTICAL RESULTS

Project: Michigan Meadows

Pace Project No.: 5023501

Sample: SB-8 (24')		Lab ID: 5023501002	Collected: 02/16/09 16:45	Received: 02/19/09 13:33	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		02/24/09 13:52	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/24/09 13:52	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/24/09 13:52	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/24/09 13:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/24/09 13:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/24/09 13:52	75-35-4	
cis-1,2-Dichloroethene	159	ug/L	5.0	1		02/24/09 13:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/24/09 13:52	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/24/09 13:52	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		02/24/09 13:52	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/24/09 13:52	91-20-3	
Tetrachloroethene	13.3	ug/L	5.0	1		02/24/09 13:52	127-18-4	
Toluene	ND	ug/L	5.0	1		02/24/09 13:52	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/24/09 13:52	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		02/24/09 13:52	79-01-6	
Vinyl chloride	22.7	ug/L	2.0	1		02/24/09 13:52	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/24/09 13:52	1330-20-7	
Dibromofluoromethane (S)	103	%	80-123	1		02/24/09 13:52	1868-53-7	
4-Bromofluorobenzene (S)	101	%	70-126	1		02/24/09 13:52	460-00-4	
Toluene-d8 (S)	103	%	80-116	1		02/24/09 13:52	2037-26-5	

ANALYTICAL RESULTS

Project: Michigan Meadows

Pace Project No.: 5023501

Sample: SB-10 (24')		Lab ID: 5023501003	Collected: 02/17/09 10:05	Received: 02/19/09 13:33	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		02/24/09 14:26	71-43-2	
Carbon tetrachloride	ND ug/L		5.0	1		02/24/09 14:26	56-23-5	
Chloroform	ND ug/L		5.0	1		02/24/09 14:26	67-66-3	
1,1-Dichloroethane	ND ug/L		5.0	1		02/24/09 14:26	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		02/24/09 14:26	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		02/24/09 14:26	75-35-4	
cis-1,2-Dichloroethene	302 ug/L		5.0	1		02/24/09 14:26	156-59-2	E
trans-1,2-Dichloroethene	ND ug/L		5.0	1		02/24/09 14:26	156-60-5	
Ethylbenzene	ND ug/L		5.0	1		02/24/09 14:26	100-41-4	
Methylene chloride	ND ug/L		5.0	1		02/24/09 14:26	75-09-2	
Naphthalene	ND ug/L		5.0	1		02/24/09 14:26	91-20-3	
Tetrachloroethene	ND ug/L		5.0	1		02/24/09 14:26	127-18-4	
Toluene	ND ug/L		5.0	1		02/24/09 14:26	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		02/24/09 14:26	71-55-6	
Trichloroethene	ND ug/L		5.0	1		02/24/09 14:26	79-01-6	
Vinyl chloride	ND ug/L		2.0	1		02/24/09 14:26	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		02/24/09 14:26	1330-20-7	
Dibromofluoromethane (S)	101 %		80-123	1		02/24/09 14:26	1868-53-7	
4-Bromofluorobenzene (S)	101 %		70-126	1		02/24/09 14:26	460-00-4	
Toluene-d8 (S)	102 %		80-116	1		02/24/09 14:26	2037-26-5	

ANALYTICAL RESULTS

Project: Michigan Meadows

Pace Project No.: 5023501

Sample: DUP		Lab ID: 5023501004	Collected: 02/16/09 08:00	Received: 02/19/09 13:33	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		02/24/09 15:00	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		02/24/09 15:00	56-23-5	
Chloroform	ND	ug/L	5.0	1		02/24/09 15:00	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/24/09 15:00	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/24/09 15:00	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/24/09 15:00	75-35-4	
cis-1,2-Dichloroethene	305	ug/L	5.0	1		02/24/09 15:00	156-59-2	E
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/24/09 15:00	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		02/24/09 15:00	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		02/24/09 15:00	75-09-2	
Naphthalene	ND	ug/L	5.0	1		02/24/09 15:00	91-20-3	
Tetrachloroethene	10.1	ug/L	5.0	1		02/24/09 15:00	127-18-4	
Toluene	ND	ug/L	5.0	1		02/24/09 15:00	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/24/09 15:00	71-55-6	
Trichloroethene	8.3	ug/L	5.0	1		02/24/09 15:00	79-01-6	
Vinyl chloride	3.5	ug/L	2.0	1		02/24/09 15:00	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		02/24/09 15:00	1330-20-7	
Dibromofluoromethane (S)	99 %		80-123	1		02/24/09 15:00	1868-53-7	
4-Bromofluorobenzene (S)	102 %		70-126	1		02/24/09 15:00	460-00-4	
Toluene-d8 (S)	103 %		80-116	1		02/24/09 15:00	2037-26-5	

ANALYTICAL RESULTS

Project: Michigan Meadows

Pace Project No.: 5023501

Sample: SB-9 (6-7') Lab ID: 5023501005 Collected: 02/16/09 15:46 Received: 02/19/09 13:33 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Benzene	ND	ug/kg	5.2	1		02/23/09 16:41	71-43-2	
Carbon tetrachloride	ND	ug/kg	5.2	1		02/23/09 16:41	56-23-5	
Chloroform	ND	ug/kg	5.2	1		02/23/09 16:41	67-66-3	
1,1-Dichloroethane	ND	ug/kg	5.2	1		02/23/09 16:41	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.2	1		02/23/09 16:41	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.2	1		02/23/09 16:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.2	1		02/23/09 16:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.2	1		02/23/09 16:41	156-60-5	
Ethylbenzene	ND	ug/kg	5.2	1		02/23/09 16:41	100-41-4	
Methylene chloride	ND	ug/kg	20.9	1		02/23/09 16:41	75-09-2	
Naphthalene	ND	ug/kg	5.2	1		02/23/09 16:41	91-20-3	
Tetrachloroethene	6.5	ug/kg	5.2	1		02/23/09 16:41	127-18-4	
Toluene	ND	ug/kg	5.2	1		02/23/09 16:41	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	5.2	1		02/23/09 16:41	71-55-6	
Trichloroethene	ND	ug/kg	5.2	1		02/23/09 16:41	79-01-6	
Vinyl chloride	ND	ug/kg	5.2	1		02/23/09 16:41	75-01-4	
Xylene (Total)	ND	ug/kg	10.4	1		02/23/09 16:41	1330-20-7	
Dibromofluoromethane (S)	104	%	80-124	1		02/23/09 16:41	1868-53-7	
Toluene-d8 (S)	102	%	58-145	1		02/23/09 16:41	2037-26-5	
4-Bromofluorobenzene (S)	99	%	61-131	1		02/23/09 16:41	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	4.1	%	0.10	1		02/23/09 19:01		

ANALYTICAL RESULTS

Project: Michigan Meadows

Pace Project No.: 5023501

Sample: SB-9 (15-16') Lab ID: 5023501006 Collected: 02/16/09 15:52 Received: 02/19/09 13:33 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Benzene	ND	ug/kg	5.2	1		02/23/09 17:13	71-43-2	
Carbon tetrachloride	ND	ug/kg	5.2	1		02/23/09 17:13	56-23-5	
Chloroform	ND	ug/kg	5.2	1		02/23/09 17:13	67-66-3	
1,1-Dichloroethane	ND	ug/kg	5.2	1		02/23/09 17:13	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.2	1		02/23/09 17:13	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.2	1		02/23/09 17:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.2	1		02/23/09 17:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.2	1		02/23/09 17:13	156-60-5	
Ethylbenzene	ND	ug/kg	5.2	1		02/23/09 17:13	100-41-4	
Methylene chloride	ND	ug/kg	20.8	1		02/23/09 17:13	75-09-2	
Naphthalene	ND	ug/kg	5.2	1		02/23/09 17:13	91-20-3	
Tetrachloroethene	18.3	ug/kg	5.2	1		02/23/09 17:13	127-18-4	
Toluene	ND	ug/kg	5.2	1		02/23/09 17:13	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	5.2	1		02/23/09 17:13	71-55-6	
Trichloroethene	ND	ug/kg	5.2	1		02/23/09 17:13	79-01-6	
Vinyl chloride	ND	ug/kg	5.2	1		02/23/09 17:13	75-01-4	
Xylene (Total)	ND	ug/kg	10.4	1		02/23/09 17:13	1330-20-7	
Dibromofluoromethane (S)	105	%	80-124	1		02/23/09 17:13	1868-53-7	
Toluene-d8 (S)	100	%	58-145	1		02/23/09 17:13	2037-26-5	
4-Bromofluorobenzene (S)	99	%	61-131	1		02/23/09 17:13	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	3.7	%	0.10	1		02/23/09 19:01		

ANALYTICAL RESULTS

Project: Michigan Meadows

Pace Project No.: 5023501

Sample: SB-9 (12-13') Lab ID: 5023501007 Collected: 02/16/09 15:50 Received: 02/19/09 13:33 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Benzene	ND	ug/kg	5.2	1		02/23/09 17:45	71-43-2	
Carbon tetrachloride	ND	ug/kg	5.2	1		02/23/09 17:45	56-23-5	
Chloroform	ND	ug/kg	5.2	1		02/23/09 17:45	67-66-3	
1,1-Dichloroethane	ND	ug/kg	5.2	1		02/23/09 17:45	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.2	1		02/23/09 17:45	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.2	1		02/23/09 17:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.2	1		02/23/09 17:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.2	1		02/23/09 17:45	156-60-5	
Ethylbenzene	ND	ug/kg	5.2	1		02/23/09 17:45	100-41-4	
Methylene chloride	ND	ug/kg	20.8	1		02/23/09 17:45	75-09-2	
Naphthalene	ND	ug/kg	5.2	1		02/23/09 17:45	91-20-3	
Tetrachloroethene	10.4	ug/kg	5.2	1		02/23/09 17:45	127-18-4	
Toluene	ND	ug/kg	5.2	1		02/23/09 17:45	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	5.2	1		02/23/09 17:45	71-55-6	
Trichloroethene	ND	ug/kg	5.2	1		02/23/09 17:45	79-01-6	
Vinyl chloride	ND	ug/kg	5.2	1		02/23/09 17:45	75-01-4	
Xylene (Total)	ND	ug/kg	10.4	1		02/23/09 17:45	1330-20-7	
Dibromofluoromethane (S)	104	%	80-124	1		02/23/09 17:45	1868-53-7	
Toluene-d8 (S)	101	%	58-145	1		02/23/09 17:45	2037-26-5	
4-Bromofluorobenzene (S)	98	%	61-131	1		02/23/09 17:45	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	3.8	%	0.10	1		02/23/09 19:01		

ANALYTICAL RESULTS

Project: Michigan Meadows

Pace Project No.: 5023501

Sample: SB-8 (5-6') Lab ID: 5023501008 Collected: 02/16/09 17:00 Received: 02/19/09 13:33 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Benzene	ND	ug/kg	5.2	1		02/23/09 19:23	71-43-2	
Carbon tetrachloride	ND	ug/kg	5.2	1		02/23/09 19:23	56-23-5	
Chloroform	ND	ug/kg	5.2	1		02/23/09 19:23	67-66-3	
1,1-Dichloroethane	ND	ug/kg	5.2	1		02/23/09 19:23	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.2	1		02/23/09 19:23	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.2	1		02/23/09 19:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.2	1		02/23/09 19:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.2	1		02/23/09 19:23	156-60-5	
Ethylbenzene	ND	ug/kg	5.2	1		02/23/09 19:23	100-41-4	
Methylene chloride	ND	ug/kg	21.0	1		02/23/09 19:23	75-09-2	
Naphthalene	ND	ug/kg	5.2	1		02/23/09 19:23	91-20-3	
Tetrachloroethene	20.0	ug/kg	5.2	1		02/23/09 19:23	127-18-4	
Toluene	ND	ug/kg	5.2	1		02/23/09 19:23	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	5.2	1		02/23/09 19:23	71-55-6	
Trichloroethene	ND	ug/kg	5.2	1		02/23/09 19:23	79-01-6	
Vinyl chloride	ND	ug/kg	5.2	1		02/23/09 19:23	75-01-4	
Xylene (Total)	ND	ug/kg	10.5	1		02/23/09 19:23	1330-20-7	
Dibromofluoromethane (S)	106	%	80-124	1		02/23/09 19:23	1868-53-7	
Toluene-d8 (S)	101	%	58-145	1		02/23/09 19:23	2037-26-5	
4-Bromofluorobenzene (S)	101	%	61-131	1		02/23/09 19:23	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	4.7	%	0.10	1		02/23/09 19:02		

ANALYTICAL RESULTS

Project: Michigan Meadows

Pace Project No.: 5023501

Sample: SB-8 (12-13') Lab ID: 5023501009 Collected: 02/16/09 17:02 Received: 02/19/09 13:33 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Benzene	ND	ug/kg	5.1	1		02/23/09 19:59	71-43-2	
Carbon tetrachloride	ND	ug/kg	5.1	1		02/23/09 19:59	56-23-5	
Chloroform	ND	ug/kg	5.1	1		02/23/09 19:59	67-66-3	
1,1-Dichloroethane	ND	ug/kg	5.1	1		02/23/09 19:59	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.1	1		02/23/09 19:59	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.1	1		02/23/09 19:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.1	1		02/23/09 19:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.1	1		02/23/09 19:59	156-60-5	
Ethylbenzene	ND	ug/kg	5.1	1		02/23/09 19:59	100-41-4	
Methylene chloride	ND	ug/kg	20.5	1		02/23/09 19:59	75-09-2	
Naphthalene	ND	ug/kg	5.1	1		02/23/09 19:59	91-20-3	
Tetrachloroethene	73.9	ug/kg	5.1	1		02/23/09 19:59	127-18-4	
Toluene	ND	ug/kg	5.1	1		02/23/09 19:59	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	5.1	1		02/23/09 19:59	71-55-6	
Trichloroethene	ND	ug/kg	5.1	1		02/23/09 19:59	79-01-6	
Vinyl chloride	ND	ug/kg	5.1	1		02/23/09 19:59	75-01-4	
Xylene (Total)	ND	ug/kg	10.3	1		02/23/09 19:59	1330-20-7	
Dibromofluoromethane (S)	104	%	80-124	1		02/23/09 19:59	1868-53-7	
Toluene-d8 (S)	101	%	58-145	1		02/23/09 19:59	2037-26-5	
4-Bromofluorobenzene (S)	98	%	61-131	1		02/23/09 19:59	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	2.7	%	0.10	1		02/23/09 19:02		

ANALYTICAL RESULTS

Project: Michigan Meadows

Pace Project No.: 5023501

Sample: SB-8 (15-16') Lab ID: 5023501010 Collected: 02/16/09 17:10 Received: 02/19/09 13:33 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Benzene	ND	ug/kg	5.2	1		02/23/09 20:33	71-43-2	
Carbon tetrachloride	ND	ug/kg	5.2	1		02/23/09 20:33	56-23-5	
Chloroform	ND	ug/kg	5.2	1		02/23/09 20:33	67-66-3	
1,1-Dichloroethane	ND	ug/kg	5.2	1		02/23/09 20:33	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.2	1		02/23/09 20:33	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.2	1		02/23/09 20:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.2	1		02/23/09 20:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.2	1		02/23/09 20:33	156-60-5	
Ethylbenzene	ND	ug/kg	5.2	1		02/23/09 20:33	100-41-4	
Methylene chloride	ND	ug/kg	20.7	1		02/23/09 20:33	75-09-2	
Naphthalene	ND	ug/kg	5.2	1		02/23/09 20:33	91-20-3	
Tetrachloroethene	168	ug/kg	5.2	1		02/23/09 20:33	127-18-4	
Toluene	ND	ug/kg	5.2	1		02/23/09 20:33	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	5.2	1		02/23/09 20:33	71-55-6	
Trichloroethene	ND	ug/kg	5.2	1		02/23/09 20:33	79-01-6	
Vinyl chloride	ND	ug/kg	5.2	1		02/23/09 20:33	75-01-4	
Xylene (Total)	ND	ug/kg	10.3	1		02/23/09 20:33	1330-20-7	
Dibromofluoromethane (S)	104	%	80-124	1		02/23/09 20:33	1868-53-7	
Toluene-d8 (S)	101	%	58-145	1		02/23/09 20:33	2037-26-5	
4-Bromofluorobenzene (S)	97	%	61-131	1		02/23/09 20:33	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	3.3	%	0.10	1		02/23/09 19:02		

ANALYTICAL RESULTS

Project: Michigan Meadows

Pace Project No.: 5023501

Sample: SB-10 (4-6') Lab ID: 5023501011 Collected: 02/17/09 10:20 Received: 02/19/09 13:33 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Benzene	ND	ug/kg	5.2	1		02/23/09 21:05	71-43-2	
Carbon tetrachloride	ND	ug/kg	5.2	1		02/23/09 21:05	56-23-5	
Chloroform	ND	ug/kg	5.2	1		02/23/09 21:05	67-66-3	
1,1-Dichloroethane	ND	ug/kg	5.2	1		02/23/09 21:05	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.2	1		02/23/09 21:05	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.2	1		02/23/09 21:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.2	1		02/23/09 21:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.2	1		02/23/09 21:05	156-60-5	
Ethylbenzene	ND	ug/kg	5.2	1		02/23/09 21:05	100-41-4	
Methylene chloride	ND	ug/kg	20.8	1		02/23/09 21:05	75-09-2	
Naphthalene	ND	ug/kg	5.2	1		02/23/09 21:05	91-20-3	
Tetrachloroethene	18.1	ug/kg	5.2	1		02/23/09 21:05	127-18-4	
Toluene	ND	ug/kg	5.2	1		02/23/09 21:05	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	5.2	1		02/23/09 21:05	71-55-6	
Trichloroethene	ND	ug/kg	5.2	1		02/23/09 21:05	79-01-6	
Vinyl chloride	ND	ug/kg	5.2	1		02/23/09 21:05	75-01-4	
Xylene (Total)	ND	ug/kg	10.4	1		02/23/09 21:05	1330-20-7	
Dibromofluoromethane (S)	105	%	80-124	1		02/23/09 21:05	1868-53-7	
Toluene-d8 (S)	101	%	58-145	1		02/23/09 21:05	2037-26-5	
4-Bromofluorobenzene (S)	97	%	61-131	1		02/23/09 21:05	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	4.0	%	0.10	1		02/23/09 19:02		

ANALYTICAL RESULTS

Project: Michigan Meadows

Pace Project No.: 5023501

Sample: SB-10 (8-10') **Lab ID:** 5023501012 **Collected:** 02/17/09 10:25 **Received:** 02/19/09 13:33 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Benzene	ND	ug/kg	5.2	1		02/23/09 21:37	71-43-2	
Carbon tetrachloride	ND	ug/kg	5.2	1		02/23/09 21:37	56-23-5	
Chloroform	ND	ug/kg	5.2	1		02/23/09 21:37	67-66-3	
1,1-Dichloroethane	ND	ug/kg	5.2	1		02/23/09 21:37	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.2	1		02/23/09 21:37	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.2	1		02/23/09 21:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.2	1		02/23/09 21:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.2	1		02/23/09 21:37	156-60-5	
Ethylbenzene	ND	ug/kg	5.2	1		02/23/09 21:37	100-41-4	
Methylene chloride	ND	ug/kg	20.7	1		02/23/09 21:37	75-09-2	
Naphthalene	ND	ug/kg	5.2	1		02/23/09 21:37	91-20-3	
Tetrachloroethene	23.4	ug/kg	5.2	1		02/23/09 21:37	127-18-4	
Toluene	ND	ug/kg	5.2	1		02/23/09 21:37	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	5.2	1		02/23/09 21:37	71-55-6	
Trichloroethene	ND	ug/kg	5.2	1		02/23/09 21:37	79-01-6	
Vinyl chloride	ND	ug/kg	5.2	1		02/23/09 21:37	75-01-4	
Xylene (Total)	ND	ug/kg	10.4	1		02/23/09 21:37	1330-20-7	
Dibromofluoromethane (S)	106	%	80-124	1		02/23/09 21:37	1868-53-7	
Toluene-d8 (S)	102	%	58-145	1		02/23/09 21:37	2037-26-5	
4-Bromofluorobenzene (S)	101	%	61-131	1		02/23/09 21:37	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	3.5	%	0.10	1		02/23/09 19:03		

ANALYTICAL RESULTS

Project: Michigan Meadows

Pace Project No.: 5023501

Sample: SB-10 (14-16') Lab ID: 5023501013 Collected: 02/17/09 10:30 Received: 02/19/09 13:33 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Benzene	ND	ug/kg	5.2	1		02/23/09 22:10	71-43-2	
Carbon tetrachloride	ND	ug/kg	5.2	1		02/23/09 22:10	56-23-5	
Chloroform	ND	ug/kg	5.2	1		02/23/09 22:10	67-66-3	
1,1-Dichloroethane	ND	ug/kg	5.2	1		02/23/09 22:10	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.2	1		02/23/09 22:10	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.2	1		02/23/09 22:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.2	1		02/23/09 22:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.2	1		02/23/09 22:10	156-60-5	
Ethylbenzene	ND	ug/kg	5.2	1		02/23/09 22:10	100-41-4	
Methylene chloride	ND	ug/kg	20.9	1		02/23/09 22:10	75-09-2	
Naphthalene	ND	ug/kg	5.2	1		02/23/09 22:10	91-20-3	
Tetrachloroethene	85.8	ug/kg	5.2	1		02/23/09 22:10	127-18-4	
Toluene	ND	ug/kg	5.2	1		02/23/09 22:10	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	5.2	1		02/23/09 22:10	71-55-6	
Trichloroethene	ND	ug/kg	5.2	1		02/23/09 22:10	79-01-6	
Vinyl chloride	ND	ug/kg	5.2	1		02/23/09 22:10	75-01-4	
Xylene (Total)	ND	ug/kg	10.5	1		02/23/09 22:10	1330-20-7	
Dibromofluoromethane (S)	105	%	80-124	1		02/23/09 22:10	1868-53-7	
Toluene-d8 (S)	101	%	58-145	1		02/23/09 22:10	2037-26-5	
4-Bromofluorobenzene (S)	99	%	61-131	1		02/23/09 22:10	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	4.4	%	0.10	1		02/23/09 19:03		

ANALYTICAL RESULTS

Project: Michigan Meadows

Pace Project No.: 5023501

Sample: SB-15 (4-6') Lab ID: 5023501014 Collected: 02/17/09 13:00 Received: 02/19/09 13:33 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Benzene	ND	ug/kg	5.4	1		02/24/09 13:03	71-43-2	
Carbon tetrachloride	ND	ug/kg	5.4	1		02/24/09 13:03	56-23-5	
Chloroform	ND	ug/kg	5.4	1		02/24/09 13:03	67-66-3	
1,1-Dichloroethane	ND	ug/kg	5.4	1		02/24/09 13:03	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.4	1		02/24/09 13:03	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.4	1		02/24/09 13:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.4	1		02/24/09 13:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.4	1		02/24/09 13:03	156-60-5	
Ethylbenzene	ND	ug/kg	5.4	1		02/24/09 13:03	100-41-4	
Methylene chloride	ND	ug/kg	21.6	1		02/24/09 13:03	75-09-2	
Naphthalene	ND	ug/kg	5.4	1		02/24/09 13:03	91-20-3	
Tetrachloroethene	110	ug/kg	5.4	1		02/24/09 13:03	127-18-4	
Toluene	ND	ug/kg	5.4	1		02/24/09 13:03	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	5.4	1		02/24/09 13:03	71-55-6	
Trichloroethene	ND	ug/kg	5.4	1		02/24/09 13:03	79-01-6	
Vinyl chloride	ND	ug/kg	5.4	1		02/24/09 13:03	75-01-4	
Xylene (Total)	ND	ug/kg	10.8	1		02/24/09 13:03	1330-20-7	
Dibromofluoromethane (S)	104	%	80-124	1		02/24/09 13:03	1868-53-7	
Toluene-d8 (S)	99	%	58-145	1		02/24/09 13:03	2037-26-5	
4-Bromofluorobenzene (S)	98	%	61-131	1		02/24/09 13:03	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	7.3	%	0.10	1		02/23/09 19:03		

ANALYTICAL RESULTS

Project: Michigan Meadows

Pace Project No.: 5023501

Sample: SB-15 (8-10') Lab ID: 5023501015 Collected: 02/17/09 13:10 Received: 02/19/09 13:33 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Benzene	ND	ug/kg	5.2	1		02/23/09 18:01	71-43-2	
Carbon tetrachloride	ND	ug/kg	5.2	1		02/23/09 18:01	56-23-5	
Chloroform	ND	ug/kg	5.2	1		02/23/09 18:01	67-66-3	
1,1-Dichloroethane	ND	ug/kg	5.2	1		02/23/09 18:01	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.2	1		02/23/09 18:01	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.2	1		02/23/09 18:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.2	1		02/23/09 18:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.2	1		02/23/09 18:01	156-60-5	
Ethylbenzene	ND	ug/kg	5.2	1		02/23/09 18:01	100-41-4	
Methylene chloride	ND	ug/kg	20.8	1		02/23/09 18:01	75-09-2	
Naphthalene	ND	ug/kg	5.2	1		02/23/09 18:01	91-20-3	
Tetrachloroethene	130	ug/kg	5.2	1		02/23/09 18:01	127-18-4	
Toluene	ND	ug/kg	5.2	1		02/23/09 18:01	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	5.2	1		02/23/09 18:01	71-55-6	
Trichloroethene	ND	ug/kg	5.2	1		02/23/09 18:01	79-01-6	
Vinyl chloride	ND	ug/kg	5.2	1		02/23/09 18:01	75-01-4	
Xylene (Total)	ND	ug/kg	10.4	1		02/23/09 18:01	1330-20-7	
Dibromofluoromethane (S)	103	%	80-124	1		02/23/09 18:01	1868-53-7	
Toluene-d8 (S)	100	%	58-145	1		02/23/09 18:01	2037-26-5	
4-Bromofluorobenzene (S)	100	%	61-131	1		02/23/09 18:01	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	4.0	%	0.10	1		02/23/09 19:03		

ANALYTICAL RESULTS

Project: Michigan Meadows

Pace Project No.: 5023501

Sample: SB-15 (12-14') Lab ID: 5023501016 Collected: 02/17/09 13:15 Received: 02/19/09 13:33 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Benzene	ND	ug/kg	5.2	1		02/23/09 19:05	71-43-2	
Carbon tetrachloride	ND	ug/kg	5.2	1		02/23/09 19:05	56-23-5	
Chloroform	ND	ug/kg	5.2	1		02/23/09 19:05	67-66-3	
1,1-Dichloroethane	ND	ug/kg	5.2	1		02/23/09 19:05	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.2	1		02/23/09 19:05	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.2	1		02/23/09 19:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.2	1		02/23/09 19:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.2	1		02/23/09 19:05	156-60-5	
Ethylbenzene	ND	ug/kg	5.2	1		02/23/09 19:05	100-41-4	
Methylene chloride	ND	ug/kg	20.7	1		02/23/09 19:05	75-09-2	
Naphthalene	ND	ug/kg	5.2	1		02/23/09 19:05	91-20-3	
Tetrachloroethene	7640	ug/kg	130	25		02/24/09 18:53	127-18-4	
Toluene	ND	ug/kg	5.2	1		02/23/09 19:05	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	5.2	1		02/23/09 19:05	71-55-6	
Trichloroethene	11.7	ug/kg	5.2	1		02/23/09 19:05	79-01-6	
Vinyl chloride	ND	ug/kg	5.2	1		02/23/09 19:05	75-01-4	
Xylene (Total)	ND	ug/kg	10.4	1		02/23/09 19:05	1330-20-7	
Dibromofluoromethane (S)	104	%	80-124	1		02/23/09 19:05	1868-53-7	
Toluene-d8 (S)	99	%	58-145	1		02/23/09 19:05	2037-26-5	
4-Bromofluorobenzene (S)	98	%	61-131	1		02/23/09 19:05	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	3.6	%	0.10	1		02/23/09 19:03		

ANALYTICAL RESULTS

Project: Michigan Meadows

Pace Project No.: 5023501

Sample: SB-16 (4-6') Lab ID: 5023501017 Collected: 02/17/09 13:45 Received: 02/19/09 13:33 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Benzene	ND	ug/kg	5.8	1		02/23/09 19:39	71-43-2	
Carbon tetrachloride	ND	ug/kg	5.8	1		02/23/09 19:39	56-23-5	
Chloroform	ND	ug/kg	5.8	1		02/23/09 19:39	67-66-3	
1,1-Dichloroethane	ND	ug/kg	5.8	1		02/23/09 19:39	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.8	1		02/23/09 19:39	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.8	1		02/23/09 19:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.8	1		02/23/09 19:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.8	1		02/23/09 19:39	156-60-5	
Ethylbenzene	ND	ug/kg	5.8	1		02/23/09 19:39	100-41-4	
Methylene chloride	ND	ug/kg	23.4	1		02/23/09 19:39	75-09-2	
Naphthalene	ND	ug/kg	5.8	1		02/23/09 19:39	91-20-3	
Tetrachloroethene	ND	ug/kg	5.8	1		02/23/09 19:39	127-18-4	
Toluene	ND	ug/kg	5.8	1		02/23/09 19:39	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	5.8	1		02/23/09 19:39	71-55-6	
Trichloroethene	ND	ug/kg	5.8	1		02/23/09 19:39	79-01-6	
Vinyl chloride	ND	ug/kg	5.8	1		02/23/09 19:39	75-01-4	
Xylene (Total)	ND	ug/kg	11.7	1		02/23/09 19:39	1330-20-7	
Dibromofluoromethane (S)	103	%	80-124	1		02/23/09 19:39	1868-53-7	
Toluene-d8 (S)	101	%	58-145	1		02/23/09 19:39	2037-26-5	
4-Bromofluorobenzene (S)	100	%	61-131	1		02/23/09 19:39	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	14.4	%	0.10	1		02/23/09 19:03		

ANALYTICAL RESULTS

Project: Michigan Meadows

Pace Project No.: 5023501

Sample: SB-16 (8-10') Lab ID: 5023501018 Collected: 02/17/09 13:50 Received: 02/19/09 13:33 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Benzene	ND	ug/kg	5.6	1		02/23/09 20:15	71-43-2	
Carbon tetrachloride	ND	ug/kg	5.6	1		02/23/09 20:15	56-23-5	
Chloroform	ND	ug/kg	5.6	1		02/23/09 20:15	67-66-3	
1,1-Dichloroethane	ND	ug/kg	5.6	1		02/23/09 20:15	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.6	1		02/23/09 20:15	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.6	1		02/23/09 20:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.6	1		02/23/09 20:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.6	1		02/23/09 20:15	156-60-5	
Ethylbenzene	ND	ug/kg	5.6	1		02/23/09 20:15	100-41-4	
Methylene chloride	ND	ug/kg	22.5	1		02/23/09 20:15	75-09-2	
Naphthalene	ND	ug/kg	5.6	1		02/23/09 20:15	91-20-3	
Tetrachloroethene	11.1	ug/kg	5.6	1		02/23/09 20:15	127-18-4	
Toluene	ND	ug/kg	5.6	1		02/23/09 20:15	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	5.6	1		02/23/09 20:15	71-55-6	
Trichloroethene	ND	ug/kg	5.6	1		02/23/09 20:15	79-01-6	
Vinyl chloride	ND	ug/kg	5.6	1		02/23/09 20:15	75-01-4	
Xylene (Total)	ND	ug/kg	11.2	1		02/23/09 20:15	1330-20-7	
Dibromofluoromethane (S)	105	%	80-124	1		02/23/09 20:15	1868-53-7	
Toluene-d8 (S)	101	%	58-145	1		02/23/09 20:15	2037-26-5	
4-Bromofluorobenzene (S)	100	%	61-131	1		02/23/09 20:15	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	11.1	%	0.10	1		02/23/09 19:04		

ANALYTICAL RESULTS

Project: Michigan Meadows

Pace Project No.: 5023501

Sample: SB-16 (12-14') Lab ID: 5023501019 Collected: 02/17/09 13:55 Received: 02/19/09 13:33 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Benzene	ND	ug/kg	5.4	1		02/23/09 20:49	71-43-2	
Carbon tetrachloride	ND	ug/kg	5.4	1		02/23/09 20:49	56-23-5	
Chloroform	ND	ug/kg	5.4	1		02/23/09 20:49	67-66-3	
1,1-Dichloroethane	ND	ug/kg	5.4	1		02/23/09 20:49	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.4	1		02/23/09 20:49	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.4	1		02/23/09 20:49	75-35-4	
cis-1,2-Dichloroethene	30.4	ug/kg	5.4	1		02/23/09 20:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.4	1		02/23/09 20:49	156-60-5	
Ethylbenzene	ND	ug/kg	5.4	1		02/23/09 20:49	100-41-4	
Methylene chloride	ND	ug/kg	21.8	1		02/23/09 20:49	75-09-2	
Naphthalene	ND	ug/kg	5.4	1		02/23/09 20:49	91-20-3	
Tetrachloroethene	91.0	ug/kg	5.4	1		02/23/09 20:49	127-18-4	
Toluene	ND	ug/kg	5.4	1		02/23/09 20:49	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	5.4	1		02/23/09 20:49	71-55-6	
Trichloroethene	8.8	ug/kg	5.4	1		02/23/09 20:49	79-01-6	
Vinyl chloride	ND	ug/kg	5.4	1		02/23/09 20:49	75-01-4	
Xylene (Total)	ND	ug/kg	10.9	1		02/23/09 20:49	1330-20-7	
Dibromofluoromethane (S)	105	%	80-124	1		02/23/09 20:49	1868-53-7	
Toluene-d8 (S)	101	%	58-145	1		02/23/09 20:49	2037-26-5	
4-Bromofluorobenzene (S)	97	%	61-131	1		02/23/09 20:49	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	8.1	%	0.10	1		02/23/09 19:04		

ANALYTICAL RESULTS

Project: Michigan Meadows

Pace Project No.: 5023501

Sample: SB-17 (4-6') **Lab ID: 5023501020** Collected: 02/17/09 15:00 Received: 02/19/09 13:33 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Benzene	ND	ug/kg	5.8	1		02/23/09 21:21	71-43-2	
Carbon tetrachloride	ND	ug/kg	5.8	1		02/23/09 21:21	56-23-5	
Chloroform	ND	ug/kg	5.8	1		02/23/09 21:21	67-66-3	
1,1-Dichloroethane	ND	ug/kg	5.8	1		02/23/09 21:21	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.8	1		02/23/09 21:21	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.8	1		02/23/09 21:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.8	1		02/23/09 21:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.8	1		02/23/09 21:21	156-60-5	
Ethylbenzene	ND	ug/kg	5.8	1		02/23/09 21:21	100-41-4	
Methylene chloride	ND	ug/kg	23.0	1		02/23/09 21:21	75-09-2	
Naphthalene	ND	ug/kg	5.8	1		02/23/09 21:21	91-20-3	
Tetrachloroethene	77.2	ug/kg	5.8	1		02/23/09 21:21	127-18-4	
Toluene	ND	ug/kg	5.8	1		02/23/09 21:21	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	5.8	1		02/23/09 21:21	71-55-6	
Trichloroethene	ND	ug/kg	5.8	1		02/23/09 21:21	79-01-6	
Vinyl chloride	ND	ug/kg	5.8	1		02/23/09 21:21	75-01-4	
Xylene (Total)	ND	ug/kg	11.5	1		02/23/09 21:21	1330-20-7	
Dibromofluoromethane (S)	105	%	80-124	1		02/23/09 21:21	1868-53-7	
Toluene-d8 (S)	100	%	58-145	1		02/23/09 21:21	2037-26-5	
4-Bromofluorobenzene (S)	102	%	61-131	1		02/23/09 21:21	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	13.1	%	0.10	1		02/23/09 19:04		

ANALYTICAL RESULTS

Project: Michigan Meadows

Pace Project No.: 5023501

Sample: SB-17 (10-12') **Lab ID: 5023501021** Collected: 02/17/09 15:05 Received: 02/19/09 13:33 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Benzene	ND	ug/kg	5.5	1		02/23/09 21:53	71-43-2	
Carbon tetrachloride	ND	ug/kg	5.5	1		02/23/09 21:53	56-23-5	
Chloroform	ND	ug/kg	5.5	1		02/23/09 21:53	67-66-3	
1,1-Dichloroethane	ND	ug/kg	5.5	1		02/23/09 21:53	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.5	1		02/23/09 21:53	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.5	1		02/23/09 21:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.5	1		02/23/09 21:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.5	1		02/23/09 21:53	156-60-5	
Ethylbenzene	ND	ug/kg	5.5	1		02/23/09 21:53	100-41-4	
Methylene chloride	ND	ug/kg	22.0	1		02/23/09 21:53	75-09-2	
Naphthalene	ND	ug/kg	5.5	1		02/23/09 21:53	91-20-3	
Tetrachloroethene	10500	ug/kg	275	50		02/24/09 19:29	127-18-4	
Toluene	ND	ug/kg	5.5	1		02/23/09 21:53	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	5.5	1		02/23/09 21:53	71-55-6	
Trichloroethene	9.6	ug/kg	5.5	1		02/23/09 21:53	79-01-6	
Vinyl chloride	ND	ug/kg	5.5	1		02/23/09 21:53	75-01-4	
Xylene (Total)	ND	ug/kg	11.0	1		02/23/09 21:53	1330-20-7	
Dibromofluoromethane (S)	106	%	80-124	1		02/23/09 21:53	1868-53-7	
Toluene-d8 (S)	99	%	58-145	1		02/23/09 21:53	2037-26-5	
4-Bromofluorobenzene (S)	98	%	61-131	1		02/23/09 21:53	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	9.3	%	0.10	1		02/23/09 19:04		

ANALYTICAL RESULTS

Project: Michigan Meadows

Pace Project No.: 5023501

Sample: SB-17 (12-14') Lab ID: 5023501022 Collected: 02/17/09 15:10 Received: 02/19/09 13:33 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level		Analytical Method: EPA 8260						
Benzene	ND	ug/kg	5.3	1		02/23/09 22:26	71-43-2	
Carbon tetrachloride	ND	ug/kg	5.3	1		02/23/09 22:26	56-23-5	
Chloroform	ND	ug/kg	5.3	1		02/23/09 22:26	67-66-3	
1,1-Dichloroethane	ND	ug/kg	5.3	1		02/23/09 22:26	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.3	1		02/23/09 22:26	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.3	1		02/23/09 22:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.3	1		02/23/09 22:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.3	1		02/23/09 22:26	156-60-5	
Ethylbenzene	ND	ug/kg	5.3	1		02/23/09 22:26	100-41-4	
Methylene chloride	ND	ug/kg	21.4	1		02/23/09 22:26	75-09-2	
Naphthalene	ND	ug/kg	5.3	1		02/23/09 22:26	91-20-3	
Tetrachloroethene	30600	ug/kg	534	100		02/24/09 20:01	127-18-4	
Toluene	ND	ug/kg	5.3	1		02/23/09 22:26	108-88-3	
1,1,1-Trichloroethane	ND	ug/kg	5.3	1		02/23/09 22:26	71-55-6	
Trichloroethene	15.8	ug/kg	5.3	1		02/23/09 22:26	79-01-6	
Vinyl chloride	ND	ug/kg	5.3	1		02/23/09 22:26	75-01-4	
Xylene (Total)	ND	ug/kg	10.7	1		02/23/09 22:26	1330-20-7	
Dibromofluoromethane (S)	104	%	80-124	1		02/23/09 22:26	1868-53-7	
Toluene-d8 (S)	97	%	58-145	1		02/23/09 22:26	2037-26-5	
4-Bromofluorobenzene (S)	96	%	61-131	1		02/23/09 22:26	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	6.4	%	0.10	1		02/23/09 19:04		

ANALYTICAL RESULTS

Project: Michigan Meadows

Pace Project No.: 5023501

Sample: TRIP BLANK		Lab ID: 5023501023	Collected: 02/17/09 08:00	Received: 02/19/09 13:33	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		02/24/09 15:34	71-43-2	
Carbon tetrachloride	ND ug/L		5.0	1		02/24/09 15:34	56-23-5	
Chloroform	ND ug/L		5.0	1		02/24/09 15:34	67-66-3	
1,1-Dichloroethane	ND ug/L		5.0	1		02/24/09 15:34	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		02/24/09 15:34	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		02/24/09 15:34	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		02/24/09 15:34	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		02/24/09 15:34	156-60-5	
Ethylbenzene	ND ug/L		5.0	1		02/24/09 15:34	100-41-4	
Methylene chloride	ND ug/L		5.0	1		02/24/09 15:34	75-09-2	
Naphthalene	ND ug/L		5.0	1		02/24/09 15:34	91-20-3	
Tetrachloroethene	ND ug/L		5.0	1		02/24/09 15:34	127-18-4	
Toluene	ND ug/L		5.0	1		02/24/09 15:34	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		02/24/09 15:34	71-55-6	
Trichloroethene	ND ug/L		5.0	1		02/24/09 15:34	79-01-6	
Vinyl chloride	ND ug/L		2.0	1		02/24/09 15:34	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		02/24/09 15:34	1330-20-7	
Dibromofluoromethane (S)	101 %		80-123	1		02/24/09 15:34	1868-53-7	
4-Bromofluorobenzene (S)	99 %		70-126	1		02/24/09 15:34	460-00-4	
Toluene-d8 (S)	102 %		80-116	1		02/24/09 15:34	2037-26-5	

QUALITY CONTROL DATA

Project: Michigan Meadows

Pace Project No.: 5023501

QC Batch:	PMST/3361	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	5023501005, 5023501006, 5023501007, 5023501008, 5023501009, 5023501010, 5023501011, 5023501012, 5023501013, 5023501014, 5023501015, 5023501016, 5023501017, 5023501018, 5023501019, 5023501020, 5023501021, 5023501022		

SAMPLE DUPLICATE: 266791

Parameter	Units	5023501005 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	4.1	3.7	11	5	R2

SAMPLE DUPLICATE: 266792

Parameter	Units	5023501022 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	6.4	5.0	24	5	R2

QUALITY CONTROL DATA

Project: Michigan Meadows

Pace Project No.: 5023501

QC Batch: MSV/14559 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5030 Low
Associated Lab Samples: 5023501005, 5023501006, 5023501007, 5023501008, 5023501009, 5023501010, 5023501011, 5023501012, 5023501013

METHOD BLANK: 267017 Matrix: Solid

Associated Lab Samples: 5023501005, 5023501006, 5023501007, 5023501008, 5023501009, 5023501010, 5023501011, 5023501012, 5023501013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	5.0	02/23/09 12:51	
1,1-Dichloroethane	ug/kg	ND	5.0	02/23/09 12:51	
1,1-Dichloroethene	ug/kg	ND	5.0	02/23/09 12:51	
1,2-Dichloroethane	ug/kg	ND	5.0	02/23/09 12:51	
Benzene	ug/kg	ND	5.0	02/23/09 12:51	
Carbon tetrachloride	ug/kg	ND	5.0	02/23/09 12:51	
Chloroform	ug/kg	ND	5.0	02/23/09 12:51	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	02/23/09 12:51	
Ethylbenzene	ug/kg	ND	5.0	02/23/09 12:51	
Methylene chloride	ug/kg	ND	20.0	02/23/09 12:51	
Naphthalene	ug/kg	ND	5.0	02/23/09 12:51	
Tetrachloroethene	ug/kg	ND	5.0	02/23/09 12:51	
Toluene	ug/kg	ND	5.0	02/23/09 12:51	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	02/23/09 12:51	
Trichloroethene	ug/kg	ND	5.0	02/23/09 12:51	
Vinyl chloride	ug/kg	ND	5.0	02/23/09 12:51	
Xylene (Total)	ug/kg	ND	10.0	02/23/09 12:51	
4-Bromofluorobenzene (S)	%	98	61-131	02/23/09 12:51	
Dibromofluoromethane (S)	%	103	80-124	02/23/09 12:51	
Toluene-d8 (S)	%	101	58-145	02/23/09 12:51	

LABORATORY CONTROL SAMPLE: 267018

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	50	41.6	83	61-135	
1,1-Dichloroethane	ug/kg	50	42.8	86	62-132	
1,1-Dichloroethene	ug/kg	50	44.8	90	61-123	
1,2-Dichloroethane	ug/kg	50	44.5	89	62-135	
Benzene	ug/kg	50	44.3	89	76-123	
Carbon tetrachloride	ug/kg	50	42.7	85	54-136	
Chloroform	ug/kg	50	43.8	88	74-123	
cis-1,2-Dichloroethene	ug/kg	50	44.8	90	76-119	
Ethylbenzene	ug/kg	50	45.5	91	78-121	
Methylene chloride	ug/kg	50	38.5	77	30-170	
Naphthalene	ug/kg	50	39.1	78	60-128	
Tetrachloroethene	ug/kg	50	31.9	64	63-117	
Toluene	ug/kg	50	44.9	90	72-123	
trans-1,2-Dichloroethene	ug/kg	50	47.5	95	70-122	
Trichloroethene	ug/kg	50	46.0	92	74-121	
Vinyl chloride	ug/kg	50	58.5	117	50-146	

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QUALITY CONTROL DATA

Project: Michigan Meadows

Pace Project No.: 5023501

LABORATORY CONTROL SAMPLE: 267018

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/kg	150	137	92	77-120	
4-Bromofluorobenzene (S)	%			101	61-131	
Dibromofluoromethane (S)	%			104	80-124	
Toluene-d8 (S)	%			103	58-145	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 267019 267020

Parameter	Units	5023501007 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/kg	ND	52	52	36.4	39.1	70	75	27-142	7	20	
1,1-Dichloroethane	ug/kg	ND	52	52	43.9	40.9	84	79	31-141	7	20	
1,1-Dichloroethene	ug/kg	ND	52	52	44.9	43.1	86	83	23-132	4	20	
1,2-Dichloroethane	ug/kg	ND	52	52	47.2	44.1	91	85	30-143	7	20	
Benzene	ug/kg	ND	52	52	43.8	40.7	84	78	50-135	7	20	
Carbon tetrachloride	ug/kg	ND	52	52	35.7	39.1	69	75	30-130	9	20	
Chloroform	ug/kg	ND	52	52	44.3	41.2	85	79	30-136	7	20	
cis-1,2-Dichloroethene	ug/kg	ND	52	52	45.4	42.6	87	82	30-141	6	20	
Ethylbenzene	ug/kg	ND	52	52	39.6	34.3	76	66	50-150	14	20	
Methylene chloride	ug/kg	ND	52	52	43.8	40.4	84	78	30-163	8	20	
Naphthalene	ug/kg	ND	52	52	25.9	23.5	50	45	50-128	10	20	M0
Tetrachloroethene	ug/kg	10.4	52	52	51.6	48.2	79	73	40-155	7	20	
Toluene	ug/kg	ND	52	52	41.8	38.0	80	73	50-149	10	20	
trans-1,2-Dichloroethene	ug/kg	ND	52	52	46.4	43.3	89	83	40-140	7	20	
Trichloroethene	ug/kg	ND	52	52	43.3	39.6	83	76	40-153	9	20	
Vinyl chloride	ug/kg	ND	52	52	59.1	55.6	114	107	36-137	6	20	
Xylene (Total)	ug/kg	ND	156	156	119	102	76	66	50-143	15	20	
4-Bromofluorobenzene (S)	%						100	103	61-131		20	
Dibromofluoromethane (S)	%						103	105	80-124		20	
Toluene-d8 (S)	%						100	104	58-145		20	

QUALITY CONTROL DATA

Project: Michigan Meadows

Pace Project No.: 5023501

QC Batch:	MSV/14561	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV 5030 Low
Associated Lab Samples:	5023501015, 5023501016, 5023501017, 5023501018, 5023501019, 5023501020, 5023501021, 5023501022		
METHOD BLANK:	267025	Matrix:	Solid
Associated Lab Samples:	5023501015, 5023501016, 5023501017, 5023501018, 5023501019, 5023501020, 5023501021, 5023501022		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	5.0	02/23/09 13:07	
1,1-Dichloroethane	ug/kg	ND	5.0	02/23/09 13:07	
1,1-Dichloroethene	ug/kg	ND	5.0	02/23/09 13:07	
1,2-Dichloroethane	ug/kg	ND	5.0	02/23/09 13:07	
Benzene	ug/kg	ND	5.0	02/23/09 13:07	
Carbon tetrachloride	ug/kg	ND	5.0	02/23/09 13:07	
Chloroform	ug/kg	ND	5.0	02/23/09 13:07	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	02/23/09 13:07	
Ethylbenzene	ug/kg	ND	5.0	02/23/09 13:07	
Methylene chloride	ug/kg	ND	20.0	02/23/09 13:07	
Naphthalene	ug/kg	ND	5.0	02/23/09 13:07	
Tetrachloroethene	ug/kg	ND	5.0	02/23/09 13:07	
Toluene	ug/kg	ND	5.0	02/23/09 13:07	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	02/23/09 13:07	
Trichloroethene	ug/kg	ND	5.0	02/23/09 13:07	
Vinyl chloride	ug/kg	ND	5.0	02/23/09 13:07	
Xylene (Total)	ug/kg	ND	10.0	02/23/09 13:07	
4-Bromofluorobenzene (S)	%	100	61-131	02/23/09 13:07	
Dibromofluoromethane (S)	%	102	80-124	02/23/09 13:07	
Toluene-d8 (S)	%	102	58-145	02/23/09 13:07	

LABORATORY CONTROL SAMPLE: 267026

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	50	46.5	93	61-135	
1,1-Dichloroethane	ug/kg	50	42.8	86	62-132	
1,1-Dichloroethene	ug/kg	50	47.5	95	61-123	
1,2-Dichloroethane	ug/kg	50	47.6	95	62-135	
Benzene	ug/kg	50	46.2	92	76-123	
Carbon tetrachloride	ug/kg	50	47.1	94	54-136	
Chloroform	ug/kg	50	45.6	91	74-123	
cis-1,2-Dichloroethene	ug/kg	50	46.0	92	76-119	
Ethylbenzene	ug/kg	50	48.1	96	78-121	
Methylene chloride	ug/kg	50	53.1	106	30-170	
Naphthalene	ug/kg	50	41.9	84	60-128	
Tetrachloroethene	ug/kg	50	34.4	69	63-117	
Toluene	ug/kg	50	46.9	94	72-123	
trans-1,2-Dichloroethene	ug/kg	50	47.6	95	70-122	
Trichloroethene	ug/kg	50	45.6	91	74-121	
Vinyl chloride	ug/kg	50	55.9	112	50-146	
Xylene (Total)	ug/kg	150	144	96	77-120	

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QUALITY CONTROL DATA

Project: Michigan Meadows

Pace Project No.: 5023501

LABORATORY CONTROL SAMPLE: 267026

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			103	61-131	
Dibromofluoromethane (S)	%			103	80-124	
Toluene-d8 (S)	%			103	58-145	

MATRIX SPIKE SAMPLE: 267027

Parameter	Units	5023501015 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	52.1	40.4	78	27-142	
1,1-Dichloroethane	ug/kg	ND	52.1	40.0	77	31-141	
1,1-Dichloroethene	ug/kg	ND	52.1	44.0	84	23-132	
1,2-Dichloroethane	ug/kg	ND	52.1	44.9	86	30-143	
Benzene	ug/kg	ND	52.1	41.4	80	50-135	
Carbon tetrachloride	ug/kg	ND	52.1	38.7	74	30-130	
Chloroform	ug/kg	ND	52.1	42.2	81	30-136	
cis-1,2-Dichloroethene	ug/kg	ND	52.1	42.5	82	30-141	
Ethylbenzene	ug/kg	ND	52.1	36.3	70	50-150	
Methylene chloride	ug/kg	ND	52.1	52.1	84	30-163	
Naphthalene	ug/kg	ND	52.1	19.4	37	50-128	M0
Tetrachloroethene	ug/kg	130	52.1	259	249	40-155	M0
Toluene	ug/kg	ND	52.1	38.4	74	50-149	
trans-1,2-Dichloroethene	ug/kg	ND	52.1	43.4	83	40-140	
Trichloroethene	ug/kg	ND	52.1	42.7	78	40-153	
Vinyl chloride	ug/kg	ND	52.1	55.0	106	36-137	
Xylene (Total)	ug/kg	ND	156	107	68	50-143	
4-Bromofluorobenzene (S)	%				102	61-131	
Dibromofluoromethane (S)	%				105	80-124	
Toluene-d8 (S)	%				102	58-145	

QUALITY CONTROL DATA

Project: Michigan Meadows

Pace Project No.: 5023501

QC Batch: MSV/14571 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5023501001, 5023501002, 5023501003, 5023501004, 5023501023

METHOD BLANK: 267316 Matrix: Water
Associated Lab Samples: 5023501001, 5023501002, 5023501003, 5023501004, 5023501023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	02/24/09 11:03	
1,1-Dichloroethane	ug/L	ND	5.0	02/24/09 11:03	
1,1-Dichloroethene	ug/L	ND	5.0	02/24/09 11:03	
1,2-Dichloroethane	ug/L	ND	5.0	02/24/09 11:03	
Benzene	ug/L	ND	5.0	02/24/09 11:03	
Carbon tetrachloride	ug/L	ND	5.0	02/24/09 11:03	
Chloroform	ug/L	ND	5.0	02/24/09 11:03	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/24/09 11:03	
Ethylbenzene	ug/L	ND	5.0	02/24/09 11:03	
Methylene chloride	ug/L	ND	5.0	02/24/09 11:03	
Naphthalene	ug/L	ND	5.0	02/24/09 11:03	
Tetrachloroethene	ug/L	ND	5.0	02/24/09 11:03	
Toluene	ug/L	ND	5.0	02/24/09 11:03	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/24/09 11:03	
Trichloroethene	ug/L	ND	5.0	02/24/09 11:03	
Vinyl chloride	ug/L	ND	2.0	02/24/09 11:03	
Xylene (Total)	ug/L	ND	10.0	02/24/09 11:03	
4-Bromofluorobenzene (S)	%	101	70-126	02/24/09 11:03	
Dibromofluoromethane (S)	%	103	80-123	02/24/09 11:03	
Toluene-d8 (S)	%	104	80-116	02/24/09 11:03	

LABORATORY CONTROL SAMPLE: 267317

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	46.0	92	69-136	
1,1-Dichloroethane	ug/L	50	46.8	94	67-133	
1,1-Dichloroethene	ug/L	50	48.2	96	63-128	
1,2-Dichloroethane	ug/L	50	56.6	113	69-139	
Benzene	ug/L	50	46.8	94	78-127	
Carbon tetrachloride	ug/L	50	51.5	103	62-143	
Chloroform	ug/L	50	50.8	102	74-131	
cis-1,2-Dichloroethene	ug/L	50	51.7	103	74-128	
Ethylbenzene	ug/L	50	45.6	91	81-126	
Methylene chloride	ug/L	50	51.8	104	32-164	
Naphthalene	ug/L	50	42.0	84	61-135	
Tetrachloroethene	ug/L	50	45.1	90	60-119	
Toluene	ug/L	50	46.4	93	75-129	
trans-1,2-Dichloroethene	ug/L	50	54.4	109	71-126	
Trichloroethene	ug/L	50	52.2	104	74-130	
Vinyl chloride	ug/L	50	49.6	99	55-141	
Xylene (Total)	ug/L	150	140	93	76-132	

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QUALITY CONTROL DATA

Project: Michigan Meadows

Pace Project No.: 5023501

LABORATORY CONTROL SAMPLE: 267317

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			101	70-126	
Dibromofluoromethane (S)	%			106	80-123	
Toluene-d8 (S)	%			98	80-116	

MATRIX SPIKE SAMPLE: 267318

Parameter	Units	5023460009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	50	42.3	85	64-143	
1,1-Dichloroethane	ug/L	ND	50	47.8	96	68-139	
1,1-Dichloroethene	ug/L	ND	50	41.3	83	55-140	
1,2-Dichloroethane	ug/L	ND	50	56.0	112	63-148	
Benzene	ug/L	ND	50	45.8	89	63-141	
Carbon tetrachloride	ug/L	ND	50	43.1	86	54-145	
Chloroform	ug/L	ND	50	50.6	101	67-134	
cis-1,2-Dichloroethene	ug/L	ND	50	49.8	100	65-132	
Ethylbenzene	ug/L	ND	50	39.2	78	44-151	
Methylene chloride	ug/L	ND	50	50.4	101	46-154	
Naphthalene	ug/L	ND	50	37.7	75	44-138	
Tetrachloroethene	ug/L	ND	50	37.1	74	25-146	
Toluene	ug/L	ND	50	43.5	83	59-142	
trans-1,2-Dichloroethene	ug/L	ND	50	49.1	98	60-137	
Trichloroethene	ug/L	ND	50	44.8	90	61-137	
Vinyl chloride	ug/L	ND	50	46.0	92	51-144	
Xylene (Total)	ug/L	ND	150	120	80	44-152	
4-Bromofluorobenzene (S)	%				102	70-126	
Dibromofluoromethane (S)	%				102	80-123	
Toluene-d8 (S)	%				99	80-116	

QUALITY CONTROL DATA

Project: Michigan Meadows

Pace Project No.: 5023501

QC Batch: MSV/14579

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV 5030 Low

Associated Lab Samples: 5023501014

METHOD BLANK: 267414

Matrix: Solid

Associated Lab Samples: 5023501014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	5.0	02/24/09 12:31	
1,1-Dichloroethane	ug/kg	ND	5.0	02/24/09 12:31	
1,1-Dichloroethene	ug/kg	ND	5.0	02/24/09 12:31	
1,2-Dichloroethane	ug/kg	ND	5.0	02/24/09 12:31	
Benzene	ug/kg	ND	5.0	02/24/09 12:31	
Carbon tetrachloride	ug/kg	ND	5.0	02/24/09 12:31	
Chloroform	ug/kg	ND	5.0	02/24/09 12:31	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	02/24/09 12:31	
Ethylbenzene	ug/kg	ND	5.0	02/24/09 12:31	
Methylene chloride	ug/kg	ND	20.0	02/24/09 12:31	
Naphthalene	ug/kg	ND	5.0	02/24/09 12:31	
Tetrachloroethene	ug/kg	ND	5.0	02/24/09 12:31	
Toluene	ug/kg	ND	5.0	02/24/09 12:31	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	02/24/09 12:31	
Trichloroethene	ug/kg	ND	5.0	02/24/09 12:31	
Vinyl chloride	ug/kg	ND	5.0	02/24/09 12:31	
Xylene (Total)	ug/kg	ND	10.0	02/24/09 12:31	
4-Bromofluorobenzene (S)	%	101	61-131	02/24/09 12:31	
Dibromofluoromethane (S)	%	103	80-124	02/24/09 12:31	
Toluene-d8 (S)	%	100	58-145	02/24/09 12:31	

LABORATORY CONTROL SAMPLE: 267415

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	50	40.2	80	61-135	
1,1-Dichloroethane	ug/kg	50	40.1	80	62-132	
1,1-Dichloroethene	ug/kg	50	40.9	82	61-123	
1,2-Dichloroethane	ug/kg	50	42.0	84	62-135	
Benzene	ug/kg	50	41.4	83	76-123	
Carbon tetrachloride	ug/kg	50	38.9	78	54-136	
Chloroform	ug/kg	50	40.2	80	74-123	
cis-1,2-Dichloroethene	ug/kg	50	41.9	84	76-119	
Ethylbenzene	ug/kg	50	41.8	84	78-121	
Methylene chloride	ug/kg	50	36.4	73	30-170	
Naphthalene	ug/kg	50	38.9	78	60-128	
Tetrachloroethene	ug/kg	50	29.4	59	63-117 L0	
Toluene	ug/kg	50	40.4	81	72-123	
trans-1,2-Dichloroethene	ug/kg	50	42.5	85	70-122	
Trichloroethene	ug/kg	50	42.5	85	74-121	
Vinyl chloride	ug/kg	50	51.6	103	50-146	
Xylene (Total)	ug/kg	150	127	84	77-120	

Date: 03/02/2009 11:25 AM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Michigan Meadows

Pace Project No.: 5023501

LABORATORY CONTROL SAMPLE: 267415

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			103	61-131	
Dibromofluoromethane (S)	%			104	80-124	
Toluene-d8 (S)	%			100	58-145	

MATRIX SPIKE SAMPLE: 267416

Parameter	Units	5023531020 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	ND	61.5	39.6	64	27-142	
1,1-Dichloroethane	ug/kg	ND	61.5	47.1	77	31-141	
1,1-Dichloroethene	ug/kg	ND	61.5	46.8	76	23-132	
1,2-Dichloroethane	ug/kg	ND	61.5	49.0	80	30-143	
Benzene	ug/kg	ND	61.5	47.9	78	50-135	
Carbon tetrachloride	ug/kg	ND	61.5	35.3	57	30-130	
Chloroform	ug/kg	ND	61.5	47.7	78	30-136	
cis-1,2-Dichloroethene	ug/kg	ND	61.5	49.3	80	30-141	
Ethylbenzene	ug/kg	ND	61.5	44.0	72	50-150	
Methylene chloride	ug/kg	ND	61.5	43.1	70	30-163	
Naphthalene	ug/kg	13.0	61.5	46.2	54	50-128	
Tetrachloroethene	ug/kg	ND	61.5	29.0	47	40-155	
Toluene	ug/kg	ND	61.5	44.8	73	50-149	
trans-1,2-Dichloroethene	ug/kg	ND	61.5	51.7	84	40-140	
Trichloroethene	ug/kg	ND	61.5	47.7	78	40-153	
Vinyl chloride	ug/kg	ND	61.5	60.8	99	36-137	
Xylene (Total)	ug/kg	ND	185	131	71	50-143	
4-Bromofluorobenzene (S)	%				108	61-131	
Dibromofluoromethane (S)	%				104	80-124	
Toluene-d8 (S)	%				101	58-145	

QUALIFIERS

Project: Michigan Meadows

Pace Project No.: 5023501

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.

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

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

ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

M0 Matrix spike recovery was outside laboratory control limits.

R2 RPD value was outside control limits due to matrix interference



CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: of

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: Mundell	Report To: Leena Lothe	Company Name: Mundell	Attention: Mere Tebbe	Page: 1185085	
Address: 110 S Downey Ave	Copy To: John Mundell	Address: 110 S Downey Ave		REGULATORY AGENCY	
Email To: Indianapolis 46219	Purchase Order No.: 	Purchase Order No.: 		NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐	
Phone: 630-9060	Project Name: Michigan Meadows	Project Name: Phaedra Z.		UST ☐ RORA ☐ OTHER ☐	
Fax: 630-9065	Project Number: M01046	Project Number: 		Site Location	
Requested Due Date/TAT: Standard				STATE: 	

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	SAMPLE ID (A-Z, 0-9 / -)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test ↓	Requested Analysis Filtered (Y/N)												Pace Project No./ Lab I.D.
					COMPOSITE START	COMPOSITE END/GRAB																	
1	SB-9 (24')	DW	WT	G	2/16/09 4:00P		3-7		Unpreserved	Analysis Test ↓													5023501
2	SB-8 (24')	WW	WT	G	2/16/09 4:45P				HCl														001
3	SB-10 (24')	P	WT	G	2/17/09 10:05				NaOH														002
4	DUP	SL	WT	G	2/17/09 10:05				HNO ₃														003
5	SB-9 (6-7')	OL	WP	G	2/16/09 3:45P		1-7		H ₂ SO ₄														004
6	SB-9 (15-16')	AR	WP	G	3:50P				Unpreserved														005
7	SB-9 (12-13')	TS	WP	G	5:00P																		006
8	SB-8 (5-6')	OT	WP	G	5:02P																		007
9	SB-8 (12-13')			G	5:10P																		008
10	SB-8 (15-16')			G	2/17 10:20																		010
11	SB-10 (4-6')			G	10:25																		011
12	SB-10 (8-10')			G	10:25																		012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
shortlist of vocs.	Leena Lothe	2/19/09	10:12	Leena Lothe	2/19/09	6:12	
	Leena Lothe	2/19/09	13:33	Leena Lothe	2/19/09	13:33	Y N

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on	Custody	Sealed Cooler	Samples Intact
ORIGINAL						
PRINT Name of SAMPLER: LEENA LOTHE						
SIGNATURE of SAMPLER: Leena Lothe						
DATE Signed (MM/DD/YYYY): 2/19/09						

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: Mundell	Report To: Leena Corne	Company Name: Mende Tebbel	Attention: Mende Tebbel	Page: _____	of _____
Address: _____	Copy To: John Mundell	Address: _____	Company Name: _____	1185086	
Email To: _____	Purchase Order No.: _____	Address: _____	Address: _____	REGULATORY AGENCY	
Phone: _____	Project Name: Michigan Meadows	Pace Quote Reference: _____	Pace Project Manager: _____	☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER	☐ UST ☐ RCRA ☐ OTHER _____
Fax: _____	Project Number: MOJO 06	Pace Profile #: _____	Site Location	STATE: _____	
Requested Due Date/TAT: _____					

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test ↑ Y/N ↓	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
			COMPOSITE START	COMPOSITE END/GRAB								
1	SB-10 (14-16')	DW Drinking Water			G	54		1	Unpreserved	✓		001 013
2	SB-15 (4-6)	WT Water						1	NaOH			N008 014
3	SB-15 (8-10)	WW Waste Water						1	HCl			003 015
4	SB-15 (12-14)	P Product						1	HNO ₃			016
5	SB-16 (4-6)	SL Soil/Solid						1	H ₂ SO ₄			017
6	SB-16 (8-10)	Oil						1	Unpreserved			018
7	SB-16 (12-14)	Wipe						1	Other			019
8	SB-17 (4-6)	AR Air						1	Other			020
9	SB-17 (10-12)	OT Other						1	Other			021
10	SB-17 (12-14)							1	Other			022
11	Trip Blank							1	Other			023

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	TEMP IN °C	RECEIVED ON ICE (Y/N)	CUSTODY SEALED COOLER (Y/N)	SAMPLE CONDITIONS
SHORTLIST VIDS please.	<i>[Signature]</i>	2/19/09	10:12	<i>[Signature]</i>	2/19/09	10:12				
		2/19/09	13:33	<i>[Signature]</i>	2/19/09	13:33	38	Y	Y	Y
WI-33/33 ORIGINAL <i>[Signature]</i> SAMPLER NAME AND SIGNATURE PRINT NAME of SAMPLER: LEENA LOTHE SIGNATURE of SAMPLER: <i>[Signature]</i> DATE Signed (MM/DD/YY): 2/19/09										

***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

Client Name: Mundell

Project # 5023501

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

Tracking #: _____

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

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

Thermometer Used 023456

Type of Ice: Wet Blue None

☐ Samples on ice, cooling process has begun

Cooler Temperature 38c

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 2/19/09

Temp should be above freezing to 6°C

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.
Samples Arrived within Hold Time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time Analysis (<72hr):	☐ Yes ☐ No ☒ N/A	6.
Rush Turn Around Time Requested:	☐ Yes ☐ No ☒ N/A	7.
Sufficient Volume:	☒ Yes ☐ No ☐ N/A	8.
Correct Containers Used:	☒ Yes ☐ No ☐ N/A	9.
-Pace Containers Used:	☒ Yes ☐ No ☐ N/A	
Containers Intact:	☒ Yes ☐ No ☐ N/A	10.
Filtered volume received for Dissolved tests	☐ Yes ☐ No ☒ N/A	11.
Sample Labels match COC:	☒ Yes ☐ No ☐ N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>WT/SL</u>		
All containers needing preservation have been checked.	☐ Yes ☐ No ☒ N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes ☐ No ☒ N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☒ Yes ☐ No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	☐ Yes ☐ No ☒ N/A	14.
Headspace in VOA Vials (>6mm):	☐ Yes ☒ No ☐ N/A	15.
Trip Blank Present:	☒ Yes ☐ No ☐ N/A	16.
Trip Blank Custody Seals Present	☒ Yes ☐ No ☐ N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: 2/19/09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

March 30, 2009

Leena Lothe
Mundell & Associates, Inc.
110 South Downey Avenue
Indianapolis, IN 46219

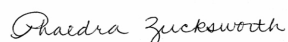
RE: Project: M01046 / Michigan Plaza
Pace Project No.: 5024288

Dear Leena Lothe:

Enclosed are the analytical results for sample(s) received by the laboratory on March 17, 2009. The results relate only to the samples included in this report. 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,



Phaedra Zucksworth

phaedra.zucksworth@pacelabs.com
Project Manager

Illinois/NELAC Certification #: 100418
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Ohio VAP: CL0065
Pennsylvania: 68-00791
West Virginia Certification #: 330

Enclosures

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: M01046 / Michigan Plaza

Pace Project No.: 5024288

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5024288001	MMW-1S	Water	03/16/09 11:50	03/17/09 09:35
5024288002	MMW-8S	Water	03/16/09 14:10	03/17/09 09:35
5024288003	MMW-9S	Water	03/16/09 11:28	03/17/09 09:35
5024288004	MMW-10S	Water	03/16/09 10:55	03/17/09 09:35
5024288005	MMW-11S	Water	03/16/09 13:38	03/17/09 09:35
5024288006	MMW-11D	Water	03/16/09 13:20	03/17/09 09:35
5024288007	MMW-12S	Water	03/16/09 12:22	03/17/09 09:35
5024288008	TRIP BLANK	Water	03/16/09 08:00	03/17/09 09:35
5024288009	MMW-13D	Water	03/16/09 12:55	03/17/09 09:35

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: M01046 / Michigan Plaza

Pace Project No.: 5024288

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5024288001	MMW-1S	ASTM D516-90,02	TPD	1
		EPA 353.2	DDM	1
		EPA 8260	AMV	20
		SM 2340B	FRW	1
5024288002	MMW-8S	EPA 8260	AMV	20
5024288003	MMW-9S	ASTM D516-90,02	TPD	1
		EPA 353.2	DDM	1
		EPA 8260	AMV	20
5024288004	MMW-10S	EPA 8260	AMV	20
5024288005	MMW-11S	ASTM D516-90,02	TPD	1
		EPA 353.2	DDM	1
		EPA 8260	AMV	20
5024288006	MMW-11D	EPA 8260	AMV	20
5024288007	MMW-12S	EPA 8260	AMV	20
5024288008	TRIP BLANK	EPA 8260	AMV	20
5024288009	MMW-13D	EPA 8260	AMV	20

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: M01046 / Michigan Plaza

Pace Project No.: 5024288

Sample: MMW-1S		Lab ID: 5024288001	Collected: 03/16/09 11:50	Received: 03/17/09 09:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2340B Hardness, Total (Calc.)		Analytical Method: SM 2340B						
Total Hardness	530	mg/L	1.0	1		03/26/09 11:22		
8260 MSV		Analytical Method: EPA 8260						
Benzene	ND	ug/L	5.0	1		03/21/09 03:30	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/21/09 03:30	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/21/09 03:30	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/21/09 03:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/21/09 03:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/21/09 03:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/21/09 03:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/21/09 03:30	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/21/09 03:30	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		03/21/09 03:30	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/21/09 03:30	91-20-3	
Tetrachloroethene	199	ug/L	5.0	1		03/21/09 03:30	127-18-4	
Toluene	ND	ug/L	5.0	1		03/21/09 03:30	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/21/09 03:30	71-55-6	
Trichloroethene	11.3	ug/L	5.0	1		03/21/09 03:30	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		03/21/09 03:30	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/21/09 03:30	1330-20-7	
Dibromofluoromethane (S)	107	%	80-123	1		03/21/09 03:30	1868-53-7	
4-Bromofluorobenzene (S)	99	%	70-126	1		03/21/09 03:30	460-00-4	
Toluene-d8 (S)	103	%	80-116	1		03/21/09 03:30	2037-26-5	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2						
Nitrogen, Nitrate	7.3	mg/L	0.10	1		03/18/09 10:30		
ASTM D516-9002 Sulfate Water		Analytical Method: ASTM D516-90,02						
Sulfate	67.6	mg/L	25.0	5		03/18/09 13:37	14808-79-8	

ANALYTICAL RESULTS

Project: M01046 / Michigan Plaza

Pace Project No.: 5024288

Sample: MMW-8S		Lab ID: 5024288002	Collected: 03/16/09 14:10	Received: 03/17/09 09:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Benzene	ND	ug/L	5.0	1		03/23/09 13:17	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/23/09 13:17	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/23/09 13:17	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/23/09 13:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/23/09 13:17	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/23/09 13:17	75-35-4	
cis-1,2-Dichloroethene	95.0	ug/L	5.0	1		03/23/09 13:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/23/09 13:17	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/23/09 13:17	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		03/23/09 13:17	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/23/09 13:17	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/23/09 13:17	127-18-4	
Toluene	ND	ug/L	5.0	1		03/23/09 13:17	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/23/09 13:17	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/23/09 13:17	79-01-6	
Vinyl chloride	348	ug/L	20.0	10		03/23/09 13:52	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/23/09 13:17	1330-20-7	
Dibromofluoromethane (S)	107	%	80-123	1		03/23/09 13:17	1868-53-7	
4-Bromofluorobenzene (S)	102	%	70-126	1		03/23/09 13:17	460-00-4	
Toluene-d8 (S)	103	%	80-116	1		03/23/09 13:17	2037-26-5	

ANALYTICAL RESULTS

Project: M01046 / Michigan Plaza

Pace Project No.: 5024288

Sample: MMW-9S		Lab ID: 5024288003	Collected: 03/16/09 11:28	Received: 03/17/09 09:35	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		03/23/09 14:26	71-43-2	1d,D4
Carbon tetrachloride	ND	ug/L	50.0	10		03/23/09 14:26	56-23-5	
Chloroform	ND	ug/L	50.0	10		03/23/09 14:26	67-66-3	
1,1-Dichloroethane	ND	ug/L	50.0	10		03/23/09 14:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	50.0	10		03/23/09 14:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	50.0	10		03/23/09 14:26	75-35-4	
cis-1,2-Dichloroethene	7490	ug/L	500	100		03/23/09 15:00	156-59-2	
trans-1,2-Dichloroethene	73.8	ug/L	50.0	10		03/23/09 14:26	156-60-5	
Ethylbenzene	ND	ug/L	50.0	10		03/23/09 14:26	100-41-4	
Methylene chloride	ND	ug/L	50.0	10		03/23/09 14:26	75-09-2	
Naphthalene	ND	ug/L	50.0	10		03/23/09 14:26	91-20-3	
Tetrachloroethene	ND	ug/L	50.0	10		03/23/09 14:26	127-18-4	2d
Toluene	ND	ug/L	50.0	10		03/23/09 14:26	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	50.0	10		03/23/09 14:26	71-55-6	
Trichloroethene	ND	ug/L	50.0	10		03/23/09 14:26	79-01-6	1d
Vinyl chloride	1800	ug/L	20.0	10		03/23/09 14:26	75-01-4	
Xylene (Total)	ND	ug/L	100	10		03/23/09 14:26	1330-20-7	
Dibromofluoromethane (S)	107	%	80-123	10		03/23/09 14:26	1868-53-7	
4-Bromofluorobenzene (S)	101	%	70-126	10		03/23/09 14:26	460-00-4	
Toluene-d8 (S)	102	%	80-116	10		03/23/09 14:26	2037-26-5	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2						
Nitrogen, Nitrate	ND	mg/L	0.10	1		03/18/09 10:29		
ASTM D516-9002 Sulfate Water		Analytical Method: ASTM D516-90.02						
Sulfate	74.2	mg/L	25.0	5		03/18/09 13:37	14808-79-8	

ANALYTICAL RESULTS

Project: M01046 / Michigan Plaza

Pace Project No.: 5024288

Sample: MMW-10S		Lab ID: 5024288004	Collected: 03/16/09 10:55	Received: 03/17/09 09:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Benzene	ND	ug/L	5.0	1		03/21/09 04:38	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/21/09 04:38	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/21/09 04:38	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/21/09 04:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/21/09 04:38	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/21/09 04:38	75-35-4	
cis-1,2-Dichloroethene	302	ug/L	5.0	1		03/21/09 04:38	156-59-2	E
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/21/09 04:38	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/21/09 04:38	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		03/21/09 04:38	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/21/09 04:38	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/21/09 04:38	127-18-4	
Toluene	ND	ug/L	5.0	1		03/21/09 04:38	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/21/09 04:38	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/21/09 04:38	79-01-6	
Vinyl chloride	114	ug/L	2.0	1		03/21/09 04:38	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/21/09 04:38	1330-20-7	
Dibromofluoromethane (S)	112	%	80-123	1		03/21/09 04:38	1868-53-7	
4-Bromofluorobenzene (S)	103	%	70-126	1		03/21/09 04:38	460-00-4	
Toluene-d8 (S)	103	%	80-116	1		03/21/09 04:38	2037-26-5	

ANALYTICAL RESULTS

Project: M01046 / Michigan Plaza

Pace Project No.: 5024288

Sample: MMW-11S		Lab ID: 5024288005	Collected: 03/16/09 13:38	Received: 03/17/09 09:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Benzene	ND	ug/L	5.0	1		03/23/09 15:34	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/23/09 15:34	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/23/09 15:34	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/23/09 15:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/23/09 15:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/23/09 15:34	75-35-4	
cis-1,2-Dichloroethene	37.6	ug/L	5.0	1		03/23/09 15:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/23/09 15:34	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/23/09 15:34	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		03/23/09 15:34	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/23/09 15:34	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/23/09 15:34	127-18-4	
Toluene	ND	ug/L	5.0	1		03/23/09 15:34	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/23/09 15:34	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/23/09 15:34	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		03/23/09 15:34	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/23/09 15:34	1330-20-7	
Dibromofluoromethane (S)	114	%	80-123	1		03/23/09 15:34	1868-53-7	
4-Bromofluorobenzene (S)	101	%	70-126	1		03/23/09 15:34	460-00-4	
Toluene-d8 (S)	102	%	80-116	1		03/23/09 15:34	2037-26-5	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2						
Nitrogen, Nitrate	5.6	mg/L	0.10	1		03/18/09 10:31		
ASTM D516-9002 Sulfate Water		Analytical Method: ASTM D516-90.02						
Sulfate	187	mg/L	50.0	10		03/18/09 13:37	14808-79-8	

ANALYTICAL RESULTS

Project: M01046 / Michigan Plaza

Pace Project No.: 5024288

Sample: MMW-11D		Lab ID: 5024288006	Collected: 03/16/09 13:20	Received: 03/17/09 09:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Benzene	ND	ug/L	5.0	1		03/26/09 18:58	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/26/09 18:58	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/26/09 18:58	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/26/09 18:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/26/09 18:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/26/09 18:58	75-35-4	
cis-1,2-Dichloroethene	288	ug/L	50.0	10		03/26/09 19:32	156-59-2	
trans-1,2-Dichloroethene	20.1	ug/L	5.0	1		03/26/09 18:58	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/26/09 18:58	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		03/26/09 18:58	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/26/09 18:58	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/26/09 18:58	127-18-4	
Toluene	ND	ug/L	5.0	1		03/26/09 18:58	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/26/09 18:58	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/26/09 18:58	79-01-6	
Vinyl chloride	2.2	ug/L	2.0	1		03/26/09 18:58	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/26/09 18:58	1330-20-7	
Dibromofluoromethane (S)	100	%	80-123	1		03/26/09 18:58	1868-53-7	
4-Bromofluorobenzene (S)	102	%	70-126	1		03/26/09 18:58	460-00-4	
Toluene-d8 (S)	102	%	80-116	1		03/26/09 18:58	2037-26-5	

ANALYTICAL RESULTS

Project: M01046 / Michigan Plaza

Pace Project No.: 5024288

Sample: MMW-12S		Lab ID: 5024288007	Collected: 03/16/09 12:22	Received: 03/17/09 09:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Benzene	ND ug/L		5.0	1		03/23/09 17:15	71-43-2	
Carbon tetrachloride	ND ug/L		5.0	1		03/23/09 17:15	56-23-5	
Chloroform	ND ug/L		5.0	1		03/23/09 17:15	67-66-3	
1,1-Dichloroethane	ND ug/L		5.0	1		03/23/09 17:15	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		03/23/09 17:15	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		03/23/09 17:15	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		03/23/09 17:15	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		03/23/09 17:15	156-60-5	
Ethylbenzene	ND ug/L		5.0	1		03/23/09 17:15	100-41-4	
Methylene chloride	ND ug/L		5.0	1		03/23/09 17:15	75-09-2	
Naphthalene	ND ug/L		5.0	1		03/23/09 17:15	91-20-3	
Tetrachloroethene	ND ug/L		5.0	1		03/23/09 17:15	127-18-4	
Toluene	ND ug/L		5.0	1		03/23/09 17:15	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		03/23/09 17:15	71-55-6	
Trichloroethene	ND ug/L		5.0	1		03/23/09 17:15	79-01-6	
Vinyl chloride	ND ug/L		2.0	1		03/23/09 17:15	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		03/23/09 17:15	1330-20-7	
Dibromofluoromethane (S)	116 %		80-123	1		03/23/09 17:15	1868-53-7	
4-Bromofluorobenzene (S)	100 %		70-126	1		03/23/09 17:15	460-00-4	
Toluene-d8 (S)	100 %		80-116	1		03/23/09 17:15	2037-26-5	

ANALYTICAL RESULTS

Project: M01046 / Michigan Plaza

Pace Project No.: 5024288

Sample: TRIP BLANK		Lab ID: 5024288008	Collected: 03/16/09 08:00	Received: 03/17/09 09:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Benzene	ND ug/L		5.0	1		03/21/09 04:04	71-43-2	
Carbon tetrachloride	ND ug/L		5.0	1		03/21/09 04:04	56-23-5	
Chloroform	ND ug/L		5.0	1		03/21/09 04:04	67-66-3	
1,1-Dichloroethane	ND ug/L		5.0	1		03/21/09 04:04	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		03/21/09 04:04	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		03/21/09 04:04	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		03/21/09 04:04	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		03/21/09 04:04	156-60-5	
Ethylbenzene	ND ug/L		5.0	1		03/21/09 04:04	100-41-4	
Methylene chloride	ND ug/L		5.0	1		03/21/09 04:04	75-09-2	
Naphthalene	ND ug/L		5.0	1		03/21/09 04:04	91-20-3	
Tetrachloroethene	ND ug/L		5.0	1		03/21/09 04:04	127-18-4	
Toluene	ND ug/L		5.0	1		03/21/09 04:04	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		03/21/09 04:04	71-55-6	
Trichloroethene	ND ug/L		5.0	1		03/21/09 04:04	79-01-6	
Vinyl chloride	ND ug/L		2.0	1		03/21/09 04:04	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		03/21/09 04:04	1330-20-7	
Dibromofluoromethane (S)	112 %		80-123	1		03/21/09 04:04	1868-53-7	
4-Bromofluorobenzene (S)	100 %		70-126	1		03/21/09 04:04	460-00-4	
Toluene-d8 (S)	101 %		80-116	1		03/21/09 04:04	2037-26-5	

ANALYTICAL RESULTS

Project: M01046 / Michigan Plaza

Pace Project No.: 5024288

Sample: MMW-13D		Lab ID: 5024288009	Collected: 03/16/09 12:55	Received: 03/17/09 09:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Benzene	ND	ug/L	5.0	1		03/23/09 17:49	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/23/09 17:49	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/23/09 17:49	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/23/09 17:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/23/09 17:49	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/23/09 17:49	75-35-4	
cis-1,2-Dichloroethene	699	ug/L	50.0	10		03/24/09 18:29	156-59-2	
trans-1,2-Dichloroethene	6.6	ug/L	5.0	1		03/23/09 17:49	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/23/09 17:49	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		03/23/09 17:49	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/23/09 17:49	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/23/09 17:49	127-18-4	
Toluene	ND	ug/L	5.0	1		03/23/09 17:49	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/23/09 17:49	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/23/09 17:49	79-01-6	
Vinyl chloride	25.4	ug/L	2.0	1		03/23/09 17:49	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/23/09 17:49	1330-20-7	
Dibromofluoromethane (S)	115	%	80-123	1		03/23/09 17:49	1868-53-7	
4-Bromofluorobenzene (S)	98	%	70-126	1		03/23/09 17:49	460-00-4	
Toluene-d8 (S)	101	%	80-116	1		03/23/09 17:49	2037-26-5	

QUALITY CONTROL DATA

Project: M01046 / Michigan Plaza

Pace Project No.: 5024288

QC Batch:	WETA/3375	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples:	5024288001, 5024288003, 5024288005		

METHOD BLANK: 275809 Matrix: Water

Associated Lab Samples: 5024288001, 5024288003, 5024288005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	03/18/09 10:26	

LABORATORY CONTROL SAMPLE: 275810

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	0.93	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 275811 275812

Parameter	Units	5024311001 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	0.71	1	1	1.6	1.7	94	95	90-110	.8	20	

QUALITY CONTROL DATA

Project: M01046 / Michigan Plaza

Pace Project No.: 5024288

QC Batch:	WETA/3377	Analysis Method:	ASTM D516-90,02
QC Batch Method:	ASTM D516-90,02	Analysis Description:	ASTM D516-9002 Sulfate Water
Associated Lab Samples:	5024288001, 5024288003, 5024288005		

METHOD BLANK: 276172 Matrix: Water

Associated Lab Samples: 5024288001, 5024288003, 5024288005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	5.0	03/18/09 13:37	

LABORATORY CONTROL SAMPLE: 276173

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	18.3	92	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 276174 276175

Parameter	Units	5024125001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	72.5	100	100	175	181	102	109	75-125	3	20	

QUALITY CONTROL DATA

Project: M01046 / Michigan Plaza

Pace Project No.: 5024288

QC Batch: MSV/15118 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5024288001, 5024288004, 5024288008

METHOD BLANK: 278236 Matrix: Water

Associated Lab Samples: 5024288001, 5024288004, 5024288008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	03/20/09 19:36	
1,1-Dichloroethane	ug/L	ND	5.0	03/20/09 19:36	
1,1-Dichloroethene	ug/L	ND	5.0	03/20/09 19:36	
1,2-Dichloroethane	ug/L	ND	5.0	03/20/09 19:36	
Benzene	ug/L	ND	5.0	03/20/09 19:36	
Carbon tetrachloride	ug/L	ND	5.0	03/20/09 19:36	
Chloroform	ug/L	ND	5.0	03/20/09 19:36	
cis-1,2-Dichloroethene	ug/L	ND	5.0	03/20/09 19:36	
Ethylbenzene	ug/L	ND	5.0	03/20/09 19:36	
Methylene chloride	ug/L	ND	5.0	03/20/09 19:36	
Naphthalene	ug/L	ND	5.0	03/20/09 19:36	
Tetrachloroethene	ug/L	ND	5.0	03/20/09 19:36	
Toluene	ug/L	ND	5.0	03/20/09 19:36	
trans-1,2-Dichloroethene	ug/L	ND	5.0	03/20/09 19:36	
Trichloroethene	ug/L	ND	5.0	03/20/09 19:36	
Vinyl chloride	ug/L	ND	2.0	03/20/09 19:36	
Xylene (Total)	ug/L	ND	10.0	03/20/09 19:36	
4-Bromofluorobenzene (S)	%	101	70-126	03/20/09 19:36	
Dibromofluoromethane (S)	%	109	80-123	03/20/09 19:36	
Toluene-d8 (S)	%	101	80-116	03/20/09 19:36	

LABORATORY CONTROL SAMPLE: 278237

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	47.1	94	69-136	
1,1-Dichloroethane	ug/L	50	48.9	98	67-133	
1,1-Dichloroethene	ug/L	50	42.4	85	63-128	
1,2-Dichloroethane	ug/L	50	54.7	109	69-139	
Benzene	ug/L	50	47.7	95	78-127	
Carbon tetrachloride	ug/L	50	51.5	103	62-143	
Chloroform	ug/L	50	47.0	94	74-131	
cis-1,2-Dichloroethene	ug/L	50	51.0	102	74-128	
Ethylbenzene	ug/L	50	47.6	95	81-126	
Methylene chloride	ug/L	50	52.5	105	32-164	
Naphthalene	ug/L	50	38.8	78	61-135	
Tetrachloroethene	ug/L	50	37.8	76	60-119	
Toluene	ug/L	50	48.8	98	75-129	
trans-1,2-Dichloroethene	ug/L	50	52.1	104	71-126	
Trichloroethene	ug/L	50	50.1	100	74-130	
Vinyl chloride	ug/L	50	44.5	89	55-141	
Xylene (Total)	ug/L	150	147	98	76-132	

Date: 03/30/2009 03:50 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: M01046 / Michigan Plaza

Pace Project No.: 5024288

LABORATORY CONTROL SAMPLE: 278237

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			99	70-126	
Dibromofluoromethane (S)	%			100	80-123	
Toluene-d8 (S)	%			99	80-116	

MATRIX SPIKE SAMPLE: 278238

Parameter	Units	5024288004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	50	46.2	92	64-143	
1,1-Dichloroethane	ug/L	ND	50	45.8	92	68-139	
1,1-Dichloroethene	ug/L	ND	50	44.6	89	55-140	
1,2-Dichloroethane	ug/L	ND	50	50.2	100	63-148	
Benzene	ug/L	ND	50	44.1	88	63-141	
Carbon tetrachloride	ug/L	ND	50	47.4	95	54-145	
Chloroform	ug/L	ND	50	43.6	87	67-134	
cis-1,2-Dichloroethene	ug/L	302	50	313	22	65-132	
Ethylbenzene	ug/L	ND	50	42.8	86	44-151	
Methylene chloride	ug/L	ND	50	50.3	101	46-154	
Naphthalene	ug/L	ND	50	25.1	50	44-138	
Tetrachloroethene	ug/L	ND	50	36.3	66	25-146	
Toluene	ug/L	ND	50	44.8	90	59-142	
trans-1,2-Dichloroethene	ug/L	ND	50	58.3	111	60-137	
Trichloroethene	ug/L	ND	50	47.7	95	61-137	
Vinyl chloride	ug/L	114	50	158	87	51-144	
Xylene (Total)	ug/L	ND	150	131	87	44-152	
4-Bromofluorobenzene (S)	%				98	70-126	
Dibromofluoromethane (S)	%				102	80-123	
Toluene-d8 (S)	%				99	80-116	

QUALITY CONTROL DATA

Project: M01046 / Michigan Plaza

Pace Project No.: 5024288

QC Batch: MSV/15138 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5024288002, 5024288003, 5024288005, 5024288006, 5024288007, 5024288009

METHOD BLANK: 278658 Matrix: Water
Associated Lab Samples: 5024288002, 5024288003, 5024288005, 5024288007, 5024288009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	03/23/09 12:43	
1,1-Dichloroethane	ug/L	ND	5.0	03/23/09 12:43	
1,1-Dichloroethene	ug/L	ND	5.0	03/23/09 12:43	
1,2-Dichloroethane	ug/L	ND	5.0	03/23/09 12:43	
Benzene	ug/L	ND	5.0	03/23/09 12:43	
Carbon tetrachloride	ug/L	ND	5.0	03/23/09 12:43	
Chloroform	ug/L	ND	5.0	03/23/09 12:43	
cis-1,2-Dichloroethene	ug/L	ND	5.0	03/23/09 12:43	
Ethylbenzene	ug/L	ND	5.0	03/23/09 12:43	
Methylene chloride	ug/L	ND	5.0	03/23/09 12:43	
Naphthalene	ug/L	ND	5.0	03/23/09 12:43	
Tetrachloroethene	ug/L	ND	5.0	03/23/09 12:43	
Toluene	ug/L	ND	5.0	03/23/09 12:43	
trans-1,2-Dichloroethene	ug/L	ND	5.0	03/23/09 12:43	
Trichloroethene	ug/L	ND	5.0	03/23/09 12:43	
Vinyl chloride	ug/L	ND	2.0	03/23/09 12:43	
Xylene (Total)	ug/L	ND	10.0	03/23/09 12:43	
4-Bromofluorobenzene (S)	%	102	70-126	03/23/09 12:43	
Dibromofluoromethane (S)	%	109	80-123	03/23/09 12:43	
Toluene-d8 (S)	%	103	80-116	03/23/09 12:43	

LABORATORY CONTROL SAMPLE: 278659

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.0	104	69-136	
1,1-Dichloroethane	ug/L	50	52.9	106	67-133	
1,1-Dichloroethene	ug/L	50	50.7	101	63-128	
1,2-Dichloroethane	ug/L	50	58.0	116	69-139	
Benzene	ug/L	50	51.2	102	78-127	
Carbon tetrachloride	ug/L	50	56.3	113	62-143	
Chloroform	ug/L	50	50.2	100	74-131	
cis-1,2-Dichloroethene	ug/L	50	54.0	108	74-128	
Ethylbenzene	ug/L	50	49.8	100	81-126	
Methylene chloride	ug/L	50	57.7	115	32-164	
Naphthalene	ug/L	50	36.8	74	61-135	
Tetrachloroethene	ug/L	50	40.2	80	60-119	
Toluene	ug/L	50	52.0	104	75-129	
trans-1,2-Dichloroethene	ug/L	50	59.6	119	71-126	
Trichloroethene	ug/L	50	53.8	108	74-130	
Vinyl chloride	ug/L	50	61.6	123	55-141	
Xylene (Total)	ug/L	150	152	101	76-132	

Date: 03/30/2009 03:50 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: M01046 / Michigan Plaza

Pace Project No.: 5024288

LABORATORY CONTROL SAMPLE: 278659

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			100	70-126	
Dibromofluoromethane (S)	%			101	80-123	
Toluene-d8 (S)	%			100	80-116	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 278660 278661

Parameter	Units	5024380006	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		Result	Conc.	Conc.	Result	Result				RPD	
1,1,1-Trichloroethane	ug/L	ND	50	50	54.3	57.1	109	114	64-143	5	20
1,1-Dichloroethane	ug/L	ND	50	50	53.3	56.1	107	112	68-139	5	20
1,1-Dichloroethene	ug/L	ND	50	50	55.4	58.7	111	117	55-140	6	20
1,2-Dichloroethane	ug/L	ND	50	50	57.7	59.0	115	118	63-148	2	20
Benzene	ug/L	ND	50	50	51.4	53.2	103	106	63-141	3	20
Carbon tetrachloride	ug/L	ND	50	50	57.8	60.5	116	121	54-145	4	20
Chloroform	ug/L	ND	50	50	51.7	53.0	103	106	67-134	3	20
cis-1,2-Dichloroethene	ug/L	ND	50	50	55.5	58.1	111	116	65-132	4	20
Ethylbenzene	ug/L	ND	50	50	49.8	51.0	97	100	44-151	2	20
Methylene chloride	ug/L	ND	50	50	60.3	61.0	121	122	46-154	1	20
Naphthalene	ug/L	ND	50	50	25.2	26.0	50	52	44-138	3	20
Tetrachloroethene	ug/L	ND	50	50	40.3	42.5	75	79	25-146	5	20
Toluene	ug/L	ND	50	50	51.1	53.2	102	106	59-142	4	20
trans-1,2-Dichloroethene	ug/L	ND	50	50	63.8	65.1	128	130	60-137	2	20
Trichloroethene	ug/L	ND	50	50	54.9	56.0	110	112	61-137	2	20
Vinyl chloride	ug/L	ND	50	50	68.6	72.5	137	145	51-144	6	20
Xylene (Total)	ug/L	ND	150	150	152	156	101	104	44-152	3	20
4-Bromofluorobenzene (S)	%						102	98	70-126		20
Dibromofluoromethane (S)	%						106	104	80-123		20
Toluene-d8 (S)	%						99	99	80-116		20

QUALIFIERS

Project: M01046 / Michigan Plaza

Pace Project No.: 5024288

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.

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

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

ANALYTE QUALIFIERS

1d	evaluated to 5 ug/L per MDL AMV 3-24-09
2d	evaluated to 5.8 ug/L per MDL AMV 3-24-09
D4	Sample was diluted due to the presence of high levels of target analytes.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: Mundell & Associates INC.	Report To: Leona Lott	Attention: Mark T. Hille	Page: 1 of 1		
Address: 110 S. Downway Ave	Copy To:	Company Name: Mundell	1247703		
Tripps, IN 46219		Address:	REGULATORY AGENCY		
Email To:	Purchase Order No.:		☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER		
Phone: 317-430-9060	Project Name: Michigan Plaza	Pace Quote Reference:	Site Location		
Fax: 317-430-9065	Manager:		STATE: IN		
Requested Due Date/TAT: 2 wks	Project Number: MA1046	Pace Profile #:			

[illegible]

*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

Client Name: Mundell & Aggo

Project # 5024288

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

Tracking #: _____

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

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

Thermometer Used 123456

Type of Ice: Wet Blue None

☐ Samples on ice, cooling process has begun

Cooler Temperature 2.3°C

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 3/17/09 22

Temp should be above freezing to 6°C

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.
Samples Arrived within Hold Time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time Analysis (<72hr):	☒ Yes ☐ No ☐ N/A	6.
Rush Turn Around Time Requested:	☐ Yes ☐ No ☒ N/A	7.
Sufficient Volume:	☒ Yes ☐ No ☐ N/A	8.
Correct Containers Used:	☒ Yes ☐ No ☐ N/A	9.
-Pace Containers Used:	☒ Yes ☐ No ☐ N/A	
Containers Intact:	☒ Yes ☐ No ☐ N/A	10.
Filtered volume received for Dissolved tests	☐ Yes ☐ No ☒ N/A	11.
Sample Labels match COC:	☒ Yes ☐ No ☐ N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>Water</u>		
All containers needing preservation have been checked.	☒ Yes ☐ No ☐ N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☒ Yes ☐ No ☐ N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐ Yes ☐ No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	☐ Yes ☐ No ☒ N/A	14.
Headspace in VOA Vials (>6mm):	☒ Yes ☐ No ☐ N/A	15. <u>3 TB w/ head space.</u>
Trip Blank Present:	☒ Yes ☐ No ☐ N/A	16.
Trip Blank Custody Seals Present	☒ Yes ☐ No ☐ N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: (Signature)

Date: 3/17/09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

March 30, 2009

Leena Lothe
Mundell & Associates, Inc.
110 South Downey Avenue
Indianapolis, IN 46219

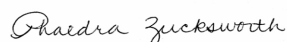
RE: Project: M01046 / Michigan Plaza
Pace Project No.: 5024368

Dear Leena Lothe:

Enclosed are the analytical results for sample(s) received by the laboratory on March 18, 2009. The results relate only to the samples included in this report. 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,



Phaedra Zucksworth

phaedra.zucksworth@pacelabs.com
Project Manager

Illinois/NELAC Certification #: 100418
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Ohio VAP: CL0065
Pennsylvania: 68-00791
West Virginia Certification #: 330

Enclosures

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: M01046 / Michigan Plaza

Pace Project No.: 5024368

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5024368001	MW-168D	Water	03/17/09 10:00	03/18/09 11:10
5024368002	MMW-P-09S	Water	03/17/09 10:40	03/18/09 11:10
5024368003	MMW-P-09D	Water	03/17/09 11:05	03/18/09 11:10
5024368004	MMW-C-02	Water	03/17/09 11:25	03/18/09 11:10
5024368005	MMW-C-01	Water	03/17/09 11:45	03/18/09 11:10
5024368006	MMW-P-02	Water	03/17/09 12:15	03/18/09 11:10
5024368007	MW-P-03S	Water	03/17/09 12:35	03/18/09 11:10
5024368008	MW-P-03D	Water	03/17/09 12:45	03/18/09 11:10
5024368009	MW-P-05	Water	03/17/09 13:20	03/18/09 11:10
5024368010	MW-P-06	Water	03/17/09 13:40	03/18/09 11:10
5024368011	MW-P-10S	Water	03/17/09 14:10	03/18/09 11:10
5024368012	MW-P-10D	Water	03/17/09 14:30	03/18/09 11:10
5024368013	MW-P-08	Water	03/17/09 15:00	03/18/09 11:10
5024368014	MW-P-07	Water	03/17/09 15:20	03/18/09 11:10
5024368015	MW-P-01	Water	03/17/09 15:50	03/18/09 11:10
5024368016	DUP 1	Water	03/17/09 08:00	03/18/09 11:10
5024368017	DUP 2	Water	03/17/09 08:00	03/18/09 11:10
5024368018	TB	Water	03/17/09 08:00	03/18/09 11:10

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SAMPLE ANALYTE COUNT

Project: M01046 / Michigan Plaza

Pace Project No.: 5024368

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5024368001	MW-168D	ASTM D516-90,02	TPD	1
		EPA 353.2	CLS	1
		EPA 8260	SLB	20
5024368002	MMW-P-09S	ASTM D516-90,02	TPD	1
		EPA 353.2	CLS	1
		EPA 8260	SLB	20
5024368003	MMW-P-09D	EPA 8260	SLB	20
5024368004	MMW-C-02	EPA 8260	SLB	20
5024368005	MMW-C-01	EPA 8260	SLB	19
5024368006	MMW-P-02	EPA 8260	SLB	20
5024368007	MW-P-03S	ASTM D516-90,02	TPD	1
		EPA 353.2	CLS	1
		EPA 8260	SLB	20
		SM 2340B	FRW	1
5024368008	MW-P-03D	ASTM D516-90,02	TPD	1
		EPA 353.2	CLS	1
		EPA 8260	SLB	20
5024368009	MW-P-05	EPA 8260	SLB	20
5024368010	MW-P-06	ASTM D516-90,02	TPD	1
		EPA 353.2	CLS	1
		EPA 8260	SLB	20
5024368011	MW-P-10S	ASTM D516-90,02	TPD	1
		EPA 353.2	CLS	1
		EPA 8260	SLB	20
5024368012	MW-P-10D	EPA 8260	SLB	20
5024368013	MW-P-08	ASTM D516-90,02	TPD	1
		EPA 353.2	CLS	1
		EPA 8260	SLB	20
		SM 2340B	FRW	1
5024368014	MW-P-07	EPA 8260	SLB	20
5024368015	MW-P-01	EPA 8260	AMV	20
5024368016	DUP 1	EPA 8260	AMV	20
5024368017	DUP 2	EPA 8260	AMV	20
5024368018	TB	EPA 8260	AMV	20

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ANALYTICAL RESULTS

Project: M01046 / Michigan Plaza

Pace Project No.: 5024368

Sample: MW-168D		Lab ID: 5024368001	Collected: 03/17/09 10:00	Received: 03/18/09 11:10	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		03/24/09 03:53	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/24/09 03:53	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/24/09 03:53	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/24/09 03:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/24/09 03:53	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/24/09 03:53	75-35-4	
cis-1,2-Dichloroethene	16.5	ug/L	5.0	1		03/24/09 03:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/24/09 03:53	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/24/09 03:53	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		03/24/09 03:53	75-09-2	
Naphthalene	6.5	ug/L	5.0	1		03/24/09 03:53	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/24/09 03:53	127-18-4	
Toluene	ND	ug/L	5.0	1		03/24/09 03:53	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/24/09 03:53	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/24/09 03:53	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		03/24/09 03:53	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/24/09 03:53	1330-20-7	
Dibromofluoromethane (S)	110	%	80-123	1		03/24/09 03:53	1868-53-7	
4-Bromofluorobenzene (S)	100	%	70-126	1		03/24/09 03:53	460-00-4	
Toluene-d8 (S)	102	%	80-116	1		03/24/09 03:53	2037-26-5	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2						
Nitrogen, Nitrate	ND	mg/L	0.10	1		03/18/09 17:46		
ASTM D516-9002 Sulfate Water		Analytical Method: ASTM D516-90.02						
Sulfate	43.0	mg/L	12.5	2.5		03/20/09 13:30	14808-79-8	

ANALYTICAL RESULTS

Project: M01046 / Michigan Plaza

Pace Project No.: 5024368

Sample: MMW-P-09S		Lab ID: 5024368002	Collected: 03/17/09 10:40	Received: 03/18/09 11:10	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		03/24/09 04:30	71-43-2	
Carbon tetrachloride	ND ug/L		5.0	1		03/24/09 04:30	56-23-5	
Chloroform	ND ug/L		5.0	1		03/24/09 04:30	67-66-3	
1,1-Dichloroethane	ND ug/L		5.0	1		03/24/09 04:30	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		03/24/09 04:30	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		03/24/09 04:30	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		03/24/09 04:30	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		03/24/09 04:30	156-60-5	
Ethylbenzene	ND ug/L		5.0	1		03/24/09 04:30	100-41-4	
Methylene chloride	ND ug/L		5.0	1		03/24/09 04:30	75-09-2	
Naphthalene	ND ug/L		5.0	1		03/24/09 04:30	91-20-3	
Tetrachloroethene	ND ug/L		5.0	1		03/24/09 04:30	127-18-4	
Toluene	ND ug/L		5.0	1		03/24/09 04:30	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		03/24/09 04:30	71-55-6	
Trichloroethene	ND ug/L		5.0	1		03/24/09 04:30	79-01-6	
Vinyl chloride	ND ug/L		2.0	1		03/24/09 04:30	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		03/24/09 04:30	1330-20-7	
Dibromofluoromethane (S)	112 %		80-123	1		03/24/09 04:30	1868-53-7	
4-Bromofluorobenzene (S)	98 %		70-126	1		03/24/09 04:30	460-00-4	
Toluene-d8 (S)	100 %		80-116	1		03/24/09 04:30	2037-26-5	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2						
Nitrogen, Nitrate	0.72 mg/L		0.10	1		03/18/09 17:49		
ASTM D516-9002 Sulfate Water		Analytical Method: ASTM D516-90.02						
Sulfate	82.4 mg/L		25.0	5		03/20/09 13:30	14808-79-8	

ANALYTICAL RESULTS

Project: M01046 / Michigan Plaza

Pace Project No.: 5024368

Sample: MMW-P-09D		Lab ID: 5024368003	Collected: 03/17/09 11:05	Received: 03/18/09 11:10	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		03/24/09 05:06	71-43-2	
Carbon tetrachloride	ND ug/L		5.0	1		03/24/09 05:06	56-23-5	
Chloroform	ND ug/L		5.0	1		03/24/09 05:06	67-66-3	
1,1-Dichloroethane	ND ug/L		5.0	1		03/24/09 05:06	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		03/24/09 05:06	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		03/24/09 05:06	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		03/24/09 05:06	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		03/24/09 05:06	156-60-5	
Ethylbenzene	ND ug/L		5.0	1		03/24/09 05:06	100-41-4	
Methylene chloride	ND ug/L		5.0	1		03/24/09 05:06	75-09-2	
Naphthalene	ND ug/L		5.0	1		03/24/09 05:06	91-20-3	
Tetrachloroethene	ND ug/L		5.0	1		03/24/09 05:06	127-18-4	
Toluene	ND ug/L		5.0	1		03/24/09 05:06	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		03/24/09 05:06	71-55-6	
Trichloroethene	ND ug/L		5.0	1		03/24/09 05:06	79-01-6	
Vinyl chloride	85.1 ug/L		2.0	1		03/24/09 05:06	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		03/24/09 05:06	1330-20-7	
Dibromofluoromethane (S)	112 %		80-123	1		03/24/09 05:06	1868-53-7	
4-Bromofluorobenzene (S)	99 %		70-126	1		03/24/09 05:06	460-00-4	
Toluene-d8 (S)	100 %		80-116	1		03/24/09 05:06	2037-26-5	

ANALYTICAL RESULTS

Project: M01046 / Michigan Plaza

Pace Project No.: 5024368

Sample: MMW-C-02		Lab ID: 5024368004	Collected: 03/17/09 11:25	Received: 03/18/09 11:10	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		03/24/09 05:42	71-43-2	
Carbon tetrachloride	ND ug/L		5.0	1		03/24/09 05:42	56-23-5	
Chloroform	ND ug/L		5.0	1		03/24/09 05:42	67-66-3	
1,1-Dichloroethane	ND ug/L		5.0	1		03/24/09 05:42	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		03/24/09 05:42	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		03/24/09 05:42	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		03/24/09 05:42	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		03/24/09 05:42	156-60-5	
Ethylbenzene	ND ug/L		5.0	1		03/24/09 05:42	100-41-4	
Methylene chloride	ND ug/L		5.0	1		03/24/09 05:42	75-09-2	
Naphthalene	ND ug/L		5.0	1		03/24/09 05:42	91-20-3	
Tetrachloroethene	ND ug/L		5.0	1		03/24/09 05:42	127-18-4	
Toluene	ND ug/L		5.0	1		03/24/09 05:42	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		03/24/09 05:42	71-55-6	
Trichloroethene	ND ug/L		5.0	1		03/24/09 05:42	79-01-6	
Vinyl chloride	ND ug/L		2.0	1		03/24/09 05:42	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		03/24/09 05:42	1330-20-7	
Dibromofluoromethane (S)	113 %		80-123	1		03/24/09 05:42	1868-53-7	
4-Bromofluorobenzene (S)	96 %		70-126	1		03/24/09 05:42	460-00-4	
Toluene-d8 (S)	99 %		80-116	1		03/24/09 05:42	2037-26-5	

ANALYTICAL RESULTS

Project: M01046 / Michigan Plaza

Pace Project No.: 5024368

Sample: MMW-C-01		Lab ID: 5024368005	Collected: 03/17/09 11:45	Received: 03/18/09 11:10	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		03/24/09 06:18	71-43-2	
Carbon tetrachloride	ND ug/L		5.0	1		03/24/09 06:18	56-23-5	
Chloroform	ND ug/L		5.0	1		03/24/09 06:18	67-66-3	
1,1-Dichloroethane	ND ug/L		5.0	1		03/24/09 06:18	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		03/24/09 06:18	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		03/24/09 06:18	75-35-4	
trans-1,2-Dichloroethene	7.3 ug/L		5.0	1		03/24/09 06:18	156-60-5	
Ethylbenzene	ND ug/L		5.0	1		03/24/09 06:18	100-41-4	
Methylene chloride	ND ug/L		5.0	1		03/24/09 06:18	75-09-2	
Naphthalene	ND ug/L		5.0	1		03/24/09 06:18	91-20-3	
Tetrachloroethene	ND ug/L		5.0	1		03/24/09 06:18	127-18-4	
Toluene	ND ug/L		5.0	1		03/24/09 06:18	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		03/24/09 06:18	71-55-6	
Trichloroethene	ND ug/L		5.0	1		03/24/09 06:18	79-01-6	
Vinyl chloride	ND ug/L		2.0	1		03/24/09 06:18	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		03/24/09 06:18	1330-20-7	
Dibromofluoromethane (S)	112 %		80-123	1		03/24/09 06:18	1868-53-7	
4-Bromofluorobenzene (S)	97 %		70-126	1		03/24/09 06:18	460-00-4	
Toluene-d8 (S)	100 %		80-116	1		03/24/09 06:18	2037-26-5	

ANALYTICAL RESULTS

Project: M01046 / Michigan Plaza

Pace Project No.: 5024368

Sample: MMW-P-02		Lab ID: 5024368006	Collected: 03/17/09 12:15	Received: 03/18/09 11:10	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		03/24/09 07:19	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/24/09 07:19	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/24/09 07:19	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/24/09 07:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/24/09 07:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/24/09 07:19	75-35-4	
cis-1,2-Dichloroethene	65.4	ug/L	5.0	1		03/24/09 07:19	156-59-2	
trans-1,2-Dichloroethene	5.3	ug/L	5.0	1		03/24/09 07:19	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/24/09 07:19	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		03/24/09 07:19	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/24/09 07:19	91-20-3	
Tetrachloroethene	23.4	ug/L	5.0	1		03/24/09 07:19	127-18-4	
Toluene	ND	ug/L	5.0	1		03/24/09 07:19	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/24/09 07:19	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/24/09 07:19	79-01-6	
Vinyl chloride	68.4	ug/L	2.0	1		03/24/09 07:19	75-01-4	
Xylene (Total)	15.5	ug/L	10.0	1		03/24/09 07:19	1330-20-7	
Dibromofluoromethane (S)	103	%	80-123	1		03/24/09 07:19	1868-53-7	
4-Bromofluorobenzene (S)	101	%	70-126	1		03/24/09 07:19	460-00-4	
Toluene-d8 (S)	101	%	80-116	1		03/24/09 07:19	2037-26-5	

ANALYTICAL RESULTS

Project: M01046 / Michigan Plaza

Pace Project No.: 5024368

Sample: MW-P-03S		Lab ID: 5024368007	Collected: 03/17/09 12:35	Received: 03/18/09 11:10	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2340B Hardness, Total (Calc.)		Analytical Method: SM 2340B						
Total Hardness	586	mg/L	1.0	1		03/26/09 11:28		
8260 MSV		Analytical Method: EPA 8260						
Benzene	ND	ug/L	5.0	1		03/24/09 12:14	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/24/09 12:14	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/24/09 12:14	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/24/09 12:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/24/09 12:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/24/09 12:14	75-35-4	
cis-1,2-Dichloroethene	904	ug/L	50.0	10		03/24/09 12:45	156-59-2	
trans-1,2-Dichloroethene	38.7	ug/L	5.0	1		03/24/09 12:14	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/24/09 12:14	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		03/24/09 12:14	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/24/09 12:14	91-20-3	
Tetrachloroethene	7.5	ug/L	5.0	1		03/24/09 12:14	127-18-4	
Toluene	ND	ug/L	5.0	1		03/24/09 12:14	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/24/09 12:14	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/24/09 12:14	79-01-6	
Vinyl chloride	283	ug/L	2.0	1		03/24/09 12:14	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/24/09 12:14	1330-20-7	
Dibromofluoromethane (S)	105	%	80-123	1		03/24/09 12:14	1868-53-7	
4-Bromofluorobenzene (S)	97	%	70-126	1		03/24/09 12:14	460-00-4	
Toluene-d8 (S)	98	%	80-116	1		03/24/09 12:14	2037-26-5	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2						
Nitrogen, Nitrate	ND	mg/L	0.10	1		03/18/09 17:50		
ASTM D516-9002 Sulfate Water		Analytical Method: ASTM D516-90,02						
Sulfate	42.1	mg/L	12.5	2.5		03/20/09 13:30	14808-79-8	

ANALYTICAL RESULTS

Project: M01046 / Michigan Plaza

Pace Project No.: 5024368

Sample: MW-P-03D		Lab ID: 5024368008	Collected: 03/17/09 12:45	Received: 03/18/09 11:10	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		03/24/09 13:15	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/24/09 13:15	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/24/09 13:15	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/24/09 13:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/24/09 13:15	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/24/09 13:15	75-35-4	
cis-1,2-Dichloroethene	65.2	ug/L	5.0	1		03/24/09 13:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/24/09 13:15	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/24/09 13:15	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		03/24/09 13:15	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/24/09 13:15	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/24/09 13:15	127-18-4	
Toluene	ND	ug/L	5.0	1		03/24/09 13:15	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/24/09 13:15	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/24/09 13:15	79-01-6	
Vinyl chloride	69.8	ug/L	2.0	1		03/24/09 13:15	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/24/09 13:15	1330-20-7	
Dibromofluoromethane (S)	109	%	80-123	1		03/24/09 13:15	1868-53-7	
4-Bromofluorobenzene (S)	98	%	70-126	1		03/24/09 13:15	460-00-4	
Toluene-d8 (S)	101	%	80-116	1		03/24/09 13:15	2037-26-5	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2						
Nitrogen, Nitrate	ND	mg/L	0.10	1		03/18/09 17:51		
ASTM D516-9002 Sulfate Water		Analytical Method: ASTM D516-90.02						
Sulfate	ND	mg/L	5.0	1		03/20/09 13:30	14808-79-8	

ANALYTICAL RESULTS

Project: M01046 / Michigan Plaza

Pace Project No.: 5024368

Sample: MW-P-05		Lab ID: 5024368009	Collected: 03/17/09 13:20	Received: 03/18/09 11:10	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		03/24/09 13:45	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/24/09 13:45	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/24/09 13:45	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/24/09 13:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/24/09 13:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/24/09 13:45	75-35-4	
cis-1,2-Dichloroethene	13.7	ug/L	5.0	1		03/24/09 13:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/24/09 13:45	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/24/09 13:45	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		03/24/09 13:45	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/24/09 13:45	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/24/09 13:45	127-18-4	
Toluene	ND	ug/L	5.0	1		03/24/09 13:45	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/24/09 13:45	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/24/09 13:45	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		03/24/09 13:45	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/24/09 13:45	1330-20-7	
Dibromofluoromethane (S)	107 %		80-123	1		03/24/09 13:45	1868-53-7	
4-Bromofluorobenzene (S)	100 %		70-126	1		03/24/09 13:45	460-00-4	
Toluene-d8 (S)	102 %		80-116	1		03/24/09 13:45	2037-26-5	

ANALYTICAL RESULTS

Project: M01046 / Michigan Plaza

Pace Project No.: 5024368

Sample: MW-P-06		Lab ID: 5024368010	Collected: 03/17/09 13:40	Received: 03/18/09 11:10	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		03/24/09 15:15	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/24/09 15:15	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/24/09 15:15	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/24/09 15:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/24/09 15:15	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/24/09 15:15	75-35-4	
cis-1,2-Dichloroethene	292	ug/L	50.0	10		03/25/09 11:52	156-59-2	
trans-1,2-Dichloroethene	35.3	ug/L	5.0	1		03/24/09 15:15	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/24/09 15:15	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		03/24/09 15:15	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/24/09 15:15	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/24/09 15:15	127-18-4	
Toluene	ND	ug/L	5.0	1		03/24/09 15:15	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/24/09 15:15	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/24/09 15:15	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		03/24/09 15:15	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/24/09 15:15	1330-20-7	
Dibromofluoromethane (S)	109	%	80-123	1		03/24/09 15:15	1868-53-7	
4-Bromofluorobenzene (S)	99	%	70-126	1		03/24/09 15:15	460-00-4	
Toluene-d8 (S)	100	%	80-116	1		03/24/09 15:15	2037-26-5	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2						
Nitrogen, Nitrate	ND	mg/L	0.10	1		03/18/09 17:52		
ASTM D516-9002 Sulfate Water		Analytical Method: ASTM D516-90.02						
Sulfate	9.4	mg/L	5.0	1		03/20/09 13:30	14808-79-8	

ANALYTICAL RESULTS

Project: M01046 / Michigan Plaza

Pace Project No.: 5024368

Sample: MW-P-10S		Lab ID: 5024368011	Collected: 03/17/09 14:10	Received: 03/18/09 11:10	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		03/24/09 15:45	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/24/09 15:45	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/24/09 15:45	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/24/09 15:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/24/09 15:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/24/09 15:45	75-35-4	
cis-1,2-Dichloroethene	1160	ug/L	50.0	10		03/24/09 16:15	156-59-2	
trans-1,2-Dichloroethene	71.5	ug/L	5.0	1		03/24/09 15:45	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/24/09 15:45	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		03/24/09 15:45	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/24/09 15:45	91-20-3	
Tetrachloroethene	11.9	ug/L	5.0	1		03/24/09 15:45	127-18-4	
Toluene	ND	ug/L	5.0	1		03/24/09 15:45	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/24/09 15:45	71-55-6	
Trichloroethene	8.6	ug/L	5.0	1		03/24/09 15:45	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		03/24/09 15:45	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/24/09 15:45	1330-20-7	
Dibromofluoromethane (S)	110	%	80-123	1		03/24/09 15:45	1868-53-7	
4-Bromofluorobenzene (S)	98	%	70-126	1		03/24/09 15:45	460-00-4	
Toluene-d8 (S)	101	%	80-116	1		03/24/09 15:45	2037-26-5	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2						
Nitrogen, Nitrate	ND	mg/L	0.10	1		03/18/09 17:53		
ASTM D516-9002 Sulfate Water		Analytical Method: ASTM D516-90.02						
Sulfate	54.6	mg/L	25.0	5		03/20/09 13:30	14808-79-8	

ANALYTICAL RESULTS

Project: M01046 / Michigan Plaza

Pace Project No.: 5024368

Sample: MW-P-10D		Lab ID: 5024368012	Collected: 03/17/09 14:30	Received: 03/18/09 11:10	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		03/25/09 08:49	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/25/09 08:49	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/25/09 08:49	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/25/09 08:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/25/09 08:49	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/25/09 08:49	75-35-4	
cis-1,2-Dichloroethene	4860	ug/L	125	25		03/25/09 09:19	156-59-2	
trans-1,2-Dichloroethene	12.9	ug/L	5.0	1		03/25/09 08:49	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/25/09 08:49	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		03/25/09 08:49	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/25/09 08:49	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/25/09 08:49	127-18-4	
Toluene	ND	ug/L	5.0	1		03/25/09 08:49	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/25/09 08:49	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/25/09 08:49	79-01-6	
Vinyl chloride	2500	ug/L	50.0	25		03/25/09 09:19	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/25/09 08:49	1330-20-7	
Dibromofluoromethane (S)	111	%	80-123	1		03/25/09 08:49	1868-53-7	
4-Bromofluorobenzene (S)	100	%	70-126	1		03/25/09 08:49	460-00-4	
Toluene-d8 (S)	100	%	80-116	1		03/25/09 08:49	2037-26-5	

ANALYTICAL RESULTS

Project: M01046 / Michigan Plaza

Pace Project No.: 5024368

Sample: MW-P-08		Lab ID: 5024368013	Collected: 03/17/09 15:00	Received: 03/18/09 11:10	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2340B Hardness, Total (Calc.)		Analytical Method: SM 2340B						
Total Hardness	794	mg/L	1.0	1		03/26/09 11:34		
8260 MSV		Analytical Method: EPA 8260						
Benzene	ND	ug/L	5.0	1		03/25/09 09:50	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/25/09 09:50	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/25/09 09:50	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/25/09 09:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/25/09 09:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/25/09 09:50	75-35-4	
cis-1,2-Dichloroethene	1130	ug/L	50.0	10		03/25/09 10:20	156-59-2	
trans-1,2-Dichloroethene	47.1	ug/L	5.0	1		03/25/09 09:50	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/25/09 09:50	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		03/25/09 09:50	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/25/09 09:50	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/25/09 09:50	127-18-4	
Toluene	ND	ug/L	5.0	1		03/25/09 09:50	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/25/09 09:50	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/25/09 09:50	79-01-6	
Vinyl chloride	5680	ug/L	50.0	25		03/25/09 16:27	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/25/09 09:50	1330-20-7	
Dibromofluoromethane (S)	110	%	80-123	1		03/25/09 09:50	1868-53-7	
4-Bromofluorobenzene (S)	97	%	70-126	1		03/25/09 09:50	460-00-4	
Toluene-d8 (S)	98	%	80-116	1		03/25/09 09:50	2037-26-5	
353.2 Nitrogen, NO2/NO3 unpres		Analytical Method: EPA 353.2						
Nitrogen, Nitrate	ND	mg/L	0.10	1		03/18/09 17:58		
ASTM D516-9002 Sulfate Water		Analytical Method: ASTM D516-90,02						
Sulfate	5.1	mg/L	5.0	1		03/20/09 13:30	14808-79-8	

ANALYTICAL RESULTS

Project: M01046 / Michigan Plaza

Pace Project No.: 5024368

Sample: MW-P-07		Lab ID: 5024368014	Collected: 03/17/09 15:20	Received: 03/18/09 11:10	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		03/25/09 10:51	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/25/09 10:51	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/25/09 10:51	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/25/09 10:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/25/09 10:51	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/25/09 10:51	75-35-4	
cis-1,2-Dichloroethene	361	ug/L	50.0	10		03/25/09 11:21	156-59-2	
trans-1,2-Dichloroethene	17.7	ug/L	5.0	1		03/25/09 10:51	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/25/09 10:51	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		03/25/09 10:51	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/25/09 10:51	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/25/09 10:51	127-18-4	
Toluene	ND	ug/L	5.0	1		03/25/09 10:51	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/25/09 10:51	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/25/09 10:51	79-01-6	
Vinyl chloride	1830	ug/L	20.0	10		03/25/09 11:21	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/25/09 10:51	1330-20-7	
Dibromofluoromethane (S)	109	%	80-123	1		03/25/09 10:51	1868-53-7	
4-Bromofluorobenzene (S)	97	%	70-126	1		03/25/09 10:51	460-00-4	
Toluene-d8 (S)	97	%	80-116	1		03/25/09 10:51	2037-26-5	

ANALYTICAL RESULTS

Project: M01046 / Michigan Plaza

Pace Project No.: 5024368

Sample: MW-P-01		Lab ID: 5024368015	Collected: 03/17/09 15:50	Received: 03/18/09 11:10	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		03/24/09 13:58	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/24/09 13:58	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/24/09 13:58	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/24/09 13:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/24/09 13:58	107-06-2	
1,1-Dichloroethene	5.8	ug/L	5.0	1		03/24/09 13:58	75-35-4	
cis-1,2-Dichloroethene	12300	ug/L	500	100		03/26/09 17:51	156-59-2	
trans-1,2-Dichloroethene	143	ug/L	5.0	1		03/24/09 13:58	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/24/09 13:58	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		03/24/09 13:58	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/24/09 13:58	91-20-3	
Tetrachloroethene	17.5	ug/L	5.0	1		03/24/09 13:58	127-18-4	
Toluene	ND	ug/L	5.0	1		03/24/09 13:58	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/24/09 13:58	71-55-6	
Trichloroethene	22.6	ug/L	5.0	1		03/24/09 13:58	79-01-6	
Vinyl chloride	3290	ug/L	200	100		03/26/09 17:51	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/24/09 13:58	1330-20-7	
Dibromofluoromethane (S)	106	%	80-123	1		03/24/09 13:58	1868-53-7	
4-Bromofluorobenzene (S)	99	%	70-126	1		03/24/09 13:58	460-00-4	
Toluene-d8 (S)	100	%	80-116	1		03/24/09 13:58	2037-26-5	

ANALYTICAL RESULTS

Project: M01046 / Michigan Plaza

Pace Project No.: 5024368

Sample: DUP 1		Lab ID: 5024368016	Collected: 03/17/09 08:00	Received: 03/18/09 11:10	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		03/24/09 14:32	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/24/09 14:32	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/24/09 14:32	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/24/09 14:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/24/09 14:32	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/24/09 14:32	75-35-4	
cis-1,2-Dichloroethene	12200	ug/L	250	50		03/27/09 07:24	156-59-2	
trans-1,2-Dichloroethene	244	ug/L	5.0	1		03/24/09 14:32	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/24/09 14:32	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		03/24/09 14:32	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/24/09 14:32	91-20-3	
Tetrachloroethene	19.1	ug/L	5.0	1		03/24/09 14:32	127-18-4	
Toluene	ND	ug/L	5.0	1		03/24/09 14:32	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/24/09 14:32	71-55-6	
Trichloroethene	24.1	ug/L	5.0	1		03/24/09 14:32	79-01-6	
Vinyl chloride	2930	ug/L	20.0	10		03/27/09 06:50	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/24/09 14:32	1330-20-7	
Dibromofluoromethane (S)	102	%	80-123	1		03/24/09 14:32	1868-53-7	
4-Bromofluorobenzene (S)	101	%	70-126	1		03/24/09 14:32	460-00-4	
Toluene-d8 (S)	101	%	80-116	1		03/24/09 14:32	2037-26-5	

ANALYTICAL RESULTS

Project: M01046 / Michigan Plaza

Pace Project No.: 5024368

Sample: DUP 2		Lab ID: 5024368017	Collected: 03/17/09 08:00	Received: 03/18/09 11:10	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		03/24/09 15:40	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/24/09 15:40	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/24/09 15:40	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/24/09 15:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/24/09 15:40	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/24/09 15:40	75-35-4	
cis-1,2-Dichloroethene	1190	ug/L	50.0	10		03/27/09 07:58	156-59-2	
trans-1,2-Dichloroethene	57.0	ug/L	5.0	1		03/24/09 15:40	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/24/09 15:40	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		03/24/09 15:40	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/24/09 15:40	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/24/09 15:40	127-18-4	
Toluene	ND	ug/L	5.0	1		03/24/09 15:40	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/24/09 15:40	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/24/09 15:40	79-01-6	
Vinyl chloride	6770	ug/L	100	50		03/27/09 08:32	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/24/09 15:40	1330-20-7	
Dibromofluoromethane (S)	110	%	80-123	1		03/24/09 15:40	1868-53-7	
4-Bromofluorobenzene (S)	99	%	70-126	1		03/24/09 15:40	460-00-4	
Toluene-d8 (S)	101	%	80-116	1		03/24/09 15:40	2037-26-5	

ANALYTICAL RESULTS

Project: M01046 / Michigan Plaza

Pace Project No.: 5024368

Sample: TB		Lab ID: 5024368018	Collected: 03/17/09 08:00	Received: 03/18/09 11:10	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		03/24/09 16:48	71-43-2	
Carbon tetrachloride	ND ug/L		5.0	1		03/24/09 16:48	56-23-5	
Chloroform	ND ug/L		5.0	1		03/24/09 16:48	67-66-3	
1,1-Dichloroethane	ND ug/L		5.0	1		03/24/09 16:48	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		03/24/09 16:48	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		03/24/09 16:48	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		03/24/09 16:48	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		03/24/09 16:48	156-60-5	
Ethylbenzene	ND ug/L		5.0	1		03/24/09 16:48	100-41-4	
Methylene chloride	ND ug/L		5.0	1		03/24/09 16:48	75-09-2	
Naphthalene	ND ug/L		5.0	1		03/24/09 16:48	91-20-3	
Tetrachloroethene	ND ug/L		5.0	1		03/24/09 16:48	127-18-4	
Toluene	ND ug/L		5.0	1		03/24/09 16:48	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		03/24/09 16:48	71-55-6	
Trichloroethene	ND ug/L		5.0	1		03/24/09 16:48	79-01-6	
Vinyl chloride	ND ug/L		2.0	1		03/24/09 16:48	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		03/24/09 16:48	1330-20-7	
Dibromofluoromethane (S)	115 %		80-123	1		03/24/09 16:48	1868-53-7	
4-Bromofluorobenzene (S)	101 %		70-126	1		03/24/09 16:48	460-00-4	
Toluene-d8 (S)	101 %		80-116	1		03/24/09 16:48	2037-26-5	

QUALITY CONTROL DATA

Project: M01046 / Michigan Plaza

Pace Project No.: 5024368

QC Batch:	WETA/3378	Analysis Method:	EPA 353.2
QC Batch Method:	EPA 353.2	Analysis Description:	353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples:	5024368001, 5024368002, 5024368007, 5024368008, 5024368010, 5024368011, 5024368013		

METHOD BLANK:	276278	Matrix:	Water
Associated Lab Samples:	5024368001, 5024368002, 5024368007, 5024368008, 5024368010, 5024368011, 5024368013		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	03/18/09 17:43	

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1	0.96	96	90-110	

Parameter		Units	5024368001 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	1	1	0.88	0.88	88	88	90-110	.3	20	M3

QUALITY CONTROL DATA

Project: M01046 / Michigan Plaza

Pace Project No.: 5024368

QC Batch:	WETA/3393	Analysis Method:	ASTM D516-90,02
QC Batch Method:	ASTM D516-90,02	Analysis Description:	ASTM D516-9002 Sulfate Water
Associated Lab Samples:	5024368001, 5024368002, 5024368007, 5024368008, 5024368010, 5024368011, 5024368013		

METHOD BLANK:	277471	Matrix:	Water
Associated Lab Samples:	5024368001, 5024368002, 5024368007, 5024368008, 5024368010, 5024368011, 5024368013		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	5.0	03/20/09 13:30	

LABORATORY CONTROL SAMPLE: 277472

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	19.1	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 277473 277474

Parameter	Units	5024331002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	6.6	20	20	26.9	27.3	102	104	75-125	1	20	

QUALITY CONTROL DATA

Project: M01046 / Michigan Plaza

Pace Project No.: 5024368

QC Batch: MSV/15128 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5024368001, 5024368002, 5024368003, 5024368004, 5024368005, 5024368006

METHOD BLANK: 278452 Matrix: Water
Associated Lab Samples: 5024368001, 5024368002, 5024368003, 5024368004, 5024368005, 5024368006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	03/23/09 20:47	
1,1-Dichloroethane	ug/L	ND	5.0	03/23/09 20:47	
1,1-Dichloroethene	ug/L	ND	5.0	03/23/09 20:47	
1,2-Dichloroethane	ug/L	ND	5.0	03/23/09 20:47	
Benzene	ug/L	ND	5.0	03/23/09 20:47	
Carbon tetrachloride	ug/L	ND	5.0	03/23/09 20:47	
Chloroform	ug/L	ND	5.0	03/23/09 20:47	
cis-1,2-Dichloroethene	ug/L	ND	5.0	03/23/09 20:47	
Ethylbenzene	ug/L	ND	5.0	03/23/09 20:47	
Methylene chloride	ug/L	ND	5.0	03/23/09 20:47	
Naphthalene	ug/L	ND	5.0	03/23/09 20:47	
Tetrachloroethene	ug/L	ND	5.0	03/23/09 20:47	
Toluene	ug/L	ND	5.0	03/23/09 20:47	
trans-1,2-Dichloroethene	ug/L	ND	5.0	03/23/09 20:47	
Trichloroethene	ug/L	ND	5.0	03/23/09 20:47	
Vinyl chloride	ug/L	ND	2.0	03/23/09 20:47	
Xylene (Total)	ug/L	ND	10.0	03/23/09 20:47	
4-Bromofluorobenzene (S)	%	100	70-126	03/23/09 20:47	
Dibromofluoromethane (S)	%	106	80-123	03/23/09 20:47	
Toluene-d8 (S)	%	100	80-116	03/23/09 20:47	

LABORATORY CONTROL SAMPLE: 278453

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	40.1	80	69-136	
1,1-Dichloroethane	ug/L	50	42.9	86	67-133	
1,1-Dichloroethene	ug/L	50	48.2	96	63-128	
1,2-Dichloroethane	ug/L	50	45.3	91	69-139	
Benzene	ug/L	50	47.4	95	78-127	
Carbon tetrachloride	ug/L	50	40.8	82	62-143	
Chloroform	ug/L	50	48.6	97	74-131	
cis-1,2-Dichloroethene	ug/L	50	46.6	93	74-128	
Ethylbenzene	ug/L	50	46.4	93	81-126	
Methylene chloride	ug/L	50	46.7	93	32-164	
Naphthalene	ug/L	50	38.1	76	61-135	
Tetrachloroethene	ug/L	50	39.3	79	60-119	
Toluene	ug/L	50	45.0	90	75-129	
trans-1,2-Dichloroethene	ug/L	50	49.8	100	71-126	
Trichloroethene	ug/L	50	47.1	94	74-130	
Vinyl chloride	ug/L	50	41.4	83	55-141	
Xylene (Total)	ug/L	150	148	99	76-132	

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QUALITY CONTROL DATA

Project: M01046 / Michigan Plaza

Pace Project No.: 5024368

LABORATORY CONTROL SAMPLE: 278453

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			98	70-126	
Dibromofluoromethane (S)	%			103	80-123	
Toluene-d8 (S)	%			102	80-116	

MATRIX SPIKE SAMPLE: 278454

Parameter	Units	5024363009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	50	46.1	92	64-143	
1,1-Dichloroethane	ug/L	ND	50	52.2	104	68-139	
1,1-Dichloroethene	ug/L	ND	50	59.2	118	55-140	
1,2-Dichloroethane	ug/L	ND	50	52.1	104	63-148	
Benzene	ug/L	ND	50	54.2	108	63-141	
Carbon tetrachloride	ug/L	ND	50	47.7	95	54-145	
Chloroform	ug/L	ND	50	54.0	108	67-134	
cis-1,2-Dichloroethene	ug/L	ND	50	54.3	109	65-132	
Ethylbenzene	ug/L	ND	50	51.4	103	44-151	
Methylene chloride	ug/L	ND	50	67.7	135	46-154	
Naphthalene	ug/L	ND	50	39.7	79	44-138	
Tetrachloroethene	ug/L	ND	50	44.4	89	25-146	
Toluene	ug/L	ND	50	50.4	101	59-142	
trans-1,2-Dichloroethene	ug/L	ND	50	60.5	121	60-137	
Trichloroethene	ug/L	ND	50	53.2	106	61-137	
Vinyl chloride	ug/L	ND	50	56.6	113	51-144	
Xylene (Total)	ug/L	ND	150	163	109	44-152	
4-Bromofluorobenzene (S)	%				97	70-126	
Dibromofluoromethane (S)	%				106	80-123	
Toluene-d8 (S)	%				103	80-116	

QUALITY CONTROL DATA

Project: M01046 / Michigan Plaza

Pace Project No.: 5024368

QC Batch: MSV/15146 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5024368007, 5024368008, 5024368009, 5024368010, 5024368011

METHOD BLANK: 278925 Matrix: Water
Associated Lab Samples: 5024368007, 5024368008, 5024368009, 5024368010, 5024368011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	03/24/09 09:40	
1,1-Dichloroethane	ug/L	ND	5.0	03/24/09 09:40	
1,1-Dichloroethene	ug/L	ND	5.0	03/24/09 09:40	
1,2-Dichloroethane	ug/L	ND	5.0	03/24/09 09:40	
Benzene	ug/L	ND	5.0	03/24/09 09:40	
Carbon tetrachloride	ug/L	ND	5.0	03/24/09 09:40	
Chloroform	ug/L	ND	5.0	03/24/09 09:40	
cis-1,2-Dichloroethene	ug/L	ND	5.0	03/24/09 09:40	
Ethylbenzene	ug/L	ND	5.0	03/24/09 09:40	
Methylene chloride	ug/L	ND	5.0	03/24/09 09:40	
Naphthalene	ug/L	ND	5.0	03/24/09 09:40	
Tetrachloroethene	ug/L	ND	5.0	03/24/09 09:40	
Toluene	ug/L	ND	5.0	03/24/09 09:40	
trans-1,2-Dichloroethene	ug/L	ND	5.0	03/24/09 09:40	
Trichloroethene	ug/L	ND	5.0	03/24/09 09:40	
Vinyl chloride	ug/L	ND	2.0	03/24/09 09:40	
Xylene (Total)	ug/L	ND	10.0	03/24/09 09:40	
4-Bromofluorobenzene (S)	%	100	70-126	03/24/09 09:40	
Dibromofluoromethane (S)	%	109	80-123	03/24/09 09:40	
Toluene-d8 (S)	%	99	80-116	03/24/09 09:40	

LABORATORY CONTROL SAMPLE: 278926

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	42.0	84	69-136	
1,1-Dichloroethane	ug/L	50	46.7	93	67-133	
1,1-Dichloroethene	ug/L	50	53.5	107	63-128	
1,2-Dichloroethane	ug/L	50	49.6	99	69-139	
Benzene	ug/L	50	50.6	101	78-127	
Carbon tetrachloride	ug/L	50	43.2	86	62-143	
Chloroform	ug/L	50	50.0	100	74-131	
cis-1,2-Dichloroethene	ug/L	50	49.6	99	74-128	
Ethylbenzene	ug/L	50	49.5	99	81-126	
Methylene chloride	ug/L	50	53.9	108	32-164	
Naphthalene	ug/L	50	45.1	90	61-135	
Tetrachloroethene	ug/L	50	41.1	82	60-119	
Toluene	ug/L	50	47.3	95	75-129	
trans-1,2-Dichloroethene	ug/L	50	53.5	107	71-126	
Trichloroethene	ug/L	50	50.2	100	74-130	
Vinyl chloride	ug/L	50	51.1	102	55-141	
Xylene (Total)	ug/L	150	158	105	76-132	

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QUALITY CONTROL DATA

Project: M01046 / Michigan Plaza

Pace Project No.: 5024368

LABORATORY CONTROL SAMPLE: 278926

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			100	70-126	
Dibromofluoromethane (S)	%			100	80-123	
Toluene-d8 (S)	%			102	80-116	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 278927 278928

Parameter	Units	5024368009 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	41.9	46.3	84	93	64-143	10	20	
1,1-Dichloroethane	ug/L	ND	50	50	48.1	50.4	96	101	68-139	5	20	
1,1-Dichloroethene	ug/L	ND	50	50	60.6	64.8	121	130	55-140	7	20	
1,2-Dichloroethane	ug/L	ND	50	50	46.8	50.1	94	100	63-148	7	20	
Benzene	ug/L	ND	50	50	49.5	53.2	99	106	63-141	7	20	
Carbon tetrachloride	ug/L	ND	50	50	44.2	48.4	88	97	54-145	9	20	
Chloroform	ug/L	ND	50	50	49.9	53.7	100	107	67-134	7	20	
cis-1,2-Dichloroethene	ug/L	13.7	50	50	63.9	67.7	100	108	65-132	6	20	
Ethylbenzene	ug/L	ND	50	50	47.0	50.5	94	101	44-151	7	20	
Methylene chloride	ug/L	ND	50	50	54.5	59.8	109	120	46-154	9	20	
Naphthalene	ug/L	ND	50	50	34.5	40.8	69	82	44-138	17	20	
Tetrachloroethene	ug/L	ND	50	50	39.3	42.0	79	84	25-146	7	20	
Toluene	ug/L	ND	50	50	45.4	48.1	91	96	59-142	6	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	59.3	63.4	114	123	60-137	7	20	
Trichloroethene	ug/L	ND	50	50	48.9	52.2	98	104	61-137	7	20	
Vinyl chloride	ug/L	ND	50	50	57.7	61.9	115	124	51-144	7	20	
Xylene (Total)	ug/L	ND	150	150	149	160	99	107	44-152	7	20	
4-Bromofluorobenzene (S)	%						99	99	70-126		20	
Dibromofluoromethane (S)	%						103	105	80-123		20	
Toluene-d8 (S)	%						100	101	80-116		20	

QUALITY CONTROL DATA

Project: M01046 / Michigan Plaza

Pace Project No.: 5024368

QC Batch: MSV/15150

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV

Associated Lab Samples: 5024368018

METHOD BLANK: 279038

Matrix: Water

Associated Lab Samples: 5024368018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	03/24/09 13:24	
1,1-Dichloroethane	ug/L	ND	5.0	03/24/09 13:24	
1,1-Dichloroethene	ug/L	ND	5.0	03/24/09 13:24	
1,2-Dichloroethane	ug/L	ND	5.0	03/24/09 13:24	
Benzene	ug/L	ND	5.0	03/24/09 13:24	
Carbon tetrachloride	ug/L	ND	5.0	03/24/09 13:24	
Chloroform	ug/L	ND	5.0	03/24/09 13:24	
cis-1,2-Dichloroethene	ug/L	ND	5.0	03/24/09 13:24	
Ethylbenzene	ug/L	ND	5.0	03/24/09 13:24	
Methylene chloride	ug/L	ND	5.0	03/24/09 13:24	
Naphthalene	ug/L	ND	5.0	03/24/09 13:24	
Tetrachloroethene	ug/L	ND	5.0	03/24/09 13:24	
Toluene	ug/L	ND	5.0	03/24/09 13:24	
trans-1,2-Dichloroethene	ug/L	ND	5.0	03/24/09 13:24	
Trichloroethene	ug/L	ND	5.0	03/24/09 13:24	
Vinyl chloride	ug/L	ND	2.0	03/24/09 13:24	
Xylene (Total)	ug/L	ND	10.0	03/24/09 13:24	
4-Bromofluorobenzene (S)	%	100	70-126	03/24/09 13:24	
Dibromofluoromethane (S)	%	115	80-123	03/24/09 13:24	
Toluene-d8 (S)	%	102	80-116	03/24/09 13:24	

LABORATORY CONTROL SAMPLE: 279039

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	48.0	96	69-136	
1,1-Dichloroethane	ug/L	50	50.6	101	67-133	
1,1-Dichloroethene	ug/L	50	45.9	92	63-128	
1,2-Dichloroethane	ug/L	50	50.6	101	69-139	
Benzene	ug/L	50	48.9	98	78-127	
Carbon tetrachloride	ug/L	50	52.9	106	62-143	
Chloroform	ug/L	50	47.8	96	74-131	
cis-1,2-Dichloroethene	ug/L	50	50.5	101	74-128	
Ethylbenzene	ug/L	50	47.4	95	81-126	
Methylene chloride	ug/L	50	54.8	110	32-164	
Naphthalene	ug/L	50	30.0	60	61-135	L0
Tetrachloroethene	ug/L	50	37.5	75	60-119	
Toluene	ug/L	50	49.9	100	75-129	
trans-1,2-Dichloroethene	ug/L	50	55.9	112	71-126	
Trichloroethene	ug/L	50	50.3	101	74-130	
Vinyl chloride	ug/L	50	59.2	118	55-141	
Xylene (Total)	ug/L	150	146	97	76-132	

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QUALITY CONTROL DATA

Project: M01046 / Michigan Plaza

Pace Project No.: 5024368

LABORATORY CONTROL SAMPLE: 279039

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			100	70-126	
Dibromofluoromethane (S)	%			103	80-123	
Toluene-d8 (S)	%			102	80-116	

QUALITY CONTROL DATA

Project: M01046 / Michigan Plaza

Pace Project No.: 5024368

QC Batch: MSV/15166 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5024368012, 5024368013, 5024368014

METHOD BLANK: 279416 Matrix: Water

Associated Lab Samples: 5024368012, 5024368013, 5024368014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	03/25/09 08:19	
1,1-Dichloroethane	ug/L	ND	5.0	03/25/09 08:19	
1,1-Dichloroethene	ug/L	ND	5.0	03/25/09 08:19	
1,2-Dichloroethane	ug/L	ND	5.0	03/25/09 08:19	
Benzene	ug/L	ND	5.0	03/25/09 08:19	
Carbon tetrachloride	ug/L	ND	5.0	03/25/09 08:19	
Chloroform	ug/L	ND	5.0	03/25/09 08:19	
cis-1,2-Dichloroethene	ug/L	ND	5.0	03/25/09 08:19	
Ethylbenzene	ug/L	ND	5.0	03/25/09 08:19	
Methylene chloride	ug/L	ND	5.0	03/25/09 08:19	
Naphthalene	ug/L	ND	5.0	03/25/09 08:19	
Tetrachloroethene	ug/L	ND	5.0	03/25/09 08:19	
Toluene	ug/L	ND	5.0	03/25/09 08:19	
trans-1,2-Dichloroethene	ug/L	ND	5.0	03/25/09 08:19	
Trichloroethene	ug/L	ND	5.0	03/25/09 08:19	
Vinyl chloride	ug/L	ND	2.0	03/25/09 08:19	
Xylene (Total)	ug/L	ND	10.0	03/25/09 08:19	
4-Bromofluorobenzene (S)	%	100	70-126	03/25/09 08:19	
Dibromofluoromethane (S)	%	108	80-123	03/25/09 08:19	
Toluene-d8 (S)	%	100	80-116	03/25/09 08:19	

LABORATORY CONTROL SAMPLE: 279417

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	44.3	89	69-136	
1,1-Dichloroethane	ug/L	50	49.9	100	67-133	
1,1-Dichloroethene	ug/L	50	58.7	117	63-128	
1,2-Dichloroethane	ug/L	50	51.3	103	69-139	
Benzene	ug/L	50	52.6	105	78-127	
Carbon tetrachloride	ug/L	50	46.7	93	62-143	
Chloroform	ug/L	50	53.5	107	74-131	
cis-1,2-Dichloroethene	ug/L	50	52.9	106	74-128	
Ethylbenzene	ug/L	50	48.6	97	81-126	
Methylene chloride	ug/L	50	58.8	118	32-164	
Naphthalene	ug/L	50	41.0	82	61-135	
Tetrachloroethene	ug/L	50	40.9	82	60-119	
Toluene	ug/L	50	47.8	96	75-129	
trans-1,2-Dichloroethene	ug/L	50	57.3	115	71-126	
Trichloroethene	ug/L	50	51.1	102	74-130	
Vinyl chloride	ug/L	50	55.4	111	55-141	
Xylene (Total)	ug/L	150	158	106	76-132	

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QUALITY CONTROL DATA

Project: M01046 / Michigan Plaza

Pace Project No.: 5024368

LABORATORY CONTROL SAMPLE: 279417

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			101	70-126	
Dibromofluoromethane (S)	%			103	80-123	
Toluene-d8 (S)	%			101	80-116	

QUALITY CONTROL DATA

Project: M01046 / Michigan Plaza

Pace Project No.: 5024368

QC Batch: MSV/15218

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV

Associated Lab Samples: 5024368015

METHOD BLANK: 280553

Matrix: Water

Associated Lab Samples: 5024368015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	03/26/09 13:55	
1,1-Dichloroethane	ug/L	ND	5.0	03/26/09 13:55	
1,1-Dichloroethene	ug/L	ND	5.0	03/26/09 13:55	
1,2-Dichloroethane	ug/L	ND	5.0	03/26/09 13:55	
Benzene	ug/L	ND	5.0	03/26/09 13:55	
Carbon tetrachloride	ug/L	ND	5.0	03/26/09 13:55	
Chloroform	ug/L	ND	5.0	03/26/09 13:55	
Ethylbenzene	ug/L	ND	5.0	03/26/09 13:55	
Methylene chloride	ug/L	ND	5.0	03/26/09 13:55	
Naphthalene	ug/L	ND	5.0	03/26/09 13:55	
Tetrachloroethene	ug/L	ND	5.0	03/26/09 13:55	
Toluene	ug/L	ND	5.0	03/26/09 13:55	
trans-1,2-Dichloroethene	ug/L	ND	5.0	03/26/09 13:55	
Trichloroethene	ug/L	ND	5.0	03/26/09 13:55	
Xylene (Total)	ug/L	ND	10.0	03/26/09 13:55	
4-Bromofluorobenzene (S)	%	98	70-126	03/26/09 13:55	
Dibromofluoromethane (S)	%	105	80-123	03/26/09 13:55	
Toluene-d8 (S)	%	101	80-116	03/26/09 13:55	

LABORATORY CONTROL SAMPLE: 280554

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	55.5	111	69-136	
1,1-Dichloroethane	ug/L	50	52.5	105	67-133	
1,1-Dichloroethene	ug/L	50	56.3	113	63-128	
1,2-Dichloroethane	ug/L	50	64.3	129	69-139	
Benzene	ug/L	50	59.1	118	78-127	
Carbon tetrachloride	ug/L	50	59.4	119	62-143	
Chloroform	ug/L	50	54.9	110	74-131	
Ethylbenzene	ug/L	50	52.8	106	81-126	
Methylene chloride	ug/L	50	60.5	121	32-164	
Naphthalene	ug/L	50	50.6	101	61-135	
Tetrachloroethene	ug/L	50	45.1	90	60-119	
Toluene	ug/L	50	57.4	115	75-129	
trans-1,2-Dichloroethene	ug/L	50	58.4	117	71-126	
Trichloroethene	ug/L	50	56.1	112	74-130	
Xylene (Total)	ug/L	150	169	113	76-132	
4-Bromofluorobenzene (S)	%			100	70-126	
Dibromofluoromethane (S)	%			106	80-123	
Toluene-d8 (S)	%			99	80-116	

QUALITY CONTROL DATA

Project: M01046 / Michigan Plaza

Pace Project No.: 5024368

QC Batch: MSV/15220

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV

Associated Lab Samples: 5024368016, 5024368017

METHOD BLANK: 280588

Matrix: Water

Associated Lab Samples: 5024368016, 5024368017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	03/27/09 02:19	
1,1-Dichloroethane	ug/L	ND	5.0	03/27/09 02:19	
1,1-Dichloroethene	ug/L	ND	5.0	03/27/09 02:19	
1,2-Dichloroethane	ug/L	ND	5.0	03/27/09 02:19	
Benzene	ug/L	ND	5.0	03/27/09 02:19	
Carbon tetrachloride	ug/L	ND	5.0	03/27/09 02:19	
Chloroform	ug/L	ND	5.0	03/27/09 02:19	
cis-1,2-Dichloroethene	ug/L	ND	5.0	03/27/09 02:19	
Ethylbenzene	ug/L	ND	5.0	03/27/09 02:19	
Methylene chloride	ug/L	ND	5.0	03/27/09 02:19	
Naphthalene	ug/L	ND	5.0	03/27/09 02:19	
Tetrachloroethene	ug/L	ND	5.0	03/27/09 02:19	
Toluene	ug/L	ND	5.0	03/27/09 02:19	
trans-1,2-Dichloroethene	ug/L	ND	5.0	03/27/09 02:19	
Trichloroethene	ug/L	ND	5.0	03/27/09 02:19	
Vinyl chloride	ug/L	ND	2.0	03/27/09 02:19	
Xylene (Total)	ug/L	ND	10.0	03/27/09 02:19	
4-Bromofluorobenzene (S)	%	101	70-126	03/27/09 02:19	
Dibromofluoromethane (S)	%	102	80-123	03/27/09 02:19	
Toluene-d8 (S)	%	103	80-116	03/27/09 02:19	

LABORATORY CONTROL SAMPLE: 280589

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	53.1	106	69-136	
1,1-Dichloroethane	ug/L	50	52.0	104	67-133	
1,1-Dichloroethene	ug/L	50	54.0	108	63-128	
1,2-Dichloroethane	ug/L	50	62.8	126	69-139	
Benzene	ug/L	50	56.5	113	78-127	
Carbon tetrachloride	ug/L	50	55.3	111	62-143	
Chloroform	ug/L	50	54.6	109	74-131	
cis-1,2-Dichloroethene	ug/L	50	56.8	114	74-128	
Ethylbenzene	ug/L	50	51.3	103	81-126	
Methylene chloride	ug/L	50	62.0	124	32-164	
Naphthalene	ug/L	50	45.8	92	61-135	
Tetrachloroethene	ug/L	50	43.9	88	60-119	
Toluene	ug/L	50	55.9	112	75-129	
trans-1,2-Dichloroethene	ug/L	50	57.0	114	71-126	
Trichloroethene	ug/L	50	59.2	118	74-130	
Vinyl chloride	ug/L	50	61.5	123	55-141	
Xylene (Total)	ug/L	150	163	109	76-132	

Date: 03/30/2009 03:52 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: M01046 / Michigan Plaza

Pace Project No.: 5024368

LABORATORY CONTROL SAMPLE: 280589

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			100	70-126	
Dibromofluoromethane (S)	%			104	80-123	
Toluene-d8 (S)	%			99	80-116	

MATRIX SPIKE SAMPLE: 280590

Parameter	Units	5024384004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	50	56.4	113	64-143	
1,1-Dichloroethane	ug/L	ND	50	51.2	102	68-139	
1,1-Dichloroethene	ug/L	ND	50	56.3	113	55-140	
1,2-Dichloroethane	ug/L	ND	50	61.0	122	63-148	
Benzene	ug/L	ND	50	55.5	111	63-141	
Carbon tetrachloride	ug/L	ND	50	59.9	120	54-145	
Chloroform	ug/L	ND	50	54.1	108	67-134	
cis-1,2-Dichloroethene	ug/L	ND	50	56.2	112	65-132	
Ethylbenzene	ug/L	ND	50	51.7	103	44-151	
Methylene chloride	ug/L	ND	50	58.4	117	46-154	
Naphthalene	ug/L	ND	50	46.0	92	44-138	
Tetrachloroethene	ug/L	ND	50	45.9	92	25-146	
Toluene	ug/L	ND	50	56.6	113	59-142	
trans-1,2-Dichloroethene	ug/L	ND	50	58.0	116	60-137	
Trichloroethene	ug/L	ND	50	55.5	111	61-137	
Vinyl chloride	ug/L	ND	50	62.6	125	51-144	
Xylene (Total)	ug/L	ND	150	163	109	44-152	
4-Bromofluorobenzene (S)	%				100	70-126	
Dibromofluoromethane (S)	%				103	80-123	
Toluene-d8 (S)	%				98	80-116	

QUALIFIERS

Project: M01046 / Michigan Plaza

Pace Project No.: 5024368

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.

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

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

ANALYTE QUALIFIERS

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

M3 Matrix spike recovery was outside laboratory control limits due to matrix interferences.



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:			Section B Required Project Information:			Section C Invoice Information:					
Company: Mundell & Associates	Report To: Leena Lothe	Attention: Leena Lothe	Company Name: Mundell	Company Address: Michigan Plaza	Company Address: Michigan Plaza	Company Address: Michigan Plaza	Company Address: Michigan Plaza	Company Address: Michigan Plaza			
Address: 110 S. Duane	Copy To: Leena Lothe	Copy To: Leena Lothe	Address: Michigan Plaza	Address: Michigan Plaza	Address: Michigan Plaza	Address: Michigan Plaza	Address: Michigan Plaza	Address: Michigan Plaza			
Email To: Leena Lothe	Purchase Order No.: 20046	Purchase Order No.: 20046	Project Name: Michigan Plaza	Project Name: Michigan Plaza	Project Name: Michigan Plaza	Project Name: Michigan Plaza	Project Name: Michigan Plaza	Project Name: Michigan Plaza			
Phone: 313-630-9600	Project Number: 20046	Project Number: 20046	Project Number: 20046	Project Number: 20046	Project Number: 20046	Project Number: 20046	Project Number: 20046	Project Number: 20046			
Requested Due Date/TAT: 2 WKS	Requested Due Date/TAT: 2 WKS	Requested Due Date/TAT: 2 WKS	Requested Due Date/TAT: 2 WKS	Requested Due Date/TAT: 2 WKS	Requested Due Date/TAT: 2 WKS	Requested Due Date/TAT: 2 WKS	Requested Due Date/TAT: 2 WKS	Requested Due Date/TAT: 2 WKS			
Section D Required Client Information			Section E Requested Analysis Filtered (Y/N)			Section F Requested Analysis Filtered (Y/N)					
Matrix Codes Drinking Water Waste Water Product Soil/Solid Oil Wipe Air Tissue Other	Matrix Codes DW WW P SL OL WP AR TS OT	Matrix Codes DW WW P SL OL WP AR TS OT	Matrix Codes DW WW P SL OL WP AR TS OT	Matrix Codes DW WW P SL OL WP AR TS OT	Matrix Codes DW WW P SL OL WP AR TS OT	Matrix Codes DW WW P SL OL WP AR TS OT	Matrix Codes DW WW P SL OL WP AR TS OT	Matrix Codes DW WW P SL OL WP AR TS OT			
SAMPLE ID (A-Z, 0-9, /, -) Sample IDs MUST BE UNIQUE			SAMPLE ID (A-Z, 0-9, /, -) Sample IDs MUST BE UNIQUE			SAMPLE ID (A-Z, 0-9, /, -) Sample IDs MUST BE UNIQUE			SAMPLE ID (A-Z, 0-9, /, -) Sample IDs MUST BE UNIQUE		
SAMPLE TYPE (G=GRAB C=COMP)			SAMPLE TYPE (G=GRAB C=COMP)			SAMPLE TYPE (G=GRAB C=COMP)			SAMPLE TYPE (G=GRAB C=COMP)		
MATRIX CODE (See valid codes to left)			MATRIX CODE (See valid codes to left)			MATRIX CODE (See valid codes to left)			MATRIX CODE (See valid codes to left)		
DATE			DATE			DATE			DATE		
TIME			TIME			TIME			TIME		
COMPOSITE START			COMPOSITE START			COMPOSITE START			COMPOSITE START		
COMPOSITE END/GRAB			COMPOSITE END/GRAB			COMPOSITE END/GRAB			COMPOSITE END/GRAB		
DATE			DATE			DATE			DATE		
TIME			TIME			TIME			TIME		
RELINQUISHED BY / AFFILIATION			RELINQUISHED BY / AFFILIATION			RELINQUISHED BY / AFFILIATION			RELINQUISHED BY / AFFILIATION		
DATE			DATE			DATE			DATE		
TIME			TIME			TIME			TIME		
ADDITIONAL COMMENTS			ADDITIONAL COMMENTS			ADDITIONAL COMMENTS			ADDITIONAL COMMENTS		
RECEIVED BY / AFFILIATION			RECEIVED BY / AFFILIATION			RECEIVED BY / AFFILIATION			RECEIVED BY / AFFILIATION		
DATE			DATE			DATE			DATE		
TIME			TIME			TIME			TIME		
SAMPLE CONDITIONS			SAMPLE CONDITIONS			SAMPLE CONDITIONS			SAMPLE CONDITIONS		
TEMP IN °C			TEMP IN °C			TEMP IN °C			TEMP IN °C		
RECEIVED ON			RECEIVED ON			RECEIVED ON			RECEIVED ON		
CUSTODY			CUSTODY			CUSTODY			CUSTODY		
SEAL COOLER			SEAL COOLER			SEAL COOLER			SEAL COOLER		
SAMPLES INTACT			SAMPLES INTACT			SAMPLES INTACT			SAMPLES INTACT		

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Mundell & Associates	Report To:	Leona Lothe	Attention:	Merle Tebbe
Address:	1105. Downey	Copy To:		Company Name:	Mundell
				Address:	
				Pace Quote Reference:	
		Purchase Order No.:		Pace Project Manager:	
				Pace Profile #:	
Phone:	517-630-9060	Project Name:	Michigan Plaza		
Fax:	517-630-9065	Project Number:	MO1046		
Requested Due Date/TAT:					

Section D Required Client Information		Matrix Codes MATRIX / CODE		SAMPLE TYPE (G=GRAB C=COMP)		COLLECTED		SAMPLE TEMP AT COLLECTION		PRESERVATIVES		Requested Analysis Filtered (Y/N)		Pace Project No. / Lab I.D.	
ITEM #	Sample ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Drinking Water DW	Waste Water WW	Product P	Soil/Solid SL	Oil OL	Wipe WP	Air AR	Tissue TS	Other OT	DATE	TIME	DATE	TIME	Residual Chlorine (Y/N)
1	MMW-P-08														
2	MMW-P-07														
3	MMW-P-01														
4	Dup 1														
5	Dup 2														
6	TB														
7															
8															
9															
10															
11															
12															

WT Chain 6/9/09

ORIGINAL

Pace Del.

sec First page

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: APRIL DANNERS / JENNA LOTHE

SIGNATURE of SAMPLER: [Signature]

DATE Signed (MM/DD/YYYY): 3/18/09

RELINQUISHED BY / AFFILIATION

Jim Amundall

DATE

3.19.08

TIME

11:10

ACCEPTED BY / AFFILIATION

Zakem Tekem

DATE

3/18/08

TIME

11:10

SAMPLE CONDITIONS

Y

ADDITIONAL COMMENTS

sec First page

Temp In °C

3.8

Received on

Y

Sealed Cooler

Y

Custody

Y

Samples Intact

Y

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 **forward** invoices not paid within 30 days.



Sample Condition Upon Receipt

Client Name: Mundell

Project # 5024368

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

Tracking #: _____

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

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

Thermometer Used

123456

Type of Ice: Wet Blue None

☐ Samples on ice, cooling process has begun

Cooler Temperature

3.8°C

Biological Tissue is Frozen: Yes ☒ No

Date and initials of person examining contents: 3/18/09

Temp should be above freezing to 6°C

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.
Samples Arrived within Hold Time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time Analysis (<72hr):	☒ Yes ☐ No ☐ N/A	6. <u>3/18/09</u>
Rush Turn Around Time Requested:	☐ Yes ☐ No ☒ N/A	7.
Sufficient Volume:	☒ Yes ☐ No ☐ N/A	8.
Correct Containers Used:	☒ Yes ☐ No ☐ N/A	9.
-Pace Containers Used:	☒ Yes ☐ No ☐ N/A	
Containers Intact:	☒ Yes ☐ No ☐ N/A	10.
Filtered volume received for Dissolved tests	☐ Yes ☐ No ☐ N/A	11.
Sample Labels match COC:	☒ Yes ☐ No ☐ N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>XXXXXX</u>	
All containers needing preservation have been checked.	☒ Yes ☐ No ☐ N/A	13. <u>3/18/09</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	☒ Yes ☐ No ☐ N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☒ Yes ☐ No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	☐ Yes ☐ No ☒ N/A	14.
Headspace in VOA Vials (>6mm):	☒ Yes ☐ No ☐ N/A	15. <u>2 - Trip Blanks has headspace</u>
Trip Blank Present:	☒ Yes ☐ No ☐ N/A	16.
Trip Blank Custody Seals Present	☒ Yes ☐ No ☐ N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____

Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: OB

Date: 3-18-09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

October 02, 2009

Case Narrative
Project 5024402 (Mundell & Associates, Inc.)

GC/MS Volatiles- Method 8260

Samples 5024402001 through 004 were first analyzed at a 10x dilution on 03/31/2009 beginning at 02:58 am. The samples were analyzed at a dilution due to their odor. The results of this initial analysis indicated that the samples had been over diluted. All four samples were then loaded, without dilution, onto another instrument on 03/31/2009 beginning at 12:13 pm. The results of the second analysis showed a significant matrix interference resulting in very poor purging efficiency. Chromatograms of each sample in question, along with the sample immediately following are attached to illustrate that the interference was matrix related and not a function of instrument condition. The matrix interference is believed to be an unknown contaminant that causes significant foaming of the sample when purged. As a result of this matrix interference, the samples were reported at the 10x dilution.



Beth Schrage
Quality Manager
Pace Analytical Services

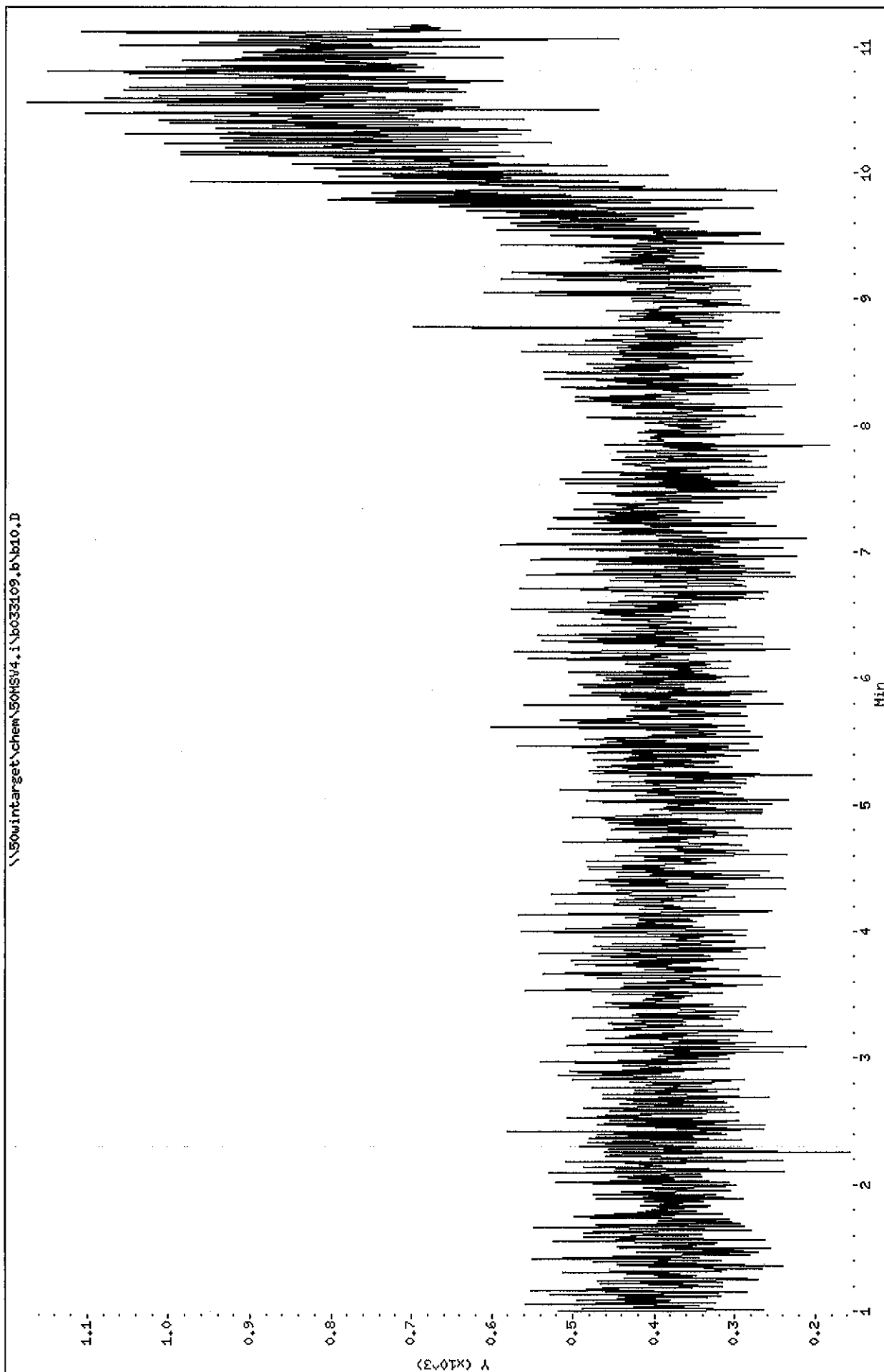
The review of this project and the associated case narrative are part of a review process for final reports that require a complete set of data deliverables. This process is completed by a member of the Quality Department as part of Pace Analytical's Indiana state requirements.

Data File: \\50wintarget\chem\50HSV4.i\b033109.b\b10.D
Date : 31-MAR-2009 12:13
Client ID: 02001
Sample Info: 5024402001
Purge Volume: 5.0
Column phase: DB-624

Page 1

Instrument: 50HSV4.i
Operator: slb
Column diameter: 0.18

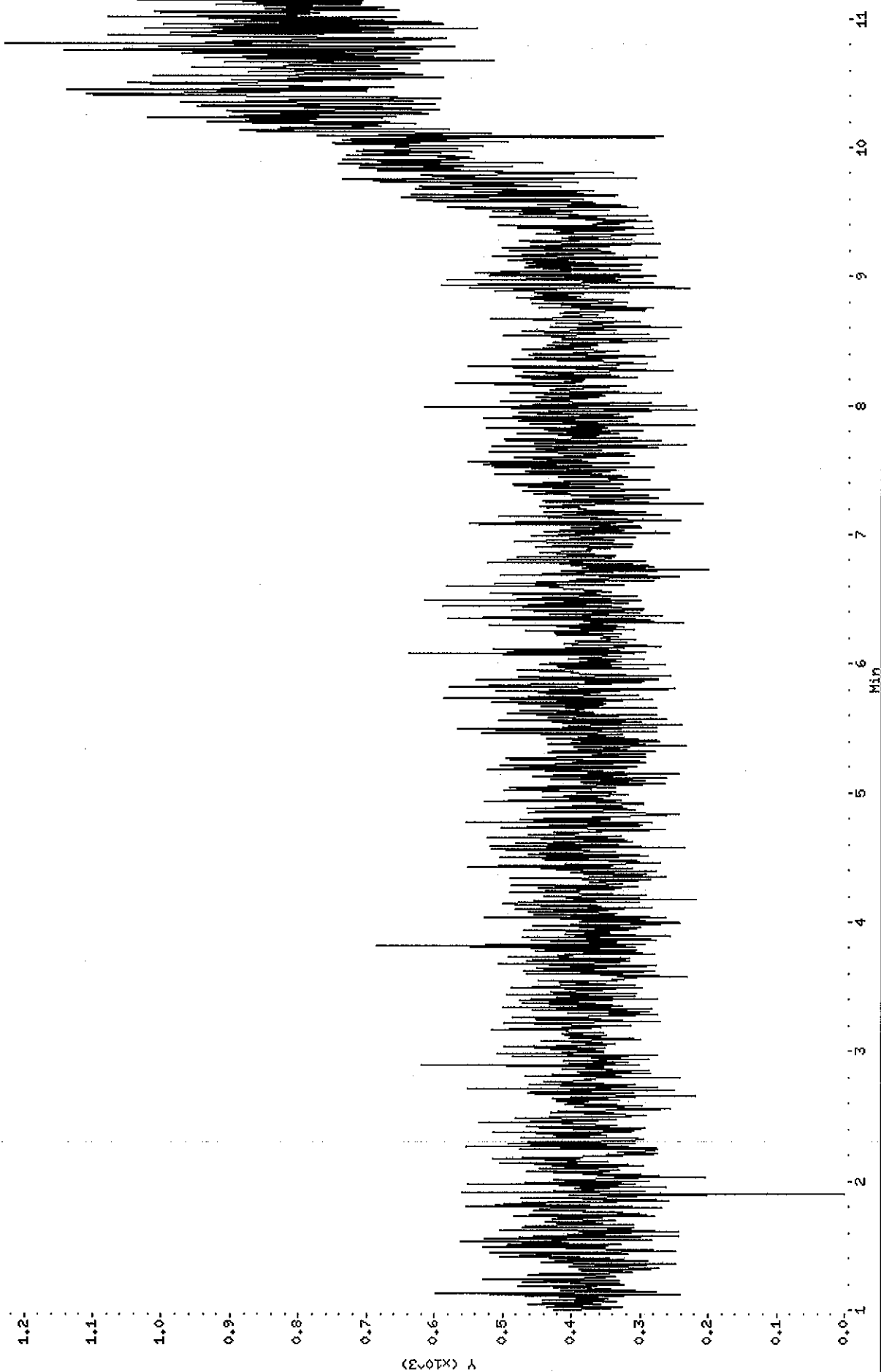
\\50wintarget\chem\50HSV4.i\b033109.b\b10.D



Data File: \\50wintarget\chem\50MSV4.i\b033109.b\b11.D
Date : 31-MAR-2009 12:43
Client ID: 02002
Sample Info: 5024402002
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV4.i
Operator: slb
Column diameter: 0.18

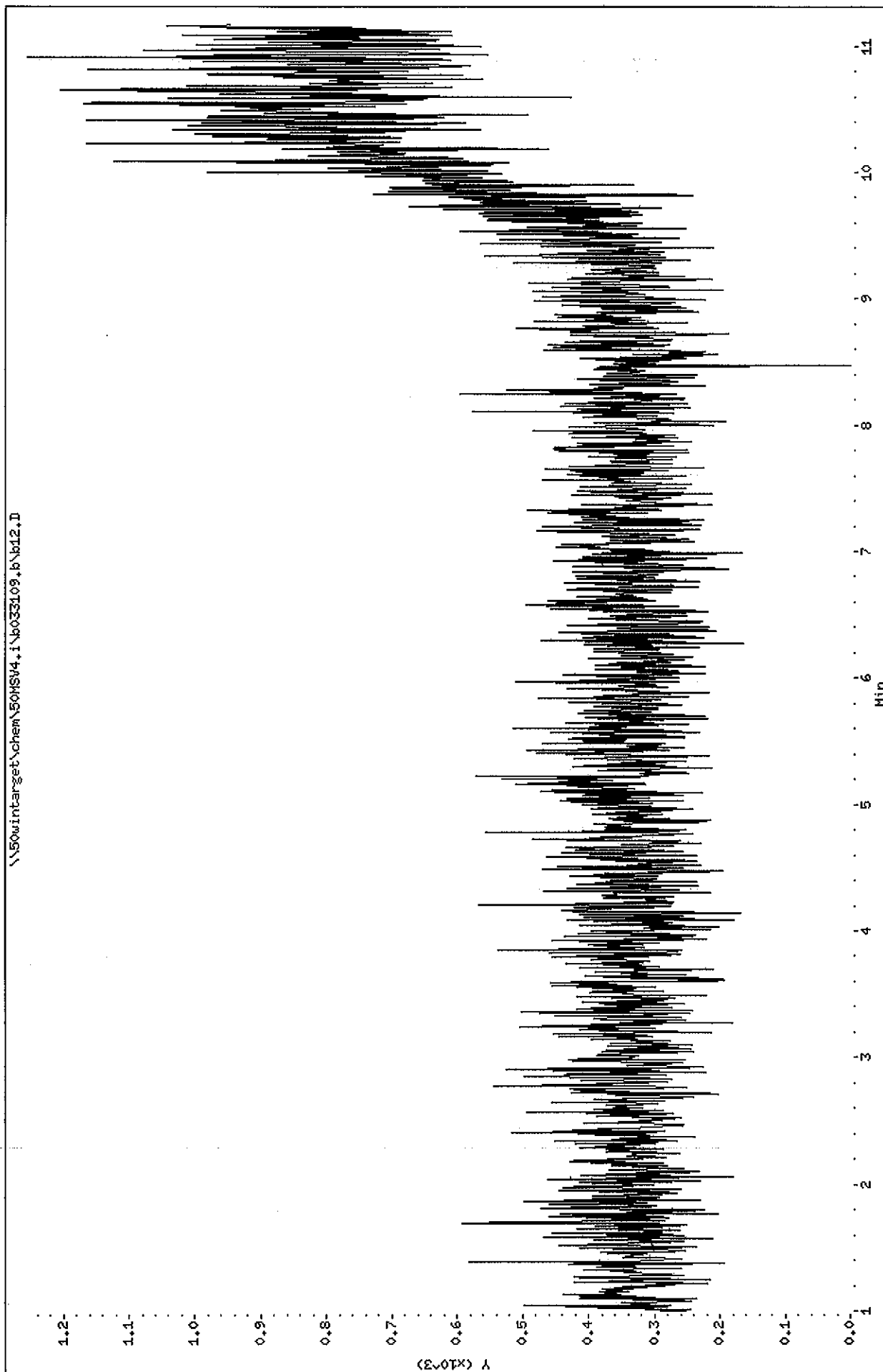
\\50wintarget\chem\50MSV4.i\b033109.b\b11.D



Data File: \\50wintarget\chem\50MSV4.i\b033109.b\b12.D
Date : 31-MAR-2009 13:13
Client ID: 02003
Sample Info: 5024402003
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50MSV4.i
Operator: slb
Column diameter: 0.18

\\50wintarget\chem\50MSV4.i\b033109.b\b12.D



Date : 31-MAR-2009 13:44

Client ID: 02004

Sample Info: 5024402004

Purge Volume: 5.0

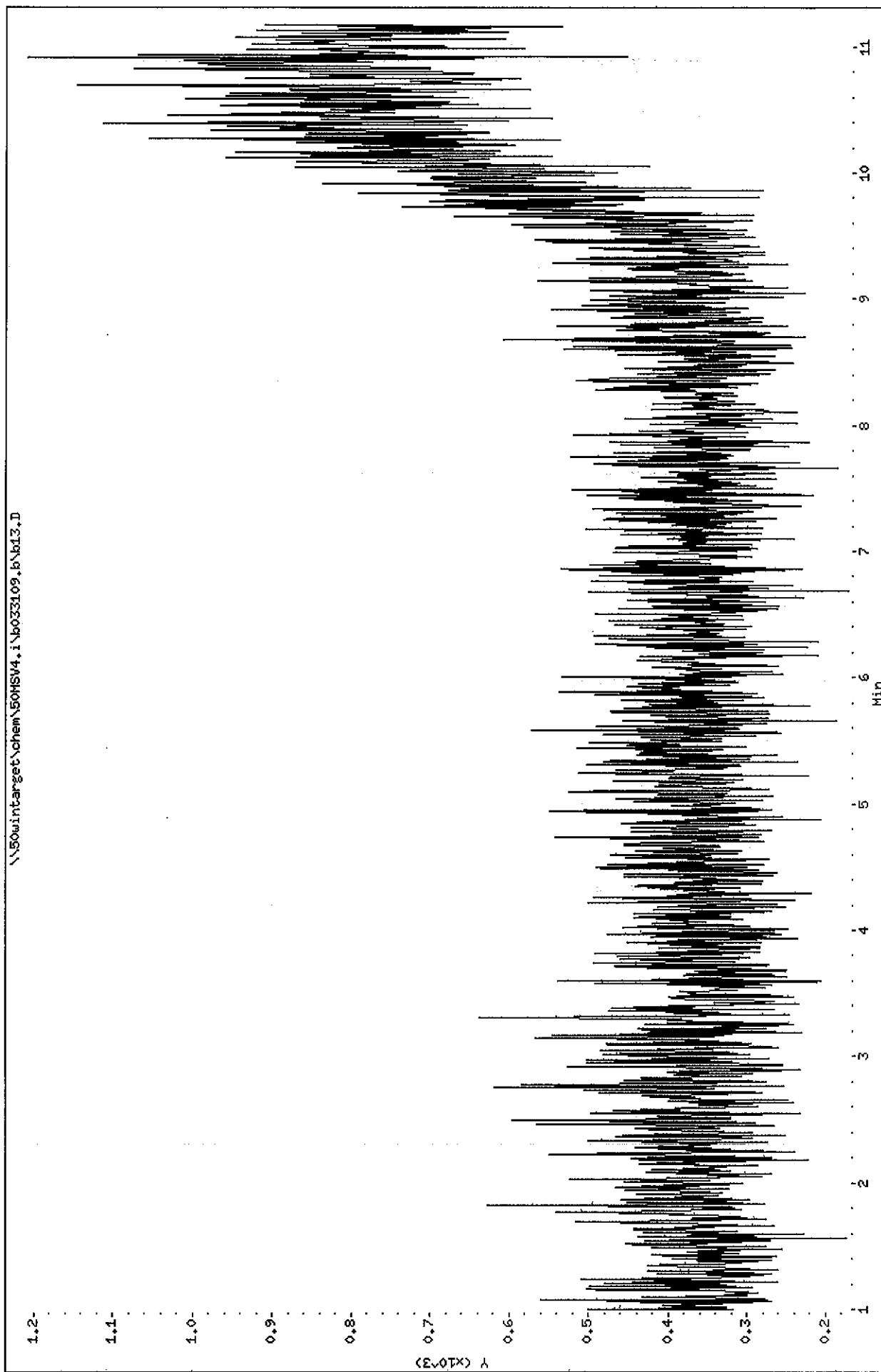
Column phase: DB-624

Instrument: 50HSV4.i

Operator: slb

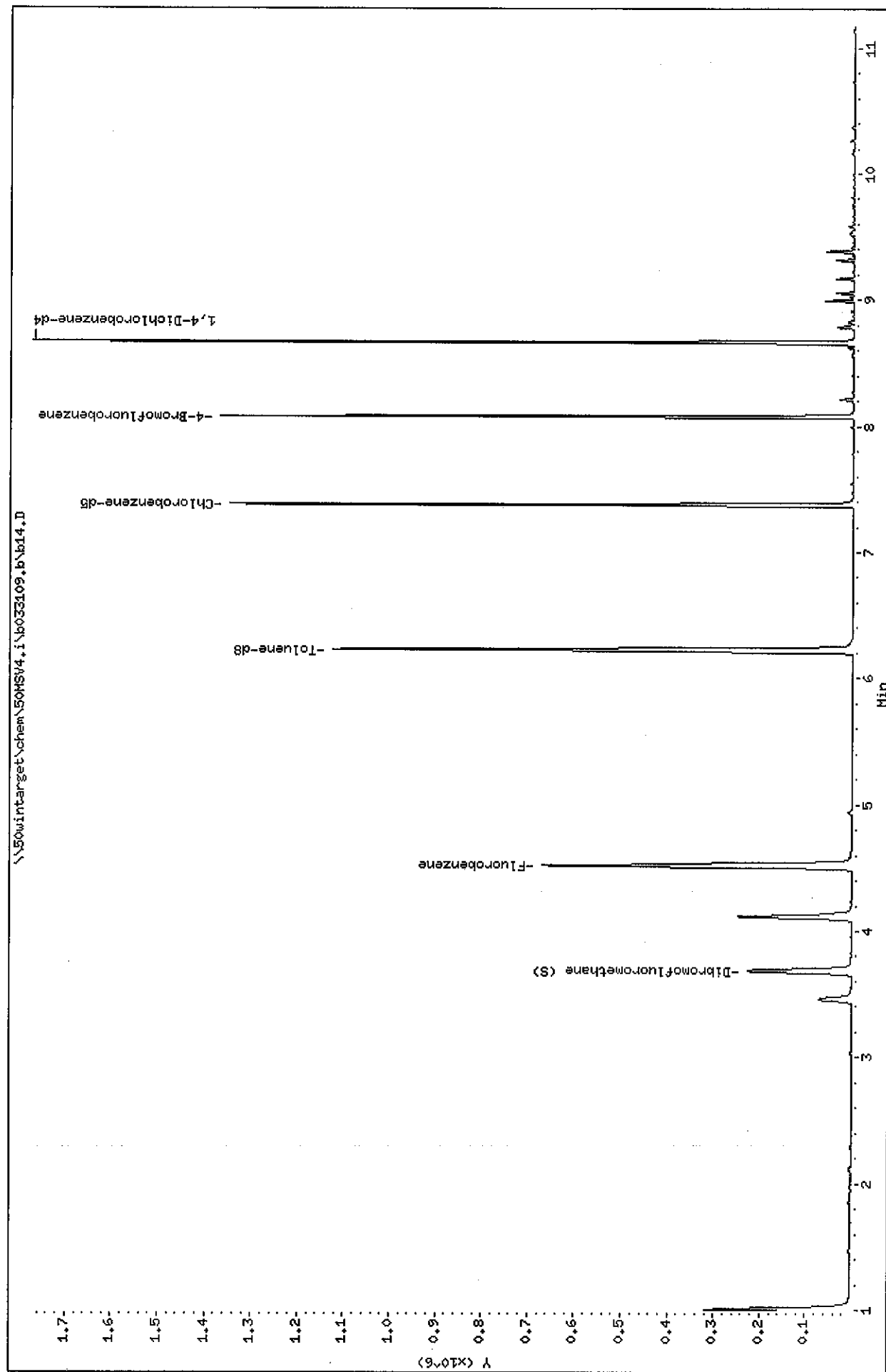
Column diameter: 0.18

\\50wintarget\chem\50HSV4.i\b033109.b\b13.D



Data File: \\50wintarget\chem\50HSV4.i\6033109.b\614.D
Date : 31-MAR-2009 14:15
Client ID: 13001
Sample Info: 5024513001
Purge Volume: 5.0
Column phase: DB-624

Instrument: 50HSV4.i
Operator: slb
Column diameter: 0.18



September 30, 2009

Leena Lothe
Mundell & Associates, Inc.
110 South Downey Avenue
Indianapolis, IN 46219

RE: Project: Michigan Plaza_Revised report; j-Flags added per client request. 9/30/09tms
Pace Project No.: 5024402

Dear Leena Lothe:

Enclosed are the analytical results for sample(s) received by the laboratory on March 19, 2009. The results relate only to the samples included in this report. 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,



Tina Sayer for
Phaedra Zucksworth
phaedra.zucksworth@pacelabs.com
Project Manager

Illinois/NELAC Certification #: 100418
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Ohio VAP: CL0065
Pennsylvania: 68-00791
West Virginia Certification #: 330

Enclosures

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Michigan Plaza

Pace Project No.: 5024402

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5024402001	SS-P-01	Water	03/18/09 14:30	03/19/09 11:57
5024402002	SS-A-01	Water	03/18/09 15:00	03/19/09 11:57
5024402003	SS-A-02	Water	03/18/09 14:55	03/19/09 11:57
5024402004	SS-A-03	Water	03/18/09 15:13	03/19/09 11:57

REPORT OF LABORATORY ANALYSIS

Page 2 of 10

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SAMPLE ANALYTE COUNT

Project: Michigan Plaza

Pace Project No.: 5024402

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5024402001	SS-P-01	EPA 8260	AMV	20
5024402002	SS-A-01	EPA 8260	AMV	20
5024402003	SS-A-02	EPA 8260	AMV	20
5024402004	SS-A-03	EPA 8260	AMV	20

REPORT OF LABORATORY ANALYSIS

Page 3 of 10

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ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5024402

Sample: SS-P-01		Lab ID: 5024402001	Collected: 03/18/09 14:30	Received: 03/19/09 11:57	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		03/31/09 02:58	71-43-2	3d
Carbon tetrachloride	ND	ug/L	50.0	10		03/31/09 02:58	56-23-5	
Chloroform	70.7	ug/L	50.0	10		03/31/09 02:58	67-66-3	
1,1-Dichloroethane	ND	ug/L	50.0	10		03/31/09 02:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	50.0	10		03/31/09 02:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	50.0	10		03/31/09 02:58	75-35-4	
cis-1,2-Dichloroethene	10.5J	ug/L	50.0	10		03/31/09 02:58	156-59-2	J
trans-1,2-Dichloroethene	ND	ug/L	50.0	10		03/31/09 02:58	156-60-5	
Ethylbenzene	ND	ug/L	50.0	10		03/31/09 02:58	100-41-4	
Methylene chloride	ND	ug/L	50.0	10		03/31/09 02:58	75-09-2	
Naphthalene	ND	ug/L	50.0	10		03/31/09 02:58	91-20-3	
Tetrachloroethene	ND	ug/L	50.0	10		03/31/09 02:58	127-18-4	4d
Toluene	ND	ug/L	50.0	10		03/31/09 02:58	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	50.0	10		03/31/09 02:58	71-55-6	
Trichloroethene	ND	ug/L	50.0	10		03/31/09 02:58	79-01-6	3d
Vinyl chloride	ND	ug/L	20.0	10		03/31/09 02:58	75-01-4	1d,2d
Xylene (Total)	ND	ug/L	100	10		03/31/09 02:58	1330-20-7	
Dibromofluoromethane (S)	102 %		80-123	10		03/31/09 02:58	1868-53-7	
4-Bromofluorobenzene (S)	102 %		70-126	10		03/31/09 02:58	460-00-4	
Toluene-d8 (S)	104 %		80-116	10		03/31/09 02:58	2037-26-5	

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5024402

Sample: SS-A-01		Lab ID: 5024402002	Collected: 03/18/09 15:00	Received: 03/19/09 11:57	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		03/31/09 03:32	71-43-2	3d
Carbon tetrachloride	ND ug/L		50.0	10		03/31/09 03:32	56-23-5	
Chloroform	ND ug/L		50.0	10		03/31/09 03:32	67-66-3	
1,1-Dichloroethane	ND ug/L		50.0	10		03/31/09 03:32	75-34-3	
1,2-Dichloroethane	ND ug/L		50.0	10		03/31/09 03:32	107-06-2	
1,1-Dichloroethene	ND ug/L		50.0	10		03/31/09 03:32	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		50.0	10		03/31/09 03:32	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		50.0	10		03/31/09 03:32	156-60-5	
Ethylbenzene	ND ug/L		50.0	10		03/31/09 03:32	100-41-4	
Methylene chloride	ND ug/L		50.0	10		03/31/09 03:32	75-09-2	
Naphthalene	ND ug/L		50.0	10		03/31/09 03:32	91-20-3	
Tetrachloroethene	ND ug/L		50.0	10		03/31/09 03:32	127-18-4	4d
Toluene	ND ug/L		50.0	10		03/31/09 03:32	108-88-3	
1,1,1-Trichloroethane	ND ug/L		50.0	10		03/31/09 03:32	71-55-6	
Trichloroethene	ND ug/L		50.0	10		03/31/09 03:32	79-01-6	3d
Vinyl chloride	ND ug/L		20.0	10		03/31/09 03:32	75-01-4	1d,2d
Xylene (Total)	ND ug/L		100	10		03/31/09 03:32	1330-20-7	
Dibromofluoromethane (S)	102 %		80-123	10		03/31/09 03:32	1868-53-7	
4-Bromofluorobenzene (S)	102 %		70-126	10		03/31/09 03:32	460-00-4	
Toluene-d8 (S)	101 %		80-116	10		03/31/09 03:32	2037-26-5	

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5024402

Sample: SS-A-02		Lab ID: 5024402003	Collected: 03/18/09 14:55	Received: 03/19/09 11:57	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		03/31/09 04:06	71-43-2	3d
Carbon tetrachloride	ND ug/L		50.0	10		03/31/09 04:06	56-23-5	
Chloroform	ND ug/L		50.0	10		03/31/09 04:06	67-66-3	
1,1-Dichloroethane	ND ug/L		50.0	10		03/31/09 04:06	75-34-3	
1,2-Dichloroethane	ND ug/L		50.0	10		03/31/09 04:06	107-06-2	
1,1-Dichloroethene	ND ug/L		50.0	10		03/31/09 04:06	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		50.0	10		03/31/09 04:06	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		50.0	10		03/31/09 04:06	156-60-5	
Ethylbenzene	ND ug/L		50.0	10		03/31/09 04:06	100-41-4	
Methylene chloride	ND ug/L		50.0	10		03/31/09 04:06	75-09-2	
Naphthalene	ND ug/L		50.0	10		03/31/09 04:06	91-20-3	
Tetrachloroethene	ND ug/L		50.0	10		03/31/09 04:06	127-18-4	4d
Toluene	ND ug/L		50.0	10		03/31/09 04:06	108-88-3	
1,1,1-Trichloroethane	ND ug/L		50.0	10		03/31/09 04:06	71-55-6	
Trichloroethene	ND ug/L		50.0	10		03/31/09 04:06	79-01-6	3d
Vinyl chloride	ND ug/L		20.0	10		03/31/09 04:06	75-01-4	1d,2d
Xylene (Total)	ND ug/L		100	10		03/31/09 04:06	1330-20-7	
Dibromofluoromethane (S)	103 %		80-123	10		03/31/09 04:06	1868-53-7	
4-Bromofluorobenzene (S)	100 %		70-126	10		03/31/09 04:06	460-00-4	
Toluene-d8 (S)	102 %		80-116	10		03/31/09 04:06	2037-26-5	

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5024402

Sample: SS-A-03		Lab ID: 5024402004	Collected: 03/18/09 15:13	Received: 03/19/09 11:57	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		03/31/09 04:39	71-43-2	3d
Carbon tetrachloride	ND ug/L		50.0	10		03/31/09 04:39	56-23-5	
Chloroform	ND ug/L		50.0	10		03/31/09 04:39	67-66-3	
1,1-Dichloroethane	ND ug/L		50.0	10		03/31/09 04:39	75-34-3	
1,2-Dichloroethane	ND ug/L		50.0	10		03/31/09 04:39	107-06-2	
1,1-Dichloroethene	ND ug/L		50.0	10		03/31/09 04:39	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		50.0	10		03/31/09 04:39	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		50.0	10		03/31/09 04:39	156-60-5	
Ethylbenzene	ND ug/L		50.0	10		03/31/09 04:39	100-41-4	
Methylene chloride	ND ug/L		50.0	10		03/31/09 04:39	75-09-2	
Naphthalene	ND ug/L		50.0	10		03/31/09 04:39	91-20-3	
Tetrachloroethene	ND ug/L		50.0	10		03/31/09 04:39	127-18-4	4d
Toluene	ND ug/L		50.0	10		03/31/09 04:39	108-88-3	
1,1,1-Trichloroethane	ND ug/L		50.0	10		03/31/09 04:39	71-55-6	
Trichloroethene	ND ug/L		50.0	10		03/31/09 04:39	79-01-6	3d
Vinyl chloride	ND ug/L		20.0	10		03/31/09 04:39	75-01-4	1d,2d
Xylene (Total)	ND ug/L		100	10		03/31/09 04:39	1330-20-7	
Dibromofluoromethane (S)	103 %		80-123	10		03/31/09 04:39	1868-53-7	
4-Bromofluorobenzene (S)	100 %		70-126	10		03/31/09 04:39	460-00-4	
Toluene-d8 (S)	103 %		80-116	10		03/31/09 04:39	2037-26-5	

QUALITY CONTROL DATA

Project: Michigan Plaza

Pace Project No.: 5024402

QC Batch: MSV/15262 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5024402001, 5024402002, 5024402003, 5024402004

METHOD BLANK: 281391 Matrix: Water

Associated Lab Samples: 5024402001, 5024402002, 5024402003, 5024402004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	03/31/09 01:16	
1,1-Dichloroethane	ug/L	ND	5.0	03/31/09 01:16	
1,1-Dichloroethene	ug/L	ND	5.0	03/31/09 01:16	
1,2-Dichloroethane	ug/L	ND	5.0	03/31/09 01:16	
Benzene	ug/L	ND	5.0	03/31/09 01:16	
Carbon tetrachloride	ug/L	ND	5.0	03/31/09 01:16	
Chloroform	ug/L	ND	5.0	03/31/09 01:16	
cis-1,2-Dichloroethene	ug/L	ND	5.0	03/31/09 01:16	
Ethylbenzene	ug/L	ND	5.0	03/31/09 01:16	
Methylene chloride	ug/L	ND	5.0	03/31/09 01:16	
Naphthalene	ug/L	ND	5.0	03/31/09 01:16	
Tetrachloroethene	ug/L	ND	5.0	03/31/09 01:16	
Toluene	ug/L	ND	5.0	03/31/09 01:16	
trans-1,2-Dichloroethene	ug/L	ND	5.0	03/31/09 01:16	
Trichloroethene	ug/L	ND	5.0	03/31/09 01:16	
Vinyl chloride	ug/L	ND	2.0	03/31/09 01:16	
Xylene (Total)	ug/L	ND	10.0	03/31/09 01:16	
4-Bromofluorobenzene (S)	%	102	70-126	03/31/09 01:16	
Dibromofluoromethane (S)	%	102	80-123	03/31/09 01:16	
Toluene-d8 (S)	%	102	80-116	03/31/09 01:16	

LABORATORY CONTROL SAMPLE: 281392

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	54.4	109	69-136	
1,1-Dichloroethane	ug/L	50	56.0	112	67-133	
1,1-Dichloroethene	ug/L	50	62.4	125	63-128	
1,2-Dichloroethane	ug/L	50	56.7	113	69-139	
Benzene	ug/L	50	56.6	113	78-127	
Carbon tetrachloride	ug/L	50	57.7	115	62-143	
Chloroform	ug/L	50	59.1	118	74-131	
cis-1,2-Dichloroethene	ug/L	50	58.2	116	74-128	
Ethylbenzene	ug/L	50	57.7	115	81-126	
Methylene chloride	ug/L	50	55.5	111	32-164	
Naphthalene	ug/L	50	45.6	91	61-135	
Tetrachloroethene	ug/L	50	51.6	103	60-119	
Toluene	ug/L	50	55.7	111	75-129	
trans-1,2-Dichloroethene	ug/L	50	61.5	123	71-126	
Trichloroethene	ug/L	50	56.9	114	74-130	
Vinyl chloride	ug/L	50	61.7	123	55-141	
Xylene (Total)	ug/L	150	165	110	76-132	

Date: 09/30/2009 10:04 AM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Michigan Plaza

Pace Project No.: 5024402

LABORATORY CONTROL SAMPLE: 281392

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			101	70-126	
Dibromofluoromethane (S)	%			105	80-123	
Toluene-d8 (S)	%			99	80-116	

QUALIFIERS

Project: Michigan Plaza

Pace Project No.: 5024402

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.

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

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

ANALYTE QUALIFIERS

1d	Analysis at a lower dilution was not reportable due to foaming of the sample. AMV 4-1-09
2d	evaluated to 17.9 ug/L per MDL. AMV 4-1-09
3d	evaluated to 5 ug/L per MDL. AMV 4-1-09
4d	evaluated to 5.8 ug/L per MDL. AMV 4-1-09
J	Analyte detected below reporting limit, therefore result is an estimate.

April 03, 2009

Leena Lothe
Mundell & Associates, Inc.
110 South Downey Avenue
Indianapolis, IN 46219

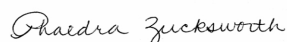
RE: Project: Michigan Plaza
Pace Project No.: 5024404

Dear Leena Lothe:

Enclosed are the analytical results for sample(s) received by the laboratory on March 19, 2009. The results relate only to the samples included in this report. 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,



Phaedra Zucksworth

phaedra.zucksworth@pacelabs.com
Project Manager

Illinois/NELAC Certification #: 100418

Indiana Certification #: C-49-06

Kansas Certification #: E-10247

Kentucky Certification #: 0042

Ohio VAP: CL0065

Pennsylvania: 68-00791

West Virginia Certification #: 330

Enclosures

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Michigan Plaza

Pace Project No.: 5024404

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5024404001	MMW-14D	Water	03/18/09 12:30	03/19/09 11:57
5024404002	MMW-P-04	Water	03/18/09 13:30	03/19/09 11:57
5024404003	EQ BLANK	Water	03/18/09 13:00	03/19/09 11:57
5024404004	TRIP BLANK	Water	03/18/09 08:00	03/19/09 11:57

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Michigan Plaza

Pace Project No.: 5024404

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5024404001	MMW-14D	EPA 8260	AMV	20
5024404002	MMW-P-04	EPA 8260	AMV	20
5024404003	EQ BLANK	EPA 8260	AMV	20
5024404004	TRIP BLANK	EPA 8260	AMV	20

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5024404

Sample: MMW-14D		Lab ID: 5024404001	Collected: 03/18/09 12:30	Received: 03/19/09 11:57	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		03/31/09 05:13	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/31/09 05:13	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/31/09 05:13	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/31/09 05:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/31/09 05:13	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/31/09 05:13	75-35-4	
cis-1,2-Dichloroethene	454	ug/L	50.0	10		03/31/09 14:57	156-59-2	
trans-1,2-Dichloroethene	9.9	ug/L	5.0	1		03/31/09 05:13	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/31/09 05:13	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		03/31/09 05:13	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/31/09 05:13	91-20-3	
Tetrachloroethene	ND	ug/L	5.0	1		03/31/09 05:13	127-18-4	
Toluene	ND	ug/L	5.0	1		03/31/09 05:13	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/31/09 05:13	71-55-6	
Trichloroethene	ND	ug/L	5.0	1		03/31/09 05:13	79-01-6	
Vinyl chloride	70.0	ug/L	2.0	1		03/31/09 05:13	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/31/09 05:13	1330-20-7	
Dibromofluoromethane (S)	101	%	80-123	1		03/31/09 05:13	1868-53-7	
4-Bromofluorobenzene (S)	100	%	70-126	1		03/31/09 05:13	460-00-4	
Toluene-d8 (S)	102	%	80-116	1		03/31/09 05:13	2037-26-5	

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5024404

Sample: MMW-P-04		Lab ID: 5024404002	Collected: 03/18/09 13:30	Received: 03/19/09 11:57	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		03/31/09 05:47	71-43-2	
Carbon tetrachloride	ND	ug/L	5.0	1		03/31/09 05:47	56-23-5	
Chloroform	ND	ug/L	5.0	1		03/31/09 05:47	67-66-3	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/31/09 05:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/31/09 05:47	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/31/09 05:47	75-35-4	
cis-1,2-Dichloroethene	304	ug/L	50.0	10		03/31/09 15:31	156-59-2	
trans-1,2-Dichloroethene	10.8	ug/L	5.0	1		03/31/09 05:47	156-60-5	
Ethylbenzene	ND	ug/L	5.0	1		03/31/09 05:47	100-41-4	
Methylene chloride	ND	ug/L	5.0	1		03/31/09 05:47	75-09-2	
Naphthalene	ND	ug/L	5.0	1		03/31/09 05:47	91-20-3	
Tetrachloroethene	19.4	ug/L	5.0	1		03/31/09 05:47	127-18-4	
Toluene	ND	ug/L	5.0	1		03/31/09 05:47	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/31/09 05:47	71-55-6	
Trichloroethene	5.4	ug/L	5.0	1		03/31/09 05:47	79-01-6	
Vinyl chloride	ND	ug/L	2.0	1		03/31/09 05:47	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		03/31/09 05:47	1330-20-7	
Dibromofluoromethane (S)	102	%	80-123	1		03/31/09 05:47	1868-53-7	
4-Bromofluorobenzene (S)	103	%	70-126	1		03/31/09 05:47	460-00-4	
Toluene-d8 (S)	104	%	80-116	1		03/31/09 05:47	2037-26-5	

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5024404

Sample: EQ BLANK		Lab ID: 5024404003	Collected: 03/18/09 13:00	Received: 03/19/09 11:57	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		03/31/09 06:21	71-43-2	
Carbon tetrachloride	ND ug/L		5.0	1		03/31/09 06:21	56-23-5	
Chloroform	ND ug/L		5.0	1		03/31/09 06:21	67-66-3	
1,1-Dichloroethane	ND ug/L		5.0	1		03/31/09 06:21	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		03/31/09 06:21	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		03/31/09 06:21	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		03/31/09 06:21	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		03/31/09 06:21	156-60-5	
Ethylbenzene	ND ug/L		5.0	1		03/31/09 06:21	100-41-4	
Methylene chloride	ND ug/L		5.0	1		03/31/09 06:21	75-09-2	
Naphthalene	ND ug/L		5.0	1		03/31/09 06:21	91-20-3	
Tetrachloroethene	ND ug/L		5.0	1		03/31/09 06:21	127-18-4	
Toluene	ND ug/L		5.0	1		03/31/09 06:21	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		03/31/09 06:21	71-55-6	
Trichloroethene	ND ug/L		5.0	1		03/31/09 06:21	79-01-6	
Vinyl chloride	ND ug/L		2.0	1		03/31/09 06:21	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		03/31/09 06:21	1330-20-7	
Dibromofluoromethane (S)	103 %		80-123	1		03/31/09 06:21	1868-53-7	
4-Bromofluorobenzene (S)	100 %		70-126	1		03/31/09 06:21	460-00-4	
Toluene-d8 (S)	102 %		80-116	1		03/31/09 06:21	2037-26-5	

ANALYTICAL RESULTS

Project: Michigan Plaza

Pace Project No.: 5024404

Sample: TRIP BLANK		Lab ID: 5024404004	Collected: 03/18/09 08:00	Received: 03/19/09 11:57	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		03/31/09 06:55	71-43-2	
Carbon tetrachloride	ND ug/L		5.0	1		03/31/09 06:55	56-23-5	
Chloroform	ND ug/L		5.0	1		03/31/09 06:55	67-66-3	
1,1-Dichloroethane	ND ug/L		5.0	1		03/31/09 06:55	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		03/31/09 06:55	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		03/31/09 06:55	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		03/31/09 06:55	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		03/31/09 06:55	156-60-5	
Ethylbenzene	ND ug/L		5.0	1		03/31/09 06:55	100-41-4	
Methylene chloride	ND ug/L		5.0	1		03/31/09 06:55	75-09-2	
Naphthalene	ND ug/L		5.0	1		03/31/09 06:55	91-20-3	
Tetrachloroethene	ND ug/L		5.0	1		03/31/09 06:55	127-18-4	
Toluene	ND ug/L		5.0	1		03/31/09 06:55	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		03/31/09 06:55	71-55-6	
Trichloroethene	ND ug/L		5.0	1		03/31/09 06:55	79-01-6	
Vinyl chloride	ND ug/L		2.0	1		03/31/09 06:55	75-01-4	
Xylene (Total)	ND ug/L		10.0	1		03/31/09 06:55	1330-20-7	
Dibromofluoromethane (S)	103 %		80-123	1		03/31/09 06:55	1868-53-7	
4-Bromofluorobenzene (S)	101 %		70-126	1		03/31/09 06:55	460-00-4	
Toluene-d8 (S)	102 %		80-116	1		03/31/09 06:55	2037-26-5	

QUALITY CONTROL DATA

Project: Michigan Plaza
Pace Project No.: 5024404

QC Batch: MSV/15262 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 5024404001, 5024404002, 5024404003, 5024404004

METHOD BLANK: 281391 Matrix: Water
Associated Lab Samples: 5024404001, 5024404002, 5024404003, 5024404004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	03/31/09 01:16	
1,1-Dichloroethane	ug/L	ND	5.0	03/31/09 01:16	
1,1-Dichloroethene	ug/L	ND	5.0	03/31/09 01:16	
1,2-Dichloroethane	ug/L	ND	5.0	03/31/09 01:16	
Benzene	ug/L	ND	5.0	03/31/09 01:16	
Carbon tetrachloride	ug/L	ND	5.0	03/31/09 01:16	
Chloroform	ug/L	ND	5.0	03/31/09 01:16	
cis-1,2-Dichloroethene	ug/L	ND	5.0	03/31/09 01:16	
Ethylbenzene	ug/L	ND	5.0	03/31/09 01:16	
Methylene chloride	ug/L	ND	5.0	03/31/09 01:16	
Naphthalene	ug/L	ND	5.0	03/31/09 01:16	
Tetrachloroethene	ug/L	ND	5.0	03/31/09 01:16	
Toluene	ug/L	ND	5.0	03/31/09 01:16	
trans-1,2-Dichloroethene	ug/L	ND	5.0	03/31/09 01:16	
Trichloroethene	ug/L	ND	5.0	03/31/09 01:16	
Vinyl chloride	ug/L	ND	2.0	03/31/09 01:16	
Xylene (Total)	ug/L	ND	10.0	03/31/09 01:16	
4-Bromofluorobenzene (S)	%	102	70-126	03/31/09 01:16	
Dibromofluoromethane (S)	%	102	80-123	03/31/09 01:16	
Toluene-d8 (S)	%	102	80-116	03/31/09 01:16	

LABORATORY CONTROL SAMPLE: 281392

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	54.4	109	69-136	
1,1-Dichloroethane	ug/L	50	56.0	112	67-133	
1,1-Dichloroethene	ug/L	50	62.4	125	63-128	
1,2-Dichloroethane	ug/L	50	56.7	113	69-139	
Benzene	ug/L	50	56.6	113	78-127	
Carbon tetrachloride	ug/L	50	57.7	115	62-143	
Chloroform	ug/L	50	59.1	118	74-131	
cis-1,2-Dichloroethene	ug/L	50	58.2	116	74-128	
Ethylbenzene	ug/L	50	57.7	115	81-126	
Methylene chloride	ug/L	50	55.5	111	32-164	
Naphthalene	ug/L	50	45.6	91	61-135	
Tetrachloroethene	ug/L	50	51.6	103	60-119	
Toluene	ug/L	50	55.7	111	75-129	
trans-1,2-Dichloroethene	ug/L	50	61.5	123	71-126	
Trichloroethene	ug/L	50	56.9	114	74-130	
Vinyl chloride	ug/L	50	61.7	123	55-141	
Xylene (Total)	ug/L	150	165	110	76-132	

Date: 04/03/2009 03:17 PM

REPORT OF LABORATORY ANALYSIS

Page 8 of 10

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QUALITY CONTROL DATA

Project: Michigan Plaza

Pace Project No.: 5024404

LABORATORY CONTROL SAMPLE: 281392

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			101	70-126	
Dibromofluoromethane (S)	%			105	80-123	
Toluene-d8 (S)	%			99	80-116	

QUALIFIERS

Project: Michigan Plaza

Pace Project No.: 5024404

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.

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

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information: Company: <u>Murdell Associates</u> Address: <u>110 S. Danvers Ave.</u> Email To: <u>Emile, JAL 4/6/219</u> Phone: <u>377-6330-9000</u> Fax: <u>377-6330-9005</u> Requested Due Date/TAT: <u>2 Wks</u>		Section B Required Project Information: Report To: <u>Leanne Lohr</u> Copy To: <u></u> Purchase Order No.: <u></u> Project Name: <u>Michigan Plaza</u> Project Number: <u>MO1096</u>		Section C Invoice Information: Attention: <u>Mark Tebbe</u> Company Name: <u>Murdell</u> Address: <u></u> Pace Quote Reference: <u></u> Pace Project Manager: <u></u> Pace Profile #: <u></u>	
REGULATORY AGENCY ☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER <u></u>		Site Location STATE: <u>IN</u>		Page: <u>1</u> of <u>1</u> 1247702	

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE Drinking Water DW Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Tissue TS Other OT	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test ↑ Y/N ↓	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
			DATE	TIME			DATE	TIME	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH			
1	Mmuw-14D		3/19/09	12:30p		3										5024404
2	Mmuw-D-04		3/19/09	1:30p		1										001
3	EQ Blank			1:00p		1										002
4	Tap Blank					1										003
5																004
6																
7																
8																
9																
10																
11																
12																

ADDITIONAL COMMENTS See attached sheet list		RELINQUISHED BY / AFFILIATION [Signature]		DATE 3/19/09		TIME 11:57		ACCEPTED BY / AFFILIATION [Signature]		DATE 3/19/09		TIME 11:57		SAMPLE CONDITIONS Received on <u>3/19/09</u> <u>11:57</u> <u>23</u> <u>Y</u> <u>N</u> <u>Y</u>		Temp in °C <u></u>		Received on <u></u> <u></u> <u></u> <u></u> <u></u> <u></u>		Sealed Cooler (Y/N) <u></u>		Custody (Y/N) <u></u>		Samples Intact (Y/N) <u></u>	
SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: <u>Andy Dammeyer</u> SIGNATURE of SAMPLER: <u>[Signature]</u> DATE Signed (MM/DD/YY): <u>3/19/09</u>																									



Sample Condition Upon Receipt

Client Name: Mundell

Project # 5024404

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

Tracking #: _____

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

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

Thermometer Used 123456

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

Cooler Temperature 2-3C

Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: 3/19/09

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.
Samples Arrived within Hold Time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time Analysis (<72hr):	☐ Yes ☐ No ☒ N/A	6.
Rush Turn Around Time Requested:	☐ Yes ☐ No ☒ N/A	7.
Sufficient Volume:	☒ Yes ☐ No ☐ N/A	8.
Correct Containers Used:	☒ Yes ☐ No ☐ N/A	9.
-Pace Containers Used:	☒ Yes ☐ No ☐ N/A	
Containers Intact:	☒ Yes ☐ No ☐ N/A	10.
Filtered volume received for Dissolved tests	☐ Yes ☐ No ☒ N/A	11.
Sample Labels match COC:	☒ Yes ☐ No ☐ N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>WT</u>		
All containers needing preservation have been checked.	☐ Yes ☐ No ☒ N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes ☐ No ☒ N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☒ Yes ☐ No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	☐ Yes ☐ No ☒ N/A	14.
Headspace in VOA Vials (>6mm):	☐ Yes ☒ No ☐ N/A	15.
Trip Blank Present:	☒ Yes ☐ No ☐ N/A	16.
Trip Blank Custody Seals Present	☐ Yes ☒ No ☐ N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: 3/19/09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

APPENDIX B

SOIL BORING LOGS



BORING NUMBER: SB-1

CLIENT: MIDWAY	FIELD GEOLOGIST: LL/AD
PROJECT LOCATION: Indianapolis, IN	DATE BEGAN: 2/3/09
PROJECT NAME: Michigan Meadows Apartments	DATE FINISHED: 2/3/09
PROJECT NUMBER: M01046	DRILLING METHOD: Geoprobe
DRILLING CONTRACTOR: Midway	DRILLING EQUIPMENT: LT-50
DRILLER: Mark / Corrie	GW DEPTH (OBSERVED):
BORING LOCATION:	SURFACE ELEVATION:
SHEET 1 OF 1	

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID	Notes
0			GRAVEL						
	CL		SILTY CLAY, SAND, GRAVEL		3.1	25%			
5			(10YR 4/4), dry, SAND, fine to coarse grained, no odor	4	0.0				
					5.2	0			
					5.9				
					9.6 *				
					0.0				* Soil sample from 7-8 ft-bgs submitted for laboratory analysis.
					0.0				
10	SW				13.9	0			
					24.4 *				
					0.0				* Soil sample from 11-12 ft-bgs submitted for laboratory analysis.
					0.0				
15					26.2 *	0			
					23.2				* Soil sample from 14-15 ft-bgs submitted for laboratory analysis.
					0.0				
					0.0	25%			
20			Refusal at 19 ft	19	23.9				
			SP-15 down for the water sample.						
									Water Sample at 23 ft

TPV = Total Photo-Ionization Vapors
TFV = Total Flame-Ionization Vapors
PPM = Parts Per Million
BGS = Below Ground Surface
USCS = United Soil Classification System

Water Level Observations:
Noted on Rods:
At Completion:



BORING NUMBER: SB-2

CLIENT: AIMCO	FIELD GEOLOGIST: LL/AD
PROJECT LOCATION: Indianapolis, IN	DATE BEGAN: 2/3/09
PROJECT NAME: Michigan Meadows Apartments	DATE FINISHED: 2/3/09
PROJECT NUMBER: M01046	DRILLING METHOD:
DRILLING CONTRACTOR: Midway	DRILLING EQUIPMENT: LT-50
DRILLER: Mark / Corrie	GW DEPTH (OBSERVED):
BORING LOCATION:	SURFACE ELEVATION:
SHEET 1 OF 1	

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID	Notes
0	CL		4 Inches of concrete.	2		25			
			PEA GRAVEL aprox 2-3"						
			Base course.		2.0				
	SW		Possible fill 2 inches.	7	10.8	55			* Soil sample from 6-7 ft-bgs submitted for laboratory analysis.
			Yellowish brown (10YR 4/4), dry, no odor		5.6				
5			Dry, SILTY CLAY with trace SAND and GRAVEL,, no odor						
			Dark yellowish brown (10YR 4/3), dry, SAND, , fine to coarse grained, no odor		3.6	50			* Soil sample from 11-12 ft-bgs submitted for laboratory analysis.
10					7.8				
					6.8				
					5.5	50			* Soil sample from 15-16 ft-bgs submitted for laboratory analysis.
15					8.2				
					7.2	55			
					8.8				
20			Slight Yellowish Orange at 19"		7.4				
					6.5				
					8.7				
					9.8				* Water sample at 23 ft-bgs submitted for laboratory analysis.
					8.8				
					8.2				
					9.9				
					10.1				
25									
30			End of Boring						

TPV = Total Photo-Ionization Vapors
TFV = Total Flame-Ionization Vapors
PPM = Parts Per Million
BGS = Below Ground Surface
USCS = United Soil Classification System

Water Level Observations:
Noted on Rods:
At Completion:



BORING NUMBER: SB-3

CLIENT: AIMCO	FIELD GEOLOGIST: LL/AD
PROJECT LOCATION: Indianapolis, IN	DATE BEGAN: 2/3/09
PROJECT NAME: Michigan Meadows Apartments	DATE FINISHED: 2/3/09
PROJECT NUMBER: M01046	DRILLING METHOD:
DRILLING CONTRACTOR: Midway	DRILLING EQUIPMENT: LT-50
DRILLER: Mark / Corrie	GW DEPTH (OBSERVED):
BORING LOCATION:	SURFACE ELEVATION:
SHEET 1 OF 1	

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID	Notes
0	CL		4 Inches of concrete. GRAVEL: 2-3 inches Possible fill	2		50			* Soil sample from 2-3 ft-bgs submitted for laboratory analysis.
			, SILTY CLAY, traces of gravel and sand	8.7					
				7.1					
5			Dry, SAND, fine grained, traces of gravel, no odor	4		75			* Soil sample from 11-12 ft-bgs submitted for laboratory analysis.
				6.4					
				7.1					
10						75			* Soil sample from 15-16 ft-bgs submitted for laboratory analysis.
				7.6					
				8.9					
15	SW		Orange color at 14-15' 5YR 6/8 (reddish yellow) color			75			* Water sample at 23 ft-bgs submitted for laboratory analysis.
				9.7					
				10.9					
20				10.2					* Water sample at 23 ft-bgs submitted for laboratory analysis.
				10.3					
				12.9					
25				12.6					* Water sample at 23 ft-bgs submitted for laboratory analysis.
				10.5					
				8.5					
30			End of Boring						

TPV = Total Photo-Ionization Vapors
TFV = Total Flame-Ionization Vapors
PPM = Parts Per Million
BGS = Below Ground Surface
USCS = United Soil Classification System

Water Level Observations:
Noted on Rods:
At Completion:



BORING NUMBER: SB-4

CLIENT: AIMCO	FIELD GEOLOGIST: LL/AD
PROJECT LOCATION: Indianapolis, IN	DATE BEGAN: 2/3/09
PROJECT NAME: Michigan Meadows Apartments	DATE FINISHED: 2/3/09
PROJECT NUMBER: M01046	DRILLING METHOD:
DRILLING CONTRACTOR: Midway	DRILLING EQUIPMENT: LT-50
DRILLER: Mark / Corrie	GW DEPTH (OBSERVED):
BORING LOCATION: Merridian Street	SURFACE ELEVATION:
SHEET 1 OF 1	

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID	Notes
0	CL		4 Inches of concrete. GRAVEL: 3 inches base course Fill: 3 inches of SAND Dark yellowish brown (10YR 4/4), slightly moist (frozen), no odor	.4	0.0	60			
			Dry, SILTY CLAY, traces of sand and gravel, no odor		0.0				
				4	2.5				
5	SW		GRAVEL at 4 feet Dry, SAND, fine to coarse grained, traces of gravel, no odor Gravel layers from heaving.		0.0	95			* Soil sample from 6-7 ft-bgs submitted for laboratory analysis.
					7.6				
					13.2				
					12.4				
					6.4				
10					7.9	70			* Soil sample from 10-11 ft-bgs submitted for laboratory analysis.
				11	14.9				
	SP		Dry, SAND, fine grained, no odor		14.2				
				14					
15			Dark brown (10YR 3/3), dry, SAND, fine to medium grained, traces of gravel, slight odor		18.3	70			* Soil sample from 16-17 ft-bgs submitted for laboratory analysis.
					21.7				
					30.4				
					27.4				
					12.5	90			
					25.3				
20	SW					75	27.7		* Water sample at 23 ft-bgs submitted for laboratory analysis.
					28.8				
					14.9				
					18.1	90			
					17.2				
					17.0				
					16.8				
End of Boring									
30									

TPV = Total Photo-Ionization Vapors
TFV = Total Flame-Ionization Vapors
PPM = Parts Per Million
BGS = Below Ground Surface
USCS = United Soil Classification System

Water Level Observations:
Noted on Rods:
At Completion:



BORING NUMBER: SB-5

CLIENT: AIMCO	FIELD GEOLOGIST: LL/AD
PROJECT LOCATION: Indianapolis, IN	DATE BEGAN: 2/3/09
PROJECT NAME: Michigan Meadows Apartments	DATE FINISHED: 2/3/09
PROJECT NUMBER: M01046	DRILLING METHOD:
DRILLING CONTRACTOR: Midway	DRILLING EQUIPMENT: LT-50
DRILLER: Mark / Corrie	GW DEPTH (OBSERVED):
BORING LOCATION: Laundromat	SURFACE ELEVATION:
SHEET 1 OF 1	

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID	Notes					
0	CL		3-4 Inches of concrete.	.4					* Soil sample from 3-4 ft-bgs submitted for laboratory analysis.					
			PEA GRAVEL: 2-3 inches		4					4.0				
			(10YR 4/3) SILTY CLAY, traces of sand							2.0				
5										3.0				
	SW		(10YR 4/3), dry, SAND, fine to coarse grained, traces of gravel, no odor	7	3.2				* Soil sample from 9-10 ft-bgs submitted for laboratory analysis.					
					6.0									
10					13.6									
					10.2									
					10.3									
					8.4									
					9.6									
15					13.2									
					13.4									
					7.6									
20					6.4									
					6.5									
					6.5									
					6.5									
					12.4									
25					12.4									
					12.4									
					12.4									
30														* Water sample at 23 ft-bgs submitted for laboratory analysis.
End of Boring														

TPV = Total Photo-Ionization Vapors
TFV = Total Flame-Ionization Vapors
PPM = Parts Per Million
BGS = Below Ground Surface
USCS = United Soil Classification System

Water Level Observations:
Noted on Rods:
At Completion:



BORING NUMBER: SB-6

CLIENT: AIMCO	FIELD GEOLOGIST: LL/AD
PROJECT LOCATION: Indianapolis, IN	DATE BEGAN: 2/3/09
PROJECT NAME: Michigan Meadows Apartments	DATE FINISHED: 2/3/09
PROJECT NUMBER: M01046	DRILLING METHOD:
DRILLING CONTRACTOR: Midway	DRILLING EQUIPMENT: LT-50
DRILLER: Mark / Corrie	GW DEPTH (OBSERVED):
BORING LOCATION: Laundromat	SURFACE ELEVATION:
SHEET 1 OF 1	

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID	Notes
0	CL		4 Inches of concrete. PEA GRAVEL: 3 inches. Possible fill 3-4 inches (10YR 4/4), dry, no odor Dry, SILTY CLAY, traces of sand, no odor	.4					
					2.2				
5	SW		Dry, SAND, fine to coarse grained, no odor	5	3.5				* Soil sample from 5-6 ft-bgs submitted for laboratory analysis.
					2.0				
					2.6				* Soil sample from 7-8 ft-bgs submitted for laboratory analysis.
10	SP		(10YR 4/6), dry, SAND, fine grained, no odor	9	1.7				
					1.8				
				11	2.0				
					3.8				
15	SW		(10YR 4/6), dry, SAND, fine to coarse grained, no odor. Slight ORANGE color from 15'-16'		6.5				* Soil sample from 14-15 ft-bgs submitted for laboratory analysis.
					2.1				
				17					
	SP		(10YR 4/6), dry, SAND, fine grained, no odor	18	5.2				
20	SW				6.4				
					7.0				
	SP		Wet	22	7.3				
				23	8.9				* Water sample at 23 ft-bgs submitted for laboratory analysis.
25	SW								
End of Boring									
30									

TPV = Total Photo-Ionization Vapors
TFV = Total Flame-Ionization Vapors
PPM = Parts Per Million
BGS = Below Ground Surface
USCS = United Soil Classification System

Water Level Observations:
Noted on Rods:
At Completion:



BORING NUMBER: SB-7

CLIENT: AIMCO	FIELD GEOLOGIST: LL/AD
PROJECT LOCATION: Indianapolis, IN	DATE BEGAN: 2/4/09
PROJECT NAME: Michigan Meadows Apartments	DATE FINISHED: 2/4/09
PROJECT NUMBER: M01046	DRILLING METHOD: Indoor
DRILLING CONTRACTOR: Midway	DRILLING EQUIPMENT: LT-
DRILLER: Mark / Corrie	GW DEPTH (OBSERVED):
BORING LOCATION:	SURFACE ELEVATION:
SHEET 1 OF 1	

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID	Notes
0			4 Inches of concrete. GRAVEL: 3 inches. Gravel base is coarse. Fill material about 3 inches of sand Dark yellowish brown (10YR 4/4)	.4		NR			
			SILTY CLAY, Small amounts of SAND and GRAVEL.	3	0.0 3.2	50			* Soil sample from 3-4 ft-bgs submitted for laboratory analysis.
5	CL					0			
						NR			
10			SAND, fine grained with chunks of rock.	10	1.6 1.6	50			* Soil sample from 10-11 ft-bgs submitted for laboratory analysis.
	SW					NR			
15			Yellowish brown (10YR 5/6), SAND, fine grained	15	0.4 0.3	50			* Soil sample from 15-16 ft-bgs submitted for laboratory analysis.
	SW					NR			
					0.3 0.4	50			
20									
	SP		Dark yellowish brown (10YR 3/4), moist, SAND, poorly graded	22	0.6 1.8	75			
			Dark yellowish brown (10YR 3/4), moist, SAND, fine grained	23	1.2				* Water sample at 23 ft-bgs submitted for laboratory analysis.
25	SW				4.4 4.6 6.4	75			
End of Boring									
30									

TPV = Total Photo-Ionization Vapors
TFV = Total Flame-Ionization Vapors
PPM = Parts Per Million
BGS = Below Ground Surface
USCS = United Soil Classification System

Water Level Observations:
Noted on Rods:
At Completion:



BORING NUMBER: SB-8

CLIENT: AIMCO	FIELD GEOLOGIST: LL
PROJECT LOCATION: Indianapolis, IN	DATE BEGAN: 2/16/09
PROJECT NAME: Michigan Meadows Apartments	DATE FINISHED: 2/16/09
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Midway	DRILLING EQUIPMENT: GP 6620 DT
DRILLER: Mark / Zach	GW DEPTH (OBSERVED):
BORING LOCATION:	SURFACE ELEVATION:
SHEET 1 OF 1	

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID	Notes
0			Asphalt ~ 2 inches Gravel: 6-7 inches base course.	2					
			Possible fill: Dark yellowish brown (10YR 4/4), dry, SAND, fine to medium grained, no odor	1	NR	25			
			Dark gray (10YR 3/1), dry, SILTY CLAY, traces of gravel, traces of sand, no odor. Noticed root fragments.	3	1.2				
5	CL				4.2				
					4.1	80			* Soil sample from 5-6 ft-bgs submitted for laboratory analysis.
					5.3				
					5.2				
10	SW		(2.5Y 6/4), slightly wet, SAND, fine to coarse grained, traces of gravel, no odor. Intermittant black staining 9-10 ft.	8.5	NR	55			
					5.6				
					5.4				
				12	8.6				* Soil sample from 12-13 ft-bgs submitted for laboratory analysis.
					9.2	90			
15					9.3				* Soil sample from 15-16 ft-bgs submitted for laboratory analysis.
					9.3				
	SP				NR				
					7.0	75			
					7.1				
					7.1				
20					9.6				
					9.2	60			
					8.2				
					8.2				
25			End of Boring						* Water sample at 24 ft-bgs submitted for laboratory analysis.

TPV = Total Photo-Ionization Vapors
TFV = Total Flame-Ionization Vapors
PPM = Parts Per Million
BGS = Below Ground Surface
USCS = United Soil Classification System

Water Level Observations:
Noted on Rods:
At Completion:

BORING NUMBER: SB-8

CLIENT: AIMCO

FIELD GEOLOGIST: LL

PROJECT LOCATION: Indianapolis, IN

DATE BEGAN: 2/16/09

PROJECT NAME: Michigan Meadows Apartments

DATE FINISHED: 2/16/09

PROJECT NUMBER: M01046

DRILLING METHOD: Direct Push

DRILLING CONTRACTOR: Midway

DRILLING EQUIPMENT: GP 6620 DT

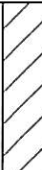
DRILLER: Mark / Zach

GW DEPTH (OBSERVED):

BORING LOCATION:

SURFACE ELEVATION:

SHEET 1 OF 1

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID	Notes
0	CL		Asphalt ~ 2 inches Gravel: ~ 4-6 inches Dark gray (10YR 3/1), dry, SILTY CLAY, traces of gravel, medium to coarse grained, no odor	4	NA	50			
5	SW		Dark brown (7.5Yr 3/4), dry, SAND, medium to coarse grained, traces of gravel, fine to medium grained, no odor Light yellowish brown (2.5y 6/4) at 6.5 ft Gravel/cobble layer at 9 ft SW from 10 ft	11.5	1.5 1.7 5.0 5.5 6.0 5.2 7.1 5.2	90			* Soil sample from 6-7 ft-bgs submitted for laboratory analysis.
10	SP		Light yellowish brown (2.5Y 6/4), SAND, fine to medium grained, traces of silt		5.2 10.2 8.9 7.2 10.1	65			* Soil sample from 12-13 ft-bgs submitted for laboratory analysis.
15					7.1 7.2 7.1	90			* Soil sample from 15-16 ft-bgs submitted for laboratory analysis.
20						NR			* Water sample and DUP at 24 ft-bgs submitted for laboratory analysis.
25			End of Boring						

TPV = Total Photo-Ionization Vapors
TFV = Total Flame-Ionization Vapors
PPM = Parts Per Million
BGS = Below Ground Surface
USCS = United Soil Classification System

Water Level Observations:
Noted on Rods:
At Completion:



BORING NUMBER: SB-9

CLIENT: AIMCO	FIELD GEOLOGIST: LL
PROJECT LOCATION: Indianapolis, IN	DATE BEGAN: 2/16/09
PROJECT NAME: Michigan Meadows Apartments	DATE FINISHED: 2/16/09
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Midway	DRILLING EQUIPMENT: GP 6620 DT
DRILLER: Mark / Zach	GW DEPTH (OBSERVED):
BORING LOCATION:	SURFACE ELEVATION:

SHEET 1 OF 1

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID	Notes
0	CL		Asphalt ~ 2 inches Gravel: ~ 4-6 inches Dark gray (10YR 3/1), dry, SILTY CLAY, traces of gravel, medium to coarse grained, no odor	4	NA	50			
					1.5				
					1.7				
5	SW		Dark brown (7.5yr 3/4), dry, SAND, medium to coarse grained, traces of gravel, fine to medium grained, no odor Light yellowish brown (2.5y 6/4) at 6.5 ft		5.0	90			* Soil sample from 6-7 ft-bgs submitted for laboratory analysis.
					5.5				
					6.0				
					5.2				
10			Gravel/cobble layer at 9 ft SW from 10 ft	11.5	7.1	65			* Soil sample from 12-13 ft-bgs submitted for laboratory analysis.
					5.2				
					10.2	90			
					8.9				
15	SP		Light yellowish brown (2.5Y 6/4), SAND, fine to medium grained, traces of silt		7.2				* Soil sample from 15-16 ft-bgs submitted for laboratory analysis.
					10.1				
					7.1	60			
					7.2				
20					7.1				* Water sample and DUP at 24 ft-bgs submitted for laboratory analysis.
						NR			
25			End of Boring						

TPV = Total Photo-Ionization Vapors
TFV = Total Flame-Ionization Vapors
PPM = Parts Per Million
BGS = Below Ground Surface
USCS = United Soil Classification System

Water Level Observations:
Noted on Rods:
At Completion:



FIELD GEOLOGIST: LL

DATE BEGAN: 2/17/09

DATE FINISHED: 2/17/09

DRILLING METHOD: Direct Push

DRILLING EQUIPMENT: GP 6620 DT

GW DEPTH (OBSERVED):

SURFACE ELEVATION:

SHEET 1 OF 1

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Water Level Observations:
Noted on Rods:
At Completion:



BORING NUMBER: SB-15

CLIENT: AIMCO	FIELD GEOLOGIST: LL
PROJECT LOCATION: Indianapolis, IN	DATE BEGAN: 2/17/09
PROJECT NAME: Michigan Meadows Apartments	DATE FINISHED: 2/17/09
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Midway	DRILLING EQUIPMENT: GP 6620 DT
DRILLER: Mark / Zach	GW DEPTH (OBSERVED):
BORING LOCATION: 20' S-SE of SB-11	SURFACE ELEVATION:
SHEET 1 OF 1	

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID	Notes
0	CL		~ 3 inches of asphalt	3	13.8	80			
	SW		Asphalt ~ 3 inches Base course/possible fill 5-6 inches (10YR 4/4), dry, SAND, fine to medium grained, traces of gravel, no odor		14.8				
5	CL		Dark gray (10YR 3/1), SILTY CLAY, traces of sand, no odor	4	30.0	80			
					30.0				
				7	14.1				
			SAND, medium to coarse grained, traces of gravel, no odor		14.1				
10					32.8	75			
					29.8				
15	SW				46.1	80			
					45.4				
					46.0	75			
					46.0				
20									
25			End of Boring						

TPV = Total Photo-Ionization Vapors
TFV = Total Flame-Ionization Vapors
PPM = Parts Per Million
BGS = Below Ground Surface
USCS = United Soil Classification System

Water Level Observations:
Noted on Rods:
At Completion:



BORING NUMBER: SB-16

CLIENT: AIMCO	FIELD GEOLOGIST: LL
PROJECT LOCATION: Indianapolis, IN	DATE BEGAN: 2/19/09
PROJECT NAME: Michigan Meadows Apartments	DATE FINISHED: 2/19/09
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Midway	DRILLING EQUIPMENT: GP 6620 DT
DRILLER: Mark / Zach	GW DEPTH (OBSERVED):
BORING LOCATION: E of Bus stop	SURFACE ELEVATION:
SHEET 1 OF 1	

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID	Notes
0	CL		~ 3 inches of asphalt. Base course 5-6 inches	3	2.0	50			
	SW		(10YR 4/3), dry, SAND, fine to medium grained, traces of gravel, no odor		2.5				
5	CL		Dark gray (10YR 3/1), SILTY CLAY, traces of sand	4	3.6	75			* Soil sample from 4-6 ft-bgs submitted for laboratory analysis.
					3.8				
10			SAND, medium to coarse grained, traces of gravel, slight odor	8	6.5	80			* Soil sample from 8-10 ft-bgs submitted for laboratory analysis.
					11.0				
15	SW				11.1	90			* Soil sample from 12-14 ft-bgs submitted for laboratory analysis.
					10.8				
25			End of Boring						

TPV = Total Photo-Ionization Vapors
TFV = Total Flame-Ionization Vapors
PPM = Parts Per Million
BGS = Below Ground Surface
USCS = United Soil Classification System

Water Level Observations:
Noted on Rods:
At Completion:



BORING NUMBER: SB-3

CLIENT: AIMCO	FIELD GEOLOGIST: LL/AD
PROJECT LOCATION: Indianapolis, IN	DATE BEGAN: 2/3/09
PROJECT NAME: Michigan Meadows Apartments	DATE FINISHED: 2/3/09
PROJECT NUMBER: M01046	DRILLING METHOD:
DRILLING CONTRACTOR: Midway	DRILLING EQUIPMENT: LT-50
DRILLER: Mark / Corrie	GW DEPTH (OBSERVED):
BORING LOCATION:	SURFACE ELEVATION:
SHEET 1 OF 1	

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID	Notes
0	CL		4 Inches of concrete. GRAVEL: 2-3 inches Possible fill	2		50			* Soil sample from 2-3 ft-bgs submitted for laboratory analysis.
			, SILTY CLAY, traces of gravel and sand	8.7					
				7.1					
5			Dry, SAND, fine grained, traces of gravel, no odor	4	6.4	75			* Soil sample from 11-12 ft-bgs submitted for laboratory analysis.
				7.1					
				7.6					
10					8.9	75			* Soil sample from 15-16 ft-bgs submitted for laboratory analysis.
					9.6				
					9.7				
15	SW		Orange color at 14-15' 5YR 6/8 (reddish yellow) color		10.9	75			* Water sample at 23 ft-bgs submitted for laboratory analysis.
					10.2				
					10.3				
20					12.9	75			
					12.6				
					10.5				
25					8.5	75			
					8.0				
30			End of Boring						

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TFV = Total Flame-Ionization Vapors
PPM = Parts Per Million
BGS = Below Ground Surface
USCS = United Soil Classification System

Water Level Observations:
Noted on Rods:
At Completion:



BORING NUMBER: SB-4

CLIENT: AIMCO	FIELD GEOLOGIST: LL/AD
PROJECT LOCATION: Indianapolis, IN	DATE BEGAN: 2/3/09
PROJECT NAME: Michigan Meadows Apartments	DATE FINISHED: 2/3/09
PROJECT NUMBER: M01046	DRILLING METHOD:
DRILLING CONTRACTOR: Midway	DRILLING EQUIPMENT: LT-50
DRILLER: Mark / Corrie	GW DEPTH (OBSERVED):
BORING LOCATION: Merridian Street	SURFACE ELEVATION:

SHEET 1 OF 1

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID	Notes
0	CL		4 Inches of concrete. GRAVEL: 3 inches base course Fill: 3 inches of SAND Dark yellowish brown (10YR 4/4), slightly moist (frozen), no odor	.4	0.0	60			
			Dry, SILTY CLAY, traces of sand and gravel, no odor		0.0				
				4	2.5				
5	SW		GRAVEL at 4 feet Dry, SAND, fine to coarse grained, traces of gravel, no odor Gravel layers from heaving.		0.0	95			* Soil sample from 6-7 ft-bgs submitted for laboratory analysis.
					7.6				
					13.2				
					12.4				
					6.4				
10					7.9	70			* Soil sample from 10-11 ft-bgs submitted for laboratory analysis.
				11	14.9				
	SP		Dry, SAND, fine grained, no odor		14.2				
				14					
15			Dark brown (10YR 3/3), dry, SAND, fine to medium grained, traces of gravel, slight odor		18.3	70			* Soil sample from 16-17 ft-bgs submitted for laboratory analysis.
					21.7				
					30.4				
					27.4				
					12.5	90			
					25.3				
20	SW					75	27.7		* Water sample at 23 ft-bgs submitted for laboratory analysis.
					28.8				
					14.9				
					18.1	90			
25					17.2				
					17.0				
					16.8				
End of Boring									
30									

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TFV = Total Flame-Ionization Vapors
PPM = Parts Per Million
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USCS = United Soil Classification System

Water Level Observations:
Noted on Rods:
At Completion:



BORING NUMBER: SB-5

CLIENT: AIMCO	FIELD GEOLOGIST: LL/AD
PROJECT LOCATION: Indianapolis, IN	DATE BEGAN: 2/3/09
PROJECT NAME: Michigan Meadows Apartments	DATE FINISHED: 2/3/09
PROJECT NUMBER: M01046	DRILLING METHOD:
DRILLING CONTRACTOR: Midway	DRILLING EQUIPMENT: LT-50
DRILLER: Mark / Corrie	GW DEPTH (OBSERVED):
BORING LOCATION: Laundromat	SURFACE ELEVATION:
SHEET 1 OF 1	

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID	Notes
0			3-4 Inches of concrete. PEA GRAVEL: 2-3 inches (10YR 4/3) SILTY CLAY, traces of sand	.4					
5	CL			4	4.0				* Soil sample from 3-4 ft-bgs submitted for laboratory analysis.
					2.0				
					3.0				
					3.2				
				7	6.0				
10			(10YR 4/3), dry, SAND, fine to coarse grained, traces of gravel, no odor		13.6				* Soil sample from 9-10 ft-bgs submitted for laboratory analysis.
					10.2				
					10.3				
					8.4				
					9.6				
15			Orange color at 18 ft		13.2				* Soil sample from 15-16 ft-bgs submitted for laboratory analysis.
					13.4				
					7.6				
20	SW				6.4				
					6.5				
					6.5				
					6.5				
					6.5				
					12.4				* Water sample at 23 ft-bgs submitted for laboratory analysis.
25					12.4				
					12.4				
					12.4				
30									
End of Boring									

TPV = Total Photo-Ionization Vapors
TFV = Total Flame-Ionization Vapors
PPM = Parts Per Million
BGS = Below Ground Surface
USCS = United Soil Classification System

Water Level Observations:
Noted on Rods:
At Completion:



BORING NUMBER: SB-6

CLIENT: AIMCO	FIELD GEOLOGIST: LL/AD
PROJECT LOCATION: Indianapolis, IN	DATE BEGAN: 2/3/09
PROJECT NAME: Michigan Meadows Apartments	DATE FINISHED: 2/3/09
PROJECT NUMBER: M01046	DRILLING METHOD:
DRILLING CONTRACTOR: Midway	DRILLING EQUIPMENT: LT-50
DRILLER: Mark / Corrie	GW DEPTH (OBSERVED):
BORING LOCATION: Laundromat	SURFACE ELEVATION:
SHEET 1 OF 1	

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID	Notes
0	CL		4 Inches of concrete. PEA GRAVEL: 3 inches. Possible fill 3-4 inches (10YR 4/4), dry, no odor Dry, SILTY CLAY, traces of sand, no odor	.4					
					2.2				
5	SW		Dry, SAND, fine to coarse grained, no odor	5	3.5				* Soil sample from 5-6 ft-bgs submitted for laboratory analysis.
					2.0				
					2.6				* Soil sample from 7-8 ft-bgs submitted for laboratory analysis.
10	SP		(10YR 4/6), dry, SAND, fine grained, no odor	9	1.7				
					1.8				
				11	2.0				
					3.8				
15	SW		(10YR 4/6), dry, SAND, fine to coarse grained, no odor. Slight ORANGE color from 15'-16'		6.5				* Soil sample from 14-15 ft-bgs submitted for laboratory analysis.
					2.1				
	SP		(10YR 4/6), dry, SAND, fine grained, no odor	17					
				18	5.2				
20	SW				6.4				
					7.0				
	SP		Wet	22	7.3				
				23	8.9				* Water sample at 23 ft-bgs submitted for laboratory analysis.
25	SW								
End of Boring									
30									

TPV = Total Photo-Ionization Vapors
TFV = Total Flame-Ionization Vapors
PPM = Parts Per Million
BGS = Below Ground Surface
USCS = United Soil Classification System

Water Level Observations:
Noted on Rods:
At Completion:



BORING NUMBER: SB-7

CLIENT: AIMCO	FIELD GEOLOGIST: LL/AD
PROJECT LOCATION: Indianapolis, IN	DATE BEGAN: 2/4/09
PROJECT NAME: Michigan Meadows Apartments	DATE FINISHED: 2/4/09
PROJECT NUMBER: M01046	DRILLING METHOD: Indoor
DRILLING CONTRACTOR: Midway	DRILLING EQUIPMENT: LT-
DRILLER: Mark / Corrie	GW DEPTH (OBSERVED):
BORING LOCATION:	SURFACE ELEVATION:
SHEET 1 OF 1	

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID	Notes
0			4 Inches of concrete. GRAVEL: 3 inches. Gravel base is coarse. Fill material about 3 inches of sand Dark yellowish brown (10YR 4/4)	.4		NR			
			SILTY CLAY, Small amounts of SAND and GRAVEL.	3	0.0 3.2	50			* Soil sample from 3-4 ft-bgs submitted for laboratory analysis.
5	CL					0			
						NR			
10			SAND, fine grained with chunks of rock.	10	1.6 1.6	50			* Soil sample from 10-11 ft-bgs submitted for laboratory analysis.
	SW					NR			
15			Yellowish brown (10YR 5/6), SAND, fine grained	15	0.4 0.3	50			* Soil sample from 15-16 ft-bgs submitted for laboratory analysis.
	SW					NR			
					0.3 0.4	50			
20									
	SP		Dark yellowish brown (10YR 3/4), moist, SAND, poorly graded	22	0.6 1.8	75			
			Dark yellowish brown (10YR 3/4), moist, SAND, fine grained	23	1.2				* Water sample at 23 ft-bgs submitted for laboratory analysis.
25	SW				4.4 4.6 6.4	75			
			End of Boring						
30									

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TFV = Total Flame-Ionization Vapors
PPM = Parts Per Million
BGS = Below Ground Surface
USCS = United Soil Classification System

Water Level Observations:
Noted on Rods:
At Completion:



BORING NUMBER: SB-8

CLIENT: AIMCO	FIELD GEOLOGIST: LL
PROJECT LOCATION: Indianapolis, IN	DATE BEGAN: 2/16/09
PROJECT NAME: Michigan Meadows Apartments	DATE FINISHED: 2/16/09
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Midway	DRILLING EQUIPMENT: GP 6620 DT
DRILLER: Mark / Zach	GW DEPTH (OBSERVED):
BORING LOCATION:	SURFACE ELEVATION:
SHEET 1 OF 1	

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID	Notes
0			Asphalt ~ 2 inches Gravel: 6-7 inches base course.	2					
			Possible fill: Dark yellowish brown (10YR 4/4), dry, SAND, fine to medium grained, no odor	1	NR	25			
			Dark gray (10YR 3/1), dry, SILTY CLAY, traces of gravel, traces of sand, no odor. Noticed root fragments.	3	1.2				
5	CL				4.2				
					4.1	80			* Soil sample from 5-6 ft-bgs submitted for laboratory analysis.
					5.3				
					5.2				
10	SW		(2.5Y 6/4), slightly wet, SAND, fine to coarse grained, traces of gravel, no odor. Intermittant black staining 9-10 ft.	8.5	NR	55			
					5.6				
					5.4				
				12	8.6				* Soil sample from 12-13 ft-bgs submitted for laboratory analysis.
					9.2	90			
15					9.3				
					9.3				* Soil sample from 15-16 ft-bgs submitted for laboratory analysis.
					NR				
					7.0	75			
					7.1				
					7.1				
20					9.6				
					9.2	60			
					8.2				
					8.2				
25			End of Boring						* Water sample at 24 ft-bgs submitted for laboratory analysis.

TPV = Total Photo-Ionization Vapors
TFV = Total Flame-Ionization Vapors
PPM = Parts Per Million
BGS = Below Ground Surface
USCS = United Soil Classification System

Water Level Observations:
Noted on Rods:
At Completion:



BORING NUMBER: SB-8

CLIENT: AIMCO	FIELD GEOLOGIST: LL
PROJECT LOCATION: Indianapolis, IN	DATE BEGAN: 2/16/09
PROJECT NAME: Michigan Meadows Apartments	DATE FINISHED: 2/16/09
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Midway	DRILLING EQUIPMENT: GP 6620 DT
DRILLER: Mark / Zach	GW DEPTH (OBSERVED):
BORING LOCATION:	SURFACE ELEVATION:
SHEET 1 OF 1	

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID	Notes
0	CL		Asphalt ~ 2 inches Gravel: ~ 4-6 inches Dark gray (10YR 3/1), dry, SILTY CLAY, traces of gravel, medium to coarse grained, no odor	4	NA	50			
					1.5				
					1.7				
5	SW		Dark brown (7.5yr 3/4), dry, SAND, medium to coarse grained, traces of gravel, fine to medium grained, no odor Light yellowish brown (2.5y 6/4) at 6.5 ft		5.0	90			* Soil sample from 6-7 ft-bgs submitted for laboratory analysis.
					5.5				
					6.0				
					5.2				
10			Gravel/cobble layer at 9 ft SW from 10 ft	11.5	7.1	65			* Soil sample from 12-13 ft-bgs submitted for laboratory analysis.
					5.2				
					10.2	90			
					8.9				
					7.2				
					10.1				
					7.1	60			
					7.2				
15	SP		Light yellowish brown (2.5Y 6/4), SAND, fine to medium grained, traces of silt		7.1				* Soil sample from 15-16 ft-bgs submitted for laboratory analysis.
					7.2				
					7.1				
20						NR			* Water sample and DUP at 24 ft-bgs submitted for laboratory analysis.
25			End of Boring						

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TFV = Total Flame-Ionization Vapors
PPM = Parts Per Million
BGS = Below Ground Surface
USCS = United Soil Classification System

Water Level Observations:
Noted on Rods:
At Completion:



BORING NUMBER: SB-10

CLIENT: AIMCO	FIELD GEOLOGIST: LL
PROJECT LOCATION: Indianapolis, IN	DATE BEGAN: 2/17/09
PROJECT NAME: Michigan Meadows Apartments	DATE FINISHED: 2/17/09
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Midway	DRILLING EQUIPMENT: GP 6620 DT
DRILLER: Mark / Zach	GW DEPTH (OBSERVED):
BORING LOCATION:	SURFACE ELEVATION:
SHEET 1 OF 1	

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID	Notes
0	CL		~ 3 inches of asphalt	0.3					
	CL		GRAVEL: possible base course ~ 6 inches. (10YR 3/4), dry, SILTY CLAY, traces of sand, medium grained, no odor	1	0.5	75			
					1.8				
				4	1.8				
5	SW		(10YR 4/3), dry, SAND, fine to coarse grained, traces of gravel, very fine grained, no odor		3.2	80			
					2.3				
					2.3				
					10.1				* Soil sample from 4-6 ft-bgs submitted for laboratory analysis.
					10.2				
10	SP		(10YR 4/4), dry, SAND, fine to medium grained, traces of silt, no odor	10	9.1	90			
					9.1				
				12					
			(10YR 4/3), SAND, fine to coarse grained, traces of gravel, with some 2.5TR 5/8 color.		7.9	75			
15	SW				9.8				
					9.8				
					9.8				
					9.4	80			
				18.5	10.1				
20	SP		(10YR 4/3), wet, SAND, fine grained, no odor		10.1				
25			End of Boring						* Soil sample from 8-10 ft-bgs submitted for laboratory analysis.
									* Soil sample from 14-16 ft-bgs submitted for laboratory analysis.
									* Water sample at 24 ft-bgs submitted for laboratory analysis.

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TFV = Total Flame-Ionization Vapors
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BGS = Below Ground Surface
USCS = United Soil Classification System

Water Level Observations:
Noted on Rods:
At Completion:



BORING NUMBER: SB-15

CLIENT: AIMCO	FIELD GEOLOGIST: LL
PROJECT LOCATION: Indianapolis, IN	DATE BEGAN: 2/17/09
PROJECT NAME: Michigan Meadows Apartments	DATE FINISHED: 2/17/09
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Midway	DRILLING EQUIPMENT: GP 6620 DT
DRILLER: Mark / Zach	GW DEPTH (OBSERVED):
BORING LOCATION: 20' S-SE of SB-11	SURFACE ELEVATION:

SHEET 1 OF 1

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID	Notes
0	CL		~ 3 inches of asphalt	3	13.8	80			
	SW		Asphalt ~ 3 inches Base course/possible fill 5-6 inches (10YR 4/4), dry, SAND, fine to medium grained, traces of gravel, no odor		14.8				
5	CL		Dark gray (10YR 3/1), SILTY CLAY, traces of sand, no odor	4	30.0	80			
					30.0				
				7	14.1				
			SAND, medium to coarse grained, traces of gravel, no odor		14.1				
10					32.8	75			
					29.8				
15	SW				46.1	80			
					45.4				
					46.0	75			
					46.0				
20									
25			End of Boring						

TPV = Total Photo-Ionization Vapors
TFV = Total Flame-Ionization Vapors
PPM = Parts Per Million
BGS = Below Ground Surface
USCS = United Soil Classification System

Water Level Observations:
Noted on Rods:
At Completion:



BORING NUMBER: SB-17

CLIENT: AIMCO	FIELD GEOLOGIST: LL
PROJECT LOCATION: Indianapolis, IN	DATE BEGAN:
PROJECT NAME: Michigan Meadows Apartments	DATE FINISHED:
PROJECT NUMBER: M01046	DRILLING METHOD:
DRILLING CONTRACTOR: Midway	DRILLING EQUIPMENT:
DRILLER:	GW DEPTH (OBSERVED):
BORING LOCATION: E of Bus stop	SURFACE ELEVATION:
SHEET 1 OF 1	

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID	Notes
0			Grass ~ 2 inches	.3					
			(7.5YR 6/3), SILTY CLAY, traces of gravel, traces of sand, slight odor	1	2.7				
					3.2				
5	CL				6.9				
					6.4				
					16.5				
10			(2.5Y 7/2), SAND, fine to medium grained, traces of gravel	10	73.2				* Soil sample from 4-6 ft-bgs submitted for laboratory analysis.
					102				
15	SW				125				* Soil sample from 10-12 ft-bgs submitted for laboratory analysis.
									* Soil sample from 12-14 ft-bgs submitted for laboratory analysis.
20			End of Boring						

TPV = Total Photo-Ionization Vapors
TFV = Total Flame-Ionization Vapors
PPM = Parts Per Million
BGS = Below Ground Surface
USCS = United Soil Classification System

Water Level Observations:
Noted on Rods:
At Completion:



BORING NUMBER: SB-3

CLIENT: AIMCO	FIELD GEOLOGIST: LL/AD
PROJECT LOCATION: Indianapolis, IN	DATE BEGAN: 2/3/09
PROJECT NAME: Michigan Meadows Apartments	DATE FINISHED: 2/3/09
PROJECT NUMBER: M01046	DRILLING METHOD:
DRILLING CONTRACTOR: Midway	DRILLING EQUIPMENT: LT-50
DRILLER: Mark / Corrie	GW DEPTH (OBSERVED):
BORING LOCATION:	SURFACE ELEVATION:
SHEET 1 OF 1	

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID	Notes
0	CL		4 Inches of concrete. GRAVEL: 2-3 inches Possible fill	2		50			* Soil sample from 2-3 ft-bgs submitted for laboratory analysis.
			, SILTY CLAY, traces of gravel and sand	8.7					
				7.1					
5			Dry, SAND, fine grained, traces of gravel, no odor	4		75			* Soil sample from 11-12 ft-bgs submitted for laboratory analysis.
				6.4					
				7.1					
10						75			* Soil sample from 15-16 ft-bgs submitted for laboratory analysis.
				7.6					
				8.9					
15	SW		Orange color at 14-15' 5YR 6/8 (reddish yellow) color			75			* Water sample at 23 ft-bgs submitted for laboratory analysis.
				9.7					
				10.9					
20				10.2					* Water sample at 23 ft-bgs submitted for laboratory analysis.
				10.3					
				12.9					
25				12.6					* Water sample at 23 ft-bgs submitted for laboratory analysis.
				10.5					
				8.5					
30			End of Boring						

TPV = Total Photo-Ionization Vapors
TFV = Total Flame-Ionization Vapors
PPM = Parts Per Million
BGS = Below Ground Surface
USCS = United Soil Classification System

Water Level Observations:
Noted on Rods:
At Completion:



BORING NUMBER: SB-4

CLIENT: AIMCO	FIELD GEOLOGIST: LL/AD
PROJECT LOCATION: Indianapolis, IN	DATE BEGAN: 2/3/09
PROJECT NAME: Michigan Meadows Apartments	DATE FINISHED: 2/3/09
PROJECT NUMBER: M01046	DRILLING METHOD:
DRILLING CONTRACTOR: Midway	DRILLING EQUIPMENT: LT-50
DRILLER: Mark / Corrie	GW DEPTH (OBSERVED):
BORING LOCATION: Merridian Street	SURFACE ELEVATION:

SHEET 1 OF 1

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID	Notes
0	CL		4 Inches of concrete. GRAVEL: 3 inches base course Fill: 3 inches of SAND Dark yellowish brown (10YR 4/4), slightly moist (frozen), no odor	.4	0.0	60			
			Dry, SILTY CLAY, traces of sand and gravel, no odor		0.0				
				4	2.5				
5	SW		GRAVEL at 4 feet Dry, SAND, fine to coarse grained, traces of gravel, no odor Gravel layers from heaving.		0.0	95			* Soil sample from 6-7 ft-bgs submitted for laboratory analysis.
					7.6				
					13.2				
					12.4				
					6.4				
10					7.9	70			* Soil sample from 10-11 ft-bgs submitted for laboratory analysis.
				11	14.9				
	SP		Dry, SAND, fine grained, no odor		14.2				
				14					
15			Dark brown (10YR 3/3), dry, SAND, fine to medium grained, traces of gravel, slight odor		18.3	70			* Soil sample from 16-17 ft-bgs submitted for laboratory analysis.
					21.7				
					30.4				
					27.4				
					12.5	90			
					25.3				
20	SW					75	27.7		* Water sample at 23 ft-bgs submitted for laboratory analysis.
					28.8				
					14.9				
					18.1	90			
25					17.2				
					17.0				
					16.8				
End of Boring									
30									

TPV = Total Photo-Ionization Vapors
TFV = Total Flame-Ionization Vapors
PPM = Parts Per Million
BGS = Below Ground Surface
USCS = United Soil Classification System

Water Level Observations:
Noted on Rods:
At Completion:



BORING NUMBER: SB-5

CLIENT: AIMCO	FIELD GEOLOGIST: LL/AD
PROJECT LOCATION: Indianapolis, IN	DATE BEGAN: 2/3/09
PROJECT NAME: Michigan Meadows Apartments	DATE FINISHED: 2/3/09
PROJECT NUMBER: M01046	DRILLING METHOD:
DRILLING CONTRACTOR: Midway	DRILLING EQUIPMENT: LT-50
DRILLER: Mark / Corrie	GW DEPTH (OBSERVED):
BORING LOCATION: Laundromat	SURFACE ELEVATION:
SHEET 1 OF 1	

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID	Notes
0			3-4 Inches of concrete. PEA GRAVEL: 2-3 inches (10YR 4/3) SILTY CLAY, traces of sand	.4					
5	CL			4	4.0				* Soil sample from 3-4 ft-bgs submitted for laboratory analysis.
					2.0				
					3.0				
					3.2				
				7	6.0				
10			(10YR 4/3), dry, SAND, fine to coarse grained, traces of gravel, no odor		13.6				* Soil sample from 9-10 ft-bgs submitted for laboratory analysis.
					10.2				
					10.3				
					8.4				
					9.6				
15			Orange color at 18 ft		13.2				* Soil sample from 15-16 ft-bgs submitted for laboratory analysis.
					13.4				
					7.6				
20	SW				6.4				
					6.5				
					6.5				
					6.5				
					6.5				* Water sample at 23 ft-bgs submitted for laboratory analysis.
25					12.4				
					12.4				
					12.4				
					12.4				
30									
End of Boring									

TPV = Total Photo-Ionization Vapors
TFV = Total Flame-Ionization Vapors
PPM = Parts Per Million
BGS = Below Ground Surface
USCS = United Soil Classification System

Water Level Observations:
Noted on Rods:
At Completion:



BORING NUMBER: SB-6

CLIENT: AIMCO	FIELD GEOLOGIST: LL/AD
PROJECT LOCATION: Indianapolis, IN	DATE BEGAN: 2/3/09
PROJECT NAME: Michigan Meadows Apartments	DATE FINISHED: 2/3/09
PROJECT NUMBER: M01046	DRILLING METHOD:
DRILLING CONTRACTOR: Midway	DRILLING EQUIPMENT: LT-50
DRILLER: Mark / Corrie	GW DEPTH (OBSERVED):
BORING LOCATION: Laundromat	SURFACE ELEVATION:
SHEET 1 OF 1	

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID	Notes
0	CL		4 Inches of concrete. PEA GRAVEL: 3 inches. Possible fill 3-4 inches (10YR 4/4), dry, no odor Dry, SILTY CLAY, traces of sand, no odor	.4					
					2.2				
5	SW		Dry, SAND, fine to coarse grained, no odor	5	3.5				* Soil sample from 5-6 ft-bgs submitted for laboratory analysis.
					2.0				
					2.6				* Soil sample from 7-8 ft-bgs submitted for laboratory analysis.
10	SP		(10YR 4/6), dry, SAND, fine grained, no odor	9	1.7				
					1.8				
				11	2.0				
					3.8				
15	SW		(10YR 4/6), dry, SAND, fine to coarse grained, no odor. Slight ORANGE color from 15'-16'		6.5				* Soil sample from 14-15 ft-bgs submitted for laboratory analysis.
					2.1				
	SP		(10YR 4/6), dry, SAND, fine grained, no odor	17					
				18	5.2				
20	SW				6.4				
					7.0				
	SP		Wet	22	7.3				
				23	8.9				* Water sample at 23 ft-bgs submitted for laboratory analysis.
25	SW								
End of Boring									
30									

TPV = Total Photo-Ionization Vapors
TFV = Total Flame-Ionization Vapors
PPM = Parts Per Million
BGS = Below Ground Surface
USCS = United Soil Classification System

Water Level Observations:
Noted on Rods:
At Completion:



BORING NUMBER: SB-7

CLIENT: AIMCO	FIELD GEOLOGIST: LL/AD
PROJECT LOCATION: Indianapolis, IN	DATE BEGAN: 2/4/09
PROJECT NAME: Michigan Meadows Apartments	DATE FINISHED: 2/4/09
PROJECT NUMBER: M01046	DRILLING METHOD: Indoor
DRILLING CONTRACTOR: Midway	DRILLING EQUIPMENT: LT-
DRILLER: Mark / Corrie	GW DEPTH (OBSERVED):
BORING LOCATION:	SURFACE ELEVATION:
SHEET 1 OF 1	

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID	Notes
0			4 Inches of concrete. GRAVEL: 3 inches. Gravel base is coarse. Fill material about 3 inches of sand Dark yellowish brown (10YR 4/4)	.4		NR			
			SILTY CLAY, Small amounts of SAND and GRAVEL.	3	0.0 3.2	50			* Soil sample from 3-4 ft-bgs submitted for laboratory analysis.
5	CL					0			
						NR			
10			SAND, fine grained with chunks of rock.	10	1.6 1.6	50			* Soil sample from 10-11 ft-bgs submitted for laboratory analysis.
	SW					NR			
15			Yellowish brown (10YR 5/6), SAND, fine grained	15	0.4 0.3	50			* Soil sample from 15-16 ft-bgs submitted for laboratory analysis.
	SW					NR			
					0.3 0.4	50			
20									
	SP		Dark yellowish brown (10YR 3/4), moist, SAND, poorly graded	22	0.6 1.8	75			
			Dark yellowish brown (10YR 3/4), moist, SAND, fine grained	23	1.2				* Water sample at 23 ft-bgs submitted for laboratory analysis.
25	SW				4.4 4.6 6.4	75			
			End of Boring						
30									

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PPM = Parts Per Million
BGS = Below Ground Surface
USCS = United Soil Classification System

Water Level Observations:
Noted on Rods:
At Completion:



BORING NUMBER: SB-8

CLIENT: AIMCO	FIELD GEOLOGIST: LL
PROJECT LOCATION: Indianapolis, IN	DATE BEGAN: 2/16/09
PROJECT NAME: Michigan Meadows Apartments	DATE FINISHED: 2/16/09
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Midway	DRILLING EQUIPMENT: GP 6620 DT
DRILLER: Mark / Zach	GW DEPTH (OBSERVED):
BORING LOCATION:	SURFACE ELEVATION:
SHEET 1 OF 1	

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID	Notes
0			Asphalt ~ 2 inches Gravel: 6-7 inches base course.	2					
			Possible fill: Dark yellowish brown (10YR 4/4), dry, SAND, fine to medium grained, no odor	1	NR	25			
			Dark gray (10YR 3/1), dry, SILTY CLAY, traces of gravel, traces of sand, no odor. Noticed root fragments.	3	1.2				
5	CL				4.2				
					4.1	80			* Soil sample from 5-6 ft-bgs submitted for laboratory analysis.
					5.3				
					5.2				
10	SW		(2.5Y 6/4), slightly wet, SAND, fine to coarse grained, traces of gravel, no odor. Intermittant black staining 9-10 ft.	8.5	NR	55			
					5.6				
					5.4				* Soil sample from 12-13 ft-bgs submitted for laboratory analysis.
15			(2.5Y 6/4), wet, SAND, fine to medium grained, traces of gravel, no odor	12	8.6				
					9.2	90			
					9.3				* Soil sample from 15-16 ft-bgs submitted for laboratory analysis.
					9.3				
	SP				NR				
					7.0	75			
					7.1				
					7.1				
20					9.6				
					9.2	60			
					8.2				
					8.2				
25			End of Boring						* Water sample at 24 ft-bgs submitted for laboratory analysis.

TPV = Total Photo-Ionization Vapors
TFV = Total Flame-Ionization Vapors
PPM = Parts Per Million
BGS = Below Ground Surface
USCS = United Soil Classification System

Water Level Observations:
Noted on Rods:
At Completion:



BORING NUMBER: SB-8

CLIENT: AIMCO	FIELD GEOLOGIST: LL
PROJECT LOCATION: Indianapolis, IN	DATE BEGAN: 2/16/09
PROJECT NAME: Michigan Meadows Apartments	DATE FINISHED: 2/16/09
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Midway	DRILLING EQUIPMENT: GP 6620 DT
DRILLER: Mark / Zach	GW DEPTH (OBSERVED):
BORING LOCATION:	SURFACE ELEVATION:
SHEET 1 OF 1	

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID	Notes
0	CL		Asphalt ~ 2 inches Gravel: ~ 4-6 inches Dark gray (10YR 3/1), dry, SILTY CLAY, traces of gravel, medium to coarse grained, no odor	4	NA	50			
					1.5				
					1.7				
5	SW		Dark brown (7.5yr 3/4), dry, SAND, medium to coarse grained, traces of gravel, fine to medium grained, no odor Light yellowish brown (2.5y 6/4) at 6.5 ft		5.0	90			* Soil sample from 6-7 ft-bgs submitted for laboratory analysis.
					5.5				
					6.0				
					5.2				
10			Gravel/cobble layer at 9 ft SW from 10 ft	11.5	7.1	65			* Soil sample from 12-13 ft-bgs submitted for laboratory analysis.
					5.2				
					10.2	90			
					8.9				
15			Light yellowish brown (2.5Y 6/4), SAND, fine to medium grained, traces of silt		7.2				* Soil sample from 15-16 ft-bgs submitted for laboratory analysis.
					10.1				
					7.1	60			
					7.2				
20	SP				7.1				* Water sample and DUP at 24 ft-bgs submitted for laboratory analysis.
						NR			
25			End of Boring						

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Water Level Observations:
Noted on Rods:
At Completion:



BORING NUMBER: SB-10

CLIENT: AIMCO	FIELD GEOLOGIST: LL
PROJECT LOCATION: Indianapolis, IN	DATE BEGAN: 2/17/09
PROJECT NAME: Michigan Meadows Apartments	DATE FINISHED: 2/17/09
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Midway	DRILLING EQUIPMENT: GP 6620 DT
DRILLER: Mark / Zach	GW DEPTH (OBSERVED):
BORING LOCATION:	SURFACE ELEVATION:
SHEET 1 OF 1	

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID	Notes
0	CL		~ 3 inches of asphalt	0.3					
	CL		GRAVEL: possible base course ~ 6 inches. (10YR 3/4), dry, SILTY CLAY, traces of sand, medium grained, no odor	1	0.5	75			
					1.8				
				4	1.8				
5	SW		(10YR 4/3), dry, SAND, fine to coarse grained, traces of gravel, very fine grained, no odor		3.2	80			
					2.3				
					2.3				
					10.1				* Soil sample from 4-6 ft-bgs submitted for laboratory analysis.
10	SP		(10YR 4/4), dry, SAND, fine to medium grained, traces of silt, no odor	10	10.2	90			
					9.1				
				12	9.1				
			(10YR 4/3), SAND, fine to coarse grained, traces of gravel, with some 2.5TR 5/8 color.		7.9	75			
15	SW				9.8				
					9.8				
					9.8				
					9.4	80			
				18.5	10.1				
20	SP		(10YR 4/3), wet, SAND, fine grained, no odor		10.1				
25			End of Boring						* Soil sample from 8-10 ft-bgs submitted for laboratory analysis.
									* Soil sample from 14-16 ft-bgs submitted for laboratory analysis.
									* Water sample at 24 ft-bgs submitted for laboratory analysis.

TPV = Total Photo-Ionization Vapors
TFV = Total Flame-Ionization Vapors
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BGS = Below Ground Surface
USCS = United Soil Classification System

Water Level Observations:
Noted on Rods:
At Completion:



BORING NUMBER: SB-15

CLIENT: AIMCO	FIELD GEOLOGIST: LL
PROJECT LOCATION: Indianapolis, IN	DATE BEGAN: 2/17/09
PROJECT NAME: Michigan Meadows Apartments	DATE FINISHED: 2/17/09
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Midway	DRILLING EQUIPMENT: GP 6620 DT
DRILLER: Mark / Zach	GW DEPTH (OBSERVED):
BORING LOCATION: 20' S-SE of SB-11	SURFACE ELEVATION:

SHEET 1 OF 1

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID	Notes
0	CL		~ 3 inches of asphalt	3	13.8	80			
	SW		Asphalt ~ 3 inches Base course/possible fill 5-6 inches (10YR 4/4), dry, SAND, fine to medium grained, traces of gravel, no odor		14.8				
5	CL		Dark gray (10YR 3/1), SILTY CLAY, traces of sand, no odor	4	30.0	80			
					30.0				
				7	14.1				
			SAND, medium to coarse grained, traces of gravel, no odor		14.1				
10					32.8	75			
					29.8				
15	SW				46.1	80			
					45.4				
					46.0	75			
					46.0				
20									
25			End of Boring						

TPV = Total Photo-Ionization Vapors
TFV = Total Flame-Ionization Vapors
PPM = Parts Per Million
BGS = Below Ground Surface
USCS = United Soil Classification System

Water Level Observations:
Noted on Rods:
At Completion:



BORING NUMBER: SB-16

CLIENT: AIMCO	FIELD GEOLOGIST: LL
PROJECT LOCATION: Indianapolis, IN	DATE BEGAN: 2/19/09
PROJECT NAME: Michigan Meadows Apartments	DATE FINISHED: 2/19/09
PROJECT NUMBER: M01046	DRILLING METHOD: Direct Push
DRILLING CONTRACTOR: Midway	DRILLING EQUIPMENT: GP 6620 DT
DRILLER: Mark / Zach	GW DEPTH (OBSERVED):
BORING LOCATION: E of Bus stop	SURFACE ELEVATION:
SHEET 1 OF 1	

Depth BGS (ft)	USCS Symbol	USCS Graphic	Lithologic Description	Stratum Depth (ft)	TPV (ppm)	Recovery %	Sample Location	Sample ID	Notes
0	CL		~ 3 inches of asphalt. Base course 5-6 inches (10YR 4/3), dry, SAND, fine to medium grained, traces of gravel, no odor	3	2.0	50			
	SW			4	2.5				
5	CL		Dark gray (10YR 3/1), SILTY CLAY, traces of sand		3.6	75			* Soil sample from 4-6 ft-bgs submitted for laboratory analysis.
				8	3.8				
10			SAND, medium to coarse grained, traces of gravel, slight odor		6.5	80			* Soil sample from 8-10 ft-bgs submitted for laboratory analysis.
					11.0				
15	SW				11.1	90			* Soil sample from 12-14 ft-bgs submitted for laboratory analysis.
					10.8				
25			End of Boring						

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TFV = Total Flame-Ionization Vapors
PPM = Parts Per Million
BGS = Below Ground Surface
USCS = United Soil Classification System

Water Level Observations:
Noted on Rods:
At Completion:

APPENDIX C

INJECTION LOGS

MUNDELL & ASSOCIATES, INC.**FIELD BORING LOG****Injection NO: B-1****CLIENT: AIMCO****PROJECT LOCATION: Indianapolis, Indiana****PROJECT NAME: Michigan Meadows Apartments****PROJECT NO: M01046****DRILLING CONTRACTOR: Midway Services, Inc.****DRILLER: Mark Hicks****BORING LOCATION: Source Area B (Parking Lot of Michigan Plaza)****FIELD SCIENTIST: LL/AD/****DATE BEGAN: 2/9/2009 (10:00AM)****DATE FINISHED: 2/9/2009 (10:33 AM)****DRILLING METHOD: Direct Push****DRILL EQUIP: Geoprobe****GW Depth (OBSERVED):****DEPTH OF BORING: 38ft.****SURFACE ELEVATION: N/A****TOP OF CASING ELEVATION: N/A**

GEOLOGIC DESCRIPTION	STRATUM DEPTH, ft	DEPTH FT	GALLONS INJECTED PER INTERVAL	COMMENTS
Ground surface is Asphalt.		1	11	Total 65 Gallons
		2		
		3		
		4		
		5		
		6		
		7		
		8		
		9		
		10		
		11		
		12		
		13		
		14		
		15		
		16		
		17		
		18		
		19		
		20		
		21	11	
		22		
		23	11	
		24	11	
		25		
		26		
		27	11	
		28		
		29		
		30	11	
		31		
		32		
33	5			
34				
35				
36	5			
37				
38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				
Water Level Observations: Noted on Rods: _____' At Completion:	Sampling Methods: LBS - Large Bore Sampler MBS - Macro Bore Sampler HSA - Hollow Stem Auger GEO - Geoprobe	Notes: TPV - Total Photoionizable Vapors ND - Not Detected * - Water Sample(s) Retained for Laboratory Analysis		

Page 1 of 1

MUNDELL & ASSOCIATES, INC.**FIELD BORING LOG****Injection NO: B-2****CLIENT: AIMCO****PROJECT LOCATION: Indianapolis, Indiana****PROJECT NAME: Michigan Meadows Apartments****PROJECT NO: M01046****DRILLING CONTRACTOR: Midway Services, Inc.****DRILLER: Mark Hicks****BORING LOCATION: Source Area B (Parking Lot of Michigan Plaza)****FIELD SCIENTIST: LL/AD/****DATE BEGAN: 2/9/2009 (10:40 AM)****DATE FINISHED: 2/9/2009 (11:50 AM)****DRILLING METHOD: Direct Push****DRILL EQUIP: Geoprobe****GW Depth (OBSERVED):****DEPTH OF BORING: 38ft.****SURFACE ELEVATION: N/A****TOP OF CASING ELEVATION: N/A**

GEOLOGIC DESCRIPTION	STRATUM DEPTH, ft	DEPTH FT	GALLONS INJECTED PER INTERVAL	COMMENTS
Ground surface is Asphalt.		1		
		2		
		3		
		4		
		5		
		6		
		7		
		8		
		9		
		10		
		11		
		12		
		13		
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		20	11	
		21		
		22		
		23	11	
		24		
		25		
		26	11	
		27		
		28		
		29	11	
		30		
		31		
		32	11	
33				
34				
35	5			
36				
37				
38	5			
39		Total 65 Gallons		
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				
Water Level Observations: Noted on Rods: _____' At Completion:	Sampling Methods: LBS - Large Bore Sampler MBS - Macro Bore Sampler HSA - Hollow Stem Auger GEO - Geoprobe	Notes: TPV - Total Photoionizable Vapors ND - Not Detected * - Water Sample(s) Retained for Laboratory Analysis		

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MUNDELL & ASSOCIATES, INC.**FIELD BORING LOG****Injection NO: B-3****CLIENT: AIMCO****PROJECT LOCATION: Indianapolis, Indiana****PROJECT NAME: Michigan Meadows Apartments****PROJECT NO: M01046****DRILLING CONTRACTOR: Midway Services, Inc.****DRILLER: Mark Hicks****BORING LOCATION: Source Area B (Parking Lot of Michigan Plaza)****FIELD SCIENTIST: LL/AD/****DATE BEGAN: 2/9/2009 (12:05 PM)****DATE FINISHED: 2/9/2009 (1:12 PM)****DRILLING METHOD: Direct Push****DRILL EQUIP: Geoprobe****GW Depth (OBSERVED):****DEPTH OF BORING: 35ft.****SURFACE ELEVATION: N/A****TOP OF CASING ELEVATION: N/A**

GEOLOGIC DESCRIPTION	STRATUM DEPTH, ft	DEPTH FT	GALLONS INJECTED PER INTERVAL	COMMENTS	
Ground surface is Asphalt.		1			
		2			
		3			
		4			
		5			
		6			
		7			
		8			
		9			
		10			
		11			
		12			
		13			
		14			
		15			
		16			
		17			
		18			
		19			
		20			
		21	12		
		22			
		23	12		
		24	12		
		25			
		26			
		27	12		
		28			
		29			
		30	12		
		31			
		32			
		33	5		
		34			
		35			
		36			hardpan encountered at 35' began injections accordingly Total 65 Gallons
		37			
		38			
		39			
		40			
		41			
		42			
		43			
		44			
		45			
		46			
		47			
		48			
		49			
		50			
Water Level Observations: Noted on Rods: _____' At Completion:	Sampling Methods: LBS - Large Bore Sampler MBS - Macro Bore Sampler HSA - Hollow Stem Auger GEO - Geoprobe	Notes: TPV - Total Photoionizable Vapors ND - Not Detected * - Water Sample(s) Retained for Laboratory Analysis			

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MUNDELL & ASSOCIATES, INC.**FIELD BORING LOG****Injection NO: B-4****CLIENT: AIMCO****PROJECT LOCATION: Indianapolis, Indiana****PROJECT NAME: Michigan Meadows Apartments****PROJECT NO: M01046****DRILLING CONTRACTOR: Midway Services, Inc.****DRILLER: Mark Hicks****BORING LOCATION: Source Area B (Parking Lot of Michigan Plaza)****FIELD SCIENTIST: LL/AD/****DATE BEGAN: 2/9/2009 (2:30 PM)****DATE FINISHED: 2/9/2009 (3:25 PM)****DRILLING METHOD: Direct Push****DRILL EQUIP: Geoprobe****GW Depth (OBSERVED):****DEPTH OF BORING: 38ft.****SURFACE ELEVATION: N/A****TOP OF CASING ELEVATION: N/A**

GEOLOGIC DESCRIPTION	STRATUM DEPTH, ft	DEPTH FT	GALLONS INJECTED PER INTERVAL	COMMENTS
Ground surface is Asphalt.		1	11	Total 65 Gallons Hardpan encountered at 40'
		2		
		3		
		4		
		5		
		6		
		7		
		8		
		9		
		10		
		11		
		12		
		13		
		14		
		15		
		16		
		17		
		18		
		19		
		20		
		21	11	
		22		
		23	11	
		24	11	
		25		
		26	11	
		27	11	
		28		
		29	11	
		30	11	
		31		
32	11			
33	5			
34				
35	5			
36	5			
37				
38	5			
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				
Water Level Observations: Noted on Rods: _____' At Completion:	Sampling Methods: LBS - Large Bore Sampler MBS - Macro Bore Sampler HSA - Hollow Stem Auger GEO - Geoprobe	Notes: TPV - Total Photoionizable Vapors ND - Not Detected * - Water Sample(s) Retained for Laboratory Analysis		

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MUNDELL & ASSOCIATES, INC.**FIELD BORING LOG****Injection NO: B-5****CLIENT: AIMCO****PROJECT LOCATION: Indianapolis, Indiana****PROJECT NAME: Michigan Meadows Apartments****PROJECT NO: M01046****DRILLING CONTRACTOR: Midway Services, Inc.****DRILLER: Mark Hicks and Zach****BORING LOCATION: Source Area B (Michigan Plaza Parking Lot)****FIELD SCIENTIST: LL/AD/****DATE BEGAN: 2/9/2009 (15:35)****DATE FINISHED: 2/9/2009 (17:00)****DRILLING METHOD: Direct Push****DRILL EQUIP: Geoprobe****GW Depth (OBSERVED):****DEPTH OF BORING: 38ft.****SURFACE ELEVATION: N/A****TOP OF CASING ELEVATION: N/A**

GEOLOGIC DESCRIPTION	STRATUM DEPTH, ft	DEPTH FT	GALLONS INJECTED PER INTERVAL	COMMENTS
Ground surface is Asphalt.		1	11	Total 65 Gallons
		2		
		3		
		4		
		5		
		6		
		7		
		8		
		9		
		10		
		11		
		12		
		13		
		14		
		15		
		16		
		17		
		18		
		19		
		20		
		21	11	
		22		
		23	11	
		24	11	
		25		
		26		
		27	11	
		28		
		29		
		30	11	
31				
32				
33	5			
34				
35				
36	5			
37				
38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				
Water Level Observations: Noted on Rods: _____' At Completion:	Sampling Methods: LBS - Large Bore Sampler MBS - Macro Bore Sampler HSA - Hollow Stem Auger GEO - Geoprobe	Notes: TPV - Total Photoionizable Vapors ND - Not Detected * - Water Sample(s) Retained for Laboratory Analysis		

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MUNDELL & ASSOCIATES, INC.**FIELD BORING LOG****Injection NO: B-6****CLIENT: AIMCO****PROJECT LOCATION: Indianapolis, Indiana****PROJECT NAME: Michigan Meadows Apartments****PROJECT NO: M01046****DRILLING CONTRACTOR: Midway Services, Inc.****DRILLER: Mark Hicks and Zach****BORING LOCATION: Source Area B (Michigan Plaza Parking Lot)****FIELD SCIENTIST: LL/AD/****DATE BEGAN: 2/10/2009 (8:45)****DATE FINISHED: 2/10/2009 (10:05)****DRILLING METHOD: Direct Push****DRILL EQUIP: Geoprobe****GW Depth (OBSERVED):****DEPTH OF BORING: 39ft.****SURFACE ELEVATION: N/A****TOP OF CASING ELEVATION: N/A**

GEOLOGIC DESCRIPTION	STRATUM DEPTH, ft	DEPTH FT	GALLONS INJECTED PER INTERVAL	COMMENTS	
Ground surface is Asphalt.		1			
		2			
		3			
		4			
		5			
		6			
		7			
		8			
		9			
		10			
		11			
		12			
		13			
		14			
		15			
		16			
		17			
		18			
		19			
		20			11
		21			
		22			
		23	11		
		24			
		25			
		26	11		
		27			
		28			
		29	11		
		30			
		31			
		32	11		
		33			
		34			
		35	5		
		36			
		37			
		38	5		
		39			Total 65 Gallons
		40			Two hard ubits encountered here: one at 32'; the other at 39'
		41			
		42			
		43			
		44			
		45			
		46			
		47			
		48			
		49			
		50			
Water Level Observations: Noted on Rods: _____' At Completion:	Sampling Methods: LBS - Large Bore Sampler MBS - Macro Bore Sampler HSA - Hollow Stem Auger GEO - Geoprobe	Notes: TPV - Total Photoionizable Vapors ND - Not Detected * - Water Sample(s) Retained for Laboratory Analysis			

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MUNDELL & ASSOCIATES, INC.**FIELD BORING LOG****Injection NO: B-7****CLIENT: AIMCO****PROJECT LOCATION: Indianapolis, Indiana****PROJECT NAME: Michigan Meadows Apartments****PROJECT NO: M01046****DRILLING CONTRACTOR: Midway Services, Inc.****DRILLER: Mark Hicks and Zach****BORING LOCATION: Source Area B (Michigan Plaza Parking Lot)****FIELD SCIENTIST: LL/AD/****DATE BEGAN: 2/10/2009 (10:10)****DATE FINISHED: 2/10/2009 (11:35)****DRILLING METHOD: Direct Push****DRILL EQUIP: Geoprobe****GW Depth (OBSERVED):****DEPTH OF BORING: 38ft.****SURFACE ELEVATION: N/A****TOP OF CASING ELEVATION: N/A**

GEOLOGIC DESCRIPTION	STRATUM DEPTH, ft	DEPTH FT	GALLONS INJECTED PER INTERVAL	COMMENTS
Ground surface is Asphalt.		1		
		2		
		3		
		4		
		5		
		6		
		7		
		8		
		9		
		10		
		11		
		12		
		13		
		14		
		15		
		16		
		17		
		18		
		19		
		20		
		21		
		22		
		23	11	
		24		
		25		
		26	11	
		27		
		28		
		29		
		30		
		31		
		32		
33				
34				
35		5		
36				
37				
38		5		
39		Total 65 Gallons Hard pan at 38'		
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				
Water Level Observations: Noted on Rods: _____' At Completion:	Sampling Methods: LBS - Large Bore Sampler MBS - Macro Bore Sampler HSA - Hollow Stem Auger GEO - Geoprobe	Notes: TPV - Total Photoionizable Vapors ND - Not Detected * - Water Sample(s) Retained for Laboratory Analysis		

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MUNDELL & ASSOCIATES, INC.**FIELD BORING LOG****Injection NO: B-8****CLIENT: AIMCO****PROJECT LOCATION: Indianapolis, Indiana****PROJECT NAME: Michigan Meadows Apartments****PROJECT NO: M01046****DRILLING CONTRACTOR: Midway Services, Inc.****DRILLER: Mark Hicks****BORING LOCATION: Source Area B (Parking Lot of Michigan Plaza)****FIELD SCIENTIST: LL/AD/****DATE BEGAN: 2/9/2009 (2:30 PM)****DATE FINISHED: 2/9/2009 (3:25 PM)****DRILLING METHOD: Direct Push****DRILL EQUIP: Geoprobe****GW Depth (OBSERVED):****DEPTH OF BORING: 38ft.****SURFACE ELEVATION: N/A****TOP OF CASING ELEVATION: N/A**

GEOLOGIC DESCRIPTION	STRATUM DEPTH, ft	DEPTH FT	GALLONS INJECTED PER INTERVAL	COMMENTS	
Ground surface is Asphalt.		1			
		2			
		3			
		4			
		5			
		6			
		7			
		8			
		9			
		10			
		11			
		12			
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		20	11		
		21	11		
		22			
		23	11		
		24	11		
		25			
		26	11		
		27	11		
		28			
		29	11		
		30	11		
		31			
		32	11		
		33	5		
		34			
		35	5		
		36	5		
		37			
		38	5		
		39			Total 65 Gallons Pump for CAP-18 went out 1:35 P Mark working to get it fixed
		40			
		41			
		42			
		43			
		44			
		45			
		46			
		47			
		48			
		49			
		50			
Water Level Observations: Noted on Rods: _____' At Completion:	Sampling Methods: LBS - Large Bore Sampler MBS - Macro Bore Sampler HSA - Hollow Stem Auger GEO - Geoprobe	Notes: TPV - Total Photoionizable Vapors ND - Not Detected * - Water Sample(s) Retained for Laboratory Analysis			

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Total 65 Gallons

Pump for CAP-18 went out
1:35 P Mark working to get it fixed

MUNDELL & ASSOCIATES, INC.**FIELD BORING LOG****Injection NO: B-9****CLIENT: AIMCO****PROJECT LOCATION: Indianapolis, Indiana****PROJECT NAME: Michigan Meadows Apartments****PROJECT NO: M01046****DRILLING CONTRACTOR: Midway Services, Inc.****DRILLER: Mark Hicks****BORING LOCATION: Source Area B (Parking Lot of Michigan Plaza)****FIELD SCIENTIST: LL/AD/****DATE BEGAN: 2/10/2009 (2:45 PM)****DATE FINISHED: 2/10/2009 (4:00 PM)****DRILLING METHOD: Direct Push****DRILL EQUIP: Geoprobe****GW Depth (OBSERVED):****DEPTH OF BORING: 38ft.****SURFACE ELEVATION: N/A****TOP OF CASING ELEVATION: N/A**

GEOLOGIC DESCRIPTION	STRATUM DEPTH, ft	DEPTH FT	GALLONS INJECTED PER INTERVAL	COMMENTS
Ground surface is Asphalt.		1		
		2		
		3		
		4		
		5		
		6		
		7		
		8		
		9		
		10		
		11		
		12		
		13		
		14		
		15		
		16		
		17		
		18		
		19		
		20		
		21	11	
		22		
		23	11	
		24	11	
		25		
		26	11	
		27	11	
		28		
		29	11	
		30	11	
		31		
		32	11	
33	5			
34				
35	5			
36	5			
37				
38	5			
39		Total 65 Gallons		
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				
Water Level Observations: Noted on Rods: _____' At Completion:	Sampling Methods: LBS - Large Bore Sampler MBS - Macro Bore Sampler HSA - Hollow Stem Auger GEO - Geoprobe	Notes: TPV - Total Photoionizable Vapors ND - Not Detected * - Water Sample(s) Retained for Laboratory Analysis		

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MUNDELL & ASSOCIATES, INC.**FIELD BORING LOG**Injection NO: C1

CLIENT: AIMCO

PROJECT LOCATION: Indianapolis, Indiana

PROJECT NAME: Michigan Meadows Apartments

PROJECT NO: M01046

DRILLING CONTRACTOR: Midway Services, Inc.

DRILLER: Mark Hicks / Zack

BORING LOCATION: Source Area C (West of Building 1)

FIELD SCIENTIST: LL/AD/

DATE BEGAN: 2/11/2009 (9:00AM)

DATE FINISHED: 2/11/2009 (10:15AM)

DRILLING METHOD: Direct Push

DRILL EQUIP: Geoprobe

GW Depth (OBSERVED):

DEPTH OF BORING: 40ft.

SURFACE ELEVATION: N/A

TOP OF CASING ELEVATION: N/A

GEOLOGIC DESCRIPTION	STRATUM DEPTH, ft	DEPTH FT	GALLONS INJECTED PER INTERVAL	COMMENTS
Ground surface is grass.		1		
		2		
		3		
		4		
		5		
		6		
		7		
		8		
		9		
		10		
		11		
		12		
		13		
		14		
		15		
		16		
		17		
		18		
		19		
		20		
		21		
		22	11	
		23		
		24		
		25		
		26		
		27		
		28		
		29		
		30		
		31		
		32		
33				
34	11			
35				
36				
37		5		
38				
39				
40		5		
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				
Water Level Observations: Noted on Rods: _____' At Completion:		Sampling Methods: LBS - Large Bore Sampler MBS - Macro Bore Sampler HSA - Hollow Stem Auger GEO - Geoprobe	Notes: TPV - Total Photoionizable Vapors ND - Not Detected * - Water Sample(s) Retained for Laboratory Analysis	

Total 65 Gallons

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Total 65 Gallons

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MUNDELL & ASSOCIATES, INC.**FIELD BORING LOG**Injection NO: C2

CLIENT: AIMCO

PROJECT LOCATION: Indianapolis, Indiana

PROJECT NAME: Michigan Meadows Apartments

PROJECT NO: M01046

DRILLING CONTRACTOR: Midway Services, Inc.

DRILLER: Mark Hicks / Zack

BORING LOCATION: Source Area C (West of Building 1)

FIELD SCIENTIST: LL/AD/

DATE BEGAN: 2/11/2009 (10:30AM)

DATE FINISHED: 2/11/2009 (11:45AM)

DRILLING METHOD: Direct Push

DRILL EQUIP: Geoprobe

GW Depth (OBSERVED):

DEPTH OF BORING: 36ft.

SURFACE ELEVATION: N/A

TOP OF CASING ELEVATION: N/A

GEOLOGIC DESCRIPTION	STRATUM DEPTH, ft	DEPTH FT	GALLONS INJECTED PER INTERVAL	COMMENTS
Ground surface is Asphalt.		1		Total of 65 Gallons
		2		
		3		
		4		
		5		
		6		
		7		
		8		
		9		
		10		
		11		
		12		
		13		
		14		
		15		
		16	10	
		17		
		18	10	
		19	10	
		20		
		21		
		22	10	
		23		
		24	10	
		25	10	
		26		
		27		
		28	5	
		29		
		30		
		31	5	
		32		
		33		
		34	5	
		35		
		36		
		37		
		38		
		39		
		40		
		41		
		42		
		43		
		44		
		45		
		46		
		47		
		48		
		49		
		50		
Water Level Observations: Noted on Rods: _____' At Completion:	Sampling Methods: LBS - Large Bore Sampler MBS - Macro Bore Sampler HSA - Hollow Stem Auger GEO - Geoprobe	Notes: TPV - Total Photoionizable Vapors ND - Not Detected * - Water Sample(s) Retained for Laboratory Analysis		

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MUNDELL & ASSOCIATES, INC.**FIELD BORING LOG**Injection NO: C-3

CLIENT: AIMCO

PROJECT LOCATION: Indianapolis, Indiana

PROJECT NAME: Michigan Meadows Apartments

PROJECT NO: M01046

DRILLING CONTRACTOR: Midway Services, Inc.

DRILLER: Mark Hicks and Zach

BORING LOCATION: Source Area C (West of Building 1)

FIELD SCIENTIST: SW

DATE BEGAN: 2/11/2009

DATE FINISHED: 2/11/2009 (14:15)

DRILLING METHOD: Direct Push

DRILL EQUIP: Geoprobe

GW Depth (OBSERVED):

DEPTH OF BORING: 36ft.

SURFACE ELEVATION: N/A

TOP OF CASING ELEVATION: N/A

GEOLOGIC DESCRIPTION	STRATUM DEPTH, ft	DEPTH FT	GALLONS INJECTED PER INTERVAL	COMMENTS
Ground surface is Asphalt.		1	11	formation would not accept CAP-18 at these depths (between 30 and 36') ~ 5 gallons accepted between 36 and 30 feet Total 64 Gallons 13:15 Really having trouble here. Injection tip seems to be getting clogged with silt from the formation. Pulled all rods and tip, cleared and cleaned. Reinserted at C-3 location and are trying again for acceptance of CAP-18 by the formation. C-3 completed at 14:15. 64 gallons were injected at this location - formation was very resistant at all intervals, but especially after 29 feet (29-36). Once completed, CAP-18 visible at the top of the borehole.
		2		
		3		
		4		
		5		
		6		
		7		
		8		
		9		
		10		
		11		
		12		
		13		
		14		
		15		
		16	11	
		17		
		18		
		19	11	
		20		
		21		
		22	11	
		23		
		24		
		25	15	
		26		
		27		
		28	5	
		29		
		30		
		31	0	
		32		
		33		
		34	0	
		35		
		36		
		37		
		38		
		39		
		40		
		41		
		42		
		43		
		44		
		45		
		46		
		47		
		48		
		49		
		50		
Water Level Observations: Noted on Rods: _____' At Completion:	Sampling Methods: LBS - Large Bore Sampler MBS - Macro Bore Sampler HSA - Hollow Stem Auger GEO - Geoprobe	Notes: TPV - Total Photoionizable Vapors ND - Not Detected * - Water Sample(s) Retained for Laboratory Analysis		

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MUNDELL & ASSOCIATES, INC.**FIELD BORING LOG****Injection NO: C-4****CLIENT: AIMCO****PROJECT LOCATION: Indianapolis, Indiana****PROJECT NAME: Michigan Meadows Apartments****PROJECT NO: M01046****DRILLING CONTRACTOR: Midway Services, Inc.****DRILLER: Mark Hicks and Zach****BORING LOCATION: Source Area C (West of Building 1)****FIELD SCIENTIST: SW****DATE BEGAN: 2/11/2009 (14:30)****DATE FINISHED: 2/11/2009 (15:20)****DRILLING METHOD: Direct Push****DRILL EQUIP: Geoprobe****GW Depth (OBSERVED):****DEPTH OF BORING: 36ft.****SURFACE ELEVATION: N/A****TOP OF CASING ELEVATION: N/A**

GEOLOGIC DESCRIPTION	STRATUM DEPTH, ft	DEPTH FT	GALLONS INJECTED PER INTERVAL	COMMENTS
Ground surface is Asphalt.		1		
		2		
		3		
		4		
		5		
		6		
		7		
		8		
		9		
		10		
		11		
		12		
		13		
		14		
		15		
		16	10	
		17		
		18		
		19	10	
		20		
		21		
		22	10	
		23		
		24		
		25	13	
		26		
		27		
		28	4	
		29		
		30		
		31	4	
		32		
		33		
		34	4	
		35		
		36		
37		Total 65 Gallons		
38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				
Water Level Observations: Noted on Rods: _____' At Completion:			Sampling Methods: LBS - Large Bore Sampler MBS - Macro Bore Sampler HSA - Hollow Stem Auger GEO - Geoprobe	Notes: TPV - Total Photoionizable Vapors ND - Not Detected * - Water Sample(s) Retained for Laboratory Analysis

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MUNDELL & ASSOCIATES, INC.**FIELD BORING LOG****Injection NO: C-5****CLIENT: AIMCO****PROJECT LOCATION: Indianapolis, Indiana****PROJECT NAME: Michigan Meadows Apartments****PROJECT NO: M01046****DRILLING CONTRACTOR: Midway Services, Inc.****DRILLER: Mark Hicks and Zach****BORING LOCATION: Source Area C (West of Building 1)****FIELD SCIENTIST: SW****DATE BEGAN: 2/11/2009 (15:25)****DATE FINISHED: 2/11/2009 (16:30)****DRILLING METHOD: Direct Push****DRILL EQUIP: Geoprobe****GW Depth (OBSERVED):****DEPTH OF BORING: 36ft.****SURFACE ELEVATION: N/A****TOP OF CASING ELEVATION: N/A**

GEOLOGIC DESCRIPTION	STRATUM DEPTH, ft	DEPTH FT	GALLONS INJECTED PER INTERVAL	COMMENTS
Ground surface is Asphalt.		1		
		2		
		3		
		4		
		5		
		6		
		7		
		8		
		9		
		10		
		11		
		12		
		13		
		14		
		15	10	
		16		
		17		
		18	10	
		19		
		20		
		21	10	
		22		
		23		
		24	10	
		25		
		26		
		27	10	
		28		
		29		
		30	5	
		31		
		32		
		33	5	
		34		
		35		
		36	5	
		37		
		38		
		39		
		40		
		41		
		42		
		43		
		44		
		45		
		46		
		47		
		48		
		49		
		50		
Water Level Observations: Noted on Rods: _____' At Completion:	Sampling Methods: LBS - Large Bore Sampler MBS - Macro Bore Sampler HSA - Hollow Stem Auger GEO - Geoprobe	Notes: TPV - Total Photoionizable Vapors ND - Not Detected * - Water Sample(s) Retained for Laboratory Analysis		

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Total 65 Gallons

No problems with formation acceptance at this location. All borings filled with bentonite chips and covered in asphalt patch.

MUNDELL & ASSOCIATES, INC.**FIELD BORING LOG****Injection NO: C-6****CLIENT: AIMCO****PROJECT LOCATION: Indianapolis, Indiana****PROJECT NAME: Michigan Meadows Apartments****PROJECT NO: M01046****DRILLING CONTRACTOR: Midway Services, Inc.****DRILLER: Mark Hicks and Zach****BORING LOCATION: Source Area C (West of Building 1)****FIELD SCIENTIST: SW****DATE BEGAN: 2/12/2009 (9:15)****DATE FINISHED: 2/12/2009 (10:10)****DRILLING METHOD: Direct Push****DRILL EQUIP: Geoprobe****GW Depth (OBSERVED):****DEPTH OF BORING: 36ft.****SURFACE ELEVATION: N/A****TOP OF CASING ELEVATION: N/A**

GEOLOGIC DESCRIPTION	STRATUM DEPTH, ft	DEPTH FT	GALLONS INJECTED PER INTERVAL	COMMENTS	
Ground surface is Asphalt.		1	10	Total 65 Gallons Probe pushed easily through the entire interval.	
		2			
		3			
		4			
		5			
		6			
		7			
		8			
		9			
		10			
		11			
		12			
		13			
		14			
		15			
		16	10		
		17			
		18	10		
		19			
		20	10		
		21			
		22	10		
		23			
		24	10		
		25			
		26	10		
		27			
		28	5		
		29			
		30	5		
		31			
		32	5		
		33			
		34	5		
		35			
		36	5		
		37			
		38			
		39			
		40			
		41			
		42			
		43			
		44			
		45			
		46			
		47			
		48			
		49			
		50			
Water Level Observations: Noted on Rods: _____' At Completion:	Sampling Methods: LBS - Large Bore Sampler MBS - Macro Bore Sampler HSA - Hollow Stem Auger GEO - Geoprobe	Notes: TPV - Total Photoionizable Vapors ND - Not Detected * - Water Sample(s) Retained for Laboratory Analysis			

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MUNDELL & ASSOCIATES, INC.**FIELD BORING LOG****Injection NO: C-7****CLIENT: AIMCO****PROJECT LOCATION: Indianapolis, Indiana****PROJECT NAME: Michigan Meadows Apartments****PROJECT NO: M01046****DRILLING CONTRACTOR: Midway Services, Inc.****DRILLER: Mark Hicks and Zach****BORING LOCATION: Source Area C (West of Building 1)****FIELD SCIENTIST: SW****DATE BEGAN: 2/12/2009 (14:00)****DATE FINISHED: 2/12/2009 (15:00)****DRILLING METHOD: Direct Push****DRILL EQUIP: Geoprobe****GW Depth (OBSERVED):****DEPTH OF BORING: 36ft.****SURFACE ELEVATION: N/A****TOP OF CASING ELEVATION: N/A**

GEOLOGIC DESCRIPTION	STRATUM DEPTH, ft	DEPTH FT	GALLONS INJECTED PER INTERVAL	COMMENTS
Ground surface is asphalt.		1		
		2		
		3		
		4		
		5		
		6		
		7		
		8		
		9		
		10		
		11		
		12		
		13		
		14		
		15		
		16	10	
		17		
		18		
		19	10	
		20		
		21		
		22	10	
		23		
		24		
		25	10	
		26		
		27		
		28	10	
		29		
		30		
		31	5	
		32		
		33		
		34	5	
		35		
		36		
37	5	Total 65 Gallons		
38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				
Water Level Observations: Noted on Rods: _____' At Completion:	Sampling Methods: LBS - Large Bore Sampler MBS - Macro Bore Sampler HSA - Hollow Stem Auger GEO - Geoprobe		Notes: TPV - Total Photoionizable Vapors ND - Not Detected * - Water Sample(s) Retained for Laboratory Analysis	

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MUNDELL & ASSOCIATES, INC.**FIELD BORING LOG****Injection NO: C-8****CLIENT: AIMCO****PROJECT LOCATION: Indianapolis, Indiana****PROJECT NAME: Michigan Meadows Apartments****PROJECT NO: M01046****DRILLING CONTRACTOR: Midway Services, Inc.****DRILLER: Mark Hicks and Zach****BORING LOCATION: Source Area C (West of Building 1)****FIELD SCIENTIST: SW****DATE BEGAN: 2/12/2009 (12:45)****DATE FINISHED: 2/12/2009 (13:50)****DRILLING METHOD: Direct Push****DRILL EQUIP: Geoprobe****GW Depth (OBSERVED):****DEPTH OF BORING: 36ft.****SURFACE ELEVATION: N/A****TOP OF CASING ELEVATION: N/A**

GEOLOGIC DESCRIPTION	STRATUM DEPTH, ft	DEPTH FT	GALLONS INJECTED PER INTERVAL	COMMENTS
Ground surface is asphalt.		1		
		2		
		3		
		4		
		5		
		6		
		7		
		8		
		9		
		10		
		11		
		12		
		13		
		14		
		15	10	
		16		
		17		
		18	10	
		19		
		20		
		21	10	
		22		
		23		
		24	10	
		25		
		26		
		27	10	
		28		
		29		
		30	5	
		31		
		32		
		33	5	
		34		
		35		
		36	5	
		37		
		38		
		39		
		40		
		41		
		42		
		43		
		44		
		45		
		46		
		47		
		48		
		49		
		50		
Water Level Observations: Noted on Rods: _____' At Completion:	Sampling Methods: LBS - Large Bore Sampler MBS - Macro Bore Sampler HSA - Hollow Stem Auger GEO - Geoprobe	Notes: TPV - Total Photoionizable Vapors ND - Not Detected * - Water Sample(s) Retained for Laboratory Analysis		

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Total 65 Gallons

Formation accepted all CAP-18 with no problems at any interval.

MUNDELL & ASSOCIATES, INC.**FIELD BORING LOG****Injection NO: C-9****CLIENT: AIMCO****PROJECT LOCATION: Indianapolis, Indiana****PROJECT NAME: Michigan Meadows Apartments****PROJECT NO: M01046****DRILLING CONTRACTOR: Midway Services, Inc.****DRILLER: Mark Hicks and Zach****BORING LOCATION: Source Area C (West of Building 1)****FIELD SCIENTIST: SW****DATE BEGAN: 2/12/2009 (11:35)****DATE FINISHED: 2/12/2009 (12:30)****DRILLING METHOD: Direct Push****DRILL EQUIP: Geoprobe****GW Depth (OBSERVED):****DEPTH OF BORING: 36ft.****SURFACE ELEVATION: N/A****TOP OF CASING ELEVATION: N/A**

GEOLOGIC DESCRIPTION	STRATUM DEPTH, ft	DEPTH FT	GALLONS INJECTED PER INTERVAL	COMMENTS
Ground surface is Grass.		1	10	Total 65 Gallons No difficult intervals encountered. CAP-18 accepted by the formation without issue.
		2		
		3		
		4		
		5		
		6		
		7		
		8		
		9		
		10		
		11		
		12		
		13		
		14		
		15		
		16	10	
		17		
		18		
		19	10	
		20		
		21		
		22	10	
		23		
		24		
		25	10	
		26		
		27		
		28	5	
		29		
		30		
		31	5	
		32		
33				
34	5			
35				
36				
37				
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39				
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41				
42				
43				
44				
45				
46				
47				
48				
49				
50				
Water Level Observations: Noted on Rods: _____' At Completion:		Sampling Methods: LBS - Large Bore Sampler MBS - Macro Bore Sampler HSA - Hollow Stem Auger GEO - Geoprobe	Notes: TPV - Total Photoionizable Vapors ND - Not Detected * - Water Sample(s) Retained for Laboratory Analysis	

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MUNDELL & ASSOCIATES, INC.**FIELD BORING LOG****Injection NO: C-10****CLIENT: AIMCO****PROJECT LOCATION: Indianapolis, Indiana****PROJECT NAME: Michigan Meadows Apartments****PROJECT NO: M01046****DRILLING CONTRACTOR: Midway Services, Inc.****DRILLER: Mark Hicks and Zach****BORING LOCATION: Source Area C (West of Building 1)****FIELD SCIENTIST: SW****DATE BEGAN: 2/12/2009 (11:35)****DATE FINISHED: 2/12/2009 (12:30)****DRILLING METHOD: Direct Push****DRILL EQUIP: Geoprobe****GW Depth (OBSERVED):****DEPTH OF BORING: 36ft.****SURFACE ELEVATION: N/A****TOP OF CASING ELEVATION: N/A**

GEOLOGIC DESCRIPTION	STRATUM DEPTH, ft	DEPTH FT	GALLONS INJECTED PER INTERVAL	COMMENTS
Ground surface is Grass.		1	10	Total 65 Gallons No difficult intervals encountered. CAP-18 accepted by the formation without issue.
		2		
		3		
		4		
		5		
		6		
		7		
		8		
		9		
		10		
		11		
		12		
		13		
		14		
		15		
		16	10	
		17		
		18	10	
		19		
		20	10	
		21		
		22	10	
		23		
		24	10	
		25		
		26	10	
		27		
		28	5	
		29		
		30	5	
		31		
		32	5	
		33		
		34	5	
		35		
		36	5	
		37		
		38		
		39		
		40		
		41		
		42		
		43		
		44		
		45		
		46		
		47		
		48		
		49		
		50		
Water Level Observations: Noted on Rods: _____' At Completion:	Sampling Methods: LBS - Large Bore Sampler MBS - Macro Bore Sampler HSA - Hollow Stem Auger GEO - Geoprobe	Notes: TPV - Total Photoionizable Vapors ND - Not Detected * - Water Sample(s) Retained for Laboratory Analysis		

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MUNDELL & ASSOCIATES, INC.**FIELD BORING LOG****Injection NO: C-11****CLIENT: AIMCO****PROJECT LOCATION: Indianapolis, Indiana****PROJECT NAME: Michigan Meadows Apartments****PROJECT NO: M01046****DRILLING CONTRACTOR: Midway Services, Inc.****DRILLER: Mark Hicks and Zach****BORING LOCATION: Source Area C (West of Building 1)****FIELD SCIENTIST: SW****DATE BEGAN: 2/12/2009 (10:15)****DATE FINISHED: 2/12/2009 (11:25)****DRILLING METHOD: Direct Push****DRILL EQUIP: Geoprobe****GW Depth (OBSERVED):****DEPTH OF BORING: 36ft.****SURFACE ELEVATION: N/A****TOP OF CASING ELEVATION: N/A**

GEOLOGIC DESCRIPTION	STRATUM DEPTH, ft	DEPTH FT	GALLONS INJECTED PER INTERVAL	COMMENTS
Ground surface is Grass.		1		Total 65 Gallons <

Total 65 Gallons

No extremely hard intervals encountered in the boring interval (0-36). Formation accepted all CAP-18 with no problems.

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MUNDELL & ASSOCIATES, INC.**FIELD BORING LOG****Injection NO: C-12****CLIENT: AIMCO****PROJECT LOCATION: Indianapolis, Indiana****PROJECT NAME: Michigan Meadows Apartments****PROJECT NO: M01046****DRILLING CONTRACTOR: Midway Services, Inc.****DRILLER: Mark Hicks and Zach****BORING LOCATION: Source Area C (West of Building 1)****FIELD SCIENTIST: SW****DATE BEGAN: 2/12/2009 (15:10)****DATE FINISHED: 2/12/2009 (16:00)****DRILLING METHOD: Direct Push****DRILL EQUIP: Geoprobe****GW Depth (OBSERVED):****DEPTH OF BORING: 36ft.****SURFACE ELEVATION: N/A****TOP OF CASING ELEVATION: N/A**

GEOLOGIC DESCRIPTION	STRATUM DEPTH, ft	DEPTH FT	GALLONS INJECTED PER INTERVAL	COMMENTS	
Ground surface is grass.		1	10	Total 65 Gallons Probe Encountered hard unit at ~30'. Mark pushed to 36 and attempted CAP-18 injection. The formation would not accept it. Mark pulled up to 33'- stilll could not inject. At 32' we were able to get 7.5 gallons in, also 30'. Smooth sailing after 30'.	
		2			
		3			
		4			
		5			
		6			
		7			
		8			
		9			
		10			
		11			
		12			
		13			
		14			
		15			
		16	10		
		17			
		18	10		
		19			
		20	10		
		21			
		22	10		
		23			
		24	10		
		25			
		26	10		
		27			
		28	7.5		
		29			
		30	7.5		
		31			
		32	0		
		33			
		34	0		
		35			
		36	0		
		37			
		38			
		39			
		40			
		41			
		42			
		43			
		44			
		45			
		46			
		47			
		48			
		49			
		50			
Water Level Observations: Noted on Rods: _____' At Completion:	Sampling Methods: LBS - Large Bore Sampler MBS - Macro Bore Sampler HSA - Hollow Stem Auger GEO - Geoprobe	Notes: TPV - Total Photoionizable Vapors ND - Not Detected * - Water Sample(s) Retained for Laboratory Analysis			

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Total 65 Gallons

Probe Encountered hard unit at ~30'. Mark pushed to 36 and attempted CAP-18 injection. The formation would not accept it. Mark pulled up to 33'- stilll could not inject. At 32' we were able to get 7.5 gallons in, also 30'. Smooth sailing after 30'.

MUNDELL & ASSOCIATES, INC.**FIELD BORING LOG****Injection NO: C-13****CLIENT: AIMCO****PROJECT LOCATION: Indianapolis, Indiana****PROJECT NAME: Michigan Meadows Apartments****PROJECT NO: M01046****DRILLING CONTRACTOR: Midway Services, Inc.****DRILLER: Mark Hicks and Zach****BORING LOCATION: Source Area C (West of Building 1)****FIELD SCIENTIST: SW****DATE BEGAN: 2/12/2009 (16:10)****DATE FINISHED: 2/12/2009 (17:20)****DRILLING METHOD: Direct Push****DRILL EQUIP: Geoprobe****GW Depth (OBSERVED):****DEPTH OF BORING: 36ft.****SURFACE ELEVATION: N/A****TOP OF CASING ELEVATION: N/A**

GEOLOGIC DESCRIPTION		STRATUM DEPTH, ft	DEPTH FT	GALLONS INJECTED PER INTERVAL	COMMENTS	
			1	10		
			2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			10			
			11			
			12			
			13			
			14			
			15			
			16	10		
			17			
			18			
			19	10		
			20			
			21			
			22	10		
			23			
			24			
			25	10		
			26			
			27			
			28	5*		
			29			
			30			
			31	5*		
			32			
			33			
			34	0*		
			35			
			36			
			37	5		Total 65 Gallons
			38			
			39			
			40			
			41			
			42			
			43			
			44			
			45			
			46			
			47			
			48			
			49			
			50			
Water Level Observations: Noted on Rods: _____' At Completion:		Sampling Methods: LBS - Large Bore Sampler MBS - Macro Bore Sampler HSA - Hollow Stem Auger GEO - Geoprobe			Notes: TPV - Total Photoionizable Vapors ND - Not Detected * - Water Sample(s) Retained for Laboratory Analysis	
Again, hard unit encountered at 30 feet. Pushed through and was able to inject 5 gallons at 36'. 33' would not accept CAP-18 so we pulled up to 32': this depth easilt accepted 5 gallons. 30' resisted injection but we got 5 gallons in despite it.						

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* Difficult Injection

Total 65 Gallons

Again, hard unit encountered at 30 feet. Pushed through and was able to inject 5 gallons at 36'. 33' would not accept CAP-18 so we pulled up to 32'; this depth easilt accepted 5 gallons. 30' resisted injection but we got 5 gallons in despite it.

MUNDELL & ASSOCIATES, INC.**FIELD BORING LOG****Injection NO: SB-1****CLIENT: AIMCO****PROJECT LOCATION: Indianapolis, Indiana****PROJECT NAME: Michigan Meadows Apartments****PROJECT NO: M01046****DRILLING CONTRACTOR: Midway Services, Inc.****DRILLER: Mark Hicks****BORING LOCATION: Source Area A (inside Zacateca's)****FIELD SCIENTIST: LL/AD/****DATE BEGAN: 2/4/2009 (2:47 PM)****DATE FINISHED: 2/4/2009 (3:50 PM)****DRILLING METHOD: Direct Push****DRILL EQUIP: Geoprobe****GW Depth (OBSERVED):****DEPTH OF BORING: 32ft.****SURFACE ELEVATION: N/A****TOP OF CASING ELEVATION: N/A**

GEOLOGIC DESCRIPTION	STRATUM DEPTH, ft	DEPTH FT	GALLONS INJECTED PER INTERVAL	COMMENTS
Ground surface is Asphalt.		1		
		2		
		3		
		4		
		5		
		6		
		7		
		8		
		9		
		10		
		11		
		12		
		13		
		14		
		15		
		16		
		17		
		18		
		19		
		20		
		21	9	
		22		
		23	15	
		24		
		25	15	
		26		
		27	15	
		28		
		29	15	
		30		
		31	10	
		32		
		33	Total 64 Gallons	
		34		
		35		
		36		
		37		
		38		
		39		
		40		
		41		
		42		
		43		
		44		
		45		
		46		
		47		
		48		
		49		
		50		
Water Level Observations: Noted on Rods: _____' At Completion:	Sampling Methods: LBS - Large Bore Sampler MBS - Macro Bore Sampler HSA - Hollow Stem Auger GEO - Geoprobe	Notes: TPV - Total Photoionizable Vapors ND - Not Detected * - Water Sample(s) Retained for Laboratory Analysis		

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MUNDELL & ASSOCIATES, INC.**FIELD BORING LOG****Injection NO: SB-2****CLIENT: AIMCO****PROJECT LOCATION: Indianapolis, Indiana****PROJECT NAME: Michigan Meadows Apartments****PROJECT NO: M01046****DRILLING CONTRACTOR: Midway Services, Inc.****DRILLER: Mark Hicks****BORING LOCATION: Source Area A (inside Zacateca's)****FIELD SCIENTIST: LL/AD/****DATE BEGAN: 2/4/2009 (4:00 PM)****DATE FINISHED: 2/4/2009 (5:02 PM)****DRILLING METHOD: Direct Push****DRILL EQUIP: Geoprobe****GW Depth (OBSERVED):****DEPTH OF BORING: 32ft.****SURFACE ELEVATION: N/A****TOP OF CASING ELEVATION: N/A**

GEOLOGIC DESCRIPTION	STRATUM DEPTH, ft	DEPTH FT	GALLONS INJECTED PER INTERVAL	COMMENTS
Ground surface is Asphalt.		1		
		2		
		3		
		4		
		5		
		6		
		7		
		8		
		9		
		10		
		11		
		12		
		13		
		14		
		15		
		16		
		17		
		18		
		19		
		20		
		21	9	
		22		
		23	15	
		24		
		25	15	
		26		
		27	15	
		28		
		29		
		30	10	
		31		
		32		
		33		
		34		
		35		
		36		
		37		
		38		
		39		
		40		
		41		
		42		
		43		
		44		
		45		
		46		
		47		
		48		
		49		
		50		
Water Level Observations: Noted on Rods: _____' At Completion:	Sampling Methods: LBS - Large Bore Sampler MBS - Macro Bore Sampler HSA - Hollow Stem Auger GEO - Geoprobe	Notes: TPV - Total Photoionizable Vapors ND - Not Detected * - Water Sample(s) Retained for Laboratory Analysis		

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MUNDELL & ASSOCIATES, INC.**FIELD BORING LOG****Injection NO: SB-3****CLIENT: AIMCO****PROJECT LOCATION: Indianapolis, Indiana****PROJECT NAME: Michigan Meadows Apartments****PROJECT NO: M01046****DRILLING CONTRACTOR: Midway Services, Inc.****DRILLER: Mark Hicks****BORING LOCATION: Source Area A (inside Zacateca's)****FIELD SCIENTIST: LL/AD/****DATE BEGAN: 2/5/2009 (8:50 AM)****DATE FINISHED: 2/5/2009****DRILLING METHOD: Direct Push****DRILL EQUIP: Geoprobe****GW Depth (OBSERVED):****DEPTH OF BORING: 32ft.****SURFACE ELEVATION: N/A****TOP OF CASING ELEVATION: N/A**

GEOLOGIC DESCRIPTION	STRATUM DEPTH, ft	DEPTH FT	GALLONS INJECTED PER INTERVAL	COMMENTS
Ground surface is Vinyl Tile, Concrete.		1		
		2		
		3		
		4		
		5		
		6		
		7		
		8		
		9		
		10		
		11		
		12		
		13		
		14		
		15		
		16		
		17		
		18		
		19		
		20	10	
		21		
		22		
		23	16	
		24		
		25		
		26	16	
		27		
		28		
		29	15	
		30		
		31		
		32	10	
33				
34				
35				
36				
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38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				
Water Level Observations: Noted on Rods: _____' At Completion:	Sampling Methods: LBS - Large Bore Sampler MBS - Macro Bore Sampler HSA - Hollow Stem Auger GEO - Geoprobe	Notes: TPV - Total Photoionizable Vapors ND - Not Detected * - Water Sample(s) Retained for Laboratory Analysis		

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MUNDELL & ASSOCIATES, INC.**FIELD BORING LOG****Injection NO: SB-4****CLIENT: AIMCO****PROJECT LOCATION: Indianapolis, Indiana****PROJECT NAME: Michigan Meadows Apartments****PROJECT NO: M01046****DRILLING CONTRACTOR: Midway Services, Inc.****DRILLER: Mark Hicks****BORING LOCATION: Source Area A (inside Zacateca's)****FIELD SCIENTIST: LL/AD/****DATE BEGAN: 2/5/2009 (8:50 AM)****DATE FINISHED: 2/5/2009****DRILLING METHOD: Direct Push****DRILL EQUIP: Geoprobe****GW Depth (OBSERVED):****DEPTH OF BORING: 32ft.****SURFACE ELEVATION: N/A****TOP OF CASING ELEVATION: N/A**

GEOLOGIC DESCRIPTION	STRATUM DEPTH, ft	DEPTH FT	GALLONS INJECTED PER INTERVAL	COMMENTS
Ground surface is Vinyl Tile, Concrete.		1		Total 67 Gallons
		2		
		3		
		4		
		5		
		6		
		7		
		8		
		9		
		10		
		11		
		12		
		13		
		14		
		15		
		16		
		17		
		18		
		19		
		20		
		21		
		22		
		23	16	
		24		
		25		
		26	16	
		27		
		28		
		29	15	
		30		
		31		
		32	10	
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				
Water Level Observations: Noted on Rods: _____' At Completion:	Sampling Methods: LBS - Large Bore Sampler MBS - Macro Bore Sampler HSA - Hollow Stem Auger GEO - Geoprobe	Notes: TPV - Total Photoionizable Vapors ND - Not Detected * - Water Sample(s) Retained for Laboratory Analysis		

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MUNDELL & ASSOCIATES, INC.**FIELD BORING LOG****Injection NO: SB-5****CLIENT: AIMCO****PROJECT LOCATION: Indianapolis, Indiana****PROJECT NAME: Michigan Meadows Apartments****PROJECT NO: M01046****DRILLING CONTRACTOR: Midway Services, Inc.****DRILLER: Mark Hicks****BORING LOCATION: Source Area A (Michigan Plaza Family Laundry)****FIELD SCIENTIST: LL/AD/****DATE BEGAN: 2/5/2009 (3:30 PM)****DATE FINISHED: 2/5/2009 (4:25 PM)****DRILLING METHOD: Direct Push****DRILL EQUIP: Geoprobe****GW Depth (OBSERVED):****DEPTH OF BORING: 32ft.****SURFACE ELEVATION: N/A****TOP OF CASING ELEVATION: N/A**

GEOLOGIC DESCRIPTION	STRATUM DEPTH, ft	DEPTH FT	GALLONS INJECTED PER INTERVAL	COMMENTS
Ground surface is Concrete.		1		Total 65 Gallons
		2		
		3		
		4		
		5		
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		45		
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		47		
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		49		
		50		
Water Level Observations: Noted on Rods: _____' At Completion:	Sampling Methods: LBS - Large Bore Sampler MBS - Macro Bore Sampler HSA - Hollow Stem Auger GEO - Geoprobe	Notes: TPV - Total Photoionizable Vapors ND - Not Detected * - Water Sample(s) Retained for Laboratory Analysis		

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MUNDELL & ASSOCIATES, INC.**FIELD BORING LOG****Injection NO: SB-6****CLIENT: AIMCO****PROJECT LOCATION: Indianapolis, Indiana****PROJECT NAME: Michigan Meadows Apartments****PROJECT NO: M01046****DRILLING CONTRACTOR: Midway Services, Inc.****DRILLER: Mark Hicks****BORING LOCATION: Source Area A (Michigan Plaza Family Laundry)****FIELD SCIENTIST: LL/AD/****DATE BEGAN: 2/5/2009 (4:30 PM)****DATE FINISHED: 2/5/2009****DRILLING METHOD: Direct Push****DRILL EQUIP: Geoprobe****GW Depth (OBSERVED):****DEPTH OF BORING: 32ft.****SURFACE ELEVATION: N/A****TOP OF CASING ELEVATION: N/A**

GEOLOGIC DESCRIPTION	STRATUM DEPTH, ft	DEPTH FT	GALLONS INJECTED PER INTERVAL	COMMENTS
Ground surface is Concrete.		1		
		2		
		3		
		4		
		5		
		6		
		7		
		8		
		9		
		10		
		11		
		12		
		13		
		14		
		15		
		16		
		17		
		18		
		19		
		20	10	
		21	15	
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		23		
		24	15	
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		26		
		27	15	
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		29		
		30	10	
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		40		
		41		
		42		
		43		
		44		
		45		
		46		
		47		
		48		
		49		
		50		
Water Level Observations: Noted on Rods: _____' At Completion:	Sampling Methods: LBS - Large Bore Sampler MBS - Macro Bore Sampler HSA - Hollow Stem Auger GEO - Geoprobe	Notes: TPV - Total Photoionizable Vapors ND - Not Detected * - Water Sample(s) Retained for Laboratory Analysis		

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MUNDELL & ASSOCIATES, INC.**FIELD BORING LOG****Injection NO: SB-7****CLIENT: AIMCO****PROJECT LOCATION: Indianapolis, Indiana****PROJECT NAME: Michigan Meadows Apartments****PROJECT NO: M01046****DRILLING CONTRACTOR: Midway Services, Inc.****DRILLER: Mark Hicks****BORING LOCATION: Source Area A (Inside Zacateca's)****FIELD SCIENTIST: LL/AD/****DATE BEGAN: 2/5/2009 (10:05 AM)****DATE FINISHED: 2/5/2009 (11:00 AM)****DRILLING METHOD: Direct Push****DRILL EQUIP: Geoprobe****GW Depth (OBSERVED):****DEPTH OF BORING: 32ft.****SURFACE ELEVATION: N/A****TOP OF CASING ELEVATION: N/A**

GEOLOGIC DESCRIPTION	STRATUM DEPTH, ft	DEPTH FT	GALLONS INJECTED PER INTERVAL	COMMENTS
Ground surface is Vinyl Tile, Concrete.		1		
		2		
		3		
		4		
		5		
		6		
		7		
		8		
		9		
		10		
		11		
		12		
		13		
		14		
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		26	15	
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		29	15	
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		31		
		32	10	
		33		
		34		
		35		
		36		
		37		
		38		
		39		
		40		
		41		
		42		
		43		
		44		
		45		
		46		
		47		
		48		
		49		
		50		
Water Level Observations: Noted on Rods: _____' At Completion:	Sampling Methods: LBS - Large Bore Sampler MBS - Macro Bore Sampler HSA - Hollow Stem Auger GEO - Geoprobe	Notes: TPV - Total Photoionizable Vapors ND - Not Detected * - Water Sample(s) Retained for Laboratory Analysis		

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APPENDIX D

AIR MITIGATION SYSTEMS CONCENTRATION DATA AND REMOVAL CONCENTRATION

Table D1 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/m³)			
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	<.0100	0.3100	0.2100	0.4600	BDL	0.0021	0.0014	0.0031	BDL	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	0.56	0.49	0.1	0.0049	0.0038	0.0033	0.0007	4893.12	3805.76	3330.04	679.60
9/12/2008	0.4800	0.47	0.53	0.13	0.0033	0.0032	0.0036	0.0009	3262.08	3194.12	3601.88	883.48
11/26/2008	0.4600	NS	0.36	0.11	0.0031	NS	0.0024	0.0007	3126.16	NS	2446.56	747.56
12/11/2008	0.4600	NS	0.36	0.11	0.0031	NS	0.0024	0.0007	3126.16	NS	2446.56	747.56
4/1/2009	0.45	NS	0.55	0.005	0.0031	NS	0.0037	0.00003	3058.20	NS	3737.80	33.98
* Numbers in red indicate half the detection limit.												

Table D1 Air Mitigation - 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/m³)			
9/21/2006	0.0240	0.0120	<0.0100	<0.0100	0.0001	0.0001	BDL	BDL	129.24	64.62	BDL	BDL
10/6/2006	0.0120	<0.0100	<0.0100	<0.0100	0.0001	BDL	BDL	BDL	64.62	BDL	BDL	BDL
10/13/2006	<0.0100	<0.0100	<0.0100	<0.0100	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
10/20/2006	<0.0100	<0.0100	<0.0100	<0.0100	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
11/17/2006	<0.0100	<0.0100	<0.0100	<0.0100	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
12/27/2006	<0.0100	<0.0100	<0.0100	<0.0100	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
3/30/2007	<0.0100	<0.0100	<0.0100	<0.0100	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
6/15/2007	0.4600	<0.0100	<0.0100	<0.0100	0.0025	BDL	BDL	BDL	2,477.10	BDL	BDL	BDL
10/16/2007	<0.0100	<0.0100	<0.0100	<0.0100	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
12/14/2007	<0.0100	<0.0100	<0.0100	<0.0100	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
3/27/2008	<0.0100	NS	<0.0100	<0.0100	BDL	NS	BDL	BDL	BDL	BDL	BDL	BDL
4/1/2008	NS	<0.0100	NS	NS	NS	BDL	NS	NS	BDL	BDL	BDL	BDL
6/2/2008	<0.0100	<0.0100	<0.0100	<0.0100	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
9/12/2008	<0.0100	<0.0100	<0.0100	<0.0100	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
11/26/2008	<0.0100	NS	<0.0100	<0.0100	BDL	NS	BDL	BDL	BDL	NS	BDL	BDL
12/11/2008	<0.0100	NS	<0.0100	<0.0100	BDL	NS	BDL	BDL	BDL	NS	BDL	BDL
4/1/2009	<0.0100	NS	<0.0100	<0.0100	BDL	NS	BDL	BDL	BDL	NS	BDL	BDL
* Numbers in red indicate half the detection limit.												

Table D1
Air Mitigation - 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)				(µg/m ³)			
9/21/2006	<1.0000	<1.0000	<1.0000	<1.0000	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
10/6/2006	<1.0000	<1.0000	<1.0000	<1.0000	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
10/13/2006	<1.0000	<1.0000	<1.0000	<1.0000	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
10/20/2006	<1.0000	<1.0000	<1.0000	<1.0000	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
11/17/2006	<1.0000	<1.0000	<1.0000	<1.0000	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
12/27/2006	<1.0000	<1.0000	<1.0000	<1.0000	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
3/30/2007	<1.0000	<1.0000	<1.0000	<1.0000	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
6/15/2007	<1.0000	<1.0000	<1.0000	<1.0000	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
10/16/2007	<1.0000	<1.0000	<1.0000	<1.0000	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
12/14/2007	<1.0000	<1.0000	<1.0000	<1.0000	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
3/27/2008	<1.0000	NS	<1.0000	<1.0000	BDL	NS	BDL	BDL	BDL	NS	BDL	BDL
4/1/2008	NS	<1.0000	NS	NS	NS	BDL	NS	NS	NS	BDL	NS	NS
6/2/2008	<1.0000	<1.0000	<1.0000	<1.0000	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
9/12/2008	<1.0000	<1.0000	<1.0000	<1.0000	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
11/26/2008	<1.0000	NS	<1.0000	<1.0000	BDL	NS	BDL	BDL	BDL	NS	BDL	BDL
12/11/2008	<1.0000	NS	<1.0000	<1.0000	BDL	NS	BDL	BDL	BDL	NS	BDL	BDL
4/1/2009	<1.0000	NS	<1.0000	<1.0000	BDL	NS	BDL	BDL	BDL	NS	BDL	BDL

* Numbers in red indicate half the detection limit.

Table D1 Air Mitigation - 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/m³)			
9/21/2006	0.1400	<0.0200	<0.0200	<0.0200	0.0006	BDL	BDL	BDL	556.22	BDL	BDL	BDL
10/6/2006	0.0300	<0.0200	<0.0200	<0.0200	0.0001	BDL	BDL	BDL	119.19	BDL	BDL	BDL
10/13/2006	<0.0200	<0.0200	<0.0200	<0.0200	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
10/20/2006	<0.0200	<0.0200	<0.0200	<0.0200	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
11/17/2006	<0.0200	<0.0200	<0.0200	<0.0200	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
12/27/2006	0.024	<0.0200	<0.0200	<0.0200	0.0001	BDL	BDL	BDL	95.35	BDL	BDL	BDL
3/30/2007	<0.0200	<0.0200	<0.0200	<0.0200	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
6/15/2007	0.2100	<0.0200	<0.0200	<0.0200	0.0008	BDL	BDL	BDL	834.33	BDL	BDL	BDL
10/16/2007	<0.0200	<0.0200	<0.0200	<0.0200	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
12/14/2007	<0.0200	<0.0200	<0.0200	<0.0200	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
3/27/2008	0.034	NS	<0.0200	<0.0200	0.0001	NS	BDL	BDL	135.08	NS	BDL	BDL
4/1/2008	NS	<0.0200	NS	NS	NS	BDL	NS	NS	NS	BDL	NS	NS
6/2/2008	<0.0200	<0.0200	<0.0200	<0.0200	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
9/12/2008	<0.0200	<0.0200	<0.0200	<0.0200	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
11/26/2008	<0.0200	NS	<0.0200	<0.0200	BDL	NS	BDL	BDL	BDL	NS	BDL	BDL
12/11/2008	<0.0200	NS	<0.0200	<0.0200	BDL	NS	BDL	BDL	BDL	NS	BDL	BDL
4/1/2009	<0.0200	NS	<0.0200	<0.0200	BDL	NS	BDL	BDL	BDL	NS	BDL	BDL
* Numbers in red indicate half the detection limit.												

Table D2 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)			(µg/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		0.0390	0.0004	0.0000	0.0003	394.17	0.00	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
12/11/2008	0.0720	0.1100	0.0560	0.0005	0.0007	0.0004	489.31	747.56	380.58
4/1/2009	0.21	0.13	0.059	0.0014	0.0009	0.0004	1427.16	883.48	400.96

Table D2 Air Mitigation - 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)			(µg/m ³)		
3/27/2008	< 0.0100	< 0.0100	NS	BDL	BDL	NS	BDL	BDL	NS
3/27/2008	< 0.0100	< 0.0100	NS	BDL	BDL	NS	BDL	BDL	NS
4/7/2008	NS	NS	< 0.0100	NS	NS	BDL	NS	NS	BDL
4/8/2008	NS	NS	< 0.0100	NS	NS	BDL	NS	NS	BDL
4/24/2008	< 0.0100	< 0.0100	< 0.0100	BDL	BDL	BDL	BDL	BDL	BDL
5/1/2008	< 0.0100	< 0.0100	< 0.0100	BDL	BDL	BDL	BDL	BDL	BDL
6/2/2008	< 0.0100	< 0.0100	< 0.0100	BDL	BDL	BDL	BDL	BDL	BDL
7/10/2008	< 0.0100	NS	< 0.0100	BDL	NS	BDL	BDL	NS	BDL
8/20/2008	NS	<0.0100	NS	NS	BDL	NS	NS	BDL	NS
9/12/2008	<0.0100	<0.0100	<0.0100	BDL	BDL	BDL	BDL	BDL	BDL
11/26/2008	<0.0100	<0.0100	<0.0100	BDL	BDL	BDL	BDL	BDL	BDL
12/11/2008	<0.0100	<0.0100	<0.0100	BDL	BDL	BDL	BDL	BDL	BDL
4/1/2009	<0.0100	<0.0100	<0.0100	BDL	BDL	BDL	BDL	BDL	BDL

Table D2 Air Mitigation - 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)			(µg/m ³)		
3/27/2008	<1.0000	<1.0000	NS	BDL	BDL	NS	BDL	BDL	NS
3/27/2008	<1.0000	<1.0000	NS	BDL	BDL	NS	BDL	BDL	NS
4/7/2008	NS	NS	<1.0000	NS	NS	BDL	NS	NS	BDL
4/8/2008	NS	NS	<1.0000	NS	NS	BDL	NS	NS	BDL
4/24/2008	<1.0000	<1.0000	<1.0000	BDL	BDL	BDL	BDL	BDL	BDL
5/1/2008	<1.0000	<1.0000	<1.0000	BDL	BDL	BDL	BDL	BDL	BDL
6/2/2008	<1.0000	<1.0000	<1.0000	BDL	BDL	BDL	BDL	BDL	BDL
7/10/2008	<1.0000	NS	<1.0000	BDL	NS	BDL	BDL	NS	BDL
8/20/2008	NS	<1.0000	NS	NS	BDL	NS	NS	BDL	NS
9/12/2008	<1.0000	<1.0000	<1.0000	BDL	BDL	BDL	BDL	BDL	BDL
11/26/2008	<1.0000	<1.0000	<1.0000	BDL	BDL	BDL	BDL	BDL	BDL
12/11/2008	<1.0000	<1.0000	<1.0000	BDL	BDL	BDL	BDL	BDL	BDL
4/1/2009	<1.0000	<1.0000	<1.0000	BDL	BDL	BDL	BDL	BDL	BDL

Table D2 Air Mitigation - 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)			(µg/m ³)		
3/27/2008	<0.0200	<0.0200	NS	BDL	BDL	NS	BDL	BDL	NS
3/28/2008	<0.0200	<0.0200	NS	BDL	BDL	NS	BDL	BDL	NS
4/7/2008	NS	NS	<0.0200	NS	NS	BDL	NS	NS	BDL
4/8/2008	NS	NS	<0.0200	NS	NS	BDL	NS	NS	BDL
4/24/2008	<0.0200	<0.0200	<0.0200	BDL	BDL	BDL	BDL	BDL	BDL
5/1/2008	<0.0200	<0.0200	<0.0200	BDL	BDL	BDL	BDL	BDL	BDL
6/2/2008	<0.0200	<0.0200	<0.0200	BDL	BDL	BDL	BDL	BDL	BDL
7/10/2008	<0.0200	NS	<0.0200	BDL	NS	BDL	BDL	NS	BDL
8/20/2008	NS	<0.0200	NS	NS	BDL	NS	NS	BDL	NS
9/12/2008	<0.0200	<0.0200	<0.0200	BDL	BDL	BDL	BDL	BDL	BDL
11/26/2008	<0.0200	<0.0200	<0.0200	BDL	BDL	BDL	BDL	BDL	BDL
12/11/2008	<0.0200	<0.0200	<0.0200	BDL	BDL	BDL	BDL	BDL	BDL
4/1/2009	<0.0200	<0.0200	<0.0200	BDL	BDL	BDL	BDL	BDL	BDL

Table D3 Concentration Averages First Quarter 2009 04/01/09 Michigan Plaza 3801-3823 West Michigan Street Indianapolis, Indiana MUNDELL Project No. M01046																																
Sample Date	PCE								TCE								VC								cis-1,2-DCE							
	B-1		B-2		B-3		B-4		B-1		B-2		B-3		B-4		B-1		B-2		B-3		B-4		B-1		B-2		B-3		B-4	
	(µg/m³)								(µg/m³)								(µg/m³)								(µg/m³)							
9/21/2006	4,281.48	4,281.48	5,368.84	5,368.84	4,553.32	4,553.32	1,902.88	1,902.88	129.24	129.24	64.62	64.62	27.00	27.00	27.00	27.00	1,280	1,280	1,280	1,280	1,280	1,280	1,280	1,280	556.22	556.22	40	40	40	40	40	40
10/6/2006	5,980.48	5,130.98	4,553.32	4,961.08	6,592.12	5,572.72	2,106.76	2,004.82	64.62	96.93	27.00	45.81	27.00	27.00	27.00	27.00	1,280	1,280	1,280	1,280	1,280	1,280	1,280	1,280	119.19	337.71	40	40	40	40	40	40
10/13/2006	4,621.28	5,300.88	2,446.56	3,499.94	3,533.92	5,063.02	1,427.16	1,766.96	27.00	45.81	27.00	27.00	27.00	27.00	27.00	27.00	1,280	1,280	1,280	1,280	1,280	1,280	1,280	1,280	40	79.60	40	40	40	40	40	40
10/20/2006	5,912.52	5,266.90	3,737.80	3,092.18	6,048.44	4,791.18	1,495.12	1,461.14	27.00	27.00	27.00	27.00	27.00	27.00	27.00	27.00	1,280	1,280	1,280	1,280	1,280	1,280	1,280	1,280	40	40.00	40	40	40	40	40	40
11/17/2006	5,504.76	5,708.64	3,194.12	3,465.96	5,300.88	5,674.66	1,019.40	1,257.26	27.00	27.00	27.00	27.00	27.00	27.00	27.00	27.00	1,280	1,280	1,280	1,280	1,280	1,280	1,280	1,280	40	40.00	40	40	40	40	40	40
12/27/2006	5,029.04	5,266.90	3,194.12	3,194.12	5,097.00	5,198.94	747.56	883.48	27.00	27.00	27.00	27.00	27.00	27.00	27.00	27.00	1,280	1,280	1,280	1,280	1,280	1,280	1,280	1,280	95.35	67.68	40	40	40	40	40	40
3/30/2007	3,465.96	4,247.50	1,223.28	2,208.70	3,873.72	4,485.36	210.68	479.12	27.00	27.00	27.00	27.00	27.00	27.00	27.00	27.00	1,280	1,280	1,280	1,280	1,280	1,280	1,280	1,280	40	67.68	40	40	40	40	40	40
6/15/2007	34.00	1,749.98	2,106.76	1,665.02	1,427.16	2,650.44	3,126.16	1,668.42	2,477.10	1,252.05	27.00	27.00	27.00	27.00	27.00	27.00	1,280	1,280	1,280	1,280	1,280	1,280	1,280	1,280	834.33	437.17	40	40	40	40	40	40
10/16/2007	2,650.44	1,342.22	1,631.04	1,868.90	1,902.88	1,665.02	455.33	1,790.75	27.00	1,252.05	27.00	27.00	27.00	27.00	27.00	27.00	1,280	1,280	1,280	1,280	1,280	1,280	1,280	1,280	40	437.17	40	40	40	40	40	40
12/14/2007	3,941.68	3,296.06	2,310.64	1,970.84	3,533.92	2,718.40	951.44	703.39	27.00	27.00	27.00	27.00	27.00	27.00	27.00	27.00	1,280	1,280	1,280	1,280	1,280	1,280	1,280	1,280	40	40.00	40	40	40	40	40	40
3/27/2008	3,737.80	3,839.74	NS	NS	3,805.76	3,669.84	502.90	727.17	27.00	27.00	NS	NS	27.00	27.00	27.00	27.00	1,280	1,280	NS	NS	1,280	1,280	1,280	1,280	135.08	87.54	NS	NS	40	40	40	40
4/1/2008	NS	NS	2,446.56	2,378.60	NS	NS	NS	NS	NS	NS	27.00	27.00	NS	NS	NS	NS	NS	NS	1,280	1,280	NS	NS	NS	NS	NS	NS	40	40	NS	NS	NS	NS
6/2/2008	4,893.12	4,315.46	3,805.76	3,126.16	3,330.04	3,567.90	679.60	591.25	27.00	27.00	27.00	27.00	27.00	27.00	27.00	27.00	1,280	1,280	1,280	1,280	1,280	1,280	1,280	1,280	40	87.54	40	40	40	40	40	40
9/12/2008	3262.08	4,077.60	3,194.12	3,499.94	3,601.88	3,465.96	883.48	781.54	27.00	27.00	27.00	27.00	27.00	27.00	27.00	27.00	1,280	1,280	1,280	1,280	1,280	1,280	1,280	1,280	40	40.00	40	40	40	40	40	40
11/26/2008	3126.16	3,194.12	NS	NS	2,446.56	3,024.22	747.56	815.52	27.00	27.00	NS	NS	27.00	27.00	27.00	27.00	1,280	1,280	NS	NS	1,280	1,280	1,280	1,280	40	40.00	NS	NS	40	40	40	40
4/1/2009	3058.20	3,092.18	NS	NS	3,737.80	3,092.18	373.80	560.68	27.00	27.00	NS	NS	27.00	27.00	27.00	27.00	1,280	1,280	NS	NS	1,280	1,280	1,280	1,280	40	40.00	NS	NS	40	40	40	40
												**The detection limit for Vinyl Chloride is fairly high compared to the others. Using 1/2 the detections limit as the assumed concentration will significantly raise the "total pollutants removed" calculation. -DJP **																				

Sample Date	PCE						TCE						VC						cis-1,2-DCE					
	B-5		B-6		B-7		B-5		B-6		B-7		B-5		B-6		B-7		B-5		B-6		B-7	
	(µg/m³)						(µg/m³)						(µg/m³)						(µg/m³)					
3/27/2008	883.48	883.48	8155.20	8155.20	NS	NS	27.00	27.00	27.00	27.00	NS	NS	1280.00	1280.00	1280.00	1280.00	NS	NS	40.00	40.00	40.00	40.00	NS	NS
3/28/2008	496.11	689.79	3330.04	5742.62	NS	NS	27.00	27.00	27.00	27.00	NS	NS	1280.00	1280.00	1280.00	1280.00	NS	NS	40.00	40.00	40.00	40.00	NS	NS
4/7/2008	NS	NS	NS	NS	516.50	516.50	NS	NS	NS	NS	27.00	27.00	NS	NS	NS	NS	1280.00	1280.00	NS	NS	NS	NS	40.00	40.00
4/8/2008	NS	NS	NS	NS	319.41	417.95	NS	NS	NS	NS	27.00	27.00	NS	NS	NS	NS	1280.00	1280.00	NS	NS	NS	NS	40.00	40.00
4/24/2008	366.98	431.55	747.56	2038.80	149.51	234.46	27.00	27.00	27.00	27.00	27.00	27.00	1280.00	1280.00	1280.00	1280.00	1280.00	1280.00	40.00	40.00	40.00	40.00	40.00	40.00
5/1/2008	394.17	380.58	1427.16	1087.36	265.04	207.28	27.00	27.00	27.00	27.00	27.00	27.00	1280.00	1280.00	1280.00	1280.00	1280.00	1280.00	40.00	40.00	40.00	40.00	40.00	40.00
6/2/2008	400.96	397.57	1495.12	1461.14	360.19	312.62	27.00	27.00	27.00	27.00	27.00	27.00	1280.00	1280.00	1280.00	1280.00	1280.00	1280.00	40.00	40.00	40.00	40.00	40.00	40.00
9/12/2008	468.92	434.94	1223.28	1359.20	366.98	363.59	27.00	27.00	27.00	27.00	27.00	27.00	1280.00	1280.00	1280.00	1280.00	1280.00	1280.00	40.00	40.00	40.00	40.00	40.00	40.00
11/26/2008	489.31	479.12	747.56	985.42	380.58	373.78	27.00	27.00	27.00	27.00	27.00	27.00	1280.00	1280.00	1280.00	1280.00	1280.00	1280.00	40.00	40.00	40.00	40.00	40.00	40.00
4/1/2009	1427.16	958.24	883.48	815.52	400.96	390.77	27.00	27.00	27.00	27.00	27.00	27.00	1280.00	1280.00	1280.00	1280.00	1280.00	1280.00	40.00	40.00	40.00	40.00	40.00	40.00

Table D4
Total Pounds Removed
First Quarter 2009
04/01/09
Michigan Plaza
3801-3823 West Michigan Street
Indianapolis, Indiana
MUNDELL Project No. M01046

TOTAL Lbs. REMOVED

	<u>PID Data</u>	<u>Lab Data</u>				
	PCE	PCE	TCE	VC	cis-1,2-DCE	TOTALS
B-1	13.4	20.6	1.8	7.7	0.87	31.0
B-2	6.5	6.9	0.08	3.6	0.11	10.7
B-3	Lbs. VOCs Removed	25.2	0.30	14.0	0.44	40.0
B-4	Lbs. VOCs Removed	7.7	0.29	13.7	0.43	22.2
B-5	0.0	2.93	0.11	4.98	0.16	8.2
B-6	0.4	3.4	0.10	4.92	0.15	8.5
B-7	0.0	1.32	0.10	4.56	0.14	6.1
TOTALS:	20.2	68.1	2.7	53.5	2.3	126.7

Table D5 Lab Data for Air Mitigation System B-1 First Quarter 2009 04/01/09 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	1,280	0.00	556	0.00	0.00	0.00	0.00
10/6/2006	360	73	1,576,800	5,131	0.50	97	0.01	1,280	0.13	338	0.03	0.67	0.51	0.67
10/13/2006	168	73	735,840	5,301	0.24	46	0.00	1,280	0.06	80	0.00	0.31	0.75	0.98200531
10/20/2006	168	73	735,840	5,267	0.24	27	0.00	1,280	0.06	40	0.00	0.30	0.990333	1.28558899
11/17/2006	672	73	2,943,360	5,709	1.05	27	0.00	1,280	0.24	40	0.01	1.30	2.0384589	2.58102866
12/27/2006	960	73	4,204,800	5,267	1.38	27	0.01	1,280	0.34	68	0.02	1.74	3.4199173	4.32305167
3/30/2007	2,232	73	9,776,160	4,248	2.59	27	0.02	1,280	0.78	68	0.04	3.43	6.0101518	7.75159888
6/15/2007	1,848	73	8,094,240	1,750	0.88	1,252	0.63	1,280	0.65	437	0.22	2.38	6.8937331	10.1343649
10/16/2007	2,952	73	12,929,760	1,342	1.08	1,252	1.01	1,280	1.03	437	0.35	3.48	7.9762921	13.6117253
12/14/2007	1,416	73	6,202,080	3,296	1.28	27	0.01	1,280	0.50	40	0.02	1.80	9.2514674	15.408026
3/27/2008	2,496	73	10,932,480	3,840	2.62	27	0.02	1,280	0.87	88	0.06	3.57	11.869999	18.9775732
6/2/2008	1,608	73	7,043,040	4,315	1.90	27	0.01	1,280	0.56	88	0.04	2.51	13.76594	21.4861866
9/12/2008	2,448	73	10,722,240	4,078	2.73	27	0.02	1,280	0.86	40	0.03	3.63	16.493206	25.1143817
11/26/2008	1,800	73	7,884,000	3,194	1.57	27	0.01	1,280	0.63	40	0.02	2.23	18.063999	27.3476223
12/11/2008	360	73	1,576,800	3,126	0.31	27	0.00	1,280	0.13	40	0.00	0.44	18.371485	27.7875978
4/1/2009	2664	73	11668320	3058.2	2.225931	27	0.019652	1280	0.93166	40	0.0291143	3.206353	20.597415	30.9939509
TOTALS:	14,881		83,782,830		20.60		1.78		7.75		0.87	30.99		

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)	
9/21/2006	0.5	73	2,190	4.9	10,439	0.00	0	
9/28/2006	168	73	735,840	1.9	4,841	0.22	0.2237	
10/6/2006	192	73	840,960	1.0	3,162	0.17	0.38952311	
10/13/2006	168	73	735,840	0.6	2,322	0.11	0.496118669	
10/20/2006	168	73	735,840	0.3	1,902	0.09	0.583442753	
11/17/2006	672	73	2,943,360	0.1	1,483	0.27	0.855653192	
12/27/2006	960	73	4,204,800	0.0	1,296	0.34	1.195581819	
6/15/2007	4,080	73	17,870,400	0.1	1,483	1.65	2.848288055	
10/16/2007	2,952	73	12,929,760	0.1	1,483	1.20	4.044069625	
12/14/2007	1,416	73	6,202,080	0.1	1,483	0.57	4.617655906	
3/27/2008	2,496	73	10,932,480	1.7	4,468	3.05	7.664769832	
6/2/2008	1,608	73	7,043,040	2.2	5,401	2.37	10.03771558	
9/12/2008	2,448	73	10,722,240	0.3	1,856	1.24	11.27895081	
11/26/2008	1,800	73	7,884,000	0.1	1,483	0.73	12.00808591	
12/11/2008	360	73	1,576,800	0.1	1482.6	0.15	12.15391293	
4/1/2009	2664	73	11668320	0.2	1669.2	1.214938	13.36885089	
TOTALS:	14,881		97,027,950			13.37		

Table D6 Lab Data for Air Mitigation System B-2 First Quarter 2009 04/01/09 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	1,280	0.00	40	0.00	0.00	0.000371741	0.000467613
10/6/2006	360	37	799,200	4,961	0.25	46	0.00	1,280	0.06	40	0.00	0.32	0.247697359	0.315883203
10/13/2006	168	37	372,960	3,500	0.08	27	0.00	1,280	0.03	40	0.00	0.11	0.329122824	0.428646378
10/20/2006	168	37	372,960	3,092	0.07	27	0.00	1,280	0.03	40	0.00	0.10	0.401061828	0.531923091
11/17/2006	672	37	1,491,840	3,466	0.32	27	0.00	1,280	0.12	40	0.00	0.45	0.723601537	0.979813638
12/27/2006	960	37	2,131,200	3,194	0.42	27	0.00	1,280	0.17	40	0.01	0.60	1.148233647	1.583518373
3/30/2007	2,232	38	5,088,960	2,209	0.70	27	0.01	1,280	0.41	40	0.01	1.13	1.849371097	2.712252211
6/15/2007	1,848	42	4,656,960	1,665	0.48	27	0.01	1,280	0.37	40	0.01	0.87	2.333052465	3.587231464
10/16/2007	2,952	48	8,501,760	1,869	0.99	27	0.01	1,280	0.68	40	0.02	1.71	3.324186298	5.292719875
12/14/2007	1,416	53	4,502,880	1,971	0.55	27	0.01	1,280	0.36	40	0.01	0.93	3.8777647	6.224649694
4/1/2008	2,616	50	7,848,000	2,379	1.16	27	0.01	1,280	0.63	40	0.02	1.82	5.042206548	8.048514384
6/2/2008	1,488	42	3,705,120	3,126	0.72	27	0.01	1,280	0.30	40	0.01	1.03	5.764728217	9.082356231
9/12/2008	2,448	37	5,434,560	3,450	1.17	27	0.01	1,280	0.43	40	0.01	1.63	6.934283834	10.70854704
11/26/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
12/11/2008	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4/1/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
TOTALS:	14,881		44,907,510		6.93		0.08		3.59		0.11	10.71		

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)
9/21/2006	0.5	37	1,110	2.0	5,028	0.00	0.000348141
9/28/2006	168	37	372,960	2.0	5,028	0.12	0.117323644
10/6/2006	192	37	426,240	1.1	3,255	0.09	0.203876742
10/13/2006	168	37	372,960	0.6	2,369	0.06	0.258989932
10/20/2006	168	37	372,960	0.3	1,926	0.04	0.303792736
11/17/2006	672	37	1,491,840	0.1	1,483	0.14	0.441762411
12/27/2006	960	37	2,131,200	0.1	1,483	0.20	0.638861946
6/15/2007	4,080	41	10,036,800	0.1	1,483	0.93	1.567094215
10/16/2007	2,952	48	8,501,760	0.1	1,483	0.79	2.353361548
12/14/2007	1,416	53	4,502,880	0.1	1,483	0.42	2.769800904
6/2/2008	4,104	46.5	11,450,160	1.5	4,095	2.92	5.694645915
9/12/2008	2,448	37	5,434,560	0.5	2,229	0.76	6.450280544
11/26/2008	NS	NS	NS	NS	NS	NS	NS
12/11/2008	NS	NS	NS	NS	NS	NS	NS
4/1/2009	NS	NS	NS	NS	NS	NS	NS
TOTALS:	14,881		45,095,430			6.45	

Table D7																							
Lab Data for Air Mitigation System B-3																							
First Quarter 2009																							
04/01/09																							
Michigan Plaza																							
3801-3823 West Michigan Street																							
Indianapolis, Indiana																							
MUNDELL Project No. M01046																							
B-3 (Lab Data)																B-3 (PID Readings)							
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		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)
9/21/2006	0.5	132	3,960	4,553	0.00	27	0.00	1,280	0.00	40	0.00	0.00	0.0011248	0.0014575		9/21/2006	0.5	132	3,960	1.8	4,655	0.00	0.0011498
10/6/2006	360	132	2,851,200	5,573	0.99	27	0.00	1,280	0.23	40	0.01	1.23	0.9922586	1.2321615		9/28/2006	168	132	1,330,560	2.2	5,401	0.45	0.449443
10/13/2006	168	132	1,330,560	5,063	0.42	27	0.00	1,280	0.11	40	0.00	0.53	1.4124832	1.7641855		10/6/2006	192	132	1,520,640	2.1	5,215	0.49	0.944078
10/20/2006	168	132	1,330,560	4,791	0.40	27	0.00	1,280	0.11	40	0.00	0.51	1.8101455	2.2736471		10/13/2006	168	132	1,330,560	2.1	5,121	0.43	1.3691398
11/17/2006	672	132	5,322,240	5,675	1.88	27	0.01	1,280	0.42	40	0.01	2.33	3.6941055	4.6048048		10/20/2006	168	132	1,330,560	2.0	5,075	0.42	1.7903297
12/27/2006	960	132	7,603,200	5,199	2.47	27	0.01	1,280	0.61	40	0.02	3.10	6.1598531	7.7094061		11/17/2006	672	132	5,322,240	2.0	5,028	1.67	3.4596017
3/30/2007	2,232	132	17,677,440	4,485	4.95	27	0.03	1,280	1.41	40	0.04	6.43	11.105853	14.14074		12/27/2006	960	132	7,603,200	0.1	1,483	0.70	4.1627676
6/15/2007	1,848	132	14,636,160	2,650	2.42	27	0.02	1,280	1.17	40	0.04	3.65	13.52567	17.790351		6/15/2007	4,080	132	32,313,600	0.1	1,483	2.99	7.1512227
10/16/2007	2,952	132	23,379,840	1,665	2.43	27	0.04	1,280	1.87	40	0.06	4.39	15.953948	22.183104		10/16/2007	2,952	132	23,379,840	0.1	1,483	2.16	9.3134579
12/14/2007	1,416	132	11,214,720	2,718	1.90	27	0.02	1,280	0.90	40	0.03	2.84	17.855635	25.027101		12/14/2007	1,416	132	11,214,720	0.1	1,483	1.04	10.350628
3/27/2008	2,496	132	19,768,320	3,670	4.53	27	0.03	1,280	1.58	40	0.05	6.19	22.381007	31.213492		3/27/2008	2,496	132	19,768,320	1.3	3,722	4.59	14.940073
6/2/2008	1,608	132	12,735,360	3,568	2.83	27	0.02	1,280	1.02	40	0.03	3.90	25.215408	35.117973		6/2/2008	1,608	132	12,735,360	1.2	3,535	2.81	17.748496
9/12/2008	2,448	132	19,388,160	3,466	4.19	27	0.03	1,280	1.55	40	0.05	5.82	29.407228	40.938869		9/12/2008	2,448	132	19,388,160	0.5	2,229	2.70	20.444274
11/26/2008	1,800	132	14,256,000	3,024	2.69	27	0.02	1,280	1.14	40	0.04	3.89	32.096389	44.825881		11/26/2008	1,800	132	14,256,000	0.4	2,042	1.82	22.260525
12/11/2008	360	132	2,851,200	2446.6	0.44	27	0.00	1280	0.23	40	0.01	0.67	32.531521	45.500584		12/11/2008	360	132	2,851,200	0.8	2788.8	0.50	22.756526
4/1/2009	2664	132	21098880	3737.8	4.9194082	27	0.03553535	1280	1.68463868	40	0.052644959	6.692227154	37.45092907	52.19281067		4/1/2009	2664	132	21098880	0.6	2415.6	3.17922906	25.93575501
TOTALS:	14,881		117,853,560		25.22		0.30		14.01		0.44	35.12				TOTALS:	14,881		151,497,720			22.76	

Table D8																								
Lab Data for Air Mitigation System B-4																								
First Quarter 2009																								
04/01/09																								
Michigan Plaza																								
3801-3823 West Michigan Street																								
Indianapolis, Indiana																								
MUNDELL Project No. M01046																								
B-4 (Lab Data)																B-4 (PID Readings)								
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		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)	
9/21/2006	0.5	132	3,960	1,903	0.00	27	0.00	1,280	0.00	40	0.00	0.00	0.00047	0.0008028			9/21/2006	0.5	132	3,960	0.2	1,669	0.00	0.000412
10/6/2006	360	132	2,851,200	2,005	0.36	27	0.00	1,280	0.23	40	0.01	0.60	0.3570365	0.5969394			9/28/2006	168	132	1,330,560	0.4	2,042	0.17	0.169929
10/13/2006	168	132	1,330,560	1,767	0.15	27	0.00	1,280	0.11	40	0.00	0.26	0.5036921	0.8553943			10/6/2006	192	132	1,520,640	0.3	1,763	0.17	0.337112
10/20/2006	168	132	1,330,560	1,461	0.12	27	0.00	1,280	0.11	40	0.00	0.23	0.6249649	1.0884666			10/13/2006	168	132	1,330,560	0.2	1,623	0.13	0.471782
11/17/2006	672	132	5,322,240	1,257	0.42	27	0.01	1,280	0.42	40	0.01	0.86	1.0423693	1.9530685			10/20/2006	168	132	1,330,560	0.1	1,553	0.13	0.600644
12/27/2006	960	132	7,603,200	883	0.42	27	0.01	1,280	0.61	40	0.02	1.06	1.4613852	3.0109381			11/17/2006	672	132	5,322,240	0.1	1,483	0.49	1.09286
3/30/2007	2,232	130	17,342,640	479	0.52	27	0.03	1,280	1.38	40	0.04	1.98	1.9797018	4.9864582			12/27/2006	960	132	7,603,200	0.1	1,483	0.70	1.796026
6/15/2007	1,848	125	13,887,720	1,668	1.45	27	0.02	1,280	1.11	40	0.03	2.61	3.4250524	7.598715			6/15/2007	4,080	127.75	31,273,200	0.1	1,483	2.89	4.688262
10/16/2007	2,952	128	22,627,080	1,791	2.53	27	0.04	1,280	1.81	40	0.06	4.43	5.9526032	12.027491			10/16/2007	2,952	128	22,671,360	0.1	1,483	2.10	6.784975
12/14/2007	1,416	132	11,214,720	703	0.49	27	0.02	1,280	0.90	40	0.03	1.43	6.4446649	13.461862			12/14/2007	1,416	132	11,214,720	0.1	1,483	1.04	7.822145
3/27/2008	2,496	128	19,094,400	727	0.87	27	0.03	1,280	1.52	40	0.05	2.47	7.3107899	15.932381			3/29/2008	2,544	128	19,537,920	1.8	4,655	5.67	13.4952
6/2/2008	1,608	119	11,481,120	591	0.42	27	0.02	1,280	0.92	40	0.03	1.39	7.7342322	17.320516			6/2/2008	1,560	119	11,138,400	0.3	1,856	1.29	14.78461
9/12/2008	2,448	132	19,388,160	782	0.95	27	0.03	1,280	1.55	40	0.05	2.57	8.6799918	19.895353			9/12/2008	2,448	132	19,388,160	0.4	2,042	2.47	17.25471
11/26/2008	1,800	132	14,256,000	816	0.73	27	0.02	1,280	1.14	40	0.04	1.92	9.4056385	21.81885			11/26/2008	1,800	132	14,256,000	0.1	1,483	1.32	18.57314
12/11/2008	360	132	2,851,200	747.56	0.13	27	0.00	1280	0.23	40	0.01	0.37	9.538595496	22.19137713			12/11/2008	360	132	2,851,200	0.1	1482.6	0.26	18.83683
4/1/2009	2664	132	21098880	373.8	0.49197	27	0.03554	1280	1.684639	40	0.052645	2.264786	10.030563	24.456163			4/1/2009	2664	132	21098880	0.25	1762.5	2.319668	21.1565
TOTALS:	14,881		114,089,400		7.73		0.29		13.71		0.43	24.46					TOTALS:	14,881		171,871,560			21.16	

Table D9 Lab Data for Air Mitigation System B-5 First Quarter 2009 04/01/09 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	1,280	0.00	40	0.00	0.00	0.0002149	0.00054263
3/28/2008	24	127	182,880	690	0.01	27	0.00	1,280	0.01	40	0.00	0.02	0.008084	0.02377806
4/24/2008	648	120	4,665,600	432	0.13	27	0.01	1,280	0.37	40	0.01	0.52	0.1336789	0.54139681
5/1/2008	168	115	1,159,200	381	0.03	27	0.00	1,280	0.09	40	0.00	0.12	0.1611982	0.66631708
6/2/2008	768	114	5,253,120	398	0.13	27	0.01	1,280	0.42	40	0.01	0.57	0.291474	1.23798276
7/10/2008	912	115	6,292,800	442	0.17	27	0.01	1,280	0.50	40	0.02	0.70	0.4648736	1.94013057
9/12/2008	1,536	114	10,506,240	435	0.29	27	0.02	1,280	0.84	40	0.03	1.17	0.7499584	3.10799495
11/26/2008	1,800	113	12,204,000	479	0.36	27	0.02	1,280	0.97	40	0.03	1.39	1.1146074	4.49807679
12/11/2008	360	122	2,635,200	489.312	0.08	27	0.00	1280	0.21	40	0.01	0.30	1.1950409	4.79993115
4/1/2009	2664	122	19500480	1427.16	1.73602	27	0.03284	1280	1.55701	40	0.048657	3.374537	2.9310635	8.17446822
TOTALS:	2,521		40,267,740		2.93		0.11		4.98		0.16	8.17		

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	119	357,000	0.1	1,483	0.03	0.033016
3/31/2008	48	118	339,840	0.2	1,669	0.04	0.068401
5/1/2008	744	116	5,178,240	0.1	1,483	0.48	0.5473
6/2/2008	768	114	5,253,120	0.2	1,669	0.55	1.09427
9/12/2008	2,448	114	16,744,320	0.1	1,483	1.55	2.642833
11/26/2008	1,800	113	12,204,000	0.1	1,483	1.13	3.771494
12/11/2008	360	122	2,635,200	0.1	1482.6	0.24	4.015205
4/1/2009	2664	122	19500480	0.1	1482.6	1.80346	5.818666
TOTALS:	32,235		305,156,400			5.82	

Table D10														
Lab Data for Air Mitigation System B-6														
First Quarter 2009														
04/01/09														
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	1,280	0.00	40	0.00	0.00	0.001983977	0.002311672
3/28/2008	24	119	171,144	5,743	0.06	27	0.00	1,280	0.01	40	0.00	0.08	0.063290848	0.077998801
4/24/2008	648	114	4,426,488	2,039	0.56	27	0.01	1,280	0.35	40	0.01	0.93	0.626242778	1.012883362
5/1/2008	168	123	1,234,800	1,087	0.08	27	0.00	1,280	0.10	40	0.00	0.19	0.709997128	1.200390939
6/2/2008	768	120	5,506,560	1,461	0.50	27	0.01	1,280	0.44	40	0.01	0.96	1.211888352	2.164967107
9/12/2008	2,448	114	16,744,320	1,359	1.42	27	0.03	1,280	1.34	40	0.04	2.83	2.631352305	4.991361114
11/26/2008	1,800	112	12,096,000	985	0.74	27	0.02	1,280	0.97	40	0.03	1.76	3.374568911	6.750935861
12/11/2008	360	118	2,548,800	747.56	0.12	27	0.00	1280	0.20	40	0.01	0.33	3.493424391	7.083952521
4/1/2009	2664	118	18861120	883.48	1.03945	27	0.03177	1280	1.50596	40	0.047061	2.624238	4.532869588	9.708190447
TOTALS:	1,609		40,183,212		3.37		0.10		4.92		0.15	9.71		

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	110	330,000	1.7	4,468	0.09	0.091978
3/31/2008	48	111	319,680	0.1	1,483	0.03	0.121543
5/1/2008	744	118	5,267,520	0.3	1,856	0.61	0.731325
6/2/2008	768	120	5,529,600	1.1	3,349	1.16	1.886358
9/12/2008	2,448	114	16,744,320	0.1	1,483	1.55	3.434921
11/26/2008	1,800	114	12,312,000	0.2	1,669	1.28	4.716881
12/11/2008	360	118	2,548,800	0.4	2042.4	0.32	5.041605
4/1/2009	2664	118	18861120	0.3	1855.8	2.183414	7.225018
TOTALS:	42,727		378,815,400			7.23	

Table D11 Lab Data for Air Mitigation System B-7 First Quarter 2009 04/01/09 Michigan Plaza 3801-3823 West Michigan Street Indianapolis, Indiana MUNDELL Project No. M01046														
B-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		0	516	0.00	27	0.00	1,280	0.00	40	0.00	0.00	0	0
4/8/2008	24		0	418	0.00	27	0.00	1,280	0.00	40	0.00	0.00	0	0
4/24/2008	384		0	234	0.00	27	0.00	1,280	0.00	40	0.00	0.00	0	0
5/1/2008	168	120	1,209,600	207	0.02	27	0.00	1,280	0.10	40	0.00	0.12	0.015639843	0.1172757
6/2/2008	768	117	5,391,360	313	0.11	27	0.01	1,280	0.43	40	0.01	0.56	0.120774749	0.6754159
7/10/2008	912	118	6,456,960	367	0.15	27	0.01	1,280	0.52	40	0.02	0.69	0.268586134	1.3657689
9/12/2008	1,536	114	10,506,240	364	0.24	27	0.02	1,280	0.84	40	0.03	1.12	0.507139802	2.4871023
11/26/2008	1,800	112	12,096,000	374	0.28	27	0.02	1,280	0.97	40	0.03	1.30	0.789335752	3.7856563
12/11/2008	360	118	2,548,800	380.576	0.06	27	0.00	1280	0.20	40	0.01	0.27	0.849843996	4.0603258
4/1/2009	2664	118	18861120	400.96	0.47174	27	0.031766	1280	1.505965	40	0.047061	2.056536	1.321587495	6.116862
TOTALS:	2,257		35,660,160		1.32		0.10		4.56		0.14	6.12		

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)
5/1/2008	576	120	4,147,200	0.1	1,483	0.38	0.383545041
6/2/2008	768	117	5,391,360	0.3	1,856	0.62	1.007663315
9/12/2008	2,448	114	16,744,320	0.1	1,483	1.55	2.556226417
11/26/2008	1,800	112	12,096,000	0.2	1,669	1.26	3.815695614
12/11/2008	360	118	2,548,800	0.4	2042.4	0.32	4.140419291
4/1/2009	2664	118	18861120	0.3	1855.8	2.1834138	6.323833061
TOTALS:	52,953		450,267,000			6.32	

APPENDIX E

PHOTOGRAPHIC DOCUMENTATION



1) CAP-18ME Drums Delivery to the Site



2) Putting the Product Drums in the 3817 (then Vacant) Space



3) Product Drum Staging Area (3817 Space)



4) Mexican Store Back Door – Door & Trim taken off to enable Rig Entry



5) Boring/CAP-18 Injection Location - Passageway Southside(Inside) the Mexican Store



6) Drilling & Injection - Mexican St (Upgradient of possible Drycleaning Equipment Location)



7) Drilling & Injection - Mexican Store (Dining Area)



8) Exhaust from the Drill Rig Operations - Mexican Store



9) Injection - Mexican St (Downgradient of possible Drycleaning Equipment Location)



10) Directing Exhaust from the Drill Rig Operations - Mexican Store



11) Shelving Covered with Plastic by GenNx



12) Drilling/Injection Location as you enter the Mexican Store



13) Sierra Mobile Lab - Trailer Interior



14) Sierra Mobile Lab - Trailer Interior



15) Sierra Mobile Lab - Trailer



16) Hand Pump on the CAP-18 drum to pump product in the 5 gal-bucket



17) Hose introducing product into the geoprobe tooling



18) Measured Quantities of Product being poured into the Hopper



19) Directing Exhaust Outside the Laundromat



20) Drilling/Injection Location in Laundromat (3823)



21)



22)



23) Drilling/Injection Location in the Laundromat



24) Injection in Source Area B



25) Injection Set up



26) Hopper with Product



27) Hand Pumping product



28) Getting Ready to Inject in source Area B



29) Clearing Utilities



30) Injection West of Building 1



31) Injection in Source Area C (west of building 1)



32) Injection in Source Area C (west of building 1)



33) Pump Set up for Injection



34) Drilling South of the Plaza for further characterization



35) Sewer sampling location SS-P-01



36) Sewer sampling location SS-P-01



37) Sewer sampling location SS-P-01



38) Sewer sampling location SS-A-03



39) Sewer sampling location SS-A-03



40) Sewer sampling location SS-A-01 and SS-A-02