The Hartford Working Group
Hartford, Illinois

Soil Vapor Investigation Report

The Hartford Area Hydrocarbon Plume Site

Hartford, Illinois

ENSR Corporation
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Soil Vapor Investigation Report

Dear Messrs. Faryan and Turner:

ENSR International is submitting the enclosed Soil Vapor Investigation Report on behalf of the Hartford Working Group (HWG). This report presents the results of investigations conducted in the Village of Hartford based on the work proposed in ENSR's December 2004 CSM Work Plan. This report documents the installation of additional vapor monitoring points (VMPs) and the results of site-wide baseline soil vapor sampling conducted in January and February 2005, as well as results from passive soil and sewer vapor investigations.

Please contact us at (630) 836-1700 with any questions.

Sincerely,

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Sr. Program Manager

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enclosure: *Soil Vapor Investigation Report, May 2005, 01005-093-351*

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CONTENTS

1.0 INTRODUCTION 1-1

2.0 METHODS AND PROCEDURES 2-1

2.1 Health and Safety Plan 2-1

2.2 Soil Vapor Monitoring Port Installation 2-1
- 2.2.1 Utility Clearance 2-2
- 2.2.2 Soil Sampling and Logging 2-2
- 2.2.3 Soil Sample Analyses 2-3
- 2.2.4 Soil Vapor Monitoring Port Installation 2-3
- 2.2.5 Pressurized Soil Vapor Pocket Incident 2-4

2.3 Active Soil Vapor Sampling 2-5
- 2.3.1 VP and VMP Sampling 2-6
- 2.3.2 MP Sampling 2-6
- 2.3.3 Praxair™ Point Sampling 2-7
- 2.3.4 Field Screening of Soil Vapor Samples 2-7

2.4 Subslab Monitoring Point Installation 2-7

2.5 Subslab Monitoring Point Vapor Sampling 2-8

2.6 Passive Soil Vapor Sampling 2-8
- 2.6.1 Passive Sample Media and Procedure 2-8
- 2.6.2 Passive Soil Sampler Installation 2-9
  - 2.6.2.1 Area 1 2-9
  - 2.6.2.2 Area 2 2-10

2.7 Passive Sewer Vapor Sampling 2-11
- 2.7.1 Sample Media and Procedure 2-12
- 2.7.2 Sample Collection 2-12

3.0 RESULTS 3-1

3.1 Soil Analytical Results 3-1
- 3.1.1 Headspace Screening Results 3-1
- 3.1.2 Chemical Analyses 3-1
- 3.1.3 Geotechnical Analyses 3-2

CONTENTS (Cont'd)

3.2 Active Soil Vapor Sampling Results 3-2

3.3 Praxair™ Point Vapor Sampling Results 3-3

3.4 Subslab Soil Vapor Sampling Results 3-3

3.5 Passive Soil Vapor Sampling Results 3-3

3.5.1 Area 1 Results 3-4

3.5.1.1 Headspace Screening Results 3-4

3.5.1.2 Chemical Analyses 3-4

3.5.1.3 Area 1 Gore-Sorber® Passive Vapor Results 3-5

3.5.1.4 Area 1 Emflux® Passive Vapor Results 3-5

3.5.2 Area 2 Results 3-5

3.5.2.1 Headspace Screening Results 3-6

3.5.2.2 Chemical Analyses 3-6

3.5.2.3 Geotechnical Analyses 3-7

3.5.2.4 Area 2 Gore-Sorber® Passive Soil Vapor Results 3-7

3.5.2.5 Area 2 Emflux® Passive Soil Vapor Results 3-7

3.6 Passive Sewer Vapor Sampling Results 3-8

4.0 DISCUSSION OF RESULTS 4-1

4.1 Soil Vapor Plume Distribution 4-1

4.1.1 Soil Vapor Distribution 4-1

4.1.1.1 Shallow Overburden ("A" Clay) 4-2

4.1.1.2 North Olive Stratum 4-2

4.1.1.3 Main Stratum 4-3

4.1.2 Soil Vapor Data Statistical Analysis 4-4

4.2 Passive Soil Vapor Sampling 4-8

4.3 Passive Sewer Vapor Sampling 4-8

5.0 REFERENCES 5-1

LIST OF FIGURES

Figure 2-1 Well Field, Soil Vapor Extraction and Sampling Port Location Map
Figure 2-2 Typical Nested Soil Vapor Monitoring Port Construction
Figure 2-3 A SSMP Installation Location Map
Figure 2-3 B Typical SSMP Construction Detail
Figure 2-4 Area 1-Typical Passive Soil Vapor Sampler Installation
Figure 2-5 Area 2-Typical Passive Soil Vapor Sampler Installation
Figure 2-6 Area 1-Passive Shallow Soil Vapor Sampling Locations
Figure 2-7 Area 2-Passive Soil Vapor Sampling Locations
Figure 2-8 Typical Gore-Sorber® Sampler Installation in Manhole
Figure 2-9 Passive Sewer Sampling Location Map
Figure 4-1 Benzene Soil Vapor Distribution Map – Shallow Overburden ("A" Clay)
Figure 4-2 Isopentane Soil Vapor Distribution Map – Shallow Overburden ("A" Clay)
Figure 4-3 Methane Soil Vapor Distribution Map – Shallow Overburden ("A" Clay)
Figure 4-4 Benzene Soil Vapor Distribution Map – North Olive Stratum
Figure 4-5 Isopentane Soil Vapor Distribution Map – North Olive Stratum
Figure 4-6 Methane Soil Vapor Distribution Map – North Olive Stratum
Figure 4-7 Benzene Soil Vapor Distribution Map – Main Sand Stratum
Figure 4-8 Isopentane Soil Vapor Distribution Map – Main Sand Stratum
Figure 4-9 Methane Soil Vapor Distribution Map – Main Sand Stratum
Figure 4-10 Gore-Sorber Analytical Data – Daily Average Sorbed Concentrations

LIST OF TABLES

Table 2-1 Soil Sampling Summary
Table 2-2 Geotechnical Soil Sampling Summary
Table 2-3 VMP Construction Summary
Table 2-4 Air Purge Volumes
Table 3-1 VMP Soil Sample Analytical Results
Table 3-2 Geotechnical Soil Sample Analytical Results
Table 3-3A Active Soil Vapor Analytical Results-VMP-1 through VMP-54 (ppbv)
Table 3-3B Active Soil Vapor Analytical Results-VMP-1 through VMP-54 (µg/m^3)
Table 3-4A Active Soil Vapor Analytical Results-VMP-55 through VMP-96 (ppbv)
Table 3-4B Active Soil Vapor Analytical Results-VMP-55 through VMP-96 (µg/m^3)
Table 3-5 A Active Soil Vapor Analytical Results-MP (ppbv)
Table 3-5B Active Soil Vapor Analytical Results-MP (µg/m^3)
Table 3-6 VMPs Not Sampled
Table 3-7 Praxair™ Point Soil Vapor Analytical Results
Table 3-8A Subslab Soil Vapor Analytical Results (ppbv)
Table 3-8B Subslab Soil Vapor Analytical Results (µg/m^3)
Table 3-9 PID FID Data – Area 1
Table 3-10 Area 1 - Soil Sample Analytical Results
Table 3-11 PID FID Data – Area 2
Table 3-12 Area 2 – Soil Sample Analytical Results

APPENDICES

Appendix A Soil Boring Logs
Appendix B Soil Sample Tracking Table
Appendix C Geotechnical Sample Tracking Table
Appendix D Pressurized Soil Vapor Pocket Incident Report
Appendix E Soil Vapor and Subslab Vapor Sample Tracking Table
Appendix F Passive Sampler Tracking Table
Appendix G Passive Sewer Sampler Tracking Table
Appendix H Area 1 Passive Sampler Technical Memorandum
Appendix I Area 2 Passive Sampler Technical Memorandum
Appendix J Passive Sewer Vapor Results
Appendix K Soil Vapor Data Statistics

1.0 INTRODUCTION

This Soil Vapor Investigation Report was prepared by ENSR Corporation (ENSR) on behalf of the Hartford Working Group (HWG). It presents the results of soil vapor investigations conducted within the Village of Hartford, Illinois. This work is being completed under the Administrative Order of Consent (AOC) with the United States Environmental Protection Agency (U.S. EPA) for the Hartford Area Hydrocarbon Plume Site (Site), Docket No. R7003-5-04-001.

The data presented in this report contributes to the continuing development of the conceptual site model (CSM) for the Site. This status report is intended to provide the agency with results of ongoing soil vapor investigations. Interpretation or relation to the CSM is reserved for a subsequent report to be submitted on behalf of the Hartford Working Group at a later date. Therefore, this report should not be viewed as a stand alone document, but rather as part of a series of investigations and efforts that contribute to the HWG's and the U.S. EPA's understanding of the Site.

The work presented in this report was described in the Conceptual Site Model Work Plan submitted to the U.S. EPA on December 10, 2004 (ENSR, December 2004), which was approved with comments by the U.S. EPA on December 22, 2004. The objectives of the work described in the CSM Work Plan were to augment the CSM in the following areas.

- Provide an overall increase in the density of soil vapor sampling points within the Site boundaries.
- Increase understanding of the distribution of soil vapor plumes within Hartford.
- Further assess potential impacts to the Site from adjacent off-site source areas.
- Provide a focused assessment of potential shallow sources within the Site boundaries.
- Provide soil vapor data prior to the startup of the site-wide soil vapor extraction (SVE) system.

The work presented in this report specifically includes the following.

- Installation of additional soil vapor monitoring ports (VMPs);
- Baseline soil vapor sampling from VMPs and monitoring points (MPs);
- Mapping of soil vapor plume distribution within the sampled stratum;
- Results of shallow passive soil vapor sampling; and
- Results of passive sewer vapor sampling.

2.0 METHODS AND PROCEDURES

The following section describes the specific methods and procedures that were followed. Similar methods and procedures are described in the Vapor Migration Pathway Assessment Report (ENSR, October 2004) submitted to the USEPA in October 2004 and discussed again in this section as appropriate.

2.1 Health and Safety Plan

ENSR prepared a site-specific Health and Safety Plan (HASP [ENSR, July 2004]) to address safe working conditions during the drilling and sampling activities. ENSR employees and ENSR subcontractors were provided with a copy of the HASP to review and required to sign an acknowledgment of having read the HASP prior to engaging in field work activities. A daily tailgate meeting was conducted to discuss the day's planned activities, site conditions and Health and Safety questions which may have arisen from the previous day's activities. This meeting was conducted each morning at the drilling subcontractor's field trailer.

2.2 Soil Vapor Monitoring Port Installation

ENSR installed and sampled soil vapor monitoring points (VMPs) in March 2004, July 2004 and August 2004. This third planned mobilization was designed to meet a series of objectives stated in the CSM Work Plan. These objectives included:

- Further delineation of soil vapor plume in the Buffer Zone;
- Providing an overall increase in the density of VMP locations within Site boundaries;
- Investigating areas where the Main Sand formation is shallow with respect to overburden thickness;
- Further definition of soil vapor plume along eastern and northern Site boundaries; and,
- Installing VMPs at off-site locations to investigate potential impacts north of Rand Avenue, east of the Site boundary, and west of the Site along Illinois State Route 3.

The following subsections describe the drilling, soil sampling and soil analytical methods that were followed as part of the installation of vapor monitoring points. **Figure 2-1** is a site layout map showing existing soil vapor monitoring point, groundwater monitoring well (for reference only), and soil vapor extraction well locations.

2.2.1 Utility Clearance

The proposed boring locations were physically located and labeled with marking paint prior to contacting Illinois' Joint Utility Locating Information for Excavators (JULIE) one-call program. The utility locate process included a site meet with utility company representatives, a Village of Hartford Public Works representative, ENSR, and ENSR's subcontracted drilling firm, MRK Environmental Exploration, Inc. (MRK) of Waterloo, Illinois, and later, Philips Services Corporation (Philips) of Columbia, Illinois. Physical utility line mark outs were completed within the immediate vicinity of the proposed drilling locations within 48 hours of the site utility meeting.

Underground utility line mark outs were located prior to conducting subsurface drilling activities. Prior to drilling at each of the boring locations, a Village of Hartford Public Works representative was on-hand to authorize a final clearance to drill. In addition, ENSR personnel were responsible for coordinating with Premcor to have a representative on-site during the drilling and VMP installation activities along North Olive, Elm, Cherry and Date Streets. A Premcor representative was on-hand to authorize a final clearance to drill at these latter locations.

2.2.2 Soil Sampling and Logging

The majority of the VMP locations were located on Village streets and required the use of a diamond bit corer to advance through paved surfaces. Once completed, hand auguring was conducted to verify that utilities or other obstructions were not present. Either a single or dual 4-inch outside diameter hand auger was advanced 10 ft below ground surface (bgs). Grab soil samples from the hand auger were collected from 0 to 10 ft bgs. Soil borings advanced greater than 10 ft bgs were completed with a hollow-stem auger drill rig (CME 45 or similar). Soil samples were continuously collected from 10 ft depth to boring termination using a split-spoon sampler. Split-spoons used for the sampling were typically 5-ft long by 3.75-inch inside diameter.

Soil samples were observed, described, and classified by ENSR personnel following the Unified Soil Classification System (USCS). Field classification included noting, if present, petroleum-impacted soils, discoloration, or odors. Other items noted included moisture, color, grain size, and relative density/consistency of sample. Sample recovery was measured with respect to the sampled interval and the recovered interval noted on the field boring logs. Soil types and sampling intervals for the VMPs are detailed on the boring logs in **Appendix A**.

Soil samples were field screened utilizing a Thermo Environmental TVA-1000 dual photoionization detector (PID) and flame-ionization detector (FID). Prior to the start of work each field day, the PID/FID was calibrated in accordance with manufacturer instructions. At a minimum, at least one headspace reading was collected from each soil sample interval, and in some of the borings two or more readings were collected from a sample interval. The selected soil sample was placed in a sealable bag, sealed, and allowed to equilibrate for a minimum of five minutes before the PID/FID measurements were taken

from air within the bag. **Table 2-1** summarizes the soil boring and sample collection activity, and the PID/FID readings. PID/FID readings are also noted on the soil boring logs in **Appendix A**.

2.2.3 Soil Sample Analyses

Soil samples were collected for petroleum hydrocarbon analyses where petroleum hydrocarbon impacts (e.g., odor) were observed by ENSR field personnel during drilling and sampling. A total of 76 soil samples were collected and delivered under chain-of-custody to TEKLAB, Inc. (TEKLAB) located in Collinsville, Illinois. Soil samples were analyzed by TEKLAB for benzene, ethylbenzene, toluene, and total xylenes (BTEX), methyl tert-butyl ether (MTBE) and total petroleum hydrocarbons (TPH) gasoline range organics (GRO) by U.S. EPA Method 5035/8260B; TPH diesel range organics (DRO) by U.S. EPA Method 8270C; and percent moisture and total solids using ASTM Methods D2974 and 2540G, respectively.

The samples collected and submitted for analyses are summarized in **Table 2-1**. **Appendix B** contains the soil sample tracking form which contains sample collection information including field duplicate samples, rinseate samples and trip blanks, and laboratory sample receipt and analysis dates along with laboratory report number and laboratory sample IDs. Field duplicate and rinseate samples were collected after every 20th sample.

Selected soil samples were collected, packaged, and shipped under chain-of-custody for geotechnical and chemical analyses. Seventeen (17) geotechnical samples were obtained from 14 soil borings and were relinquished under chain-of-custody to TEKLAB, Inc. who contracted Shively Geotechnical, Inc. located in Fairview Heights, Illinois, for analysis. Analyses included particle size analysis by ASTM D-422, moisture content by ASTM D-2216, unit weight by ASTM D-2937 (bulk density), specific gravity by ASTM D-854, and porosity. Porosity was calculated using soil-mass relationships. The samples collected and submitted for analyses are summarized in **Table 2-2**. **Appendix C** contains the sample tracking form containing sample collection information and laboratory sample receipt and analysis dates along with laboratory report number and laboratory sample IDs.

2.2.4 Soil Vapor Monitoring Port Installation

Permanent vapor monitoring ports (VMP) were constructed within the soil borings following completion to total depth. Forty-two (42) borings (VMP-27D, and VMP-54 through VMP-96) were drilled during this mobilization (**Figure 2-1**). A total of 123 ports were installed with many of these nested within a single boring.

A typical schematic of a nested soil vapor monitoring port installation is shown in **Figure 2-2**. The VMPs were constructed using a 0.5-inch outside diameter by 6-inch long Geoprobe Systems® stainless steel screens connected to a 0.125-inch inside diameter stainless steel riser tubing that extended to ground surface. At ground surface, the riser tubing was completed with a sampling cap.

Annular space between the open borehole and the stainless steel screen was backfilled with a sand pack that extended from 6 inches below the sample port to 6 inches above the sample port. Bentonite pellets were placed over the sand pack and hydrated in-place to act as a seal between individual nested sample ports. Hydrated grout was used close to ground surface as part of the vapor port construction. VMPs were finished at ground surface with a flush-mounted 6-inch diameter protective steel cover and grouted in place.

Vapor port screens were placed at various depths to sample soil vapors within the more permeable unconsolidated deposits and fill materials encountered. As many as four vapor port screens were nested within a single boring. The vertical placement of vapor ports was primarily based on geologic conditions observed while drilling, with the majority of ports constructed in unsaturated portions of the North Olive and Rand Stratums, where present, as well as in the Main Sand above the water table. Most of the very shallow (VS) ports were installed from approximately 4.5-6 ft bgs in the VMPs completed for this mobilization. The purpose of these ports was to assess the distribution of hydrocarbons in soils at an equivalent depth and formation as typical building foundation depths within the Village.

Vapor ports were assigned a suffix abbreviation of VS for ports typically installed less than 10 ft from the ground surface, which generally consisted of either clayey overburden soils or fill materials. The S (shallow) designation was assigned to those ports generally placed between 8 ft and 19 ft of the ground surface and concentrated near or within the North Olive Stratum when present. The M (medium) designation includes those ports generally greater than 12.5 ft but less than 23.5 ft bgs and situated either in the Rand Stratum, when present, or the upper Main Sand. The D (deep) vapor ports generally extended greater than 25 ft bgs and were in almost all cases set in the unsaturated Main Sand above the water table. Color coding of tubing caps was used to differentiate VS, S, M, and D ports in the field. VMP elevations and construction details are summarized in **Table 2-3**.

2.2.5 Pressurized Soil Vapor Pocket Incident

During the afternoon of January 31, 2005, an accumulation of pressurized soil vapor was encountered at a depth of approximately 34 ft while auger drilling boring VMP-96 (originally referred to as VMP-28D), located at the east end of W. Birch St. ENSR and drilling subcontractor personnel who were performing the drilling and sampling at the time observed a vapor shimmer and a petroleum hydrocarbon odor emanating from the hollow-stem augers. Lower explosive level (LEL) limits were measured up to 50% or more in the immediate area around the borehole. Similarly, FID and PID readings were measured to be several orders of magnitude with respect to background conditions inside and near the hollow-stem augers and within the breathing zone area. Vapor concentrations within the breathing zone dissipated very quickly after the initial readings (i.e. initial PID/FID was 145/1,320 ppm at 1:35 PM and 1.23/2.3 ppm at 2:00 PM). Additional details of the incident are summarized in the report submitted to the Agencies on February 3, 2005 (**Appendix D).**

Judging from stratigraphy at boring VMP-96, there was a silty clay layer from 29 to 33 ft bgs overlying a sand layer. This appears to have created a structural vapor trap between the base of the silty clay layer at 33 ft bgs and the water table (greater than 34 ft bgs), thereby allowing soil vapors to accumulate within coarser grained deposits (sand) and be trapped by overlying finer grained deposits (clays). The accumulation and trapping of soil vapors without an outlet appears to allow build-up of soil vapor pressure within the limits of the structural vapor trap. Pressure build-up may be enhanced by a rising water table below the vapor pocket or methane being produced as petroleum hydrocarbon constituents in the subsurface naturally degrade under anaerobic conditions.

2.3 Active Soil Vapor Sampling

This section describes the soil vapor sampling procedures followed during the January and February 2005 (1st quarter 2005) sampling. Soil vapor samples were collected from sampling points installed by ENSR (VPs and VMPs), Clayton (MPs), and Premcor (Praxair™ points [PAs]). Because sample port construction differed, sample collection methods varied slightly based on sample port construction. The Praxair™ points were previously installed by a Premcor contractor along their pipelines located on East and West Elm streets and not as part of the HWG investigations.

Active soil vapor samples were collected from sampling points using Summa™ canisters. Summa™ canisters were provided, cleaned, and conditioned by the contracted laboratory (Air Toxics, Ltd.) and were batch certified. Each canister had an initial negative pressure of approximately 30-inches of mercury. In order to collect time-integrated samples, each Summa™ canister was fitted with a flow-controller and internal particulate filter assembly that allowed for collection of an approximate 30-minute sample. The sample-train assembly consisted of the Summa™ media, a miniature three-way purge valve, and a short section of Teflon sample line. After attaching the sample-train assembly to the vapor point, three well volumes of air were removed using a 60-ml plastic syringe (for VP, VMP, and Praxair™ locations) or a manually operated stainless steel hand pump (for MP locations).

After purging and immediately prior to sampling, each member of the two-person sampling team verified that the sample trains were configured correctly and that the purge valve was correctly set to the sampling configuration. Following verification that the sample train was configured correctly, the main valve on the Summa™ canister was opened and the initial canister vacuum and sample start time was documented. Because the canister is at negative pressure, soil vapor is sampled through the flow-controller assembly and associated sample line directly into the Summa™ canister at a constant rate. The actual sample flow rate is dependent upon the flow controller calibration setting and the permeability of the soils adjacent to the vapor well. At the conclusion of the sampling, a final vacuum reading was recorded. The difference between the initial and final vacuum pressure on the canister allows the laboratory to determine the sample volume and calculate the sample dilution factor needed as part of the analytical method.

The sampling lines and associated purge valves were disposed after each use in order to minimize the potential for cross-contamination between samples. Weather conditions were also noted during sample collection activities. **Appendix E** contains the soil vapor sample tracking form which contains sample collection information including duplicate samples and laboratory sample receipt and analysis dates along with laboratory report number and laboratory sample IDs.

2.3.1 VP and VMP Sampling

Samples were collected from permanent soil vapor ports (VPs and VMPs) using either 1-liter or 6-liter Summa™ canisters. The size of the canister used depended on the number of analyses being conducted on the sample and the expected concentrations of target compounds. In summary, 6-liter Summa™ canisters were used for sampling vapor ports that had not previously been sampled, or those thought to have low concentrations of the target compounds. Locations previously sampled that indicated elevated target compound concentrations were sampled using 1-liter Summa™ canisters.

Prior to sampling, three port volumes of soil vapor was purged using a 60-ml plastic syringe in conjunction with a miniature purge valve to ensure that representative soil vapor samples were collected. Purge volumes are provided in **Table 2-4**. After purging, the purge valve was set to the sample position and the main valve on the Summa™ canister opened and the initial canister vacuum and sample start time was documented. Each Summa™ canister used was fitted with a dedicated 30-minute flow controller in order to allow a flow rate of no greater than 200-ml/minute. After each use, the flow controller was returned to the laboratory for reconditioning. The majority of the samples were collected over a 30 to 60-minute period, dependent on the accuracy of the flow controller and the permeability of the soils adjacent to the vapor wells.

2.3.2 MP Sampling

ENSR collected soil vapor samples from the monitoring points (MPs) using either 1-liter or 6-liter Summa™ canisters, depending on the location of the monitoring point and expected target compound concentrations. The MPs are constructed with 1- or 2-inch diameter PVC risers and screens. Screen lengths vary from several feet to 15 feet depending on the formation screened. An expandable sample plug with a 0.25-inch sampling port was attached to the top of the MP riser to create an air tight connection. A short section of Teflon sample line and a miniature purge valve was connected between the sample plug and the Summa™ canister. Prior to sampling, three volumes of vapor were purged from the MPs using a manually operated stainless steel hand pump to ensure that a representative vapor sample was collected. Purge volumes are provided in **Table 2-4**. After purging, the purge valve was set to the sample position and the main valve on the Summa™ canister opened and the initial canister vacuum and sample start time was documented. Each Summa™ canister used was fitted with a dedicated 30-minute flow controller in order to allow a flow rate of no greater than 200-ml/minute.

2.3.3 Praxair™ Point Sampling

ENSR sampled the Praxair™ vapor monitoring points (PAs) using 6-liter Summa™ canisters fitted with 30-minute flow controllers. With the exception of how the canisters were connected to the Praxair™ points, the samples were collected following the same methodology as described above for the MPs, VPs, and VMPs. Because the Praxair™ points are set very shallow (approximately 2 feet deep), and to ensure sampling consistency, a purge volume of 500-ml was removed prior to sampling using an airtight pipe fitting that fastened directly to the top of the 1-inch Praxair™ point.

2.3.4 Field Screening of Soil Vapor Samples

The majority of the vapors collected from the vapor wells were also field screened using real-time, direct readout instruments. Immediately following the collection of the Summa canister sample, a battery operated or manually operated stainless steel hand pump (dependent on the permeability of the soils) was utilized to collect a sample directly from the vapor well into a 1-liter Tedlar bag. The bag samples were screened at the ENSR site trailer for VOCs (PID/FID) and LEL/oxygen and the results recorded on the field data sheets.

2.4 Subslab Monitoring Point Installation

As of April 4, 2005, subslab monitoring points (SSMPs) have been installed in 29 homes within the Village in order to collect subslab soil vapor samples. The locations of the homes are shown in **Figure 2-3A**. A typical subslab monitoring point construction detail is shown in **Figure 2-3B**. Because the potential exists for a potential vapor release during installation, health and safety guidelines were followed. After assessing satisfactory indoor air quality in the area adjacent to the monitoring point installation, a rotary hammer drill used in conjunction with a 1.5-inch diameter bit was used to bore a hole through the sub-slab. Immediately after drilling, the borehole was screened using a direct readout LEL and VOC monitor.

After determining that proceeding with the installation was non-hazardous, the monitoring point is assembled and placed into the borehole at the desired depth (depending on thickness of the concrete). The top of the point is located at, or slightly below floor grade. Filter sand was then used to fill the space surrounding the screened section of the point to at least 0.5-inches above the top of the screen. A layer of bentonite pellets was then applied immediately above the point-screen filter pack in order to provide a barrier to vertical flow of vapor in the annular space between the borehole and the monitoring point assembly. A small amount of water was used to hydrate the bentonite. A quick drying cement was then used to seal the assembly from the borehole from the top of the bentonite plug to approximately half-way up the cap compression fitting. After the cement seal has solidified, a quick-drying epoxy mixture was applied for the final seal.

2.5 Subslab Monitoring Point Vapor Sampling

ENSR collected soil vapor samples from the subslab monitoring points using either 1-liter or 6-liter Summa™ canisters, depending on the location of the monitoring point and expected target compound concentrations. Purging of the subslab monitoring points prior to sample collection was conducted using real-time, direct readout instruments. The instruments are connected directly to a barbed fitting that was previously attached to the monitoring point and allowed to monitor the vapor point until a stable reading is recorded. This procedure allows for both the vapor well purging and screening to be conducted concurrently. After purging, the Summa™ media was connected to the barbed fitting using a short section of dedicated Teflon tubing. The main canister valve was then opened and the initial canister vacuum and sample start time was documented on the sample data sheet. Each Summa™ canister used was fitted with a dedicated 30-minute or 24-hour flow controller (dependent on site accessibility) in order to allow a flow rate of no greater than 200-ml/minute. **Appendix E** contains the subslab soil vapor sample tracking form which contains sample collection information including duplicate samples and laboratory sample receipt and analysis dates along with laboratory report number and laboratory sample IDs.

2.6 Passive Soil Vapor Sampling

Shallow passive soil vapor surveys were conducted in two areas to measure the effectiveness of the passive samplers as a soil vapor screening tool. The following sections describe the passive sampling media used and the areas where they were deployed.

2.6.1 Passive Sample Media and Procedure

Both Gore-Sorber® and Emflux® passive soil vapor sampling media were deployed to compare and contrast their effectiveness. The following sections describe these samplers.

Gore-Sorber®: The Gore-Sorber® sampler consists of a chemically-inert, vapor permeable, waterproof GORE-TEX® membrane that houses a series of engineered adsorbents. The module is approximately 6 inches long, looped on one end and coded with a unique module number. The modules are packaged in glass vials for shipment and coded with the same unique module number.

The number and location of the module to be used along with the time and date of deployment is noted on the sample log. The module is removed from its individual glass storage vial and string or wire is affixed to the looped end of the module. The vial is kept to store the Gore-Sorber® upon retrieval. The module is lowered into a previously prepared borehole (e.g., mini-well) a set depth until the unit is in the screened interval of a mini-well. **(Figures 2-4 & 2-5)**. The end of the wire or string is fastened to an expandable well plug or end cap and the cap or plug is then secured on top of the mini-well. Upon retrieval, typically after two weeks, the cap is removed and the module is retrieved from the mini-well. The string or wire is removed from the module and discarded and the module is returned to its

individually labeled storage vial. The time, date, odors present, and moisture present are noted on the sampling log located in **Appendix A**.

Emflux®: The Emflux® sampler consists of an approximately 2-inch long glass vial with a plastic cap that is interchangeable with a screened cap for deployment. Inside each vial are four hydrophobic adsorbent cartridges and the outside of each vial is pre-wound with approximately six inches of steel wire. The samplers are packaged in a sampling kit that includes a container of screened sampling caps, an empty container to hold the solid storage caps during sampling, an empty container to hold the used mesh caps, and a wooden tray to hold and secure the vials and trip blanks which are double wrapped in air tight storage bags.

A similar tracking procedure is used for Emflux® samplers as previously described for Gore-Sorber®. The date and time is first noted on the sampling log, then an Emflux® sampler is selected and the solid storage cap is replaced with a mesh sampling cap from the sampling cap storage container. The solid cap is placed in the storage cap container to be used again upon retrieval. The solid storage cap is labeled upon retrieval of the sampler. The sampler is inverted and sampler and wire are lowered down the well. The unit is set at the top of the screened portion. Excess wire is affixed to the top of the mini-well. The Emflux® manufacturer, Beacon Environmental, recommends that aluminum foil, rolled into a ball and forced into the opening of the mini-well, be used to create a seal. Typically the sampler is extracted from the well after approximately 48 hours. After sample extraction, the mesh sampling cap is removed, the threads are cleaned with gauze to ensure a tight seal and a solid storage cap is screwed on the vial. The mesh sampling cap is placed in the sampling cap storage container to be returned with the samples. The wire is removed and discarded. The vial is placed back in the sample tray. The location of the sample is noted on the top of the storage cap and the vial is replaced in the sampling kit. Gore-Sorber® and Emflux® Samplers were installed in either HA (hand auger) or GP (Geoprobe) borings. Information such as the presence of odors and/or moisture on the sampler and time of installation are noted on the individual boring logs in **Appendix A**. The specific borings for given samplers and their dates of installation are described in the following text.

2.6.2 Passive Soil Sampler Installation

ENSR performed passive sampling in Area 2 in January 2005. Due to wet field conditions, ENSR to postponed Area 1 passive sampling until conditions improved. Sampling in Area 1 was completed in February 2005.

2.6.2.1 Area 1

The shallow passive soil vapor survey in Area 1 was completed to (1) measure soil vapor concentrations spatially over an approximate two acre area; (2) compare with active vapor sampling data collected contemporaneously with passive soil data; (3) correlate with PID/FID response and; (4)

determine if passive soil data results coincide with limits of the residual free-phase hydrocarbon plume defined in the ROST investigation.

Area 1 passive soil samplers were deployed in mini-wells at depths of 5.5-6 ft bgs. The mini-wells were constructed by hand auguring to roughly 6 ft subsurface using a typical hand auguring system. Mini-well construction consisted of approximately 5 ft of solid 1 in. diameter PVC riser, a screened interval of 12-18" PVC and an end cap. A sand filter pack was placed around the annulus of the mini-well from the bottom of the well to approximately 6 inches above the screened interval. Bentonite was placed around the well to prevent surface water and seepage from entering the well. This plug was approximately 2ft. thick. The remainder of the annulus was filled with filter sand to surface. The mini-wells were completed as stick-ups approximately one foot above grade. **Figure 2-4** displays the typical mini-well construction for Area 1.

Installations of the mini-wells for deploying the passive samplers were completed during the week of February 14th 2004. Hand auguring was completed by GRP Mechanical using a two-man crew. Soil cuttings were containerized and properly disposed. A total of 13 locations, HA-2, HA-6, HA-8, HA-10, HA-13, HA-16, HA-19, HA-24, HA-27, HA-29, HA-31, HA-34 and HA-37, were completed with pairs of mini-wells for each type of sample media **(Figure 2-6)**. HA-1, HA-3, HA-5, HA-7, HA-15, and HA-36 were completed for Emflux® sampling and HA-4 was completed for Gore-Sorber® sampling. Emflux® samplers were deployed on February 18th and retrieved on February 21st. Gore-Sorber® samplers were deployed on February 18th and retrieved on February 25th. Passive samplers were deployed the length of time recommended by the manufacturer.

The Area 1 sampling procedure was modified since it was determined that the possibility for cross-contamination existed through the placement of a vial exposed to vapors into the storage container with unused vials. The changes in procedure consisted of using a clean empty vial for placement of the sample media after retrieval. The vial used for sampling and the mesh sampling cap were both discarded. An expandable well plug was utilized to seal the mini-well instead of aluminum foil for ease of use. **Appendix F** contains the passive soil vapor sample tracking form which contains sample collection information including duplicate samples and laboratory sample receipt and analysis dates along with laboratory report number and laboratory sample IDs.

2.6.2.2 Area 2

The shallow passive soil vapor survey in Area 2 was completed to (1) measure soil vapor concentrations along profiles that extend across areas of the Site with different subsurface conditions; (2) compare with active vapor sampling data collected contemporaneously with passive soil data; (3) correlate with PID/FID response and; (4) determine if passive soil data results coincide with limits of the residual free-phase hydrocarbon plume defined in the ROST investigation. In response to scope modifications suggested by EPA and TetraTech, ENSR extended passive sample profiles to intersect

the residual free-phase boundary along Market Street and along an east-west alleyway located north of E. Forest Street.

Area 2 mini-wells were constructed to a depth of approximately 6 feet. Installation of the mini-wells was accomplished with Geoprobe® direct push technology. The mini-well was constructed with approximately five feet of solid 1 in. PVC riser, a bottom screened interval of 12" PVC and an end cap. A sand filter pack was placed around the annulus of the mini-well from the bottom of the well to approximately 6 inches above the screened interval. Bentonite was placed around the well to prevent surface water from entering the well. The remainder of the annulus was filled with filter sand. The mini-wells were flush-mounted. **Figure 2-5** displays the typical mini-well construction for Area 2.

Installation of the mini-wells was completed the week of January 3rd and January 10th. A total of 28 locations were completed. Each location consisted of two mini-wells, one for the Gore-Sorber® the other for the Emflux® sampler. The first mini-well at each location was drilled to a depth of 12-15 ft for soil classification and field screening purposes. The boring was backfilled with bentonite to a depth of 6 ft and the mini-well was constructed. The second mini-well was blind-drilled adjacent to the first to 6ft bgs. **Figure 2-7** depicts the sampling locations.

Emflux® samplers were deployed in GP-1, GP-2, GP-3, GP-4, GP-7, GP-8, GP-9, GP-10, GP-11, GP-12, and GP-13 on January 7th and retrieved on January 11th. Emflux® samplers were deployed in GP-14, GP-15, GP-16, GP-17, GP-18, GP-19, GP-20, GP-21, GP-23, and GP-24 on January 13th and retrieved on January 17th. Emflux® samplers were deployed in GP-27 and GP-28 on January 14th and retrieved on January 21st. Gore-Sorber® samplers were deployed in GP-1, GP-2, GP-3, GP-4, GP-7, GP-8, GP-9, GP-10, GP-11, GP-12, and GP-13 on January 7th and retrieved on January 21st. Gore-Sorber® samplers were deployed in GP-14, GP-15, GP-16, GP-17, GP-18, GP-19, GP-20, GP-21, GP-23, GP-24, GP-25, GP-26, GP-27, and GP-28 on January 13th and retrieved on January 21st. **Appendix F** contains the passive soil vapor sample tracking form which contains sample collection information including duplicate samples and laboratory sample receipt and analysis dates along with laboratory report number and laboratory sample IDs.

2.7 Passive Sewer Vapor Sampling

Passive sewer vapor sampling was conducted to assess the spatial and temporal variability of hydrocarbon vapor constituents in sanitary sewers within the Village. Objectives of this effort were to collect data to compare to shallow passive soil vapor samplers and to evaluate potential sources and pathways for vapors in the sewers. Gore-Sorber® samplers were selected for this investigation because they could be deployed for longer periods of times.

2.7.1 Sample Media and Procedure

The Gore-Sorber® module, number, sewer location, date and time is noted on the sample tracking sheet. Prior to installation, the manhole cover of the sewer is removed. The module to be deployed is removed from a glass vial container. The glass vial with module number is saved for future sampler. A nylon string is affixed to the looped portion of the module. The module is lowered into the manhole to a predetermined depth, ranging from two to six feet. **Figure 2-8** depicts typical Gore-Sorber® placement in a sewer. The depth selected is based on the depth to the laterals tied into the sewer. The module hangs above these laterals. The string is affixed to the inside of the manhole and the module is allowed to hang freely. The manhole cover is replaced.

Prior to retrieval, the date and time is noted on the sampling summary. The manhole cover is removed. The string is removed from the inside of the manhole and the module is extracted. The string is removed from the module and discarded, and the module is repacked into its individual glass vial. The manhole cover is then replaced.

2.7.2 Sample Collection

The passive sewer vapor sampling network consists of twenty-eight (28) sewer manhole locations where passive samplers have been deployed since January 2005. As shown on **Figure 2-9,** the passive sewer vapor sampling was focused on two areas within the Village. The first area is Cherry Street north to Rand Avenue. The second area extends from East Elm Street south to East Maple Street.

A sampling event consists of one Gore-Sorber® module deployed for an approximate two-week period at a sewer manhole location and replaced with a new one for the next two-week period. The first event started on January 13, 2005 with the final retrieval occurring on May 1, 2005. Sewers A9, A8.5C, A8.5B and A8.5A located in the vicinity of the Hartford Community Center (see **Figure 2-9**) were sampled for a 30 day event starting December 1, 2004 and a 14 day event beginning on December 30, 2004. **Appendix G** contains the passive sewer vapor sample tracking form which contains sample collection information including duplicate samples and laboratory sample receipt and analysis dates along with laboratory report number and laboratory sample IDs.

3.0 RESULTS

The results of the field investigation activities are summarized in the following sections. Detailed discussion and interpretation of the results are provided in Section 4.0.

3.1 Soil Analytical Results

The following sections present the field screening and laboratory analytical results for the soil samples collected during the VMP installation activities. Boring logs are presented in **Appendix A**.

3.1.1 Headspace Screening Results

Soil samples collected during installation of the VMPs were field screened using a PID/FID. Results of headspace readings are included on the boring logs presented in **Appendix A**. Headspace readings from soil samples are categorized based on readings less than 100 ppm, 100-1,000 ppm, and greater than 1,000 ppm.

- PID or FID readings greater than 1,000 units were observed in soil samples from VMP-27D, VMP-54 through VMP-59, VMP-65, VMP-67 through VMP-71, VMP-74 through VMP-78, VMP-80, VMP-81, VMP-89, VMP-90, VMP-94, and VMP-96.

- PID or FID readings between 100 ppm and 1,000 ppm were observed in soil samples from VMP-60, VMP-64, VMP-73, VMP-79, and VMP-86.

- PID or FID readings of less than 100 ppm were noted at VMP-61 through VMP-63, VMP-66, VMP-72, VMP-82 through VMP-85, VMP-88, and VMP-91 through VMP-93.

These results were consistent with previous investigations conducted by ENSR and Clayton, including the distribution of impacted soils defined the ROST Investigations (Clayton, April 2004).

3.1.2 Chemical Analyses

ENSR collected 76 soil samples for laboratory analysis during the VMP drilling. Analytical results for soil samples are summarized in **Table 3-1**. These results will be incorporated into a larger data set of soil analytical data for the Site and evaluated in a separate report. Following is a brief summary of the soil analytical results.

- Benzene was detected in 69 of 76 samples at concentrations ranging from 1J to 245,000 micrograms per kilogram (µg/kg). A "J" value is an estimated value, meaning the analyte was detected below the reporting limit.

- Ethylbenzene was detected in 59 of 76 samples at concentrations ranging from 5.1J to 823,000 µg/kg.
- Toluene was detected in 68 of 76 samples at concentrations ranging from 4.8J to 1,320,000 µg/kg.
- Xylenes were detected in 67 of 76 samples at concentrations ranging from 5.1J to 1,750,000 µg/kg.
- MTBE was detected in 2 of 76 samples at concentrations of 2.2J µg/kg and 2.8J µg/kg.
- TPH-DRO was detected in 56 of 76 samples at concentrations ranging from 12.7J to 9,870 milligrams per kilogram (mg/kg).
- TPH-GRO was detected in 55 of 76 samples at concentrations ranging from 1.11J to 29,700 mg/kg.

These results were consistent with previous investigations.

3.1.3 Geotechnical Analyses

Seventeen soil samples were analyzed for grain-size distribution using wet sieve analysis. Five of these samples were also analyzed for moisture content and porosity. The results are summarized in **Table 3-2**.

3.2 Active Soil Vapor Sampling Results

A total of 446 active soil vapor samples were collected in January, February, and March 2005. **Tables 3-3 through 3-5** summarize the analytical results. VOC constituents were detected in the samples collected from the various stratum.

A total of 31 sample field duplicates were collected for quality assurance/quality control (QA/QC) purposes, representing approximately 7-percent of the total number of samples collected. One sample anomaly was reported for the sample collected from VMP-15S on January 6, 2005. The analytical results for this sample indicate very low concentrations of petroleum vapors present in the sample; however, analytical results for a sample collected from VMP-15S on September 3, 2004, indicate much higher concentrations of the petroleum vapors. This anomaly is most likely attributed to a technical error made during the January 2005 sampling. It is likely that a gross leak in the sample train occurred or the sample/purge valve was incorrectly set resulting in sampling of ambient air rather than soil vapor.

A total of 17 vapor monitoring ports could not be sampled because they were saturated with water. At one location (VMP-76D) a sampling port was saturated with petroleum product (gasoline) rather than water. The water saturation at the various locations was likely a result of heavy precipitation prior to the sampling, seasonal variation of groundwater levels, or a combination of both. Attempts were made

to purge the vapor wells of residual water using syringes or hand pumps. In most cases, these efforts were not successful. Additionally, 9 vapor ports would not yield a vapor sample. The failure of a vapor port to yield a sample may be the result of the port being saturated or the inability of the soil to yield vapors under the applied vacuum. A list of the vapor monitoring ports that could not be sampled is provided in **Table 3-6**.

3.3 Praxair™ Point Vapor Sampling Results

Vapor samples were collected from four Praxair™ vapor points (PA-46, PA-53, PA-61, and PA-67) located along West Elm Street. **Table 3-7** summarizes the analytical results. The Praxair™ vapor points are installed to a depth of approximately 2-feet bgs. Several VOC constituents were detected in samples collected from the vapor points. Benzene was detected at concentrations ranging from 0.62 ppbv to 260 ppbv. Isopentane was detected at concentrations ranging from less than 0.62 ppbv to 770,000 ppbv, and methane was detected at concentrations ranging from 0.0002 percent to 0.021 percent.

3.4 Subslab Soil Vapor Sampling Results

A total of 275 samples were collected from subslab monitoring points installed in homes throughout the Village and at the Hartford Community Center. **Table 3-8** summarizes the analytical results. Several VOC constituents were detected in the samples collected from the subslab monitoring points. Benzene was detected at concentrations ranging from less than 0.65 ppbv to 200,000 ppbv. Isopentane was detected at concentrations ranging from less than 2.6 ppbv to 30,000,000 ppbv, and methane was detected at concentrations ranging from less than 0.00013 percent to 70 percent. The highest concentrations were predominantly observed at the Community Center.

3.5 Passive Soil Vapor Sampling Results

The results of the passive soil vapor sampling using Emflux® and Gore-Sorber® samplers are summarized in the technical memoranda provided in **Appendices H and I**. The technical memorandum presented in **Appendix H** provides a detailed analysis of the passive sampler results from the HCC Area 1 and their potential application to the site. A similar memorandum for Area 2 passive vapor sampling is presented in **Appendix I.** Passive sampler boring logs are presented in **Appendix A**. Because the passive samplers function by sorbing a known mass of contaminants from an unknown volume of soil vapor, the contours depicted on the figures provided in the technical memoranda do not indicate actual soil vapor concentrations, but rather provide a general indication of areas where petroleum constituents were detected in soil vapor.

Many of the passive soil vapor samplers submitted to the laboratory had very high concentrations of target compounds present. Because high-concentration samples often require multiple dilutions in order to accurately quantify a particular target compound concentration, it is often necessary to re-

analyze (rerun) the sample at a lower dilution using a by-pass apparatus. The bypass apparatus removes the lighter, high concentration compounds from the analysis to avoid the potential for these compounds to interfere with later-eluting compounds. This procedure allows for lower detection limits to be achieved for the low concentration compounds present in the samples and to accurately report their concentration.

3.5.1 Area 1 Results

Soil samples were collected during the completion of the hand augured soil borings completed for passive soil sampler installation in Area 1. The following sections present the field screening and laboratory analytical results for 22 soil samples. Boring logs are presented in **Appendix A**.

3.5.1.1 Headspace Screening Results

Soil samples collected during the hand auguring of the sampling locations were field screened using a PID/FID. Results of headspace readings are summarized in **Table 3-9** and included on the boring logs presented in **Appendix A**. The following paragraph summarizes these results.

Headspace values were measured for samples collected at the 5-6 ft. depth interval. PID/FID readings greater than 1,000 ppm were observed in soil samples from HA-8, HA-13, HA-19 and HA-27. Five of 22 of the borings had PID or FID readings greater than 1,000 ppm. PID readings greater than 1,000 ppm were not observed in any of the hand augured borings. PID/FID readings between 100 ppm and 1,000 ppm were observed in soil samples from HA-10, HA-16, HA-24, HA-29, HA-31, HA-34, and HA-36. No readings greater than 100 ppm for both the PID and FID were observed for the 22 samples.

3.5.1.2 Chemical Analyses

ENSR collected 14 subsurface soil samples during the hand auguring. Analytical results for soil samples collected in Area 1 are summarized in **Table 3-10.** A brief summary of ENSR's results include:

- Benzene was detected in 3 of 14 samples at concentrations ranging from 1.2 to 2,480 µg/kg.
- Ethylbenzene was detected in 4 of 14 samples at concentrations ranging from 5.5 to 485 µg/kg.
- Toluene was detected in 2 of 14 samples at concentrations ranging from 5.9 to 15 µg/kg.
- Xylenes were detected in 6 of 14 samples at concentrations ranging from 4 to 1,060 µg/kg.
- MTBE was not detected in the 14 samples collected.
- TPH-GRO was detected in 10 of the 14 samples at concentrations ranging from 0.883 to 6.35 mg/kg.

- TPH-DRO was not detected in the 14 samples collected.

3.5.1.3 Area 1 Gore-Sorber® Passive Vapor Results

ENSR collected 14 Gore-Sorber® passive soil vapor samples in Area 1. Analytical results for Gore-Sorber® passive vapor samples collected in Area 1 are summarized in **Appendix H**. A brief summary of Gore-Sorber® analytical results follows:

- TPH was detected in the 14 samples at values ranging from 0.19 µg to 142.17 µg.
- Benzene was detected in 6 of 14 samples at values ranging from 0.03 µg to 5.92 µg.
- Ethylbenzene was detected in 4 of 14 samples at values ranging from 0.12 µg to 1.23 µg.
- Toluene was detected in 3 of 14 samples at values ranging from 0.03 µg to 0.09 µg.
- Total xylenes were detected in 6 of 14 samples at values ranging from 0.02 µg to 1.47µg.
- MTBE was detected in 1 of the 14 samples collected at a value of 0.04 µg.
- Isopentane was detected in ten of the 14 samples at values ranging from 0.02 µg to 29.80 µg.

3.5.1.4 Area 1 Emflux® Passive Vapor Results

ENSR collected 21 Emflux® passive soil vapor samples in Area 1. Analytical results for Emflux® passive vapor samples collected in Area 1 are summarized in **Appendix H**. A brief summary of Emflux® analytical results includes:

- Total aliphatic hydrocarbons were detected in 10 of the 21 samples at values ranging from 1.60 µg to 534.26 µg.
- Benzene was detected in the 21 samples at values ranging from 0.02 µg to 58.44 µg.
- Ethylbenzene was detected in 5 of the 21 samples at values ranging from 0.02 µg to 1.87 µg.
- Toluene was detected in the 21 samples at values ranging from 0.02 µg to 2.04 µg.
- Total xylenes were detected in 10 of the 21 samples at values ranging from 0.02 µg to 1.85 µg.
- MTBE was detected in 2 of the 21 samples at values of 0.02 µg and 0.02 µg.
- Isopentane was detected in the 21 samples at values ranging from 0.12 µg to 99.73 µg.

3.5.2 Area 2 Results

Soil samples were collected during the completion of the Geoprobe™ soil borings in Area 2 for passive soil sampler installation. The following sections present the field screening and laboratory analytical results for 26 soil samples collected. Boring logs are included in **Appendix A**.

3.5.2.1 Headspace Screening Results

Soil samples collected at the 26 drilling locations were screened using a PID/FID. Results of headspace readings are summarized in **Table 3-11** and included on the boring logs in **Appendix A**. The following paragraphs summarize these results.

- PID/FID readings greater than 1,000 ppm were observed in soil samples obtained from GP-1, GP-2, GP-3, GP-4, GP-5, GP-6, GP-7, GP-24, and GP-26. Nine of 26 borings had PID or FID readings greater than 1,000 ppm.

- Readings greater than 100 ppm for both the PID and FID were observed at borings GP-1, GP-2, GP-5, GP-6, GP-7, GP-24, GP-26, and GP-34.

- Lower level readings (less than 100 ppm) were noted at GP-3, GP-8, GP-9, GP-10, GP-11, GP-13, GP-14, GP-15, GP-16, GP-17, GP18, GP-19, GP-20, GP-21, GP-22, and GP-25.

3.5.2.2 Chemical Analyses

ENSR collected 29 subsurface soil samples during installation of the passive soil vapor samples in Area 2. Analytical results for soil samples collected in Area 2 are summarized in **Table 3-12**. A brief summary of ENSR's results includes:

- Benzene was detected in 21 of 29 samples at concentrations ranging from 0.8 to 55,900 µg/kg.
- Ethylbenzene was detected in 11 of 29 samples at concentrations ranging from 15.5 to 125,000 µg/kg.
- Toluene was detected in 14 of 29 samples at concentrations ranging from 3.7 to 364,000 µg/kg.
- Xylenes were detected in 20 of 29 samples at concentrations ranging from 3.9 to 535,000 µg/kg.
- MTBE was not detected in the 29 samples collected.
- TPH-GRO was detected in 11 of the 29 samples at concentrations ranging from 2.32 to 8,420 mg/kg.
- TPH-DRO was detected in 7 of the 29 samples at concentrations ranging from 25.4 to 4,390 mg/kg.

3.5.2.3 Geotechnical Analyses

Two of three geotechnical samples were analyzed for grain-size distribution, bulk density, moisture content and porosity. The third sample was analyzed for only grain size distribution. The results are summarized in **Table 3-2**.

3.5.2.4 Area 2 Gore-Sorber® Passive Soil Vapor Results

ENSR collected 25 Gore-Sorber® passive soil vapor samples in Area 2. Analytical results for Gore-Sorber® passive vapor samples collected in Area 2 are summarized in **Appendix I.** A brief summary of Gore-Sorber analytical results include:

- TPH were detected in 25 samples at values ranging from 0.02 µg to 2,967.45 µg.
- Benzene was detected in 16 of 25 samples at values ranging from 0.03 µg to 138.02 µg.
- Ethylbenzene was detected in 17 of 25 samples at values ranging from 0.03 µg to 65.25 µg.
- Toluene was detected in 14 of 25 samples at values ranging from 0.03 µg to 200.15 µg.
- Total xylenes were detected in 20 of 25 samples at values ranging from 0.02 µg to 217.79 µg.
- MTBE was not detected in the 25 samples collected.

3.5.2.5 Area 2 Emflux® Passive Soil Vapor Results

ENSR collected 23 Emflux® passive soil vapor samples in Area 2. Analytical results for Emflux® passive vapor samples collected in Area 2 are summarized in **Appendix I.** A brief summary of Emflux® analytical results include:

- Total aliphatic hydrocarbons were detected in 22 of the 23 samples at values ranging from 1.02 µg to 350.76 µg.
- Benzene was detected in 11 of the 23 samples at values ranging from 0.03 µg to 0.71 µg.
- Ethylbenzene was detected in 20 of the 23 samples at values ranging from 0.02 µg to 13.49 µg.
- Toluene was detected in 22 of the 23 samples at values ranging from 0.05 µg to 6.70 µg.
- Total xylenes were detected in 10 of the 23 samples at values ranging from 0.03 µg to 140.30 µg.
- MTBE was not detected in the 23 samples.
- Isopentane was detected in 16 of the 23 samples at values ranging from 0.02 µg to 0.50 µg.

3.6 Passive Sewer Vapor Sampling Results

Passive Gore-Sorber® samplers were installed in 28 sewer manholes within the Village beginning in January 2005. They were retrieved and replaced at approximately 2 week periods through April 2005. The analytical results for each 2-week period are summarized in tables provided in **Appendix J. Appendix J** also contains maps showing the distribution of the results for each sampling period as well as graphs showing trends in concentrations over time along various sewer alignments. Discussion of these results is provided in Section 4.3.

Analytical results for the passive samplers are given in units of mass. The reported mass of a given compound represents the mass sorbed onto the sampler during the time it was exposed to the air in the sewer manhole. It is not possible to know if the mass of a given constituent was gradually sorbed on to the sampler over the time it was deployed or if there was an event in which vapor concentrations where very high in the sewers for a short period of time and the majority of the mass was sorbed during that time. For reference, the date given for the passive sampler analytical results is the date the sampler was retrieved from the sewer manhole.

As shown on **Figure 2-9**, the Hartford sewer system north of Hawthorne Street is comprised of three secondary systems that are independent of each other and tie into the sewer main on Hawthorne Street at different locations. The secondary systems are identified using an "A", "B" or "C" prefix, which are also used for the sewer manhole numbering. System A is located west of Delmar Street and extends from Rand Avenue and flows south to Hawthorne Street where it ties in to the main at the alley located west of Delmar Street. System B extends in a straight line from north to south in the alley that parallels the west side of the railroad tracks that extend along Market Street. System C is a combined sanitary and storm sewer system and is located east of the railroad tracks between North Market Street and North Olive Street.

4.0 DISCUSSION OF RESULTS

4.1 Soil Vapor Plume Distribution

The following sections provide further discussion and conclusions regarding the soil vapor sampling results. These sections include discussion of the distribution of soil vapors, statistical evaluations of the soil vapor analytical dataset, and use of passive soil vapor samplers.

4.1.1 Soil Vapor Distribution

Soil vapor samples were collected from monitoring points located throughout north Hartford during January and February 2005 (1st Quarter 2005) sampling event. Maps have been prepared (**Figures 4-1 through 4-9**) showing the distribution of benzene, isopentane, and methane vapors within the Shallow Overburden ("A" Clay), North Olive Stratum, and the Main Stratum. In addition to soil vapor data, subslab monitoring point data collected from individual homes were used to develop vapor distribution maps for the shallow overburden ("A" Clay).

Labeled sample point locations illustrated on the maps include the number of samples (shown in parentheses) for a particular location. Multiple samples at a single location are the result of nested sample points being located within the same stratum, samples being collected on multiple dates, or multiple subslab monitoring points present in buildings. If multiple sampling points were located in the same stratum, the average concentration was used. If samples were collected on multiple dates, the average concentration was used. For mapping purposes, non-detect values were used at one-half the detection limit if the reported detection limit was less than 1,000 $\mu g/m^3$. If the reported detection limit was greater than 1,000 $\mu g/m^3$, then the data point was not utilized to create the vapor distribution maps.

An important note is that detailed information regarding the site geology is not presented or summarized in this report. The geologic nomenclature used within this report is consistent with that used in previous reports and discussions with the U.S. EPA. The geologic model for the site is being updated and has been presented to the U.S. EPA. However, detailed presentation of the geologic model and revised nomenclature referenced in previous meetings will be included in the CSM Report being prepared for submittal at a later date. Some of the newer terminology that has been presented in previous meetings, such as the "A" Clay for the Shallow overburden, is used in this report for reference only.

The following sections discuss the distribution maps by stratum.

4.1.1.1 Shallow Overburden ("A" Clay)

Figures 4-1, 4-2 and 4-3 present the vapor distribution maps for benzene, isopentane and methane within the Shallow Overburden ("A" Clay), which represents the surface clay that generally occurs within the upper 10 ft across the entire Site. The depth of the sampling points in this stratum ranged from 4.5 ft bgs to 14.5 ft bgs. Vapor analytical results for subslab monitoring points were also used to generate the distribution maps for the Shallow Overburden ("A" Clay). Subslab monitoring points are installed at the interface of the base of the basement floor (typically a concrete slab) and the subsurface. Most range in depth from approximately 5 to 6 ft bgs and are therefore considered representative of vapors within the Shallow Overburden ("A" Clay).

Benzene. Benzene distribution within the Shallow Overburden ("A" Clay) is shown on **Figure 4-1**. A total of 332 data points were used to generate this map. Approximately two-thirds of the investigation area is dominated by generally low benzene concentrations (less than 100 $\mu g/m^3$). The highest benzene concentrations (on the order of 1,000,000 $\mu g/m^3$) appear to be clustered within three areas of the Site. These include the Hartford Community Center area; the area where the depth to the Main Stratum is shallowest (from Date south to Forest between N. Market and N. Delmar); and the area along N. Olive between E. Date and E. Forest. In addition, areas along W. Cherry, W. Date, E. Date, and E. Forest appear to show lower benzene concentrations that may be related to operation of soil vapor extraction wells (formerly called vapor control borings [VCBs]) along these streets.

Isopentane. Isopentane distribution within the Shallow Overburden ("A" Clay) is shown on **Figure 4-2**. A total of 372 data points were used to generate this map. As shown on **Figure 4-2**, the overall distribution of isopentane is very similar to the benzene vapor distribution. However, isopentane is present at higher concentrations compared to benzene, in particular in the area north of Birch Street and extending north of Rand Avenue. Although data points are limited north of Rand Avenue (3 data points total), the results indicate isopentane at concentrations of 100,000,000 $\mu g/m^3$. As with the benzene distribution, lower isopentane concentrations appear to be present around vapor extractions along W. Cherry, W. Date, E. Date and E. Forest.

Methane. Methane distribution within the Shallow Overburden ("A" Clay) is shown on **Figure 4-3**. A total of 352 data points were used to generate this map. The distribution of methane within the Shallow Overburden ("A" Clay) appears to be more localized in specific areas compared to the benzene and isopentane distribution maps. Soil vapor containing up to 70 percent methane is present along N. Olive between E. Date and E. Watkins; between E. Birch and E. Cherry; and in the area north of W. Birch and around the Hartford Community Center.

4.1.1.2 North Olive Stratum

Figures 4-4, 4-5 and 4-6 present the vapor distribution maps for benzene, isopentane and methane within the North Olive Stratum. The North Olive Stratum is a silt unit that is capped by the Shallow

Overburden ("A" Clay) and appears capable of accumulating and trapping vapors within it. The North Olive Stratum does not occur site-wide. It is present in areas primarily north of Forest Street and along North Olive Street and Old Saint Louis Road, extending north to Rand Avenue. It merges with the Main Stratum within the central portion of the site where the Main Stratum is shallowest. The depth of the sampling points ranged from 6.1 ft bgs to 17.1 ft bgs.

Benzene. Benzene distribution within the North Olive Stratum is shown on **Figure 4-4**. A total of 72 data points were used to create this map. As shown on **Figure 4-4**, benzene vapor concentrations are generally low (less than 100 $\mu g/m^3$) along the western portion of the Site with the exception of a localized higher concentration at MP-38 located near Old Saint Louis Road between W. Cherry and W. Date. Benzene concentrations in the North Olive Stratum are greater than 10,000 $\mu g/m^3$ along North Olive Street and around the Hartford Community Center.

Isopentane. Isopentane distribution within the North Olive Stratum is shown on **Figure 4-5**. A total of 75 data points were used to create this map. The isopentane vapor distribution within the North Olive Stratum is similar to benzene vapor distribution. However, isopentane is present at higher concentrations compared to benzene, in particular in the areas north of W. Birch and E. Cherry and along North Olive. Higher isopentane concentrations are also observed at MP-38 and MP-48 along the western margin of the Site.

Methane. Methane distribution within the North Olive Stratum is shown on **Figure 4-6**. A total of 76 data points were used to generate this map. The distribution of methane within the extent of the North Olive Stratum is similar to the distribution in the Shallow Overburden ("A" Clay). Concentrations of nearly 70 percent methane are present along N. Olive between E. Date and E. Watkins and in the area around the Hartford Community Center.

4.1.1.3 Main Stratum

Figures 4-7, 4-8 and 4-9 present the vapor distribution maps for benzene, isopentane and methane within the Main Stratum. The Main Stratum occurs site-wide and is lower in stratigraphic section than the North Olive Stratum and separated from the North Olive Stratum by various clay layers. It is a silt and sand stratum that is saturated at depths of approximately 30 to 35 ft bgs across the Site. The extent of the Main Stratum is limited in the northern area of the Site (approximately north of Arbor Street) where it is confined by greater thicknesses of overlying clay strata and is fully saturated. Considerable unsaturated thicknesses (up to 15 ft) of the Main Stratum are present within the central areas of the Site. The depth of the sampling points ranged from 12 ft bgs to 34 ft bgs.

Benzene. Benzene distribution within the Main Stratum is shown on **Figure 4-7**. A total of 134 data points were used to create this map. As shown on **Figure 4-7**, benzene concentrations within the Main Stratum are very low (less than 10 $\mu g/m^3$) within the buffer zone area located in the southern and southwestern portion of the Site. A sharp transition to higher benzene concentrations occurs within the

Main Stratum to the north and northeast. This sharp transition closely agrees with the extent of the previously defined residual free-phase hydrocarbon plume (Clayton, 2004).

Benzene concentrations appear to be lower in proximity to existing soil vapor extraction wells that have historically operated in areas along W. Cherry, E. Date, E. Forest, and W. Cherry Streets, and in these areas. Specific areas include MP-34 located between HSVE-3 and HSVE-4 (locations shown on **Figure 2-1**) on W. Cherry; MP-44 located near HSVE-7 on E. Date; MP-54 located near HSVE-11 on E. Elm; and MP-13 located near HSVE-12 on E. Forest.

Isopentane. Isopentane distribution within the Main Stratum is shown on **Figure 4-8**. A total of 135 data points were used to create this map. As shown on **Figure 4-8**, the isopentane vapor distribution within the Main Stratum is similar to the benzene vapor distribution. A minor difference is that isopentane appears to extend further west along Old Saint Louis Road between W. Cherry and W. Date. Observations similar to the benzene distribution can be made regarding lower isopentane concentrations around SVE wells on W. Cherry, E. Date, E. Elm and E. Forest.

Methane. Methane distribution within the Main Stratum is shown on **Figure 4-9**. A total of 138 data points were used to generate this map. As indicated in the figure, the majority of the Main Stratum is not impacted with methane. Methane at concentrations up to 65 percent is generally present along the eastern and northeastern Site boundaries. This includes N. Olive north of E. Forest and the area between N. Delmar and N. Market north of Cherry Street.

4.1.2 Soil Vapor Data Statistical Analysis

Statistical calculations have been performed on the soil vapor analytical data. The objectives of the statistical data analysis are to:

- Help with the assessment of the overall data set and data distribution;
- Help identify potential relationships between compounds in the dataset; and
- Try to identify potential source area areas.

The following sections summarize the data set that was used, statistical calculations that were performed, results and conclusions of the statistical data analysis. All supporting table and graphs are contained in **Appendix K.**

Data Used - Statistical calculations were performed using soil vapor and sub-slab vapor data available as of April 22, 2005. Other vapor samples (e.g. sewer vapor, indoor and outdoor air) were not included. Sampling dates ranged from March 17, 2004 to April 4, 2005. Certain data were excluded, such as data from SVE pilot testing, and data collected during the comparison of VMP and MP samples.

Results from field duplicates were averaged with their parent samples. Non-detect results with elevated detection limits (>1,000 μg/m^3) were omitted. For non-detect values with lower detection limits, a surrogate value of one-half the detection limit was used. Sub-slab samples have been collected many times at the Hartford Community Center. To reduce the bias that could be caused by the large numbers of these samples, results at each location were averaged over time (arithmetic average). That is, one average value was used at each HCC sub-slab monitoring point.

Statistics were performed on soil vapor results for benzene, hexane, and isopentane. These results were also log-transformed to create a total of six variables evaluated (benzene, natural log of benzene, hexane, natural log of hexane, isopentane, and natural log of isopentane,).

Statistics were calculated for this dataset as a whole. In addition, statistics were also calculated for each of the two significant sampling events: August-September 2004 (July 29 to Sept 3) and January-February 2005 (Jan 6 to Mar 31).

Statistical Calculations - The following calculations were performed:

- Summary statistics (number of observations, minimum, maximum, mean, standard deviation)
- Shapiro-Wilk test for normality
- Pair-wise correlations among all variables
- Cumulative frequency plots
- Histograms
- Scatterplots

Calculations were performed using Excel spreadsheets and/or Stata® statistical software.

Statistical Results - The results of statistical calculations and generated graphs are included in **Appendix K.** The following observations and conclusions are based on these calculations.

- Concentrations range over many orders of magnitude. Because of this condition, graphs and other visual representations of the data are presented using log-scales. Without using a log-scale, all the data at the lower orders of magnitude cannot be perceived, as the higher orders of magnitude dominate the scale.

- The measured concentrations for benzene, hexane, and isopentane in soil vapor are reasonably well correlated.

Variables	Correlation Coefficient
Benzene - isopentane	0.870
Benzene - hexane	0.843
Isopentane - hexane	0.867
ln(benzene) - ln(isopentane)	0.923
ln(benzene) - ln(hexane)	0.955
ln(isopentane) - ln(hexane)	0.977

For the raw data (non-transformed), the above correlation coefficients represent a reasonably good correlation for environmental data (1.0 representing a perfect correlation). For the transformed data, correlation coefficients represent very good correlation between these constituents. These correlation coefficients characterize the correlation across the entire concentration scale; it is possible that over smaller concentration ranges, correlations may not be as good.

To examine these correlations visually, scatterplots were generated (included in **Appendix K**). These show a very strong relationship between isopentane and hexane, especially at greater concentrations. At lower concentrations for hexane, and for all ranges of benzene, while the overall correlation remains strong, there is more drift away from a perfect correlation. While use of surrogate values for non-detect results may cause some of this variation at lower concentrations, it cannot account for all.

- None of the datasets are normally or lognormally distributed (Shapiro-Wilk W is less than critical values; critical values for all datasets greater than 0.96). However, in general, the data more closely approximate a log-normal distribution compared to a normal distribution (i.e., Shapiro-Wilk W is greater for log-transformed data). Therefore, additional evaluations used log-transformed data.

Variable	Shapiro-Wilk W statistic
Benzene	0.361
Hexane	0.320
Isopentane	0.354
ln(benzene)	0.888
ln(hexane)	0.864
ln(isopentane)	0.876

- Histograms and cumulative frequency plots were generated to visually evaluate the data distributions. These are included in **Appendix K.** Histograms and cumulative frequency show the same information (frequency of sample results) in different ways. Both are provided. Examination of these graphs for log-transformed isopentane, benzene, and hexane show graphically that the datasets are not normally distributed.

- The histogram for ln(isopentane) shows two large peaks and one smaller one. The primary peak, representing the most sample results, occurs at a high concentration range (approximately 15.5 to 18.5 or 5,400,000 to 108,000,000 μg/m^3). A secondary peak occurs at a low concentration range (approximately 1 to 4 or 3 to 55 μg/m^3), which includes many non-detect values. There is also a minor peak at mid-range (approximately 8 to 10 or 3,000 to 22,000 μg/m^3). Histograms for benzene and hexane are similar, but the primary peak for these constituents represents low values, primarily non-detects. The secondary peak is at high concentration ranges. The third concentration range with a large number of results is much less prominent for these two constituents.

  It is not unexpected to see two peaks, a low-range and a high-range, in environmental data. This is typically due to biased sampling of source areas and plume edges. Source areas and locations with high concentrations (the high range) tend to be sampled more often. Many sample locations are often used to define the edges or limits of an area of concern (low concentration range).

- Histograms and cumulative frequency plots were also developed for individual sampling events, to evaluate whether there may be temporal influences. Two sampling events have taken place where a large number of samples were collected across much of this site. These are August-September 2004 (July 29 to Sept 3) and January-March 2005 (Jan 6 to Mar 31). Summary statistics and distributions were evaluated for both of these individual events. Results are included in **Appendix K**.

- For the Aug-Sept 2004 sampling event, the number of samples (n) ranged from 187 to 210 for the three constituents. Calculated Shapiro-Wilk statistics are slightly greater than for the entire dataset, indicating a better match to a log-normal distribution. However, the values remain below the critical values, so the data are not truly lognormally distributed. This is confirmed by inspection of the cumulative frequency plots and histograms. For this sampling event, the two peaks at high and low concentration ranges are present. However, the mid-range peak is much more prominent. This suggests that the underlying data are log-normally distributed, which is supported by the straight-line in the center of the cumulative frequency plots. However, the biased sampling at source areas and plume edges has added a great deal of data at the high and low concentration ranges.

- For the Jan-Mar 2005 sampling event, the number of samples (n) ranged from 531 to 560 for the three constituents. Calculated Shapiro-Wilk statistics are slightly lower than for the entire dataset. These datasets include more than 500 samples, which is the majority of the approximately 800 samples that make up the complete soil vapor dataset. Therefore, the histograms and cumulative frequency plots for this event are very similar to those for all data.

Conclusions – The following conclusions can be drawn from the basic statistical calculations that have been performed. While calculations and plots show that the datasets are not normally distributed (nor

log-normal), this is most likely due to biased sampling of source areas (high concentrations) and plume edges (low concentrations and non-detects). Results for benzene, hexane, and isopentane are very well correlated with each other over the wide range of observed concentrations. These statistical analyses do not seem to provide any insight into identifying potential sources or source areas.

4.2 Passive Soil Vapor Sampling

Both Gore-Sorber® and Emflux® samplers rely on passive sorption of hydrocarbons from soil vapor into the sampler medium to assess the relative presence of hydrocarbon vapors in the subsurface. This sampling mechanism requires that the soil vapor be in direct contact with the sampler. Such soil vapors can come into contact with the sampler via either diffusion or advective transport. False-negative results obtained with the passive samplers suggest that there are limitations to their application at the site. The technical memoranda presented in Appendices H and I provide a preliminary discussion of some potential reasons for these results.

Passive soil vapor sampling could prove useful in areas of insufficient data or as a reconnaissance tool in areas where shallow soil vapor data does not exist. However, PID and FID screening data have proven similarly useful as a reconnaissance tool, and the existing network of vapor monitoring points appears to provide adequate coverage within the part of the Village of Hartford where hydrocarbon vapors are a concern. Thus, based on our current understanding of sources and the vapor plume within the village, passive soil vapor sampling appears to have limited applicability.

4.3 Passive Sewer Vapor Sampling

In order help evaluate the passive sewer sampling results presented in Section 3.6 and **Appendix J,** the average daily mass of TPH, BTEX and benzene sorbed onto the sampler was calculated. The average daily mass was determined by summing the mass of a given constituent sorbed onto the passive samplers over the approximate 4 month period they were deployed, and dividing the total mass by the total number of days the sorbers were exposed to sewer vapors.

The distribution of the average daily sorbed mass of TPH, BTEX and benzene is mapped on **Figure 4-10** for each manhole sampled. Looking at the average TPH results, the average daily sorbed mass ranged from 0.83 µg TPH per day at manhole C1A at the east end of East Maple Street to 6.39 µg TPH per day at manhole A10 (Sewer A) located at the intersection of Rand Avenue and Old St. Louis Road. Other areas where petroleum constituents appeared to sorb onto the passive samplers at higher rates (greater than 4 µg TPH per day) were at manholes A8.5C (sewer C) and A8.5A (sewer A) located on West Arbor Street; manholes C2A on East Watkins, C6A on East Birch and C7A on East Cherry (all are near North Olive Street); and manhole C1 at the intersection of North Market and East Maple. The locations around the Community Center and near North Olive Street are also near areas where shallow soils are impacted, as identified in the ROST investigation (Clayton, April 2004). The location at C1 does not appear the correlate to known shallow sources.

Overall, the passive samplers appeared to sorb the greatest mass of hydrocarbons during the period between December 30, 2004 to January 13, 2005. This appears to correlate to elevated LEL readings in the sewers on Arbor Street and odor complaints reported at the Community Center on January 4, 5 and 6, 2005. **Figure J-1** in **Appendix J** shows the passive sampler results for TPH around the Community Center. The January 13, 2004 results represent the time period between December 30, 2004 and January 13, 2005. Elevated LEL readings in the sewers and correlation to the passive sampler results is also reflected on **Figure J-3** in **Appendix J**, which compares the LEL readings and passive sampler TPH values from sewer manhole A8.5B (sewer D) located on West Arbor Street.

Overall, the results of the passive sewer vapor surveys appear to indicate that hydrocarbon vapors are present in the sewers at higher concentrations near shallow sources along North Olive Street and around the Community Center. Given the integrity of the sanitary sewer system, it appears that there are numerous breaches that could potentially allow vapors to enter. It should be noted that the passive samplers do not sorb methane, so they are not useful at measuring occurrences of methane in the sewers or elevated LEL conditions caused by the presence of methane.

At this time, the passive sewer vapor sampling will be discontinued. While the data does appear to correlate to and confirm the accumulation and flow of petroleum hydrocarbon vapors through the sewers, additional data collection will not significantly improve our understanding and development of the CSM.

5.0 REFERENCES

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ENSR Corporation, December 2004. CSM Investigation Work Plan. Prepared for the Hartford Working Group. ENSR Document No. 01005-093-351.

U.S. Environmental Protection Agency, November 29, 2002. OSWER Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soil (Subsurface Vapor Intrusion Guidance). Docket ID No. RCRA 2002-0033.

FIGURES

LEGEND:

- GROUNDWATER MONITORING WELLS (HB, HMW, P, SP, RB)
- RECOVERY WELL (RW)
- SOIL VAPOR EXTRACTION WELL (HSVE)
- SOIL VAPOR MONITORING PORTS (VP, VMP)
- VS/S/M/D VERY SHALLOW/SHALLOW/MEDIUM/DEEP
- SOIL VAPOR MONITORING PROBES (MP)
- A/B/C/D VERY SHALLOW/SHALLOW/MEDIUM/DEEP
- PRAXAIR SAMPLING POINT (PA)
- PETROLEUM PIPELINE CORRIDORS (UNDERGROUND)
- INDUSTRIAL SEWER CORRIDOR (UNDERGROUND)
- NATURAL GAS PIPELINE CORRIDOR (UNDERGROUND)

SCALE IN FEET
0 60 120 240

DRAFT WORK IN PROGRESS

FIGURE ADAPTED FROM CLAYTON GROUP SERVICES

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CHECKED BY: DS	
DATE: 4/19/05	
REVISED: 4/27/05	
PROJECT NO.: 01005-093-351	

WELL FIELD, SOIL VAPOR EXTRACTION, AND SAMPLING PORT LOCATION MAP
THE HARTFORD AREA HYDROCARBON PLUME SITE
THE HARTFORD WORKING GROUP
HARTFORD, IL

FIGURE 2-1

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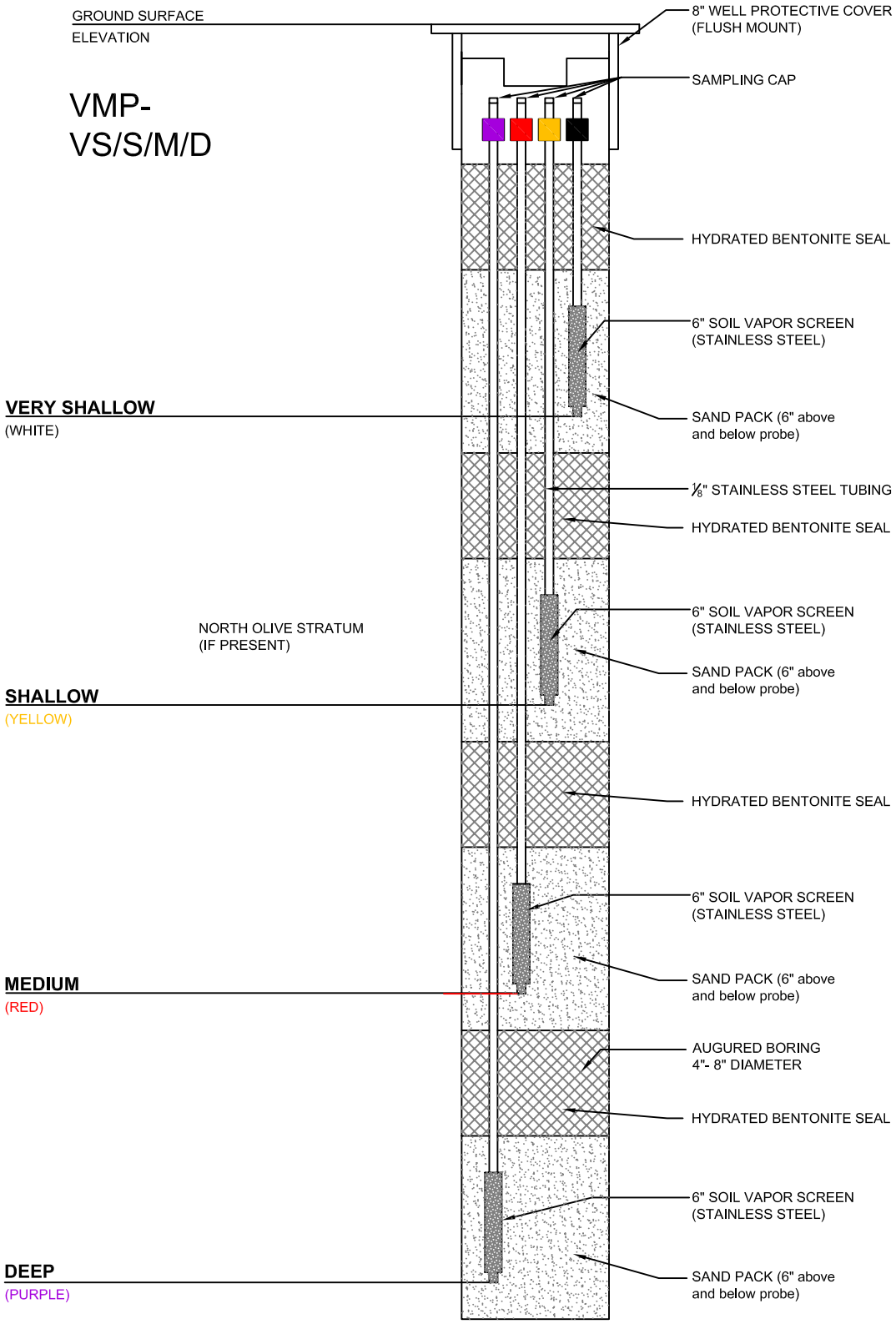
U:\Cad_Drive\01000-019990\1005\093\CSM Report\Section III\1005-093_Fig 2-1_Soil Vapor Extraction & Sampling Port Locations_05_04.dwg



NOTES: DEPTH OF BOREHOLE AND PLACEMENT OF VAPOR SCREENS DEPEND ON SUBSURFACE CONDITIONS.

FIGURE 2-2

TYPICAL NESTED SOIL VAPOR MONITORING
PORT CONSTRUCTION
HARTFORD, ILLINOIS

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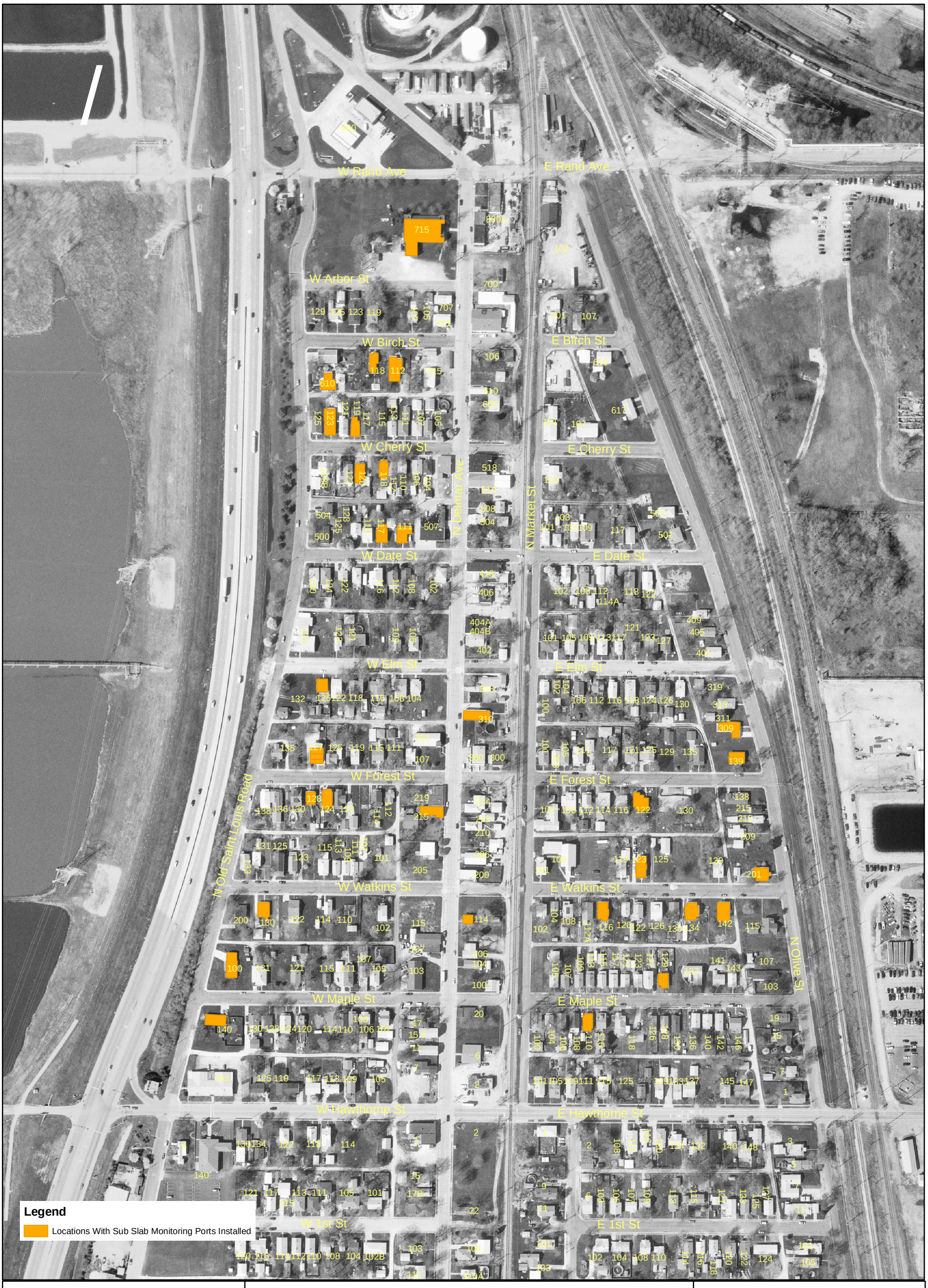
U:\Cad_Drive\01000-01999\1005\093\CSM Report\Section III\1005-093_Fig 2-2 Typical Nested Soil Vapor Monitoring Port.dwg



0 100 200 400 Feet

Drawn by: MG	Date: 05/03/05	Project No. 01005-093-351

SSMP INSTALLATION LOCATION MAP
HARTFORD WORKING GROUP
HARTFORD, IL

FIGURE 2-3A

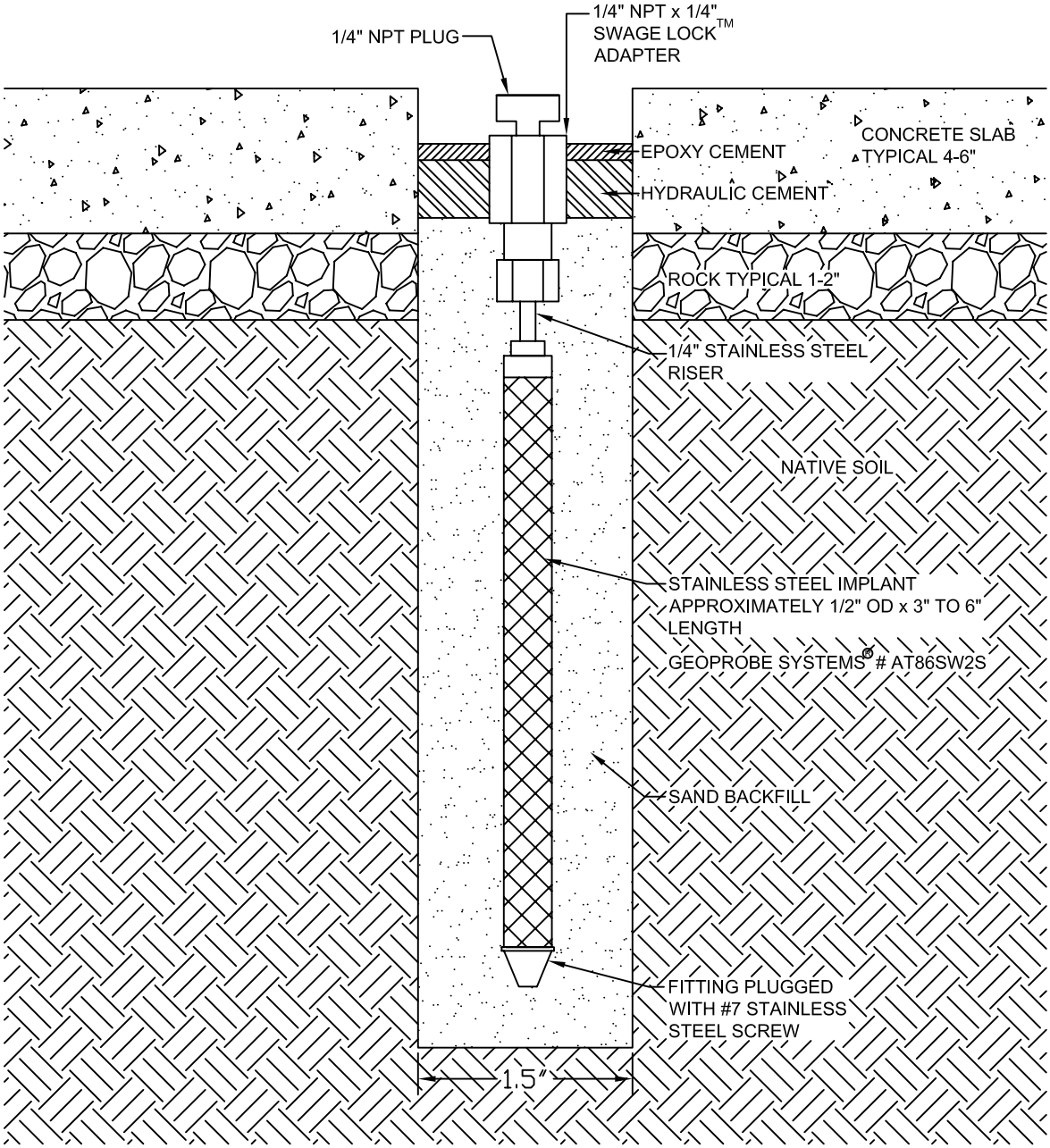


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FIGURE 2-3B

SUB-SLAB MONITORING POINT CONSTRUCTION DETAIL HARTFORD, IL

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APPROVED BY: LH	REVISED:	01005-093

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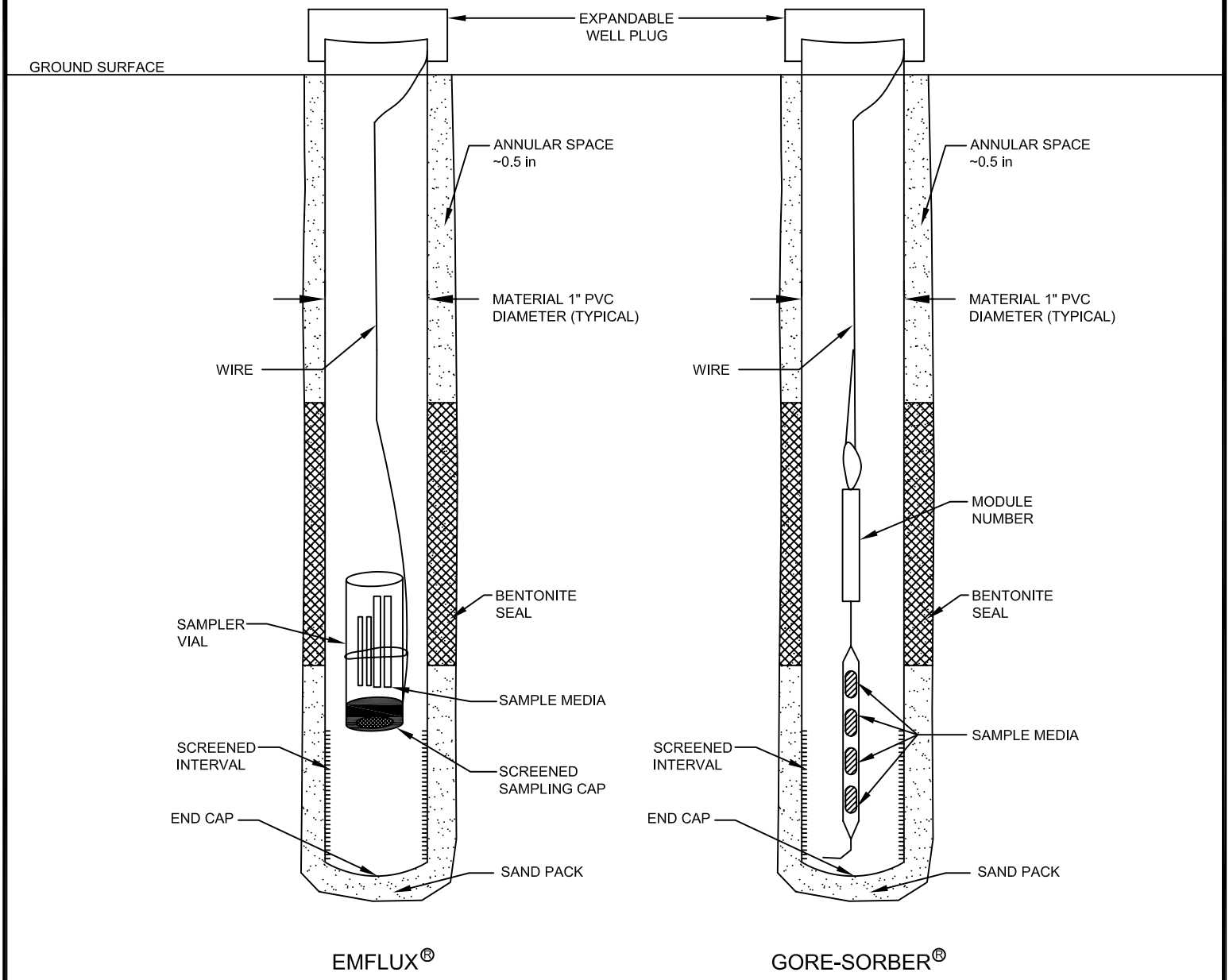

DRAFT
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FIGURE 2-4

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AREA 1 - TYPICAL PASSIVE SOIL VAPOR
SAMPLER INSTALLATION
HARTFORD, ILLINOIS

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APPROVED BY: JLP	REVISED: 5/3/05	01005-093-351

U:\Cad_Drive\01000-01999\1005\093\CSM Report\Section III\1005-093_Fig 2-4 Typical Passive Soil Vapor SAmpler Installation.dwg

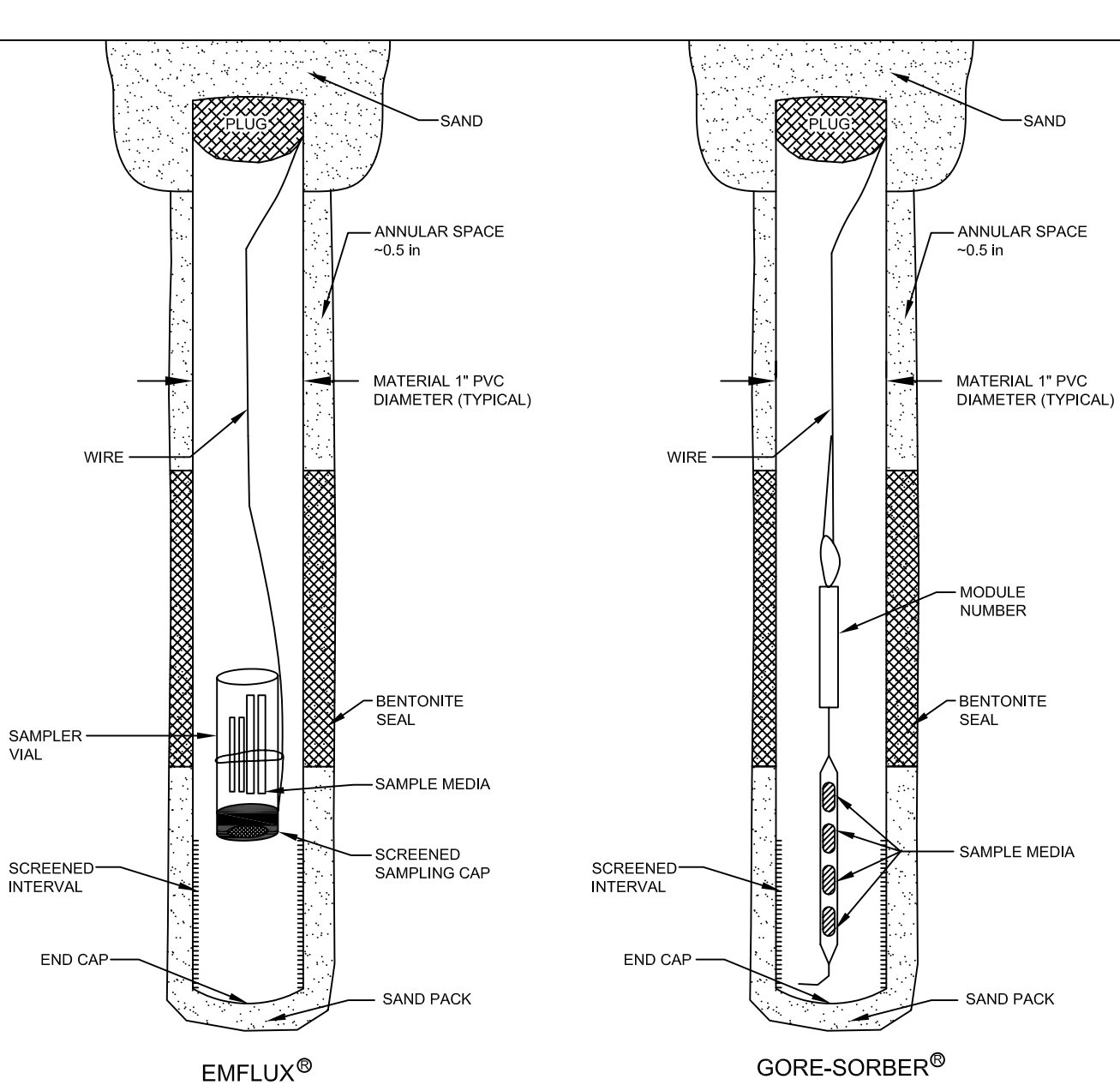

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FIGURE 2-5

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AREA 2 - TYPICAL PASSIVE SOIL VAPOR SAMPLER INSTALLATION
HARTFORD, ILLINOIS

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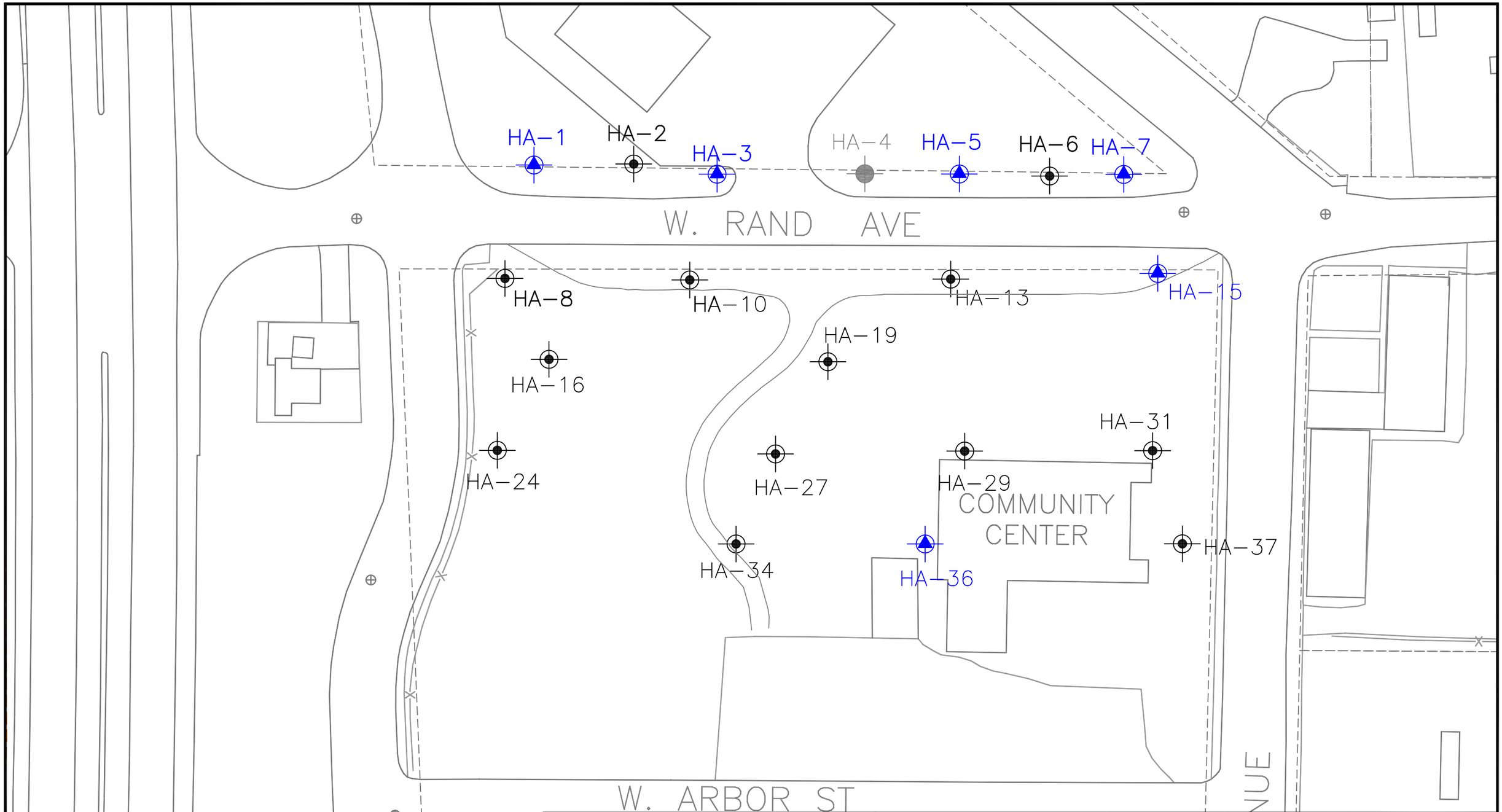
APPROVED BY: JLP	REVISED: 3/5/05	01005-093-351

U:\Cad_Drive\01000-01999\1005\093\CSM Report\Section III\1005-093_Fig 2-5 Typical Passive Soil Vapor SAmpler Installation(Miniwell).dwg



LEGEND:

- HAND AUGER LOCATION (GORE SORBER)
- HAND AUGER LOCATION (EMFLUX)
- HAND AUGER LOCATION (GORE SORBER & EMFLUX)

DRAFT WORK IN PROGRESS

SCALE IN FEET
0 50 100
1" = 50'

N

DRAWN: JG	DATE: 12/13/04	PROJECT
APPROVED: JLP	REVISED: 5/03/05	01005-093

AREA 1 - PASSIVE SHALLOW SOIL VAPOR SAMPLING LOCATIONS HARTFORD, IL

FIGURE 2-6

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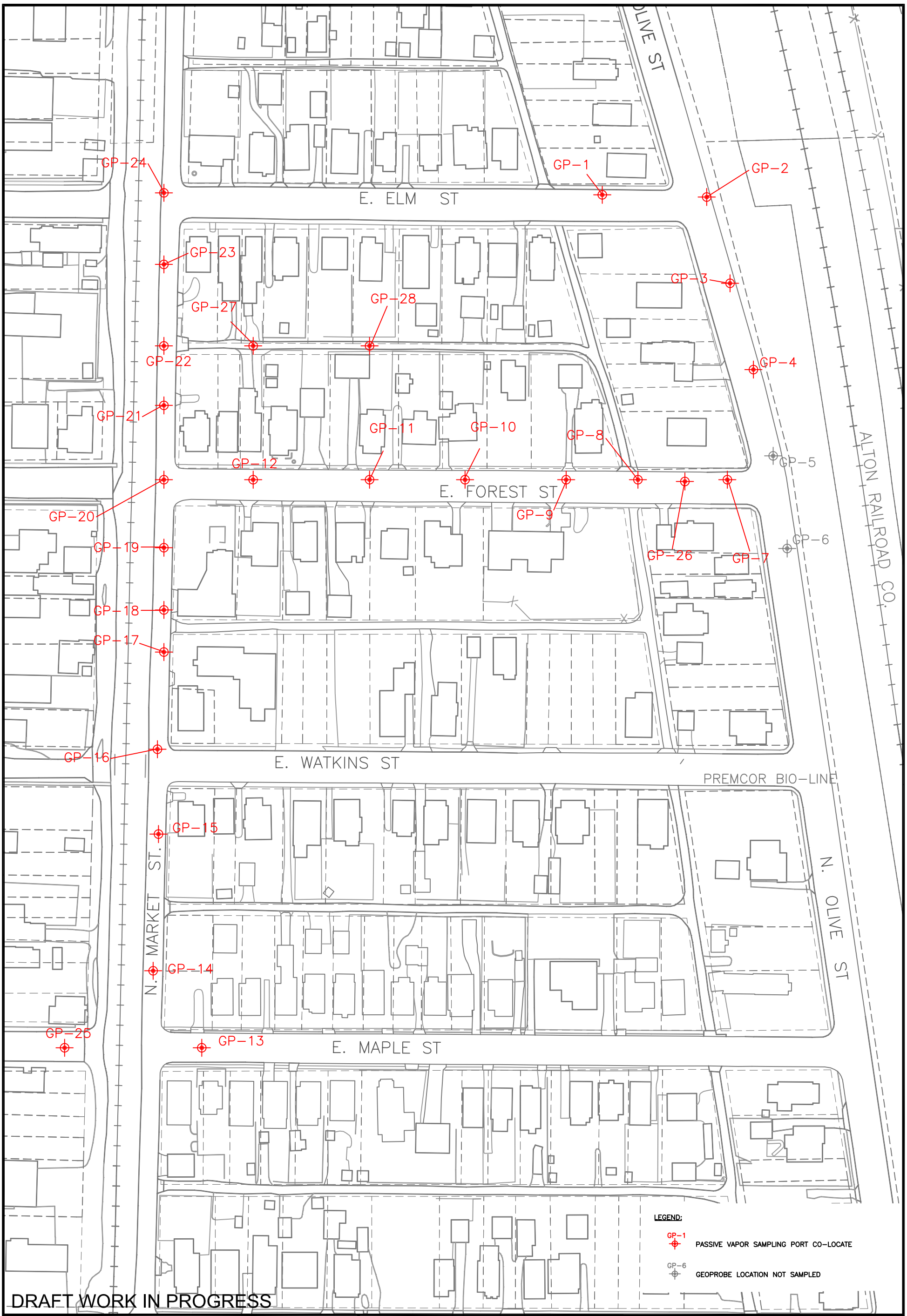
U:\Cad_Drive\01000-01999\1005\093\CSM Report\Section II\01005-093_Fig 2-6 Passive Soil Gas Sampling Locations.dwg



SCALE IN FEET

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1" = 100'

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APPROVED: JLP/DS	REVISED: 2/11/05	01005-093-351

AREA 2 - PASSIVE SOIL VAPOR SAMPLING LOCATIONS
JANUARY 2005
HARTFORD, ILLINOIS

FIGURE 2-7

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U:\Cad_Drive\01000-01999\1005\093\CSM Report\Section II\1005-093_Fig 2-7 Passive Soil Sampling Locations.dwg

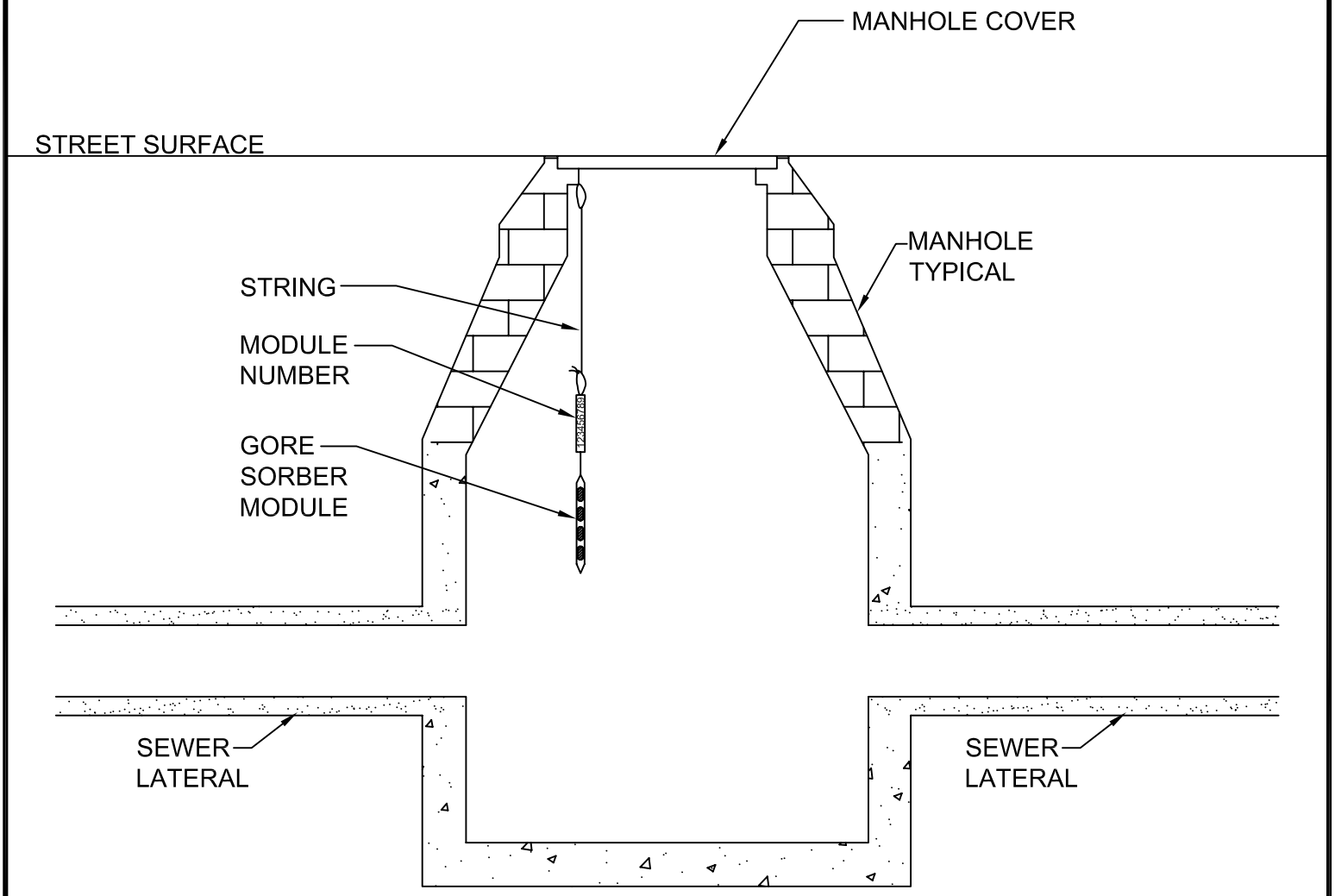

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FIGURE 2-8

TYPICAL GORE-SORBER
SAMPLER INSTALLATION
IN SEWER MANHOLE
HARTFORD, ILLINOIS

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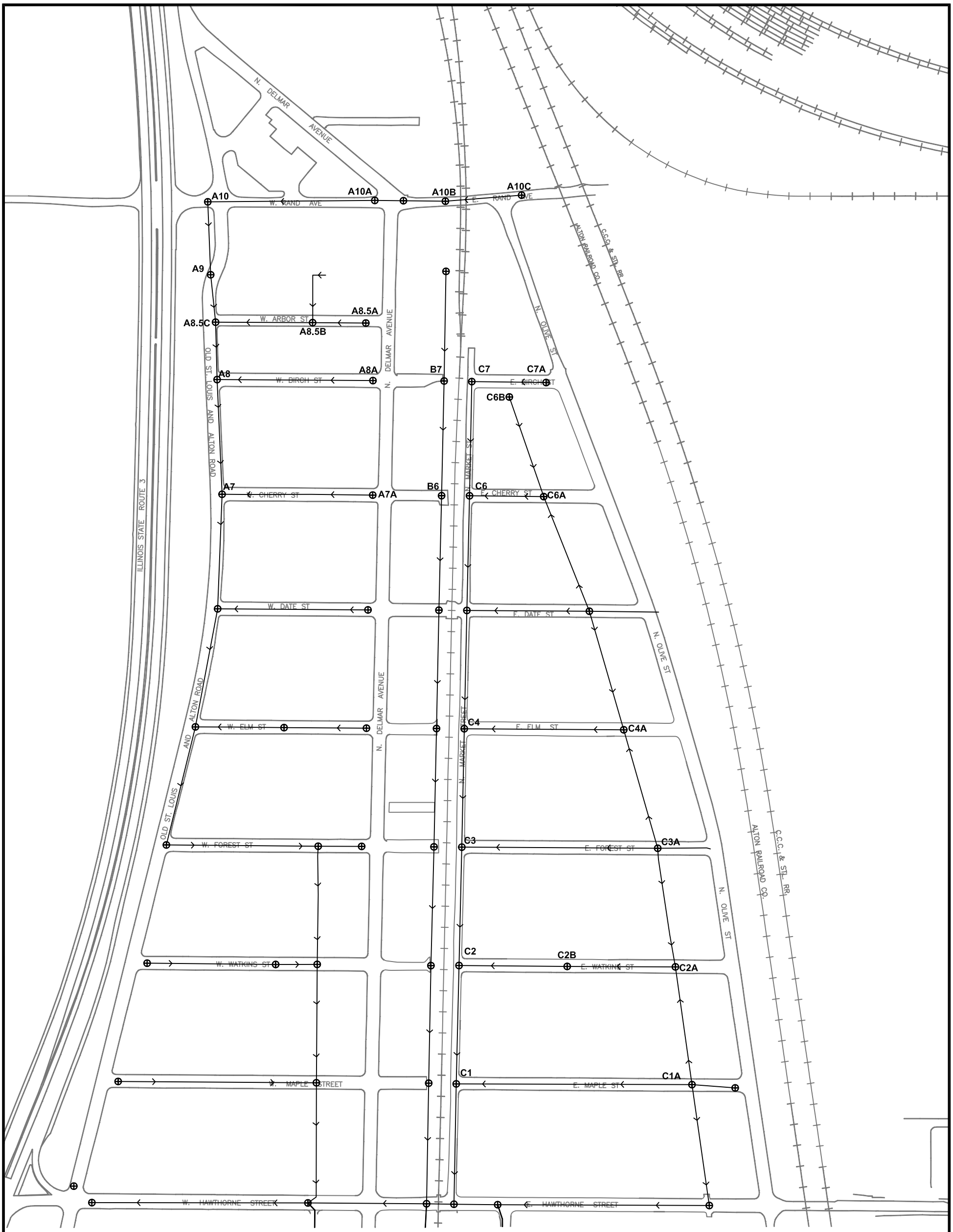
APPROVED BY: JLP	REVISED: 5/3/05	01005-093-351

U:\Cad_Drive\01000-01999\1005\093\CSM Report\Section II\1005-093_Fig 2-8 Typical Gore-Sorber Installation in MH_05_03.dwg



LEGEND:

- C2 — SAMPLED VILLAGE SEWER MANHOLE LOCATION IN PASSIVE SAMPLING NETWORK
- VILLAGE SEWER MANHOLE LOCATION
- SEWER ALIGNMENT SHOWING FLOW DIRECTION

PHYSICAL FEATURES ADAPTED FROM CLAYTON GROUP SERVICES GIS DATABASE

DRAFT WORK IN PROGRESS

SCALE IN FEET

0 250 500

DRAWN: JG	DATE: 4/4/05	PROJECT NO.
APPROVED: JLP	REVISED: 4/27/05	01005-093-351

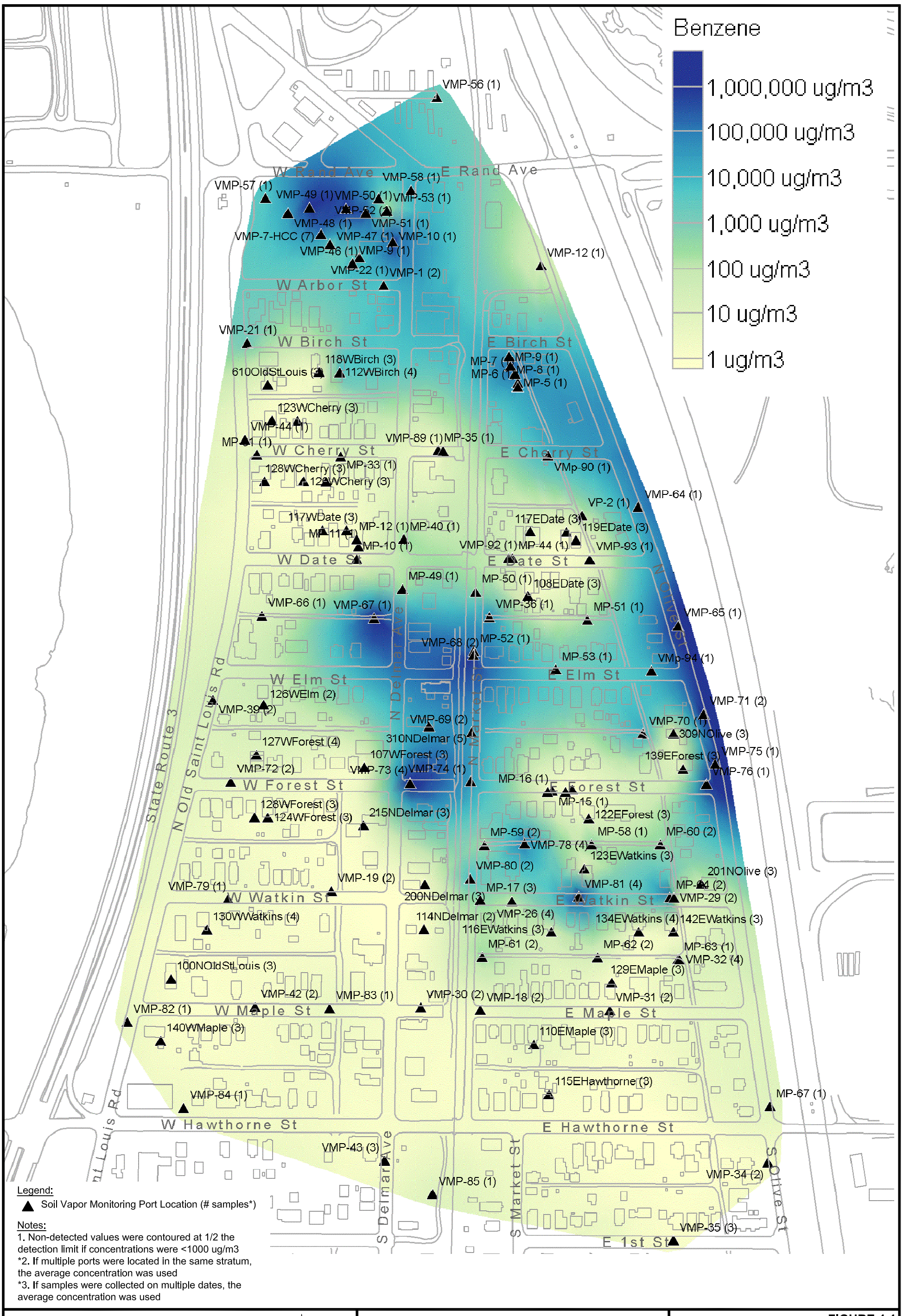
PASSIVE SEWER SAMPLING LOCATION MAP
THE HARTFORD AREA HYDROCARBON PLUME SITE
THE HARTFORD WORKING GROUP
HARTFORD, IL

FIGURE 2-9

ENSR INTERNATIONAL

CONSULTING • ENGINEERING • REMEDIATION

U:\Cad_Drive\01000-01999\1005\093\CSM Report\Section III\1005-093_Fig 2-9 Passive Sewer Vapor Sampling Locations.dwg



Legend:

▲ Soil Vapor Monitoring Port Location (# samples*)

Notes:

1. Non-detected values were contoured at 1/2 the detection limit if concentrations were <1000 ug/m3
*2. If multiple ports were located in the same stratum, the average concentration was used
*3. If samples were collected on multiple dates, the average concentration was used

SCALE IN FEET

0 250 500

N

DRAWN: JG	DATE: 5/12/05	PROJECT NO.
APPROVED: LB	REVISED:	01005-093-351

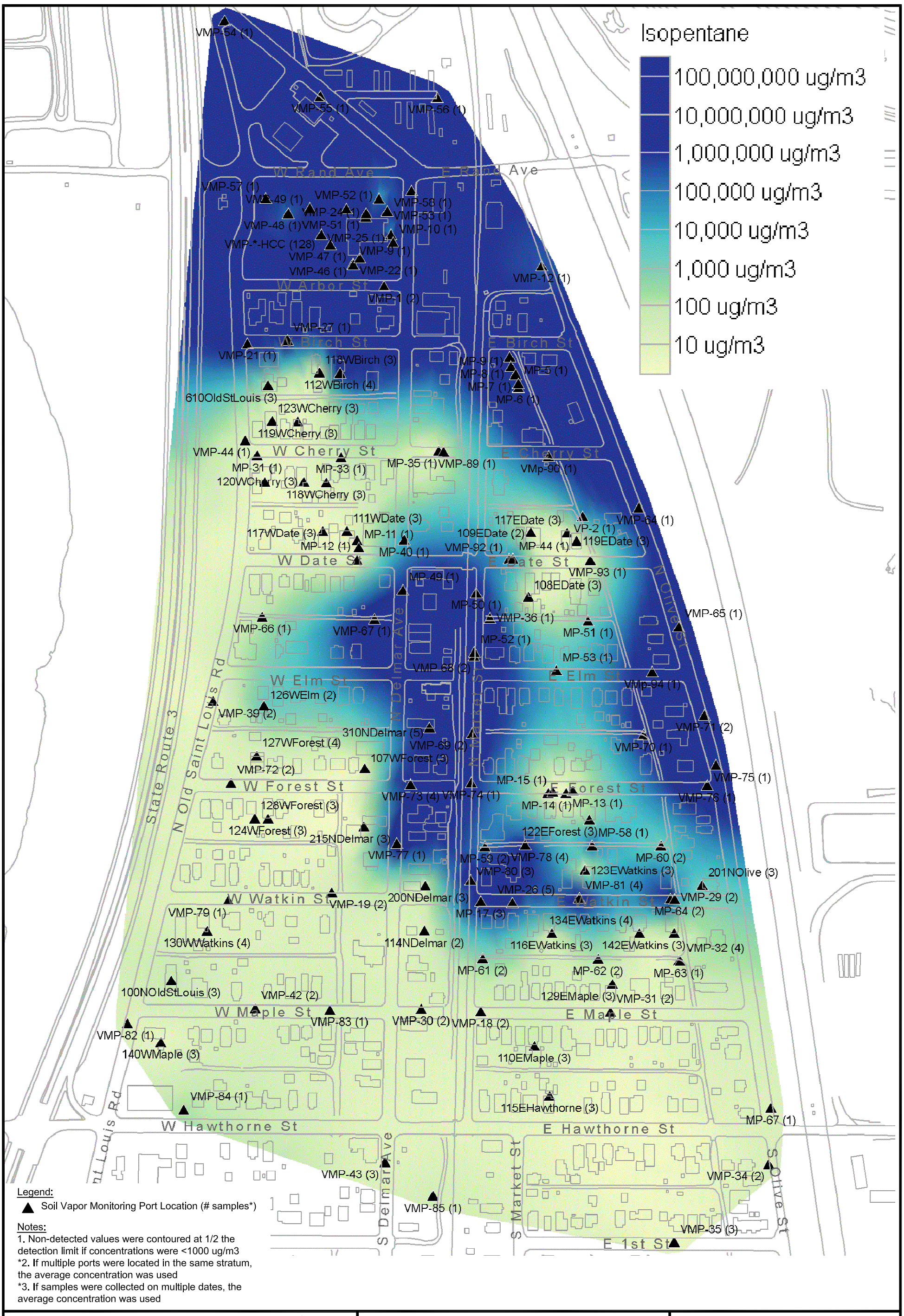
BENZENE SOIL VAPOR DISTRIBUTION MAP
SHALLOW OVERBURDEN ("A" CLAY)
HARTFORD, ILLINOIS

FIGURE 4-1

ENSR INTERNATIONAL

CONSULTING • ENGINEERING • REMEDIATION

U:\Cad_Drive\01000-01999\1005\093\CSM Report\Section IV\1005-093_Fig 4-1 Benzene Soil Distribution Shallow (A-CAY).dwg



SCALE IN FEET

0 250 500

N

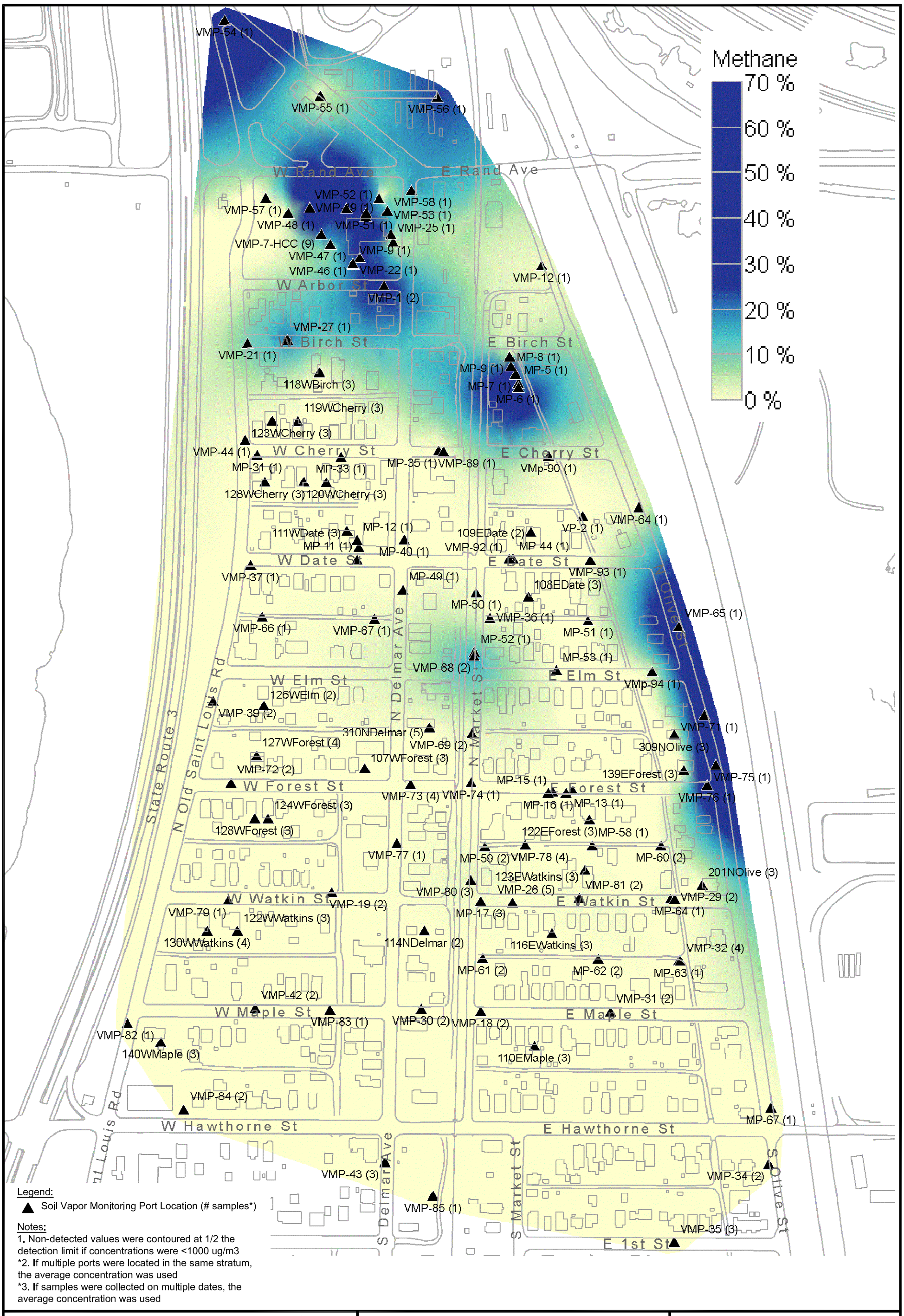
DRAWN: JG	DATE: 5/12/05	PROJECT NO.
APPROVED: LB	REVISED:	01005-093-351

ISOPENTANE SOIL VAPOR DISTRIBUTION MAP
SHALLOW OVERBURDEN ("A" CLAY)
HARTFORD, ILLINOIS

FIGURE 4-2

ENSR INTERNATIONAL
CONSULTING • ENGINEERING • REMEDIATION

U:\Cad_Drive\01000-01999\1005\093\CSM Report\Section IV\1005-093_Fig 4-2 Isopentane Soil Distribution Shallow (A CAY).dwg



SCALE IN FEET

0 250 500

N

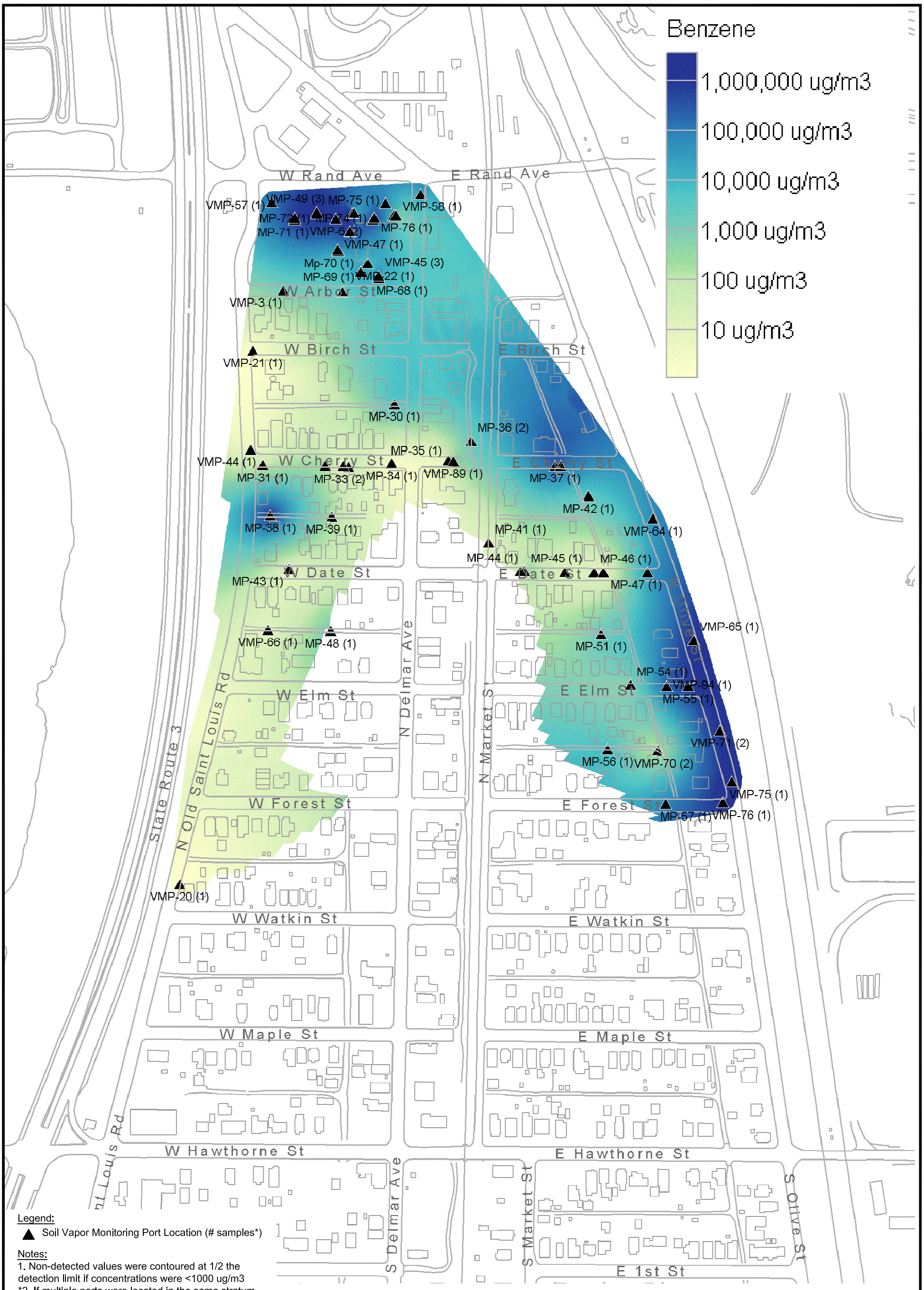
DRAWN: JG	DATE: 5/12/05	PROJECT NO.
APPROVED: LB	REVISED:	01005-093-351

METHANE SOIL VAPOR DISTRIBUTION MAP
SHALLOW OVERBURDEN ("A" CLAY)
HARTFORD, ILLINOIS

FIGURE 4-3

ENSR INTERNATIONAL
CONSULTING • ENGINEERING • REMEDIATION

U:\Cad_Drive\01000-01999\1005\093\CSM Report\Section IV\1005-093_Fig 4-3 Methane Soil Distribution Shallow (A CAY).dwg



Legend:

▲ Soil Vapor Monitoring Port Location (# samples*)

Notes:

1. Non-detected values were contoured at 1/2 the detection limit if concentrations were <1000 ug/m3

*2. If multiple ports were located in the same stratum, the average concentration was used

*3. If samples were collected on multiple dates, the average concentration was used

SCALE IN FEET

0 250 500

DRAWN: JG	DATE: 5/12/05	PROJECT NO.
APPROVED: LB	REVISED:	01005-093-351

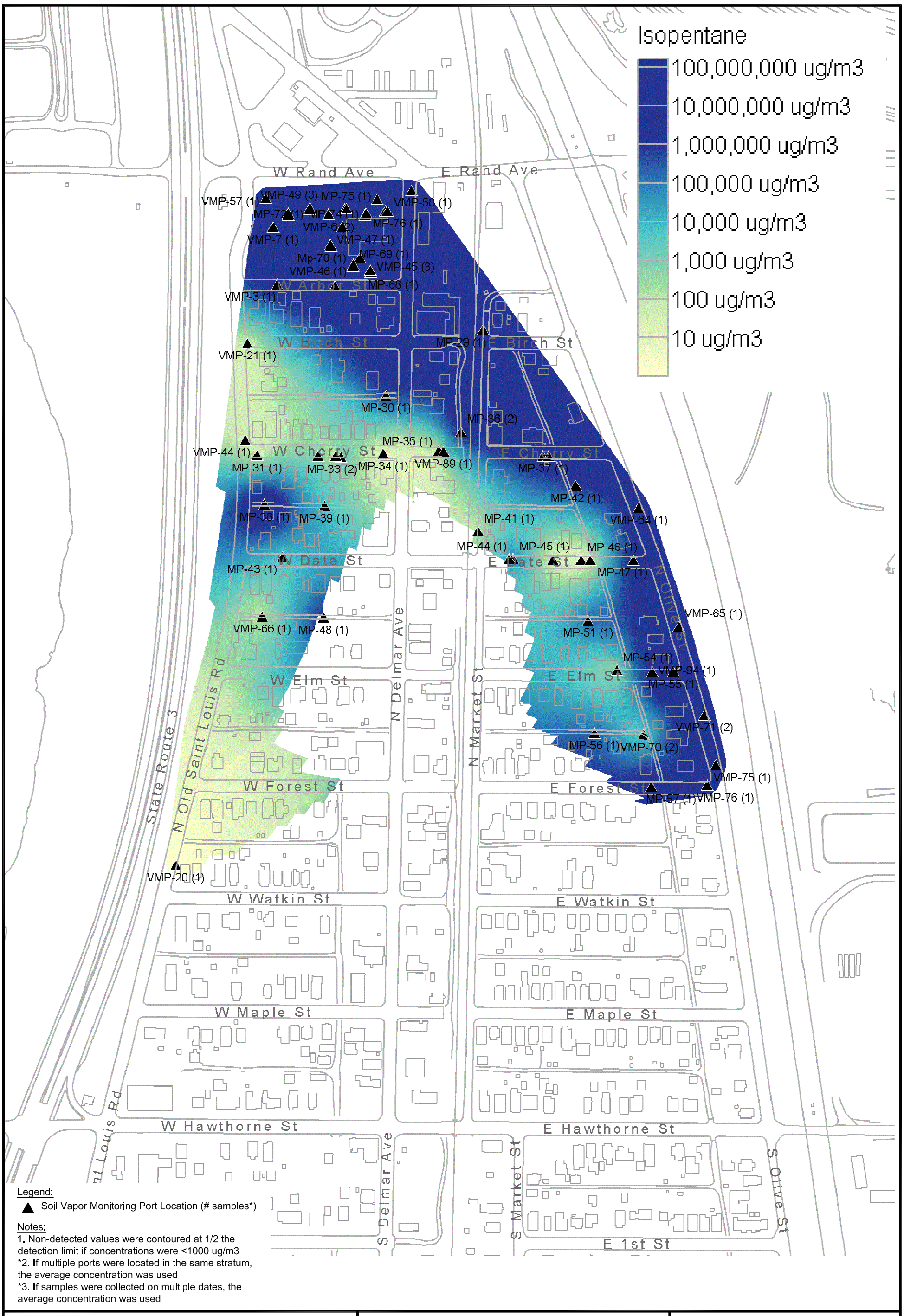
BENZENE SOIL VAPOR DISTRIBUTION MAP
NORTH OLIVE STRATUM
HARTFORD, ILLINOIS

FIGURE 4-4

ENSR INTERNATIONAL

CONSULTING • ENGINEERING • REMEDIATION

U:\Cad_Drive\01000-01999\1005\093\CSM Report\Section IV\1005-093_Fig 4-4 Benzene Soil Distribution (North Olive).dwg



Legend:

▲ Soil Vapor Monitoring Port Location (# samples*)

Notes:

1. Non-detected values were contoured at 1/2 the detection limit if concentrations were <1000 ug/m3
*2. If multiple ports were located in the same stratum, the average concentration was used
*3. If samples were collected on multiple dates, the average concentration was used

SCALE IN FEET

0 250 500

N

DRAWN: JG	DATE: 5/12/05	PROJECT NO.
APPROVED: LB	REVISED:	01005-093-351

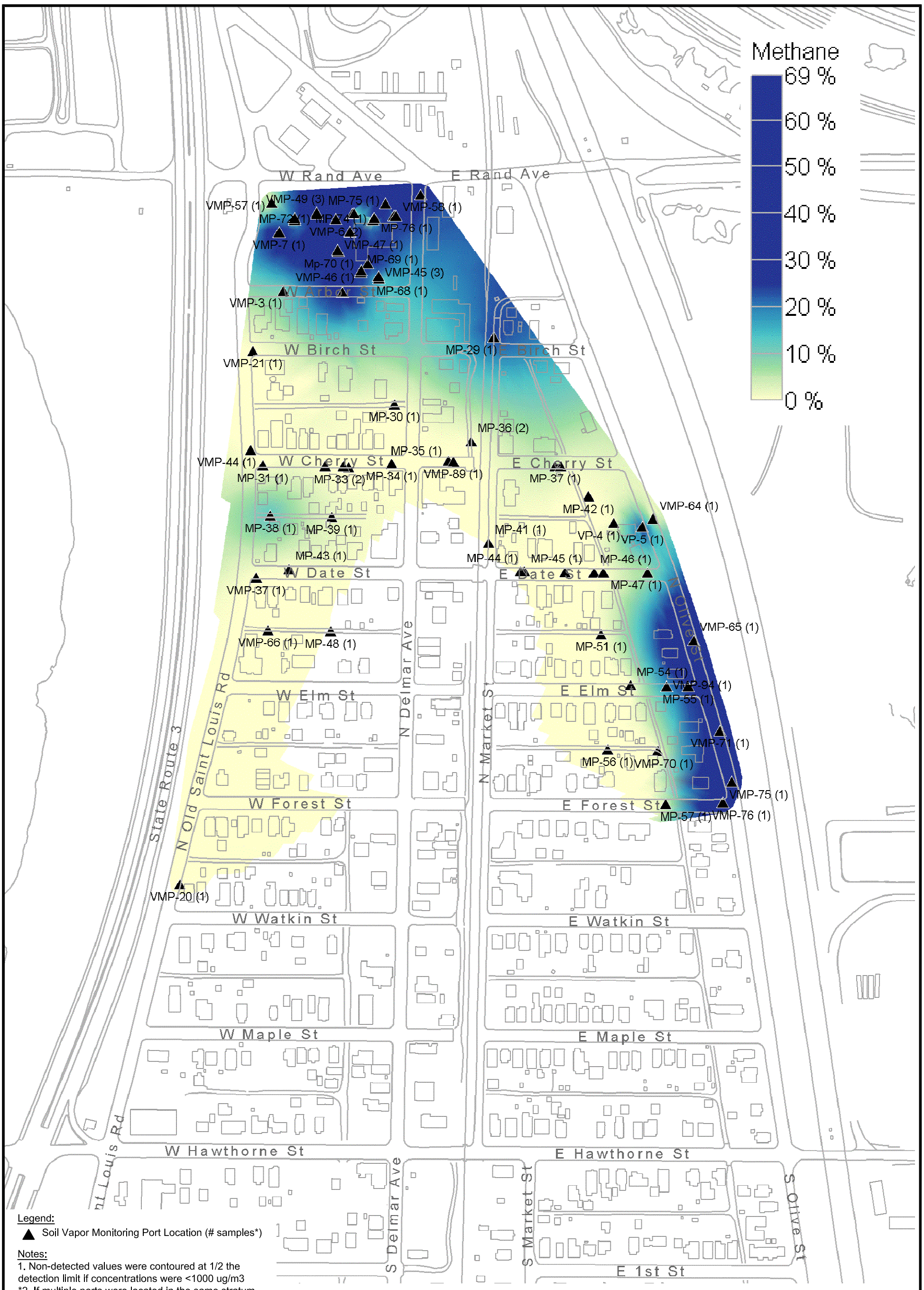
ISOPENTANE SOIL VAPOR DISTRIBUTION MAP
NORTH OLIVE STRATUM
HARTFORD, ILLINOIS

FIGURE 4-5

ENSR INTERNATIONAL

CONSULTING • ENGINEERING • REMEDIATION

U:\Cad_Drive\01000-01999\1005\093\CSM Report\Section IV\1005-093_Fig 4-5 Isopentane Soil Distribution (North Olive).dwg



Legend:

▲ Soil Vapor Monitoring Port Location (# samples*)

Notes:

1. Non-detected values were contoured at 1/2 the detection limit if concentrations were <1000 ug/m3

*2. If multiple ports were located in the same stratum, the average concentration was used

*3. If samples were collected on multiple dates, the average concentration was used

SCALE IN FEET

0 250 500

N

DRAWN: JG	DATE: 5/12/05	PROJECT NO.
APPROVED: LB	REVISED:	01005-093-351

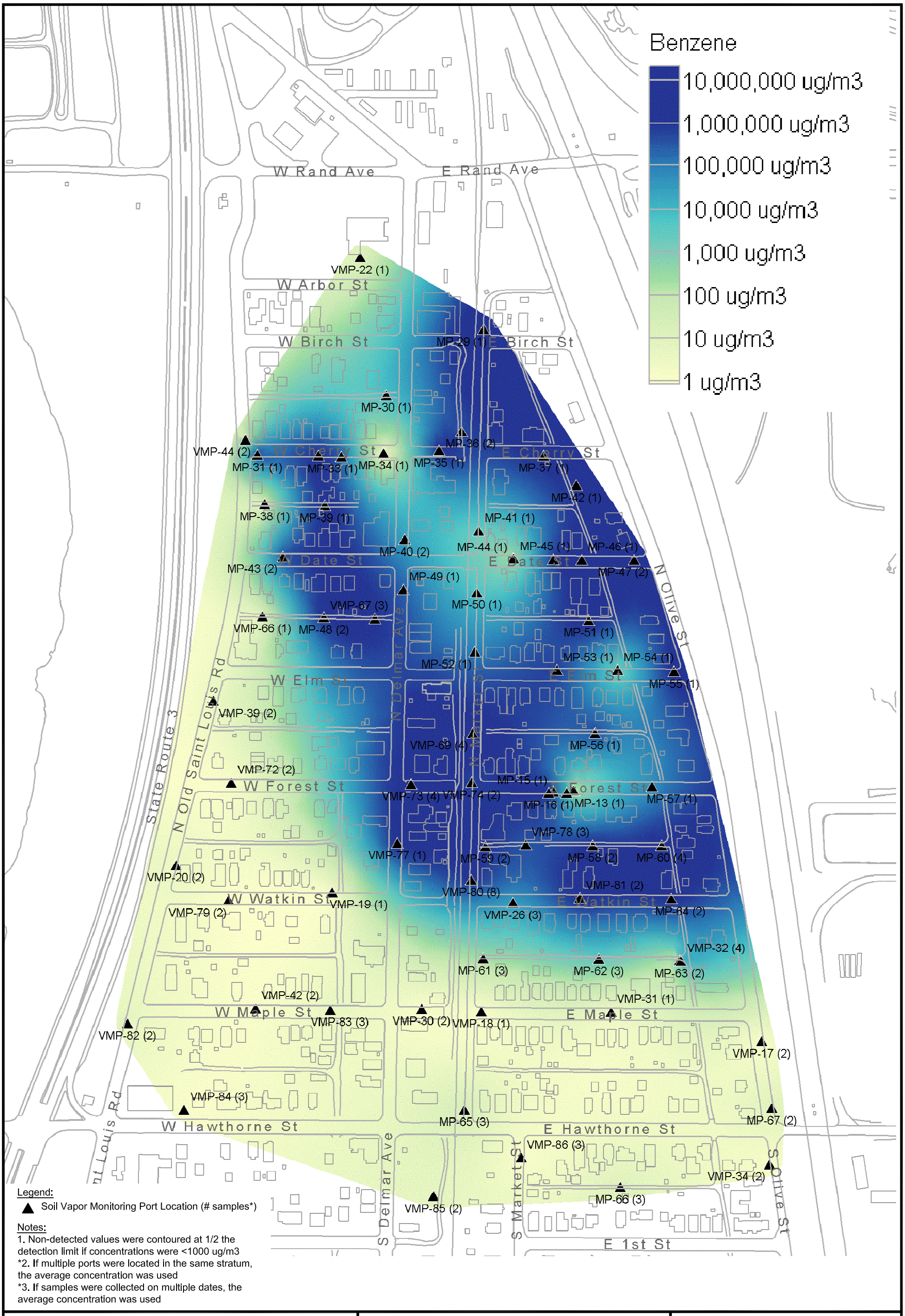
METHANE SOIL VAPOR DISTRIBUTION MAP
NORTH OLIVE STRATUM
HARTFORD, ILLINOIS

FIGURE 4-6

ENSR INTERNATIONAL

CONSULTING • ENGINEERING • REMEDIATION

U:\Cad_Drive\01000-01999\1005\093\CSM Report\Section IV\1005-093_Fig 4-6 Methane Soil Distribution (North Olive).dwg



Legend:

▲ Soil Vapor Monitoring Port Location (# samples*)

Notes:

1. Non-detected values were contoured at 1/2 the detection limit if concentrations were <1000 ug/m3

*2. If multiple ports were located in the same stratum, the average concentration was used

*3. If samples were collected on multiple dates, the average concentration was used

SCALE IN FEET

0 250 500

N

DRAWN: JG	DATE: 5/12/05	PROJECT NO.
APPROVED: LB	REVISED:	01005-093-351

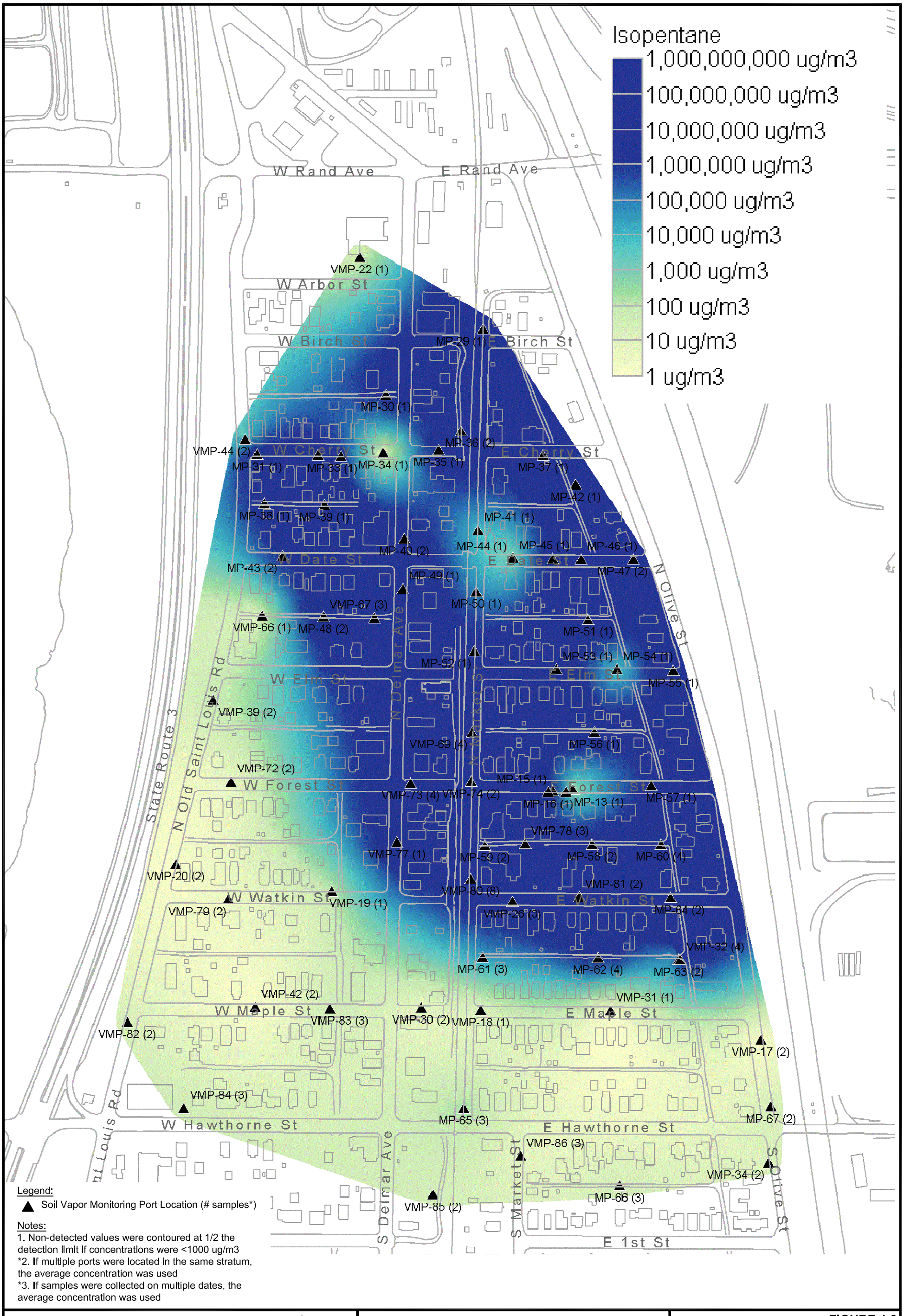
BENZENE SOIL VAPOR DISTRIBUTION MAP
MAIN SAND STRATUM
HARTFORD, ILLINOIS

FIGURE 4-7

ENSR INTERNATIONAL

CONSULTING • ENGINEERING • REMEDIATION

U:\Cad_Drive\01000-01999\1005\093\CSM Report\Section IV\1005-093_Fig 4-7 Benzene Soil Distribution (Main Sand).dwg



Legend:

▲ Soil Vapor Monitoring Port Location (# samples*)

Notes:

1. Non-detected values were contoured at 1/2 the detection limit if concentrations were <1000 ug/m3
*2. If multiple ports were located in the same stratum, the average concentration was used
*3. If samples were collected on multiple dates, the average concentration was used

SCALE IN FEET

0 250 500

DRAWN: JG	DATE: 5/12/05	PROJECT NO.
APPROVED: LB	REVISED:	01005-093-351

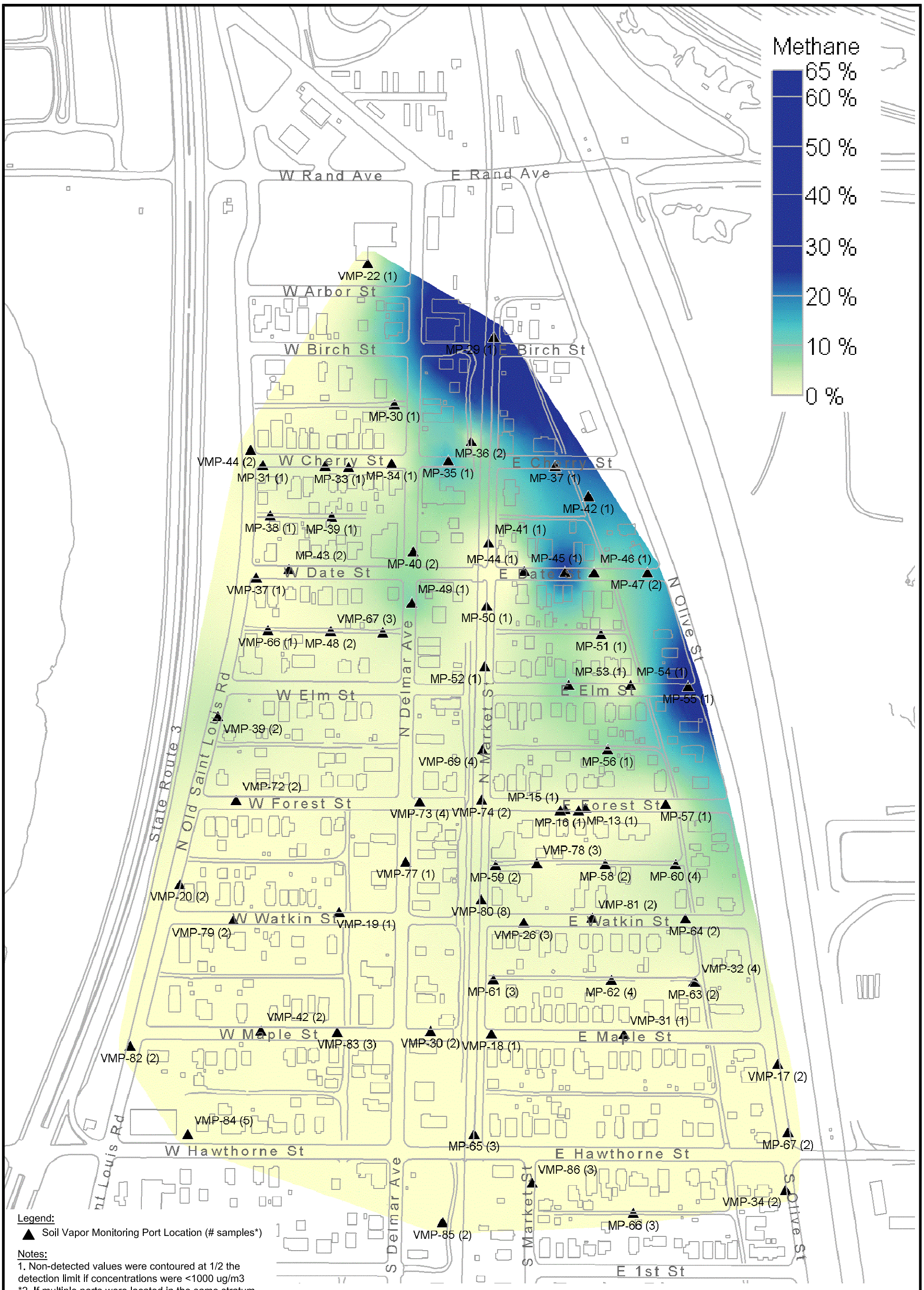
ISOPENTANE SOIL VAPOR DISTRIBUTION MAP
MAIN SAND STRATUM
HARTFORD, ILLINOIS

FIGURE 4-8

ENSR INTERNATIONAL

CONSULTING • ENGINEERING • REMEDIATION

U:\Cad_Drive\01000-01999\1005\093\CSM Report\Section IV\1005-093_Fig 4-8 Isopentane Soil Distribution (Main Sand).dwg



Legend:

▲ Soil Vapor Monitoring Port Location (# samples*)

Notes:

1. Non-detected values were contoured at 1/2 the detection limit if concentrations were <1000 ug/m3
*2. If multiple ports were located in the same stratum, the average concentration was used
*3. If samples were collected on multiple dates, the average concentration was used

SCALE IN FEET

0 250 500

N

DRAWN: JG	DATE: 5/12/05	PROJECT NO.
APPROVED: LB	REVISED:	01005-093-351

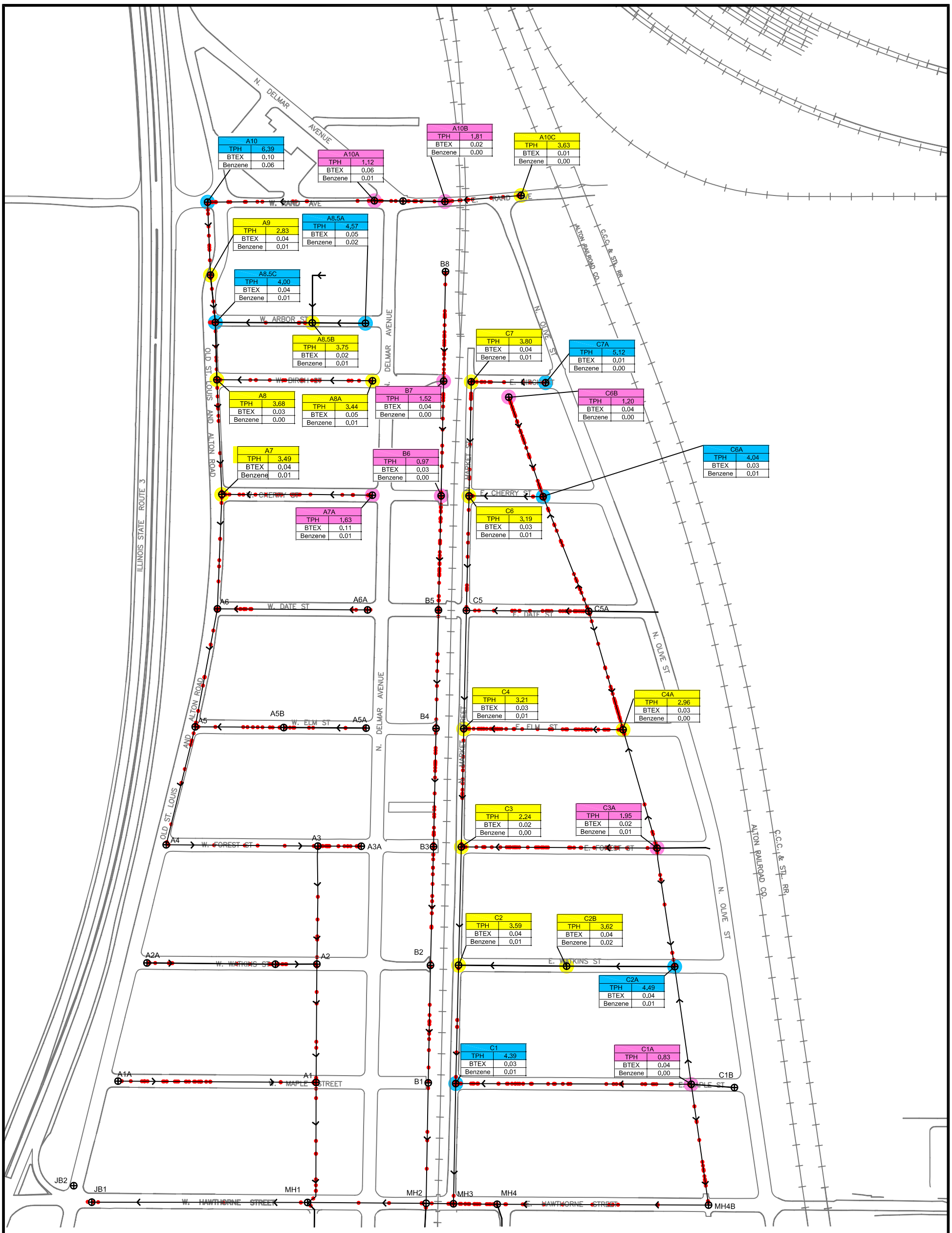
METHANE SOIL VAPOR DISTRIBUTION MAP
MAIN SAND STRATUM
HARTFORD, ILLINOIS

FIGURE 4-9

ENSR INTERNATIONAL

CONSULTING • ENGINEERING • REMEDIATION

U:\Cad_Drive\01000-01999\1005\093\CSM Report\Section IV\1005-093_Fig 4-9 Methane Soil Distribution (Main Sand).dwg



LEGEND:

- ⊕ VILLAGE SEWER MANHOLE LOCATION WITH ID LABEL
- ←— SEWER ALIGNMENT SHOWING FLOW DIRECTION
- TPH TOTAL PETROLEUM HYDROCARBONS
- BTEX BENZENE, TOLUENE, ETHYLBENZENE, TOTAL XYLENE
- ANALYTICAL VALUES IN MICROGRAMS (ug)/DAY

- TPH > 4 ug/day (Max. 6.39)
- TPH > 2 and <4 ug/day
- TPH <2 ug/day (Min. 0.83)

- ● OBSERVED SEWER PIPELINE INTEGRITY BREACH (e.g. BREAK, CRACK, HOLE, JOINT DISPLACEMENT, BLOCKAGE). ADAPTED FROM CLAYTON GROUP SERVICES. REVIEW AND COMMENTS ON VIDEO SURVEY OF SEWERS PERFORMED BY WALDEN ASSOCIATED TECHNOLOGIES, INC. (GLEN CARBON, IL) IN 2003.

PHYSICAL FEATURES ADAPTED FROM CLAYTON GROUP SERVICES GIS DATABASE

SCALE IN FEET

0 250 500

N

DRAWN: JG	DATE: 4/4/05	PROJECT NO.
APPROVED: JLP	REVISED:	01005-093-351

GORE-SORBER ANALYTICAL DATA
DAILY AVERAGE SORBED CONCENTRATIONS
(12/01/04 - 4/19/05)
HARTFORD, ILLINOIS

FIGURE 4-10

ENSR INTERNATIONAL

CONSULTING • ENGINEERING • REMEDIATION

U:\Cad_Drive\01000-01999\1005\093\CSM Report\Section IV\1005-093_Fig 4-10 Gore-Sorber Analytical Data Daily Average.dwg

TABLES

TABLE 2-1
SOIL SAMPLING SUMMARY

Hartford Working Group
Hartford, Illinois

Sample ID	Sample Date	Depth Interval (ft bgs)	PID/FID (ppm)	Analysis Type
VAPOR MONITORING POINTS				
VMP-27D-25-27.5	01/12/2005	25-27.5	67.3 / 5,614	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-54-2.5-5	01/11/2005	2.5-5	53.1 / 2,341	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-54-22.5-25	01/11/2005	22.5-25	63.7 / 4,310	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-55-12.5-15	01/10/2005	12.5-15	2.1 / 175	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-55-2.5-5	01/10/2005	2.5-5	0.5 / 300	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-56-10-12.5	01/10/2005	10-12.5	71 / 3,200	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-56-17.5-20	01/10/2005	17.5-20	688 / 6.01%	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-57-11.5-14	02/02/2005	11.5-14	10.51 / 1,138	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-58-10-12.5	01/11/2005	10-12.5	27 / 460	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-58-2.5-5	01/11/2005	2.5-5	10.7 / 820	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-59-10-12.5	01/12/2005	10-12.5	810/ / 6.94%	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-59-20-22.5	01/12/2005	20-22.5	16.66 / 146	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-60-17.5-20	01/11/2005	17.5-20	-0.43 / 143	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-60-17.5-20-Dup	01/11/2005	17.5-20	-0.43 / 143	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-60-4	01/11/2005	2-4	6.45 / 63.66	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-60-4-Dup	01/11/2005	2-4	6.45 / 63.66	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-61-22.5-25	01/12/2005	22.5-25	0.83 / 2.69	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-62-2.5-5	01/07/2005	2.5-5	0.0 / 35	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-62-7.5-10	01/07/2005	7.5-10	0.0 / 70.7	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-63-17.5-20	01/11/2005	17.5-20	0.02 / -0.29	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-64-10-12.5	01/04/2005	10-12.5	0.38 / 8.54	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-64-7.5-10	01/04/2005	7.5-10	0.03 / 25.58	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-65-20-22.5	12/29/2004	20-22.5	702 / NA	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-65-30-35	12/29/2004	30-35	900 / 18%	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-66-10-12.5	12/27/2004	10-12.5	1.62 / 13.16	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-66-22.5-25	12/27/2004	22.5-25	0.0 / 0.43	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-67-15-17.5	12/27/2004	15-17.5	875 / 23,100	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-67-23.5-25	12/27/2004	23.5-25	813 / >23,900	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-68-17.5-20	12/28/2004	17.5-20	404 / >24.66%	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-68-22.5-25	12/28/2004	22.5-25	195 / >24.86%	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-69-12.5-15	12/28/2004	12.5-15	1,157 / 3.89%	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-69-22.5-25	12/28/2004	22.5-25	>1,413 / >31.9%	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-70-17.5-20	01/03/2005	17.5-20	1,137 / 7,400	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-70-25-27.5	01/03/2005	25-27.5	1,973 / 1.13%	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-71-10-12.5	12/29/2004	10-12.5	440 / FO	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-71-22.5-25	12/29/2004	22.5-25	480 / FO	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-72-25-26	12/27/2004	25-26	0.0 / 0.0	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-72-4-6	12/27/2004	4-6	0.0 / 0.0	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-73-17.5-20	12/27/2004	17.5-20	19.47 / 123	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-73-27-28	12/27/2004	27-28	NA / NA	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-74-15-17.5	01/03/2005	15-17.5	1,056 / 4.02%	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-74-22.5-25	01/03/2005	22.5-25	978 / 18.24%	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-75-12.5-15	12/29/2004	12.5-15	207 / FO	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-75-20-22.5	12/29/2004	20-22.5	244 / 4.08%	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-76-15-17.5	12/29/2004	15-17.5	961 / FO	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-76-20-22.5	12/29/2004	20-22.5	735 / FO	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-77-2.5-5	01/12/2005	2.5-5	16.7 / 1,045	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-77-20-22.5	01/12/2005	20-22.5	480 / 6,148	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-78-15-17.5	01/04/2005	15-17.5	43 / 182	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-78-22.5-25	01/04/2005	22.5-25	1,465 / 3%	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-79-15-17.5	12/30/2004	15-17.5	3 / 23.2	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-79-22.5-25	12/30/2004	22.5-25	293 / 4.69%	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-79-22.5-25-D	12/30/2004	22.5-25	293 / 4.69%	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-80-27.5-30	12/30/2004	27.5-30	1,768 / 8%	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-80-8	12/30/2004	6-8	23.94 / 186	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-81-15-17.5	12/30/2004	15-17.5	20.12 / 148	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-81-15-17.5-D	12/30/2004	15-17.5	20.12 / 148	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-81-27.5-30	12/30/2004	27.5-30	2,101 / 30%	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-81-27.5-30-D	12/30/2004	27.5-30	2,101 / 30%	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-82-10-12.5	01/10/2005	10-12.5	1.9 / 21.65	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-82-25-27.5	01/10/2005	25-27.5	0.34 / 3.09	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-83-10-12.5	01/10/2005	10-12.5	0.0 / 0.0	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-83-20-22.5	01/10/2005	20-22.5	0.0 / 0.0	BTEX, MTBE, TPH-GRO, TPH-DRO

TABLE 2-1
SOIL SAMPLING SUMMARY

Hartford Working Group
Hartford, Illinois

Sample ID	Sample Date	Depth Interval (ft bgs)	PID/FID (ppm)	Analysis Type
VMP-84-27.5-30	01/06/2005	27.5-30	-0.38 / 3.45	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-85-12.5-15	01/07/2005	12.5-15	0.2 / 0.2	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-85-17.5-20	01/07/2005	17.5-20	0.4 / 0.3	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-86-15-17.5	01/06/2005	15-17.5	-0.39 / 0.52	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-86-27.5-30	01/06/2005	27.5-30	-0.41 / 1.39	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-88-13-14	02/15/2005	13-14	0.3 / 0.0	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-89-18-19	02/15/2005	18-19	420 / 3,500	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-90-11-12	02/15/2005	11-12	256 / 2,900	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-91-9-10	02/16/2005	9-10	0.0 / 0.0	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-92-13-14	02/15/2005	13-14	11 / 16	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-93-9-10	02/15/2005	9-10	4.4 / 0.2	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-94-12-13	02/16/2005	12-13	605 / 18,000	BTEX, MTBE, TPH-GRO, TPH-DRO
VMP-94-18-19	02/16/2005	18-19	950 / 23,000	BTEX, MTBE, TPH-GRO, TPH-DRO
GEOPROBE SOIL BORINGS				
GP-1-9-12	01/06/2005	9-12	481 / 4,600	BTEX, MTBE, TPH-GRO, TPH-DRO
GP-2-12-15	01/06/2005	12-15	550 / 1%	BTEX, MTBE, TPH-GRO, TPH-DRO
GP-3-9-12	01/06/2005	9-12	1,000 / 11%	BTEX, MTBE, TPH-GRO, TPH-DRO
GP-4-12-15	01/06/2005	12-15	717 / 8,000	BTEX, MTBE, TPH-GRO, TPH-DRO
GP-5-7-9	01/06/2005	7-9	>TVA	BTEX, MTBE, TPH-GRO, TPH-DRO
GP-6-11-12	01/06/2005	11-12	>TVA	BTEX, MTBE, TPH-GRO, TPH-DRO
GP-7-0-3	01/07/2005	0-3	85 / 2,680	BTEX, MTBE, TPH-GRO, TPH-DRO
GP-8-9-12	01/07/2005	9-12	1 / 25	BTEX, MTBE, TPH-GRO, TPH-DRO
GP-9-0-3	01/07/2005	0-3	2.17 / 5.98	BTEX, MTBE, TPH-GRO, TPH-DRO
GP-10-0-3	01/07/2005	0-3	2.27 / 5.72	BTEX, MTBE, TPH-GRO, TPH-DRO
GP-11-9-12	01/07/2005	9-12	21.4 / 5.72	BTEX, MTBE, TPH-GRO, TPH-DRO
GP-12-6-9	01/07/2005	6-9	78 / 292	BTEX, MTBE, TPH-GRO, TPH-DRO
GP-13-9-12	01/07/2005	9-12	0.35 / 4.34	BTEX, MTBE, TPH-GRO, TPH-DRO
GP-14-3-6	01/10/2005	3-6	0.6 / 3	BTEX, MTBE, TPH-GRO, TPH-DRO
GP-15-3-6	01/10/2005	3-6	0.2 / 4.6	BTEX, MTBE, TPH-GRO, TPH-DRO
GP-16-9-12	01/10/2005	9-12	0.5 / 3	BTEX, MTBE, TPH-GRO, TPH-DRO
GP-17-3-6	01/10/2005	3-6	7.7 / 345	BTEX, MTBE, TPH-GRO, TPH-DRO
GP-18-3-6	01/10/2005	3-6	0.5 / 3	BTEX, MTBE, TPH-GRO, TPH-DRO
GP-19-9-12	01/10/2005	9-12	2 / 13.7	BTEX, MTBE, TPH-GRO, TPH-DRO
GP-20-0-3	01/10/2005	0-3	0.0 / 3.4	BTEX, MTBE, TPH-GRO, TPH-DRO
GP-21-9-12	01/10/2005	9-12	35 / 108	BTEX, MTBE, TPH-GRO, TPH-DRO
GP-22-9-12	01/11/2005	9-12	12 / 50	BTEX, MTBE, TPH-GRO, TPH-DRO
GP-23-3-6	01/11/2005	3-6	36 / 830	BTEX, MTBE, TPH-GRO, TPH-DRO
GP-24-0-3	01/11/2005	0-3	560 / 6,870	BTEX, MTBE, TPH-GRO, TPH-DRO
GP-25-3-6	01/11/2005	3-6	1 / 4.6	BTEX, MTBE, TPH-GRO, TPH-DRO
GP-26-9-12	01/11/2005	9-12	104 / 1,700	BTEX, MTBE, TPH-GRO, TPH-DRO
GP-27-3-6	01/14/2005	3-6	NA / NA	BTEX, MTBE, TPH-GRO, TPH-DRO
GP-28-0-3	01/14/2005	0-3	NA / NA	BTEX, MTBE, TPH-GRO, TPH-DRO
GP-29-0-3	01/14/2005	0-3	NA / NA	BTEX, MTBE, TPH-GRO, TPH-DRO
HAND AUGERED BORINGS				
HA-8-5-6	02/17/2005	5-6	14 / 2,410	BTEX, MTBE, TPH-GRO, TPH-DRO
HA-8-5-6 Dup	02/17/2005	5-6	14 / 2,410	BTEX, MTBE, TPH-GRO, TPH-DRO
HA-10-5-6	02/17/2005	5-6	52 / 935	BTEX, MTBE, TPH-GRO, TPH-DRO
HA-13-5-6	02/17/2005	5-6	19 / 2,650	BTEX, MTBE, TPH-GRO, TPH-DRO
HA-16-5-6	02/17/2005	5-6	24 / 450	BTEX, MTBE, TPH-GRO, TPH-DRO
HA-19-5-6	02/17/2005	5-6	72 / 1,890	BTEX, MTBE, TPH-GRO, TPH-DRO
HA-21-5-6	02/16/2005	5-6	2 / 8	BTEX, MTBE, TPH-GRO, TPH-DRO
HA-24-5-6	02/16/2005	5-6	2 / 956	BTEX, MTBE, TPH-GRO, TPH-DRO
HA-27-5-6	02/16/2005	5-6	62 / 2,010	BTEX, MTBE, TPH-GRO, TPH-DRO
HA-29-5-6	02/16/2005	5-6	8 / 515	BTEX, MTBE, TPH-GRO, TPH-DRO
HA-31-5-6	02/15/2005	5-6	0.0 / 50	BTEX, MTBE, TPH-GRO, TPH-DRO
HA-34-5-6	02/16/2005	5-6	25 / 850	BTEX, MTBE, TPH-GRO, TPH-DRO
HA-36-5-6	02/16/2005	5-6	6 / 576	BTEX, MTBE, TPH-GRO, TPH-DRO
HA-37-5-6	02/15/2005	5-6	0.0 / 20	BTEX, MTBE, TPH-GRO, TPH-DRO

ft bgs - Feet below ground surface
ppm - parts per million
BTEX - Benzene, Toluene, Ethylbenzene and Xylene, total
MTBE - Methyl tert-butyl ether
TPH - Total Petroleum Hydrocarbon
GRO - Gasoline Range Organics
DRO - Diesel Range Organics
NA - Not available
FO - Flame-out

TABLE 2-2
GEOTECHNICAL SOIL SAMPLING SUMMARY

Hartford Working Group
Hartford, Illinois

Sample ID	Depth Interval (ft bgs)	Sample Date	Sample Matrix	Analysis Type
VAPOR MONITORING POINTS				
VMP-57-13-13.5	13-13.5	02/02/2005	SOIL	GRAIN SIZE
VMP-66-12.5-15	12.5-15	12/27/2004	SOIL	GRAIN SIZE ANALYSIS
VMP-67-27.5-30	27.5-30	12/27/2004	SOIL	GRAIN SIZE ANALYSIS
VMP-70-35-37	35-37	01/03/2005	SOIL	GRAIN SIZE ANALYSIS
VMP-75B-4-6	4-6	12/30/2004	SOIL	GRAIN SIZE, POROSITY, MOISTURE CONTENT, BULK DENSITY
VMP-75B-10-12	10-12	12/30/2004	SOIL	GRAIN SIZE, POROSITY, MOISTURE CONTENT, BULK DENSITY
VMP-88-13-14	13-14	02/15/2005	SOIL	GRAIN SIZE
VMP-89-14-15	14-15	02/15/2005	SOIL	GRAIN SIZE
VMP-89-10-10.5	10-10.5	02/15/2005	SOIL	GRAIN SIZE
VMP-90-9-10	9-10	02/15/2005	SOIL	GRAIN SIZE
VMP-92-12.5-13.5	12.5-13.5	02/14/2005	SOIL	GRAIN SIZE
VMP-93-9-10	9-10	02/14/2005	SOIL	GRAIN SIZE
VMP-94-12-13	12-13	02/16/2005	SOIL	GRAIN SIZE
VMP-94-14-14.5	14-14.5	02/16/2005	SOIL	GRAIN SIZE
GEOPROBE SOIL BORINGS				
GP-4-5-6	5-6	01/06/2005	SOIL	GRAIN SIZE, POROSITY, MOISTURE CONTENT, BULK DENSITY
GP-6-5-6	5-6	01/06/2005	SOIL	GRAIN SIZE, POROSITY, MOISTURE CONTENT, BULK DENSITY
GP-27-3-6	3-6	01/14/2005	SOIL	GRAIN SIZE, MOISTURE CONTENT, BULK DENSITY

ft bgs - Feet below ground surface.

TABLE 2-3
VMP CONSTRUCTION SUMMARY

Hartford Working Group
Hartford, Illinois

VMP ID	Stratum	Northing (ft)	Easting (ft)	Ground Surface Elev.	Screen Bottom Elev.	Screen Top Elev.	Screen Bottom Depth (ft bgs)	Screen Length (ft)	Screen Diam. (in.)	Rational/Notes
VMP-27 D	Rand	791221.31	2316505.17	429.28	401.78	402.28	27.50	0.50	0.50	Confirm depth of Rand Stratum; adjacent to VMP-27S,M
VMP-54 VS	A Clay	792112.31	2316327.31	430.07	425.00	425.50	5.00	0.50	0.50	Evaluate potential vapors associated with presence of dissolved BTEX in groundwater samples from wells HMW-49C/D; evaluate potential off-site sources north of Rand Ave.; evaluate extent of vapor plume to the north.
VMP-54 M	Rand	792112.31	2316327.31	430.07	407.00	407.50	23.00	0.50	0.50	
VMP-55 VS	A Clay	791901.44	2316595.11	430.44	425.44	425.94	5.00	0.50	0.50	Evaluate potential vapors associated with presence of dissolved BTEX in groundwater samples from wells HMW-49C/D; evaluate potential off-site sources north of Rand Ave.; evaluate extent of vapor plume to the north.
VMP-55 S	N. Olive	791901.44	2316595.11	430.44	416.94	417.44	13.50	0.50	0.50	
VMP-56 VS	A Clay	791897.62	2316920.73	429.97	424.97	425.47	5.00	0.50	0.50	Evaluate potential vapors associated with presence of dissolved BTEX in groundwater samples from monitoring well HMW-38C; evaluate potential off-site sources north of Rand Ave. that may affect Community Center; evaluate extent of vapor plume to the northwest; Rand may not be present; Main Sand may be confined.
VMP-56 S	N. Olive	791897.62	2316920.73	429.97	419.47	419.97	10.50	0.50	0.50	
VMP-56 M	N. Olive	791897.62	2316920.73	429.97	414.97	415.47	15.00	0.50	0.50	
VMP-57VS	A Clay	791616.16	2316449.84	430.48	424.98	425.48	5.50	0.50	0.50	Evaluate vapors associated with presence of free-product in groundwater at well HMW-46C; evaluate potential off-site sources north of Rand Ave. that may affect Community Center; evaluate extent of vapor plume to the north.
VMP-57S	N. Olive	791616.16	2316449.84	430.48	416.98	417.48	13.50	0.50	0.50	
VMP-58VS	A Clay	791638.30	2316849.47	430.32	425.32	425.82	5.00	0.50	0.50	Evaluate potential vapors associated with potential off-site sources northeast of site boundary; evaluate extent of vapor plume north of site boundary.
VMP-58S	N. Olive	791638.30	2316849.47	430.32	418.32	418.82	12.00	0.50	0.50	
VMP-59 VS	A Clay	791766.55	2317097.63	431.70	426.70	427.20	5.00	0.50	0.50	Evaluate potential vapors associated with potential off-site sources northeast of site boundary and with shallow residual free-phase hydrocarbon (FPH) impacts (4-10 ft) in this area; evaluate extent of vapor plume to the northeast; Main Sand is saturated.
VMP-59 S	N. Olive	791766.55	2317097.63	431.70	420.70	421.20	11.00	0.50	0.50	
VMP-59 M	Rand	791766.55	2317097.63	431.70	411.20	411.70	20.50	0.50	0.50	
VMP-60 VS	A Clay	791623.84	2317459.47	430.33	426.33	426.83	4.00	0.50	0.50	Evaluate potential vapors associated with off-site sources northeast of site boundary; evaluate extent of vapor plume northeast of site boundary.
VMP-60 S	A Clay	791623.84	2317459.47	430.33	418.83	419.33	11.50	0.50	0.50	
VMP-60 M	Rand	791623.84	2317459.47	430.33	412.33	412.83	18.00	0.50	0.50	
VMP-61 VS	Backfill	791030.13	2316260.56	427.07	422.07	422.57	5.00	0.50	0.50	Evaluate extent of vapors west of VMP-44D (benzene detected at 12,000 ppbv). Groundwater in HMW-39C is below Class I Groundwater Quality Standards for BTEX.
VMP-61 S	Backfill	791030.13	2316260.56	427.07	417.07	417.57	10.00	0.50	0.50	
VMP-61 M	Rand	791030.13	2316260.56	427.07	408.57	409.07	18.50	0.50	0.50	
VMP-61 D	Rand	791030.13	2316260.56	427.07	402.57	403.07	24.50	0.50	0.50	
VMP-62VS	A Clay	791118.67	2317341.13	428.82	424.32	424.82	4.50	0.50	0.50	Evaluate soil and soil vapors from potential sources along and east of N.Olive St. and along east site boundary.
VMP-62S	N. Olive	791118.67	2317341.13	428.82	419.32	419.82	9.50	0.50	0.50	
VMP-63VS	Backfill	791285.71	2317614.05	431.60	426.60	427.10	5.00	0.50	0.50	Evaluate soil and soil vapors from potential sources along and east of N.Olive St. and east site boundary.
VMP-63 S	Rand	791285.71	2317614.05	431.60	412.60	413.10	19.00	0.50	0.50	
VMP-64VS	A Clay	790753.36	2317483.48	429.32	424.32	424.82	5.00	0.50	0.50	Evaluate soil and soil vapors from sources along and east of N.Olive St. and along east site boundary; evaluate vapors between VP-4S,M,D and SSDS pilot test home.
VMP-64S	N. Olive	790753.36	2317483.48	429.32	420.82	421.32	8.50	0.50	0.50	
VMP-64M	N. Olive	790753.36	2317483.48	429.32	416.82	417.32	12.50	0.50	0.50	
VMP-65 VS	A Clay	790422.13	2317593.61	429.73	424.73	425.23	5.00	0.50	0.50	Evaluate soil and soil vapors from potential sources along and east of N.Olive St. and along east site boundary.
VMP-65 S	N. Olive	790422.13	2317593.61	429.73	418.23	418.73	11.50	0.50	0.50	
VMP-65 M	Rand	790422.13	2317593.61	429.73	408.23	408.73	21.50	0.50	0.50	
VMP-65 D	Main	790422.13	2317593.61	429.73	397.73	398.23	32.00	0.50	0.50	

TABLE 2-3
VMP CONSTRUCTION SUMMARY

Hartford Working Group
Hartford, Illinois

VMP ID	Stratum	Northing (ft)	Easting (ft)	Ground Surface Elev.	Screen Bottom Elev.	Screen Top Elev.	Screen Bottom Depth (ft bgs)	Screen Length (ft)	Screen Diam. (in.)	Rational/Notes
VMP-66 VS	A Clay	790449.98	2316433.23	425.68	420.68	421.18	5.00	0.50	0.50	Evaluate soil and soil vapors from potential sources along W. Elm St.; better define vapor plume in buffer zone area; confirm depth of Main Sand, which is relatively shallow here; Rand Stratum not present.
VMP-66 S	N. Olive	790449.98	2316433.23	425.68	414.68	415.18	11.00	0.50	0.50	
VMP-66 M	Main	790449.98	2316433.23	425.68	408.18	408.68	17.50	0.50	0.50	
VMP-66 D	Main	790449.98	2316433.23	425.68	401.18	401.68	24.50	0.50	0.50	
VMP-67 VS	A Clay	790443.95	2316746.20	432.05	426.05	426.55	6.00	0.50	0.50	Evaluate soil and soil vapors from potential sources along W. Elm St. and shallow (10 - 20 ft bgs) residual FPH impact; confirm depth of Main Sand.
VMP-67 S	Main	790443.95	2316746.20	432.05	415.05	415.55	17.00	0.50	0.50	
VMP-67 M	Main	790443.95	2316746.20	432.05	411.05	411.55	21.00	0.50	0.50	
VMP-67 D	Main	790443.95	2316746.20	432.05	402.55	403.05	29.50	0.50	0.50	
VMP-68 VS	A Clay	790339.85	2317023.18	430.66	424.66	425.16	6.00	0.50	0.50	Evaluate soil and soil vapors from potential sources along E. Elm St. and shallow (10 - 20 ft bgs) residual FPH impact; confirm depth of Main Sand.
VMP-68 S	Rand	790339.85	2317023.18	430.66	412.66	413.16	18.00	0.50	0.50	
VMP-68 M	Rand	790339.85	2317023.18	430.66	409.16	409.66	21.50	0.50	0.50	
VMP-68 D	Rand	790339.85	2317023.18	430.66	405.66	406.16	25.00	0.50	0.50	
VMP-69 VS	A Clay	790124.38	2317018.27	431.04	425.04	425.54	6.00	0.50	0.50	Evaluate soil and soil vapors from potential sources along E. Elm St. and shallow (10 - 20 ft bgs) residual FPH impact; confirm depth of Main Sand.
VMP-69 M	Main	790124.38	2317018.27	431.04	417.04	417.54	14.00	0.50	0.50	
VMP-69 D	Main	790124.38	2317018.27	431.04	406.54	407.04	24.50	0.50	0.50	
VMP-70 VS	A Clay	790119.74	2317496.06	431.39	426.39	426.89	5.00	0.50	0.50	Evaluate soil and soil vapors from potential sources along E. Elm St. and N. Olive St.; confirm depth of Main Sand where it appears to be shallowest on-site and shallow (10 - 20 ft bgs) residual FPH is present; approx. 200 ft west of HROST-40.
VMP-70S	N. Olive	790119.74	2317496.06	431.39	418.39	418.89	13.00	0.50	0.50	
VMP-70 M	Rand	790119.74	2317496.06	431.39	411.39	411.89	20.00	0.50	0.50	
VMP-71 VS	A Clay	790175.13	2317665.41	430.04	424.04	424.54	6.00	0.50	0.50	Evaluate soil and soil vapors from potential sources along N. Olive St.; approx. 50 ft north of HROST-40, where very shallow (4 - 10 ft) residual FPH impact present.
VMP-71 S	N. Olive	790175.13	2317665.41	430.04	419.54	420.04	10.50	0.50	0.50	
VMP-71 M	Rand	790175.13	2317665.41	430.04	405.54	406.04	24.50	0.50	0.50	
VMP-72 VS	A Clay	789986.59	2316346.17	428.18	423.68	424.18	4.50	0.50	0.50	Improve data density within buffer zone and install a vapor monitoring point on W. Forest.
VMP-72 S	A Clay	789986.59	2316346.17	428.18	419.68	420.18	8.50	0.50	0.50	
VMP-72 M	Main	789986.59	2316346.17	428.18	412.18	412.68	16.00	0.50	0.50	
VMP-72 D	Main	789986.59	2316346.17	428.18	402.18	402.68	26.00	0.50	0.50	
VMP-73 VS	A Clay	789982.16	2316846.51	431.69	426.69	427.19	5.00	0.50	0.50	Improve data density and confirm depth of Main Sand. Evaluate potential vapors from dissolved BTEX detected in groundwater samples from HMW-41B (benzene detected at 3.29 mg/L).
VMP-73 S	A Clay	789982.16	2316846.51	431.69	423.69	424.19	8.00	0.50	0.50	
VMP-73 M	Main	789982.16	2316846.51	431.69	412.69	413.19	19.00	0.50	0.50	
VMP-73 D	Main	789982.16	2316846.51	431.69	403.69	404.19	28.00	0.50	0.50	
VMP-74VS	A Clay	789986.81	2317014.72	431.45	424.95	425.45	6.50	0.50	0.50	Improve data density and confirm depth of Main Sand in area where Main Sand is relatively shallow.
VMP-74M	Main	789986.81	2317014.72	431.45	415.95	416.45	15.50	0.50	0.50	
VMP-74D	Main	789986.81	2317014.72	431.45	406.95	407.45	24.50	0.50	0.50	
VMP-75 VS	A Clay	790035.48	2317697.93	429.87	424.37	424.87	5.50	0.50	0.50	Evaluate soil and soil vapors from potential sources along and east of N.Olive St. and along east site boundary; location is approximately 50 ft south/southwest of VMP-15 and approximately 100 ft south of HROST-40 where very shallow (4 - 10 ft) residual FPH impact present.
VMP-75 S	N. Olive	790035.48	2317697.93	429.87	416.37	416.87	13.50	0.50	0.50	
VMP-75 M	Rand	790035.48	2317697.93	429.87	407.87	408.37	22.00	0.50	0.50	

TABLE 2-3
VMP CONSTRUCTION SUMMARY

Hartford Working Group
Hartford, Illinois

VMP ID	Stratum	Northing (ft)	Easting (ft)	Ground Surface Elev.	Screen Bottom Elev.	Screen Top Elev.	Screen Bottom Depth (ft bgs)	Screen Length (ft)	Screen Diam. (in.)	Rational/Notes
VMP-76 VS	A Clay	789979.23	2317672.99	429.45	424.45	424.95	5.00	0.50	0.50	Evaluate soil and soil vapors from potential sources along and east of N.Olive St. and along east site boundary; location is approximately 50 ft south/southwest of VMP-65 (100 ft south/southwest of VMP-15 and 150 south of HROST-40).
VMP-76 S	N. Olive	789979.23	2317672.99	429.45	418.45	418.95	11.00	0.50	0.50	
VMP-76 M	Rand	789979.23	2317672.99	429.45	407.95	408.45	21.50	0.50	0.50	
VMP-76 D	Main	789979.23	2317672.99	429.45	398.45	398.95	31.00	0.50	0.50	
VMP-77 VS	A Clay	789817.20	2316808.57	431.32	426.32	426.82	5.00	0.50	0.50	Improve data density and confirm depth of Main Sand in area where Main Sand is relatively shallow.
VMP-77 M	Main	789817.20	2316808.57	431.32	410.32	410.82	21.00	0.50	0.50	
VMP-77 D	Main	789817.20	2316808.57	431.32	402.82	403.32	28.50	0.50	0.50	
VMP-78-VS	A Clay	789813.23	2317166.09	431.28	426.28	426.78	5.00	0.50	0.50	Improve data density and confirm depth of Main Sand in area where Main Sand is relatively shallow.
VMP-78S	A Clay	789813.23	2317166.09	431.28	419.28	419.78	12.00	0.50	0.50	
VMP-78M	Main	789813.23	2317166.09	431.28	415.28	415.78	16.00	0.50	0.50	
VMP-78D	Main	789813.23	2317166.09	431.28	406.78	407.28	24.50	0.50	0.50	
VMP-79 VS	A Clay	789658.57	2316338.41	428.67	421.17	421.67	7.50	0.50	0.50	Improve data density within buffer zone and install a vapor monitoring point on W. Watkins.
VMP-79 M	Main	789658.57	2316338.41	428.67	413.17	413.67	15.50	0.50	0.50	
VMP-79 D	Main	789658.57	2316338.41	428.67	404.17	404.67	24.50	0.50	0.50	
VMP-80 VS	A Clay	789715.40	2317013.83	430.71	425.71	426.21	5.00	0.50	0.50	Improve data density and confirm depth of Main Sand in area where Main Sand is relatively shallow.
VMP-80 S	Main	789715.40	2317013.83	430.71	414.21	414.71	16.50	0.50	0.50	
VMP-80 M	Main	789715.40	2317013.83	430.71	409.21	409.71	21.50	0.50	0.50	
VMP-80 D	Main	789715.40	2317013.83	430.71	400.71	401.21	30.00	0.50	0.50	
VMP-81 VS	A Clay	789664.80	2317316.50	430.41	426.41	426.91	4.00	0.50	0.50	Evaluate utility impacts and confirm depth of Main Sand on E. Watkins in area where Main Sand is relatively shallow..
VMP-81 S	A Clay	789664.80	2317316.50	430.41	416.91	417.41	13.50	0.50	0.50	
VMP-81 M	Main	789664.80	2317316.50	430.41	413.41	413.91	17.00	0.50	0.50	
VMP-81 D	Main	789664.80	2317316.50	430.41	404.41	404.91	26.00	0.50	0.50	
VMP-82 VS	A Clay	789315.59	2316057.58	427.08	422.08	422.58	5.00	0.50	0.50	Evaluate buffer zone area west of VMP-42, where benzene was detected in shallow overburden at 620 ppbv and the Main Sand at 740 ppbv; improve data density in buffer zone.
VMP-82 S	Main	789315.59	2316057.58	427.08	416.08	416.58	11.00	0.50	0.50	
VMP-82 M	Main	789315.59	2316057.58	427.08	405.08	405.58	22.00	0.50	0.50	
VMP-82 D	Main	789315.59	2316057.58	427.08	399.58	400.08	27.50	0.50	0.50	
VMP-83 VS	A Clay	789354.07	2316622.21	425.95	419.45	419.95	6.50	0.50	0.50	Evaluate buffer zone area east of VMP-42, where benzene was detected in shallow overburden at 620 ppbv and the Main Sand at 740 ppbv; improve data density in buffer zone and along W. Maple.
VMP-83 S	Main	789354.07	2316622.21	425.95	414.45	414.95	11.50	0.50	0.50	
VMP-83 M	Main	789354.07	2316622.21	425.95	410.95	411.45	15.00	0.50	0.50	
VMP-83 D	Main	789354.07	2316622.21	425.95	404.95	405.45	21.00	0.50	0.50	
VMP-84VS	A Clay	789074.90	2316214.66	429.52	425.02	425.52	4.50	0.50	0.50	Evaluate buffer zone area southwest of VMP-42, where benzene was detected in shallow overburden at 620 ppbv and the Main Sand at 740 ppbv; location is at Village of Hartford public library; provide data point between VMP-42 and Village water supply wells.
VMP-84S	Main	789074.90	2316214.66	429.52	418.02	418.52	11.50	0.50	0.50	
VMP-84M	Main	789074.90	2316214.66	429.52	408.02	408.52	21.50	0.50	0.50	
VMP-84D	Main	789074.90	2316214.66	429.52	401.52	402.02	28.00	0.50	0.50	

TABLE 2-3
VMP CONSTRUCTION SUMMARY

Hartford Working Group
Hartford, Illinois

VMP ID	Stratum	Northing (ft)	Easting (ft)	Ground Surface Elev.	Screen Bottom Elev.	Screen Top Elev.	Screen Bottom Depth (ft bgs)	Screen Length (ft)	Screen Diam. (in.)	Rational/Notes
VMP-85VS	Backfill	788834.44	2316909.58	431.54	427.04	427.54	4.50	0.50	0.50	Evaluate buffer zone area south of MP-65, where benzene was detected in shallow overburden at 1.6 ppbv in the shallow overburden and 270 ppbv in the Main Sand; in alley west of railroad tracks.
VMP-85S	A or B Clay	788834.44	2316909.58	431.54	417.04	417.54	14.50	0.50	0.50	
VMP-85M	Main	788834.44	2316909.58	431.54	412.54	413.04	19.00	0.50	0.50	
VMP-85D	Main	788834.44	2316909.58	431.54	403.54	404.04	28.00	0.50	0.50	
VMP-86VS	Backfill	788941.65	2317152.74	431.18	426.18	426.68	5.00	0.50	0.50	Evaluate buffer zone area south of MP-65, where benzene was detected in shallow overburden at 1.6 ppbv in the shallow overburden and 270 ppbv in the Main Sand; next to HMW-28 on S. Market St.
VMP-86S	Main	788941.65	2317152.74	431.18	414.68	415.18	16.50	0.50	0.50	
VMP-86M	Main	788941.65	2317152.74	431.18	407.68	408.18	23.50	0.50	0.50	
VMP-86D	Main	788941.65	2317152.74	431.18	401.68	402.18	29.50	0.50	0.50	
VMP-88VS	Backfill	790897.09	2316637.88	430.36	424.36	424.86	6.00	0.50	0.50	Further extend the spatial distribution of VS and S ports.
VMP-88S	N. Olive	790897.09	2316637.88	430.36	416.86	417.36	13.50	0.50	0.50	
VMP-89VS	A Clay	790910.34	2316938.83	430.76	424.76	425.26	6.00	0.50	0.50	Further extend the spatial distribution of VS and S ports.
VMP-89S	N. Olive	790910.34	2316938.83	430.76	416.26	416.76	14.50	0.50	0.50	
VMP-90VS	A Clay	790896.45	2317231.11	429.42	423.42	423.92	6.00	0.50	0.50	Further extend the spatial distribution of VS and S ports.
VMP-90S	N. Olive	790896.45	2317231.11	429.42	418.92	419.42	10.50	0.50	0.50	
VMP-91S	Backfill	790612.36	2316687.19	430.65	421.15	421.65	9.50	0.50	0.50	Further extend the spatial distribution of VS and S ports.
VMP-92VS	A Clay	790610.97	2317120.99	431.00	425.00	425.50	6.00	0.50	0.50	Further extend the spatial distribution of VS and S ports.
VMP-92S	N. Olive	790610.97	2317120.99	431.00	417.75	418.25	13.25	0.50	0.50	
VMP-93VS	A Clay	790607.47	2317348.08	429.95	424.45	424.95	5.50	0.50	0.50	Further extend the spatial distribution of VS and S ports.
VMP-93S	N. Olive	790607.47	2317348.08	429.95	419.95	420.45	10.00	0.50	0.50	
VMP-94VS	A Clay	790296.13	2317519.82	429.87	424.37	424.87	5.50	0.50	0.50	Further extend the spatial distribution of VS and S ports.
VMP-94S	N. Olive	790296.13	2317519.82	429.87	415.87	416.37	14.00	0.50	0.50	

ft bgs - Feet below ground surface.

TABLE 2-4
AIR PURGE VOLUMES

Hartford Working Group
Hartford, Illinois

VMP/VP/MP ID	Three Air Purge Volumes (L)
VP-2	0.063
VP-4S	0.080
VP-4M	0.096
VP-5	0.080
VMP-1S	0.068
VMP-1D	0.080
VMP-2D	0.082
VMP-3	0.078
VMP-6S	0.078
VMP-6M	0.089
VMP-7	0.077
VMP-9	0.065
VMP-10	0.068
VMP-12VS	0.066
VMP-12M	0.084
VMP-15VS	0.068
VMP-15S	0.080
VMP-15M	0.091
VMP-15D	0.11
VMP-17M	0.10
VMP-17D	0.10
VMP-18S	0.070
VMP-18M	0.081
VMP-18D	0.10
VMP-19S	0.067
VMP-19M	0.082
VMP-19D	0.10
VMP-20S	0.073
VMP-20M	0.084
VMP-20D	0.10
VMP-21S	0.075
VMP-21M	0.086
VMP-21D	0.11
VMP-22S	0.073
VMP-22M	0.088
VMP-22D	0.12
VMP-23M	0.086
VMP-24M	0.077
VMP-25M	0.079
VMP-26S	0.075
VMP-26M	0.084
VMP-26D	0.093
VMP-27S	0.075
VMP-29M	0.080
VMP-30VS	0.065
VMP-30S	0.077
VMP-30D	0.11
VMP-31VS	0.066
VMP-31S	0.077
VMP-31M	0.089
VMP-31D	0.10
VMP-32VS	0.064
VMP-32S	0.070
VMP-32M	0.093
VMP-32D	0.10

TABLE 2-4
AIR PURGE VOLUMES

Hartford Working Group
Hartford, Illinois

VMP/VP/MP ID	Three Air Purge Volumes (L)
VMP-34VS	0.066
VMP-34S	0.070
VMP-34M	0.10
VMP-34D	0.10
VMP-35VS	0.066
VMP-35M	0.084
VMP-35D	0.10
VMP-36S	0.079
VMP-37VS	0.066
VMP-37S	0.071
VMP-37M	0.086
VMP-37D	0.10
VMP-39VS	0.066
VMP-39S	0.071
VMP-39M	0.086
VMP-39D	0.10
VMP-42VS	0.066
VMP-42S	0.079
VMP-42M	0.10
VMP-42D	0.10
VMP-43VS	0.066
VMP-43S	0.073
VMP-43M	0.10
VMP-44VS	0.068
VMP-44S	0.079
VMP-44M	0.10
VMP-44D	0.10
VMP-45S	0.084
VMP-46VS	0.068
VMP-46S	0.084
VMP-47VS	0.068
VMP-47S	0.084
VMP-48VS	0.068
VMP-48S	0.084
VMP-49VS	0.068
VMP-49S	0.084
VMP-50VS	0.068
VMP-50S	0.084
VMP-51VS	0.068
VMP-51S	0.084
VMP-52VS	0.068
VMP-53VS	0.068
VMP-53S	0.084
VMP-54 VS	0.066
VMP-54M	0.10
VMP-55 VS	0.066
VMP-55 S	0.081
VMP-56 VS	0.066
VMP-56 S	0.076
VMP-57VS	0.067
VMP-57S	0.081
VMP-58VS	0.066
VMP-58S	0.079
VMP-61 VS	0.066
VMP-61 S	0.075

TABLE 2-4
AIR PURGE VOLUMES

Hartford Working Group
Hartford, Illinois

VMP/VP/MP ID	Three Air Purge Volumes (L)
VMP-61 M	0.090
VMP-61 D	0.10
VMP-64VS	0.066
VMP-64S	0.069
VMP-65 VS	0.066
VMP-65 S	0.078
VMP-65 M	0.10
VMP-66 VS	0.066
VMP-66 S	0.077
VMP-66 M	0.089
VMP-67 VS	0.066
VMP-67 S	0.071
VMP-67 M	0.091
VMP-67 D	0.11
VMP-68 VS	0.068
VMP-68 S	0.090
VMP-68 M	0.10
VMP-68 D	0.10
VMP-69 VS	0.066
VMP-69 M	0.082
VMP-69 D	0.10
VMP-70 VS	0.066
VMP-70S	0.081
VMP-70 M	0.093
VMP-71 VS	0.068
VMP-71 S	0.076
VMP-71M	0.10
VMP-72 S	0.072
VMP-72 M	0.086
VMP-72 D	0.10
VMP-73 VS	0.066
VMP-73 S	0.071
VMP-73 M	0.091
VMP-73 D	0.11
VMP-74VS	0.069
VMP-74M	0.085
VMP-74D	0.10
VMP-75 VS	0.067
VMP-75 S	0.081
VMP-75M	0.10
VMP-76 VS	0.066
VMP-76 S	0.077
VMP-76 M	0.10
VMP-77 VS	0.066
VMP-77M	0.10
VMP-77 D	0.11
VMP-78-VS	0.066
VMP-78S	0.079
VMP-78M	0.086
VMP-78D	0.10
VMP-79 VS	0.071
VMP-79 M	0.078
VMP-79 D	0.10
VMP-80 VS	0.066
VMP-80 S	0.087

TABLE 2-4
AIR PURGE VOLUMES

Hartford Working Group
Hartford, Illinois

VMP/VP/MP ID	Three Air Purge Volumes (L)
VMP-80 M	0.10
VMP-80 D	0.11
VMP-81 VS	0.064
VMP-81 S	0.081
VMP-81 M	0.088
VMP-81 D	0.10
VMP-82 VS	0.066
VMP-82 S	0.077
VMP-82 M	0.10
VMP-83 VS	0.069
VMP-83 S	0.078
VMP-83 M	0.084
VMP-83 D	0.10
VMP-84VS	0.063
VMP-84S	0.076
VMP-84M	0.094
VMP-84D	0.11
VMP-85VS	0.065
VMP-85S	0.083
VMP-85M	0.091
VMP-85D	0.11
VMP-86VS	0.066
VMP-86S	0.087
VMP-86M	0.10
VMP-86D	0.11
VMP-88VS	0.068
VMP-88S	0.081
VMP-89VS	0.068
VMP-89S	0.083
VMP-90VS	0.068
VMP-90S	0.076
VMP-91S	0.074
VMP-92VS	0.068
VMP-92S	0.081
VMP-93VS	0.067
VMP-93S	0.074
VMP-94VS	0.067
VMP-94S	0.082
MP-5 S	4.63
MP-5 D	14.83
MP-6 S	4.63
MP-7 S	4.63
MP-7 D	12.97
MP-8 S	4.63
MP-8 D	12.97
MP-9 S	4.63
MP-9D	12.97
MP-10S	4.63
MP-11 S	4.63
MP-11 D	12.97
MP-12S	4.68
MP-12D	12.97
MP-13 S	4.63
MP-13 D	12.97
MP-14S	4.63

TABLE 2-4
AIR PURGE VOLUMES

Hartford Working Group
Hartford, Illinois

VMP/VP/MP ID	Three Air Purge Volumes (L)
MP-14D	12.74
MP-15 S	4.63
MP-15 D	12.97
MP-16S	4.63
MP-16D	12.97
MP-17	0.81
MP-18	0.81
MP-19	0.75
MP-20	0.75
MP-21	0.69
MP-22	0.69
MP-23	0.63
MP-24	0.58
MP-25	13.34
MP-26	13.34
MP-27	13.58
MP-28	13.58
MP-29A	5.61
MP-29B	9.50
MP-29C	52.45
MP-29D	76.36
MP-30A	8.80
MP-30B	14.13
MP-30C	91.18
MP-31A	4.63
MP-31B	8.25
MP-31C	69.87
MP-32A	6.63
MP-32B	14.50
MP-32C	88.96
MP-33A	4.63
MP-33B	6.72
MP-33C	12.28
MP-33D	82.10
MP-34A	7.51
MP-34B	11.44
MP-34C	80.81
MP-35A	4.63
MP-35B	8.02
MP-35 C	11.86
MP-35D	79.69
MP-36A	6.02
MP-36B	13.67
MP-36C	81.36
MP-37A	6.26
MP-37B	10.56
MP-37C	51.34
MP-37D	73.58
MP-38A	6.02
MP-38B	10.75
MP-38C	71.72
MP-39A	6.02
MP-39B	12.28
MP-39C	80.99
MP-40A	5.33

TABLE 2-4
AIR PURGE VOLUMES

Hartford Working Group
Hartford, Illinois

VMP/VP/MP ID	Three Air Purge Volumes (L)
MP-40B	13.99
MP-40C	90.26
MP-41A	6.49
MP-41B	12.05
MP-41C	82.47
MP-42A	8.34
MP-42B	13.21
MP-42C	72.65
MP-43A	4.03
MP-43B	8.11
MP-43C	66.16
MP-44A	4.63
MP-44B	6.95
MP-44C	11.58
MP-44D	82.47
MP-45A	6.02
MP-45B	11.21
MP-45C	80.95
MP-46A	6.95
MP-46B	11.35
MP-46C	76.91
MP-47A	6.72
MP-47B	10.56
MP-47C	70.98
MP-48A	9.04
MP-48B	14.36
MP-48C	88.40
MP-49A	5.33
MP-49B	11.35
MP-49C	79.69
MP-50A	6.95
MP-50B	11.37
MP-50C	81.55
MP-51A	4.73
MP-51B	7.18
MP-51C	11.58
MP-51D	79.69
MP-52A	4.87
MP-52B	10.56
MP-53A	5.56
MP-53B	11.58
MP-54A	5.98
MP-54B	11.58
MP-54C	85.62
MP-55A	8.02
MP-55B	11.26
MP-55C	80.06
MP-56A	5.33
MP-56B	12.97
MP-56C	82.84
MP-57A	6.95
MP-57B	11.35
MP-57C	82.10
MP-58A	4.87
MP-58B	9.96

TABLE 2-4
AIR PURGE VOLUMES

Hartford Working Group
Hartford, Illinois

VMP/VP/MP ID	Three Air Purge Volumes (L)
MP-58C	72.65
MP-59A	4.40
MP-59B	8.80
MP-59C	68.02
MP-60A	4.63
MP-60B	9.82
MP-60C	68.02
MP-61A	4.87
MP-61B	10.05
MP-61C	68.02
MP-62A	4.63
MP-62B	8.57
MP-62C	68.02
MP-63A	4.87
MP-63B	9.36
MP-63C	68.02
MP-64A	4.63
MP-64B	10.19
MP-64C	68.02
MP-65A	7.78
MP-65B	11.82
MP-65C	73.58
MP-66A	6.95
MP-66B	12.05
MP-66C	73.58
MP-67A	4.82
MP-67B	12.05
MP-67C	73.58
MP-68	7.88
MP-69	7.65
MP-70	7.65
MP-71	7.41
MP-72	7.41
MP-73	7.81
MP-74	8.29
MP-75	8.50
MP-76	8.04

TABLE 3-1
VMP SOIL SAMPLE ANALYTICAL RESULTS

Hartford Working Group
Hartford, Illinois

Sample ID and Depth interval (ft. bgs)	VMP-27D (25-27.5)	VMP-54 (2.5-5)	VMP-54 (22.5-25)	VMP-55 (2.5-5)	VMP-55 (12.5-15)	VMP-56 (10-12.5)	VMP-56 (17.5-20)	VMP-57 (11.5-14)	VMP-58 (2.5-5)	VMP-58 (10-12.5)	VMP-59 (10-12.5)	VMP-59 (20-22.5)	VMP-60 (2-4)
Date	12-Jan-05	11-Jan-05	11-Jan-05	10-Jan-05	10-Jan-05	10-Jan-05	10-Jan-05	02-Feb-05	11-Jan-05	11-Jan-05	12-Jan-05	12-Jan-05	11-Jan-05
PID/FID	67.3 / 5,614	53.1 / 2,341	63.7 / 4,310	2.1/175	0.5 /300	71 / 3200	688 /6.01%	10.51 / 1,138	27 / 460	10.7 / 820	810 / 6.94%	16.66 / 146	-0.43 / 143
ASTM D2974	%	%	%	%	%	%	%	%	%	%	%	%	%
Percent Moisture	21.3	18.3	16.7	19.9	23.5	24.9	27.9	25.1	19.7	20	27.9	27.4	20.5
Standard Method 18th Ed 2540G	%	%	%	%	%	%	%	%	%	%	%	%	%
Total Solids	78.7	81.7	83.3	80.1	76.5	75.1	72.1	74.9	80.3	80	72.1	72.6	79.5
SW-846 5035, 8260B	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
BENZENE	46.5	1.2 J	35	1.1 J	1.4 J	1.6	271	38.9	5	4	2,660	10,900	1.3 U
ETHYL BENZENE	6.2 J	6.2 U	5.5 J	5.5 J	6.8 J	6.2 J	210	6.2 J	5.9 U	131	1,760	65,400	6.7 U
METHYL TERT-BUTYL ETHER	2.5 U	2.5 U	2.2 J	2.2 U	2.7 U	2.5 U	64 U	2.5 U	2.4 U	1.9 U	201 U	399 U	2.7 U
TOLUENE	6.2 J	6.2 J	7.9	6	6.8 J	8.1	160 J	6.2 U	5.9 J	4.8 J	502 J	1,700	6.7 U
XYLENES (total)	20.1	6.2 J	9.6	10.2	6.8 J	13.3	183	6.2 J	5.9 J	409	3,160	71,400	6.7 J
SW-846 5035, 8260B	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TPH - GRO	5.86	1.6	2.78	1.11 J	1.36 J	6.24	1,020	2.75	1.18 U	8.98	1,340	3,320	1.35 U
SW-846 3550B, 8270C	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TPH-DRO	15.1 J	14.4 J	14.2 J	14.7 U	15.5 U	112	517	16 J	14.6 J	14.7 J	959	1,180	15 J

ft. bgs - Feet below ground surface.
VMP - Vapor Monitoring Point
TPH - Total Petroleum Hydrocarbon
GRO - Gasoline Range Organics
DRO - Diesel Range Organics
PID/FID Readings - obtained with TVA 1000
PID/FID Readings - in parts per million (ppm)
ug/kg - Micrograms per kilogram.
mg/kg - Milligrams per kilogram.
FO - Flame-out of FID
J - Analyte detected below reporting limits
U - Not detected at the reporting limit.

TABLE 3-1
VMP SOIL SAMPLE ANALYTICAL RESULTS

Hartford Working Group
Hartford, Illinois

Sample ID and Depth interval (ft. bgs)	VMP-60 (4) Dup	VMP-60 (17.5-20)	VMP-60 (17.5-20) Dup	VMP-61 (22.5-25)	VMP-62 (2.5-5)	VMP-62 (7.5-10)	VMP-63 (17.5-20)	VMP-64 (7.5-10)	VMP-64 (10 12.5)	VMP-65 (20-22.5)	VMP-65 (30-35)	VMP-66 (10-12.5)	VMP-66 (22.5-25)
Date	11-Jan-05	11-Jan-05	11-Jan-05	12-Jan-05	07-Jan-05	07-Jan-05	11-Jan-05	04-Jan-05	04-Jan-05	29-Dec-04	29-Dec-04	27-Dec-04	27-Dec-04
PID/FID	-0.43 / 143	6.45 / 63.66	6.45 / 63.66	0.83 / 2.69	0 / 35	0 / 70.7	0.02 / -0.29	0.03 / 25.58	0.38 / 8.54	702 / NA	900 / 18%	1.62 / 13.16	0 / 0.43
ASTM D2974	%	%	%	%	%	%	%	%	%	%	%	%	%
Percent Moisture	20.6	27.4	24.8	20	25.2	20.8	23.8	26.7	23.4	21.2	10.6	19.7	7.6
Standard Method 18th Ed 2540G	%	%	%	%	%	%	%	%	%	%	%	%	%
Total Solids	79.4	72.6	75.2	80	74.8	79.2	76.2	73.3	76.6	78.8	89.4	80.3	92.4
SW-846 5035, 8260B	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
BENZENE	1.2 U	29.2 J	29 U	2.6	1.3 J	1 J	1.1 J	1.3	1.3 J	70,200	209,000	1.9	1.2
ETHYL BENZENE	6.2 U	14.6 U	149 U	5.8 J	6.4 U	5.1 U	5.6 U	6.5 J	6.5 U	136,000	400,000	5.5 J	5.6 U
METHYL TERT-BUTYL ETHER	2.5 U	58.5 U	57.9 U	2.3 U	2.6 U	2 U	2.2 U	2.6 U	2.6 U	12,600 U	11,400 U	2.2 U	2.2 U
TOLUENE	6.2 U	146 J	145 U	5.8 J	6.4 J	5.1 J	5.6 J	6.5 J	6.5 J	380,000	1,110,000	5.5 J	5.6 J
XYLENES (total)	6.2 J	146 J	145 U	5.8 J	6.4 J	5.1 J	5.6 J	8	6.5 J	589,000	1,750,000	8.9	5.6 J
SW-846 5035, 8260B	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TPH - GRO	1.24 U	29.2 J	37.4	1.16 U	1.28 U	1.02 U	1.12 U	1.29 J	1.3 J	9,500	26,000	1.11 J	1.12 U
SW-846 3550B, 8270C	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TPH-DRO	15 J	889	462	14.6 J	16 J	15 U	15.6 U	16.5 U	15.4 U	2,760	9,870	15.1 J	13 J

ft. bgs - Feet below ground surface.
VMP - Vapor Monitoring Point
TPH - Total Petroleum Hydrocarbon
GRO - Gasoline Range Organics
DRO - Diesel Range Organics
PID/FID Readings - obtained with TVA 1000
PID/FID Readings - in parts per million (ppm)
ug/kg - Micrograms per kilogram.
mg/kg - Milligrams per kilogram.
FO - Flame-out of FID
J - Analyte detected below reporting limits
U - Not detected at the reporting limit.

TABLE 3-1
VMP SOIL SAMPLE ANALYTICAL RESULTS

Hartford Working Group
Hartford, Illinois

Sample ID and Depth interval (ft. bgs)	VMP-67 (15-17.5)	VMP-67 (23.5-25)	VMP-68 (17.5-20)	VMP-68 (22.5-25)	VMP-69 (12.5-15)	VMP-69 (22.5-25)	VMP-70 (17.5-20)	VMP-70 (25-27.5)	VMP-71 (10-12.5)	VMP-71 (22.5-25)	VMP-72 (4-6)	VMP-72 (25-26)	VMP-73 (17.5-20)
Date	27-Dec-04	27-Dec-04	28-Dec-04	28-Dec-04	28-Dec-04	28-Dec-04	03-Jan-05	03-Jan-05	29-Dec-04	29-Dec-04	27-Dec-04	27-Dec-04	27-Dec-04
PID/FID	875 / 23,100	813 / >23,900	404 / >24.66%	195 / >24.86%	1,157 / 3.89%	>1413/>31.9%	1,137 / 7,400	1,973 / 1.13%	440 / FO	480 / FO	0 / 0	0 / 0	19.47 / 123
ASTM D2974	%	%	%	%	%	%	%	%	%	%	%	%	%
Percent Moisture	16.9	24.4	14.4	20.8	13.6	10.4	25.3	25.6	17.4	19.8	17.9	10.4	17.5
Standard Method 18th Ed 2540G	%	%	%	%	%	%	%	%	%	%	%	%	%
Total Solids	83.1	75.6	85.6	79.2	86.4	89.6	74.7	74.4	82.6	80.2	82.1	89.6	82.5
SW-846 5035, 8260B	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
BENZENE	6,490	64,100	19,300	123,000	3,050	46,600	855	9,940	98,600	125,000	1.2 U	2.2	131
ETHYL BENZENE	17,600	116,000	79,800	234,000	68,800	101,000	5,060	12,200	252,000	219,000	6.1 U	6.2 J	110
METHYL TERT-BUTYL ETHER	1,250 U	2,750 U	4,840 U	10,700 U	1,360 U	5,610 U	484 U	1,100 U	11,800 U	12,800 U	2.5 U	2.5 U	2.8 J
TOLUENE	37,600	364,000	186,000	674,000	19,400	305,000	6,670	7,350	521,000	557,000	6.1 U	6.2 J	198
XYLENES (total)	73,500	515,000	381,000	1,120,000	298,000	487,000	21,100	44,000	1,030,000	959,000	6.1 U	6.2 J	473
SW-846 5035, 8260B	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TPH - GRO	1,140	8,680	6,320	19,900	4,590	7,740	481	783	16,600	15,000	1.23 U	1.25 U	5.35
SW-846 3550B, 8270C	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TPH-DRO	168	1,070	262	1,260	450	330	16.2 J	16.3 J	4,380	1,180	14.8 J	13.4 J	14.7 J

ft. bgs - Feet below ground surface.
VMP - Vapor Monitoring Point
TPH - Total Petroleum Hydrocarbon
GRO - Gasoline Range Organics
DRO - Diesel Range Organics
PID/FID Readings - obtained with TVA 1000
PID/FID Readings - in parts per million (ppm)
ug/kg - Micrograms per kilogram.
mg/kg - Milligrams per kilogram.
FO - Flame-out of FID
J - Analyte detected below reporting limits
U - Not detected at the reporting limit.

TABLE 3-1
VMP SOIL SAMPLE ANALYTICAL RESULTS

Hartford Working Group
Hartford, Illinois

Sample ID and Depth interval (ft. bgs)	VMP-73 (27-28)	VMP-74 (15-17.5)	VMP-74 (22.5-25)	VMP-75 (12.5-15)	VMP-75 (20-22.5)	VMP-76 (15-17.5)	VMP-76 (20-22.5)	VMP-77 (2.5-5)	VMP-77 (20-22.5)	VMP-78 (15-17.5)	VMP-78 (22.5-25)	VMP-79 (15-17.5)	VMP-79 (22.5-25)
Date	27-Dec-04	03-Jan-05	03-Jan-05	29-Dec-04	29-Dec-04	29-Dec-04	29-Dec-04	12-Jan-05	12-Jan-05	04-Jan-05	04-Jan-05	30-Dec-04	30-Dec-04
PID/FID	NA / NA	1,056 / 4.02%	978 / 18.24%	207 / FO	244 / 4.08%	962 / FO	735 / FO	16.7 / 1,045	480 / 6,148	43 / 182	1,465 / 3%	3 / 23.2	293 / 4.69%
ASTM D2974	%	%	%	%	%	%	%	%	%	%	%	%	%
Percent Moisture	5.4	13.9	17	12.5	22.4	26.2	18.6	10.7	4	17.8	11.5	5.5	9.2
Standard Method 18th Ed 2540G	%	%	%	%	%	%	%	%	%	%	%	%	%
Total Solids	94.6	86.1	83	87.5	77.6	73.8	81.4	89.3	96	82.2	88.5	94.5	90.8
SW-846 5035, 8260B	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
BENZENE	36,100	2,830	245,000	47,700	91,800	8,810	173,000	1.2 U	387	12.4	2,560	3.29	3.4
ETHYL BENZENE	59,100	49,400	406,000	118,000	178,000	8,700	216,000	5.8 U	796	8.7	69,900	7.2 J	7.4 J
METHYL TERT-BUTYL ETHER	1,190 U	2,790 U	12,100 U	13,100 U	13,700 U	246 U	11,300 U	2.3 U	67.3 U	2.7 U	2,530 U	2.9 U	3 U
TOLUENE	163,000	48,900	1,320,000	294,000	528,000	30,000	754,000	5.8 U	992	21.6	43,200	13.1	12.6
XYLENES (total)	258,000	227,000	1,730,000	505,000	789,000	38,600	969,000	5.8 J	3,470	24.1	311,000	11	9.9
SW-846 5035, 8260B	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TPH - GRO	3,950	2,420	29,700	7,380	11,100	614	14,900	1.16 U	36.8	1.84	3,380	1.44 U	1.49 U
SW-846 3550B, 8270C	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TPH-DRO	439	163	1,870	1,540	1,010	15.9 J	1,300	13.3 J	12.3 J	14.7 J	316	12.7 J	13.2 U

ft. bgs - Feet below ground surface.
VMP - Vapor Monitoring Point
TPH - Total Petroleum Hydrocarbon
GRO - Gasoline Range Organics
DRO - Diesel Range Organics
PID/FID Readings - obtained with TVA 1000
PID/FID Readings - in parts per million (ppm)
ug/kg - Micrograms per kilogram.
mg/kg - Milligrams per kilogram.
FO - Flame-out of FID
J - Analyte detected below reporting limits
U - Not detected at the reporting limit.

TABLE 3-1
VMP SOIL SAMPLE ANALYTICAL RESULTS

Hartford Working Group
Hartford, Illinois

Sample ID and Depth interval (ft. bgs)	VMP-79 (22.5-25) DUP	VMP-80 (6-8)	VMP-80 (27.5-30)	VMP-81 (15-17.5)	VMP-81 (15-17.5) D	VMP-81 (27.5-30)	VMP-81 (27.5-30) D	VMP-82 (10-12.5)	VMP-82 (25-27.5)	VMP-83 (10-12.5)	VMP-83 (20 22.5)	VMP-84 (27.5-30)	VMP-85 (12.5-15)
Date	30-Dec-04	30-Dec-04	30-Dec-04	30-Dec-04	30-Dec-04	30-Dec-04	30-Dec-04	10-Jan-05	10-Jan-05	10-Jan-05	10-Jan-05	06-Jan-05	07-Jan-05
PID/FID	293 / 4.69%	23.94 / 186	1,768 / 8%	20.12 / 148	20.12 / 148	2,101 / 30%	2,101 / 30%	1.9 / 21.65	0.34 / 3.09	0 / 0	0 / 0	-0.38 / 3.45	0.2 / 0.2
ASTM D2974	%	%	%	%	%	%	%	%	%	%	%	%	%
Percent Moisture	10.8	28.3	4.2	10.1	9.7	4.3	4.3	8.8	22.7	15	22.6	13.6	20.8
Standard Method 18th Ed 2540G	%	%	%	%	%	%	%	%	%	%	%	%	%
Total Solids	89.2	71.7	95.8	89.9	90.3	95.7	95.7	91.2	77.3	85	77.4	86.4	79.2
SW-846 5035, 8260B	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
BENZENE	3.72	16.2	8,040	346	10	11,300	6,960	23.2	6.3	4.7	11.8	1.7	1.2 J
ETHYL BENZENE	8.3 J	6.3 J	65,100	159 J	5.9 J	60,600	42,800	18.7	6.3	6.2 J	6.5	5.9 J	6.2 U
METHYL TERT-BUTYL ETHER	3.4 U	2.5 U	2,280 U	63.6 U	2.4 U	10,100 U	4,980 U	2.4 U	2.4 U	2.5 U	2.6 U	2.3 U	2.5 U
TOLUENE	15.7	6.3 J	128,000	624	7	120,000	85,400	19.2	10.1	10.3	7.9	5.9 J	6.2 U
XYLENES (total)	14.2	13.2	305,000	219	15.6	293,000	205,000	42.9	6.7	11.3	6.4	5.9 J	6.2 U
SW-846 5035, 8260B	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TPH - GRO	1.67 J	1.26 J	3,240	31.8 J	1.18 J	5,030 J	2,500 J	1.22 J	1.2 U	1.25 J	1.29 J	1.17 U	1.24 U
SW-846 3550B, 8270C	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TPH-DRO	13.2 U	16.6 J	193	13.1 J	13.1 J	130	98.3	13.1 U	15.5 U	14 U	15.5 U	14 J	15.2 U

ft. bgs - Feet below ground surface.
VMP - Vapor Monitoring Point
TPH - Total Petroleum Hydrocarbon
GRO - Gasoline Range Organics
DRO - Diesel Range Organics
PID/FID Readings - obtained with TVA 1000
PID/FID Readings - in parts per million (ppm)
ug/kg - Micrograms per kilogram.
mg/kg - Milligrams per kilogram.
FO - Flame-out of FID
J - Analyte detected below reporting limits
U - Not detected at the reporting limit.

TABLE 3-1
VMP SOIL SAMPLE ANALYTICAL RESULTS

Hartford Working Group
Hartford, Illinois

Sample ID and Depth interval (ft. bgs)	VMP-85 (17.5-20)	VMP-86 (15-17.5)	VMP-86 (27.5-30)	VMP-88 (13-14)	VMP-89 (18-19)	VMP-90 (11-12)	VMP-91 (9-10)	VMP-92 (13-14)	VMP-93 (9-10)	VMP-94 (12-13)	VMP-94 (18-19)
Date	07-Jan-05	06-Jan-05	06-Jan-05	15-Feb-05	15-Feb-05	15-Feb-05	16-Feb-05	15-Feb-05	15-Feb-05	16-Feb-05	16-Feb-05
PID/FID	0.4 / 0.3	-0.39 / 0.52	-0.41 / 1.39	0.3 / 0	420 / 3,500	256 / 2,900	0 / 0	11 /16	4.4 / 0.2	605 / 18,000	950 / 23,000
ASTM D2974	%	%	%	%	%	%	%	%	%	%	%
Percent Moisture	17.4	16.3	5	21.9	19	26.3	21.9	25.3	25.5	19.7	25
Standard Method 18th Ed 2540G	%	%	%	%	%	%	%	%	%	%	%
Total Solids	82.6	83.7	95	78.1	81	73.7	78.1	74.7	74.5	80.3	75
SW-846 5035, 8260B	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
BENZENE	2.8	1.1 J	1.2 J	3.3	755 U	3,990	2.4	3.1	3.7	571 U	149,000
ETHYL BENZENE	6 J	5.5 U	6 U	5.9 J	46,300	25,200	5.3 J	5.1 J	5.6 J	87,000	823,000
METHYL TERT-BUTYL ETHER	2.4 U	2.2 U	2.4 U	2.4 U	1,510 U	1,120 U	2.1 U	2 U	2.2 U	1,140 U	1,180 U
TOLUENE	7.7	5.5 U	6 J	7.3	3,770 J	12,300	5.6	7.4	11.9	3,070	90,700
XYLENES (total)	6.8	5.5 J	6 J	6.2 U	815,000 U	124,000 U	5.8	6.6 U	10.1	328,000	289,000
SW-846 5035, 8260B	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TPH - GRO	1.2 U	1 U	1.2 U	1.18 J	7,670	1,280	1.06 U	1.02 J	1.12 U	5,040	5,120
SW-846 3550B, 8270C	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TPH-DRO	14.3 U	14.5 U	12.6 U	15.3 U	1,610	18.4	15.3 U	15.8 U	16.2 U	764	71.8

ft. bgs - Feet below ground surface.
VMP - Vapor Monitoring Point
TPH - Total Petroleum Hydrocarbon
GRO - Gasoline Range Organics
DRO - Diesel Range Organics
PID/FID Readings - obtained with TVA 1000
PID/FID Readings - in parts per million (ppm)
ug/kg - Micrograms per kilogram.
mg/kg - Milligrams per kilogram.
FO - Flame-out of FID
J - Analyte detected below reporting limits
U - Not detected at the reporting limit.

TABLE 3-2
GEOTECHNICAL SOIL SAMPLE ANALYTICAL RESULTS

Hartford Working Group
Hartford, Illinois

Sample Label (depth interval ft bgs)	Water Content (%)	Dry Bulk Density (g/cc)	Specific Gravity	Total Porosity (%)	Water Filled Porosity (%)	Air Filled Porosity (%)	Gravel Content (%)	Sand Content (%)	Silt Content (%)	Clay Content (%)	Lithology Description*
Vapor Monitoring Point (VMP) Borings											
VMP-57 (13-13.5)	NT	NT	NT	NT	NT	NT	0	16	66	18	Gray-Brown Silty **CLAY**, with Sand, CL
VMP-66 (12.5-15)	NT	NT	NT	NT	NT	NT	0	11	77	12	Gray-Brown **SILT**, ML
VMP-67 (27.5-30)	NT	NT	NT	NT	NT	NT	0	37	50	13	Gray Sandy **SILT**, ML
VMP-70 (35-37)	NT	NT	NT	NT	NT	NT	0	97	3	0	Brown Fine **SAND**, SP
VMP-75 (4-6)	24.1	1.547	2.70	42.7	37.2	5.5	0	22	37	41	Gray-Brown Silty **CLAY**, with Sand, CL
VMP-75 (10-12)	17.3	1.370	2.69	49.1	23.7	25.4	0	32	59	9	Brown Sandy **SILT**, ML
VMP-88 (13-14)	NT	NT	NT	NT	NT	NT	0	3	75	22	Gray-Brown **SILT**, ML
VMP-89 (10-10.5)	NT	NT	NT	NT	NT	NT	0	2	27	71	Gray-Brown **CLAY**, CH
VMP-89 (14-15)	NT	NT	NT	NT	NT	NT	0	1	75	24	Gray-Brown Silty **CLAY**, ML/CL
VMP-90 (9-10)	NT	NT	NT	NT	NT	NT	0	14	69	17	Dark Gray **SILT**, ML
VMP-92 (12.5-13.5)	NT	NT	NT	NT	NT	NT	0	1	69	30	Gray-Brown Silty **CLAY**, ML/CL
VMP-93 (9-10)	NT	NT	NT	NT	NT	NT	0	8	75	17	Brown **SILT**, ML
VMP-94 (12-13)	NT	NT	NT	NT	NT	NT	0	6	70	24	Dark Gray **SILT**, ML
VMP-94 (14-14.5)	NT	NT	NT	NT	NT	NT	0	45	43	12	Dark Gray-Brown Sandy **SILT**, ML
GeoProbe (GP) Borings											
GP-4 (5-6)	27.2	1.511	2.59	41.7	41.2	0.5	0	2	50	48	Dark Gray-Brown **CLAY**, CH
GP-6 (5-6)	28.3	1.452	2.62	44.6	41.0	3.6	0	4	50	46	Dark Gray-Brown **CLAY**, CH
GP-27 (3-6)	28.7	1.423	NT	NT	NT	NT	0	11	68	21	Very Dark Gray Clayey **SILT**, ML/CL

Key:
* - Based on physical characteristics (ASTM-D2488) observed by Shively Geotechnical Inc.
bgs - below ground surface.
g/cc - grams per cubic centimeter.
Silt Content - grain-size range (0.074-0.005 mm); mm = millimeter.
Clay Content - grain-size scale range (<0.005 mm).
NT - Not Tested.

TABLE 3-3A
ACTIVE SOIL VAPOR ANALYTICAL RESULTS (ppbv)
VMP1 Through VMP-54
January 2005-March 2005

Hartford Working Group
Hartford, Illinois

Location ID	VMP-1	VMP-1	VMP-2	VMP-3	VMP-6	VMP-6	VMP-6	VMP-7	VMP-9	VMP-10	VMP-12	VMP-12	VMP-15	VMP-15	VMP-15	VMP-15	VMP-17	VMP-17
Port ID	VMP-1D	VMP-1S	VMP-2D	VMP-3	VMP-6M	VMP-6S	VMP-6S	VMP-7	VMP-9	VMP-10	VMP-12M	VMP-12VS	VMP-15D	VMP-15M	VMP-15S	VMP-15S	VMP-17D	VMP-17M
Sample Date	1/13/2005	1/13/2005	1/13/2005	1/13/2005	2/21/2005	2/21/2005	2/21/2005	1/18/2005	2/21/2005	1/18/2005	1/14/2005	1/14/2005	1/10/2005	1/10/2005	1/6/2005	1/10/2005	1/12/2005	1/12/2005
Sample ID	011305-VMP-1D	011305-VMP-1S	011305-VMP-2D	011305-VMP-3	022105-VMP-6M	022105-VMP-6S	022105-VMP-6S DUP	011805-VMP-7	022105-VMP-9	011805-VMP-10	011405-VMP-12M	011405-VMP-12VS	011005-VMP-15D	011005-VMP-15M	010605-VMP15-S	011005-VMP-15S	011205-VMP-17D	011205-VMP-17M
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method D1946	%	%	%	%	%	%	%	%	%	%	%	%	%	%	ppmv	%	%	%
CARBON DIOXIDE	15	0.29	16	17	14	14	14	21	8.6	2	2.6	1.2	8.2	14		15	14	12
METHANE	65	0.5	32	10	37	53	54	37	21	0.89	28	1.4	54	46		48	0.28	0.00016 U
METHANE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	490,000	-	-	-
OXYGEN	0.64	20	1.1	4.5	0.63	0.47	0.42	1.6	6.1	17	5	11	0.48	0.62		0.96	1.6	4.2
Analytical Method TO14	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1-BUTENE	1,100 U	4.4 U	760 U	1,300 U	6,400	2,900 U	3,000 U	1,600 U	560 U	12,000	44 U	11	2,800,000	2,300,000	-	1,100,000	3.3 U	3.3 U
ACETYLENE	2,800 U	11 U	1,900 U	3,300 U	4,700 U	7,300 U	7,400 U	4,100 U	1,400 U	360 U	110 U	16 U	52,000 U	51,000 U	-	36,000 U	8.2 U	8.2 U
BUTANE	4,200,000	1,100	63,000	4,700,000	8,000,000	11,000,000	10,000,000	7,200,000	2,100,000	640,000	6,300	570	100,000,000	96,000,000	-	71,000,000	8.2 U	8.2 U
CIS-2-BUTENE	1,100 U	4.4 U	760 U	3,400	20,000	13,000	12,000	1,600 U	560 U	41,000	44 U	7.1	5,400,000	4,600,000	-	2,300,000	3.3 U	3.3 U
ETHANE	120,000	300	150,000	54,000	76,000	100,000	97,000	77,000	38,000	520	2,300	190	970,000	680,000	-	760,000	17	8.2 U
ETHENE	2,800 U	11 U	1,900 U	3,300 U	4,700 U	7,300 U	7,400 U	4,100 U	1,400 U	1,200	260	43	620,000	330,000	-	190,000	8.2 U	8.2 U
ISOBUTANE	2,900,000	680	2,900,000	1,600,000	2,300,000	3,400,000	3,200,000	2,100,000	1,600,000	110,000	190,000	27,000	42,000,000	38,000,000	-	29,000,000	3.3 U	3.3 U
PROPANE	58,000	26	180,000	120,000	54,000	75,000	73,000	130,000	31,000	3,900	980	200	5,500,000	4,700,000	-	3,900,000	8.2 U	8.2 U
PROPYLENE	2,800 U	11 U	1,900 U	3,300 U	4,700 U	7,300 U	7,400 U	4,100 U	1,400 U	360 U	130	44	140,000	100,000	-	54,000	8.2 U	8.2 U
TRANS-2-BUTENE	1,100 U	5.8	760 U	12,000	51,000	41,000	39,000	2,500	1,100	46,000	44 U	6.2 U	6,700,000	5,700,000	-	3,000,000	3.3 U	3.3 U
Analytical Method TO15	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1,2,4-TRIMETHYLBENZENE	43,000 U	8.8 U	33,000 U	38,000 U	62,000 U	49,000 U	50,000 U	57,000 U	28,000 U	88,000	1,600 U	420 U	140,000 U	220,000 U	190,000 U	120,000 U	0.82 U	0.82 U
1,3,5-TRIMETHYLBENZENE	43,000 U	8.8 U	33,000 U	38,000 U	62,000 U	49,000 U	50,000 U	57,000 U	28,000 U	37,000	1,600 U	420 U	140,000 U	220,000 U	190,000 U	120,000 U	0.82 U	0.82 U
1,3-BUTADIENE	43,000 U	8.8 U	33,000 U	38,000 U	62,000 U	49,000 U	50,000 U	57,000 U	28,000 U	4,800 U	1,600 U	420 U	140,000 U	220,000 U	190,000 U	120,000 U	0.82 U	0.82 U
BENZENE	43,000 U	8.8 U	33,000 U	38,000 U	140,000	230,000	260,000	57,000 U	28,000 U	310,000	1,600 U	420 U	700,000	630,000	820,000	570,000	0.82 U	0.82 U
ETHYL BENZENE	43,000 U	8.8 U	33,000 U	38,000 U	62,000 U	49,000 U	50,000 U	57,000 U	28,000 U	180,000	1,600 U	420 U	140,000 U	220,000 U	190,000 U	120,000 U	0.82 U	0.82 U
HEXANE	43,000 U	8.8 U	33,000 U	270,000	950,000	1,200,000	1,200,000	220,000	28,000 U	740,000	3,700	420 U	2,000,000	1,800,000	1,900,000	1,800,000	0.82 U	0.82 U
ISOPENTANE	12,000,000	2,100	9,600,000	6,100,000	14,000,000	18,000,000 J	19,000,000	18,000,000	4,800,000 J	1,500,000	560,000	100,000	44,000,000	42,000,000	43,000,000	30,000,000	0.82 U	0.82 U
M,P-XYLENE	43,000 U	8.8 U	33,000 U	38,000 U	62,000 U	49,000 U	50,000 U	57,000 U	28,000 U	600,000	1,600 U	420 U	140,000 U	220,000 U	190,000 U	120,000 U	0.82 U	0.82 U
O-XYLENE	43,000 U	8.8 U	33,000 U	38,000 U	62,000 U	49,000 U	50,000 U	57,000 U	28,000 U	190,000	1,600 U	420 U	140,000 U	220,000 U	190,000 U	120,000 U	0.82 U	0.82 U
TOLUENE	43,000 U	8.8 U	33,000 U	38,000 U	62,000 U	49,000 U	50,000 U	57,000 U	28,000 U	1,100,000	1,600 U	420 U	160,000	220,000 U	190,000 U	120,000	0.82 U	0.82 U
Analytical Method TO15 (rerun)	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
BENZENE	3,500	-	840	410	-	-	-	-	1,600	-	3,300	5.9	-	-	-	-	-	-
ETHYL BENZENE	210 U	-	110 U	110 U	-	-	-	-	11 U	-	160 U	5.0 U	-	-	-	-	-	-
M,P-XYLENE	210 U	-	110 U	110 U	-	-	-	-	290	-	1,200	5.0 U	-	-	-	-	-	-
O-XYLENE	210 U	-	110 U	110 U	-	-	-	-	11 U	-	700	5.0 U	-	-	-	-	-	-
TOLUENE	360	-	590	160	-	-	-	-	11 U	-	2,300	5.0 U	-	-	-	-	-	-

Notes:
%-result is reported as a percent
U-compound was analyzed for but not detected above reporting limit
J-Estimated value, analyte detected below reporting limit
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-3A
ACTIVE SOIL VAPOR ANALYTICAL RESULTS (ppbv)
VMP1 Through VMP-54
January 2005-March 2005

Hartford Working Group
Hartford, Illinois

Location ID	VMP-18	VMP-18	VMP-18	VMP-18	VMP-19	VMP-19	VMP-19	VMP-20	VMP-20	VMP-20	VMP-20	VMP-21	VMP-21	VMP-21	VMP-21	VMP-22	VMP-22
Port ID	VMP-18D	VMP-18D	VMP-18M	VMP-18S	VMP-19D	VMP-19M	VMP-19S	VMP-20D	VMP-20M	VMP-20M	VMP-20S	VMP-21D	VMP-21M	VMP-21M	VMP-21S	VMP-22D	VMP-22M
Sample Date	1/11/2005	1/11/2005	2/21/2005	1/11/2005	1/13/2005	1/13/2005	1/13/2005	1/17/2005	1/17/2005	1/17/2005	1/17/2005	1/14/2005	1/14/2005	1/14/2005	1/14/2005	1/18/2005	1/18/2005
Sample ID	011105-VMP-18D	011105-VMP-18D DUP	022105-VMP-18M	011105-VMP-18S	011305-VMP-19D	011305-VMP-19M	011305-VMP-19S	011705-VMP-20D	011705-VMP-20M	011705-VMP-20M-Dup	011705-VMP-20S	011405-VMP-21D	011405-VMP-21M	011405-VMP-21M-Dup	011405-VMP-21S	011805-VMP-22D	011805-VMP-22M
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method D1946	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
CARBON DIOXIDE	13	17	5.2	3.4	2.4	3.3	4.2	11	11	11	9.2	0.039	0.046	0.049	8.8	0.039	21
METHANE	0.00016 U	0.00016 U	0.00015 U	0.00028	0.00026	0.00017	0.024	0.00015 U	0.00015 U	0.00014 U	0.00014 U	0.00022 U	0.00022	0.00023	9.7	0.00023 U	36
METHANE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OXYGEN	11	1.4	12	6.9	18	17	1.8	10	10	10	10	19	20	21	2.9	21	0.82
Analytical Method TO14	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1-BUTENE	3.2 U	3.1 U	2.9 U	3.0 U	3.2 U	2.9 U	2.9 U	2.9 U	3.0 U	2.9 U	2.8 U	4.3 U	4.1 U	53	1,100	4.7 U	430 U
ACETYLENE	8.0 U	7.8 U	7.3 U	7.6 U	7.9 U	7.3 U	7.3 U	7.3 U	7.6 U	7.2 U	7.0 U	11 U	10 U	11 U	2,000 U	12 U	1,100 U
BUTANE	8.0 U	7.8 U	7.3 U	8.9	45	7.3 U	7.3 U	14	61	7.2 U	40	72	20	1,600	3,900,000	100	170,000
CIS-2-BUTENE	3.2 U	3.1 U	2.9 U	3.0 U	3.2 U	2.9 U	2.9 U	2.9 U	3.0 U	2.9 U	2.8 U	4.3 U	4.1 U	76	1,800	4.7 U	430 U
ETHANE	8.0 U	7.8 U	7.3 U	160	13	8.5	140	7.3 U	7.6 U	7.2 U	7.0 U	11 U	10 U	11 U	64,000	12 U	50,000
ETHENE	8.0 U	7.8 U	7.3 U	7.6 U	7.9 U	7.3 U	35	7.3 U	7.6 U	7.2 U	7.0 U	11 U	10 U	11 U	2,000 U	12 U	1100 U
ISOBUTANE	3.2 U	3.1 U	3.5	31	17	2.9 U	17	4.7	14	2.9 U	8.4	21	15	600	3,200,000	26	1,800,000
PROPANE	8.0 U	7.8 U	7.3 U	21	9	7.3 U	30	7.3 U	7.6 U	7.2 U	7.0 U	11 U	10 U	45	250,000	12 U	22,000
PROPYLENE	8.0 U	7.8 U	7.3 U	7.6 U	7.9 U	7.3 U	8.3	7.3 U	7.6 U	7.2 U	7.0 U	11 U	10 U	11 U	2,000 U	12 U	1,100 U
TRANS-2-BUTENE	3.2 U	3.1 U	2.9 U	3.0 U	3.2 U	2.9 U	2.9 U	2.9 U	3.0 U	2.9 U	2.8 U	4.3 U	4.1 U	92	6,200	4.7 U	430 U
Analytical Method TO15	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1,2,4-TRIMETHYLBENZENE	0.80 U	0.78 U	0.73 U	0.76 U	0.79 U	0.73 U	0.73 U	0.73 U	110	120	0.70 U	1.1 U	1.0 U	1.1 U	20,000 U	1.2 U	18,000 U
1,3,5-TRIMETHYLBENZENE	0.80 U	0.78 U	0.73 U	0.76 U	0.79 U	0.73 U	0.73 U	0.73 U	40	39	0.70 U	1.1 U	1.0 U	1.1 U	20,000 U	1.2 U	18,000 U
1,3-BUTADIENE	0.80 U	0.78 U	0.73 U	0.76 U	0.79 U	0.73 U	0.73 U	0.73 U	0.76 U	0.72 U	0.70 U	1.1 U	1.0 U	1.1 U	20,000 U	1.2 U	18,000 U
BENZENE	0.80 U	0.78 U	0.73 U	1.1	0.79 U	0.73 U	0.73 U	0.73 U	2.5	2.4	0.70 U	1.6	1.0 U	1.1 U	20,000 U	3.2	18,000 U
ETHYL BENZENE	0.80 U	0.78 U	0.73 U	0.76 U	0.79 U	0.73 U	0.73 U	0.73 U	75	26	0.70 U	1.1 U	1.0 U	1.1 U	20,000 U	1.2 U	18,000 U
HEXANE	1.8	1.5	0.73 U	2.4	0.79 U	0.73 U	3.2	0.73 U	3.9	4.4	0.70 U	40	1.4	1.1 U	170,000	2.7	18,000 U
ISOPENTANE	4.9	5.3	0.73 UJ	9.9	29	1.1	9.7	0.73 U	1	0.72 U	0.70 U	69	18	13	7,800,000	11	5,400,000
M,P-XYLENE	0.80 U	0.78 U	0.73 U	0.76 U	0.79 U	0.73 U	0.73 U	0.73 U	300	120	0.70 U	1.1 U	1.0 U	1.1 U	20,000 U	1.2 U	18,000 U
O-XYLENE	0.80 U	0.78 U	0.73 U	0.76 U	0.79 U	0.73 U	0.73 U	0.73 U	160	76	0.70 U	1.1 U	1.0 U	1.1 U	20,000 U	1.2 U	18,000 U
TOLUENE	0.80 U	0.78 U	0.73 U	1.1	0.79 U	0.73 U	1.2	0.73 U	76	33	0.70 U	11	3.4	2.2	20,000 U	5.3	18,000 U
Analytical Method TO15 (rerun)	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
BENZENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	490	-	1,600
ETHYL BENZENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40 U	-	720 U
M,P-XYLENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	74	-	720 U
O-XYLENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40 U	-	720 U
TOLUENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	160	-	720 U

Notes:
%-result is reported as a percent
U-compound was analyzed for but not detected above reporting limit
J-Estimated value, analyte detected below reporting limit
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-3A
ACTIVE SOIL VAPOR ANALYTICAL RESULTS (ppbv)
VMP1 Through VMP-54
January 2005-March 2005

Hartford Working Group
Hartford, Illinois

Location ID	VMP-22	VMP-23	VMP-23	VMP-24	VMP-25	VMP-26	VMP-26	VMP-26	VMP-26	VMP-26	VMP-26	VMP-26	VMP-26	VMP-26	VMP-27	VMP-27
Port ID	VMP-22S	VMP-23M	VMP-23M	VMP-24M	VMP-25M	VMP-26D	VMP-26D	VMP-26D	VMP-26D	VMP-26M	VMP-26M	VMP-26M	VMP-26M	VMP-26S	VMP-27S	VMP-27S
Sample Date	1/18/2005	1/18/2005	1/18/2005	1/18/2005	1/18/2005	1/13/2005	1/19/2005	1/19/2005	3/23/2005	1/13/2005	1/19/2005	1/20/2005	3/23/2005	3/23/2005	1/18/2005	1/18/2005
Sample ID	011805-VMP-22S	011805-VMP-23M	011805-VMP-23M-Dupe	011805-VMP-24M	011805-VMP-25M	011305-VMP-26D	011905-VMP-26D	011905-VMP-26D-Dup	032305-VMP-26 D	011305-VMP-26M	011905-VMP-26M	01205-VMP-26M	032305-VMP-26 M	032305-VMP-26 S	011805-VMP-27S-Dup	011805-VMP-27S
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method D1946	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
CARBON DIOXIDE	16	17	17	18	20	12	12	9.8	1.5	8.4	10	11	3.4	0.43	9.6	9.4
METHANE	27	65	66	70	15	2.1	2.3	2	0.00024 U	0.82	0.39	1	0.00015 U	0.00019	20	20
METHANE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OXYGEN	1.2	1.5	1.4	0.53	1.4	1.4	1.8	4.8	19	4.7	1.2	1.8	5.7	20	3.4	3.6
Analytical Method TO14	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1-BUTENE	350 U	4,100 U	4,100 U	3,500 U	50	370	960	800	4.8 U	8.4	43 U	360	2.9 U	2.8 U	600 U	600 U
ACETYLENE	860 U	10,000 U	10,000 U	8,800 U	27 U	640 U	840 U	730 U	12 U	7.8 U	110 U	300 U	7.3 U	7.0 U	1,500 U	1,500 U
BUTANE	520,000	19,000,000	18,000,000	13,000,000	3,300	1,100,000	1,500,000	1,200,000	13	16,000	180,000	500,000	7.3 U	7.0 U	41,000	38,000
CIS-2-BUTENE	350 U	11,000	10,000	3,500 U	220	3,000	8,700	7,300	4.8 U	3.5	320	900	2.9 U	2.8 U	600 U	600 U
ETHANE	45,000	120,000	120,000	120,000	56,000	16,000	19,000	16,000	12	910	3,100	7,500	7.3 U	7.0 U	98,000	93,000
ETHENE	860 U	10,000 U	10,000 U	8,800 U	140	640 U	840 U	730 U	14	7.8 U	110 U	300 U	7.3 U	7.0 U	1,500 U	1,500 U
ISOBUTANE	1,600,000	4,700,000	4,600,000	3,900,000	11,000	220,000	280,000	240,000	8	11,000	45,000	130,000	2.9 U	2.8 U	2,200,000	2,100,000
PROPANE	19,000	140,000	140,000	59,000	80	5,200	6,300	5,300	12 U	160	910	2,600	7.3 U	7.0 U	86,000	81,000
PROPYLENE	860 U	10,000 U	10,000 U	8,800 U	27 U	640 U	840 U	730 U	12 U	7.8 U	110 U	300 U	7.3 U	7.0 U	1,500 U	1,500 U
TRANS-2-BUTENE	350 U	36,000	36,000	3,500 U	250	7,800	23,000	19,000	4.8 U	8.1	880	2,400	2.9 U	2.8 U	600 U	600 U
Analytical Method TO15	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1,2,4-TRIMETHYLBENZENE	15,000 U	82,000 U	82,000 U	68,000 U	680 U	9,400 U	26,000 U	20,000 U	1.2 U	780 U	3,700 U	10,000 U	0.73 U	0.70 U	25,000 U	25,000 U
1,3,5-TRIMETHYLBENZENE	15,000 U	82,000 U	82,000 U	68,000 U	680 U	9,400 U	26,000 U	20,000 U	1.2 U	780 U	3,700 U	10,000 U	0.73 U	0.70 U	25,000 U	25,000 U
1,3-BUTADIENE	15,000 U	82,000 U	82,000 U	68,000 U	680 U	9,400 U	26,000 U	20,000 U	1.2 U	780 U	3,700 U	10,000 U	0.73 U	0.70 U	25,000 U	25,000 U
BENZENE	15,000 U	280,000	260,000	68,000 U	680 U	9,900	26,000 U	20,000 U	1.8	780 U	3,700 U	10,000 U	0.73 U	0.70 U	25,000 U	25,000 U
ETHYL BENZENE	15,000 U	82,000 U	82,000 U	68,000 U	680 U	9,400 U	26,000 U	20,000 U	1.2 U	780 U	3,700 U	10,000 U	0.73 U	0.70 U	25,000 U	25,000 U
HEXANE	15,000 U	260,000	240,000	68,000 U	680 U	460,000	820,000	600,000	20	2,800	58,000	210,000	0.73 U	0.70 U	25,000 U	25,000 U
ISOPENTANE	4,100,000	26,000,000	24,000,000	19,000,000	13,000	3,800,000	6,200,000	4,400,000	43	220,000	1,000,000	3,400,000	1.6	7.1	4,400,000	7,400,000
M,P-XYLENE	15,000 U	82,000 U	82,000 U	68,000 U	780	9,400 U	26,000 U	20,000 U	1.2 U	780 U	3,700 U	10,000 U	0.73 U	0.70 U	25,000 U	25,000 U
O-XYLENE	15,000 U	82,000 U	82,000 U	68,000 U	680 U	9,400 U	26,000 U	20,000 U	1.2 U	780 U	3,700 U	10,000 U	0.73 U	0.70 U	25,000 U	25,000 U
TOLUENE	15,000 U	82,000 U	82,000 U	68,000 U	1,900	9,400 U	26,000 U	20,000 U	1.2 U	1,800	3,700 U	10,000 U	0.73 U	0.70 U	25,000 U	25,000 U
Analytical Method TO15 (rerun)	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
BENZENE	830	-	-	-	-	-	17,000	15,000	-	54	370 U	240 U	-	-	-	-
ETHYL BENZENE	720 U	-	-	-	-	-	100 U	100 U	-	31 U	370 U	240 U	-	-	-	-
M,P-XYLENE	720 U	-	-	-	-	-	2,200	1,700	-	31 U	370 U	240 U	-	-	-	-
O-XYLENE	720 U	-	-	-	-	-	270	240	-	31 U	370 U	240 U	-	-	-	-
TOLUENE	720 U	-	-	-	-	-	2,300	2,000	-	31 U	370 U	240 U	-	-	-	-

Notes:
%-result is reported as a percent
U-compound was analyzed for but not detected above reporting limit
J-Estimated value, analyte detected below reporting limit
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-3A
ACTIVE SOIL VAPOR ANALYTICAL RESULTS (ppbv)
VMP1 Through VMP-54
January 2005-March 2005

Hartford Working Group
Hartford, Illinois

Location ID	VMP-29	VMP-29	VMP-30	VMP-30	VMP-30	VMP-30	VMP-30	VMP-31	VMP-31	VMP-31	VMP-31	VMP-32	VMP-32	VMP-32	VMP-32	VMP-32	VMP-32
Port ID	VMP-29M	VMP-29M	VMP-30D	VMP-30M	VMP-30S	VMP-30S	VMP-30VS	VMP-31AM	VMP-31D	VMP-31S	VMP-31VS	VMP-32D	VMP-32D	VMP-32M	VMP-32M	VMP-32S	VMP-32S
Sample Date	2/21/2005	3/23/2005	1/11/2005	1/11/2005	1/11/2005	1/11/2005	1/11/2005	1/13/2005	1/13/2005	1/13/2005	1/13/2005	1/12/2005	1/19/2005	1/12/2005	1/19/2005	1/12/2005	1/12/2005
Sample ID	022105-VMP-29M	032305-VMP-29 M	011105-VMP30D	011105-VMP30M	011105-VMP30S	011105-VMP30S DUP	011105-VMP30VS	011305-VMP31AM	011305-VMP31D	011305-VMP31S	011305-VMP31VS	011205-VMP32D	011905-VMP-32D	011205-VMP32M	011905-VMP-32M	011205-VMP32S	011205-VMP32S DUP
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method D1946	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
CARBON DIOXIDE	18	17	9.6	9	5	4.9	2.2	4.4	12	8.6	4.7	11	11	12	11	4.9	5
METHANE	0.0087	0.012	0.00016 U	0.00016 U	0.00015 U	0.00016 U	0.00015 U	0.00018	0.00014 U	0.00015 U	0.00014 U	1.1	1.2	1.1	1.2	0.00025 U	0.00024 U
METHANE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OXYGEN	2	1.8	9.2	9.9	14	14	14	9.3	4.9	5	14	1.4	1.9	1.5	1.4	13	13
Analytical Method TO14	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1-BUTENE	7.7	4.2	7.9	3.2 U	3.0 U	3.1 U	3.0 U	3.0 U	2.9 U	3.0 U	8.8	950 U	3,300	810 U	2,900	4.9 U	4.8 U
ACETYLENE	7.4 U	7.6 U	7.9 U	8.0 U	7.6 U	7.8 U	7.6 U	7.6 U	7.2 U	7.6 U	7.0 U	2,400 U	2,900 U	2,000 U	2,700 U	12 U	12 U
BUTANE	3,900	310	1,000	15	22	40	69	7.6 U	7.2 U	7.6 U	260	4,400,000	5,000,000	3,900,000	4,900,000	12 U	12 U
CIS-2-BUTENE	24	6	47	3.2 U	3.0 U	3.1 U	3.0 U	3.0 U	2.9 U	3.0 U	11	1,300	7,100	1,000	6,300	4.9 U	4.8 U
ETHANE	330	280	7.9 U	8.0 U	8.6	8.6	64	200	7.2 U	37	7.0 U	21,000	24,000	20,000	24,000	12 U	12 U
ETHENE	97	85	7.9 U	8.0 U	7.6 U	7.8 U	7.6 U	7.6 U	7.2 U	7.6 U	7.0 U	2,400 U	2,900 U	2,000 U	2,700 U	12 U	12 U
ISOBUTANE	2,700	140	140	5	4.7	14	28	42	2.9 U	9.4	120	1,800,000	1,900,000	1,700,000	2,000,000	4.9 U	4.8 U
PROPANE	360	110	7.9 U	8.0 U	8.3	10	21	55	7.2 U	24	14	110,000	120,000	100,000	120,000	12 U	12 U
PROPYLENE	25	26	7.9 U	8.0 U	7.6 U	7.8 U	7.6 U	7.6 U	7.2 U	7.6 U	7.0 U	2,400 U	2,900 U	2,000 U	2,700 U	12 U	12 U
TRANS-2-BUTENE	72	17	61	3.2 U	3.0 U	3.1 U	3.0 U	3.0 U	2.9 U	3.0 U	14	4,300	14,000	3,200	12,000	4.9 U	4.8 U
Analytical Method TO15	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1,2,4-TRIMETHYLBENZENE	19 U	3.0 U	0.79 U	0.80 U	0.76 U	0.78 U	0.76 U	0.76 U	0.72 U	0.76 U	0.70 U	24,000 U	29,000 U	24,000 U	27,000 U	1.2 U	1.2 U
1,3,5-TRIMETHYLBENZENE	19 U	3.0 U	0.79 U	0.80 U	0.76 U	0.78 U	0.76 U	0.76 U	0.72 U	0.76 U	0.70 U	24,000 U	29,000 U	24,000 U	27,000 U	1.2 U	1.2 U
1,3-BUTADIENE	19 U	3.0 U	0.79 U	0.80 U	0.76 U	0.78 U	0.76 U	0.76 U	0.72 U	0.76 U	0.70 U	24,000 U	29,000 U	24,000 U	27,000 U	1.2 U	1.2 U
BENZENE	19 U	3.0 U	0.79 U	0.80 U	0.76 U	0.78 U	0.76 U	0.76 U	1	0.76 U	0.70 U	24,000 U	29,000 U	24,000 U	27,000 U	1.2 U	1.2 U
ETHYL BENZENE	19 U	3.0 U	0.79 U	0.80 U	0.76 U	0.78 U	0.76 U	0.76 U	0.72 U	0.76 U	0.70 U	24,000 U	29,000 U	24,000 U	27,000 U	1.2 U	1.2 U
HEXANE	62	20	0.79 U	0.80 U	0.76 U	0.78 U	0.76 U	0.76 U	0.72 U	0.76 U	0.70 U	310,000	380,000	210,000	260,000	1.2 U	1.2 U
ISOPENTANE	5,000 J	630	2.1	2	4.1	4.3	8.1	3.3	0.72 U	3.6	0.70 U	6,200,000	7,000,000	6,200,000	7,000,000	3.1	2.3
M,P-XYLENE	19 U	3.0 U	0.79 U	0.80 U	0.76 U	0.78 U	0.76 U	0.76 U	0.72 U	0.76 U	0.70 U	24,000 U	29,000 U	24,000 U	27,000 U	1.2 U	1.2 U
O-XYLENE	19 U	3.0 U	0.79 U	0.80 U	0.76 U	0.78 U	0.76 U	0.76 U	0.72 U	0.76 U	0.70 U	24,000 U	29,000 U	24,000 U	27,000 U	1.2 U	1.2 U
TOLUENE	19 U	3.0 U	0.79 U	0.80 U	0.76 U	0.78 U	0.76 U	0.76 U	0.72 U	0.76 U	0.70 U	24,000 U	29,000 U	24,000 U	27,000 U	1.6	1.5
Analytical Method TO15 (rerun)	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
BENZENE	-	-	-	-	-	-	-	-	-	-	-	5,700	7,600	4,600	7,400	-	-
ETHYL BENZENE	-	-	-	-	-	-	-	-	-	-	-	600 U	2,300 U	600 U	2,100 U	-	-
M,P-XYLENE	-	-	-	-	-	-	-	-	-	-	-	1,400	2,300 U	900	2,100 U	-	-
O-XYLENE	-	-	-	-	-	-	-	-	-	-	-	600 U	2,300 U	600 U	2,100 U	-	-
TOLUENE	-	-	-	-	-	-	-	-	-	-	-	600 U	2,300 U	600 U	2,100 U	-	-

Notes:
%-result is reported as a percent
U-compound was analyzed for but not detected above reporting limit
J-Estimated value, analyte detected below reporting limit
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-3A
ACTIVE SOIL VAPOR ANALYTICAL RESULTS (ppbv)
VMP1 Through VMP-54
January 2005-March 2005

Hartford Working Group
Hartford, Illinois

Location ID	VMP-32	VMP-32	VMP-32	VMP-34	VMP-34	VMP-34	VMP-34	VMP-35	VMP-35	VMP-35	VMP-36	VMP-37	VMP-37	VMP-37	VMP-37	VMP-39	VMP-39
Port ID	VMP-32S	VMP-32VS	VMP-32VS	VMP-34D	VMP-34M	VMP-34S	VMP-34VS	VMP-35M	VMP-35S	VMP-35VS	VMP-36S	VMP-37D	VMP-37M	VMP-37S	VMP-37VS	VMP-39D	VMP-39M
Sample Date	1/19/2005	1/12/2005	1/19/2005	1/12/2005	1/12/2005	1/12/2005	1/12/2005	1/13/2005	1/13/2005	1/13/2005	1/11/2005	3/10/2005	3/10/2005	3/10/2005	3/10/2005	1/17/2005	1/17/2005
Sample ID	011905-VMP-32S	011205-VMP32VS	011905-VMP-32VS	011205-VMP34D	011205-VMP34M	011205-VMP34S	011205-VMP34VS	011305-VMP35M	011305-VMP35D	011305-VMP35VS	011105-VMP-36S	031005 VMP-37D	031005 VMP-37M	031005 VMP-37S	031005 VMP-37VS	011705-VMP-39D	011705-VMP-39M
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method D1946	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
CARBON DIOXIDE	4.5	4.2	4	9.4	8.6	5.7	5.3	6.3	7.4	2.3	1.2	8	7.6	2.9	3.3	12	14
METHANE	0.00023 U	0.00024 U	0.00020 U	0.00016 U	0.00015 U	0.004	0.0047	0.00014 U	0.00014 U	0.0082	0.27	0.00015 U	0.00015 U	0.00018 U	0.00056	6.1	4
METHANE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OXYGEN	12	11	12	8.3	6.6	4.5	5.1	12	8.8	11	2.9	5.1	6.2	6.1	5	1.2	1.2
Analytical Method TO14	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1-BUTENE	4.7 U	4.8 U	8.0 U	3.3 U	3.0 U	3.2 U	3.2 U	3.1	2.8 U	2.8 U	160,000	3.0 U	3.0 U	3.5 U	3.2 U	2.9 U	3.4
ACETYLENE	12 U	12 U	20 U	8.2 U	7.6 U	8.0 U	8.0 U	7.0 U	7.0 U	7.0 U	3,300 U	7.4 U	7.4 U	8.8 U	8.0 U	7.3 U	7.0 U
BUTANE	100	12	87	8.4	11	37	18	93	7.0 U	7.0 U	6,300,000	7.4 U	7.4 U	8.8 U	8.0 U	120	320
CIS-2-BUTENE	6.1	4.8 U	8.0 U	3.3 U	3.0 U	3.2 U	3.2 U	4.1	2.8 U	2.8 U	230,000	3.0 U	3.0 U	3.5 U	3.2 U	3.6	11
ETHANE	12 U	12 U	20 U	8.2 U	7.6 U	370	340	7.0 U	8.8	92	26,000	7.4 U	7.4 U	13	14	86	64
ETHENE	12 U	12 U	20 U	8.2 U	7.6 U	11	8.0 U	7.0 U	7.0 U	7.0 U	4,300	7.4 U	7.4 U	8.8 U	8.0 U	7.3 U	7.0 U
ISOBUTANE	30	4.8 U	17	3.3 U	3.9	60	48	41	2.8 U	10	1,500,000	3.0 U	3.0 U	3.5 U	3.2 U	24	50
PROPANE	12 U	12 U	20 U	8.2 U	7.6 U	200	140	7.0 U	7.0 U	17	68,000	7.4 U	7.4 U	8.8 U	8.0 U	38	28
PROPYLENE	12 U	12 U	20 U	8.2 U	7.6 U	8.0 U	8.0 U	7.0 U	7.0 U	7.0 U	3,300 U	7.4 U	7.4 U	8.8 U	8.0 U	7.3 U	7.0 U
TRANS-2-BUTENE	7.7	4.8 U	8.0 U	3.3 U	3.0 U	3.2 U	3.2 U	4.8	2.8 U	2.8 U	380,000	3.0 U	3.0 U	3.5 U	3.2 U	4.4	14
Analytical Method TO15	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1,2,4-TRIMETHYLBENZENE	2.3	1.2 U	4.7	0.82 U	0.76 U	0.80 U	0.80 U	0.70 U	0.70 U	0.70 U	12,000 U	0.74 U	0.74 U	0.88 U	0.80 U	2.9 U	1.9 U
1,3,5-TRIMETHYLBENZENE	1.2 U	1.2 U	2.0 U	0.82 U	0.76 U	0.80 U	0.80 U	0.70 U	0.70 U	0.70 U	12,000 U	0.74 U	0.74 U	0.88 U	0.80 U	2.9 U	1.9 U
1,3-BUTADIENE	1.2 U	1.2 U	2.0 U	0.82 U	0.76 U	0.80 U	0.80 U	0.70 U	0.70 U	0.70 U	12,000 U	0.74 U	0.74 U	0.88 U	0.80 U	2.9 U	1.9 U
BENZENE	5.9	3.4	22	0.82 U	0.76 U	0.80 U	0.80 U	0.70 U	0.70 U	0.70 U	12,000 U	0.74 U	0.74 U	0.88 U	0.80 U	2.9 U	1.9 U
ETHYL BENZENE	2.7	1.2 U	5.2	0.82 U	0.76 U	0.80 U	0.80 U	0.70 U	0.70 U	0.70 U	12,000 U	0.74 U	0.74 U	0.88 U	0.80 U	2.9 U	1.9 U
HEXANE	11	3.5	140	1.8	1.5	1.4	2.2	0.70 U	0.70 U	0.70 U	330,000	0.74 U	0.74 U	1.8	0.80 U	12	3.8
ISOPENTANE	53	13	250	6.9	4.3	10	7	0.7	2.2	0.70 U	3,100,000	0.74 U	0.74 U	2.3	0.80 U	35	24
M,P-XYLENE	8.8	1.2 U	20	0.82 U	0.76 U	0.80 U	0.80 U	0.70 U	0.70 U	0.70 U	12,000 U	0.74 U	0.74 U	0.88 U	0.80 U	2.9 U	1.9 U
O-XYLENE	2.8	1.2 U	6.8	0.82 U	0.76 U	0.80 U	0.80 U	0.70 U	0.70 U	0.70 U	12,000 U	0.74 U	0.74 U	0.88 U	0.80 U	2.9 U	1.9 U
TOLUENE	12	3.9	23	0.82 U	0.76 U	0.80 U	0.80 U	0.88	0.70 U	0.70 U	12,000 U	0.74 U	0.74 U	1.1	1.1	2.9 U	1.9 U
Analytical Method TO15 (rerun)	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
BENZENE	-	-	-	-	-	-	-	-	-	-	16,000	-	-	-	-	-	-
ETHYL BENZENE	-	-	-	-	-	-	-	-	-	-	2,300 U	-	-	-	-	-	-
M,P-XYLENE	-	-	-	-	-	-	-	-	-	-	15,000	-	-	-	-	-	-
O-XYLENE	-	-	-	-	-	-	-	-	-	-	2,300 U	-	-	-	-	-	-
TOLUENE	-	-	-	-	-	-	-	-	-	-	10,000	-	-	-	-	-	-

Notes:
%-result is reported as a percent
U-compound was analyzed for but not detected above reporting limit
J-Estimated value, analyte detected below reporting limit
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-3A
ACTIVE SOIL VAPOR ANALYTICAL RESULTS (ppbv)
VMP1 Through VMP-54
January 2005-March 2005

Hartford Working Group
Hartford, Illinois

Location ID	VMP-39	VMP-39	VMP-42	VMP-42	VMP-42	VMP-42	VMP-43	VMP-43	VMP-43	VMP-43	VMP-44	VMP-44	VMP-44	VMP-44	VMP-44	VMP-45
Port ID	VMP-39S	VMP-39VS	VMP-42D	VMP-42M	VMP-42S	VMP-42VS	VMP-43M	VMP-43S	VMP-43S	VMP-43VS	VMP-44D	VMP-44M	VMP-44S	VMP-44VS	VMP-44VS	VMP-45S
Sample Date	1/17/2005	1/17/2005	1/12/2005	1/12/2005	1/12/2005	1/12/2005	1/13/2005	1/13/2005	1/13/2005	1/13/2005	1/12/2005	1/12/2005	1/12/2005	1/12/2005	1/12/2005	1/20/2005
Sample ID	011705-VMP-39S	011705-VMP-39VS	011205-VMP-42D	011205-VMP-42M	011205-VMP-42S	011205-VMP-42VS	011305-VMP43M	011305-VMP43S	011305-VMP43SDUP	011305-VMP43VS	011205-VMP-44D	011205-VMP-44M	011205-VMP-44S	011205-VMP-44VS	011205-VMP-44VS-DUP	012005-VMP-45S
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method D1946	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
CARBON DIOXIDE	0.043	9	16	15	12	5.8	12	4.9	4.9	4.9	4.8	9.9	5.4	3.9	3.9	13
METHANE	0.00051	0.0012	0.00016 U	0.00017 U	0.00016 U	0.00047	0.00015 U	0.00029	0.00029	0.0002	0.0014	0.23	0.0017	0.00016 U	0.00016 U	22
METHANE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OXYGEN	21	2.3	6.2	7.7	7.9	8.9	9.1	1.8	1.8	9.4	12	1.8	7.2	13	14	0.89
Analytical Method TO14	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1-BUTENE	7.4	15	3.2 U	3.4 U	3.3 U	3.3 U	9	3.0 U	3.0 U	3.1 U	4.8 U	4.8 U	4.8 U	3.2 U	3.2 U	240 U
ACETYLENE	7.8 U	7.0 U	8.0 U	8.4 U	8.2 U	8.2 U	7.4 U	7.4 U	7.6 U	7.8 U	12 U	12 U	12 U	8.0 U	8.0 U	610 U
BUTANE	660	1,600	8.0 U	8.4 U	8.2 U	8.2 U	280	7.4 U	30	7.8 U	18	1,700	79	27	26	730,000
CIS-2-BUTENE	23	46	3.2 U	3.4 U	3.3 U	3.3 U	12	3.0 U	3.0 U	3.1 U	4.8 U	5.2	4.8 U	3.2 U	3.2 U	240 U
ETHANE	7.8 U	7.0 U	8.0 U	8.4 U	31	72	7.4 U	120	120	29	14	1,800	28	8.0 U	8.0 U	29,000
ETHENE	19	7.0 U	8.0 U	8.4 U	8.2 U	8.2 U	7.4 U	7.4 U	7.6 U	7.8 U	12 U	12 U	12 U	8.0 U	8.0 U	610 U
ISOBUTANE	86	250	3.2 U	3.4 U	9.3	12	120	14	26	3.1 U	14	2,000	39	11	11	1,000,000
PROPANE	7.8 U	17	8.0 U	8.4 U	22	9.2	12	7.4 U	7.6 U	7.8 U	12 U	520	12 U	8.0 U	8.0 U	12,000
PROPYLENE	21	7.0 U	8.0 U	8.4 U	8.2 U	8.2 U	7.4 U	7.4 U	7.6 U	7.8 U	12 U	12 U	12 U	8.0 U	8.0 U	610 U
TRANS-2-BUTENE	33	72	3.2 U	3.4 U	3.3 U	3.3 U	15	3.0 U	3.0 U	3.1 U	4.8 U	7.8	4.8 U	3.2 U	3.2 U	240 U
Analytical Method TO15	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1,2,4-TRIMETHYLBENZENE	0.78 U	0.70 U	0.80 U	0.84 U	0.82 U	0.82 U	0.74 U	0.74 U	0.76 U	0.78 U	1.2 U	76 U	1.2 U	0.80 U	0.80 U	15,000 U
1,3,5-TRIMETHYLBENZENE	0.78 U	0.70 U	0.80 U	0.84 U	0.82 U	0.82 U	0.74 U	0.74 U	0.76 U	0.78 U	1.2 U	76 U	1.2 U	0.80 U	0.80 U	15,000 U
1,3-BUTADIENE	0.78 U	0.70 U	0.80 U	0.84 U	0.82 U	0.82 U	0.74 U	0.74 U	0.76 U	0.78 U	1.2 U	76 U	1.2 U	0.80 U	0.80 U	15,000 U
BENZENE	14	0.70 U	0.80 U	0.84 U	0.82 U	0.82 U	0.74 U	0.74 U	0.76 U	0.78 U	12	76 U	1.2	0.80 U	1.1	16,000
ETHYL BENZENE	0.78 U	0.70 U	0.80 U	0.84 U	0.82 U	0.82 U	0.74 U	0.74 U	0.76 U	0.78 U	1.2 U	76 U	1.2 U	0.80 U	0.80 U	15,000 U
HEXANE	0.78 U	0.70 U	0.80 U	0.84 U	0.82 U	0.82 U	0.74 U	0.74 U	0.76 U	0.78 U	2.8	76 U	3.6	1.7	1.1	15,000 U
ISOPENTANE	2.1	0.89	0.80 U	0.84 U	11	2.4	1.1	4.6	4.8	0.78 U	26	2,600	18	7.4	7.6	3,300,000
M,P-XYLENE	0.78 U	0.70 U	1.8	0.84 U	0.82 U	0.82 U	0.74 U	0.74 U	0.76 U	0.78 U	2.5	76 U	1.4	0.80 U	0.80 U	15,000 U
O-XYLENE	0.78 U	0.70 U	0.87	0.84 U	0.82 U	0.82 U	0.74 U	0.74 U	0.76 U	0.78 U	1.2 U	76 U	1.2 U	0.80 U	0.80 U	15,000 U
TOLUENE	0.82	0.70 U	1.8	0.84 U	1.6	0.82 U	0.74 U	0.74 U	0.76 U	0.78 U	1.6	76 U	1.7	0.80 U	3.3	15,000 U
Analytical Method TO15 (rerun)	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
BENZENE	-	-	-	-	-	-	-	-	-	-	14	9.7 U	-	-	-	-
ETHYL BENZENE	-	-	-	-	-	-	-	-	-	-	1.2 U	9.7 U	-	-	-	-
M,P-XYLENE	-	-	-	-	-	-	-	-	-	-	2.9	9.7 U	-	-	-	-
O-XYLENE	-	-	-	-	-	-	-	-	-	-	1.2 U	9.7 U	-	-	-	-
TOLUENE	-	-	-	-	-	-	-	-	-	-	1.9	29	-	-	-	-

Notes:
%-result is reported as a percent
U-compound was analyzed for but not detected above reporting limit
J-Estimated value, analyte detected below reporting limit
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-3A
ACTIVE SOIL VAPOR ANALYTICAL RESULTS (ppbv)
VMP1 Through VMP-54
January 2005-March 2005

Hartford Working Group
Hartford, Illinois

Location ID	VMP-45	VMP-45	VMP-45	VMP-46	VMP-46	VMP-47	VMP-47	VMP-48	VMP-48	VMP-49	VMP-49	VMP-49	VMP-49	VMP-49
Port ID	VMP-45S	VMP-45S	VMP-45S	VMP-46S	VMP-46VS	VMP-47S	VMP-47VS	VMP-48S	VMP-48VS	VMP-49S	VMP-49S	VMP-49S	VMP-49S	VMP-49VS
Sample Date	2/1/2005	2/1/2005	2/3/2005	1/20/2005	1/20/2005	1/20/2005	1/20/2005	1/20/2005	1/20/2005	1/20/2005	2/1/2005	2/1/2005	2/3/2005	1/20/2005
Sample ID	020105 HCCPSVMP-45S	020105 HCC PSVMP-45S	020305-HCCPS-VMP-45S	012005-VMP-46S	012005-VMP-46VS	012005-VMP-47S	012005-VMP-47VS	012005-VMP-48S	012005-VMP-48VS	012005-VMP-49S	020105 HCC PSVMP-49S	020105 HCCPSVMP-49S	020305-HCCPS-VMP-49S	012005-VMP-49VS
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method D1946	%	%	%	%	%	%	%	%	%	%	%	%	%	%
CARBON DIOXIDE		14	14	9.5	5.4	12	3.2	12	0.94	17	18		18	17
METHANE		18	17	21	22	33	7	23	0.4	59	66		57	62
METHANE	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OXYGEN		1	0.96	0.88	1	0.83	1.2	1.1	3.1	0.16 U	0.2		0.28	0.26
Analytical Method TO14	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1-BUTENE	-	170 U	200 U	620 U	550	2,100 U	240 U	3,300 U	37	5,700	5,900	-	7,600 U	6,500
ACETYLENE	-	430 U	500 U	1,600 U	1,300 U	5,400 U	600 U	8,200 U	16 U	12,000 U	13,000 U	-	19,000 U	12,000 U
BUTANE	-	680,000	630,000	2,900,000	2,300,000	8,700,000	1,100,000	13,000,000	27,000	23,000,000	25,000,000	-	35,000,000	21,000,000
CIS-2-BUTENE	-	170 U	200 U	620 U	520 U	2,100 U	240 U	18,000	140	39,000	42,000	-	47,000	43,000
ETHANE	-	27,000	24,000	39,000	38,000	63,000	11,000	46,000	940	120,000	130,000	-	130,000	130,000
ETHENE	-	430 U	500 U	1,600 U	1,300 U	5,400 U	600 U	8,200 U	57	12,000 U	13,000 U	-	19,000 U	12,000 U
ISOBUTANE	-	890,000	830,000	1,400,000	1,900,000	2,400,000	370,000	2,100,000	13,000	4,800,000	5,200,000	-	5,800,000	4,800,000
PROPANE	-	12,000	11,000	31,000	31,000	57,000	8,100	100,000	360	160,000	180,000	-	270,000	100,000
PROPYLENE	-	430 U	500 U	1,600 U	1,300 U	5,400 U	600 U	8,200 U	24	12,000 U	13,000 U	-	19,000 U	12,000 U
TRANS-2-BUTENE	-	210	210	970	750	2,700	430	48,000	310	130,000	140,000	-	150,000	140,000
Analytical Method TO15	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1,2,4-TRIMETHYLBENZENE	13,000 U	-	13,000 U	16,000 U	19,000 U	54,000 U	6,200 U	33,000 U	170 U	78,000 U	-	140,000 U	210,000 U	72,000 U
1,3,5-TRIMETHYLBENZENE	13,000 U	-	13,000 U	16,000 U	19,000 U	54,000 U	6,200 U	33,000 U	170 U	78,000 U	-	140,000 U	210,000 U	72,000 U
1,3-BUTADIENE	13,000 U	-	13,000 U	16,000 U	19,000 U	54,000 U	6,200 U	33,000 U	170 U	78,000 U	-	140,000 U	210,000 U	72,000 U
BENZENE	14,000	-	27,000	16,000 U	19,000 U	54,000 U	6,200 U	230,000	7,700	590,000	-	620,000	620,000	380,000
ETHYL BENZENE	13,000 U	-	13,000 U	16,000 U	19,000 U	54,000 U	6,200 U	33,000 U	540	78,000 U	-	140,000 U	210,000 U	72,000 U
HEXANE	51000 U	-	91,000	16,000 U	19,000 U	780,000	28,000	590,000	670	1,700,000	-	2,100,000	1,900,000	1,400,000
ISOPENTANE	3,500,000	-	5,100,000	4,100,000	4,700,000	15,000,000	1,700,000	12,000,000	54,000	25,000,000	-	33,000,000	34,000,000	23,000,000
M,P-XYLENE	13,000 U	-	13,000 U	16,000 U	19,000 U	54,000 U	6,200 U	33,000 U	170 U	78,000 U	-	140,000 U	210,000 U	72,000 U
O-XYLENE	13,000 U	-	13,000 U	16,000 U	19,000 U	54,000 U	6,200 U	33,000 U	170 U	78,000 U	-	140,000 U	210,000 U	72,000 U
TOLUENE	13,000 U	-	13,000 U	16,000 U	19,000 U	54,000 U	6,200 U	33,000 U	170 U	78,000 U	-	140,000 U	210,000 U	72,000 U
Analytical Method TO15 (rerun)	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
BENZENE	-	-	-	-	5,400	12,000	420	-	-	-	-	-	-	-
ETHYL BENZENE	-	-	-	-	160 U	160 U	30 U	-	-	-	-	-	-	-
M,P-XYLENE	-	-	-	-	160	270	30 U	-	-	-	-	-	-	-
O-XYLENE	-	-	-	-	160 U	160 U	30 U	-	-	-	-	-	-	-
TOLUENE	-	-	-	-	160 U	180	30 U	-	-	-	-	-	-	-

Notes:
%-result is reported as a percent
U-compound was analyzed for but not detected above reporting limit
J-Estimated value, analyte detected below reporting limit
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-3A
ACTIVE SOIL VAPOR ANALYTICAL RESULTS (ppbv)
VMP1 Through VMP-54
January 2005-March 2005

Hartford Working Group
Hartford, Illinois

Location ID	VMP-50	VMP-50	VMP-51	VMP-51	VMP-51	VMP-52	VMP-53	VMP-53	VMP-53	VMP-53	VMP-53	VMP-54	VMP-54
Port ID	VMP-50S	VMP-50VS	VMP-51S	VMP-51S	VMP-51VS	VMP-52VS	VMP-53S	VMP-53S	VMP-53S	VMP-53S	VMP-53VS	VMP-54M	VMP-54VS
Sample Date	1/20/2005	1/20/2005	1/20/2005	1/20/2005	1/20/2005	1/20/2005	1/20/2005	2/1/2005	2/1/2005	2/3/2005	1/20/2005	1/18/2005	1/18/2005
Sample ID	012005-VMP-50S	012005-VMP-50VS	012005-VMP-51S-Dup	012005-VMP-51S	012005-VMP-51VS	012005-VMP-52VS	012005-VMP-53S	020105 HCC PSVMP-53S	020105 HCCPSVMP-53S	020305-HCCPS-VMP-53S	012005-VMP-53VS	011805-VMP-54M	011805-VMP-54VS
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method D1946	%	%	%	%	%	%	%	%	%	%	%	%	%
CARBON DIOXIDE	0.21	15	13	13	7.2	0.59	9.8	8.7		9	2.8	17	3.4
METHANE	0.7	58	69	70	68	0.1	32	30		30	14	51	55
METHANE	-	-	-	-	-	-	-	-	-	-	-	-	-
OXYGEN	21	0.3	0.5	0.39	0.3	1.7	0.84	0.93		0.96	1.3	2	1.7
Analytical Method TO14	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1-BUTENE	41 U	3,100 U	2,600 U	3,100 U	3,000 U	4.7	260 U	190 U	-	180 U	77 U	720 U	680 U
ACETYLENE	100 U	7,800 U	6,600 U	7,700 U	7,600 U	10 U	660 U	470 U	-	440 U	190 U	1,800 U	1,700 U
BUTANE	220,000	16,000,000	14,000,000	13,000,000	12,000,000	120	130,000	63,000	-	48,000	33,000	2,600,000	2,400,000
CIS-2-BUTENE	180	13,000	5,600	5,500	8,800	5.5	260 U	190 U	-	180 U	77 U	720 U	680 U
ETHANE	1,600	110,000	130,000	120,000	120,000	190	55,000	51,000	-	48,000	18,000	57,000	60,000
ETHENE	100 U	7,800 U	6,600 U	7,700 U	7,600 U	10 U	660 U	470 U	-	440 U	190 U	1,800 U	1,700 U
ISOBUTANE	51,000	3,600,000	3,900,000	3,800,000	3,800,000	2,000	1,200,000	970,000	-	740,000	300,000	500,000	510,000
PROPANE	750	53,000	54,000	54,000	65,000	35	10,000	7,300	-	5,700	2,600	17,000	16,000
PROPYLENE	100 U	7,800 U	6,600 U	7,700 U	7,600 U	15	660 U	470 U	-	440 U	190 U	1,800 U	1,700 U
TRANS-2-BUTENE	590	43,000	17,000	16,000	26,000	6	260 U	190 U	-	180 U	77 U	1,300	700
Analytical Method TO15	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1,2,4-TRIMETHYLBENZENE	1,200 U	97,000 U	76,000 U	87,000 U	76,000 U	26 U	23,000 U	-	35,000 U	16,000 U	3,300 U	24,000 U	24,000 U
1,3,5-TRIMETHYLBENZENE	1,200 U	97,000 U	76,000 U	87,000 U	76,000 U	26 U	23,000 U	-	35,000 U	16,000 U	3,300 U	24,000 U	24,000 U
1,3-BUTADIENE	1,200 U	97,000 U	76,000 U	87,000 U	76,000 U	26 U	23,000 U	-	35,000 U	16,000 U	3,300 U	24,000 U	24,000 U
BENZENE	1,400	260,000	220,000	210,000	100,000	540	23,000 U	-	35,000 U	16,000 U	3,300 U	24,000 U	24,000 U
ETHYL BENZENE	1,200 U	97,000 U	76,000 U	87,000 U	76,000 U	26 U	23,000 U	-	35,000 U	16,000 U	3,300 U	24,000 U	24,000 U
HEXANE	7,600	670,000	340,000	340,000	340,000	26 U	23,000 U	-	140,000 U	62,000 U	3,300 U	24,000 U	24,000 U
ISOPENTANE	260,000	21,000,000	25,000,000	22,000,000	22,000,000	7,700	5,600,000	-	5,400,000	4,000,000	1,200,000	6,100,000	5,700,000
M,P-XYLENE	1,200 U	97,000 U	76,000 U	87,000 U	76,000 U	160	23,000 U	-	35,000 U	16,000 U	3,300 U	24,000 U	24,000 U
O-XYLENE	1,200 U	97,000 U	76,000 U	87,000 U	76,000 U	26 U	23,000 U	-	35,000 U	16,000 U	3,300 U	24,000 U	24,000 U
TOLUENE	1,200 U	97,000 U	76,000 U	87,000 U	76,000 U	26 U	23,000 U	-	35,000 U	16,000 U	3,300 U	24,000 U	24,000 U
Analytical Method TO15 (rerun)	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
BENZENE	-	-	-	-	-	-	270	35 U	-	6.2 U	43	-	-
ETHYL BENZENE	-	-	-	-	-	-	82 U	35 U	-	6.2 U	34	-	-
M,P-XYLENE	-	-	-	-	-	-	82 U	35 U	-	6.2 U	36	-	-
O-XYLENE	-	-	-	-	-	-	82 U	35 U	-	6.2 U	33 U	-	-
TOLUENE	-	-	-	-	-	-	120	35 U	-	6.2 U	74	-	-

Notes:
%-result is reported as a percent
U-compound was analyzed for but not detected above reporting limit
J-Estimated value, analyte detected below reporting limit
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-3B
ACTIVE SOIL VAPOR ANALYTICAL RESULTS (ug/m3)
VMP-1 Through VMP-54
January 2005-March 2005

Hartford Working Group
Hartford, Illinois

Location ID	VMP-1	VMP-1	VMP-2	VMP-3	VMP-6	VMP-6	VMP-6	VMP-7	VMP-9	VMP-10	VMP-12	VMP-12	VMP-15	VMP-15	VMP-15	VMP-15	VMP-17	VMP-17
Port ID	VMP-1D	VMP-1S	VMP-2D	VMP-3	VMP-6M	VMP-6S	VMP-6S	VMP-7		VMP-10	VMP-12M	VMP-12VS	VMP-15D	VMP-15M	VMP-15S	VMP-15S	VMP-17D	VMP-17M
Sample Date	1/13/2005	1/13/2005	1/13/2005	1/13/2005	2/21/2005	2/21/2005	2/21/2005	1/18/2005	2/21/2005	1/18/2005	1/14/2005	1/14/2005	1/10/2005	1/10/2005	1/6/2005	1/10/2005	1/12/2005	1/12/2005
Sample ID	011305-VMP-1D	011305-VMP-1S	011305-VMP-2D	011305-VMP-3	022105-VMP-6M	022105-VMP-6S	022105-VMP-6S DUP	011805-VMP-7	022105-VMP-9	011805-VMP-10	011405-VMP-12M	011405-VMP-12VS	011005-VMP-15D	011005-VMP-15M	010605-VMP15-S	011005-VMP-15S	011205-VMP-17D	011205-VMP-17M
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method TO14	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1-BUTENE	2,600 U	10 U	1,800 U	3,000 U	15,000	6,700 U	6,800 U	3,800 U	1,300 U	27,000	100 U	25	6,400,000	5,200,000	-	2,500,000	7.5 U	7.5 U
ACETYLENE	3,000 U	12 U	2,000 U	3,500 U	5,000 U	7,800 U	7,900 U	4,400 U	1,500 U	380 U	120 U	17 U	55,000 U	54,000 U	-	39,000 U	8.7 U	8.7 U
BUTANE	9,900,000	2,700	150,000	11,000,000	19,000,000	26,000,000	25,000,000	17,000,000	5,000,000	1,500,000	15,000	1,400	240,000,000	23,000 0000	-	170,000,000	19 U	19 U
CIS-2-BUTENE	2,600 U	10 U	1,800 U	7,800	45,000	30,000	28,000	3,800 U	1,300 U	93,000	100 U	16	12,000,000	10,000,000	-	5,200,000	7.5 U	7.5 U
ETHANE	150,000	370	180,000	67,000	93,000	120,000	120,000	94,000	47,000	640	2,800	230	1,200,000	840,000	-	930,000	20	10 U
ETHENE	3,200 U	13 U	2,200 U	3,800 U	5,400 U	8,400 U	8,500 U	4,700 U	1,600 U	1,400	300	50	710,000	380,000	-	220,000	9.4 U	9.4 U
ISOBUTANE	6,900,000	1,600	6,800,000	3,700,000	5,500,000	8,100,000	7,500,000	5,100,000	3,800,000	260,000	450,000	64,000	100,000,000	91,000,000	-	70,000,000	7.8 U	7.8 U
PROPANE	100,000	47	320,000	210,000	98,000	140,000	130,000	240,000	56,000	7,000	1,800	350	10,000,000	8,400,000	-	7,100,000	15 U	15 U
PROPYLENE	4,900 U	19 U	3,300 U	5,600 U	8,000 U	12,000 U	13,000 U	7,000 U	2,400 U	620 U	220	75	240,000	170,000	-	93,000	14 U	14 U
TRANS-2-BUTENE	2,600 U	13	1,800 U	29,000	120,000	93,000	90,000	5,700	2,500	110,000	100 U	14 U	15,000,000	13,000,000	-	7,000,000	7.5 U	7.5 U
Analytical Method TO15	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1,2,4-TRIMETHYLBENZENE	210,000 U	43 U	160,000 U	190,000 U	310,000 U	240,000 U	240,000 U	280,000 U	140,000 U	430,000	7,600 U	2,000 U	690,000 U	1,100,000 U	950,000 U	570,000 U	4.0 U	4.0 U
1,3,5-TRIMETHYLBENZENE	210,000 U	43 U	160,000 U	190,000 U	310,000 U	240,000 U	240,000 U	280,000 U	140,000 U	180,000	7,600 U	2,000 U	690,000 U	1,100,000 U	950,000 U	570,000 U	4.0 U	4.0 U
1,3-BUTADIENE	94,000 U	19 U	72,000 U	84,000 U	140,000 U	110,000 U	110,000 U	130,000 U	62,000 U	11,000 U	3,400 U	920 U	310,000 U	500,000 U	430,000 U	260,000 U	1.8 U	1.8 U
BENZENE	140,000 U	28 U	100,000 U	120,000 U	430,000	740,000	820,000	180,000 U	89,000 U	1,000,000	5,000 U	1,300 U	2,200,000	2,000,000	2,600,000	1,800,000	2.6 U	2.6 U
ETHYL BENZENE	180,000 U	38 U	140,000 U	160,000 U	270,000 U	210,000 U	220,000 U	250,000 U	120,000 U	810,000	6,700 U	1,800 U	610,000 U	970,000 U	840,000 U	500,000 U	3.6 U	3.6 U
HEXANE	150,000 U	31 U	120,000 U	940,000	3,300,000	4,000,000	4,300,000	790,000	98,000 U	2,600,000	13,000	1,500 U	6,900,000	6,400,000	6,700,000	6,400,000	2.9 U	2.9 U
ISOPENTANE	36,000,000	6,300	28,000,000	18,000,000	41,000,000	53,000,000 J	56,000,000	52,000,000	14,000,000 J	4,500,000	1,700,000	300,000	130,000,000	120,000,000	120,000,000	90,000,000	2.4 U	2.4 U
M,P-XYLENE	180,000 U	38 U	140,000 U	160,000 U	270,000 U	210,000 U	220,000 U	250,000 U	120,000 U	2,600,000	6,700 U	1,800 U	610,000 U	970,000 U	840,000 U	500,000 U	3.6 U	3.6 U
O-XYLENE	180,000 U	38 U	140,000 U	160,000 U	270,000 U	210,000 U	220,000 U	250,000 U	120,000 U	840,000	6,700 U	1,800 U	610,000 U	970,000 U	840,000 U	500,000 U	3.6 U	3.6 U
TOLUENE	160,000 U	33 U	120,000 U	140,000 U	240,000 U	180,000 U	190,000 U	210,000 U	100,000 U	4,000,000	5,800 U	1,600 U	600,000	840,000 U	730,000 U	450,000	3.1 U	3.1 U
Analytical Method TO15 (rerun)	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
BENZENE	11,000	-	2,700	1,300	-	-	-	-	5,100	-	10,000	19	-	-	-	-	-	-
ETHYL BENZENE	920 U	-	500 U	500 U	-	-	-	-	48 U	-	670 U	22 U	-	-	-	-	-	-
M,P-XYLENE	920 U	-	500 U	500 U	-	-	-	-	1,200	-	5,300	22 U	-	-	-	-	-	-
O-XYLENE	920 U	-	500 U	500 U	-	-	-	-	48 U	-	3,000	22 U	-	-	-	-	-	-
TOLUENE	1,400	-	2,200	620	-	-	-	-	42 U	-	8600	19 U	-	-	-	-	-	-

Notes:
%-result is reported as a percent
U-compound was analyzed for but not detected above reporting limit
J-Estimated value, analyte detected below reporting limit
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-3B
ACTIVE SOIL VAPOR ANALYTICAL RESULTS (ug/m3)
VMP-1 Through VMP-54
January 2005-March 2005

Hartford Working Group
Hartford, Illinois

Location ID	VMP-18	VMP-18	VMP-18	VMP-18	VMP-19	VMP-19	VMP-19	VMP-20	VMP-20	VMP-20	VMP-20	VMP-21	VMP-21	VMP-21	VMP-21	VMP-22	VMP-22
Port ID	VMP-18D	VMP-18D	VMP-18M	VMP-18S	VMP-19D	VMP-19M	VMP-19S	VMP-20D	VMP-20M	VMP-20M	VMP-20S	VMP-21D	VMP-21M	VMP-21M	VMP-21S	VMP-22D	VMP-22M
Sample Date	1/11/2005	1/11/2005	2/21/2005	1/11/2005	1/13/2005	1/13/2005	1/13/2005	1/17/2005	1/17/2005	1/17/2005	1/17/2005	1/14/2005	1/14/2005	1/14/2005	1/14/2005	1/18/2005	1/18/2005
Sample ID	011105-VMP-18D	011105-VMP-18D DUP	022105-VMP-18M	011105-VMP-18S	011305-VMP-19D	011305-VMP-19M	011305-VMP-19S	011705-VMP-20D	011705-VMP-20M	011705-VMP-20M-Dup	011705-VMP-20S	011405-VMP-21D	011405-VMP-21M	011405-VMP-21M-Dup	011405-VMP-21S	011805-VMP-22D	011805-VMP-22M
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method TO14	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1-BUTENE	7.4 U	7.1 U	6.7 U	7.0 U	7.2 U	6.7 U	6.7 U	6.7 U	7.0 U	6.6 U	6.4 U	9.9 U	9.4 U	120	2,600	11 U	990 U
ACETYLENE	8.6 U	8.2 U	7.8 U	8.1 U	8.4 U	7.8 U	7.8 U	7.8 U	8.1 U	7.7 U	7.4 U	12 U	11 U	12 U	2,200 U	12 U	1,200 U
BUTANE	19 U	18 U	17 U	21	110	17 U	17 U	34	140	17 U	95	170	46	3,800	9,200,000	250	400,000
CIS-2-BUTENE	7.4 U	7.1 U	6.7 U	7.0 U	7.2 U	6.7 U	6.7 U	6.7 U	7.0 U	6.6 U	6.4 U	9.9 U	9.4 U	170	4,200	11 U	990 U
ETHANE	9.9 U	9.5 U	9.0 U	200	16	10	180	9.0 U	9.3 U	8.8 U	8.5 U	13 U	13 U	13 U	78,000	14 U	61,000
ETHENE	9.2 U	8.9 U	8.4 U	8.7 U	9.1 U	8.4 U	40	8.4 U	8.7 U	8.3 U	8.0 U	12 U	12 U	12 U	2,300 U	13 U	1,200 U
ISOBUTANE	7.6 U	7.4 U	8.3	73	40	6.9 U	39	11	32	6.8 U	20	50	35	1,400	7,500,000	63	4,300,000
PROPANE	14 U	14 U	13 U	38	16	13 U	54	13 U	14 U	13 U	12 U	19 U	18 U	80	440,000	21 U	40,000
PROPYLENE	14 U	13 U	12 U	13 U	14 U	12 U	14	12 U	13 U	12 U	12 U	18 U	18 U	18 U	3,500 U	20 U	1,800 U
TRANS-2-BUTENE	7.4 U	7.1 U	6.7 U	7.0 U	7.2 U	6.7 U	6.7 U	6.7 U	7.0 U	6.6 U	6.4 U	9.9 U	9.4 U	210	14,000	11 U	990 U
Analytical Method TO15	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1,2,4-TRIMETHYLBENZENE	4.0 U	3.8 U	3.6 U	3.7 U	3.9 U	3.6 U	3.6 U	3.6 U	540	590	3.4 U	5.3 U	5.0 U	5.3 U	99,000 U	5.7 U	88,000 U
1,3,5-TRIMETHYLBENZENE	4.0 U	3.8 U	3.6 U	3.7 U	3.9 U	3.6 U	3.6 U	3.6 U	200	190	3.4 U	5.3 U	5.0 U	5.3 U	99,000 U	5.7 U	88,000 U
1,3-BUTADIENE	1.8 U	1.7 U	1.6 U	1.7 U	1.7 U	1.6 U	1.6 U	1.6 U	1.7 U	1.6 U	1.5 U	2.4 U	2.3 U	2.4 U	45,000 U	2.6 U	40,000 U
BENZENE	2.6 U	2.5 U	2.3 U	3.5	2.5 U	2.3 U	2.3 U	2.3 U	8	7.6	2.2 U	5.1	3.3 U	3.4 U	64,000 U	10	58,000 U
ETHYL BENZENE	3.5 U	3.4 U	3.2 U	3.3 U	3.4 U	3.2 U	3.2 U	3.2 U	320	110	3.0 U	4.7 U	4.4 U	4.7 U	88,000 U	5.0 U	78,000 U
HEXANE	6.2	5.2	2.6 U	8.5	2.8 U	2.6 U	11	2.6 U	14	16	2.4 U	140	4.8	3.8 U	600,000	9.6	63,000 U
ISOPENTANE	14	16	2.2 UJ	29	86	3.3	28	2.2 U	3.1	2.1 U	2.0 U	200	52	37	23,000 000	32	16,000,000
M,P-XYLENE	3.5 U	3.4 U	3.2 U	3.3 U	3.4 U	3.2 U	3.2 U	3.2 U	1300	500	3.0 U	4.7 U	4.4 U	4.7 U	88,000 U	5.0 U	78,000 U
O-XYLENE	3.5 U	3.4 U	3.2 U	3.3 U	3.4 U	3.2 U	3.2 U	3.2 U	710	330	3.0 U	4.7 U	4.4 U	4.7 U	88,000 U	5.0 U	78,000 U
TOLUENE	3.0 U	2.9 U	2.8 U	4.2	3.0 U	2.8 U	4.5	2.8 U	290	120	2.6 U	43	13	8.2	76,000 U	20	68,000 U
Analytical Method TO15 (rerun)	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
BENZENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,600	-	5,200
ETHYL BENZENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	180 U	-	3,100 U
M,P-XYLENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	320	-	3,100 U
O-XYLENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	180 U	-	3,100 U
TOLUENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	600	-	2,700 U

Notes:
%-result is reported as a percent
U-compound was analyzed for but not detected above reporting limit
J-Estimated value, analyte detected below reporting limit
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-3B
ACTIVE SOIL VAPOR ANALYTICAL RESULTS (ug/m3)
VMP-1 Through VMP-54
January 2005-March 2005

Hartford Working Group
Hartford, Illinois

Location ID	VMP-22	VMP-23	VMP-23	VMP-24	VMP-25	VMP-26	VMP-26	VMP-26	VMP-26	VMP-26	VMP-26	VMP-26	VMP-26	VMP-26	VMP-27	VMP-27
Port ID	VMP-22S	VMP-23M	VMP-23M	VMP-24M	VMP-25M	VMP-26D	VMP-26D	VMP-26D	VMP-26D	VMP-26M	VMP-26M	VMP-26M	VMP-26M	VMP-26S	VMP-27S	VMP-27S
Sample Date	1/18/2005	1/18/2005	1/18/2005	1/18/2005	1/18/2005	1/13/2005	1/19/2005	1/19/2005	3/23/2005	1/13/2005	1/19/2005	1/20/2005	3/23/2005	3/23/2005	1/18/2005	1/18/2005
Sample ID	011805-VMP-22S	011805-VMP-23M	011805-VMP-23M-Dupe	011805-VMP-24M	011805-VMP-25M	011305-VMP-26D	011905-VMP-26D	011905-VMP-26D-Dup	032305-VMP-26 D	011305-VMP-26M	011905-VMP-26M	01205-VMP-26M	032305-VMP-26 M	032305-VMP-26 S	011805-VMP-27S-Dup	011805-VMP-27S
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method TO14	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1-BUTENE	790 U	9,500 U	9,500 U	8,100 U	110	850	2,200	1,800	11 U	19	98 U	820	6.7 U	6.5 U	1,400 U	1,400 U
ACETYLENE	920 U	11,000 U	11,000 U	9,400 U	29 U	680 U	890 U	780 U	13 U	8.2 U	110 U	320 U	7.8 U	7.5 U	1,600 U	1,600 U
BUTANE	1,200,000	45,000,000	44,000,000	31,000,000	7,800	2,600,000	3,500,000	2,900,000	30	38,000	420,000	1,200,000	17 U	17 U	97,000	89,000
CIS-2-BUTENE	790 U	25,000	24,000	8,100 U	520	6,900	20,000	17,000	11 U	8	720	2,000	6.7 U	6.5 U	1,400 U	1,400 U
ETHANE	56,000	150,000	140,000	150,000	69,000	20,000	23,000	20,000	15	1,100	3,800	9,200	9.0 U	8.7 U	120,000	110,000
ETHENE	990 U	12,000 U	12,000 U	10,000 U	160	730 U	960 U	840 U	16	8.9 U	120 U	350 U	8.4 U	8.1 U	1,700 U	1,700 U
ISOBUTANE	3,900,000	11,000,000	11,000,000	9,300,000	26,000	520,000	660,000	560,000	19	26,000	110,000	310,000	6.9 U	6.7 U	5,300,000	5,000,000
PROPANE	35,000	260,000	250,000	110,000	140	9,300	11,000	9,600	22 U	280	1,600	4,600	13 U	13 U	150,000	140,000
PROPYLENE	1,500 U	18,000 U	18,000 U	15,000 U	46 U	1,100 U	1,400 U	1,200 U	21 U	13 U	180 U	520 U	12 U	12 U	2,600 U	2,600 U
TRANS-2-BUTENE	790 U	84,000	84,000	8,100 U	570	18,000	52,000	44,000	11 U	18	2,000	5,500	6.7 U	6.5 U	1,400 U	1,400 U
Analytical Method TO15	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1,2,4-TRIMETHYLBENZENE	76,000 U	400,000 U	400,000 U	330,000 U	3,300 U	46,000 U	130,000 U	100,000 U	5.9 U	3,800 U	18,000 U	52,000 U	3.6 U	3.5 U	120,000 U	120,000 U
1,3,5-TRIMETHYLBENZENE	76,000 U	400,000 U	400,000 U	330,000 U	3,300 U	46,000 U	130,000 U	100,000 U	5.9 U	3,800 U	18,000 U	52,000 U	3.6 U	3.5 U	120,000 U	120,000 U
1,3-BUTADIENE	34,000 U	180,000 U	180,000 U	150,000 U	1,500 U	21,000 U	58,000 U	45,000 U	2.7 U	1,700 U	8,200 U	23,000 U	1.6 U	1.6 U	55,000 U	55,000 U
BENZENE	49,000 U	890,000	820,000	220,000 U	2,200 U	32,000	83,000 U	65,000 U	5.9	2,500 U	12,000 U	34,000 U	2.3 U	2.2 U	79,000 U	79,000 U
ETHYL BENZENE	67,000 U	360,000 U	360,000 U	290,000 U	2,900 U	40,000 U	110,000 U	89,000 U	5.2 U	3,400 U	16,000 U	46,000 U	3.2 U	3.1 U	110,000 U	110,000 U
HEXANE	54,000 U	920,000	830,000	240,000 U	2,400 U	1,600,000	2,900,000	2,100,000	70	9,900	200,000	730,000	2.6 U	2.5 U	87,000 U	87,000 U
ISOPENTANE	12,000,000	77,000,000	71,000,000	56,000,000	37,000	11,000,000	18,000,000	13,000,000	130	640,000	3,100,000	10,000,000	4.6	21	13,000,000	22,000,000
M,P-XYLENE	67,000 U	360,000 U	360,000 U	290,000 U	3,400	41,000 U	110,000 U	89,000 U	5.2 U	3,400 U	16,000 U	46,000 U	3.2 U	3.1 U	110,000 U	110,000 U
O-XYLENE	67,000 U	360,000 U	360,000 U	290,000 U	2,900 U	41,000 U	110,000 U	89,000 U	5.2 U	3,400 U	16,000 U	46,000 U	3.2 U	3.1 U	110,000 U	110,000 U
TOLUENE	58,000 U	310,000 U	310,000 U	250,000 U	7,300	35,000 U	98,000 U	77,000 U	4.6 U	6,600	14,000 U	40,000 U	2.8 U	2.6 U	93,000 U	93,000 U
Analytical Method TO15 (rerun)	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
BENZENE	2,600	-	-	-	-	-	54,000	48,000	-	170	1,200 U	770 U	-	-	-	-
ETHYL BENZENE	3,100 U	-	-	-	-	-	450 U	440 U	-	130 U	1,600 U	1,000 U	-	-	-	-
M,P-XYLENE	3,100 U	-	-	-	-	-	9,700	7,400	-	130 U	1,600 U	1,000 U	-	-	-	-
O-XYLENE	3,100 U	-	-	-	-	-	1,200	1,000	-	130 U	1,600 U	1,000 U	-	-	-	-
TOLUENE	2,700 U	-	-	-	-	-	8,600	7,400	-	120 U	1,400 U	900 U	-	-	-	-

Notes:
%-result is reported as a percent
U-compound was analyzed for but not detected above reporting limit
J-Estimated value, analyte detected below reporting limit
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-3B
ACTIVE SOIL VAPOR ANALYTICAL RESULTS (ug/m3)
VMP-1 Through VMP-54
January 2005-March 2005

Hartford Working Group
Hartford, Illinois

Location ID	VMP-29	VMP-29	VMP-30	VMP-30	VMP-30	VMP-30	VMP-30	VMP-31	VMP-31	VMP-31	VMP-31	VMP-32	VMP-32	VMP-32	VMP-32	VMP-32	VMP-32
Port ID	VMP-29M	VMP-29M	VMP-30D	VMP-30M	VMP-30S	VMP-30S	VMP-30VS	VMP-31AM	VMP-31D	VMP-31S	VMP-31VS	VMP-32D	VMP-32D	VMP-32M	VMP-32M	VMP-32S	VMP-32S
Sample Date	2/21/2005	3/23/2005	1/11/2005	1/11/2005	1/11/2005	1/11/2005	1/11/2005	1/13/2005	1/13/2005	1/13/2005	1/13/2005	1/12/2005	1/19/2005	1/12/2005	1/19/2005	1/12/2005	1/12/2005
Sample ID	022105-VMP-29M	032305-VMP-29 M	011105-VMP30D	011105-VMP30M	011105-VMP30S	011105-VMP30S DUP	011105-VMP30VS	011305-VMP31AM	011305-VMP31D	011305-VMP31S	011305-VMP31VS	011205-VMP32D	011905-VMP-32D	011205-VMP32M	011905-VMP-32M	011205-VMP32S	011205-VMP32S DUP
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method TO14	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1-BUTENE	18	9.6	18	7.4 U	7.0 U	7.1 U	7.0 U	7.0 U	6.6 U	7.0 U	20	2,200 U	7,600	1,800 U	6,700	11 U	11 U
ACETYLENE	7.9 U	8.1 U	8.4 U	8.6 U	8.1 U	8.2 U	8.1 U	8.1 U	7.7 U	8.1 U	7.5 U	2,500 U	3,100 U	2,100 U	2,800 U	13 U	13 U
BUTANE	9,200	730	2,400	36	51	96	160	18 U	17 U	18 U	620	10,000,000	12,000,000	9,200,000	12,000,000	29 U	29 U
CIS-2-BUTENE	54	14	110	7.4 U	7.0 U	7.1 U	7.0 U	7.0 U	6.6 U	7.0 U	25	3,000	16,000	2,300	14,000	11 U	11 U
ETHANE	410	340	9.7 U	9.9 U	10	10	79	240	8.8 U	46	8.7 U	25,000	29,000	25,000	30,000	15 U	15 U
ETHENE	110	97	9.1 U	9.2 U	8.7 U	8.9 U	8.7 U	8.7 U	8.3 U	8.7 U	8.1 U	2,700 U	3,300 U	2,300 U	3,000 U	14 U	14 U
ISOBUTANE	6,500	320	320	12	11	34	65	100	6.8 U	22	280	4,200,000	4,600,000	4,000,000	4,700,000	12 U	12 U
PROPANE	640	190	14 U	14 U	15	18	38	100	13 U	43	26	190,000	220,000	180,000	220,000	22 U	22 U
PROPYLENE	43	44	14 U	14 U	13 U	13 U	13 U	13 U	12 U	13 U	12 U	4,100 U	5,000 U	3,500 U	4,600 U	21 U	21 U
TRANS-2-BUTENE	160	38	140	7.4 U	7.0 U	7.1 U	7.0 U	7.0 U	6.6 U	7.0 U	31	9,900	32,000	7,200	27,000	11 U	11 U
Analytical Method TO15	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1,2,4-TRIMETHYLBENZENE	91 U	15 U	3.9 U	4.0 U	3.7 U	3.8 U	3.7 U	3.7 U	3.5 U	3.7 U	3.5 U	120,000 U	140,000 U	120,000 U	130,000 U	6.1 U	5.9 U
1,3,5-TRIMETHYLBENZENE	91 U	15 U	3.9 U	4.0 U	3.7 U	3.8 U	3.7 U	3.7 U	3.5 U	3.7 U	3.5 U	120,000 U	140,000 U	120,000 U	130,000 U	6.1 U	5.9 U
1,3-BUTADIENE	41 U	6.7 U	1.7 U	1.8 U	1.7 U	1.7 U	1.7 U	1.7 U	1.6 U	1.7 U	1.6 U	53,000 U	64,000 U	54,000 U	59,000 U	2.7 U	2.7 U
BENZENE	59 U	9.7 U	2.5 U	2.6 U	2.4 U	2.5 U	2.4 U	2.4 U	3.2	2.4 U	2.2 U	76,000 U	93,000 U	77,000 U	85,000 U	3.9 U	3.9 U
ETHYL BENZENE	81 U	13 U	3.4 U	3.5 U	3.3 U	3.4 U	3.3 U	3.3 U	3.1 U	3.3 U	3.1 U	100,000 U	130,000 U	100,000 U	120,000 U	5.4 U	5.2 U
HEXANE	220	72	2.8 U	2.8 U	2.7 U	2.7 U	2.7 U	2.7 U	2.5 U	2.7 U	2.5 U	1,100,000	1,300,000	750,000	920,000	4.4 U	4.3 U
ISOPENTANE	15,000 J	1,900	6.1	5.9	12	13	24	9.8	2.1 U	11	2.1 U	18,000,000	20,000,000	18,000,000	20,000,000	9.2	6.9
M,P-XYLENE	81 U	13 U	3.4 U	3.5 U	3.3 U	3.4 U	3.3 U	3.3 U	3.1 U	3.3 U	3.1 U	100,000 U	130,000 U	100,000 U	120,000 U	5.4 U	5.2 U
O-XYLENE	81 U	13 U	3.4 U	3.5 U	3.3 U	3.4 U	3.3 U	3.3 U	3.1 U	3.3 U	3.1 U	100,000 U	130,000 U	100,000 U	120,000 U	5.4 U	5.2 U
TOLUENE	70 U	11 U	3.0 U	3.0 U	2.9 U	2.9 U	2.9 U	2.9 U	2.7 U	2.9 U	2.6 U	90,000 U	110,000 U	91,000 U	100,000 U	6.1	5.7
Analytical Method TO15 (rerun)	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
BENZENE	-	-	-	-	-	-	-	-	-	-	-	18,000	24,000	14,000	24,000	-	-
ETHYL BENZENE	-	-	-	-	-	-	-	-	-	-	-	2,600 U	10,000 U	2,600 U	9,200 U	-	-
M,P-XYLENE	-	-	-	-	-	-	-	-	-	-	-	6,200	10,000 U	3,900	9,200 U	-	-
O-XYLENE	-	-	-	-	-	-	-	-	-	-	-	2,600 U	10,000 U	2,600 U	9,200 U	-	-
TOLUENE	-	-	-	-	-	-	-	-	-	-	-	2,200 U	8,800 U	2,300 U	8,000 U	-	-

Notes:
%-result is reported as a percent
U-compound was analyzed for but not detected above reporting limit
J-Estimated value, analyte detected below reporting limit
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-3B
ACTIVE SOIL VAPOR ANALYTICAL RESULTS (ug/m3)
VMP-1 Through VMP-54
January 2005-March 2005

Hartford Working Group
Hartford, Illinois

Location ID	VMP-32	VMP-32	VMP-32	VMP-34	VMP-34	VMP-34	VMP-34	VMP-35	VMP-35	VMP-35	VMP-36	VMP-37	VMP-37	VMP-37	VMP-37	VMP-39	VMP-39
Port ID	VMP-32S	VMP-32VS	VMP-32VS	VMP-34D	VMP-34M	VMP-34S	VMP-34VS	VMP-35M	VMP-35S	VMP-35VS	VMP-36S	VMP-37D	VMP-37M	VMP-37S	VMP-37VS	VMP-39D	VMP-39M
Sample Date	1/19/2005	1/12/2005	1/19/2005	1/12/2005	1/12/2005	1/12/2005	1/12/2005	1/13/2005	1/13/2005	1/13/2005	1/11/2005	3/10/2005	3/10/2005	3/10/2005	3/10/2005	1/17/2005	1/17/2005
Sample ID	011905-VMP-32S	011205-VMP32VS	011905-VMP-32VS	011205-VMP34D	011205-VMP34M	011205-VMP34S	011205-VMP34VS	011305-VMP35M	011305-VMP35D	011305-VMP35VS	011105-VMP-36S	031005 VMP-37D	031005 VMP-37M	031005 VMP-37S	031005 VMP-37VS	011705-VMP-39D	011705-VMP-39M
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method TO14	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1-BUTENE	11 U	11 U	18 U	7.5 U	7.0 U	7.4 U	7.4 U	7.1	6.4 U	6.5 U	380,000	6.8 U	6.8 U	8.0 U	7.4 U	6.7 U	7.8
ACETYLENE	12 U	13 U	21 U	8.7 U	8.1 U	8.6 U	8.6 U	7.5 U	7.4 U	7.5 U	3,500 U	7.9 U	7.9 U	9.3 U	8.6 U	7.8 U	7.5 U
BUTANE	250	29	200	20	26	89	43	220	16 U	17 U	15,000,000	18 U	18 U	21 U	19 U	290	750
CIS-2-BUTENE	14	11 U	18 U	7.5 U	7.0 U	7.4 U	7.4 U	9.4	6.4 U	6.5 U	520,000	6.8 U	6.8 U	8.0 U	7.4 U	8.3	26
ETHANE	14 U	15 U	24 U	10 U	9.3 U	450	420	8.7 U	11	110	31,000	9.2 U	9.2 U	16	17	110	79
ETHENE	13 U	14 U	23 U	9.4 U	8.7 U	13	9.2 U	8.1 U	8.0 U	8.1 U	4,900	8.5 U	8.5 U	10 U	9.2 U	8.4 U	8.1 U
ISOBUTANE	72	12 U	41	7.8 U	9.3	140	110	97	6.6 U	25	3,700,000	7.1 U	7.1 U	8.3 U	7.6 U	57	120
PROPANE	21 U	22 U	36 U	15 U	14 U	370	250	13 U	12 U	30	120,000	13 U	13 U	16 U	14 U	68	51
PROPYLENE	20 U	21 U	34 U	14 U	13 U	14 U	14 U	12 U	12 U	12 U	5,700 U	13 U	13 U	15 U	14 U	12 U	12 U
TRANS-2-BUTENE	18	11 U	18 U	7.5 U	7.0 U	7.4 U	7.4 U	11	6.4 U	6.5 U	860,000	6.8 U	6.8 U	8.0 U	7.4 U	10	33
Analytical Method TO15	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1,2,4-TRIMETHYLBENZENE	11	5.9 U	23	4.0 U	3.7 U	4.0 U	4.0 U	3.5 U	3.4 U	3.5 U	56,000 U	-	-	-	-	14 U	9.2 U
1,3,5-TRIMETHYLBENZENE	5.7 U	5.9 U	9.8 U	4.0 U	3.7 U	4.0 U	4.0 U	3.5 U	3.4 U	3.5 U	56,000 U	-	-	-	-	14 U	9.2 U
1,3-BUTADIENE	2.6 U	2.7 U	4.4 U	1.8 U	1.7 U	1.8 U	1.8 U	1.6 U	1.5 U	1.6 U	25,000 U	-	-	-	-	6.4 U	4.2 U
BENZENE	19	11	70	2.6 U	2.4 U	2.6 U	2.6 U	2.2 U	2.2 U	2.2 U	37,000 U	-	-	-	-	9.3 U	6.0 U
ETHYL BENZENE	12	5.2 U	23	3.6 U	3.3 U	3.5 U	3.5 U	3.1 U	3.0 U	3.1 U	50,000 U	-	-	-	-	13 U	8.2 U
HEXANE	38	12	480	6.4	5.4	4.9	7.9	2.5 U	2.4 U	2.5 U	1,200,000	-	-	-	-	41	13
ISOPENTANE	160	39	740	20	13	29	21	2.1	6.4	2.1 U	9,200,000	-	-	-	-	100	72
M,P-XYLENE	38	5.2 U	89	3.6 U	3.3 U	3.5 U	3.5 U	3.1 U	3.0 U	3.1 U	50,000 U	-	-	-	-	13 U	8.2 U
O-XYLENE	12	5.2 U	30	3.6 U	3.3 U	3.5 U	3.5 U	3.1 U	3.0 U	3.1 U	50,000 U	-	-	-	-	13 U	8.2 U
TOLUENE	46	15	87	3.1 U	2.9 U	3.0 U	3.0 U	3.3	2.6 U	2.6 U	43,000 U	-	-	-	-	11 U	7.1 U
Analytical Method TO15 (rerun)	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
BENZENE	-	-	-	-	-	-	-	-	-	-	51,000	-	-	-	-	-	-
ETHYL BENZENE	-	-	-	-	-	-	-	-	-	-	10,000 U	-	-	-	-	-	-
M,P-XYLENE	-	-	-	-	-	-	-	-	-	-	64,000	-	-	-	-	-	-
O-XYLENE	-	-	-	-	-	-	-	-	-	-	10,000 U	-	-	-	-	-	-
TOLUENE	-	-	-	-	-	-	-	-	-	-	40,000	-	-	-	-	-	-

Notes:
%-result is reported as a percent
U-compound was analyzed for but not detected above reporting limit
J-Estimated value, analyte detected below reporting limit
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-3B
ACTIVE SOIL VAPOR ANALYTICAL RESULTS (ug/m3)
VMP-1 Through VMP-54
January 2005-March 2005

Hartford Working Group
Hartford, Illinois

Location ID	VMP-39	VMP-39	VMP-42	VMP-42	VMP-42	VMP-42	VMP-43	VMP-43	VMP-43	VMP-43	VMP-44	VMP-44	VMP-44	VMP-44	VMP-44	VMP-45
Port ID	VMP-39S	VMP-39VS	VMP-42D	VMP-42M	VMP-42S	VMP-42VS	VMP-43M	VMP-43S	VMP-43S	VMP-43VS	VMP-44D	VMP-44M	VMP-44S	VMP-44VS	VMP-44VS	VMP-45S
Sample Date	1/17/2005	1/17/2005	1/12/2005	1/12/2005	1/12/2005	1/12/2005	1/13/2005	1/13/2005	1/13/2005	1/13/2005	1/12/2005	1/12/2005	1/12/2005	1/12/2005	1/12/2005	1/20/2005
Sample ID	011705-VMP-39S	011705-VMP-39VS	011205-VMP-42D	011205-VMP-42M	011205-VMP-42S	011205-VMP-42VS	011305-VMP43M	011305-VMP43S	011305-VMP43SDUP	011305-VMP43VS	011205-VMP-44D	011205-VMP-44M	011205-VMP-44S	011205-VMP-44VS	011205-VMP-44VS-DUP	012005-VMP-45S
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method TO14	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1-BUTENE	17	35	7.4 U	7.7 U	7.5 U	7.5 U	21	6.8 U	7.0 U	7.1 U	11 U	11 U	11 U	7.4 U	7.4 U	560 U
ACETYLENE	8.2 U	7.4 U	8.6 U	8.9 U	8.7 U	8.7 U	7.9 U	7.9 U	8.1 U	8.2 U	13 U	13 U	13 U	8.6 U	8.6 U	650 U
BUTANE	1,600	3,800	19 U	20 U	19 U	19 U	660	18 U	70	18 U	43	4,100	190	63	63	1,700,000
CIS-2-BUTENE	54	110	7.4 U	7.7 U	7.5 U	7.5 U	29	6.8 U	7.0 U	7.1 U	11 U	12	11 U	7.4 U	7.4 U	560 U
ETHANE	9.5 U	8.5 U	9.9 U	10 U	38	89	9.2 U	150	150	36	17	2,300	34	9.9 U	9.9 U	35,000
ETHENE	21	8.0 U	9.2 U	9.6 U	9.4 U	9.4 U	8.5 U	8.5 U	8.7 U	8.9 U	14 U	14 U	14 U	9.2 U	9.2 U	700 U
ISOBUTANE	200	580	7.6 U	8.0 U	22	30	280	33	62	7.4 U	32	4,900	92	26	27	2,400,000
PROPANE	14 U	31	14 U	15 U	40	16	22	13 U	14 U	14 U	22 U	940	21 U	14 U	14 U	21,000
PROPYLENE	36	12 U	14 U	14 U	14 U	14 U	13 U	13 U	13 U	13 U	21 U	21 U	20 U	14 U	14 U	1,000 U
TRANS-2-BUTENE	76	160	7.4 U	7.7 U	7.5 U	7.5 U	34	6.8 U	7.0 U	7.1 U	11 U	18	11 U	7.4 U	7.4 U	560 U
Analytical Method TO15	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1,2,4-TRIMETHYLBENZENE	3.8 U	3.4 U	4.0 U	4.1 U	4.0 U	4.0 U	3.7 U	3.7 U	3.7 U	3.8 U	5.9 U	370 U	5.8 U	4.0 U	4.0 U	75,000 U
1,3,5-TRIMETHYLBENZENE	3.8 U	3.4 U	4.0 U	4.1 U	4.0 U	4.0 U	3.7 U	3.7 U	3.7 U	3.8 U	5.9 U	370 U	5.8 U	4.0 U	4.0 U	75,000 U
1,3-BUTADIENE	1.7 U	1.5 U	1.8 U	1.8 U	1.8 U	1.8 U	1.6 U	1.6 U	1.7 U	1.7 U	2.7 U	170 U	2.6 U	1.8 U	1.8 U	34,000 U
BENZENE	43	2.2 U	2.6 U	2.7 U	2.6 U	2.6 U	2.4 U	2.4 U	2.4 U	2.5 U	37	240 U	3.9	2.6 U	3.6	50,000
ETHYL BENZENE	3.4 U	3.0 U	3.5 U	3.6 U	3.6 U	3.6 U	3.2 U	3.2 U	3.3 U	3.4 U	5.2 U	330 U	5.2 U	3.5 U	3.5 U	66,000 U
HEXANE	2.7 U	2.4 U	2.8 U	3.0 U	2.9 U	2.9 U	2.6 U	2.6 U	2.7 U	2.7 U	9.9	270 U	13	5.9	3.7	54,000 U
ISOPENTANE	6.3	2.6	2.4 U	2.5 U	33	7.1	3.2	14	14	2.3 U	77	7,800	53	22	22	9,700,000
M,P-XYLENE	3.4 U	3.0 U	8	3.6 U	3.6 U	3.6 U	3.2 U	3.2 U	3.3 U	3.4 U	11	330 U	6.2	3.5 U	3.5 U	66,000 U
O-XYLENE	3.4 U	3.0 U	3.8	3.6 U	3.6 U	3.6 U	3.2 U	3.2 U	3.3 U	3.4 U	5.2 U	330 U	5.2 U	3.5 U	3.5 U	66,000 U
TOLUENE	3.1	2.6 U	6.8	3.2 U	6	3.1 U	2.8 U	2.8 U	2.9 U	2.9 U	6.1	280 U	6.6	3.0 U	12	57,000 U
Analytical Method TO15 (rerun)	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
BENZENE	-	-	-	-	-	-	-	-	-	-	44	31 U	-	-	-	-
ETHYL BENZENE	-	-	-	-	-	-	-	-	-	-	5.2 U	42 U	-	-	-	-
M,P-XYLENE	-	-	-	-	-	-	-	-	-	-	13	42 U	-	-	-	-
O-XYLENE	-	-	-	-	-	-	-	-	-	-	5.2 U	42 U	-	-	-	-
TOLUENE	-	-	-	-	-	-	-	-	-	-	7.3	110	-	-	-	-

Notes:
%-result is reported as a percent
U-compound was analyzed for but not detected above reporting limit
J-Estimated value, analyte detected below reporting limit
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-3B
ACTIVE SOIL VAPOR ANALYTICAL RESULTS (ug/m3)
VMP-1 Through VMP-54
January 2005-March 2005

Hartford Working Group
Hartford, Illinois

Location ID	VMP-45	VMP-45	VMP-45	VMP-46	VMP-46	VMP-47	VMP-47	VMP-48	VMP-48	VMP-49	VMP-49	VMP-49	VMP-49	VMP-49
Port ID	VMP-45S	VMP-45S	VMP-45S	VMP-46S	VMP-46VS	VMP-47S	VMP-47VS	VMP-48S	VMP-48VS	VMP-49S	VMP-49S	VMP-49S	VMP-49S	VMP-49VS
Sample Date	2/1/2005	2/1/2005	2/3/2005	1/20/2005	1/20/2005	1/20/2005	1/20/2005	1/20/2005	1/20/2005	1/20/2005	2/1/2005	2/1/2005	2/3/2005	1/20/2005
Sample ID	020105 HCCPSVMP-45S	020105 HCC PSVMP-45S	020305-HCCPS-VMP-45S	012005-VMP-46S	012005-VMP-46VS	012005-VMP-47S	012005-VMP-47VS	012005-VMP-48S	012005-VMP-48VS	012005-VMP-49S	020105 HCC PSVMP-49S	020105 HCCPSVMP-49S	020305-HCCPS-VMP-49S	012005-VMP-49VS
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method TO14	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1-BUTENE	-	400 U	450 U	1,400 U	1,300	4,900 U	550 U	7,500 U	85	13,000	14,000	-	17,000 U	15,000
ACETYLENE	-	460 U	530 U	1,700 U	1,400 U	5,700 U	630 U	8,700 U	16 U	13,000 U	14,000 U	-	20,000 U	12,000 U
BUTANE	-	1,600,000	1,500,000	6,900,000	5,400,000	21,000,000	2,700,000	31,000,000	65,000	54,000,000	59,000,000	-	84,000,000	50,000,000
CIS-2-BUTENE	-	400 U	450 U	1,400 U	1,200 U	4,900 U	550 U	41,000	310	88,000	95,000	-	110,000	100,000
ETHANE	-	33,000	30,000	48,000	47,000	77,000	14,000	57,000	1,100	140,000	160,000	-	150,000	150,000
ETHENE	-	500 U	570 U	1,800 U	1,500 U	6,100 U	680 U	9,400 U	66	14,000 U	15,000 U	-	22,000 U	13,000 U
ISOBUTANE	-	2,100,000	2,000,000	3,400,000	4,600,000	5,600,000	880,000	5,000,000	31,000	11,000,000	12,000,000	-	14,000,000	11,000,000
PROPANE	-	21,000	20,000	56,000	56,000	100,000	14,000	180,000	650	280,000	320,000	-	490,000	190,000
PROPYLENE	-	750 U	850 U	2,700 U	2,200 U	9,200 U	1,000 U	14,000 U	40	21,000 U	22,000 U	-	33,000 U	20,000 U
TRANS-2-BUTENE	-	480	470	2,200	1,700	6,100	990	110,000	700	300,000	320,000	-	350,000	320,000
Analytical Method TO15	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1,2,4-TRIMETHYLBENZENE	62,000 U	-	66,000 U	81,000 U	95,000 U	260,000 U	30,000 U	160,000 U	840 U	380,000 U	-	690,000 U	1,000,000 U	350,000 U
1,3,5-TRIMETHYLBENZENE	62,000 U	-	66,000 U	81,000 U	95,000 U	260,000 U	30,000 U	160,000 U	840 U	380,000 U	-	690,000 U	1,000,000 U	350,000 U
1,3-BUTADIENE	28,000 U	-	30,000 U	36,000 U	43,000 U	120,000 U	14,000 U	72,000 U	380 U	170,000 U	-	310,000 U	470,000 U	160,000 U
BENZENE	45,000	-	87,000	52,000 U	62,000 U	170,000 U	20,000 U	750,000	25,000	1,900,000	-	2,000,000	2,000,000	1,200,000
ETHYL BENZENE	55,000 U	-	58,000 U	71,000 U	84,000 U	230,000 U	27,000 U	140,000 U	2,300	340,000 U	-	610,000 U	930,000 U	310,000 U
HEXANE	180,000 U	-	320,000	58,000 U	68,000 U	2,700,000	100,000	2,100,000	2,400	5,900,000	-	7,400,000	6,800,000	4,800,000
ISOPENTANE	10,000,000	-	15,000,000	12,000,000	14,000,000	45,000,000	4,900,000	36,000,000	160,000	73,000,000	-	97,000,000	100,000,000	68,000,000
M,P-XYLENE	55,000 U	-	58,000 U	71,000 U	84,000 U	230,000 U	27,000 U	140,000 U	740 U	340,000 U	-	610,000 U	930,000 U	310,000 U
O-XYLENE	55,000 U	-	58,000 U	71,000 U	84,000 U	230,000 U	27,000 U	140,000 U	740 U	340,000 U	-	610,000 U	930,000 U	310,000 U
TOLUENE	48,000 U	-	50,000 U	62,000 U	73,000 U	200,000 U	23,000 U	120,000 U	640 U	290,000 U	-	530,000 U	810,000 U	270,000 U
Analytical Method TO15 (rerun)	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
BENZENE	-	-	-	-	17,000	40,000	1,300	-	-	-	-	-	-	-
ETHYL BENZENE	-	-	-	-	670 U	700 U	130 U	-	-	-	-	-	-	-
M,P-XYLENE	-	-	-	-	690	1,200	130 U	-	-	-	-	-	-	-
O-XYLENE	-	-	-	-	670 U	700 U	130 U	-	-	-	-	-	-	-
TOLUENE	-	-	-	-	580 U	680	110 U	-	-	-	-	-	-	-

Notes:
%-result is reported as a percent
U-compound was analyzed for but not detected above reporting limit
J-Estimated value, analyte detected below reporting limit
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-3B
ACTIVE SOIL VAPOR ANALYTICAL RESULTS (ug/m3)
VMP-1 Through VMP-54
January 2005-March 2005

Hartford Working Group
Hartford, Illinois

Location ID	VMP-50	VMP-50	VMP-51	VMP-51	VMP-51	VMP-52	VMP-53	VMP-53	VMP-53	VMP-53	VMP-53	VMP-54	VMP-54
Port ID	VMP-50S	VMP-50VS	VMP-51S	VMP-51S	VMP-51VS	VMP-52VS	VMP-53S	VMP-53S	VMP-53S	VMP-53S	VMP-53VS	VMP-54D	VMP-54VS
Sample Date	1/20/2005	1/20/2005	1/20/2005	1/20/2005	1/20/2005	1/20/2005	1/20/2005	2/1/2005	2/1/2005	2/3/2005	1/20/2005	1/18/2005	1/18/2005
Sample ID	012005-VMP-50S	012005-VMP-50VS	012005-VMP-51S-Dup	012005-VMP-51S	012005-VMP-51VS	012005-VMP-52VS	012005-VMP-53S	020105 HCC PSVMP-53S	020105 HCCPSVMP-53S	020305-HCCPS-VMP-53S	012005-VMP-53VS	011805-VMP-54D	011805-VMP-54VS
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method TO14	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1-BUTENE	94 U	7100 U	6,000 U	7,100 U	7,000 U	11	600 U	430 U	-	410 U	180 U	1,600 U	1,600 U
ACETYLENE	110 U	8,200 U	7,000 U	8,200 U	8,100 U	11 U	700 U	500 U	-	470 U	200 U	1,900 U	1,800 U
BUTANE	520,000	37,000,000	33,000,000	32,000,000	29,000,000	290	320,000	150,000	-	120,000	79,000	6,200,000	5,700,000
CIS-2-BUTENE	420	30,000	13,000	12,000	20,000	13	600 U	430 U	-	410 U	180 U	1,600 U	1,600 U
ETHANE	2,000	140,000	160,000	150,000	150,000	240	68,000	63,000	-	58,000	22,000	70,000	74,000
ETHENE	120 U	8,900 U	7,600 U	8,800 U	8,700 U	12 U	750 U	540 U	-	510 U	220 U	2,100 U	1,900 U
ISOBUTANE	120,000	8,500,000	9,400,000	9,000,000	9,000,000	4,700	2,900,000	23,000 00	-	1,800,000	720,000	1,200,000	1,200,000
PROPANE	1,400	95,000	98,000	97,000	120,000	64	18,000	13,000	-	10,000	4,700	30,000	29,000
PROPYLENE	180 U	13,000 U	11,000 U	13,000 U	13,000 U	26	1,100 U	810 U	-	760 U	330 U	3,100 U	2,900 U
TRANS-2-BUTENE	1,400	99,000	39,000	38,000	58,000	14	600 U	430 U	-	410 U	180 U	3,000	1,600
Analytical Method TO15	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1,2,4-TRIMETHYLBENZENE	5,900 U	480,000 U	370,000 U	430,000 U	370,000 U	130 U	120,000 U	-	170,000 U	76,000 U	16,000 U	120,000 U	120,000 U
1,3,5-TRIMETHYLBENZENE	5,900 U	480,000 U	370,000 U	430,000 U	370,000 U	130 U	120,000 U	-	170,000 U	76,000 U	16,000 U	120,000 U	120,000 U
1,3-BUTADIENE	2,600 U	210,000 U	170,000 U	190,000 U	170,000 U	57 U	52,000 U	-	78,000 U	34,000 U	7,200 U	53,000 U	53,000 U
BENZENE	4,600	840,000	700,000	670,000	340,000	1,700	75,000 U	-	110,000 U	50,000 U	10,000 U	77,000 U	77,000 U
ETHYL BENZENE	5,200 U	420,000 U	330,000 U	380,000 U	330,000 U	110 U	100,000 U	-	150,000 U	67,000 U	14,000 U	100,000 U	100,000 U
HEXANE	27,000	2,400,000	1,200,000	1,200,000	1,200,000	91 U	82,000 U	-	500,000 U	220,000 U	12,000 U	84,000 U	84,000 U
ISOPENTANE	780,000	62,000,000	73,000,000	66,000,000	65,000,000	23,000	17,000,000	-	16,000,000	12,000,000	3,500,000	18,000,000	17,000,000
M,P-XYLENE	5,200 U	420,000 U	330,000 U	380,000 U	330,000 U	710	100,000 U	-	150,000 U	67,000 U	14,000 U	100,000 U	100,000 U
O-XYLENE	5,200 U	420,000 U	330,000 U	380,000 U	330,000 U	110 U	100,000 U	-	150,000 U	67,000 U	14,000 U	100,000 U	100,000 U
TOLUENE	4,500 U	360,000 U	290,000 U	330,000 U	290,000 U	97 U	88,000 U	-	130,000 U	58,000 U	12,000 U	90,000 U	90,000 U
Analytical Method TO15 (rerun)	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
BENZENE	-	-	-	-	-	-	850	110 U	-	20 U	140	-	-
ETHYL BENZENE	-	-	-	-	-	-	360 U	150 U	-	27 U	150	-	-
M,P-XYLENE	-	-	-	-	-	-	360 U	150 U	-	27 U	160	-	-
O-XYLENE	-	-	-	-	-	-	360 U	150 U	-	27 U	140 U	-	-
TOLUENE	-	-	-	-	-	-	440	130 U	-	23 U	280	-	-

Notes:
%-result is reported as a percent
U-compound was analyzed for but not detected above reporting limit
J-Estimated value, analyte detected below reporting limit
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-4 A
ACTIVD SOIL VAPOR ANALYTICAL RESULTS (ppbv)
VMP-55 through VMP-96
January - March 2005

Hartford Working Group
Hartford, Illinois

Location ID	VMP-55	VMP-55	VMP-55	VMP-56	VMP-56	VMP-57	VMP-57	VMP-58	VMP-58	VMP-61	VMP-61	VMP-61	VMP-61	VMP-64	VMP-64	VMP-65	VMP-65
Port ID	VMP-55S	VMP-55S	VMP-55VS	VMP-56S	VMP-56VS	VMP-57S	VMP-57VS	VMP-58S	VMP-58VS	VMP-61D	VMP-61M	VMP-61S	VMP-61VS	VMP-64S	VMP-64VS	VMP-65M	VMP-65S
Sample Date	1/18/2005	1/18/2005	1/18/2005	1/19/2005	1/19/2005	2/22/2005	2/22/2005	1/19/2005	1/19/2005	1/18/2005	1/18/2005	1/18/2005	1/18/2005	1/19/2005	1/19/2005	1/19/2005	1/19/2005
Sample ID	011805-VMP-55S	011805-VMP-55S-Dupe	011805-VMP-55VS	011905-VMP-56S	011905-VMP-56VS	022205-VMP-57S	022205-VMP-57VS	011905-VMP-58S	011905-VMP-58VS	011805-VMP-61D	011805-VMP-61M	011805-VMP-61S	011805-VMP-61VS	011905-VMP-64S	011905-VMP-64VS	011905-VMP-65M	011905-VMP-65S
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method D1946	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
CARBON DIOXIDE	2	1.8	0.2	1.3	2.8	1.5	0.44	11	5.7	0.04	2.5	2.3	2	3.5	2.4	11	6.6
METHANE	2.1	2.1	0.42	1.4	25	1.1	0.85	26	18	0.00021	0.00014 U	0.00062	0.00043	1.1	1.2	48	53
METHANE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OXYGEN	13	13	16	14	9.5	9	11	1.2	4.4	21	11	11	13	2.8	3.5	0.3	0.33
Analytical Method TO14	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1-BUTENE	6,200	6,100	2,100	200	280	1,500	610	530 U	360 U	3.1 U	2.8 U	2.8 U	3	20,000	18,000	1,200,000	1,100,000
ACETYLENE	7,700 U	6,600 U	2,700 U	160 U	560 U	580 U	320 U	1,300 U	900 U	7.8 U	7.0 U	7.0 U	7.0 U	780 U	660 U	32,000 U	33,000 U
BUTANE	12,000,000	12,000,000	4,200,000	280,000	210,000	860,000	460,000	97,000	130,000	7.8 U	7.0 U	8.8	11	1,200,000	1,000,000	50,000,000	50,000,000
CIS-2-BUTENE	16,000	15,000	5,100	300	230 U	8,900	3,000	530 U	360 U	3.1 U	2.8 U	2.8 U	2.8 U	55,000	48,000	2,800,000	2,700,000
ETHANE	9,900	9,100	2,700	3,400	39,000	3,800	2,500	60,000	44,000	8.6	12	25	34	2,900	2,700	380,000	390,000
ETHENE	7,700 U	6,600 U	2,700 U	980	810	1,800	980	1,300 U	900 U	7.8 U	7.0 U	26	26	780 U	660 U	47,000	48,000
ISOBUTANE	1,300,000	1,200,000	450,000	90,000	1,200,000	74,000	46,000	1,900,000	1,400,000	3.1 U	2.8 U	4	7	270,000	240,000	15,000,000	15,000,000
PROPANE	14,000	14,000	5,100	400	2,300	4,600	2,900	7,200	5,500	7.8 U	7.0 U	14	15	13,000	12,000	1,300,000	1,300,000
PROPYLENE	7,700 U	6,600 U	2,700 U	580	560 U	990	530	1,300 U	900 U	7.8 U	7.0 U	13	16	780 U	660 U	32,000 U	33,000 U
TRANS-2-BUTENE	33,000	33,000	10,000	520	360	14,000	5,000	530 U	410	3.1 U	2.8 U	2.8 U	2.8 U	70,000	61,000	3,500,000	3,500,000
Analytical Method TO15	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1,2,4-TRIMETHYLBENZENE	70,000 U	58,000 U	22,000 U	4,800 U	18,000 U	5,800 U	3,200 U	22,000 U	11,000 U	0.78 U	0.70 U	0.70 U	1.1	6,600 U	6,600 U	130,000 U	130,000 U
1,3,5-TRIMETHYLBENZENE	70,000 U	58,000 U	22,000 U	4,800 U	18,000 U	5,800 U	3,200 U	22,000 U	11,000 U	0.78 U	0.70 U	0.70 U	0.70 U	6,600 U	6,600 U	130,000 U	130,000 U
1,3-BUTADIENE	70,000 U	58,000 U	22,000 U	4,800 U	18,000 U	5,800 U	3,200 U	22,000 U	11,000 U	0.78 U	0.70 U	0.70 U	0.70 U	6,600 U	6,600 U	130,000 U	130,000 U
BENZENE	70,000 U	58,000 U	22,000 U	4,800 U	18,000 U	36,000	3,200 U	22,000 U	11,000 U	1.1	0.70 U	0.7	0.73	19,000	25,000	690,000	350,000
ETHYL BENZENE	70,000 U	58,000 U	22,000 U	4,800 U	18,000 U	5,800 U	3,200 U	22,000 U	11,000 U	0.78 U	0.70 U	0.70 U	3.1	6,600 U	13,000	130,000 U	130,000 U
HEXANE	1,400,000	1,500,000	740,000	18,000	18,000 U	82,000	35,000	71,000	92,000	0.78 U	0.94	0.72	2.3	380,000	360,000	1,800,000	1,500,000
ISOPENTANE	16,000,000	18,000,000	5,800,000	1,200,000	4,900,000	1,500,000	740,000	3,600,000	2,200,000	2.5	3	8.9	9.2	1,900,000	1,600,000	33,000,000	27,000,000
M,P-XYLENE	70,000 U	58,000 U	22,000 U	4,800 U	18,000 U	5,800 U	3,200 U	22,000 U	11,000 U	0.78 U	1.9	1.1	10	26,000	41,000	130,000 U	130,000 U
O-XYLENE	70,000 U	58,000 U	22,000 U	4,800 U	18,000 U	5,800 U	3,200 U	22,000 U	11,000 U	0.78 U	0.70 U	0.70 U	2	11,000	12,000	130,000 U	130,000 U
TOLUENE	94,000	100,000	49,000	4,800 U	18,000 U	5,800 U	3,200 U	22,000 U	11,000 U	1.4	2.6	1.5	16	37,000	70,000	260,000	210,000
Analytical Method TO15 (rerun)	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
BENZENE	-	-	-	3,600	590	-	1,300	11,000	5,700	-	-	-	-	-	-	-	-
ETHYL BENZENE	-	-	-	100	70 U	-	100	16,000	5,200	-	-	-	-	-	-	-	-
M,P-XYLENE	-	-	-	130	70 U	-	100	22,000	7,400	-	-	-	-	-	-	-	-
O-XYLENE	-	-	-	72 U	70 U	-	13	700	670 U	-	-	-	-	-	-	-	-
TOLUENE	-	-	-	250	70 U	-	24	1,400	670 U	-	-	-	-	-	-	-	-

Notes:
%-result is reported as a percent
U-compound was analyzed for but not detected above reporting limit
J-Estimated value
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-4 A
ACTIVD SOIL VAPOR ANALYTICAL RESULTS (ppbv)
VMP-55 through VMP-96
January - March 2005

Hartford Working Group
Hartford, Illinois

Location ID	VMP-65	VMP-66	VMP-66	VMP-66	VMP-67	VMP-67	VMP-67	VMP-67	VMP-67	VMP-68	VMP-68	VMP-68	VMP-68	VMP-68	VMP-68	VMP-68	VMP-68
Port ID	VMP-65VS	VMP-66M	VMP-66S	VMP-66VS	VMP-67D	VMP-67M	VMP-67S	VMP-67VS	VMP-67VS	VMP-68D	VMP-68D	VMP-68M	VMP-68M	VMP-68S	VMP-68S	VMP-68VS	VMP-68VS
Sample Date	1/19/2005	1/17/2005	1/17/2005	1/17/2005	1/17/2005	1/17/2005	1/17/2005	1/17/2005	1/17/2005	1/10/2005	1/19/2005	1/10/2005	1/19/2005	1/10/2005	1/19/2005	1/10/2005	1/19/2005
Sample ID	011905-VMP-65VS	011705-VMP-66M	011705-VMP-66S	011705-VMP-66VS	011705-VMP-67D	011705-VMP-67M	011705-VMP-67S	011705-VMP-67VS-Dup	011705-VMP-67-VS	011005-VMP-68D	011905-VMP-68D	011005-VMP-68M	011905-VMP-68M	011005-VMP-68S	011905-VMP-68S	011005-VMP-68VS	011905-VMP-68VS
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method D1946	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
CARBON DIOXIDE	3.9	8.6	9.6	6.9	17	17	17	14	14	8.7	10	11	11	11	10	11	11
METHANE	46	0.00022 U	0.00015 U	0.00014 U	2.6	2.4	2.2	1.4	1.4	16	13	21	14	21	13	21	14
METHANE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OXYGEN	3.1	8.4	5	5.2	0.95	0.9	1.2	6.3	6.3	3.4	1.5	0.54	0.99	0.46	2.3	0.53	1.2
Analytical Method TO14	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1-BUTENE	1,000,000	4.3 U	3.0 U	5.3	2,500,000	2,000,000	1,800,000	1,900,000	2,000,000	5,900,000	6,800,000	7,000,000	7,200,000	7,400,000	6,400,000	7,400,000	6,900,000
ACETYLENE	30,000 U	11 U	7.4 U	7.0 U	36,000 U	29,000 U	29,000 U	28,000 U	28,000 U	52,000 U	60,000 U	62,000 U	65,000 U	64,000 U	60,000 U	70,000 U	69,000 U
BUTANE	46,000,000	11 U	31	39	64,000,000	52,000,000	48,000,000	51,000,000	53,000,000	100,000,000	120,000,000	120,000,000	120,000,000	130,000,000	110,000,000	130,000,000	120,000,000
CIS-2-BUTENE	2,600,000	4.3 U	3.4	3.9	4,800,000	4,000,000	3,600,000	3,900,000	4,100,000	9,000,000	10,000,000	11,000,000	11,000,000	11,000,000	9,600,000	11,000,000	10,000,000
ETHANE	340,000	11 U	7.4 U	46	260,000	220,000	200,000	140,000	140,000	1,100,000	1,000,000	1,300,000	1,100,000	1,400,000	960,000	1,300,000	1,000,000
ETHENE	40,000	11 U	7.4 U	40	560,000	350,000	310,000	230,000	230,000	460,000	480,000	550,000	520,000	590,000	470,000	570,000	490,000
ISOBUTANE	14,000,000	4.3 U	4.4	9	14,000,000	11,000,000	10,000,000	10,000,000	11,000,000	35,000,000	40,000,000	41,000,000	43,000,000	44,000,000	38,000,000	43,000,000	41,000,000
PROPANE	1,200,000	11 U	7.4 U	31	970,000	790,000	720,000	580,000	590,000	4,100,000	4,700,000	5,000,000	5,000,000	5,200,000	4,500,000	5,100,000	4,800,000
PROPYLENE	30,000 U	11 U	7.4 U	30	43,000	36,000	33,000	28,000 U	28,000 U	160,000	170,000	180,000	180,000	190,000	160,000	190,000	180,000
TRANS-2-BUTENE	3,300,000	4.3 U	3.7	4.2	5,700,000	4,600,000	4,300,000	4,600,000	4,800,000	11,000,000	13,000,000	13,000,000	14,000,000	14,000,000	12,000,000	14,000,000	13,000,000
Analytical Method TO15	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1,2,4-TRIMETHYLBENZENE	340,000 U	0.80 U	0.74 U	0.91	120,000 U	120,000 U	1,400 U	110,000 U	110,000 U	160,000 U	250,000 U	160,000 U	150,000 U	160,000 U	150,000 U	97,000 U	76,000 U
1,3,5-TRIMETHYLBENZENE	340,000 U	0.80 U	0.74 U	0.70 U	120,000 U	120,000 U	1,400 U	110,000 U	110,000 U	160,000 U	250,000 U	160,000 U	150,000 U	160,000 U	150,000 U	97,000 U	76,000 U
1,3-BUTADIENE	340,000 U	0.80 U	0.74 U	0.70 U	120,000 U	120,000 U	1,400 U	110,000 U	110,000 U	160,000 U	250,000 U	160,000 U	150,000 U	160,000 U	150,000 U	97,000 U	76,000 U
BENZENE	590,000	2.5	4.2	4.6	510,000	570,000	11,000	600,000	920,000	800,000	920,000	820,000	460,000	880,000	520,000	420,000	330,000
ETHYL BENZENE	340,000 U	0.80 U	0.74 U	0.70 U	120,000 U	120,000 U	1,400 U	110,000 U	110,000 U	160,000 U	250,000 U	160,000 U	150,000 U	160,000 U	150,000 U	97,000 U	76,000 U
HEXANE	3,000,000	2.1	5.4	10	1,100,000	1,300,000	24,000	1,300,000	2,100,000	1,600,000	1,800,000	1,700,000	1,200,000	2,000,000	1,200,000	870,000	720,000
ISOPENTANE	73,000,000	6.3	35	40	30,000,000	29,000,000	450,000	29,000,000	26,000,000	46,000,000	54,000,000	53,000,000	33,000,000	59,000,000	33,000,000	26,000,000	22,000,000
M,P-XYLENE	340,000 U	1.3	0.77	0.86	120,000 U	120,000 U	1,400 U	110,000 U	110,000 U	160,000 U	250,000 U	160,000 U	150,000 U	160,000 U	150,000 U	97,000 U	76,000 U
O-XYLENE	340,000 U	0.80 U	0.74 U	0.70 U	120,000 U	120,000 U	1,400 U	110,000 U	110,000 U	160,000 U	250,000 U	160,000 U	150,000 U	160,000 U	150,000 U	97,000 U	76,000 U
TOLUENE	660,000	2.9	3.5	3.6	130,000	130,000	5,700	220,000	800,000	300,000	250,000 U	290,000	150,000 U	400,000	150,000 U	170,000	110,000
Analytical Method TO15 (rerun)	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
BENZENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ETHYL BENZENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M,P-XYLENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
O-XYLENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOLUENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
%-result is reported as a percent
U-compound was analyzed for but not detected above reporting limit
J-Estimated value
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-4 A
ACTIVD SOIL VAPOR ANALYTICAL RESULTS (ppbv)
VMP-55 through VMP-96
January - March 2005

Hartford Working Group
Hartford, Illinois

Location ID	VMP-69	VMP-69	VMP-69	VMP-69	VMP-69	VMP-69	VMP-70	VMP-70	VMP-70	VMP-70	VMP-71	VMP-71	VMP-71	VMP-71	VMP-72	VMP-72	VMP-72
Port ID	VMP-69D	VMP-69D	VMP-69M	VMP-69M	VMP-69VS	VMP-69VS	VMP-70M	VMP-70S	VMP-70S	VMP-70VS	VMP-71S	VMP-71S	VMP-71VS	VMP-71VS	VMP-72D	VMP-72M	VMP-72S
Sample Date	1/10/2005	1/19/2005	1/10/2005	1/19/2005	1/10/2005	1/19/2005	1/10/2005	1/6/2005	1/10/2005	1/6/2005	1/6/2005	1/10/2005	1/6/2005	1/10/2005	1/11/2005	1/11/2005	1/11/2005
Sample ID	011005-VMP-69D	011905-VMP-69D	011005-VMP-69M	011905-VMP-69M	011005-VMP-69VS	011905-VMP-69VS	011005-VMP-70M	010605-VMP70-S	011005-VMP-70S	010605-VMP70-VS	010605-VMP71-S	011005-VMP-71S	010605-VMP71-VS	011005-VMP-71VS	011105-VMP72D	011105-VMP72M	011105-VMP72S
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method D1946	%	%	%	%	%	%	%	ppmv	%	ppmv	ppmv	%	ppmv	%	%	%	%
CARBON DIOXIDE	11	11	11	11	1.3	2	3.6		0.04			14		13	11	11	10
METHANE	2.6	2.8	2.5	2.7	1.6	1.9	7.4		0.00036			39		42	0.00018 U	0.00016 U	0.00016 U
METHANE	-	-	-	-	-	-	-	2	-	320	400,000	-	380,000	-	-	-	-
OXYGEN	0.79	0.99	0.81	1.1	8	1.6	5.4		19			0.41		0.45	9.4	9.6	10
Analytical Method TO14	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1-BUTENE	3,600,000	2,800,000	3,400,000	2,600,000	880,000	1,300,000	400,000	-	29	-	-	240,000	-	740,000	3.5 U	3.1 U	3.1 U
ACETYLENE	39,000 U	40,000 U	40,000 U	31,000 U	17,000 U	18,000 U	22,000 U	-	14 U	-	-	27,000 U	-	29,000 U	8.8 U	7.8 U	7.8 U
BUTANE	70,000,000	55,000,000	67,000,000	51,000,000	20,000,000	31,000,000	22,000,000	-	1,300	-	-	16,000,000	-	52,000,000	48	8.8	49
CIS-2-BUTENE	6,700,000	5,100,000	6,300,000	4,800,000	1,500,000	2,200,000	890,000	-	62	-	-	490,000	-	1,600,000	3.5 U	3.1 U	3.1 U
ETHANE	210,000	170,000	200,000	160,000	77,000	110,000	220,000	-	32	-	-	340,000	-	1,000,000	8.8 U	7.8 U	7.8 U
ETHENE	110,000	93,000	110,000	81,000	30,000	42,000	30,000	-	14 U	-	-	40,000	-	120,000	8.8 U	7.8 U	7.8 U
ISOBUTANE	18,000,000	14,000,000	17,000,000	13,000,000	5,400,000	8,100,000	6,700,000	-	390	-	-	6,800,000	-	21,000,000	19	3.1 U	18
PROPANE	890,000	730,000	850,000	660,000	280,000	420,000	820,000	-	52	-	-	980,000	-	3,000,000	8.8 U	7.8 U	7.8 U
PROPYLENE	39,000 U	40,000 U	40,000 U	31,000 U	17,000 U	18,000 U	22,000 U	-	14 U	-	-	27,000 U	-	41,000	8.8 U	7.8 U	7.8 U
TRANS-2-BUTENE	8,200,000	6,400,000	7,700,000	5,900,000	1,900,000	2,800,000	1,200,000	-	75	-	-	670,000	-	2,200,000	3.5 U	3.1 U	3.1 U
Analytical Method TO15	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1,2,4-TRIMETHYLBENZENE	91,000 U	200,000 U	80,000 U	190,000 U	22,000 U	120,000 U	78,000 U	0.72 U	7.9 U	3,500 U	120,000 U	110,000 U	130,000 U	96,000 U	0.88 U	0.78 U	1.7
1,3,5-TRIMETHYLBENZENE	91,000 U	200,000 U	80,000 U	190,000 U	22,000 U	120,000 U	78,000 U	0.72 U	7.9 U	3,500 U	120,000 U	110,000 U	130,000 U	96,000 U	0.88 U	0.78 U	0.78 U
1,3-BUTADIENE	91,000 U	200,000 U	80,000 U	190,000 U	22,000 U	120,000 U	78,000 U	0.72 U	7.9 U	3,500 U	120,000 U	110,000 U	130,000 U	96,000 U	0.88 U	0.78 U	0.78 U
BENZENE	400,000	820,000	370,000	640,000	22,000 U	120,000 U	340,000	0.72 U	38	8,800	830,000	750,000	550,000	670,000	0.88 U	0.78 U	1.9
ETHYL BENZENE	91,000 U	200,000 U	80,000 U	190,000 U	22,000 U	120,000 U	78,000 U	0.72 U	7.9 U	3,500 U	120,000 U	110,000 U	130,000 U	96,000 U	0.88 U	1.1	3.9
HEXANE	1,000,000	1,900,000	1,000,000	1,600,000	330,000	880,000	1,800,000	0.72 U	350	100,000	2,100,000	2,000,000	1,600,000	2,200,000	0.88 U	1.2	2.6
ISOPENTANE	23,000,000	45,000,000	21,000,000	38,000,000	6,800,000	21,000,000	31,000,000	2.6	1,400	780,000	38,000,000	31,000,000	30,000,000	30,000,000	0.9	2.7	3.1
M,P-XYLENE	91,000 U	200,000 U	80,000 U	190,000 U	22,000 U	120,000 U	78,000 U	0.72 U	7.9 U	6,000	120,000 U	110,000 U	130,000 U	96,000 U	0.88 U	3.5	12
O-XYLENE	91,000 U	200,000 U	80,000 U	190,000 U	22,000 U	120,000 U	78,000 U	0.72 U	7.9 U	3,500 U	120,000 U	110,000 U	130,000 U	96,000 U	0.88 U	1.1	3.1
TOLUENE	180,000	290,000	190,000	240,000	22,000 U	120,000 U	370,000	0.72 U	24	17,000	140,000	360,000	280,000	430,000	0.88 U	6.7	51
Analytical Method TO15 (rerun)	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
BENZENE	-	-	-	-	9,900	7,600	-	-	-	-	-	-	-	-	-	-	-
ETHYL BENZENE	-	-	-	-	15,000	3,400 U	-	-	-	-	-	-	-	-	-	-	-
M,P-XYLENE	-	-	-	-	55,000	10,000	-	-	-	-	-	-	-	-	-	-	-
O-XYLENE	-	-	-	-	16,000	6,800	-	-	-	-	-	-	-	-	-	-	-
TOLUENE	-	-	-	-	17,000	5,600	-	-	-	-	-	-	-	-	-	-	-

Notes:
%-result is reported as a percent
U-compound was analyzed for but not detected above reporting limit
J-Estimated value
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-4 A
ACTIVD SOIL VAPOR ANALYTICAL RESULTS (ppbv)
VMP-55 through VMP-96
January - March 2005

Hartford Working Group
Hartford, Illinois

Location ID	VMP-72	VMP-72	VMP-73	VMP-73	VMP-73	VMP-73	VMP-73	VMP-73	VMP-73	VMP-73	VMP-73	VMP-74	VMP-74	VMP-74	VMP-75	VMP-75
Port ID	VMP-72VS	VMP-72VS	VMP-73D	VMP-73D	VMP-73M	VMP-73M	VMP-73S	VMP-73S	VMP-73S	VMP-73VS	VMP-73VS	VMP-74D	VMP-74M	VMP-74VS	VMP-75M	VMP-75S
Sample Date	1/11/2005	1/11/2005	1/17/2005	1/19/2005	1/17/2005	1/19/2005	1/17/2005	1/19/2005	1/19/2005	1/17/2005	1/19/2005	1/10/2005	1/10/2005	1/10/2005	1/10/2005	1/10/2005
Sample ID	011105-VMP72VS DUP	011105-VMP72VS	011705-VMP-73D	011905-VMP-73D	011705-VMP-73M	011905-VMP-73M	011705-VMP-73S	011905-VMP-73S	011905-VMP-73S-DUP	011705-VMP-73VS	011905-VMP-73VS	011005-VMP-74D	011005-VMP-74M	011005-VMP-74VS	011005-VMP-75M	011005-VMP-75S
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method D1946	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
CARBON DIOXIDE	10	10	14	14	14	9.7	14	1.3	1.4	12	0.68	1.5	3	0.046	10	14
METHANE	0.00015 U	0.00015 U	1.5	1	1.2	0.48	0.87	0.0011	0.0011	0.69	0.00081	0.37	0.71	0.009	55	55
METHANE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OXYGEN	9.9	9.9	0.97	2.7	0.96	10	1	20	20	1.6	20	17	15	20	0.17	0.16
Analytical Method TO14	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1-BUTENE	2.9 U	3.0 U	650,000	370,000	580,000	130,000	470,000	6,000	6,100	350,000	3,800	61,000	94,000	270	2,700,000	1,300,000
ACETYLENE	7.3 U	7.4 U	18,000 U	11,000 U	16,000 U	4,000 U	14,000 U	140 U	150 U	11,000 U	100 U	1,300 U	2,400 U	32 U	61,000 U	43,000 U
BUTANE	12	26	36,000,000	20,000,000	32,000,000	7,100,000	27,000,000	280,000	280,000	20,000,000	190,000	2,300,000	3,600,000	14,000	100,000,000	82,000,000
CIS-2-BUTENE	2.9 U	3.0 U	1,800,000	1,100,000	1,600,000	410,000	1,300,000	31,000	32,000	1,000,000	19,000	150,000	230,000	530	5,200,000	2,600,000
ETHANE	14	14	120,000	72,000	110,000	32,000	86,000	200	200	67,000	100	29,000	44,000	160	590,000	600,000
ETHENE	16	15	180,000	100,000	160,000	41,000	110,000	340	360	77,000	180	19,000	29,000	75	290,000	130,000
ISOBUTANE	3.5	9	8,200,000	4,200,000	7,400,000	1,600,000	6,200,000	36,000	37,000	4,600,000	26,000	510,000	780,000	3,100	41,000,000	34,000,000
PROPANE	12	12	570,000	300,000	510,000	120,000	400,000	1,300	1,300	300,000	820	53,000	79,000	240	4,300,000	3,600,000
PROPYLENE	8.7	9	18,000 U	11,000 U	16,000 U	4,000 U	14,000 U	140 U	150 U	11,000 U	100 U	1,300 U	2,400 U	32 U	100,000	56,000
TRANS-2-BUTENE	2.9 U	3.0 U	2,200,000	1,300,000	1,900,000	460,000	1,600,000	29,000	30,000	1,200,000	18,000	180,000	280,000	730	6,600,000	3,600,000
Analytical Method TO15	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1,2,4-TRIMETHYLBENZENE	0.73 U	0.74 U	140,000 U	74,000 U	140,000 U	40,000 U	140,000 U	5,200 U	5,600 U	140,000 U	9,300 U	15,000 U	36,000 U	3,200 U	100,000 U	160,000 U
1,3,5-TRIMETHYLBENZENE	0.73 U	0.74 U	140,000 U	74,000 U	140,000 U	40,000 U	140,000 U	5,200 U	5,600 U	140,000 U	9,300 U	15,000 U	36,000 U	3,200 U	100,000 U	160,000 U
1,3-BUTADIENE	0.73 U	0.74 U	140,000 U	74,000 U	140,000 U	40,000 U	140,000 U	5,200 U	5,600 U	140,000 U	9,300 U	15,000 U	36,000 U	3,200 U	100,000 U	160,000 U
BENZENE	1.8	1.9	900,000	690,000	1,000,000	810,000	860,000	500,000	470,000	1,200,000	980,000	120,000	250,000	10,000	780,000	760,000
ETHYL BENZENE	1.5	1.5	140,000 U	74,000 U	140,000 U	40,000 U	140,000 U	5,200 U	5,600 U	140,000 U	9,300 U	15,000 U	36,000 U	3,200 U	100,000 U	160,000 U
HEXANE	7.2	7.7	1,800,000	1,500,000	2,000,000	2,200,000	1,900,000	1,600,000	1,500,000	3,500,000	2,400,000	310,000	580,000	34,000	1,800,000	2,000,000
ISOPENTANE	10	11	36,000,000	17,000,000	35,000,000	8,500,000	34,000,000	610,000	620,000	48,000,000	640,000	4,000,000	7,600,000	560,000	40,000,000	36,000,000
M,P-XYLENE	4.3	4.4	140,000 U	74,000 U	140,000 U	40,000 U	140,000 U	7,900	6,900	140,000 U	9,300 U	15,000 U	36,000 U	3,200 U	100,000 U	160,000 U
O-XYLENE	1.1	1.1	140,000 U	74,000 U	140,000 U	40,000 U	140,000 U	5,200 U	5,600 U	140,000 U	9,300 U	15,000 U	36,000 U	3,200 U	100,000 U	160,000 U
TOLUENE	29	29	140,000 U	180,000	160,000	320,000	140,000 U	260,000	240,000	170,000	360,000	30,000	58,000	5,900	200,000	250,000
Analytical Method TO15 (rerun)	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
BENZENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ETHYL BENZENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M,P-XYLENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
O-XYLENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOLUENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
%-result is reported as a percent
U-compound was analyzed for but not detected above reporting limit
J-Estimated value
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-4 A
ACTIVD SOIL VAPOR ANALYTICAL RESULTS (ppbv)
VMP-55 through VMP-96
January - March 2005

Hartford Working Group
Hartford, Illinois

Location ID	VMP-75	VMP-76	VMP-76	VMP-76	VMP-77	VMP-77	VMP-77	VMP-78	VMP-78	VMP-78	VMP-78	VMP-78	VMP-78	VMP-78	VMP-78	VMP-78	VMP-79
Port ID	VMP-75VS	VMP-76M	VMP-76S	VMP-76VS	VMP-77M	VMP-77S	VMP-77VS	VMP-78D	VMP-78M	VMP-78M	VMP-78M	VMP-78S	VMP-78S	VMP-78VS	VMP-78VS	VMP-7D	VMP-79D
Sample Date	1/10/2005	1/10/2005	1/10/2005	1/10/2005	1/18/2005	1/18/2005	1/18/2005	1/11/2005	1/11/2005	3/23/2005	3/23/2005	1/11/2005	3/23/2005	1/11/2005	3/23/2005	3/23/2005	1/17/2005
Sample ID	011005-VMP-75VS	011005-VMP-76M	011005-VMP-76S	011005-VMP-76VS	011805-VMP-77M	011805-VMP-77S	011805-VMP-77VS	011105-VMP-78D	011105-VMP-78M	032305-VMP-78 M	032305-VMP-78 M Dup	011105-VMP-78S	032305-VMP-78 S	011105-VMP-78VS	032305-VMP-78 VS	032305-VMP-78 D	011705-VMP-79D
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method D1946	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
CARBON DIOXIDE	9.1	4.3	13	7	17	16	12	13	12	3.3	3.3	12	2.5	9.4	1.3	11	13
METHANE	59	42	46	38	0.17	0.14	0.092	0.4	0.23	0.00044	0.00044	0.24	0.00015 U	0.16	0.00032	0.0089	0.00014 U
METHANE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OXYGEN	0.26	0.7	0.36	3.3	1	1.7	1.4	1.2	1.2	15	15	1.6	15	7	5.7	1.2	7.2
Analytical Method TO14	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1-BUTENE	1,300,000	3,200,000	1,000,000	560,000	170,000	150,000	78,000	4,200	3,300	3.0 U	3.2 U	3,400	3.0 U	2,500	3.2 U	750	2.8 U
ACETYLENE	44,000 U	61,000 U	44,000 U	32,000 U	5,400 U	5,200 U	2,900 U	270 U	230 U	7.6 U	8.0 U	240 U	7.6 U	180 U	8.0 U	56 U	7.0 U
BUTANE	91,000,000	120,000,000	81,000,000	62,000,000	10,000,000	9,000,000	5,400,000	550,000	480,000	62	63	490,000	7.6 U	360,000	42	120,000	7.0 U
CIS-2-BUTENE	3,000,000	6,200,000	1,900,000	1,000,000	630,000	550,000	290,000	24,000	19,000	3.0 U	3.2 U	20,000	3.0 U	15,000	3.2 U	6,000	2.8 U
ETHANE	620,000	1,500,000	1,100,000	900,000	29,000	25,000	14,000	12,000	8,700	29	28	9,000	30	6,000	120	1,900	7.0 U
ETHENE	59,000	920,000	270,000	130,000	7,100	5,900	3,000	660	530	20	19	560	15	420	46	1,100	7.0 U
ISOBUTANE	36,000,000	46,000,000	33,000,000	26,000,000	2,000,000	1,800,000	1,100,000	97,000	86,000	18	19	88,000	3.2	62,000	13	11,000	2.8 U
PROPANE	3,300,000	7,500,000	5,000,000	3,900,000	66,000	59,000	35,000	3,200	2,600	7.6 U	8.0 U	2,600	7.6 U	1,800	24	170	7.0 U
PROPYLENE	44,000 U	160,000	47,000	32,000 U	5,400 U	5,200 U	2,900 U	270 U	230 U	7.6	8.0 U	240 U	7.6 U	180 U	20	260	7.0 U
TRANS-2-BUTENE	3,900,000	7,800,000	2,500,000	1,400,000	720,000	640,000	340,000	28,000	23,000	3.0 U	3.2 U	24,000	3.0 U	18,000	3.9	6,700	2.8 U
Analytical Method TO15	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1,2,4-TRIMETHYLBENZENE	190,000 U	190,000 U	100,000 U	78,000 U	64,000 U	43,000 U	43,000 U	5,400 U	3,600 U	28	27	5,200 U	78	4,900 U	130 U	6,200 U	0.70 U
1,3,5-TRIMETHYLBENZENE	190,000 U	190,000 U	100,000 U	78,000 U	64,000 U	43,000 U	43,000 U	5,400 U	3,600 U	13	13	5,200 U	64	4,900 U	130 U	6,200 U	0.70 U
1,3-BUTADIENE	190,000 U	190,000 U	100,000 U	78,000 U	64,000 U	43,000 U	43,000 U	5,400 U	3,600 U	3.0 U	3.2 U	5,200 U	0.76 U	4,900 U	130 U	6,200 U	0.70 U
BENZENE	710,000	920,000	520,000	260,000	790,000	730,000	43,000 U	150,000	110,000	3.0 U	3.2 U	120,000	3.6	53,000	130 U	250,000	0.70 U
ETHYL BENZENE	190,000 U	190,000 U	100,000 U	78,000 U	64,000 U	43,000 U	43,000 U	38,000	17,000	3.5	3.2 U	9,200	2.3	4,900 U	130 U	77,000	0.70 U
HEXANE	2,100,000	2,300,000	1,900,000	1,300,000	2,500,000	2,100,000	2,100,000	930,000	860,000	850	930	880,000	41	930,000	810	1,600,000	0.70 U
ISOPENTANE	41,000,000	52,000,000	33,000,000	23,000,000	18,000,000	16,000,000	12,000,000	1,200,000	1,100,000	590	630	1,200,000	26	1,000,000	940	1,200,000	0.70 U
M,P-XYLENE	190,000 U	190,000 U	100,000 U	78,000 U	64,000 U	43,000 U	43,000 U	89,000	35,000	12	12	20,000	9.2	4,900 U	340	190,000	0.70 U
O-XYLENE	190,000 U	190,000 U	100,000 U	78,000 U	64,000 U	43,000 U	43,000 U	19,000	3,600 U	5.2	5.3	5,200 U	49	4,900 U	130 U	37,000	0.70 U
TOLUENE	260,000	320,000	290,000	280,000	270,000	230,000	43,000 U	310,000	160,000	3.8	3.5	120,000	3.3	7,800	210	450,000	0.70 U
Analytical Method TO15 (rerun)	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
BENZENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48	-	-
ETHYL BENZENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40 U	-	-
M,P-XYLENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	300	-	-
O-XYLENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	86	-	-
TOLUENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	120	-	-

Notes:
%-result is reported as a percent
U-compound was analyzed for but not detected above reporting limit
J-Estimated value
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-4 A
ACTIVD SOIL VAPOR ANALYTICAL RESULTS (ppbv)
VMP-55 through VMP-96
January - March 2005

Hartford Working Group
Hartford, Illinois

Location ID	VMP-79	VMP-79	VMP-79	VMP-80	VMP-80	VMP-80	VMP-80	VMP-80	VMP-80	VMP-80	VMP-80	VMP-80	VMP-80	VMP-80	VMP-80	VMP-81
Port ID	VMP-79M	VMP-79M	VMP-79VS	VMP-80D	VMP-80D	VMP-80M	VMP-80M	VMP-80M	VMP-80M	VMP-80S	VMP-80S	VMP-80S	VMP-80VS	VMP-80VS	VMP-80VS	VMP-81D
Sample Date	1/17/2005	1/17/2005	1/17/2005	1/11/2005	3/23/2005	1/11/2005	1/11/2005	1/19/2005	3/23/2005	1/11/2005	1/19/2005	3/23/2005	1/11/2005	1/19/2005	3/23/2005	1/12/2005
Sample ID	011705-VMP-79M	011705-VMP-79M-Dup	011705-VMP-79VS	011105-VMP-80D	032305-VMP-80 D	011105-VMP-80M DUP	011105-VMP-80M	011905-VMP-80M	032305-VMP-80 M	011105-VMP-80S	011905-VMP-80S	032305-VMP-80 S	011105-VMP-80VS	011905-VMP-80VS	032305-VMP-80 VS	011205-VMP-81D
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method D1946	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
CARBON DIOXIDE	12	12	11	9.9	8.3	10	10	10	4.2	9	9.5	3.3	2.8	6.1	3	14
METHANE	0.00014 U	0.00014 U	0.00014 U	2.6	0.15	2.7	2.8	2.8	0.31	2.8	2.9	0.26	3.1	3	0.25	1.4
METHANE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OXYGEN	8.5	8.4	8.7	1.4	1.9	1.6	1.1	1.1	7	1.1	1	5	1.5	1.2	7.1	1.1
Analytical Method TO14	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1-BUTENE	2.9 U	2.9 U	2.8 U	39,000	20,000	35,000	36,000	33,000	49	6,200	36,000	55	28,000	30,000	21	38,000
ACETYLENE	7.2 U	7.2 U	7.0 U	2,900 U	1,400 U	3,000 U	2,600 U	2,600 U	44 U	3,400 U	3,100 U	40 U	2,900 U	2,800 U	36 U	2,200 U
BUTANE	7.2 U	7.2 U	7.0 U	4,700,000	2,400,000	4,400,000	4,600,000	4,300,000	3,000	800,000	4,400,000	4,500	4,000,000	4,100,000	2,700	3,900,000
CIS-2-BUTENE	2.9 U	2.9 U	2.8 U	200,000	110,000	180,000	190,000	170,000	110	32,000	180,000	110	140,000	160,000	34	220,000
ETHANE	7.2 U	7.5	9.7	91,000	13,000	92,000	94,000	91,000	76,000	16,000	89,000	69,000	140,000	130,000	61,000	36,000
ETHENE	7.2 U	7.2 U	7.0 U	2,900 U	1,400 U	3,000 U	2,600 U	2,600 U	190	3,400 U	3,100 U	590	2,900 U	2,800 U	320	2,200 U
ISOBUTANE	2.9 U	2.9 U	2.8 U	910,000	380,000	850,000	870,000	830,000	3,700	150,000	860,000	3,300	770,000	780,000	2,600	640,000
PROPANE	7.2 U	7.2 U	7.0 U	30,000	6,500	24,000	24,000	23,000	18,000	4,500	24,000	14,000	26,000	27,000	12,000	14,000
PROPYLENE	7.2 U	7.2 U	7.0 U	2,900 U	1,400 U	3,000 U	2,600 U	2,600 U	98	3,400 U	3,100 U	210	2,900 U	2,800 U	100	2,200 U
TRANS-2-BUTENE	2.9 U	2.9 U	2.8 U	260,000	140,000	240,000	240,000	230,000	72	42,000	240,000	200	190,000	210,000	60	250,000
Analytical Method TO15	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1,2,4-TRIMETHYLBENZENE	0.89	1.9	1.5	49,000 U	46,000 U	50,000 U	36,000 U	47,000 U	100	50,000 U	35,000 U	680	40,000 U	45,000 U	2,500	52,000 U
1,3,5-TRIMETHYLBENZENE	0.72 U	0.95	0.70 U	49,000 U	46,000 U	50,000 U	36,000 U	47,000 U	260	50,000 U	35,000 U	3,700	40,000 U	45,000 U	1,300	52,000 U
1,3-BUTADIENE	0.72 U	0.72 U	0.70 U	49,000 U	46,000 U	50,000 U	36,000 U	47,000 U	22 U	50,000 U	35,000 U	76 U	40,000 U	45,000 U	40 U	52,000 U
BENZENE	0.72 U	0.72 U	1.2	580,000	890,000	500,000	390,000	590,000	320	90,000	230,000	340	40,000 U	45,000 U	56	640,000
ETHYL BENZENE	1.9	2.2	4.1	49,000 U	46,000 U	50,000 U	36,000 U	47,000 U	170	50,000 U	35,000 U	910	40,000 U	45,000 U	230	52,000 U
HEXANE	1.2	1.3	2.4	2,800,000	4,900,000	2,600,000	2,000,000	2,600,000	620	2,500,000	2,200,000	8,400	1,900,000	2,100,000	1,800	3,000,000
ISOPENTANE	2.4	2.2	5.4	12,000,000	14,000,000	12,000,000	8,800,000	14,000,000	6,000	12,000,000	11,000,000	23,000	10,000,000	11,000,000	11,000	13,000,000
M,P-XYLENE	6.5	8.5	11	49,000 U	92,000	78,000	58,000	47,000 U	340	50,000 U	35,000 U	780	40,000 U	45,000 U	1,200	76,000
O-XYLENE	2	2.5	3.3	49,000 U	46,000 U	50,000 U	36,000 U	47,000 U	440	50,000 U	35,000 U	4,400	40,000 U	45,000 U	1,300	52,000 U
TOLUENE	11	12	19	520,000	950,000	490,000	420,000	580,000	530	50,000 U	97,000	460	40,000 U	45,000 U	270	510,000
Analytical Method TO15 (rerun)	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
BENZENE	-	-	-	-	-	-	-	-	-	-	-	-	4,200	-	-	-
ETHYL BENZENE	-	-	-	-	-	-	-	-	-	-	-	-	13,000	-	-	-
M,P-XYLENE	-	-	-	-	-	-	-	-	-	-	-	-	43,000	-	-	-
O-XYLENE	-	-	-	-	-	-	-	-	-	-	-	-	16,000	-	-	-
TOLUENE	-	-	-	-	-	-	-	-	-	-	-	-	29,000	-	-	-

Notes:
%-result is reported as a percent
U-compound was analyzed for but not detected above reporting limit
J-Estimated value
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-4 A
ACTIVD SOIL VAPOR ANALYTICAL RESULTS (ppbv)
VMP-55 through VMP-96
January - March 2005

Hartford Working Group
Hartford, Illinois

Location ID	VMP-81	VMP-81	VMP-81	VMP-81	VMP-81	VMP-82	VMP-82	VMP-82	VMP-83	VMP-83	VMP-83	VMP-83	VMP-84	VMP-84	VMP-84	VMP-84	VMP-84
Port ID	VMP-81M	VMP-81S	VMP-81S	VMP-81VS	VMP-81VS	VMP-82M	VMP-82S	VMP-82VS	VMP-83D	VMP-83M	VMP-83S	VMP-83VS	VMP-84D	VMP-84M	VMP-84M	VMP-84S	VMP-84S
Sample Date	1/12/2005	1/6/2005	1/12/2005	1/6/2005	1/12/2005	1/12/2005	1/12/2005	1/12/2005	1/17/2005	1/17/2005	1/17/2005	1/17/2005	1/17/2005	1/17/2005	3/10/2005	1/17/2005	3/10/2005
Sample ID	011205-VMP-81M	010605-VMP81-S	011205-VMP-81S	010605-VMP81-VS	011205-VMP-81VS	011205-VMP-82M	011205-VMP-82S	011205-VMP-82VS	011705-VMP-83D	011705-VMP-83M	011705-VMP-83S	011705-VMP-83VS	011705-VMP-84D	011705-VMP-84M	031005 VMP-84M	011705-VMP-84S	031005 VMP-84S
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method D1946	%	ppmv	%	ppmv	%	%	%	%	%	%	%	%	%	%	%	%	%
CARBON DIOXIDE	14		13		7.8	9.7	9.1	8.6	11	13	13	10	0.045	11	11	5.9	4
METHANE	1.2		1.2		0.49	0.00016 U	0.00016 U	0.00016 U	0.00067	0.00019 U	0.00014 U	0.00014 U	0.0002	0.00014 U	0.00014 U	0.00014 U	0.0004
METHANE	-	9,300	-	430	-	-	-	-	-	-	-	-	-	-	-	-	-
OXYGEN	1.1		0.96		12	6.4	11	11	1.9	4	4	7.1	21	10	10	9.9	12
Analytical Method TO14	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1-BUTENE	27,000	-	39,000	-	25,000	3.2	3.2 U	3.1 U	8.6	8.7	2.8 U	2.8 U	3.0 U	2.9 U	2.9 U	3.8	2.8 U
ACETYLENE	2,100 U	-	2,200 U	-	1,500 U	8.0 U	8.0 U	7.8 U	7.2 U	9.3 U	7.0 U	7.0 U	7.4 U	7.2 U	7.2 U	7.0 U	7.0 U
BUTANE	2,800,000	-	4,000,000	-	2,600,000	9.7	25	22	28	240	7.1	7.8	7.4 U	7.2 U	7.2 U	27	23
CIS-2-BUTENE	150,000	-	220,000	-	160,000	3.2 U	3.2 U	3.1 U	2.9 U	19	2.8 U	2.8 U	3.0 U	2.9 U	2.9 U	2.8 U	2.8 U
ETHANE	24,000	-	34,000	-	16,000	29	8.0 U	7.8 U	51	21	22	20	9.8	8.1	7.2 U	75	43
ETHENE	2,100 U	-	2,200 U	-	1,500 U	15	8.0 U	7.8 U	36	9.3 U	9.3	11	7.4 U	7.2 U	7.2 U	71	43
ISOBUTANE	460,000	-	660,000	-	380,000	3.2	10	9	10	40	3.2	3.5	3.0 U	2.9 U	2.9 U	14	12
PROPANE	9,600	-	21,000	-	6,400	13	8.0 U	7.8 U	34	13	12	12	7.4 U	7.2 U	7.2 U	59	45
PROPYLENE	2,100 U	-	2,200 U	-	1,500 U	9.8	8.0 U	7.8 U	33	9.3 U	7.0 U	7.6	7.4 U	7.2 U	7.2 U	39	22
TRANS-2-BUTENE	180,000	-	260,000	-	180,000	3.2 U	3.2 U	3.1 U	3.1	20	2.8 U	2.8 U	3.0 U	2.9 U	2.9 U	2.8 U	2.8 U
Analytical Method TO15	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1,2,4-TRIMETHYLBENZENE	44,000 U	49,000 U	82,000 U	3,700 U	82,000 U	3.7	0.80 U	0.78 U	1.4	0.88	1.3	0.8	0.74 U	0.72 U	1.1	0.70 U	1.2
1,3,5-TRIMETHYLBENZENE	44,000 U	49,000 U	82,000 U	3,700 U	82,000 U	1.1	0.80 U	0.78 U	0.72 U	0.70 U	0.70 U	0.70 U	0.74 U	0.72 U	0.72 U	0.70 U	0.70 U
1,3-BUTADIENE	44,000 U	49,000 U	82,000 U	3,700 U	82,000 U	0.80 U	0.80 U	0.78 U	0.72 U	0.70 U	0.70 U	0.70 U	0.74 U	0.72 U	0.72 U	0.70 U	0.70 U
BENZENE	510,000	350,000	750,000	3,700 U	850,000	2	1.3	1.5	0.92	1.6	2.4	1.6	0.74 U	0.72 U	0.83	0.70 U	0.94
ETHYL BENZENE	44,000 U	49,000 U	82,000 U	3,700 U	82,000 U	3.6	2	0.92	3.3	2.8	3.9	2.2	0.74 U	0.72 U	1.3	1.8	1.3
HEXANE	2,500,000	2,100,000	3,400,000	200,000	3,600,000	7.5	1.6	4.1	9.8	3.7	5.7	6.4	0.74 U	0.72 U	1.2	16	3.5
ISOPENTANE	11,000,000	9,800,000	17,000,000	860,000	17,000,000	11	2.8	4.3	26	9	10	12	1.1	0.73	2.4	42	20
M,P-XYLENE	59,000	49,000 U	82,000 U	3,700 U	100,000	12	6.3	2.8	10	8.5	11	6.9	0.74 U	1.4	4.3	5.3	3.4
O-XYLENE	44,000 U	49,000 U	82,000 U	3,700 U	82,000 U	3.6	1.8	0.78 U	2.6	1.9	2.5	1.6	0.74 U	0.72 U	1.8	1.4	1.4
TOLUENE	400,000	200,000	730,000	3,700 U	710,000	32	30	17	27	42	57	31	0.74 U	3.9	3.7	18	7.4
Analytical Method TO15 (rerun)	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
BENZENE	-	-	-	990	-	-	-	-	-	-	-	-	-	-	-	-	-
ETHYL BENZENE	-	-	-	520	-	-	-	-	-	-	-	-	-	-	-	-	-
M,P-XYLENE	-	-	-	1,700	-	-	-	-	-	-	-	-	-	-	-	-	-
O-XYLENE	-	-	-	500	-	-	-	-	-	-	-	-	-	-	-	-	-
TOLUENE	-	-	-	2,000	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
%-result is reported as a percent
U-compound was analyzed for but not detected above reporting limit
J-Estimated value
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-4 A
ACTIVD SOIL VAPOR ANALYTICAL RESULTS (ppbv)
VMP-55 through VMP-96
January - March 2005

Hartford Working Group
Hartford, Illinois

Location ID	VMP-84	VMP-84	VMP-85	VMP-85	VMP-85	VMP-85	VMP-86	VMP-86	VMP-86	VMP-86	VMP-88	VMP-88	VMP-89	VMP-89	VMP-89	VMP-90	VMP-90
Port ID	VMP-84VS	VMP-84VS	VMP-85VS	VMP-85S	VMP-85M	VMP-85D	VMP-86VS	VMP-86S	VMP-86M	VMP-86D	VMP-88VS	VMP-88S	VMP-89VS	VMP-89S	VMP-89S	VMp-90VS	VMP-90S
Sample Date	1/17/2005	3/10/2005	1/12/2005	1/12/2005	1/12/2005	1/12/2005	1/13/2005	1/13/2005	1/13/2005	1/13/2005	2/22/2005	2/22/2005	2/22/2005	2/22/2005	2/22/2005	2/22/2005	2/22/2005
Sample ID	011705-VMP-84VS	031005 VMP-84VS	011205-VMP-85VS	011205-VMP-85S	011205-VMP-85M	011205-VMP-85-D	011305-VMP-86VS	011305-VMP-86S	011305-VMP-86M	011305-VMP-86D	022205-VMP-88VS	022205-VMP-88S	022205-VMP-89VS	022205-VMP-89S	022205-VMP-89S DUP	022205-VMP-90VS	022205-VMP-90S
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method D1946	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
CARBON DIOXIDE	2.4	3.3	5	7.2	6.8	8.1	6.4	13	13	0.043	0.093	0.43	0.038	0.34	0.35	1	2.2
METHANE	0.0036	0.0029	0.00016 U	0.00016 U	0.00015 U	0.00016 U	0.00016 U	0.00015 U	0.00014 U	0.0002	0.00018	0.00017	0.00037	0.00064	0.00064	0.84	1.2
METHANE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OXYGEN	18	12	17	11	12	10	15	6.7	7.1	20	21	19	20	17	17	12	8.3
Analytical Method TO14	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1-BUTENE	5.7	3.1 U	4.4	3.3 U	3.0 U	3.2 U	3.1 U	3.0 U	2.9 U	3.4 U	3.0 U	2.9 U	6.5	25	25	2,800	5,400
ACETYLENE	6.4 U	7.8 U	8.2 U	8.2 U	7.6 U	8.0 U	7.8 U	7.6 U	7.2 U	8.6 U	7.4 U	7.3 U	24	18	18	360 U	600 U
BUTANE	47	53	8.2 U	8.2 U	7.6 U	8.0 U	7.8 U	7.6 U	7.2 U	8.6 U	450	110	87	120	110	550,000	810,000
CIS-2-BUTENE	2.6 U	3.1 U	3.3 U	3.3 U	3.0 U	3.2 U	3.1 U	3.0 U	2.9 U	3.4 U	5.6	2.9 U	3.8	12	12	12,000	23,000
ETHANE	140	190	24	12	7.6 U	8.0 U	15	7.6 U	7.2 U	8.6 U	19	56	93	250	240	8,700	12,000
ETHENE	98	77	14	9.2	7.6 U	8.0 U	8.3	7.6 U	7.2 U	8.6 U	12	34	46	170	170	1,000	1,800
ISOBUTANE	30	34	3.3 U	3.3 U	3.0 U	3.2 U	3.1 U	3.0 U	2.9 U	3.4 U	36	16	17	30	31	140,000	200,000
PROPANE	110	240	14	8.2 U	7.6 U	8.0 U	8.8	7.6 U	7.2 U	8.6 U	11	29	33	82	80	10,000	14,000
PROPYLENE	53	38	17	8.2 U	7.6 U	8.0 U	10	7.6 U	7.2 U	8.6 U	7.4 U	7.3 U	26	88	86	380	600 U
TRANS-2-BUTENE	2.6 U	3.1 U	3.3 U	3.3 U	3.0 U	3.2 U	3.1 U	3.0 U	2.9 U	3.4 U	8.6	2.9 U	4.2	12	12	19,000	36,000
Analytical Method TO15	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1,2,4-TRIMETHYLBENZENE	0.76	0.8	0.82 U	1.7	0.89	0.80 U	0.78 U	0.87	0.72 U	0.86 U	0.74 U	0.73 U	2,000	43,000	38,000	3,000 U	13,000
1,3,5-TRIMETHYLBENZENE	0.64 U	0.78 U	0.82 U	0.82 U	0.76 U	0.80 U	0.78 U	0.76 U	0.72 U	0.86 U	0.74 U	0.73 U	1,500	24,000	22,000	3,000 U	5,400
1,3-BUTADIENE	0.64 U	0.78 U	0.82 U	0.82 U	0.76 U	0.80 U	0.78 U	0.76 U	0.72 U	0.86 U	0.74 U	0.73 U	5.8 U	180 U	180 U	3,000 U	5,000 U
BENZENE	0.82	0.78 U	3.3	4.1	1.9	2.4	1.6	0.76 U	0.72 U	0.86 U	1.1	0.73 U	5.8 U	180 U	180 U	4,500	48,000
ETHYL BENZENE	1.4	0.78 U	2	3.6	2.1	0.80 U	1.3	2.1	1	0.86 U	1.4	0.73 U	160	560	560	3,000 U	25,000
HEXANE	22	0.78 U	8.8	9.7	4.7	5.1	1.6	1.8	1.2	0.86 U	2.5	0.75	14	180 U	180 U	45,000	85,000
ISOPENTANE	66	42	12	12	13	7.8	2.5	3.7	2	1.3	21	15	33	460	360	740,000	1,100,000
M,P-XYLENE	4.3	2	5.6	11	7	1.1	4.1	6.5	2.9	0.86 U	4.2	1.5	2,700	88,000	91,000	4,400	83,000
O-XYLENE	1.1	0.78	1.4	2.9	1.7	0.80 U	1.2	2.1	0.88	0.86 U	1	0.73 U	1,900	68,000	69,000	3,000 U	25,000
TOLUENE	12	1.8	32	39	22	4.7	24	22	8.6	0.86 U	11	2.6	60	180 U	180 U	3,000 U	36,000
Analytical Method TO15 (rerun)	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
BENZENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ETHYL BENZENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M,P-XYLENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
O-XYLENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOLUENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
%-result is reported as a percent
U-compound was analyzed for but not detected above reporting limit
J-Estimated value
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-4 A
ACTIVD SOIL VAPOR ANALYTICAL RESULTS (ppbv)
VMP-55 through VMP-96
January - March 2005

Hartford Working Group
Hartford, Illinois

Location ID	VMP-91	VMP-92	VMP-92	VMP-93	VMP-93	VMP-94	VMP-94	VMP-96
Port ID	VMP-91S	VMP-92VS	VMP-92S	VMP-93VS	VMP-93S	VMp-94VS	VMP-94S	VMP-96
Sample Date	2/22/2005	2/22/2005	2/22/2005	2/22/2005	2/22/2005	2/22/2005	2/22/2005	1/31/2005
Sample ID	022205-VMP-91S	022205-VMP-92VS	022205-VMP-92S	022205-VMP-93VS	022205-VMP-93S	022205-VMP-94VS	022205-VMP-94S	013105-VMP96-BORING
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method D1946	%	%	%	%	%	%	%	%
CARBON DIOXIDE	0.079	0.049	0.13	0.03	0.044	2.5	11	2.7
METHANE	0.00015	0.098	0.18	0.00025	0.00023	3.2	19	61
METHANE	-	-	-	-	-	-	-	-
OXYGEN	21	16	16	21	21	16.0	4.6	0.9
Analytical Method TO14	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1-BUTENE	2.7 U	860	100	2.9 U	3.0 U	100,000	680,000	890,000
ACETYLENE	6.7 U	52	12 U	7.3 U	7.4 U	2,600 U	21,000 U	43,000 U
BUTANE	19	28,000	7,300	51	27	3,900,000	30,000,000	63,000,000
CIS-2-BUTENE	2.7 U	1,000	110	2.9 U	3.0 U	230,000	1,300,000	2,000,000
ETHANE	18	1,400	2,400	11	15	93,000	740,000	740,000
ETHENE	14	100	66	7.3 U	11	24,000	180,000	43,000 U
ISOBUTANE	7	12,000	22,000	18	7.2	1,400,000	12,000,000	21,000,000
PROPANE	12	1,700	1,600	8	10	260,000	2,100,000	1,500,000
PROPYLENE	7.7	50	12 U	7.3 U	7.4 U	5,300	40,000	43,000 U
TRANS-2-BUTENE	2.7 U	1,400	130	3	3.0 U	280,000	1,800,000	3,100,000
Analytical Method TO15	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1,2,4-TRIMETHYLBENZENE	1.7	49 U	14 U	0.73 U	0.74 U	15,000 U	120,000 U	180,000 U
1,3,5-TRIMETHYLBENZENE	0.67 U	49 U	14 U	0.73 U	0.74 U	15,000 U	120,000 U	180,000 U
1,3-BUTADIENE	0.67 U	49 U	14 U	0.73 U	0.74 U	15,000 U	120,000 U	180,000 U
BENZENE	2	49 U	14 U	1.2	1.3	15,000 U	120,000 U	180,000 U
ETHYL BENZENE	3.2	49 U	14 U	1.3	1.7	15,000 U	120,000 U	180,000 U
HEXANE	3.2	130	39	3.4	5.8	340,000	2,000,000	3,500,000
ISOPENTANE	9.2	11,000	4,800	8.4	15	2,500,000	23,000,000	62,000,000
M,P-XYLENE	7.1	49 U	14 U	3.4	5	21,000	120,000 U	180,000 U
O-XYLENE	2.2	49 U	14 U	0.82	1.1	15,000 U	120,000 U	180,000 U
TOLUENE	18	49 U	14 U	12	14	15,000 U	120,000 U	180,000 U
Analytical Method TO15 (rerun)	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
BENZENE	-	-	-	-	-	2,900	88,000	-
ETHYL BENZENE	-	-	-	-	-	2,000	11,000	-
M,P-XYLENE	-	-	-	-	-	4,100	18,000	-
O-XYLENE	-	-	-	-	-	750	3,700	-
TOLUENE	-	-	-	-	-	2,700	56,000	-

Notes:
%-result is reported as a percent
U-compound was analyzed for but not detected above reporting limit
J-Estimated value
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-4 B
ACTIVE SOIL VAPOR ANALYTICAL RESULTS (ug/m3)
VMP-55 through VMP-96
January - March 2005

Hartford Working Group
Hartford, Illinois

Location ID	VMP-55	VMP-55	VMP-55	VMP-56	VMP-56	VMP-57	VMP-57	VMP-58	VMP-58	VMP-61	VMP-61	VMP-61	VMP-61	VMP-64	VMP-64	VMP-65	VMP-65
Port ID	VMP-55S	VMP-55S	VMP-55VS	VMP-56S	VMP-56VS	VMP-57S	VMP-57VS	VMP-58S	VMP-58VS	VMP-61D	VMP-61M	VMP-61S	VMP-61VS	VMP-64S	VMP-64VS	VMP-65M	VMP-65S
Sample Date	1/18/2005	1/18/2005	1/18/2005	1/19/2005	1/19/2005	2/22/2005	2/22/2005	1/19/2005	1/19/2005	1/18/2005	1/18/2005	1/18/2005	1/18/2005	1/19/2005	1/19/2005	1/19/2005	1/19/2005
Sample ID	011805-VMP-55S	011805-VMP-55S-Dupe	011805-VMP-55VS	011905-VMP-56S	011905-VMP-56VS	022205-VMP-57S	022205-VMP-57VS	011905-VMP-58S	011905-VMP-58VS	011805-VMP-61D	011805-VMP-61M	011805-VMP-61S	011805-VMP-61VS	011905-VMP-64S	011905-VMP-64VS	011905-VMP-65M	011905-VMP-65S
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method TO14	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1-BUTENE	14,000	14,000	4,800	460	650	3,500	1,400	1,200 U	820 U	7.1 U	6.5 U	6.4 U	6.9	46,000	41,000	2,600,000	2,600,000
ACETYLENE	8,200 U	7,000 U	2,800 U	170 U	600 U	610 U	340 U	1,400 U	950 U	8.2 U	7.5 U	7.4 U	7.4 U	820 U	700 U	34,000 U	35,000 U
BUTANE	28,000,000	27,000,000	10,000,000	660,000	500,000	2,000,000	1,100,000	230,000	310,000	18 U	17 U	21	27	2,800,000	2,500,000	120,000,000	120,000,000
CIS-2-BUTENE	36,000	35,000	12,000	680	520 U	20,000	7,000	1,200 U	820 U	7.1 U	6.5 U	6.4 U	6.4 U	120,000	110,000	6,300,000	6,100,000
ETHANE	12,000	11,000	3,300	4,200	48,000	4,600	3,100	74,000	54,000	10	15	31	42	3,600	3,300	470,000	480,000
ETHENE	8,800 U	7,600 U	3,100 U	1,100	920	2,000	1,100	1,500 U	1,000 U	8.9 U	8.1 U	30	30	890 U	760 U	54,000	55,000
ISOBUTANE	3,000,000	2,900,000	1,100,000	210,000	2,800,000	180,000	110,000	4,500,000	3,200,000	7.4 U	6.7 U	9.5	17	640,000	580,000	36,000,000	36,000,000
PROPANE	26,000	25,000	9,200	710	4,200	8,200	5,300	13,000	10,000	14 U	13 U	24	27	24,000	21,000	2,300,000	2,300,000
PROPYLENE	13,000 U	11,000 U	4,600 U	1,000	970 U	1,700	910	2,300 U	1,500 U	13 U	12 U	22	27	1,300 U	1,100 U	55,000 U	57,000 U
TRANS-2-BUTENE	76,000	75,000	24,000	1,200	820	31,000	11,000	1,200 U	940	7.1 U	6.5 U	6.4 U	6.4 U	160,000	140,000	8,100,000	8,000,000
Analytical Method TO15	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1,2,4-TRIMETHYLBENZENE	340,000 U	280,000 U	110,000 U	24,000 U	86,000 U	28,000 U	16,000 U	110,000 U	55,000 U	3.8 U	3.5 U	3.4 U	5.2	32,000 U	32,000 U	660,000 U	650,000 U
1,3,5-TRIMETHYLBENZENE	340,000 U	280,000 U	110,000 U	24,000 U	86,000 U	28,000 U	16,000 U	110,000 U	55,000 U	3.8 U	3.5 U	3.4 U	3.4 U	32,000 U	32,000 U	660,000 U	650,000 U
1,3-BUTADIENE	150,000 U	130,000 U	49,000 U	11,000 U	39,000 U	13,000 U	7,100 U	49,000 U	25,000 U	1.7 U	1.6 U	1.5 U	1.5 U	15,000 U	15,000 U	300,000 U	290,000 U
BENZENE	220,000 U	180,000 U	71,000 U	15,000 U	56,000 U	120,000	10,000 U	70,000 U	36,000 U	3.5	2.2 U	2.2	2.3	62,000	80,000	2,200,000	1,100,000
ETHYL BENZENE	300,000 U	250,000 U	97,000 U	21,000 U	76,000 U	25,000 U	14,000 U	96,000 U	48,000 U	3.4 U	3.1 U	3.0 U	14	29,000 U	56,000	580,000 U	570,000 U
HEXANE	4,900,000	5,200,000	2,600,000	64,000	62,000 U	290,000	120,000	250,000	320,000	2.7 U	3.3	2.5	8	1,400,000	1,300,000	6,400,000	5,400,000
ISOPENTANE	47,000,000	55,000,000	17,000,000	3,600,000	14,000,000	4,500,000	2,200,000	11,000,000	6,400,000	7.5	8.8	26	27	5,500,000	4,800,000	96,000,000	81,000,000
M,P-XYLENE	300,000 U	250,000 U	97,000 U	21,000 U	76,000 U	25,000 U	14,000 U	96,000 U	48,000 U	3.4 U	8.4	4.7	44	120,000	180,000	580,000 U	570,000 U
O-XYLENE	300,000 U	250,000 U	97,000 U	21,000 U	76,000 U	25,000 U	14,000 U	96,000 U	48,000 U	3.4 U	3.1 U	3.0 U	8.8	47,000	53,000	580,000 U	570,000 U
TOLUENE	350,000	400,000	180,000	18,000 U	66,000 U	22,000 U	12,000 U	83,000 U	42,000 U	5.2	9.7	5.7	62	140,000	260,000	970,000	780,000
Analytical Method TO15 (rerun)	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
BENZENE	-	-	-	11,000	1,900	-	4,100	35,000	18,000	-	-	-	-	-	-	-	-
ETHYL BENZENE	-	-	-	460	310 U	-	450	68,000	23,000	-	-	-	-	-	-	-	-
M,P-XYLENE	-	-	-	560	310 U	-	460	94,000	32,000	-	-	-	-	-	-	-	-
O-XYLENE	-	-	-	310 U	310 U	-	56	3,000	2,900 U	-	-	-	-	-	-	-	-
TOLUENE	-	-	-	930	260 U	-	89	5,200	2,500 U	-	-	-	-	-	-	-	-

Notes:
%-result is reported as a percent
U-compound was analyzed for but not detected above reporting limit
J-Estimated value
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-4 B
ACTIVE SOIL VAPOR ANALYTICAL RESULTS (ug/m3)
VMP-55 through VMP-96
January - March 2005

Hartford Working Group
Hartford, Illinois

Location ID	VMP-65	VMP-66	VMP-66	VMP-66	VMP-67	VMP-67	VMP-67	VMP-67	VMP-67	VMP-68	VMP-68	VMP-68	VMP-68	VMP-68	VMP-68	VMP-68	VMP-68
Port ID	VMP-65VS	VMP-66M	VMP-66S	VMP-66VS	VMP-67D	VMP-67M	VMP-67S	VMP-67VS	VMP-67VS	VMP-68D	VMP-68D	VMP-68M	VMP-68M	VMP-68S	VMP-68S	VMP-68VS	VMP-68VS
Sample Date	1/19/2005	1/17/2005	1/17/2005	1/17/2005	1/17/2005	1/17/2005	1/17/2005	1/17/2005	1/17/2005	1/10/2005	1/19/2005	1/10/2005	1/19/2005	1/10/2005	1/19/2005	1/10/2005	1/19/2005
Sample ID	011905-VMP-65VS	011705-VMP-66M	011705-VMP-66S	011705-VMP-66VS	011705-VMP-67D	011705-VMP-67M	011705-VMP-67S	011705-VMP-67VS-Dup	011705-VMP-67-VS	011005-VMP-68D	011905-VMP-68D	011005-VMP-68M	011905-VMP-68M	011005-VMP-68S	011905-VMP-68S	011005-VMP-68VS	011905-VMP-68VS
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method TO14	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1-BUTENE	2,400,000	9.9 U	6.8 U	12	5,700,000	4,500,000	4,100,000	4,300,000	4,500,000	14,000,000	16,000,000	16,000,000	17,000,000	17,000,000	15,000,000	17,000,000	16,000,000
ACETYLENE	32,000 U	12 U	7.9 U	7.5 U	38,000 U	31,000 U	31,000 U	30,000 U	30,000 U	56,000 U	63,000 U	66,000 U	69,000 U	69,000 U	63,000 U	75,000 U	73,000 U
BUTANE	110,000,000	26 U	74	94	150,000,000	120,000,000	110,000,000	120,000,000	120,000,000	240,000,000	280,000,000	290,000,000	300,000,000	300,000,000	260,000,000	300,000,000	280,000,000
CIS-2-BUTENE	5,900,000	9.9 U	7.8	9	11,000,000	9,100,000	8,300,000	9,000,000	9,300,000	20,000,000	23,000,000	24,000,000	25,000,000	26,000,000	22,000,000	26,000,000	24,000,000
ETHANE	420,000	13 U	9.2 U	56	320,000	260,000	240,000	170,000	170,000	1,300,000	1,200,000	1,600,000	1,300,000	1,700,000	1,200,000	1,600,000	1,200,000
ETHENE	46,000	12 U	8.5 U	46	640,000	400,000	360,000	260,000	270,000	520,000	550,000	630,000	590,000	670,000	530,000	660,000	570,000
ISOBUTANE	32,000,000	10 U	10	21	34,000,000	27,000,000	24,000,000	24,000,000	25,000,000	82,000,000	95,000,000	98,000,000	100,000,000	100,000,000	90,000,000	100,000,000	97,000,000
PROPANE	2,100,000	19 U	13 U	56	1,800,000	1,400,000	1,300,000	1,000,000	1,100,000	7,400,000	8,400,000	9,000,000	9,100,000	9,500,000	8,200,000	9,300,000	8,600,000
PROPYLENE	51,000 U	18 U	13 U	52	75,000	62,000	56,000	49,000 U	49,000 U	270,000	290,000	310,000	320,000	330,000	280,000	320,000	300,000
TRANS-2-BUTENE	7,600,000	9.9 U	8.5	9.6	13,000,000	11,000,000	9,800,000	10,000,000	11,000,000	26,000,000	29,000,000	30,000,000	31,000,000	32,000,000	28,000,000	32,000,000	30,000,000
Analytical Method TO15	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1,2,4-TRIMETHYLBENZENE	1,600,000 U	4.0 U	3.7 U	4.5	610,000 U	590,000 U	7,100 U	560,000 U	560,000 U	780,000 U	1,200,000 U	760,000 U	720,000 U	790,000 U	730,000 U	480,000 U	370,000 U
1,3,5-TRIMETHYLBENZENE	1,600,000 U	4.0 U	3.7 U	3.5 U	610,000 U	590,000 U	7,100 U	560,000 U	560,000 U	780,000 U	1,200,000 U	760,000 U	720,000 U	790,000 U	730,000 U	480,000 U	370,000 U
1,3-BUTADIENE	740,000 U	1.8 U	1.6 U	1.6 U	270,000 U	260,000 U	3,200 U	250,000 U	250,000 U	350,000 U	550,000 U	340,000 U	320,000 U	360,000 U	330,000 U	210,000 U	170,000 U
BENZENE	1,900,000	8	13	15	1,600,000	1,800,000	36,000	1,900,000	2,900,000	2,500,000	2,900,000	2,600,000	1,500,000	2,800,000	1,600,000	1,300,000	1,100,000
ETHYL BENZENE	1,400,000 U	3.5 U	3.2 U	3.1 U	540,000 U	520,000 U	6,200 U	490,000 U	490,000 U	690,000 U	1,100,000 U	670,000 U	630,000 U	700,000 U	650,000 U	420,000 U	330,000 U
HEXANE	10,000,000	7.3	19	36	4,000,000	4,700,000	84,000	4,700,000	7,400,000	5,800,000	6,200,000	6,000,000	4,100,000	7,000,000	4,100,000	3,100,000	2,500,000
ISOPENTANE	220,000,000	19	100	120	88,000,000	85,000,000	1,300,000	84,000,000	78,000,000	140,000,000	160,000,000	160,000,000	97,000,000	170,000,000	98,000,000	76,000,000	64,000,000
M,P-XYLENE	1,400,000 U	5.5	3.3	3.8	540,000 U	520,000 U	6,200 U	490,000 U	490,000 U	690,000 U	1,100,000 U	670,000 U	630,000 U	700,000 U	650,000 U	420,000 U	330,000 U
O-XYLENE	1,400,000 U	3.5 U	3.2 U	3.1 U	540,000 U	520,000 U	6,200 U	490,000 U	490,000 U	690,000 U	1,100,000 U	670,000 U	630,000 U	700,000 U	650,000 U	420,000 U	330,000 U
TOLUENE	2,500,000	11	13	14	500,000	500,000	22,000	820,000	3,000,000	1,200,000	940,000 U	1,100,000	550,000 U	1,500,000	560,000 U	630,000	420,000
Analytical Method TO15 (rerun)	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
BENZENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ETHYL BENZENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M,P-XYLENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
O-XYLENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOLUENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
%-result is reported as a percent
U-compound was analyzed for but not detected above reporting limit
J-Estimated value
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-4 B
ACTIVE SOIL VAPOR ANALYTICAL RESULTS (ug/m3)
VMP-55 through VMP-96
January - March 2005

Hartford Working Group
Hartford, Illinois

Location ID	VMP-69	VMP-69	VMP-69	VMP-69	VMP-69	VMP-69	VMP-70	VMP-70	VMP-70	VMP-70	VMP-71	VMP-71	VMP-71	VMP-71	VMP-72	VMP-72	VMP-72
Port ID	VMP-69D	VMP-69D	VMP-69M	VMP-69M	VMP-69VS	VMP-69VS	VMP-70M	VMP-70S	VMP-70S	VMP-70VS	VMP-71S	VMP-71S	VMP-71VS	VMP-71VS	VMP-72D	VMP-72M	VMP-72S
Sample Date	1/10/2005	1/19/2005	1/10/2005	1/19/2005	1/10/2005	1/19/2005	1/10/2005	1/6/2005	1/10/2005	1/6/2005	1/6/2005	1/10/2005	1/6/2005	1/10/2005	1/11/2005	1/11/2005	1/11/2005
Sample ID	011005-VMP-69D	011905-VMP-69D	011005-VMP-69M	011905-VMP-69M	011005-VMP-69VS	011905-VMP-69VS	011005-VMP-70M	010605-VMP70-S	011005-VMP-70S	010605-VMP70-VS	010605-VMP71-S	011005-VMP-71S	010605-VMP71-VS	011005-VMP-71VS	011105-VMP72D	011105-VMP72M	011105-VMP72S
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method TO14	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1-BUTENE	8,300,000	6,400,000	7,800,000	6,000,000	2,000,000	3,000,000	910,000	-	66	-	-	540,000	-	1,700,000	8.0 U	7.1 U	7.1 U
ACETYLENE	42,000 U	42,000 U	43,000 U	33,000 U	18,000 U	19,000 U	24,000 U	-	15 U	-	-	28,000 U	-	31,000 U	9.3 U	8.2 U	8.2 U
BUTANE	170,000,000	130,000,000	160,000,000	120,000,000	48,000,000	73,000,000	52,000,000	-	3,100	-	-	37,000,000	-	120,000,000	110	21	120
CIS-2-BUTENE	15,000,000	12,000,000	14,000,000	11,000,000	3,400,000	5,000,000	2,000,000	-	140	-	-	1,100,000	-	3,800,000	8.0 U	7.1 U	7.1 U
ETHANE	260,000	210,000	250,000	190,000	95,000	140,000	270,000	-	39	-	-	420,000	-	1,300,000	11 U	9.5 U	9.5 U
ETHENE	130,000	110,000	120,000	93,000	35,000	48,000	34,000	-	16 U	-	-	46,000	-	140,000	10 U	8.9 U	8.9 U
ISOBUTANE	42,000,000	34,000,000	41,000,000	31,000,000	13,000,000	19,000,000	16,000,000	-	920	-	-	16,000,000	-	50,000,000	44	7.4 U	43
PROPANE	1,600,000	1,300,000	1,500,000	1,200,000	510,000	750,000	1,500,000	-	93	-	-	1,800,000	-	5,400,000	16 U	14 U	14 U
PROPYLENE	68,000 U	68,000 U	69,000 U	53,000 U	29,000 U	30,000 U	38,000 U	-	24 U	-	-	46,000 U	-	70,000	15 U	13 U	13 U
TRANS-2-BUTENE	19,000,000	14,000,000	18,000,000	14,000,000	4,400,000	6,500,000	2,600,000	-	170	-	-	1,500,000	-	5,100,000	8.0 U	7.1 U	7.1 U
Analytical Method TO15	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1,2,4-TRIMETHYLBENZENE	450,000 U	970,000 U	400,000 U	950,000 U	110,000 U	590,000 U	380,000 U	3.5 U	39 U	17,000 U	610,000 U	530,000 U	620,000 U	470,000 U	4.3 U	3.8 U	8.6
1,3,5-TRIMETHYLBENZENE	450,000 U	970,000 U	400,000 U	950,000 U	110,000 U	590,000 U	380,000 U	3.5 U	39 U	17,000 U	610,000 U	530,000 U	620,000 U	470,000 U	4.3 U	3.8 U	3.8 U
1,3-BUTADIENE	200,000 U	440,000 U	180,000 U	430,000 U	48,000 U	260,000 U	170,000 U	1.6 U	17 U	7,800 U	280,000 U	240,000 U	280,000 U	210,000 U	1.9 U	1.7 U	1.7 U
BENZENE	1,300,000	2,600,000	1,200,000	2,000,000	69,000 U	380,000 U	1,100,000	2.3 U	120	28,000	2,600,000	2,400,000	1,800,000	2,100,000	2.8 U	2.5 U	6.1
ETHYL BENZENE	400,000 U	860,000 U	350,000 U	840,000 U	94,000 U	520,000 U	340,000 U	3.1 U	34 U	15,000 U	540,000 U	470,000 U	550,000 U	420,000 U	3.8 U	4.7	17
HEXANE	3,600,000	6,800,000	3,500,000	5,800,000	1,200,000	3,100,000	6,500,000	2.5 U	1,200	370,000	7,300,000	7,000,000	5,600,000	7,800,000	3.1 U	4.2	9
ISOPENTANE	68,000,000	130,000,000	62,000,000	110,000,000	20,000,000	62,000,000	92,000,000	7.8	4,000	2,300,000	110,000,000	93,000,000	88,000,000	90,000,000	2.7	7.8	9.2
M,P-XYLENE	400,000 U	860,000 U	350,000 U	840,000 U	94,000 U	520,000 U	340,000 U	3.1 U	34 U	26,000	540,000 U	470,000 U	550,000 U	420,000 U	3.8 U	15	52
O-XYLENE	400,000 U	860,000 U	350,000 U	840,000 U	94,000 U	520,000 U	340,000 U	3.1 U	34 U	15,000 U	540,000 U	470,000 U	550,000 U	420,000 U	3.8 U	4.8	13
TOLUENE	680,000	1,100,000	720,000	910,000	82,000 U	450,000 U	1,400,000	2.7 U	91	64,000	550,000	1,400,000	1,000,000	1,600,000	3.3 U	25	190
Analytical Method TO15 (rerun)	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
BENZENE	-	-	-	-	32,000	24,000	-	-	-	-	-	-	-	-	-	-	-
ETHYL BENZENE	-	-	-	-	64,000	14,000 U	-	-	-	-	-	-	-	-	-	-	-
M,P-XYLENE	-	-	-	-	240,000	44,000	-	-	-	-	-	-	-	-	-	-	-
O-XYLENE	-	-	-	-	68,000	30,000	-	-	-	-	-	-	-	-	-	-	-
TOLUENE	-	-	-	-	63,000	21,000	-	-	-	-	-	-	-	-	-	-	-

Notes:
%-result is reported as a percent
U-compound was analyzed for but not detected above reporting limit
J-Estimated value
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-4 B
ACTIVE SOIL VAPOR ANALYTICAL RESULTS (ug/m3)
VMP-55 through VMP-96
January - March 2005

Hartford Working Group
Hartford, Illinois

Location ID	VMP-72	VMP-72	VMP-73	VMP-73	VMP-73	VMP-73	VMP-73	VMP-73	VMP-73	VMP-73	VMP-73	VMP-74	VMP-74	VMP-74	VMP-75	VMP-75
Port ID	VMP-72VS	VMP-72VS	VMP-73D	VMP-73D	VMP-73M	VMP-73M	VMP-73S	VMP-73S	VMP-73S	VMP-73VS	VMP-73VS	VMP-74D	VMP-74M	VMP-74VS	VMP-75D	VMP-75S
Sample Date	1/11/2005	1/11/2005	1/17/2005	1/19/2005	1/17/2005	1/19/2005	1/17/2005	1/19/2005	1/19/2005	1/17/2005	1/19/2005	1/10/2005	1/10/2005	1/10/2005	1/10/2005	1/10/2005
Sample ID	011105-VMP72VS DUP	011105-VMP72VS	011705-VMP-73D	011905-VMP-73D	011705-VMP-73M	011905-VMP-73M	011705-VMP-73S	011905-VMP-73S	011905-VMP-73S-DUP	011705-VMP-73VS	011905-VMP-73VS	011005-VMP-74D	011005-VMP-74M	011005-VMP-74VS	011005-VMP-75D	011005-VMP-75S
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method TO14	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1-BUTENE	6.7 U	6.8 U	1,500,000	840,000	1,300,000	300,000	1,100,000	14,000	14,000	800,000	8,600	140,000	220,000	620	6,200,000	2,900,000
ACETYLENE	7.8 U	7.9 U	19,000 U	12,000 U	17,000 U	4,200 U	15,000 U	140 U	160 U	12,000 U	100 U	1,400 U	2,600 U	34 U	65,000 U	46,000 U
BUTANE	28	62	85,000,000	47,000,000	76,000,000	17,000,000	64,000,000	660,000	680,000	48,000,000	460,000	5,500,000	8,500,000	34,000	240,000,000	190,000,000
CIS-2-BUTENE	6.7 U	6.8 U	4,200,000	2,600,000	3,800,000	940,000	3,000,000	71,000	73,000	2,300,000	43,000	340,000	540,000	1,200	12,000,000	5,900,000
ETHANE	17	17	150,000	88,000	130,000	39,000	100,000	250	240	82,000	130	35,000	54,000	200	720,000	740,000
ETHENE	18	17	210,000	120,000	180,000	46,000	120,000	390	410	88,000	210	22,000	33,000	86	330,000	150,000
ISOBUTANE	8.3	21	19,000,000	10,000,000	17,000,000	3,700,000	15,000,000	87,000	88,000	11,000,000	62,000	1,200,000	1,900,000	7,300	96,000,000	80,000,000
PROPANE	21	22	1,000,000	540,000	910,000	210,000	730,000	2,400	2,300	540,000	1,500	95,000	140,000	440	7,700,000	6,500,000
PROPYLENE	15	15	31,000 U	20,000 U	27,000 U	6,800 U	24,000 U	230 U	250 U	19,000 U	170 U	2,200 U	4,200 U	54 U	180,000	96,000
TRANS-2-BUTENE	6.7 U	6.8 U	5,000,000	2,900,000	4,400,000	1,100,000	3,600,000	66,000	68,000	2,700,000	41,000	410,000	630,000	1,700	15,000,000	8,200,000
Analytical Method TO15	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1,2,4-TRIMETHYLBENZENE	3.6 U	3.7 U	710,000 U	370,000 U	690,000 U	190,000 U	690,000 U	25,000 U	28,000 U	690,000 U	46,000 U	72,000 U	180,000 U	16,000 U	500,000 U	760,000 U
1,3,5-TRIMETHYLBENZENE	3.6 U	3.7 U	710,000 U	370,000 U	690,000 U	190,000 U	690,000 U	25,000 U	28,000 U	690,000 U	46,000 U	72,000 U	180,000 U	16,000 U	500,000 U	760,000 U
1,3-BUTADIENE	1.6 U	1.6 U	320,000 U	160,000 U	310,000 U	87,000 U	310,000 U	11,000 U	12,000 U	310,000 U	20,000 U	32,000 U	81,000 U	7,000 U	220,000 U	340,000 U
BENZENE	5.8	6	2,900,000	2,200,000	3,200,000	2,600,000	2,700,000	1,600,000	1,500,000	3,800,000	3,100,000	390,000	790,000	32,000	2,500,000	2,400,000
ETHYL BENZENE	6.4	6.4	620,000 U	320,000 U	610,000 U	170,000 U	610,000 U	22,000 U	24,000 U	610,000 U	40,000 U	63,000 U	160,000 U	14,000 U	440,000 U	670,000 U
HEXANE	25	27	6,500,000	5,400,000	7,100,000	7,600,000	6,700,000	5,600,000	5,200,000	12,000,000	8,300,000	1,100,000	2,000,000	120,000	6,500,000	7,200,000
ISOPENTANE	30	33	110,000,000	51,000,000	100,000,000	25,000,000	100,000,000	1,800,000	1,800,000	140,000,000	1,900,000	12,000,000	22,000,000	1,600,000	120,000,000	100,000,000
M,P-XYLENE	18	19	620,000 U	320,000 U	610,000 U	170,000 U	610,000 U	34,000	30,000	610,000 U	40,000 U	63,000 U	160,000 U	14,000 U	440,000 U	670,000 U
O-XYLENE	4.8	4.7	620,000 U	320,000 U	610,000 U	170,000 U	610,000 U	22,000 U	24,000 U	610,000 U	40,000 U	63,000 U	160,000 U	14,000 U	440,000 U	670,000 U
TOLUENE	110	110	540,000 U	670,000	620,000	1,200,000	530,000 U	980,000	890,000	640,000	1,400,000	110,000	220,000	22,000	740,000	930,000
Analytical Method TO15 (rerun)	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
BENZENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ETHYL BENZENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M,P-XYLENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
O-XYLENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOLUENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
%-result is reported as a percent
U-compound was analyzed for but not detected above reporting limit
J-Estimated value
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-4 B
ACTIVE SOIL VAPOR ANALYTICAL RESULTS (ug/m3)
VMP-55 through VMP-96
January - March 2005

Hartford Working Group
Hartford, Illinois

Location ID	VMP-75	VMP-76	VMP-76	VMP-76	VMP-77	VMP-77	VMP-77	VMP-78	VMP-78	VMP-78	VMP-78	VMP-78	VMP-78	VMP-78	VMP-78	VMP-78	VMP-79
Port ID	VMP-75VS	VMP-76M	VMP-76S	VMP-76VS	VMP-77D	VMP-77S	VMP-77VS	VMP-78D	VMP-78M	VMP-78M	VMP-78M	VMP-78S	VMP-78S	VMP-78VS	VMP-78VS	VMP-7D	VMP-79D
Sample Date	1/10/2005	1/10/2005	1/10/2005	1/10/2005	1/18/2005	1/18/2005	1/18/2005	1/11/2005	1/11/2005	3/23/2005	3/23/2005	1/11/2005	3/23/2005	1/11/2005	3/23/2005	3/23/2005	1/17/2005
Sample ID	011005-VMP-75VS	011005-VMP-76M	011005-VMP-76S	011005-VMP-76VS	011805-VMP-77D	011805-VMP-77S	011805-VMP-77VS	011105-VMP-78D	011105-VMP-78M	032305-VMP-78 M	032305-VMP-78 M Dup	011105-VMP-78S	032305-VMP-78 S	011105-VMP-78VS	032305-VMP-78 VS	032305-VMP-78 D	011705-VMP-79D
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method TO14	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1-BUTENE	3,000,000	7,400,000	2,300,000	1,300,000	380,000	340,000	180,000	9,500	7,600	7.0 U	7.4 U	7,900	7.0 U	5,800	7.4 U	1,700	6.5 U
ACETYLENE	47,000 U	65,000 U	47,000 U	34,000 U	5,800 U	5,500 U	3,100 U	290 U	250 U	8.1 U	8.6 U	260 U	8.1 U	190 U	8.6 U	59 U	7.5 U
BUTANE	220,000,000	280,000,000	190,000,000	150,000,000	24,000,000	21,000,000	13,000,000	1,300,000	1,100,000	150	150	1,200,000	18 U	850,000	99	280,000	17 U
CIS-2-BUTENE	6,900,000	14,000,000	4,300,000	2,400,000	1,400,000	1,300,000	670,000	54,000	44,000	7.0 U	7.4 U	45,000	7.0 U	34,000	7.4 U	14,000	6.5 U
ETHANE	760,000	1,900,000	1,300,000	1,100,000	35,000	30,000	17,000	15,000	11,000	36	34	11,000	37	7,400	140	2,300	8.7 U
ETHENE	68,000	1,000,000	310,000	150,000	8,100	6,700	3,400	750	610	23	22	640	17	480	53	1,200	8.1 U
ISOBUTANE	85,000,000	110,000,000	79,000,000	63,000,000	4,800,000	4,400,000	2,700,000	230,000	200,000	44	45	210,000	7.6	150,000	32	27,000	6.7 U
PROPANE	6,000,000	14,000,000	8,900,000	7,000,000	120,000	110,000	64,000	5,800	4,700	14 U	14 U	4,700	14 U	3,300	43	300	13 U
PROPYLENE	76,000 U	280,000	80,000	56,000 U	9,300 U	8,900 U	5,000 U	470 U	400 U	13	14 U	420 U	13 U	300 U	35	440	12 U
TRANS-2-BUTENE	8,900,000	18,000,000	5,700,000	3,200,000	1,600,000	1,500,000	790,000	65,000	53,000	7.0 U	7.4 U	55,000	7.0 U	41,000	9	15,000	6.5 U
Analytical Method TO15	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1,2,4-TRIMETHYLBENZENE	950,000 U	930,000 U	520,000 U	380,000 U	320,000 U	210,000 U	210,000 U	27,000 U	18,000 U	140	130	26,000 U	380	24,000 U	660 U	30,000 U	3.5 U
1,3,5-TRIMETHYLBENZENE	950,000 U	930,000 U	520,000 U	380,000 U	320,000 U	210,000 U	210,000 U	27,000 U	18,000 U	66	66	26,000 U	310	24,000 U	660 U	30,000 U	3.5 U
1,3-BUTADIENE	430,000 U	420,000 U	230,000 U	170,000 U	140,000 U	95,000 U	96,000 U	12,000 U	8,100 U	6.7 U	7.1 U	12,000 U	1.7 U	11,000 U	300 U	14,000 U	1.6 U
BENZENE	2,300,000	3,000,000	1,600,000	850,000	2,500,000	2,300,000	140,000 U	490,000	340,000	9.7 U	10 U	370,000	12	170,000	430 U	800,000	2.2 U
ETHYL BENZENE	840,000 U	820,000 U	460,000 U	340,000 U	280,000 U	190,000 U	190,000 U	160,000	75,000	15	14 U	40,000	10	21,000 U	580 U	330,000	3.1 U
HEXANE	7,300,000	8,000,000	6,600,000	4,700,000	8,700,000	7,300,000	7,500,000	3,300,000	3,000,000	3,000	3,300	3,100,000	140	3,300,000	2,900	5,700,000	2.5 U
ISOPENTANE	120,000,000	150,000,000	96,000,000	69,000,000	54,000,000	48,000,000	34,000,000	3,500,000	3,200,000	1,700	1,900	3,400,000	76	3,000,000	2,800	3,500,000	2.1 U
M,P-XYLENE	840,000 U	820,000 U	460,000 U	340,000 U	280,000 U	190,000 U	190,000 U	390,000	150,000	52	54	87,000	40	21,000 U	1,400	820,000	3.1 U
O-XYLENE	840,000 U	820,000 U	460,000 U	340,000 U	280,000 U	190,000 U	190,000 U	81,000	16,000 U	22	23	23,000 U	210	21,000 U	580 U	160,000	3.1 U
TOLUENE	990,000	1,200,000	1,100,000	1,100,000	1,000,000	850,000	160,000 U	1,200,000	610,000	14	13	460,000	12	29,000	800	1,700,000	2.6 U
Analytical Method TO15 (rerun)	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
BENZENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	150	-	-
ETHYL BENZENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	170 U	-	-
M,P-XYLENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,300	-	-
O-XYLENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	370	-	-
TOLUENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	460	-	-

Notes:
%-result is reported as a percent
U-compound was analyzed for but not detected above reporting limit
J-Estimated value
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-4 B
ACTIVE SOIL VAPOR ANALYTICAL RESULTS (ug/m3)
VMP-55 through VMP-96
January - March 2005

Hartford Working Group
Hartford, Illinois

Location ID	VMP-79	VMP-79	VMP-79	VMP-80	VMP-80	VMP-80	VMP-80	VMP-80	VMP-80	VMP-80	VMP-80	VMP-80	VMP-80	VMP-80	VMP-80	VMP-81
Port ID	VMP-79M	VMP-79M	VMP-79VS	VMP-80D	VMP-80D	VMP-80M	VMP-80M	VMP-80M	VMP-80M	VMP-80S	VMP-80S	VMP-80S	VMP-80VS	VMP-80VS	VMP-80VS	VMP-81D
Sample Date	1/17/2005	1/17/2005	1/17/2005	1/11/2005	3/23/2005	1/11/2005	1/11/2005	1/19/2005	3/23/2005	1/11/2005	1/19/2005	3/23/2005	1/11/2005	1/19/2005	3/23/2005	1/12/2005
Sample ID	011705-VMP-79M	011705-VMP-79M-Dup	011705-VMP-79VS	011105-VMP-80D	032305-VMP-80 D	011105-VMP-80M DUP	011105-VMP-80M	011905-VMP-80M	032305-VMP-80 M	011105-VMP-80S	011905-VMP-80S	032305-VMP-80 S	011105-VMP-80VS	011905-VMP-80VS	032305-VMP-80 VS	011205-VMP-81D
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method TO14	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1-BUTENE	6.6 U	6.6 U	6.5 U	89,000	46,000	80,000	82,000	77,000	110	14,000	83,000	120	63,000	69,000	48	88,000
ACETYLENE	7.7 U	7.7 U	7.5 U	3,100 U	1,500 U	3,200 U	2,800 U	2,700 U	47 U	3,600 U	3,300 U	43 U	3,100 U	3,000 U	38 U	2,400 U
BUTANE	17 U	17 U	17 U	11,000,000	5,800,000	10,000,000	11,000,000	10,000,000	7,200	1,900,000	10,000,000	11,000	9,500,000	9,700,000	6,400	9,200,000
CIS-2-BUTENE	6.6 U	6.6 U	6.5 U	460,000	260,000	420,000	430,000	400,000	260	73,000	420,000	260	320,000	360,000	77	500,000
ETHANE	8.8 U	9.2	12	110,000	16,000	110,000	120,000	110,000	93,000	20,000	110,000	84,000	170,000	160,000	74,000	44,000
ETHENE	8.3 U	8.3 U	8.1 U	3,300 U	1,600 U	3,400 U	3,000 U	2,900 U	220	3,900 U	3,500 U	680	3,400 U	3,300 U	370	2,600 U
ISOBUTANE	6.8 U	6.8 U	6.7 U	2,200,000	920,000	2,000,000	2,100,000	2,000,000	8,800	350,000	2,000,000	7,800	1,800,000	1,900,000	6,300	1,500,000
PROPANE	13 U	13 U	13 U	54,000	12,000	44,000	43,000	41,000	32,000	8,100	44,000	24,000	47,000	48,000	22,000	24,000
PROPYLENE	12 U	12 U	12 U	5,000 U	2,400 U	5,100 U	4,500 U	4,400 U	170	5,800 U	5,300 U	360	5,000 U	4,900 U	170	3,900 U
TRANS-2-BUTENE	6.6 U	6.6 U	6.5 U	590,000	310,000	540,000	560,000	520,000	160	95,000	550,000	450	430,000	480,000	140	580,000
Analytical Method TO15	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1,2,4-TRIMETHYLBENZENE	4.4	9.2	7.5	240,000 U	220,000 U	240,000 U	180,000 U	230,000 U	520	250,000 U	170,000 U	3,300	200,000 U	220,000 U	12,000	260,000 U
1,3,5-TRIMETHYLBENZENE	3.5 U	4.7	3.4 U	240,000 U	220,000 U	240,000 U	180,000 U	230,000 U	1,300	250,000 U	170,000 U	18,000	200,000 U	220,000 U	6,600	260,000 U
1,3-BUTADIENE	1.6 U	1.6 U	1.6 U	110,000 U	100,000 U	110,000 U	80,000 U	100,000 U	49 U	110,000 U	77,000 U	170 U	89,000 U	99,000 U	89 U	120,000 U
BENZENE	2.3 U	2.3 U	3.8	1,800,000	2,800,000	1,600,000	1,200,000	1,900,000	1,000	290,000	730,000	1,100	130,000 U	140,000 U	180	2,100,000
ETHYL BENZENE	8.4	9.4	18	210,000 U	200,000 U	220,000 U	160,000 U	200,000 U	720	220,000 U	150,000 U	3,900	170,000 U	190,000 U	990	230,000 U
HEXANE	4.3	4.7	8.6	9,900,000	17,000,000	9,000,000	7,100,000	9,200,000	2,200	8,800,000	7,700,000	30,000	6,600,000	7,400,000	6,200	11,000,000
ISOPENTANE	7.2	6.5	16	36,000,000	41,000,000	35,000,000	26,000,000	43,000,000	18,000	35,000,000	32,000,000	68,000	30,000,000	33,000,000	31,000	40,000,000
M,P-XYLENE	28	37	49	210,000 U	400,000	340,000	250,000	200,000 U	1,500	220,000 U	150,000 U	3,400	170,000 U	190,000 U	5,000	330,000
O-XYLENE	8.8	11	14	210,000 U	200,000 U	220,000 U	160,000 U	200,000 U	1,900	220,000 U	150,000 U	19,000	170,000 U	190,000 U	5,500	230,000 U
TOLUENE	41	44	71	2,000,000	3,600,000	1,800,000	1,600,000	2,200,000	2,000	190,000 U	370,000	1,700	150,000 U	170,000 U	1,000	1,900,000
Analytical Method TO15 (rerun)	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
BENZENE	-	-	-	-	-	-	-	-	-	-	-	-	14,000	-	-	-
ETHYL BENZENE	-	-	-	-	-	-	-	-	-	-	-	-	58,000	-	-	-
M,P-XYLENE	-	-	-	-	-	-	-	-	-	-	-	-	190,000	-	-	-
O-XYLENE	-	-	-	-	-	-	-	-	-	-	-	-	69,000	-	-	-
TOLUENE	-	-	-	-	-	-	-	-	-	-	-	-	110,000	-	-	-

Notes:
%-result is reported as a percent
U-compound was analyzed for but not detected above reporting limit
J-Estimated value
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-4 B
ACTIVE SOIL VAPOR ANALYTICAL RESULTS (ug/m3)
VMP-55 through VMP-96
January - March 2005

Hartford Working Group
Hartford, Illinois

Location ID	VMP-81	VMP-81	VMP-81	VMP-81	VMP-81	VMP-82	VMP-82	VMP-82	VMP-83	VMP-83	VMP-83	VMP-83	VMP-84	VMP-84	VMP-84	VMP-84	VMP-84
Port ID	VMP-81M	VMP-81S	VMP-81S	VMP-81VS	VMP-81VS	VMP-82M	VMP-82S	VMP-82VS	VMP-83D	VMP-83M	VMP-83S	VMP-83VS	VMP-84D	VMP-84M	VMP-84M	VMP-84S	VMP-84S
Sample Date	1/12/2005	1/6/2005	1/12/2005	1/6/2005	1/12/2005	1/12/2005	1/12/2005	1/12/2005	1/17/2005	1/17/2005	1/17/2005	1/17/2005	1/17/2005	1/17/2005	3/10/2005	1/17/2005	3/10/2005
Sample ID	011205-VMP-81M	010605-VMP81-S	011205-VMP-81S	010605-VMP81-VS	011205-VMP-81VS	011205-VMP-82M	011205-VMP-82S	011205-VMP-82VS	011705-VMP-83D	011705-VMP-83M	011705-VMP-83S	011705-VMP-83VS	011705-VMP-84D	011705-VMP-84M	031005 VMP-84M	011705-VMP-84S	031005 VMP-84S
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method TO14	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1-BUTENE	61,000	-	89,000	-	56,000	7.4	7.4 U	7.1 U	20	20	6.4 U	6.5 U	6.8 U	6.6 U	6.6 U	8.7	6.5 U
ACETYLENE	2,200 U	-	2,300 U	-	1,600 U	8.6 U	8.6 U	8.2 U	7.7 U	9.9 U	7.4 U	7.5 U	7.9 U	7.7 U	7.7 U	7.5 U	7.5 U
BUTANE	6,500,000	-	9,500,000	-	6,300,000	23	60	52	66	560	17	18	18 U	17 U	17 U	65	55
CIS-2-BUTENE	340,000	-	500,000	-	360,000	7.4 U	7.4 U	7.1 U	6.6 U	44	6.4 U	6.5 U	6.8 U	6.6 U	6.6 U	6.5 U	6.5 U
ETHANE	30,000	-	42,000	-	19,000	36	9.9 U	9.5 U	62	26	28	24	12	10	8.8 U	92	53
ETHENE	2,400 U	-	2,500 U	-	1,700 U	17	9.2 U	8.9 U	41	11 U	11	12	8.5 U	8.3 U	8.3 U	82	49
ISOBUTANE	1,100,000	-	1,600,000	-	910,000	7.7	24	21	24	95	7.6	8.3	7.1 U	6.8 U	6.8 U	33	29
PROPANE	17,000	-	38,000	-	12,000	23	14 U	14 U	61	23	21	21	13 U	13 U	13 U	100	80
PROPYLENE	3,500 U	-	3,800 U	-	2,600 U	17	14 U	13 U	57	16 U	12 U	13	13 U	12 U	12 U	66	38
TRANS-2-BUTENE	410,000	-	590,000	-	410,000	7.4 U	7.4 U	7.1 U	7.1	46	6.4 U	6.5 U	6.8 U	6.6 U	6.6 U	6.5 U	6.5 U
Analytical Method TO15	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1,2,4-TRIMETHYLBENZENE	220,000 U	240,000 U	400,000 U	18,000 U	400,000 U	18	4.0 U	3.8 U	6.9	4.3	6.4	3.9	3.7 U	3.5 U	-	3.5 U	-
1,3,5-TRIMETHYLBENZENE	220,000 U	240,000 U	400,000 U	18,000 U	400,000 U	5.3	4.0 U	3.8 U	3.5 U	3.4 U	3.4 U	3.5 U	3.7 U	3.5 U	-	3.5 U	-
1,3-BUTADIENE	97,000 U	110,000 U	180,000 U	8,200 U	180,000 U	1.8 U	1.8 U	1.7 U	1.6 U	1.5 U	1.5 U	1.6 U	1.6 U	1.6 U	-	1.6 U	-
BENZENE	1,600,000	1,100,000	2,400,000	12,000 U	2,700,000	6.4	4.2	4.8	2.9	5.2	7.6	5	2.4 U	2.3 U	-	2.2 U	-
ETHYL BENZENE	190,000 U	210,000 U	360,000 U	16,000 U	360,000 U	16	8.7	4	14	12	17	9.6	3.2 U	3.1 U	-	8	-
HEXANE	8,700,000	7,500,000	12,000,000	690,000	13,000,000	26	5.8	14	34	13	20	23	2.6 U	2.5 U	-	56	-
ISOPENTANE	32,000,000	29,000,000	50,000,000	2,500,000	51,000,000	34	8.1	13	76	26	30	36	3.3	2.1	-	120	-
M,P-XYLENE	260,000	210,000 U	360,000 U	16,000 U	450,000	50	27	12	44	37	50	30	3.2 U	6	-	23	-
O-XYLENE	190,000 U	210,000 U	360,000 U	16,000 U	360,000 U	16	7.6	3.4 U	11	8.2	11	7.2	3.2 U	3.1 U	-	5.9	-
TOLUENE	1,500,000	740,000	2,800,000	14,000 U	2,700,000	120	110	64	100	160	220	120	2.8 U	14	-	67	-
Analytical Method TO15 (rerun)	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
BENZENE	-	-	-	3,200	-	-	-	-	-	-	-	-	-	-	-	-	-
ETHYL BENZENE	-	-	-	2,200	-	-	-	-	-	-	-	-	-	-	-	-	-
M,P-XYLENE	-	-	-	7,400	-	-	-	-	-	-	-	-	-	-	-	-	-
O-XYLENE	-	-	-	2,200	-	-	-	-	-	-	-	-	-	-	-	-	-
TOLUENE	-	-	-	7,400	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
%-result is reported as a percent
U-compound was analyzed for but not detected above reporting limit
J-Estimated value
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-4 B
ACTIVE SOIL VAPOR ANALYTICAL RESULTS (ug/m3)
VMP-55 through VMP-96
January - March 2005

Hartford Working Group
Hartford, Illinois

Location ID	VMP-84	VMP-84	VMP-85	VMP-85	VMP-85	VMP-85	VMP-86	VMP-86	VMP-86	VMP-86	VMP-88	VMP-88	VMP-89	VMP-89	VMP-89	VMP-90	VMP-90
Port ID	VMP-84VS	VMP-84VS	VMP-85VS	VMP-85S	VMP-85M	VMP-85D	VMP-86VS	VMP-86S	VMP-86M	VMP-86D	VMP-88VS	VMP-88S	VMP-89VS	VMP-89S	VMP-89S	VMp-90VS	VMP-90S
Sample Date	1/17/2005	3/10/2005	1/12/2005	1/12/2005	1/12/2005	1/12/2005	1/13/2005	1/13/2005	1/13/2005	1/13/2005	2/22/2005	2/22/2005	2/22/2005	2/22/2005	2/22/2005	2/22/2005	2/22/2005
Sample ID	011705-VMP-84VS	031005 VMP-84VS	011205-VMP-85VS	011205-VMP-85S	011205-VMP-85M	011205-VMP-85-D	011305-VMP-86VS	011305-VMP-86S	011305-VMP-86M	011305-VMP-86D	022205-VMP-88VS	022205-VMP-88S	022205-VMP-89VS	022205-VMP-89S	022205-VMP-89S DUP	022205-VMP-90VS	022205-VMP-90S
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method TO14	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1-BUTENE	13	7.1 U	10	7.5 U	7.0 U	7.4 U	7.1 U	7.0 U	6.6 U	7.8 U	6.8 U	6.7 U	15	58	58	6,500	12,000
ACETYLENE	6.9 U	8.2 U	8.7 U	8.7 U	8.1 U	8.6 U	8.2 U	8.1 U	7.7 U	9.1 U	7.9 U	7.8 U	26	19	19	380 U	630 U
BUTANE	110	120	19 U	19 U	18 U	19 U	18 U	18 U	17 U	20 U	1,100	260	210	280	260	1,300,000	1,900,000
CIS-2-BUTENE	5.9 U	7.1 U	7.5 U	7.5 U	7.0 U	7.4 U	7.1 U	7.0 U	6.6 U	7.8 U	13	6.7 U	8.7	28	28	27,000	52,000
ETHANE	170	240	30	15	9.3 U	9.9 U	19	9.3 U	8.8 U	10 U	24	68	110	300	300	11,000	14,000
ETHENE	110	88	16	10	8.7 U	9.2 U	9.5	8.7 U	8.3 U	9.8 U	14	39	52	200	190	1,100	2,000
ISOBUTANE	72	80	7.8 U	7.8 U	7.2 U	7.6 U	7.4 U	7.2 U	6.8 U	8.1 U	86	38	40	70	73	340,000	460,000
PROPANE	190	430	25	15 U	14 U	14 U	16	14 U	13 U	15 U	19	52	59	150	140	18,000	25,000
PROPYLENE	90	64	29	14 U	13 U	14 U	18	13 U	12 U	15 U	13 U	12 U	44	150	150	640	1,000 U
TRANS-2-BUTENE	5.9 U	7.1 U	7.5 U	7.5 U	7.0 U	7.4 U	7.1 U	7.0 U	6.6 U	7.8 U	20	6.7 U	9.6	28	28	44,000	81,000
Analytical Method TO15	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1,2,4-TRIMETHYLBENZENE	3.7	-	4.0 U	8.4	4.4	4.0 U	3.8 U	4.3	3.5 U	4.2 U	3.7 U	3.6 U	9,800	210,000	190,000	15,000 U	63,000
1,3,5-TRIMETHYLBENZENE	3.2 U	-	4.0 U	4.0 U	3.7 U	4.0 U	3.8 U	3.7 U	3.5 U	4.2 U	3.7 U	3.6 U	7,200	120,000	110,000	15,000 U	26,000
1,3-BUTADIENE	1.4 U	-	1.8 U	1.8 U	1.7 U	1.8 U	1.7 U	1.7 U	1.6 U	1.9 U	1.6 U	1.6 U	13 U	400 U	400 U	6,700 U	11,000 U
BENZENE	2.6	-	10	13	6	7.5	5.1	2.4 U	2.3 U	2.7 U	3.4	2.3 U	18 U	580 U	580 U	14,000	150,000
ETHYL BENZENE	6.3	-	8.5	16	9.1	3.5 U	5.8	9.1	4.4	3.7 U	5.9	3.2 U	720	2,400	2,400	13,000 U	110,000
HEXANE	79	-	31	34	17	18	5.7	6.4	4.4	3.0 U	8.8	2.6	51	630 U	640 U	160,000	300,000
ISOPENTANE	200	-	34	34	38	23	7.4	11	6	3.8	62	44	97	1,300	1,000	2,200,000	3,300,000
M,P-XYLENE	19	-	24	48	30	5	18	28	12	3.7 U	18	6.6	12,000	380,000	390,000	19,000	360,000
O-XYLENE	4.7	-	6.3	12	7.4	3.5 U	5.3	9	3.8	3.7 U	4.4	3.2 U	8,400	290,000	300,000	13,000 U	110,000
TOLUENE	45	-	120	150	82	18	91	82	32	3.2 U	42	9.9	230	680 U	690 U	11,000 U	140,000
Analytical Method TO15 (rerun)	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
BENZENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ETHYL BENZENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M,P-XYLENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
O-XYLENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOLUENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
%-result is reported as a percent
U-compound was analyzed for but not detected above reporting limit
J-Estimated value
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-4 B
ACTIVE SOIL VAPOR ANALYTICAL RESULTS (ug/m3)
VMP-55 through VMP-96
January - March 2005

Hartford Working Group
Hartford, Illinois

Location ID	VMP-91	VMP-92	VMP-92	VMP-93	VMP-93	VMP-94	VMP-94	VMP-96
Port ID	VMP-91S	VMP-92VS	VMP-92S	VMP-93VS	VMP-93S	VMp-94VS	VMP-94S	VMP-96
Sample Date	2/22/2005	2/22/2005	2/22/2005	2/22/2005	2/22/2005	2/22/2005	2/22/2005	1/31/2005
Sample ID	022205-VMP-91S	022205-VMP-92VS	022205-VMP-92S	022205-VMP-93VS	022205-VMP-93S	022205-VMP-94VS	022205-VMP-94S	013105-VMP96-BORING
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method TO14	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1-BUTENE	6.2 U	2,000	240	6.7 U	6.8 U	230,000	1,600,000	2,000,000
ACETYLENE	7.1 U	56	13 U	7.8 U	7.9 U	2,800 U	23,000 U	45,000 U
BUTANE	46	66,000	17,000	120	65	9,200,000	72,000,000	150,000,000
CIS-2-BUTENE	6.2 U	2,300	240	6.7 U	6.8 U	540,000	3,000,000	4,600,000
ETHANE	22	1,700	3,000	13	18	110,000	910,000	910,000
ETHENE	16	110	75	8.4 U	12	28,000	200,000	49,000 U
ISOBUTANE	17	28,000	51,000	44	17	3,200,000	28,000,000	50,000,000
PROPANE	21	3,100	2,800	14	18	460,000	3,800,000	2,700,000
PROPYLENE	13	86	21 U	12 U	13 U	9,200	68,000	73,000 U
TRANS-2-BUTENE	6.2 U	3,200	300	6.9	6.8 U	650,000	4,200,000	7,000,000
Analytical Method TO15	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1,2,4-TRIMETHYLBENZENE	8.3	240 U	69 U	3.6 U	3.7 U	72,000 U	600,000 U	870,000 U
1,3,5-TRIMETHYLBENZENE	3.3 U	240 U	69 U	3.6 U	3.7 U	72,000 U	600,000 U	870,000 U
1,3-BUTADIENE	1.5 U	110 U	31 U	1.6 U	1.6 U	32,000 U	270,000 U	390,000 U
BENZENE	6.6	160 U	45 U	3.9	4.3	47,000 U	390,000 U	570,000 U
ETHYL BENZENE	14	210 U	61 U	5.8	7.6	63,000 U	530,000 U	770,000 U
HEXANE	11	460	140	12	21	1,200,000	7,000,000	12,000,000
ISOPENTANE	27	33,000	14,000	25	44	7,300,000	67,000,000	180,000,000
M,P-XYLENE	31	210 U	61 U	15	22	92,000	530,000 U	770,000 U
O-XYLENE	9.6	210 U	61 U	3.6	4.7	63,000 U	530,000 U	770,000 U
TOLUENE	70	180 U	53 U	45	53	55,000 U	460,000 U	670,000 U
Analytical Method TO15 (rerun)	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
BENZENE	-	-	-	-	-	9,400	280,000	-
ETHYL BENZENE	-	-	-	-	-	8,900	46,000	-
M,P-XYLENE	-	-	-	-	-	18,000	80,000	-
O-XYLENE	-	-	-	-	-	3,200	16,000	-
TOLUENE	-	-	-	-	-	10,000	210,000	-

Notes:
%-result is reported as a percent
U-compound was analyzed for but not detected above reporting limit
J-Estimated value
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-5A
Active Soil Vapor Analytical Results - MP (ppbv)
January-March 2005

Hartford Working Group
Hartford, Illinois

Location ID	MP-5	MP-5	MP-6	MP-7	MP-7	MP-8	MP-8	MP-9	MP-9	MP-10	MP-11	MP-11	MP-12	MP-12	MP-13	MP-13	MP-14	MP-14	MP-15	MP-15	MP-16
Point ID	MP-5D	MP-5S	MP-6S	MP-7D	MP-7S	MP-8D	MP-8S	MP-9D	MP-9S	MP-10S	MP-11D	MP-11S	MP-12D	MP-12S	MP-13D	MP-13S	MP-14D	MP-14S	MP-15D	MP-15S	MP-16D
Sample Date	1/26/2005	1/26/2005	1/20/2005	1/26/2005	1/26/2005	1/20/2005	1/20/2005	1/26/2005	2/22/2005	1/26/2005	1/11/2005	1/11/2005	1/11/2005	1/11/2005	1/26/2005	1/26/2005	1/26/2005	1/26/2005	1/10/2005	1/10/2005	1/10/2005
Sample ID	012605-MP-5D	012605-MP-5S	012005-MP-6S	012605-MP-7D	012605-MP-7S	012005-MP-8D	012005-MP-8S	012605-MP-9D	022205-MP-9S	012605-MP-10S	011105-MP11D	011105-MP11S	011105-MP12D	011105-MP12S	012605-MP-13D	012605-MP-13S	012605-MP-14D	012605-MP-14S	011005-MP-15D	011005-MP-15S	011005-MP-16D
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method D1946	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
CARBON DIOXIDE	0.081	5.2	15	1.3	8.3	0.05	4.6	16	0.8	0.039	0.085	0.16	0.27	0.66	1.4	0.14	5.8	0.14	16	0.54	15
METHANE	0.053	7.6	45	5.1	36	0.0003	30	54	2.3	0.0001900	0.0064	0.00016 U	0.00025	0.00016 U	0.00014 U	0.00028	0.0014	0.00033	0.28	0.00036	0.49
METHANE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OXYGEN	22	15	0.84	20	9.2	24	12	1.6	20	22	20	21	20	20	20	20	13	21	1.5	20	1.40
Analytical Method TO14	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1-BUTENE	120	4,800	4,200	5,000	35,000	3.4 U	48,000	37,000	230	3.1 U	3.4 U	3.1 U	3.2 U	3.2 U	2.9 U	3.1 U	5.10	3.0 U	9,800	4.6 U	23,000
ACETYLENE	25 U	580 U	3,200 U	660 U	2,300 U	8.6 U	2,300 U	3,500 U	330 U	7.8 U	8.4 U	7.8 U	8.0 U	7.9 U	7.2 U	7.8 U	11 U	7.6 U	220 U	11 U	640 U
BUTANE	56,000	1,100,000	4,800,000	1,300,000	4,800,000	46	3,700,000	6,500,000	510,000	7.8 U	620	15	23	7.9 U	14	39	330	7.6 U	460,000	11 U	1,400,000
CIS-2-BUTENE	540	27,000	11,000	30,000	130,000	3.4 U	200,000	130,000	1,700	3.1 U	5.4	3.1 U	3.2 U	3.2 U	2.9 U	3.1 U	16	3.0 U	25,000	4.6 U	67,000
ETHANE	700	29,000	140,000	28,000	150,000	9	98,000	200,000	6,000	7.8 U	46	7.8 U	16	7.9 U	7.2 U	9.6	33	7.6 U	13,000	14	29,000
ETHENE	29	580 U	3,200 U	660 U	2,300 U	8.6 U	2,300 U	3,500 U	330 U	7.8 U	23	7.8 U	13	7.9 U	7.2 U	7.8 U	14	7.6 U	5,500	11 U	11,000
ISOBUTANE	18,000	360,000	1,900,000	390,000	1,500,000	16	1,100,000	2,200,000	140,000	8.60	190	4.4	6.4	3.2 U	2.9 U	17	74	11	110,000	5.2	300,000
PROPANE	710	17,000	90,000	20,000	90,000	8.6 U	67,000	120,000	3,600	7.8 U	26	7.8 U	11	8.6	7.2 U	7.8 U	11 U	7.6 U	12,000	11 U	23,000
PROPYLENE	25 U	580 U	3,200 U	660 U	2,300 U	8.6 U	2,300 U	3,500 U	330 U	7.8 U	8.4 U	7.8 U	8.0 U	7.9 U	7.2 U	7.8 U	11 U	7.6 U	220 U	11 U	640 U
TRANS-2-BUTENE	1,200	44,000	40,000	58,000	210,000	3.4 U	250,000	230,000	5,300	3.1 U	8	3.1 U	3.2 U	3.2 U	2.9 U	3.1 U	17	3.0 U	30,000	4.6 U	83,000
Analytical Method TO15	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1,2,4-TRIMETHYLBENZENE	700 U	9,100 U	73,000 U	19,000 U	35,000 U	13	27,000 U	74,000 U	4,100 U	0.78 U	2.8 U	2.1 U	2.20	0.79 U	490	1.5	1,400	0.92	4,700	1.1 U	9,300 U
1,3,5-TRIMETHYLBENZENE	700 U	9,100 U	73,000 U	19,000 U	35,000 U	3.6	27,000 U	74,000 U	4,100 U	0.78 U	2.8 U	2.1 U	0.82	0.79 U	160	1.8	920	0.76 U	3,400	1.1 U	9,300 U
1,3-BUTADIENE	700 U	9,100 U	73,000 U	19,000 U	35,000 U	0.86 U	27,000 U	74,000 U	4,100 U	0.78 U	2.8 U	2.1 U	0.80 U	0.79 U	3.6 U	0.78 U	28 U	0.76 U	2,300 U	1.1 U	9,300 U
BENZENE	700 U	28,000	73,000 U	96,000	35,000 U	21	92,000	74,000 U	6,700	0.78 U	2.8 U	2.1 U	2.4	0.79 U	32	0.78 U	2,700	0.84	98,000	1.1 U	310,000
ETHYL BENZENE	700 U	9,100 U	73,000 U	19,000 U	35,000 U	6.8	27,000 U	74,000 U	4,100 U	0.78 U	3.9	2.1 U	0.80 U	0.79 U	32	0.78 U	83	1.7	18,000	1.1 U	36,000
HEXANE	18,000	220,000	620,000	480,000	1,100,000	40	990,000	1,500,000	52,000	0.79	13	5.6	2.2	0.79 U	94	1.4	7,200	0.76 U	160,000	1.1 U	710,000
ISOPENTANE	160,000	2,400,000	12,000,000	3,000,000	10,000,000	84	8,600,000	14,000,000	1,100,000	1.4	690	7.4	15	8.6	68	10	3,100	0.81	530,000	1.1 U	2,400,000
M,P-XYLENE	700 U	9,100 U	73,000 U	68,000	35,000 U	14	27,000 U	74,000 U	4,100 U	0.78 U	7.6	2.1 U	2.4	0.79 U	250	0.78 U	7,700	7.9	93,000	1.1 U	84,000
O-XYLENE	700 U	9,100 U	73,000 U	19,000 U	35,000 U	3	27,000 U	74,000 U	4,100 U	0.78 U	3.6	2.1 U	0.80 U	0.79 U	110	1	3,500	1.2	31,000	1.1 U	25,000
TOLUENE	1,000	9,100 U	73,000 U	47,000	35,000 U	8.3	27,000 U	74,000 U	4,100 U	0.78 U	13	2.1 U	1.2	0.79 U	14	0.78 U	6,300	2.2	190,000	1.1 U	400,000
Analytical Method TO15 (rerun)	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
BENZENE	35 U	-	7,200	-	32,000	-	-	3,700 U	-	-	-	-	-	-	-	-	-	-	-	-	-
ETHYL BENZENE	35 U	-	240 U	-	23,000 U	-	-	3,700 U	-	-	-	-	-	-	-	-	-	-	-	-	-
M,P-XYLENE	35 U	-	240 U	-	23,000 U	-	-	3,700 U	-	-	-	-	-	-	-	-	-	-	-	-	-
O-XYLENE	35 U	-	240 U	-	23,000 U	-	-	3,700 U	-	-	-	-	-	-	-	-	-	-	-	-	-
TOLUENE	35 U	-	240 U	-	23,000 U	-	-	3,700 U	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
%-Result is reported as a percent
U-compound was analyzed for but not detected above the reporting limit
J-Estimated value, analyte detected below reporting limit
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-5A
Active Soil Vapor Analytical Results - MP (ppbv)
January-March 2005

Hartford Working Group
Hartford, Illinois

Location ID	MP-16	MP-17	MP-17	MP-17	MP-18	MP-18	MP-18	MP-18	MP-18	MP-19	MP-19	MP-19	MP-19	MP-19	MP-19	MP-20	MP-20	MP-20	MP-20	MP-21	MP-21	MP-21
Point ID	MP-16S	MP-17	MP-17	MP-17	MP-18	MP-18	MP-18	MP-18	MP-18	MP-19	MP-19	MP-19	MP-19	MP-19	MP-19	MP-20	MP-20	MP-20	MP-20	MP-21	MP-21	MP-21
Sample Date	1/10/2005	1/19/2005	1/20/2005	3/23/2005	1/12/2005	1/19/2005	1/20/2005	1/27/2005	3/23/2005	1/12/2005	1/19/2005	1/20/2005	1/27/2005	3/23/2005	3/23/2005	1/12/2005	1/19/2005	1/20/2005	3/23/2005	1/12/2005	1/27/2005	3/23/2005
Sample ID	011005-MP-16S	011905-MP-17	012005-MP-17	032305-MP-17	011205-MP18	011905-MP-18	012005-MP-18	012705-MP-18	032305-MP-18	011205-MP19	011905-MP-19	012005-MP-19	012705-MP-19	032305-MP-19	032305-MP-19 Dup	011205-MP20	011905-MP-20	012005-MP-20	032305-MP-20	011205-MP21	012705-MP-21	032305-MP-21
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method D1946	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
CARBON DIOXIDE	3.2	11	7.40	0.038	8.4	9	1.6	0.053	0.06	11.00	10.00	1.50	0.34	0.05	0.08	10	8.80	0.05	0.05	11.00	0.36	0.30
METHANE	0.00088	1.60	0.3	0.00022	0.19	0.7	0.053	0.00018	0.00015 U	0.65	0.82	0.022	0.00087	0.00021	0.0002	0.33	0.3	0.0048	0.00190	0.78	0.0048	0.00092
METHANE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OXYGEN	15	1.3	6.5	21	2.5	3.3	19	22	21	1.30	4	19	22	21	21	1.1	6	21	21	1.2	21	20
Analytical Method TO14	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1-BUTENE	4.8 U	2,700	540	3.0 U	490	1,700	62	2.8 U	3.0 U	250	560	10	3.0 U	2.7 U	3.2 U	1,200	1,300	21	3.1 U	2,700	49	23
ACETYLENE	12 U	1,000 U	320 U	7.4 U	150 U	470 U	30 U	7.0 U	7.6 U	220 U	310 U	7.4 U	7.6 U	6.7 U	8.0 U	400 U	540 U	7.8 U	7.8 U	960 U	7.3 U	7.4 U
BUTANE	30	1,700,000	500,000	11	250,000	870,000	49,000	13	7.6 U	430,000	570,000	12,000	650	6.7 U	8.0 U	790,000	890,000	1,700	38	1,700,000	8,000	1,700
CIS-2-BUTENE	4.8 U	11,000	1,400	3.0 U	1,300	7,500	240	2.8 U	3.0 U	1,500	2,400	47	4.4	2.7 U	3.2 U	5,600	6,500	29	3.1 U	17,000	280	77
ETHANE	13	20,000	2,300	9.10	1,300	6,500	440	7.70	7.6 U	7,800	8,500	240	14	8.3	8.80	6,600	4,700	27	8.5	20,000	100	21
ETHENE	12 U	1,000 U	320 U	7.4 U	150 U	470 U	30 U	7.0 U	7.6 U	220 U	310 U	7.4 U	7.6 U	6.7 U	8.0 U	400 U	540 U	7.8 U	7.8 U	960 U	20	26
ISOBUTANE	16	360,000	150,000	3.40	86,000	200,000	12,000	9.10	9.10	98,000	130,000	3,200	140	2.7 U	3.2 U	170,000	200,000	640	32	370,000	1,500	390
PROPANE	12 U	7,200	1,900	7.4 U	1,200	3,800	200	7.0 U	7.6 U	2,100	2,800	77	7.60	6.7 U	8.0 U	3,400	4,800	57	7.8 U	13,000	47	21
PROPYLENE	12 U	1,000 U	320 U	7.4 U	150 U	470 U	30 U	7.0 U	7.6 U	220 U	310 U	7.4 U	7.6 U	6.7 U	8.0 U	400 U	540 U	7.8 U	7.8 U	960 U	14	7.4 U
TRANS-2-BUTENE	4.8 U	24,000	2,900	3.0 U	2,400	16,000	510	2.8 U	3.0 U	2,500	5,300	100	8.00	2.7 U	3.2 U	9,200	11,000	46	3.1 U	32,000	410	92
Analytical Method TO15	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1,2,4-TRIMETHYLBENZENE	1.2 U	37,000 U	7,900 U	0.74 U	5,200 U	24,000 U	1,000 U	4.8	0.76 U	7,800 U	11,000 U	300 U	19 U	0.67 U	0.80 U	11,000 U	14,000 U	16 U	0.78 U	24,000 U	150 U	30 U
1,3,5-TRIMETHYLBENZENE	1.2 U	37,000 U	7,900 U	0.74 U	5,200 U	24,000 U	1,000 U	1.7	0.76 U	7,800 U	11,000 U	300 U	19 U	0.67 U	0.80 U	11,000 U	14,000 U	16 U	0.78 U	24,000 U	150 U	30 U
1,3-BUTADIENE	1.2 U	37,000 U	7,900 U	0.74 U	5,200 U	24,000 U	1,000 U	0.70 U	0.76 U	7,800 U	11,000 U	300 U	19 U	0.67 U	0.80 U	11,000 U	14,000 U	16 U	0.78 U	24,000 U	150 U	30 U
BENZENE	1.2 U	37,000 U	7,900 U	0.74 U	5,200 U	24,000 U	1,000 U	3.7	0.76 U	7,800 U	11,000 U	300 U	23	0.67 U	0.80 U	11,000 U	14,000 U	16 U	0.78 U	24,000 U	1,500	150
ETHYL BENZENE	1.2 U	37,000 U	7,900 U	0.74 U	5,200 U	24,000 U	1,000 U	3.9	0.76 U	7,800 U	11,000 U	300 U	19 U	0.67 U	0.80 U	11,000 U	14,000 U	16 U	0.78 U	24,000 U	150 U	30 U
HEXANE	1.2 U	1,100,000	180,000	0.74 U	79,000	420,000	22,000	26	5.3	200,000	300,000	7,900	680	0.67 U	0.81	330,000	280,000	160	2.5	760,000	8,400	3,000
ISOPENTANE	2.20	8,100,000	2,800,000	11	1,300,000	3,800,000	260,000	63	8.2	2,400,000	3,300,000	85,000	4,600	5.1	4.3	3,300,000	3,000,000	2,800	170	5,500,000	45,000	9,300
M,P-XYLENE	1.2 U	37,000 U	7,900 U	0.74 U	5,200 U	24,000 U	1,000 U	23	0.76 U	7,800 U	11,000 U	300 U	26	0.67 U	0.80 U	11,000 U	14,000 U	16 U	0.99	24,000 U	200	76
O-XYLENE	1.2 U	37,000 U	7,900 U	0.74 U	5,200 U	24,000 U	1,000 U	7.5	0.76 U	7,800 U	11,000 U	300 U	19 U	0.67 U	0.80 U	11,000 U	14,000 U	16 U	0.78 U	24,000 U	150 U	40
TOLUENE	1.2 U	37,000 U	7,900 U	0.74 U	5,200 U	24,000 U	1,000 U	18	0.76 U	7,800 U	11,000 U	300 U	19 U	0.67 U	0.80 U	11,000 U	14,000 U	16 U	3.9	24,000 U	350	120
Analytical Method TO15 (rerun)	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
BENZENE	-	260	220 U	-	160 U	220	75	-	-	330	250	18	-	-	-	800 U	3,500	7.5	-	17,000	-	-
ETHYL BENZENE	-	74 U	220 U	-	160 U	70 U	74 U	-	-	310 U	170	15 U	-	-	-	800 U	1,400 U	3.1 U	-	720 U	-	-
M,P-XYLENE	-	74 U	220 U	-	160 U	70 U	74 U	-	-	310 U	620	15 U	-	-	-	800 U	1,400 U	5.8	-	2,000	-	-
O-XYLENE	-	74 U	220 U	-	160 U	70 U	74 U	-	-	310 U	320	15 U	-	-	-	800 U	1,400 U	3.1 U	-	720 U	-	-
TOLUENE	-	150	220 U	-	160 U	70 U	74 U	-	-	310 U	320	15 U	-	-	-	800 U	1,400 U	4.2	-	1,100	-	-

Notes:
%-Result is reported as a percent
U-compound was analyzed for but not detected above the reporting limit
J-Estimated value, analyte detected below reporting limit
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-5A
Active Soil Vapor Analytical Results - MP (ppbv)
January-March 2005

Hartford Working Group
Hartford, Illinois

Location ID	MP-22	MP-22	MP-23	MP-23	MP-24	MP-24	MP-24	MP-25	MP-26	MP-27	MP-28	MP-29	MP-29	MP-29	MP-29	MP-30	MP-30	MP-30	MP-31	MP-31	MP-31
Point ID	MP-22	MP-22	MP-23	MP-23	MP-24	MP-24	MP-24	MP-25	MP-26	MP-27	MP-28	MP-29A	MP-29B	MP-29C	MP-29D	MP-30A	MP-30B	MP-30C	MP-31A	MP-31B	MP-31C
Sample Date	1/12/2005	3/23/2005	3/10/2005	3/23/2005	1/12/2005	1/12/2005	1/27/2005	1/26/2005	1/26/2005	1/26/2005	1/26/2005	1/26/2005	1/12/2005	1/12/2005	1/26/2005	1/14/2005	1/14/2005	1/14/2005	1/14/2005	1/14/2005	1/14/2005
Sample ID	011205-MP22	032305-MP-22	031005 MP-23	032305-MP-24	011205-MP24	011205-MP24 DUP	012705-MP-24	012605-MP-25	012605-MP-26	012605-MP-27	012605-MP-28	012605-MP-29A	011205-MP29B	011205-MP29C	012605-MP-29D	011405-MP-30A	011405-MP-30B	011405-MP-30C	011405-MP-31A	011405-MP-31B	011405-MP-31C
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method D1946	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
CARBON DIOXIDE	10	0.59	0.04	0.04	9.5	9.2	0.04	8.6	10	7.4	5.6	11	9.4	3.8	20	12	0.042	1.1	3.1	2.8	8.6
METHANE	0.67	0.00180	0.00019	0.00	0.77	0.74	0.00019	6.6	1.1	14	0.002	24	33	16	65	0.031	0.00035	4.9	0.00013 U	0.00013 U	2.2
METHANE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OXYGEN	3.8	20	21	21	5.6	5.3	22	1.3	1.3	1.3	5.6	3.8	4.1	12	0.33	2	19	17	17	15	1.3
Analytical Method TO14	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1-BUTENE	38,000	12	3.2 U	3.0 U	78,000	83,000	3.0 U	110,000	10,000	25,000	3.9	7,400	3,300 U	2,200 U	200,000	120	2.9 U	130,000	2.7 U	2.6 U	57,000
ACETYLENE	2,100 U	7.0 U	8.0 U	7.6 U	3,900 U	3,900 U	7.4 U	4,400 U	320 U	6,600 U	8.0 U	3,500 U	8,200 U	5,400 U	10,000 U	27 U	7.2 U	3,800 U	6.7 U	6.6 U	5,300 U
BUTANE	3,700,000	1,400	8.0 U	8.20	6,800,000	7,300,000	67.00	8,500,000	630,000	12,000,000	85	6,600,000	13,000,000	10,000,000	18,000,000	45,000	210	5,800,000	6.7 U	10	4,900,000
CIS-2-BUTENE	130,000	34	3.2 U	3.0 U	210,000	230,000	3.8	240,000	28,000	74,000	3.2	1,400 U	3,300 U	2,200 U	920,000	650	10	230,000	2.7 U	2.6 U	190,000
ETHANE	28,000	15	8.0 U	7.6 U	43,000	47,000	9.2	92,000	19,000	120,000	97	120,000	150,000	44,000	120,000	1,000	14	120,000	39	6.6 U	54,000
ETHENE	2,100 U	14	8.0 U	7.6 U	3,900 U	3,900 U	7.4 U	4,400 U	1,800	6,600 U	8.0 U	3,500 U	8,200 U	5,400 U	10,000 U	27 U	7.2 U	10,000	6.7 U	6.6 U	5,300 U
ISOBUTANE	920,000	580	3.2 U	3.0 U	2,200,000	2,300,000	18	2,300,000	140,000	4,100,000	52	3,600,000	4,600,000	2,900,000	6,400,000	17,000	39	1,700,000	4.7	2.6 U	1,200,000
PROPANE	57,000	21	8.0 U	7.6 U	180,000	190,000	7.4 U	200,000	13,000	310,000	34	110,000	160,000	72,000	34,000	750	7.2 U	310,000	7.5	6.6 U	120,000
PROPYLENE	2,100 U	7.0 U	8.0 U	7.6 U	3,900 U	3,900 U	7.4 U	4,400 U	450	6,600 U	36	3,500 U	8,200 U	5,400 U	10,000 U	27 U	7.2 U	6,400	6.7 U	6.6 U	5,300 U
TRANS-2-BUTENE	180,000	44	3.2 U	3.0 U	310,000	330,000	4.8	360,000	36,000	160,000	3.6	1,900	3,300 U	3,400	1,100,000	610	13	320,000	2.7 U	2.6 U	270,000
Analytical Method TO15	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1,2,4-TRIMETHYLBENZENE	15,000 U	28 U	0.80 U	0.76 U	31,000 U	31,000 U	0.74 U	330,000 U	14,000 U	55,000 U	83	46,000 U	41,000 U	34,000 U	1,300,000 U	1,600	720	15,000 U	3.4	8.6	22,000 U
1,3,5-TRIMETHYLBENZENE	15,000 U	28 U	0.80 U	0.76 U	31,000 U	31,000 U	0.74 U	330,000 U	14,000 U	55,000 U	16	46,000 U	41,000 U	34,000 U	1,300,000 U	1,100	350	15,000 U	1.5	4.2	22,000 U
1,3-BUTADIENE	15,000 U	28 U	0.80 U	0.76 U	31,000 U	31,000 U	0.74 U	330,000 U	14,000 U	55,000 U	0.80 U	46,000 U	41,000 U	34,000 U	1,300,000 U	900 U	12 U	15,000 U	0.67 U	0.66 U	22,000 U
BENZENE	30,000	28 U	0.80 U	0.76 U	38,000	38,000	2.5	1,300,000	170,000	55,000 U	9.7	46,000 U	41,000 U	34,000 U	6,300,000	2,100	830	15,000 U	4.3	16	140,000
ETHYL BENZENE	15,000 U	28 U	0.80 U	0.76 U	31,000 U	31,000 U	0.74 U	330,000 U	36,000	55,000 U	78	46,000 U	41,000 U	34,000 U	1,300,000 U	4,000	1,100	15,000 U	3.8	11	22,000 U
HEXANE	550,000	880	0.80 U	0.89	980,000	1,000,000	3.0 U	22,000,000	1,200,000	1,900,000	12	130,000	41,000 U	34,000 U	26,000,000	53,000	1,900	320,000	1.3	4	400,000
ISOPENTANE	4,300,000	6,500	0.83	7.90	8,900,000	9,300,000	7.7	120,000,000	2,400,000	13,000,000	40	13,000,000	15,000,000	7,000,000	380,000,000	280,000	1,600	5,400,000	4.1	14	6,400,000
M,P-XYLENE	15,000 U	28 U	0.80 U	0.76 U	31,000 U	31,000 U	1.7	330,000 U	100,000	55,000 U	81	46,000 U	41,000 U	34,000 U	1,300,000 U	8,000	3,300	15,000 U	9.3	25	24,000
O-XYLENE	15,000 U	28 U	0.80 U	0.76 U	31,000 U	31,000 U	0.74 U	330,000 U	22,000	55,000 U	18	46,000 U	41,000 U	34,000 U	1,300,000 U	900 U	1,000	15,000 U	2.6	6.8	22,000 U
TOLUENE	15,000 U	28 U	0.80 U	1.10	31,000 U	31,000 U	3.9	560,000	100,000	55,000 U	22	46,000 U	41,000 U	34,000 U	1,600,000	1,400	650	15,000 U	7.1	21.0	48,000
Analytical Method TO15 (rerun)	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
BENZENE	-	-	-	-	-	-	-	-	-	6,100	-	3,000 U	7,400	7,600	-	-	-	2,400	-	-	-
ETHYL BENZENE	-	-	-	-	-	-	-	-	-	20,000	-	3,000 U	160 U	3,000 U	-	-	-	1,500 U	-	-	-
M,P-XYLENE	-	-	-	-	-	-	-	-	-	16,000	-	3,000 U	160 U	3,000 U	-	-	-	1,500 U	-	-	-
O-XYLENE	-	-	-	-	-	-	-	-	-	3,700 U	-	3,000 U	160 U	3,000 U	-	-	-	1,500 U	-	-	-
TOLUENE	-	-	-	-	-	-	-	-	-	3,700 U	-	3,000 U	550	3,000 U	-	-	-	1,500 U	-	-	-

Notes:
%-Result is reported as a percent
U-compound was analyzed for but not detected above the reporting limit
J-Estimated value, analyte detected below reporting limit
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-5A
Active Soil Vapor Analytical Results - MP (ppbv)
January-March 2005

Hartford Working Group
Hartford, Illinois

Location ID	MP-32	MP-32	MP-32	MP-33	MP-33	MP-33	MP-33	MP-33	MP-33	MP-34	MP-34	MP-34	MP-34	MP-35	MP-35	MP-35	MP-35	MP-36	MP-36	MP-36
Point ID	MP-32A	MP-32B	MP-32C	MP-33A	MP-33B	MP-33B	MP-33C	MP-33C	MP-33D	MP-34A	MP-34B	MP-34C	MP-34C	MP-35A	MP-35B	MP-35C	MP-35D	MP-36A	MP-36A	MP-36B
Sample Date	1/12/2005	1/12/2005	1/12/2005	1/12/2005	1/12/2005	3/11/2005	1/12/2005	3/11/2005	1/26/2005	1/26/2005	1/26/2005	1/26/2005	1/26/2005	1/26/2005	1/26/2005	1/26/2005	1/26/2005	1/26/2005	1/28/2005	1/26/2005
Sample ID	011205-MP-32A	011205-MP-32B	011205-MP-32C	011205-MP-33A	011205-MP-33B	031105 MP-33B	011205-MP-33C	031105 MP-33C	012605-MP-33D	012605-MP-34A	012605-MP-34B	012605-MP-34C	012605-MP-34C-D	012605-MP-35A	012605-MP-35B	012605-MP-35C	012605-MP-35D	012605-MP-36A	012805-MP-36A	012605-MP-36B
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method D1946	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
CARBON DIOXIDE	5.90	15.00	2.20	0.16	1.7	1.3	5.4	10	23	1.2	14	0.039	0.04	0.61	2.3	12	16	12	12	12
METHANE	0.0087	2	15.00	0.00016 U	0.00016 U	0.00017	0.1	0.17	1.3	0.00053	0.22	0.00022 U	0.00022 U	0.00014 U	0.0048	0.65	16	0.019	0.013	0.023
METHANE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OXYGEN	4.2	1.1	16	21	18	17	12	1.9	15	11	1.3	22	22	18	12	4.8	0.98	1.2	1.70	1.20
Analytical Method TO14	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1-BUTENE	6.8	44,000	26,000	3.3 U	3.3 U	120	32	83	21,000	4.5 U	35	4.3 U	4.5 U	2.7 U	4.4	3,500	120,000	750	520	2,200
ACETYLENE	9.2 U	1,200 U	2,800 U	8.2 U	8.2 U	8.0 U	8.8 U	7.8 U	320 U	11 U	7.0 U	11 U	11 U	6.8 U	6.7 U	58 U	2,100 U	42 U	35 U	94 U
BUTANE	430	2,300,000	5,200,000	12	8.2 U	2,200	5,700	5,800	540,000	72	1,600	120	17	8.8	200	100,000	3,200,000	80,000	55,000	180,000
CIS-2-BUTENE	8.1	94,000	75,000	3.3 U	3.3 U	200	72	130	58,000	4.5 U	74	4.3 U	4.5 U	2.7 U	13	6,600	270,000	1,700	1,100	38 U
ETHANE	930	170,000	530,000	9.8	60	54	1,000	2,200	44,000	14	2,100	11 U	11 U	20	190	11,000	170,000	8,700	6,200	14,000
ETHENE	34	31,000	6,100	8.2 U	8.2 U	8.0 U	270	480	1,000	11 U	230	11 U	11 U	6.8 U	6.7 U	1,300	9,800	630	430	1,300
ISOBUTANE	440	900,000	1,500,000	7	3.3 U	520	2,800	3,200	140,000	22	540	33	5	5.6	69	31,000	920,000	20,000	15,000	34,000
PROPANE	170	270,000	450,000	8.2 U	8.2 U	52	560	830	39,000	11 U	140	11 U	11 U	6.8 U	28	5,300	180,000	1,300	940	2,200
PROPYLENE	9.2 U	4,200	2,800 U	8.2 U	8.2 U	8.0 U	170	240	530	11 U	120	11 U	11 U	6.8 U	6.7 U	440	5,200	62	47	94 U
TRANS-2-BUTENE	11	120,000	110,000	3.3 U	3.3 U	270	95	160	57,000	4.5 U	90	4.3 U	4.5 U	2.7 U	16	8,100	310,000	2,700	1,700	8,300
Analytical Method TO15	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1,2,4-TRIMETHYLBENZENE	45	5,100 U	14,000 U	15	18	9.5	780	46	2,400	1.2	22,000	1.1 U	1.1 U	0.68 U	0.7	7,300	28,000 U	3,400 U	2,700 U	14,000 U
1,3,5-TRIMETHYLBENZENE	13	5,100 U	14,000 U	4.5	5	6.4 U	17,000	2,000	2,200 U	16	15,000	1.1 U	1.1 U	1.5	4.5	9,200	28,000 U	3,400 U	2,700 U	14,000 U
1,3-BUTADIENE	0.92 U	5,100 U	14,000 U	0.82 U	0.82 U	6.4 U	88 U	24 U	2,200 U	1.1 U	700 U	1.1 U	1.1 U	0.68 U	0.67 U	670 U	28,000 U	3,400 U	2,700 U	14,000 U
BENZENE	67	460,000	55,000	4.5	3.3	73	88 U	45	95,000	1.1 U	1,700	1.1 U	1.1 U	0.68 U	1.7	860	720,000	3,400 U	2,700 U	130,000
ETHYL BENZENE	34	27,000	14,000 U	4.4	4.1	18	88 U	24 U	5,500	1.1 U	10,000	1.1 U	1.1 U	0.68 U	0.67 U	990	28,000 U	3,400 U	2,700 U	17,000
HEXANE	82	1,500,000	340,000	6	3.8	380	3,000	1,000	120,000	1.1 U	15,000	1.1 U	1.1 U	0.68 U	2	7,000	2,000,000	340,000	210,000	2,200,000
ISOPENTANE	240	1,200,000	3,400,000	23	10	1,900	13,000	5,300	570,000	3.1	4,600	1.7	1.7	1.7	9.8	110,000	7,400,000	1,100,000	860,000	2,900,000
M,P-XYLENE	140	100,000	23,000	19	18	72	120	110	22,000	1.2	280,000	1.1 U	1.1 U	2.3	3	160,000	82,000	3,400 U	2,700 U	41,000
O-XYLENE	49	28,000	14,000 U	7.6	7.8	22	970	270	6,500	8.7	100,000	1.1 U	1.1 U	1.5	3	90,000	28,000 U	3,400 U	2,700 U	14,000 U
TOLUENE	220	750,000	66,000	14	12	200	88 U	38	50,000	1.1 U	13,000	1.1 U	1.1 U	1.1	2.8	7,500	470,000	3,400 U	2,700 U	24,000
Analytical Method TO15 (rerun)	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
BENZENE	-	-	-	-	-	-	60	-	-	-	-	-	-	-	-	-	-	550	760	-
ETHYL BENZENE	-	-	-	-	-	-	35 U	-	-	-	-	-	-	-	-	-	-	140 U	270 U	-
M,P-XYLENE	-	-	-	-	-	-	120	-	-	-	-	-	-	-	-	-	-	140 U	270 U	-
O-XYLENE	-	-	-	-	-	-	1,000	-	-	-	-	-	-	-	-	-	-	140 U	270 U	-
TOLUENE	-	-	-	-	-	-	35 U	-	-	-	-	-	-	-	-	-	-	140 U	270 U	-

Notes:
%-Result is reported as a percent
U-compound was analyzed for but not detected above the reporting limit
J-Estimated value, analyte detected below reporting limit
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-5A
Active Soil Vapor Analytical Results - MP (ppbv)
January-March 2005

Hartford Working Group
Hartford, Illinois

Location ID	MP-36	MP-36	MP-36	MP-37	MP-37	MP-37	MP-37	MP-37	MP-38	MP-38	MP-38	MP-39	MP-39	MP-39	MP-40	MP-40	MP-40	MP-41	MP-41	MP-41
Point ID	MP-36B	MP-36C	MP-36C	MP-37A	MP-37B	MP-37C	MP-37C	MP-37D	MP-38A	MP-38B	MP-38C	MP-39A	MP-39B	MP-39C	MP-40A	MP-40B	MP-40C	MP-41A	MP-41B	MP-41C
Sample Date	1/28/2005	1/26/2005	1/28/2005	2/21/2005	2/21/2005	2/21/2005	2/21/2005	2/21/2005	2/21/2005	2/21/2005	2/21/2005	1/12/2005	1/12/2005	1/12/2005	1/17/2005	1/17/2005	2/21/2005	2/21/2005	2/21/2005	2/22/2005
Sample ID	012805-MP-36B	012605-MP-36C	012805-MP-36C	022105-MP-37A	022105-MP-37B	022105-MP-37C DUP	022105-MP-37C	022105-MP-37D	022105-MP-38A	022105-MP-38B	022105-MP-38C	011205-MP-39A	011205-MP-39B	011205-MP-39C	011705-MP-40A	011705-MP-40B	022105-MP-40C	022105-MP-41A	022105-MP-41B	022205-MP-41C
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method D1946	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
CARBON DIOXIDE	8.6	0.054	1.5	14	19	0.038	0.04	6.60	6.70	0.8	7.1	4.8	0.15	10	4.4	8.8	20	0.039	8.3	0.04
METHANE	0.018	0.058	5.1	5.4	12	0.00023	0.00025	20	13	0.32	0.34	0.00016 U	0.00024	2.9	0.015	8.10	5	0.00022	1.2	0.00026
METHANE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OXYGEN	6.4	22	18	1.3	1	21	21	9.2	8.1	20	5.8	16	20	1.1	14	7.7	15	21	3.8	21
Analytical Method TO14	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1-BUTENE	1,600	3,000	280,000	10,000	18,000	2.9 U	4.4	730,000	500,000	20,000	290	12	38	1,200,000	260	120,000	170,000	3.0 U	19,000	42
ACETYLENE	70 U	64 U	6,700 U	1,000 U	1,600 U	7.3 U	7.0 U	28,000 U	15,000 U	780 U	300 U	8.0 U	7.6 U	29,000 U	19 U	11,000 U	1,200 U	7.4 U	790 U	9.2 U
BUTANE	130,000	120,000	12,000,000	1,300,000	2,600,000	65	210	34,000,000	23,000,000	1,500,000	440,000	440	1,900	53,000,000	27,000	22,000,000	2,200,000	18	1,200,000	970
CIS-2-BUTENE	4,900	8,300	670,000	44,000	55,000	3.5	11	2,000,000	1,300,000	52,000	380	35	96	2,900,000	580	180,000	390,000	3.0 U	68,000	130
ETHANE	10,000	880	95,000	62,000	150,000	8.5	12	280,000	670,000	5,700	2,900	8.0 U	21	260,000	520	340,000	220,000	7.8	23,000	9.2 U
ETHENE	1,000	120	12,000	2,700	3,500	7.3 U	7.0 U	28,000 U	89,000	1,000	300 U	8.0 U	180	380,000	39	12,000	30,000	7.4 U	3,500	9.2 U
ISOBUTANE	25,000	28,000	3,100,000	440,000	1,100,000	16.0	67	6,100,000	5,800,000	380,000	210,000	87	500	15,000,000	7,000	7,100,000	570,000	4.6	170,000	140
PROPANE	1,600	2,800	330,000	43,000	180,000	7.3 U	9.5	540,000	720,000	19,000	8,400	11	33	1,400,000	910	710,000	220,000	7.4 U	11,000	9.2 U
PROPYLENE	98	64 U	7,100	1,000 U	1,600 U	7.3 U	7.0 U	28,000 U	15,000 U	780 U	300 U	8.0 U	10	29,000 U	19 U	11,000 U	8,400	7.4 U	790 U	9.2 U
TRANS-2-BUTENE	6,200	9,600	800,000	74,000	96,000	4.3	14	2,300,000	1,700,000	71,000	1,100	41	100	3,500,000	1,300	510,000	390,000	3.0 U	89,000	140
Analytical Method TO15	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1,2,4-TRIMETHYLBENZENE	7,400 U	640	45,000 U	7,600 U	23,000 U	0.73 U	0.70 U	110,000 U	150,000 U	10,000 U	6,000 U	270	81	150,000 U	28 U	72,000 U	9,400 U	4.2	54,000 U	260
1,3,5-TRIMETHYLBENZENE	7,400 U	480 U	45,000 U	7,600 U	23,000 U	0.73 U	0.70 U	110,000 U	150,000 U	10,000 U	6,000 U	81	460	150,000 U	28 U	72,000 U	9,400 U	3.4	54,000 U	96
1,3-BUTADIENE	7,400 U	480 U	45,000 U	7,600 U	23,000 U	0.73 U	0.70 U	110,000 U	150,000 U	10,000 U	6,000 U	2.1 U	15 U	150,000 U	28 U	72,000 U	9,400 U	0.74 U	54,000 U	12 U
BENZENE	96,000	11,000	250,000	100,000	620,000	1.6	1.9	690,000	400,000	10,000 U	6,000 U	100	420	740,000	81	72,000 U	9,600	5.8	1,300,000	710
ETHYL BENZENE	23,000	1,500	45,000 U	57,000	34,000	0.73 U	0.70 U	110,000 U	150,000 U	10,000 U	6,000 U	87	58	150,000 U	28 U	72,000 U	9,400 U	6	54,000 U	190
HEXANE	1,700,000	24,000	610,000	820,000	2,400,000	4.5	5	2,200,000	2,100,000	170,000	49,000	180	490	2,200,000	220	1,100,000	300,000	63	6,200,000	1,200
ISOPENTANE	2,100,000	130,000	8,900,000	2,200,000 J	4,800,000 J	43 J	44 J	32,000,000 J	26,000,000 J	2,100,000 J	1,400,000	550	4,100	35,000,000	7,300	15,000,000	2,200,000 J	40 J	10,000,000 J	3,200
M,P-XYLENE	61,000	8,100	48,000	180,000	130,000	0.94	0.82	110,000 U	150,000 U	10,000 U	6,000 U	370	460	150,000 U	28 U	72,000 U	9,400 U	28	650,000	1,700
O-XYLENE	13,000	2,600	45,000 U	46,000	30,000	0.73 U	0.70 U	110,000 U	150,000 U	10,000 U	6,000 U	160	230	150,000 U	28 U	72,000 U	9,400 U	10	170,000	610
TOLUENE	19,000	19,000	210,000	53,000	300,000	1.7	1.6	550,000	160,000	10,000 U	6,000 U	280	420	440,000	28 U	72,000 U	9,400 U	19	760,000	1,700
Analytical Method TO15 (rerun)	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
BENZENE	-	-	-	-	-	-	-	-	-	6,200	6.0 U	-	-	-	-	5,700	-	-	-	-
ETHYL BENZENE	-	-	-	-	-	-	-	-	-	330	6.0 U	-	-	-	-	2,400 U	-	-	-	-
M,P-XYLENE	-	-	-	-	-	-	-	-	-	2,300	220	-	-	-	-	2,400 U	-	-	-	-
O-XYLENE	-	-	-	-	-	-	-	-	-	260	79	-	-	-	-	2,400 U	-	-	-	-
TOLUENE	-	-	-	-	-	-	-	-	-	700	190	-	-	-	-	2,500	-	-	-	-

Notes:
%-Result is reported as a percent
U-compound was analyzed for but not detected above the reporting limit
J-Estimated value, analyte detected below reporting limit
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-5A
Active Soil Vapor Analytical Results - MP (ppbv)
January-March 2005

Hartford Working Group
Hartford, Illinois

Location ID	MP-42	MP-42	MP-42	MP-42	MP-43	MP-43	MP-43	MP-44	MP-44	MP-44	MP-44	MP-45	MP-45	MP-45	MP-46	MP-46	MP-46	MP-47	MP-47	MP-47
Point ID	MP-42A	MP-42A	MP-42B	MP-42C	MP-43A	MP-43B	MP-43C	MP-44A	MP-44B	MP-44C	MP-44D	MP-45A	MP-45B	MP-45C	MP-46A	MP-46B	MP-46C	MP-47A	MP-47B	MP-47C
Sample Date	1/20/2005	1/20/2005	1/20/2005	1/27/2005	1/11/2005	1/11/2005	2/22/2005	1/27/2005	1/27/2005	1/27/2005	1/27/2005	1/27/2005	1/27/2005	1/27/2005	1/27/2005	1/27/2005	1/27/2005	1/27/2005	1/27/2005	1/27/2005
Sample ID	012005-MP-42A	012005-MP-42A-Dup	012005-MP-42B	012705-MP-42C	011105-MP43A	011105-MP43B	022205-MP-43C	012705-MP-44A	012705-MP-44B	012705-MP-44C	012705-MP-44D	012705-MP-45A	012705-MP-45B	012705-MP-45C	012705-MP-46A	012705-MP-46B	012705-MP-46C	012705-MP-47A	012705-MP-47B	012705-MP-47C
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method D1946	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
CARBON DIOXIDE	6	6.1	0.041	4.9	0.6	0.54	15	0.56	2.1	12	0.04	3.7	17	7.2	1	11	15	2.2	15	13
METHANE	0.38	0.38	0.00022	18	0.021	0.021	0.47	0.14	0.056	2	0.00023	0.0013	0.76	32	0.005	0.53	4.50	5.9	22	20
METHANE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OXYGEN	6.8	6.4	21	10	17	17	1.8	3.4	1.5	1.3	22	3.6	1.2	8.3	13	1.8	1.4	7.2	1.4	2.1
Analytical Method TO14	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1-BUTENE	790	800	3.0 U	740,000	3.2 U	4.8 U	23,000	1,500	1,200	84,000	13	2.9 U	21,000	490,000	3.0 U	44,000	360,000	54,000	260,000	1,300,000
ACETYLENE	86 U	86 U	7.4 U	18,000 U	7.9 U	12 U	730 U	27 U	35 U	1,400 U	7.2 U	7.2 U	380 U	7,400 U	7.6 U	870 U	6,200 U	2,800 U	9,300 U	33,000 U
BUTANE	140,000	150,000	93	32,000,000	670	520	1,200,000	54,000	69,000	2,600,000	200	43	730,000	13,000,000	7.6 U	1,600,000	12,000,000	5,000,000	16,000,000	60,000,000
CIS-2-BUTENE	2,800	2,800	3.0 U	1,700,000	3.2 U	4.8 U	67,000	1,600	1,200	140,000	28	3.5	43,000	870,000	3.0 U	83,000	900,000	74,000	440,000	3,200,000
ETHANE	3,800	3,800	10	350,000	280	290	19,000	690	3,100	61,000	17	7.2 U	27,000	730,000	25	21,000	140,000	68,000	250,000	310,000
ETHENE	86 U	86 U	7.4 U	70,000	7.9 U	12 U	4,200	27 U	1,100	2,500	8.1	8.8	5,000	29,000	7.6 U	1,100	9,100	5,600	30,000	61,000
ISOBUTANE	60,000	61,000	42	7,500,000	960	830	250,000	16,000	24,000	910,000	49	9.3	240,000	3,700,000	8.4	440,000	2,500,000	2,000,000	6,300,000	17,000,000
PROPANE	4,800	4,800	10	690,000	83	65	32,000	1,000	1,800	120,000	21	7.2 U	42,000	880,000	7.6 U	43,000	260,000	260,000	880,000	1,500,000
PROPYLENE	86 U	86 U	7.4 U	88,000	7.9 U	12 U	730 U	27 U	50	2,700	9.6	7.2 U	1,700	34,000	7.6 U	1,000	8,400	2,800 U	9,300 U	33,000 U
TRANS-2-BUTENE	3,900	3,900	4	2,100,000	3.2 U	4.8 U	82,000	3,100	2,300	210,000	32	3.7	59,000	1,100,000	3.0 U	110,000	1,000,000	140,000	670,000	4,000,000
Analytical Method TO15	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1,2,4-TRIMETHYLBENZENE	1,600 U	1,600 U	66	120,000 U	5.2 U	6.0 U	16,000	130 U	1,900	6,800 U	81	7.4	6,000 U	45,000 U	1.6	9,500 U	74,000 U	11,000 U	29,000 U	180,000 U
1,3,5-TRIMETHYLBENZENE	1,600 U	1,600 U	29	120,000 U	5.2 U	6.0 U	12,000	130 U	1,900	6,800 U	30	32	6,000 U	45,000 U	130	9,500 U	74,000 U	11,000 U	29,000 U	180,000 U
1,3-BUTADIENE	1,600 U	1,600 U	0.74 U	120,000 U	5.2 U	6.0 U	9,100 U	130 UJ	560 UJ	6,800 U	0.72 UJ	0.72 U	6,000 UJ	45,000 UJ	0.76 U	9,500 U	74,000 U	11,000 U	29,000 U	180,000 UJ
BENZENE	1,600 U	1,600 U	29	420,000	5.2 U	6.0 U	260,000	130 U	560 U	8,100	74	4.8	140,000	300,000	7.2	9,500 U	700,000	11,000 U	300,000	480,000
ETHYL BENZENE	1,600 U	1,600 U	18	120,000 U	5.2 U	6.0 U	32,000	130 U	3,000	24,000	44	2.9	23,000	45,000 U	0.76 U	9,500 U	74,000 U	11,000 U	29,000 U	180,000 U
HEXANE	30,000	33,000	15	1,200,000	5.2 U	6.0 U	720,000	1,700	8,500	37,000	64	2.6	870,000	1,200,000	12	140,000	1,800,000	380,000	860,000	1,900,000
ISOPENTANE	410,000	380,000	32	24,000,000	1,400	1,200	2,300,000	34,000	41,000	1,200,000	220	6.6	1,400,000	10,000,000	5.3	2,100,000	16,000,000	2,200,000	7,000,000	42,000,000
M,P-XYLENE	2,000	1,800	110	120,000 U	5.2 U	6.0 U	330,000	130 U	18,000	130,000	200	14	84,000	45,000	12	88,000	74,000 U	21,000	62,000	180,000 U
O-XYLENE	1,600 U	1,600 U	44	120,000 U	5.2 U	6.0 U	120,000	130 U	4,800	29,000	76	16	10,000	45,000 U	170	30,000	74,000 U	11,000 U	29,000 U	180,000 U
TOLUENE	1,600 U	1,600 U	29	370,000	5.2 U	6.0 U	610,000	130 U	2,500	26,000	180	17	93,000	180,000	12	9,500 U	340,000	11,000 U	560,000	180,000 U
Analytical Method TO15 (rerun)	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
BENZENE	920	950	-	-	-	-	-	21 U	230 U	-	-	-	-	-	-	7,700	-	9,100	-	-
ETHYL BENZENE	860	780	-	-	-	-	-	21 U	3,300	-	-	-	-	-	-	3,500	-	5,900	-	-
M,P-XYLENE	2,100	1,800	-	-	-	-	-	21 U	21,000	-	-	-	-	-	-	83,000	-	24,000	-	-
O-XYLENE	490	340	-	-	-	-	-	21 U	6,100	-	-	-	-	-	-	26,000	-	6,300	-	-
TOLUENE	390 U	320	-	-	-	-	-	21 U	760	-	-	-	-	-	-	4,500	-	10,000	-	-

Notes:
%-Result is reported as a percent
U-compound was analyzed for but not detected above the reporting limit
J-Estimated value, analyte detected below reporting limit
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-5A
Active Soil Vapor Analytical Results - MP (ppbv)
January-March 2005

Hartford Working Group
Hartford, Illinois

Location ID	MP-47	MP-48	MP-48	MP-48	MP-49	MP-49	MP-49	MP-50	MP-50	MP-50	MP-51	MP-51	MP-51	MP-51	MP-51	MP-52	MP-52	MP-52	MP-52	MP-52
Point ID	MP-47C	MP-48A	MP-48B	MP-48C	MP-49A	MP-49B	MP-49C	MP-50A	MP-50B	MP-50C	MP-51A	MP-51B	MP-51C	MP-51D	MP-51D	MP-52A	MP-52A	MP-52B	MP-52B	MP-52B
Sample Date	2/22/2005	1/28/2005	1/28/2005	1/28/2005	1/28/2005	1/28/2005	1/28/2005	1/27/2005	1/27/2005	1/27/2005	1/20/2005	1/20/2005	1/20/2005	1/27/2005	1/27/2005	1/11/2005	1/11/2005	1/11/2005	3/11/2005	3/11/2005
Sample ID	022205-MP-47C	012805-MP-48A	012805-MP-48B	012805-MP-48C	012805-MP-49A	012805-MP-49B	012805-MP-49C	012705-MP-50A	012705-MP-50B	012705-MP-50C	012005-MP-51A	012005-MP-51B	012005-MP-51C	012705-MP-51D-Dup	012705-MP-51D	011105-MP-52A DUP	011105-MP-52A	011105-MP-52B	031105 MP-52B	031105 MP-52B Dup
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method D1946	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
CARBON DIOXIDE	6.3	8.4	16	0.05	13	1.8	18	12	7	0.05	4.5	4.9	11	14	14	12	11	9.90	12	12
METHANE	7.3	0.0033	0.66	0.0017	0.048	0.14	9.5	0.75	5.2	0.017	0.00016 U	0.094	2.4	3.2	3.2	12	12	8.7	13	13
METHANE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OXYGEN	12	6.8	2.40	22	1.9	18	2.2	3	2.30	21	14	8	1.4	1.4	1.3	1.1	1.2	4.7	1	1.30
Analytical Method TO14	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1-BUTENE	750,000	8,100	890,000	160	340	3,900	6,000,000	13,000	2,300	1,200	10	630	600,000	1,200,000	1,400,000	1,300,000	1,300,000	1,500,000	3,600,000	3,600,000
ACETYLENE	21,000 U	270 U	16,000 U	9.0 U	460 U	720 U	80,000 U	620 U	2,100 U	13 U	8.2 U	37 U	10,000 U	17,000 U	17,000 U	32,000 U	36,000 U	22,000 U	39,000 U	39,000 U
BUTANE	34,000,000	600,000	27,000,000	7,000	860,000	1,300,000	130,000,000	1,300,000	4,200,000	26,000	330	66,000	17,000,000	34,000,000	33,000,000	53,000,000	56,000,000	38,000,000	74,000,000	72,000,000
CIS-2-BUTENE	1,800,000	17,000	1,700,000	360	580	19,000	7,800,000	17,000	2,700	2,500	28	810	1,200,000	2,800,000	2,800,000	1,100,000	1,200,000	2,400,000	5,000,000	4,800,000
ETHANE	170,000	980	80,000	56	4,800	8,000	600,000	38,000	100,000	450	21	4,000	150,000	240,000	590,000	610,000	660,000	480,000	930,000	930,000
ETHENE	31,000	270 U	35,000	22	460 U	730	280,000	8,200	2,100 U	49	8.2 U	250	35,000	70,000	250,000	160,000	170,000	170,000	400,000	390,000
ISOBUTANE	9,000,000	160,000	7,100,000	1,800	350,000	280,000	43,000,000	450,000	2,200,000	5,800	65	30,000	4,300,000	7,900,000	8,200,000	20,000,000	21,000,000	13,000,000	25,000,000	25,000,000
PROPANE	940,000	11,000	620,000	250	8,000	10,000	3,500,000	33,000	100,000	390	10	5,800	510,000	920,000	1,400,000	2,300,000	2,500,000	1,600,000	3,700,000	3,700,000
PROPYLENE	21,000 U	270 U	20,000	9.0 U	460 U	720 U	80,000	1,200	2,300	13 U	8.2 U	45	16,000	38,000	300,000	37,000	38,000	44,000	130,000	130,000
TRANS-2-BUTENE	2,300,000	26,000	2,000,000	440	1,500	49,000	11,000,000	27,000	4,600	3,100	34	1,500	1,400,000	3,200,000	3,300,000	2,200,000	2,300,000	3,300,000	7,000,000	6,800,000
Analytical Method TO15	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1,2,4-TRIMETHYLBENZENE	100,000 U	2,400 U	130,000 U	6,000	7,000 U	5,800 U	230,000 U	3,400 U	20,000 U	8,300	240	1,600	84,000 U	110,000 U	96,000 U	80,000 U	82,000 U	80,000 U	150,000 U	140,000 U
1,3,5-TRIMETHYLBENZENE	100,000 U	2,400 U	130,000 U	2,300	7,000 U	5,800 U	230,000 U	3,400 U	20,000 U	2,900	96	660	84,000 U	110,000 U	96,000 U	80,000 U	82,000 U	80,000 U	150,000 U	140,000 U
1,3-BUTADIENE	100,000 U	2,400 U	130,000 U	60 U	7,000 U	5,800 U	230,000 U	3,400 UJ	20,000 U	98 U	2.3 U	420 U	84,000 U	110,000 UJ	96,000 UJ	80,000 U	82,000 U	80,000 U	150,000 U	140,000 U
BENZENE	540,000	2,400 U	670,000	480	7,000 U	5,800 U	230,000 U	3,400 U	20,000 U	1,800	98	800	150,000	740,000	750,000	80,000 U	82,000 U	160,000	320,000	320,000
ETHYL BENZENE	100,000 U	2,400 U	130,000 U	1,000	7,000 U	5,800 U	230,000 U	3,400 U	20,000 U	3,700	160	3,300	84,000 U	110,000 U	96,000 U	80,000 U	82,000 U	80,000 U	150,000 U	140,000 U
HEXANE	1,600,000	52,000	1,700,000	3,000	10,000	41,000	1,200,000	46,000	20,000 U	4,300	220	57,000	1,500,000	1,800,000	1,900,000	1,300,000	1,400,000	1,400,000	2,400,000	2,400,000
ISOPENTANE	26,000,000	680,000	26,000,000	8,400	1,400,000	1,100,000	45,000,000	1,000,000	4,500,000	25,000	570	75,000	16,000,000	28,000,000	30,000,000	22,000,000	23,000,000	21,000,000	39,000,000	39,000,000
M,P-XYLENE	100,000 U	2,400 U	130,000 U	17,000	7,000 U	5,800 U	230,000 U	3,400 U	20,000 U	16,000	670	12,000	84,000 U	110,000 U	96,000 U	80,000 U	82,000 U	80,000 U	150,000 U	140,000 U
O-XYLENE	100,000 U	2,400 U	130,000 U	6,100	7,000 U	5,800 U	230,000 U	3,400 U	20,000 U	6,100	220	3,100	84,000 U	110,000 U	96,000 U	80,000 U	82,000 U	80,000 U	150,000 U	140,000 U
TOLUENE	360,000	2,400 U	230,000	2,200	7,000 U	5,800 U	230,000 U	3,400 U	20,000 U	11,000	350	5,500	230,000	270,000	260,000	80,000 U	82,000 U	130,000	260,000	280,000
Analytical Method TO15 (rerun)	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
BENZENE	-	440	-	-	140 U	1,600	74,000	240 U	3,200	-	-	-	-	-	-	27,000	36,000	-	-	-
ETHYL BENZENE	-	240 U	-	-	140 U	580 U	23,000 U	240 U	230 U	-	-	-	-	-	-	16,000 U	12,000	-	-	-
M,P-XYLENE	-	1,200	-	-	170	2,600	23,000 U	240 U	600	-	-	-	-	-	-	16,000 U	33,000	-	-	-
O-XYLENE	-	3,600	-	-	140 U	1,100	23,000 U	240 U	510	-	-	-	-	-	-	16,000 U	8,000	-	-	-
TOLUENE	-	240 U	-	-	140 U	910	25,000	240 U	230 U	-	-	-	-	-	-	16,000 U	18,000	-	-	-

Notes:
%-Result is reported as a percent
U-compound was analyzed for but not detected above the reporting limit
J-Estimated value, analyte detected below reporting limit
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-5A
Active Soil Vapor Analytical Results - MP (ppbv)
January-March 2005

Hartford Working Group
Hartford, Illinois

Location ID	MP-52	MP-53	MP-53	MP-53	MP-54	MP-54	MP-54	MP-55	MP-55	MP-55	MP-56	MP-56	MP-56	MP-57	MP-57	MP-57	MP-58	MP-58	MP-58	MP-59
Point ID	MP-52C	MP-53A	MP-53B	MP-53C	MP-54A	MP-54B	MP-54C	MP-55A	MP-55B	MP-55C	MP-56A	MP-56B	MP-56C	MP-57A	MP-57B	MP-57C	MP-58A	MP-58B	MP-58C	MP-59A
Sample Date	1/27/2005	1/12/2005	1/12/2005	1/27/2005	1/10/2005	1/10/2005	1/27/2005	1/10/2005	1/10/2005	1/27/2005	1/10/2005	1/10/2005	1/27/2005	1/10/2005	1/10/2005	1/27/2005	1/19/2005	1/19/2005	1/19/2005	1/11/2005
Sample ID	012705-MP-52C	011105-MP-53A	011105-MP-53B	012705-MP-53C	011005-MP-54A	011005-MP-54B	012705-MP-54C	011005-MP-55A	011005-MP-55B	012705-MP-55C	011005-MP-56A	011005-MP-56B	012705-MP-56C	011005-MP-57A	011005-MP-57B	012705-MP-57C	011905-MP-58A	011905-MP-58B	011905-MP-58C	011105-MP-59A
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method D1946	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
CARBON DIOXIDE	0.23	3.80	8.2	5.4	0.96	9.8	0.042	18	15	9.9	0.73	14	2	12	0.27	0.18	7.7	16	14	1.7
METHANE	0.36	0.00046	0.49	8.7	0.0005	1.40	0.00059	25	26	36	0.00048	18	8.1	2.8	0.32	0.14	0.024	0.11	2.8	0.00016 U
METHANE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OXYGEN	21	12	7.3	13	9.6	1.7	22	0.97	1.1	6.1	20	2.7	18	9.6	21	21	5.5	1.9	1.5	7.1
Analytical Method TO14	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1-BUTENE	110,000	74	12,000	1,200,000	4.4 U	6,900	25	840,000	1,400,000	1,500,000	420	710,000	300,000	64,000	14,000	29,000	45	1,900	65,000	3.2 U
ACETYLENE	960 U	12 U	200 U	13,000 U	11 U	220 U	7.6 U	21,000 U	30,000 U	30,000 U	11 U	18,000 U	5,200 U	1,600 U	270 U	540 U	7.4 U	100 U	2,400 U	8.0 U
BUTANE	1,800,000	1,900	400,000	23,000,000	60	460,000	750	35,000,000	54,000,000	54,000,000	22,000	33,000,000	9,500,000	3,200,000	590,000	1,000,000	6,500	170,000	4,100,000	96
CIS-2-BUTENE	170,000	160	32,000	2,200,000	6.5	10,000	60	1,500,000	2,800,000	3,100,000	940	1,500,000	620,000	160,000	33,000	58,000	160	8,400	220,000	10
ETHANE	21,000	23	18,000	390,000	16	33,000	14	640,000	860,000	860,000	110	910,000	400,000	140,000	14,000	10,000	780	9,800	120,000	8.0 U
ETHENE	10,000	12 U	4,700	80,000	11 U	2,200	7.6 U	45,000	140,000	160,000	80	54,000	28,000	28,000	7,100	8,000	120	2,500	22,000	8.0 U
ISOBUTANE	560,000	450	78,000	6,100,000	26	220,000	190	14,000,000	20,000,000	18,000,000	5,500	10,000,000	3,200,000	1,300,000	180,000	340,000	1,900	34,000	980,000	15
PROPANE	68,000	50	9,800	680,000	11 U	62,000	33	1,600,000	2,600,000	2,400,000	240	1,700,000	820,000	230,000	36,000	50,000	150	3,100	100,000	8.0 U
PROPYLENE	3,900	12 U	320	47,000	11 U	600	7.6 U	35,000	66,000	70,000	29	18,000 U	18,000	2,800	560	800	8	100 U	2,400 U	8.0 U
TRANS-2-BUTENE	210,000	220	36,000	2,600,000	6.8	16,000	71	2,000,000	3,600,000	3,900,000	1,100	2,100,000	800,000	190,000	40,000	72,000	220	9,700	260,000	12
Analytical Method TO15	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1,2,4-TRIMETHYLBENZENE	5,400 U	100	8,000 U	54,000 U	160	2,200	1,600	58,000 U	120,000 U	140,000	490 U	130,000 U	23,000 U	9,900 U	1,300 U	3,400	250 U	3,100 U	30,000 U	34
1,3,5-TRIMETHYLBENZENE	5,400 U	72	8,000 U	54,000 U	130	2,800	610	58,000 U	120,000 U	130,000 U	490 U	130,000 U	23,000 U	9,900 U	1,300 U	2,400 U	250 U	3,100 U	30,000 U	16
1,3-BUTADIENE	5,400 U	9.5 U	8,000 U	54,000 U	4.4 U	920 U	7.6 U	58,000 U	120,000 U	130,000 U	490 U	130,000 U	23,000 U	9,900 U	1,300 U	2,400 U	250 U	3,100 U	30,000 U	1.6 U
BENZENE	28,000	890	100,000	210,000	170	15,000	300	200,000	510,000	690,000	2,400	240,000	140,000	27,000	23,000	15,000	250 U	270,000	740,000	130
ETHYL BENZENE	13,000	290	8,000 U	54,000 U	160	3,800	520	58,000 U	120,000 U	130,000 U	490 U	130,000 U	23,000 U	28,000	1,500	2,400 U	250 U	25,000	30,000 U	54
HEXANE	52,000	1,000	990,000	500,000	83	69,000	300	930,000	1,300,000	1,700,000	4,100	1,900,000	390,000	220,000	56,000	32,000	22,000	700,000	1,700,000	140
ISOPENTANE	960,000	1,900	2,000,000	10,000,000	75	260,000	940	11,000,000	21,000,000	36,000,000	100,000	26,000,000	6,500,000	2,500,000	360,000	590,000	53,000	850,000	7,800,000	180
M,P-XYLENE	42,000	1,100	20,000	54,000 U	880	33,000	2,600	58,000 U	120,000 U	130,000 U	710	130,000 U	29,000	68,000	6,900	11,000	250 U	110,000	40,000	220
O-XYLENE	13,000	380	8,000 U	54,000 U	240	5,100	1,100	58,000 U	120,000 U	130,000 U	490 U	130,000 U	23,000 U	21,000	2,000	4,000	250 U	31,000	30,000 U	70
TOLUENE	63,000	2,300	100,000	120,000	640	3,400	900	160,000	220,000	260,000	2,000	130,000 U	110,000	61,000	33,000	18,000	250 U	380,000	320,000	320
Analytical Method TO15 (rerun)	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
BENZENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	130	-	-	-
ETHYL BENZENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50 U	-	-	-
M,P-XYLENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	-	-	-
O-XYLENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	66	-	-	-
TOLUENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	150	-	-	-

Notes:
%-Result is reported as a percent
U-compound was analyzed for but not detected above the reporting limit
J-Estimated value, analyte detected below reporting limit
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-5A
Active Soil Vapor Analytical Results - MP (ppbv)
January-March 2005

Hartford Working Group
Hartford, Illinois

Location ID	MP-59	MP-59	MP-59	MP-60	MP-60	MP-60	MP-60	MP-60	MP-60	MP-61	MP-61	MP-61	MP-61	MP-61	MP-62	MP-62	MP-62	MP-62	MP-62	MP-62
Point ID	MP-59A	MP-59B	MP-59C	MP-60A	MP-60A	MP-60B	MP-60B	MP-60C	MP-60C	MP-61A	MP-61A	MP-61B	MP-61B	MP-61C	MP-62A	MP-62A	MP-62A	MP-62B	MP-62B	MP-62B
Sample Date	1/19/2005	1/19/2005	1/19/2005	1/12/2005	1/19/2005	1/12/2005	1/19/2005	1/12/2005	1/19/2005	1/11/2005	1/19/2005	1/11/2005	1/19/2005	1/19/2005	1/12/2005	1/12/2005	1/19/2005	1/12/2005	1/19/2005	1/19/2005
Sample ID	011905-MP-59A	011905-MP-59B	011905-MP-59C	011205-MP60A	011905-MP-60A	011205-MP60B	011905-MP-60B	011205-MP60C	011905-MP-60C	011105-MP-61A	011905-MP-61A	011105-MP-61B	011905-MP-61B	011905-MP-61C	011205-MP62A	011205-MP62A DUP	011905-MP-62A	011205-MP62B	011905-MP-62B	011905-MP-62B-DUP
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method D1946	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
CARBON DIOXIDE	1.5	10	9.5	4.7	4.6	11	11	10	11	2.1	1.7	7.4	5	3.7	3.3	3.4	3.1	6.4	5.9	5.9
METHANE	0.021	1.8	3.4	0.00025 U	0.00024 U	2.3	2.3	9.4	6.9	0.00015 U	0.00016 U	0.6	0.58	0.37	0.00024 U	0.00024 U	0.00025 U	0.80	0.81	0.82
METHANE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OXYGEN	12	1.8	1.3	13	14	1	1.6	0.69	0.92	16	18	2.6	7.7	19	14	14	17	1.4	1.6	1.5
Analytical Method TO14	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1-BUTENE	7.3	8,400	83,000	4.9 U	10	900,000	940,000	1,300,000	1,200,000	7.10	3.1 U	3.1 U	6.2	4.5 U	4.8 U	4.8 U	4.9 U	160 U	140 U	160 U
ACETYLENE	7.8 U	1,500 U	5,000 U	12 U	12 U	26,000 U	26,000 U	34,000 U	33,000 U	7.6 U	7.8 U	7.8 U	7.4 U	11 U	12 U	12 U	12 U	400 U	340 U	400 U
BUTANE	12,000	2,700,000	8,500,000	30	480	45,000,000	47,000,000	56,000,000	57,000,000	350	33	350	160	720	39	33	47	820,000	630,000	660,000.00
CIS-2-BUTENE	20	48,000	370,000	4.9 U	31	2,200,000	2,300,000	3,000,000	3,000,000	25	3.1 U	3.1 U	12	4.5 U	4.8 U	4.8 U	4.9 U	260	140	160 U
ETHANE	430	48,000	97,000	120	25	240,000	250,000	570,000	420,000	20	17	2,900	2,700	1,900	12 U	12 U	12 U	8,600	7,700	8,000
ETHENE	7.8 U	1,500 U	6,200	12 U	12 U	49,000	52,000	97,000	70,000	7.6 U	7.8 U	130	11	12	12 U	12 U	12 U	400 U	340 U	400 U
ISOBUTANE	3,600	580,000	1,600,000	11	110	12,000,000	13,000,000	17,000,000	16,000,000	64	12	700	310	1,600	6.7	4.8 U	13	360,000	320,000	340,000
PROPANE	120	18,000	53,000	19	12 U	1,200,000	1,300,000	2,000,000	1,700,000	8.4	7.8 U	17	9.5	18	12 U	12 U	12 U	6,900	5,400	5,500
PROPYLENE	7.8 U	1,500 U	5,000 U	12 U	12 U	26,000 U	26,000 U	34,000 U	33,000 U	7.6 U	7.8 U	7.8 U	7.4 U	11 U	12 U	12 U	12 U	400 U	340 U	400 U
TRANS-2-BUTENE	66	79,000	470,000	4.9 U	38	2,800,000	2,900,000	3,800,000	3,700,000	29	3.1 U	3.1 U	14	4.5 U	4.8 U	4.8 U	4.9 U	770	410	430
Analytical Method TO15	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1,2,4-TRIMETHYLBENZENE	130 U	38,000 U	110,000 U	1.6	11	250,000 U	110,000 U	200,000 U	150,000 U	22	0.78 U	31 U	190 U	220 U	1.2 U	1.2 U	1.2 U	24,000 U	10,000 U	11,000 U
1,3,5-TRIMETHYLBENZENE	130 U	38,000 U	110,000 U	5.6	7.8	250,000 U	110,000 U	200,000 U	150,000 U	12	0.78 U	31 U	190 U	220 U	1.2 U	1.2 U	1.2 U	24,000 U	10,000 U	11,000 U
1,3-BUTADIENE	130 U	38,000 U	110,000 U	1.2 U	2.4 U	250,000 U	110,000 U	200,000 U	150,000 U	1.9 U	0.78 U	31 U	190 U	220 U	1.2 U	1.2 U	1.2 U	24,000 U	10,000 U	11,000 U
BENZENE	130 U	40,000	560,000	1.2 U	200	680,000	440,000	950,000	660,000	180	0.78 U	31 U	190 U	220 U	10	10	5	24,000 U	10,000 U	11,000 U
ETHYL BENZENE	130 U	38,000 U	110,000 U	1.2 U	70	250,000 U	110,000 U	200,000 U	150,000 U	49	0.78 U	31 U	190 U	220 U	1.4	1.40	1.4	24,000 U	10,000 U	11,000 U
HEXANE	660	530,000	2,000,000	2.3	220	2,400,000	1,700,000	2,300,000	1,800,000	180	0.78 U	31 U	190 U	220 U	18	17	4.3	24,000 U	10,000 U	11,000 U
ISOPENTANE	38,000	7,000,000	18,000,000	21	760	42,000,000	35,000,000	47,000,000	38,000,000	410	0.78 U	8,300	1,700	18,000	100	94	28	4,200,000	3,000,000	3,100,000
M,P-XYLENE	130 U	38,000 U	110,000 U	2.6	230	250,000 U	110,000 U	200,000 U	150,000 U	170	0.78 U	37	190 U	220 U	5	4.9	5.2	24,000 U	10,000 U	11,000 U
O-XYLENE	130 U	38,000 U	110,000 U	2.5	71	250,000 U	110,000 U	200,000 U	150,000 U	54	0.78 U	31 U	190 U	220 U	1.6	1.7	1.9	24,000 U	10,000 U	11,000 U
TOLUENE	130 U	38,000 U	320,000	2.2	430	340,000	170,000	600,000	260,000	330	0.78 U	36	190 U	220 U	14	14	11	24,000 U	10,000 U	11,000 U
Analytical Method TO15 (rerun)	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
BENZENE	16 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,200 U	420	410
ETHYL BENZENE	16 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,200 U	190 U	220 U
M,P-XYLENE	16 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,200 U	190 U	220 U
O-XYLENE	16 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,200 U	190 U	220 U
TOLUENE	16 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,200 U	280	230

Notes:
%-Result is reported as a percent
U-compound was analyzed for but not detected above the reporting limit
J-Estimated value, analyte detected below reporting limit
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-5A
Active Soil Vapor Analytical Results - MP (ppbv)
January-March 2005

Hartford Working Group
Hartford, Illinois

Location ID	MP-62	MP-62	MP-63	MP-63	MP-63	MP-63	MP-64	MP-64	MP-64	MP-64	MP-65	MP-65	MP-65	MP-66	MP-66	MP-66	MP-67	MP-67	MP-67	MP-68
Point ID	MP-62C	MP-62C	MP-63A	MP-63B	MP-63C	MP-63C	MP-64A	MP-64A	MP-64B	MP-64C	MP-65A	MP-65B	MP-65C	MP-66A	MP-66B	MP-66C	MP-67A	MP-67B	MP-67C	MP-68
Sample Date	1/12/2005	1/19/2005	2/22/2005	2/22/2005	2/22/2005	2/22/2005	1/6/2005	1/19/2005	1/19/2005	1/19/2005	1/11/2005	1/11/2005	2/22/2005	1/20/2005	1/20/2005	2/22/2005	2/22/2005	2/22/2005	2/22/2005	2/22/2005
Sample ID	011205-MP62C	011905-MP-62C	022205-MP-63A	022205-MP-63B	022205-MP-63C	022205-MP-63CDUP	010605-MP64A	011905-MP-64A	011905-MP-64B	011905-MP-64C	011105-MP65A	011105-MP65B	022205-MP-65C	012005-MP-66A	012005-MP-66B	022205-MP-66C	022205-MP-67A	022205-MP-67B	022205-MP-67C	022205-MP-68
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method D1946	%	%	%	%	%	%	ppmv	%	%	%	%	%	%	%	%	%	%	%	%	%
CARBON DIOXIDE	9.2	8	0.04	0.04	1.2	1.2	-	9.9	11	10	8.4	14	14.0	4.9	6.5	7.4	7.1	16	15.00	14
METHANE	0.88	0.83	0.00021	0.00022	0.019	0.02	-	1.6	3	3	0.00016 U	0.00015 U	0.00012 U	0.00014 U	0.00016 U	0.00043	0.00014 U	0.00014 U	0.00015 U	13
METHANE	-	-	-	-	-	-	3,900	-	-	-	-	-	-	-	-	-	-	-	-	-
OXYGEN	1.2	1.7	21	21	17	17	-	6.4	1.9	1.4	9.3	4.2	4.3	9.6	10	1.9	11	4.2	4.2	1
Analytical Method TO14	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1-BUTENE	320 U	310 U	3.0 U	2.9 U	18	16	-	240,000	530,000	660,000	3.2 U	3.0 U	2.5 U	2.7 U	3.2 U	3.0 U	2.9 U	2.8 U	2.9 U	200 U
ACETYLENE	800 U	780 U	7.4 U	7.2 U	7.0 U	7.6 U	-	12,000 U	28,000 U	26,000 U	7.9 U	7.4 U	6.2 U	6.8 U	8.0 U	7.6 U	7.2 U	7.0 U	7.3 U	500 U
BUTANE	1,400,000	1,400,000	99	110	12,000	12,000	-	22,000,000	38,000,000	44,000,000	7.9 U	7.4 U	78	62	110	34	33	41	27	920,000
CIS-2-BUTENE	1,200	1,100	4.8	5.1	7.7	4.8	-	630,000	1,400,000	1,800,000	3.2 U	3.0 U	3.7	2.7 U	3.2 U	3	2.9 U	2.8 U	2.9 U	200 U
ETHANE	8,800	8,600	7.4 U	7.80	92	94	-	100,000	160,000	180,000	7.9 U	7.4 U	6.2 U	6.8 U	8.0 U	19	64	9.6	7.3 U	23,000
ETHENE	800 U	780 U	7.4 U	7.2 U	7.0 U	7.6 U	-	12,000 U	28,000 U	26,000 U	7.9 U	7.4 U	21	6.8 U	8.0 U	64	24	11	19	500 U
ISOBUTANE	400,000	390,000	36	46	12,000	11,000	-	6,800,000	12,000,000	14,000,000	3.2 U	3.0 U	18	31	54	15	12	18	9.6	750,000
PROPANE	10,000	9,500	7.4 U	7.9	510	520	-	590,000	980,000	1,100,000	7.9 U	7.4 U	6.2 U	6.8 U	9.1	17	44	7.0 U	7.3 U	13,000
PROPYLENE	800 U	780 U	7.4 U	7.2 U	7.0 U	7.6 U	-	12,000 U	28,000 U	26,000 U	7.9 U	7.4 U	6.2 U	6.8 U	8.0 U	7.6 U	7.2 U	7.0 U	7.3 U	500 U
TRANS-2-BUTENE	4,000	3,500	6.1	6.4	9.80	5.7	-	920,000	2,000,000	2,400,000	3.2 U	3.0 U	3.3	2.7 U	3.2 U	3.0 U	2.9 U	2.8 U	2.9 U	340
Analytical Method TO15	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1,2,4-TRIMETHYLBENZENE	24,000 U	16,000 U	14	3.9	110	190	14,000 U	93,000 U	160,000 U	150,000 U	0.79 U	0.74 U	60	0.68 U	0.80 U	190	9.2	16	12	11,000 U
1,3,5-TRIMETHYLBENZENE	24,000 U	16,000 U	6.7	1.6	83 U	100 U	14,000 U	93,000 U	160,000 U	150,000 U	0.79 U	0.74 U	20	0.68 U	0.80 U	64	2.7	4.3	4.2	11,000 U
1,3-BUTADIENE	24,000 U	16,000 U	0.80 U	0.72 U	83 U	100 U	14,000 U	93,000 U	160,000 U	150,000 U	0.79 U	0.74 U	1.0 U	0.68 U	0.80 U	0.76 U	0.72 U	0.70 U	0.73 U	11,000 U
BENZENE	24,000 U	16,000 U	5.60	1	83 U	100 U	61,000	160,000	590,000	560,000	0.79 U	0.74 U	28	0.68 U	0.9	11	3.5	2.8	4.3	11,000 U
ETHYL BENZENE	24,000 U	16,000 U	43	1.3	83 U	100 U	14,000 U	93,000 U	160,000 U	150,000 U	0.79 U	0.74 U	52	0.68 U	0.80 U	70	4.5	5.7	15	11,000 U
HEXANE	290,000	160,000	3.2	0.72 U	390	470	250,000	1,200,000	2,200,000	2,000,000	0.79 U	0.74 U	110	0.68 U	0.80 U	18	2.2	1.6	5.2	11,000 U
ISOPENTANE	5,000,000	3,700,000	2.5	1.6	23,000	25,000	3,800,000	18,000,000	36,000,000	35,000,000	0.79 U	0.74 U	230	0.68 U	1.2	30	5.2	5.2	12	2,300,000
M,P-XYLENE	24,000 U	16,000 U	170	10	83 U	100 U	14,000 U	93,000 U	160,000 U	150,000 U	1.1	0.74 U	180	0.68 U	1.1	260	18	23	62	11,000 U
O-XYLENE	24,000 U	16,000 U	60	3.1	83 U	100 U	14,000 U	93,000 U	160,000 U	150,000 U	0.79 U	0.74 U	64	0.68 U	0.80 U	110	7	9.5	16	11,000 U
TOLUENE	24,000 U	16,000 U	48	4.1	83 U	100 U	14,000 U	93,000 U	220,000	220,000	1.9	0.74 U	170	0.68 U	1.9	100	14	15	16	11,000 U
Analytical Method TO15 (rerun)	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
BENZENE	1,600	1,200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,600
ETHYL BENZENE	600 U	390 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60 U
M,P-XYLENE	600 U	390 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	79
O-XYLENE	600 U	390 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60 U
TOLUENE	600 U	390 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60 U

Notes:
%-Result is reported as a percent
U-compound was analyzed for but not detected above the reporting limit
J-Estimated value, analyte detected below reporting limit
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-5A
Active Soil Vapor Analytical Results - MP (ppbv)
January-March 2005

Hartford Working Group
Hartford, Illinois

Location ID	MP-69	MP-70	MP-71	MP-72	MP-73	MP-73	MP-74	MP-75	MP-76
Point ID	MP-69	Mp-70	MP-71	MP-72	MP-73	MP-73	MP-74	MP-75	MP-76
Sample Date	2/22/2005	2/22/2005	2/22/2005	2/22/2005	2/22/2005	2/22/2005	2/22/2005	2/22/2005	2/22/2005
Sample ID	022205-MP-69	022205-MP-70	022205-MP-71	022205-MP-72	022205-MP-73	022205-MP-73 DUP	022205-MP-74	022205-MP-75	022205-MP-76
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method D1946	%	%	%	%	%	%	%	%	%
CARBON DIOXIDE	16	14	15	17	13	13	9.7	10	12
METHANE	26	39	8.2	45	58	58	2.2	41	17
METHANE	-	-	-	-	-	-	-	-	-
OXYGEN	0.72	0.70	2.2	0.4	0.39	0.36	1.4	1.2	1.1
Analytical Method TO14	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1-BUTENE	1,400	610	2,100	10,000	5,100	5,000	86	400 U	100 U
ACETYLENE	1,500 U	1,500 U	1,700 U	10,000 U	9,800 U	9,800 U	190 U	1,000 U	260 U
BUTANE	2,600,000	2,800,000	3,400,000	20,000,000	14,000,000	15,000,000	330,000	350,000	44,000
CIS-2-BUTENE	680	600 U	7,500	30,000	9,200	11,000	240	400 U	100 U
ETHANE	45,000	61,000	16,000	89,000	110,000	120,000	4,300	54,000	29,000
ETHENE	1,500 U	1,500 U	1,700 U	10,000 U	9,800 U	9,800 U	190 U	1,000 U	260 U
ISOBUTANE	1,500,000	2,000,000	580,000	3,400,000	3,300,000	3,700,000	110,000	1,500,000	340,000
PROPANE	36,000	52,000	27,000	180,000	61,000	68,000	2,400	15,000	3,000
PROPYLENE	1,500 U	1,500 U	1,700 U	10,000 U	9,800 U	9,800 U	190 U	1,000 U	260 U
TRANS-2-BUTENE	1,200	780	18,000	89,000	27,000	29,000	540	400 U	100 U
Analytical Method TO15	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
1,2,4-TRIMETHYLBENZENE	15,000 U	37,000 U	15,000 U	90,000 U	91,000 U	73,000 U	3,300	37,000 U	11,000 U
1,3,5-TRIMETHYLBENZENE	15,000 U	37,000 U	15,000 U	90,000 U	91,000 U	73,000 U	3,100 U	37,000 U	11,000 U
1,3-BUTADIENE	15,000 U	37,000 U	15,000 U	90,000 U	91,000 U	73,000 U	3,100 U	37,000 U	11,000 U
BENZENE	15,000 U	37,000 U	280,000	590,000	380,000	380,000	140,000	37,000 U	11,000 U
ETHYL BENZENE	15,000 U	37,000 U	15,000 U	90,000 U	91,000 U	73,000 U	3,100 U	37,000 U	11,000 U
HEXANE	15,000 U	58,000	74,000	1,100,000	610,000	630,000	3,100 U	37,000 U	11,000 U
ISOPENTANE	4,100,000	12,000,000	3,600,000	24,000,000	23,000,000	24,000,000	500,000	9,000,000	2,200,000
M,P-XYLENE	15,000 U	37,000 U	15,000 U	90,000 U	91,000 U	73,000 U	8,000	37,000 U	11,000 U
O-XYLENE	15,000 U	37,000 U	15,000 U	90,000 U	91,000 U	73,000 U	3,100 U	37,000 U	11,000 U
TOLUENE	15,000 U	37,000 U	15,000 U	90,000 U	91,000 U	73,000 U	3,100 U	37,000 U	11,000 U
Analytical Method TO15 (rerun)	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv	ppbv
BENZENE	11,000	3,600	-	-	-	-	-	18,000	2,200
ETHYL BENZENE	580 U	600 U	-	-	-	-	-	57	620 U
M,P-XYLENE	580 U	600 U	-	-	-	-	-	6,600	620 U
O-XYLENE	580 U	600 U	-	-	-	-	-	410	620 U
TOLUENE	580 U	600 U	-	-	-	-	-	270	620 U

Notes:
%-Result is reported as a percent
U-compound was analyzed for but not detected above the reporting limit
J-Estimated value, analyte detected below reporting limit
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-5B
Active Soil Vapor Analytical Results - MP (ug/m3)
January-March 2005

Hartford Working Group
Hartford, Illinois

Location ID	MP-5	MP-5	MP-6	MP-7	MP-7	MP-8	MP-8	MP-9	MP-9	MP-10	MP-11	MP-11	MP-12	MP-12	MP-13	MP-13	MP-14	MP-14	MP-15	MP-15	MP-16
Point ID	MP-5D	MP-5S	MP-6S	MP-7D	MP-7S	MP-8D	MP-8S	MP-9D	MP-9S	MP-10S	MP-11D	MP-11S	MP-12D	MP-12S	MP-13D	MP-13S	MP-14D	MP-14S	MP-15D	MP-15S	MP-16D
Sample Date	1/26/2005	1/26/2005	1/20/2005	1/26/2005	1/26/2005	1/20/2005	1/20/2005	1/26/2005	2/22/2005	1/26/2005	1/11/2005	1/11/2005	1/11/2005	1/11/2005	1/26/2005	1/26/2005	1/26/2005	1/26/2005	1/10/2005	1/10/2005	1/10/2005
Sample ID	012605-MP-5D	012605-MP-5S	012005-MP-6S	012605-MP-7D	012605-MP-7S	012005-MP-8D	012005-MP-8S	012605-MP-9D	022205-MP-9S	012605-MP-10S	011105-MP11D	011105-MP11S	011105-MP12D	011105-MP12S	012605-MP-13D	012605-MP-13S	012605-MP-14D	012605-MP-14S	011005-MP-15D	011005-MP-15S	011005-MP-16D
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method TO14	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1-BUTENE	260	11,000	9,700	12,000	81,000	7.8 U	110,000	84,000	540	7.1 U	7.7 U	7.1 U	7.4 U	7.2 U	6.6 U	7.1 U	12	7.0 U	22,000	10 U	53,000
ACETYLENE	27 U	620 U	3,400 U	700 U	2,500 U	9.1 U	2,500 U	3,700 U	350 U	8.2 U	8.9 U	8.2 U	8.6 U	8.4 U	7.7 U	8.2 U	12 U	8.1 U	230 U	12 U	690 U
BUTANE	130,000	2,500,000	11,000,000	3,100,000	11,000,000	110	8,900,000	15,000,000	1,200,000	18 U	1,500	36	55	19 U	32	92	780	18 U	1,100,000	27 U	3,200,000
CIS-2-BUTENE	1,200	61,000	25,000	68,000	290,000	7.8 U	450,000	310,000	3,800	7.1 U	12	7.1 U	7.4 U	7.2 U	6.6 U	7.1 U	36	7.0 U	57,000	10 U	150,000
ETHANE	860	36,000	170,000	34,000	180,000	11	120,000	250,000	7,400	9.5 U	56	9.5 U	19	9.7 U	8.8 U	12	40	9.3 U	15,000	17	35,000
ETHENE	33	670 U	3,700 U	760 U	2,600 U	9.8 U	2,700 U	4,000 U	380 U	8.9 U	27	8.9 U	14	9.1 U	8.3 U	8.9 U	16	8.7 U	6,300	13 U	13,000
ISOBUTANE	42,000	850,000	4,400,000	930,000	3,700,000	37	2,600,000	5,200,000	320,000	20	450	10	15	7.5 U	6.8 U	41	180	26	270,000	12	700,000
PROPANE	1,300	30,000	160,000	36,000	160,000	15 U	120,000	220,000	6,500	14 U	46	14 U	20	16	13 U	14 U	20 U	14 U	21,000	21 U	42,000
PROPYLENE	43 U	1,000 U	5,600 U	1,100 U	4,000 U	15 U	4,000 U	6,000 U	560 U	13 U	14 U	13 U	14 U	14 U	12 U	13 U	19 U	13 U	380 U	20 U	1,100 U
TRANS-2-BUTENE	2,800	100,000	91,000	130,000	470,000	7.8 U	580,000	530,000	12,000	7.1 U	18	7.1 U	7.4 U	7.2 U	6.6 U	7.1 U	39	7.0 U	69,000	10 U	190,000
Analytical Method TO15	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1,2,4-TRIMETHYLBENZENE	3,400 U	45,000 U	360,000 U	91,000 U	170,000 U	64	130,000 U	370,000 U	20,000 U	3.8 U	14 U	10 U	11	3.9 U	2,400	7.3	6,700	4.5	23,000	5.6 U	46,000 U
1,3,5-TRIMETHYLBENZENE	3,400 U	45,000 U	360,000 U	91,000 U	170,000 U	18	130,000 U	370,000 U	20,000 U	3.8 U	14 U	10 U	4	3.9 U	780	8.8	4,500	3.7 U	16,000	5.6 U	46,000 U
1,3-BUTADIENE	1,500 U	20,000 U	160,000 U	41,000 U	77,000 U	1.9 U	60,000 U	160,000 U	9,100 U	1.7 U	6.2 U	4.6 U	1.8 U	1.7 U	8.0 U	1.7 U	61 U	1.7 U	5,100 U	2.5 U	20,000 U
BENZENE	2,200 U	90,000	230,000 U	310,000	110,000 U	67	290,000	240,000 U	21,000	2.5 U	8.9 U	6.6 U	7.7	2.5 U	100	2.5 U	8,700	2.7	310,000	3.6 U	1,000,000
ETHYL BENZENE	3,000 U	40,000 U	320,000 U	81,000 U	150,000 U	29	120,000 U	320,000 U	18,000 U	3.4 U	17	9.0 U	3.5 U	3.4 U	140	3.4 U	360	7.4	76,000	5.0 U	160,000
HEXANE	64,000	770,000	2,200,000	1,700,000	3,800,000	140	3,500,000	5,100,000	180,000	2.8	45	20	7.7	2.8 U	330	4.8	25,000	2.7 U	560,000	4.0 U	2,500,000
ISOPENTANE	490,000	7,100,000	36,000,000	8,800,000	30,000,000	250	26,000,000	43,000,000	3,400,000	4.1	2,000	22	44	25	200	31	9,000	2.4	1,600,000	3.4 U	7,200,000
M,P-XYLENE	3,000 U	40,000 U	320,000 U	300,000	150,000 U	59	120,000 U	320,000 U	18,000 U	3.4 U	33	9.0 U	10	3.4 U	1,100	3.4 U	33,000	34	400,000	5.0 U	360,000
O-XYLENE	3,000 U	40,000 U	320,000 U	81,000 U	150,000 U	13	120,000 U	320,000 U	18,000 U	3.4 U	15	9.0 U	3.5 U	3.4 U	490	4.6	15,000	5.5	130,000	5.0 U	110,000
TOLUENE	3,900	34,000 U	280,000 U	180,000	130,000 U	31	100,000 U	280,000 U	15,000 U	2.9 U	48	7.8 U	4.3	3.0 U	51	2.9 U	24,000	8.2	730,000	4.3 U	1,500,000
Analytical Method TO15 (rerun)	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
BENZENE	110 U	-	23,000	-	100,000	-	-	12,000 U	-	-	-	-	-	-	-	-	-	-	-	-	-
ETHYL BENZENE	150 U	-	1,000 U	-	100,000 U	-	-	16,000 U	-	-	-	-	-	-	-	-	-	-	-	-	-
M,P-XYLENE	150 U	-	1,000 U	-	100,000 U	-	-	16,000 U	-	-	-	-	-	-	-	-	-	-	-	-	-
O-XYLENE	150 U	-	1,000 U	-	100,000 U	-	-	16,000 U	-	-	-	-	-	-	-	-	-	-	-	-	-
TOLUENE	130 U	-	920 U	-	87,000 U	-	-	14,000 U	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
%-Result is reported as a percent
U-compound was analyzed for but not detected above the reporting limit
J-Estimated value, analyte detected below reporting limit
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-5B
Active Soil Vapor Analytical Results - MP (ug/m3)
January-March 2005

Hartford Working Group
Hartford, Illinois

Location ID	MP-16	MP-17	MP-17	MP-17	MP-18	MP-18	MP-18	MP-18	MP-18	MP-19	MP-19	MP-19	MP-19	MP-19	MP-19	MP-20	MP-20	MP-20	MP-20	MP-21	MP-21	MP-21
Point ID	MP-16S	MP-17	MP-17	MP-17	MP-18	MP-18	MP-18	MP-18	MP-18	MP-19	MP-19	MP-19	MP-19	MP-19	MP-19	MP-20	MP-20	MP-20	MP-20	MP-21	MP-21	MP-21
Sample Date	1/10/2005	1/19/2005	1/20/2005	3/23/2005	1/12/2005	1/19/2005	1/20/2005	1/27/2005	3/23/2005	1/12/2005	1/19/2005	1/20/2005	1/27/2005	3/23/2005	3/23/2005	1/12/2005	1/19/2005	1/20/2005	3/23/2005	1/12/2005	1/27/2005	3/23/2005
Sample ID	011005-MP-16S	011905-MP-17	012005-MP-17	032305-MP-17	011205-MP18	011905-MP-18	012005-MP-18	012705-MP-18	032305-MP-18	011205-MP19	011905-MP-19	012005-MP-19	012705-MP-19	032305-MP-19	032305-MP-19 Dup	011205-MP20	011905-MP-20	012005-MP-20	032305-MP-20	011205-MP21	012705-MP-21	032305-MP-21
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method TO14	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1-BUTENE	11 U	6,200	1,200	6.8 U	1,100	3,900	140	6.5 U	7.0 U	570	1,300	24	7.0 U	6.2 U	7.4 U	2,700	3,000	48	7.1 U	6,200	110	52
ACETYLENE	13 U	1,000 U	340 U	7.9 U	160 U	500 U	32 U	7.5 U	8.1 U	240 U	330 U	7.9 U	8.1 U	7.1 U	8.6 U	430 U	570 U	8.2 U	8.2 U	1,000 U	7.8 U	7.9 U
BUTANE	72	4,100,000	1,200,000	27	600,000	2,100,000	120,000	31	18 U	1,000,000	1,300,000	29,000	1,500	16 U	19 U	1,900,000	2,100,000	4100	91	4,100,000	19,000	4,000
CIS-2-BUTENE	11 U	24,000	3,200	6.8 U	2,900	17,000	560	6.5 U	7.0 U	3,400	5,600	110	10	6.2 U	7.4 U	13,000	15,000	66	7.1 U	38,000	650	180
ETHANE	16	24,000	2,800	11	1,600	8,000	540	9.5	9.3 U	9,600	10,000	300	18	10	11	8,100	5,800	33	10	24,000	120	25
ETHENE	14 U	1,100 U	360 U	8.5 U	170 U	540 U	34 U	8.1 U	8.7 U	250 U	360 U	8.5 U	8.7 U	7.7 U	9.2 U	460 U	610 U	8.9 U	8.9 U	1,100 U	22	30
ISOBUTANE	38	850,000	350,000	8.1	200,000	480,000	30,000	22	22	230,000	310,000	7,600	330	6.4 U	7.6 U	410,000	470,000	1,500	75	870,000	3,500	930
PROPANE	21 U	13,000	3,400	13 U	2,200	6,800	360	13 U	14 U	3,800	5,100	140	14	12 U	14 U	6,000	8,700	100	14 U	23,000	85	38
PROPYLENE	20 U	1,700 U	540 U	13 U	250 U	810 U	51 U	12 U	13 U	380 U	530 U	13 U	13 U	12 U	14 U	690 U	920 U	13 U	13 U	1,600 U	23	13 U
TRANS-2-BUTENE	11 U	56,000	6,700	6.8 U	5,600	36,000	1,200	6.5 U	7.0 U	5,800	12,000	240	18	6.2 U	7.4 U	21,000	26,000	110	7.1 U	73,000	930	210
Analytical Method TO15	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1,2,4-TRIMETHYLBENZENE	5.8 U	180,000 U	39,000 U	3.7 U	25,000 U	120,000 U	4,900 U	24	3.7 U	38,000 U	54,000 U	1,500 U	93 U	3.3 U	4.0 U	53,000 U	71,000 U	76 U	3.8 U	120,000 U	720 U	150 U
1,3,5-TRIMETHYLBENZENE	5.8 U	180,000 U	39,000 U	3.7 U	25,000 U	120,000 U	4,900 U	8.2	3.7 U	38,000 U	54,000 U	1,500 U	93 U	3.3 U	4.0 U	53,000 U	71,000 U	76 U	3.8 U	120,000 U	720 U	150 U
1,3-BUTADIENE	2.6 U	82,000 U	17,000 U	1.6 U	11,000 U	52,000 U	2,200 U	1.6 U	1.7 U	17,000 U	24,000 U	660 U	42 U	1.5 U	1.8 U	24,000 U	32,000 U	34 U	1.7 U	53,000 U	320 U	66 U
BENZENE	3.8 U	120,000 U	25,000 U	2.4 U	16,000 U	75,000 U	3,200 U	12	2.4 U	25,000 U	35,000 U	950 U	73	2.1 U	2.6 U	34,000 U	46,000 U	50 U	2.5 U	77,000 U	4,700	470
ETHYL BENZENE	5.2 U	160,000 U	34,000 U	3.2 U	22,000 U	100,000 U	4,300 U	17	3.3 U	34,000 U	48,000 U	1,300 U	82 U	2.9 U	3.5 U	47,000 U	62,000 U	67 U	3.4 U	100,000 U	630 U	130 U
HEXANE	4.2 U	3,800,000	640,000	2.6 U	280,000	1,500,000	76,000	92	19	700,000	1,000,000	28,000	2,400	2.4 U	2.9	1,200,000	980,000	570	8.9	2,700,000	29,000	10,000
ISOPENTANE	6.5	24,000,000	8,100,000	33	3,800,000	11,000,000	760,000	190	24	7,100,000	9,800,000	250,000	14,000	15	13	9,700,000	8,800,000	8,300	510	16,000,000	130,000	27,000
M,P-XYLENE	5.2 U	160,000 U	34,000 U	3.2 U	22,000 U	100,000 U	4,300 U	100	3.3 U	34,000 U	48,000 U	1,300 U	110	2.9 U	3.5 U	47,000 U	62,000 U	67 U	4.3	100,000 U	890	330
O-XYLENE	5.2 U	160,000 U	34,000 U	3.2 U	22,000 U	100,000 U	4,300 U	33	3.3 U	34,000 U	48,000 U	1,300 U	82 U	2.9 U	3.5 U	47,000 U	62,000 U	67 U	3.4 U	100,000 U	630 U	170
TOLUENE	4.5 U	140,000 U	30,000 U	2.8 U	19,000 U	88,000 U	3,700 U	68	2.9 U	29,000 U	42,000 U	1,100 U	72 U	2.5 U	3.0 U	40,000 U	54,000 U	58 U	15	90,000 U	1,300	460
Analytical Method TO15 (rerun)	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
BENZENE	-	840	720 U	-	500 U	710	240	-	-	1,000	800	57	-	-	-	2,600 U	11,000	24	-	55,000	-	-
ETHYL BENZENE	-	320 U	980 U	-	670 U	310 U	320 U	-	-	1,300 U	720	65 U	-	-	-	3,500 U	6,200 U	13 U	-	3,100 U	-	-
M,P-XYLENE	-	320 U	980 U	-	670 U	310 U	320 U	-	-	1,300 U	2,700	65 U	-	-	-	3,500 U	6,200 U	25	-	8,800	-	-
O-XYLENE	-	320 U	980 U	-	670 U	310 U	320 U	-	-	1,300 U	1,400	65 U	-	-	-	3,500 U	6,200 U	13 U	-	3,100 U	-	-
TOLUENE	-	570	850 U	-	580 U	260 U	280 U	-	-	1,200 U	1,200	56 U	-	-	-	3,000 U	5,400 U	16	-	4,200	-	-

Notes:
%-Result is reported as a percent
U-compound was analyzed for but not detected above the reporting limit
J-Estimated value, analyte detected below reporting limit
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-5B
Active Soil Vapor Analytical Results - MP (ug/m3)
January-March 2005

Hartford Working Group
Hartford, Illinois

Location ID	MP-22	MP-22	MP-23	MP-23	MP-24	MP-24	MP-24	MP-25	MP-26	MP-27	MP-28	MP-29	MP-29	MP-29	MP-29	MP-30	MP-30	MP-30	MP-31	MP-31	MP-31
Point ID	MP-22	MP-22	MP-23	MP-23	MP-24	MP-24	MP-24	MP-25	MP-26	MP-27	MP-28	MP-29A	MP-29B	MP-29C	MP-29D	MP-30A	MP-30B	MP-30C	MP-31A	MP-31B	MP-31C
Sample Date	1/12/2005	3/23/2005	3/10/2005	3/23/2005	1/12/2005	1/12/2005	1/27/2005	1/26/2005	1/26/2005	1/26/2005	1/26/2005	1/26/2005	1/12/2005	1/12/2005	1/26/2005	1/14/2005	1/14/2005	1/14/2005	1/14/2005	1/14/2005	1/14/2005
Sample ID	011205-MP22	032305-MP-22	031005 MP-23	032305-MP-24	011205-MP24	011205-MP24 DUP	012705-MP-24	012605-MP-25	012605-MP-26	012605-MP-27	012605-MP-28	012605-MP-29A	011205-MP29B	011205-MP29C	012605-MP-29D	011405-MP-30A	011405-MP-30B	011405-MP-30C	011405-MP-31A	011405-MP-31B	011405-MP-31C
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method TO14	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1-BUTENE	88,000	28	7.4 U	7.0 U	180,000	190,000	6.8 U	250,000	23,000	58,000	9	17,000	7,500 U	5,000 U	460,000	280	6.6 U	290,000	6.2 U	6.0 U	130,000
ACETYLENE	2,200 U	7.4 U	8.6 U	8.1 U	4,100 U	4,100 U	7.9 U	4,700 U	340 U	7,000 U	8.6 U	3,700 U	8,700 U	5,800 U	11,000 U	28 U	7.7 U	4,000 U	7.1 U	7.0 U	5,600 U
BUTANE	8,800,000	3,400	19 U	19	16,000,000	17,000,000	160	20,000,000	1,500,000	27,000,000	200	16,000,000	31,000,000	25,000,000	44,000,000	110,000	500	14,000,000	16 U	24	12,000,000
CIS-2-BUTENE	300,000	78	7.4 U	7.0 U	490,000	520,000	8.7	550,000	65,000	170,000	7.4	3,200 U	7,500 U	5,000 U	2,100,000	1,500	24	530,000	6.2 U	6.0 U	440,000
ETHANE	35,000	18	9.9 U	9.3 U	53,000	58,000	11	110,000	23,000	150,000	120	150,000	180,000	54,000	150,000	1,200	17	150,000	48	8.1 U	66,000
ETHENE	2,400 U	16	9.2 U	8.7 U	4,400 U	4,400 U	8.5 U	5,000 U	2,100	7,600 U	9.2 U	4,000 U	9,400 U	6,200 U	12,000 U	31 U	8.3 U	12,000	7.7 U	7.6 U	6,100 U
ISOBUTANE	2,200,000	1,400	7.6 U	7.2 U	5,100,000	5,500,000	43	5,400,000	340,000	9,800,000	120	8,600,000	11,000,000	6,800,000	15,000,000	40,000	93	4,100,000	11	6.3 U	2,800,000
PROPANE	100,000	38	14 U	14 U	330,000	350,000	13 U	360,000	23,000	550,000	60	190,000	290,000	130,000	61,000	1,400	13 U	550,000	14	12 U	220,000
PROPYLENE	3,500 U	12 U	14 U	13 U	6,700 U	6,700 U	13 U	7,600 U	770	11,000 U	63	6,000 U	14,000 U	9,300 U	17,000 U	46 U	12 U	11,000	12 U	11 U	9,100 U
TRANS-2-BUTENE	420,000	100	7.4 U	7.0 U	700,000	760,000	11	830,000	82,000	370,000	8.3	4,400	7,500 U	7,700	2,600,000	1,400	30	730,000	6.2 U	6.0 U	620,000
Analytical Method TO15	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1,2,4-TRIMETHYLBENZENE	72,000 U	140 U	-	3.7 U	150,000 U	150,000 U	3.7 U	1,600,000 U	67,000 U	270,000 U	410	230,000 U	200,000 U	170,000 U	6,500,000 U	7,800	3,500	75,000 U	17	42	110,000 U
1,3,5-TRIMETHYLBENZENE	72,000 U	140 U	-	3.7 U	150,000 U	150,000 U	3.7 U	1,600,000 U	67,000 U	270,000 U	80	230,000 U	200,000 U	170,000 U	6,500,000 U	5,400	1,700	75,000 U	7.3	21	110,000 U
1,3-BUTADIENE	32,000 U	62 U	-	1.7 U	68,000 U	68,000 U	1.6 U	730,000 U	30,000 U	120,000 U	1.8 U	100,000 U	91,000 U	76,000 U	2,900,000 U	2,000 U	26 U	34,000 U	1.5 U	1.5 U	49,000 U
BENZENE	97,000	89 U	-	2.4 U	120,000	120,000	8	4,200,000	540,000	180,000 U	31	150,000 U	130,000 U	110,000 U	20,000,000	6,800	2,700	48,000 U	14	50	430,000
ETHYL BENZENE	63,000 U	120 U	-	3.3 U	130,000 U	130,000 U	3.2 U	1,400,000 U	160,000	240,000 U	340	200,000 U	180,000 U	150,000 U	5,700,000 U	18,000	4,800	66,000 U	16	46	96,000 U
HEXANE	2,000,000	3,100	-	3.1	3,400,000	3,700,000	10 U	76,000,000	4,400,000	6,700,000	41	480,000	140,000 U	120,000 U	92,000,000	190,000	6,800	1,100,000	4.7	14	1,400,000
ISOPENTANE	13,000,000	19,000	-	23	26,000,000	27,000,000	23	340,000,000	7,200,000	38,000,000	120	39,000,000	44,000,000	20,000,000	1,100,000,000	820,000	4,600	16,000,000	12	43	19,000,000
M,P-XYLENE	63,000 U	120 U	-	3.3 U	130,000 U	130,000 U	7.4	1,400,000 U	440,000	240,000 U	350	200,000 U	180,000 U	150,000 U	5,700,000 U	34,000	14,000	66,000 U	40	110	100,000
O-XYLENE	63,000 U	120 U	-	3.3 U	130,000 U	130,000 U	3.2 U	1,400,000 U	94,000	240,000 U	80	200,000 U	180,000 U	150,000 U	5,700,000 U	3,900 U	4,500	66,000 U	12	29	96,000 U
TOLUENE	55,000 U	100 U	-	4.2	120,000 U	120,000 U	15	2,100,000	380,000	210,000 U	84	180,000 U	150,000 U	130,000 U	6,100,000	5,300	2,400	57,000 U	27	78	180,000
Analytical Method TO15 (rerun)	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
BENZENE	-	-	-	-	-	-	-	-	-	20,000	-	9,500 U	24,000	24,000	-	-	-	7,700	-	-	-
ETHYL BENZENE	-	-	-	-	-	-	-	-	-	86,000	-	13,000 U	710 U	13,000 U	-	-	-	6,600 U	-	-	-
M,P-XYLENE	-	-	-	-	-	-	-	-	-	68,000	-	13,000 U	710 U	13,000 U	-	-	-	6,600 U	-	-	-
O-XYLENE	-	-	-	-	-	-	-	-	-	16,000 U	-	13,000 U	710 U	13,000 U	-	-	-	6,600 U	-	-	-
TOLUENE	-	-	-	-	-	-	-	-	-	14,000 U	-	11,000 U	2,100	11,000 U	-	-	-	5,700 U	-	-	-

Notes:
%-Result is reported as a percent
U-compound was analyzed for but not detected above the reporting limit
J-Estimated value, analyte detected below reporting limit
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-5B
Active Soil Vapor Analytical Results - MP (ug/m3)
January-March 2005

Hartford Working Group
Hartford, Illinois

Location ID	MP-32	MP-32	MP-32	MP-33	MP-33	MP-33	MP-33	MP-33	MP-33	MP-34	MP-34	MP-34	MP-34	MP-35	MP-35	MP-35	MP-35	MP-36	MP-36	MP-36
Point ID	MP-32A	MP-32B	MP-32C	MP-33A	MP-33B	MP-33B	MP-33C	MP-33C	MP-33D	MP-34A	MP-34B	MP-34C	MP-34C	MP-35A	MP-35B	MP-35C	MP-35D	MP-36A	MP-36A	MP-36B
Sample Date	1/12/2005	1/12/2005	1/12/2005	1/12/2005	1/12/2005	3/11/2005	1/12/2005	3/11/2005	1/26/2005	1/26/2005	1/26/2005	1/26/2005	1/26/2005	1/26/2005	1/26/2005	1/26/2005	1/26/2005	1/26/2005	1/28/2005	1/26/2005
Sample ID	011205-MP-32A	011205-MP-32B	011205-MP-32C	011205-MP-33A	011205-MP-33B	031105 MP-33B	011205-MP-33C	031105 MP-33C	012605-MP-33D	012605-MP-34A	012605-MP-34B	012605-MP-34C	012605-MP-34C-D	012605-MP-35A	012605-MP-35B	012605-MP-35C	012605-MP-35D	012605-MP-36A	012805-MP-36A	012605-MP-36B
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method TO14	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1-BUTENE	16	100,000	58,000	7.5 U	7.5 U	270	74	190	48,000	10 U	81	9.9 U	10 U	6.2 U	10	7,900	270,000	1,700	1,200	5,000
ACETYLENE	9.7 U	1,200 U	3,000 U	8.7 U	8.7 U	8.6 U	9.3 U	8.2 U	340 U	12 U	7.5 U	12 U	12 U	7.2 U	7.1 U	62 U	2,300 U	44 U	38 U	100 U
BUTANE	1,000	5,500,000	12,000,000	29	19 U	5,200	14,000	14,000	1,300,000	170	3,800	280	40	21	460	240,000	7,700,000	190,000	130,000	420,000
CIS-2-BUTENE	18	210,000	170,000	7.5 U	7.5 U	450	160	300	130,000	10 U	170	9.9 U	10 U	6.2 U	30	15,000	620,000	3,800	2,400	86 U
ETHANE	1,100	210,000	660,000	12	74	67	1,300	2,700	54,000	18	2,600	13 U	14 U	25	230	14,000	210,000	11,000	7,700	18,000
ETHENE	39	36,000	7,000	9.4 U	9.4 U	9.2 U	310	550	1,200	13 U	270	12 U	13 U	7.8 U	7.7 U	1,500	11,000	720	500	1,500
ISOBUTANE	1,000	2,100,000	3,700,000	17	7.8 U	1,200	6,600	7,600	340,000	51	1,300	79	12	13	160	74,000	2,200,000	47,000	37,000	80,000
PROPANE	300	480,000	810,000	15 U	15 U	94	1,000	1,500	71,000	20 U	260	19 U	20 U	12 U	50	9,500	330,000	2,400	1,700	3,900
PROPYLENE	16 U	7,100	4,800 U	14 U	14 U	14 U	280	420	910	19 U	210	18 U	19 U	12 U	12 U	760	8,900	110	81	160 U
TRANS-2-BUTENE	26	280,000	260,000	7.5 U	7.5 U	610	220	370	130,000	10 U	210	9.9 U	10 U	6.2 U	36	18,000	700,000	6,100	3,900	19,000
Analytical Method TO15	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1,2,4-TRIMETHYLBENZENE	220	25,000 U	69,000 U	72	90	47	3,800	220	12,000	6	110,000	5.3 U	5.5 U	3.3 U	3.4	36,000	140,000 U	17,000 U	13,000 U	69,000 U
1,3,5-TRIMETHYLBENZENE	66	25,000 U	69,000 U	22	25	32 U	84,000	10,000	11,000 U	79	72,000	5.3 U	5.5 U	7.2	22	45,000	140,000 U	17,000 U	13,000 U	69,000 U
1,3-BUTADIENE	2.0 U	11,000 U	31,000 U	1.8 U	1.8 U	14 U	190 U	53 U	4,900 U	2.5 U	1,600 U	2.4 U	2.5 U	1.5 U	1.5 U	1,500 U	62,000 U	7,500 U	5,900 U	31,000 U
BENZENE	210	1,500,000	180,000	14	10	230	280 U	140	300,000	3.6 U	5,500	3.4 U	3.6 U	2.2 U	5.6	2,800	2,300,000	11,000 U	8,600 U	400,000
ETHYL BENZENE	150	120,000	61,000 U	19	18	78	380 U	100 U	24,000	4.9 U	45,000	4.7 U	4.9 U	3.0 U	2.9 U	4,300	120,000 U	15,000 U	12,000 U	73,000
HEXANE	290	5,300,000	1,200,000	21	14	1,300	10,000	3,600	410,000	3.9 U	54,000	3.8 U	3.9 U	2.4 U	7	24,000	7,200,000	1,200,000	730,000	7,800,000
ISOPENTANE	720	3,600,000	10,000,000	68	30	5,600	39,000	16,000	1,700,000	9	14,000	5.1	5	5.1	29	310,000	22,000,000	3,300,000	2,500,000	8,600,000
M,P-XYLENE	600	440,000	100,000	81	78	310	510	480	94,000	5.4	1,200,000	4.7 U	4.9 U	9.9	13	690,000	360,000	15,000 U	12,000 U	180,000
O-XYLENE	210	120,000	61,000 U	33	34	96	4,200	1,200	28,000	38	450,000	4.7 U	4.9 U	6.5	13	390,000	120,000 U	15,000 U	12,000 U	61,000 U
TOLUENE	820	2,800,000	250,000	53	46	770	330 U	140	190,000	4.2 U	48,000	4.1 U	4.2 U	4	11	28,000	1,800,000	13,000 U	10,000 U	90,000
Analytical Method TO15 (rerun)	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
BENZENE	-	-	-	-	-	-	190	-	-	-	-	-	-	-	-	-	-	1,700	2,400	-
ETHYL BENZENE	-	-	-	-	-	-	150 U	-	-	-	-	-	-	-	-	-	-	590 U	1,200 U	-
M,P-XYLENE	-	-	-	-	-	-	540	-	-	-	-	-	-	-	-	-	-	590 U	1,200 U	-
O-XYLENE	-	-	-	-	-	-	4,400	-	-	-	-	-	-	-	-	-	-	590 U	1,200 U	-
TOLUENE	-	-	-	-	-	-	130 U	-	-	-	-	-	-	-	-	-	-	510 U	1,000 U	-

Notes:
%-Result is reported as a percent
U-compound was analyzed for but not detected above the reporting limit
J-Estimated value, analyte detected below reporting limit
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-5B
Active Soil Vapor Analytical Results - MP (ug/m3)
January-March 2005

Hartford Working Group
Hartford, Illinois

Location ID	MP-36	MP-36	MP-36	MP-37	MP-37	MP-37	MP-37	MP-37	MP-38	MP-38	MP-38	MP-39	MP-39	MP-39	MP-40	MP-40	MP-40	MP-41	MP-41	MP-41
Point ID	MP-36B	MP-36C	MP-36C	MP-37A	MP-37B	MP-37C	MP-37C	MP-37D	MP-38A	MP-38B	MP-38C	MP-39A	MP-39B	MP-39C	MP-40A	MP-40B	MP-40C	MP-41A	MP-41B	MP-41C
Sample Date	1/28/2005	1/26/2005	1/28/2005	2/21/2005	2/21/2005	2/21/2005	2/21/2005	2/21/2005	2/21/2005	2/21/2005	2/21/2005	1/12/2005	1/12/2005	1/12/2005	1/17/2005	1/17/2005	2/21/2005	2/21/2005	2/21/2005	2/22/2005
Sample ID	012805-MP-36B	012605-MP-36C	012805-MP-36C	022105-MP-37A	022105-MP-37B	022105-MP-37C DUP	022105-MP-37C	022105-MP-37D	022105-MP-38A	022105-MP-38B	022105-MP-38C	011205-MP-39A	011205-MP-39B	011205-MP-39C	011705-MP-40A	011705-MP-40B	022105-MP-40C	022105-MP-41A	022105-MP-41B	022205-MP-41C
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method TO14	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1-BUTENE	3,700	6,900	650,000	24,000	40,000	6.7 U	10	1,700,000	1,100,000	46,000	670	27	86	2,800,000	590	280,000	380,000	6.8 U	44,000	95
ACETYLENE	75 U	68 U	7,100 U	1,100 U	1,700 U	7.8 U	7.5 U	30,000 U	16,000 U	820 U	320 U	8.6 U	8.1 U	31,000 U	20 U	12,000 U	1,300 U	7.9 U	840 U	9.7 U
BUTANE	310,000	290,000	28,000,000	3,200,000	6,300,000	150	510	80,000,000	55,000,000	3,600,000	1,000,000	1,000	4,400	130,000,000	65,000	52,000,000	5,200,000	44	2,900,000	2,300
CIS-2-BUTENE	11,000	19,000	1,500,000	100,000	120,000	8	26	4,500,000	3,000,000	120,000	860	80	220	6,600,000	1,300	410,000	900,000	6.8 U	160,000	300
ETHANE	13,000	1,100	120,000	76,000	190,000	10	15	340,000	830,000	7,000	3,600	9.9 U	25	320,000	640	420,000	270,000	9.6	28,000	11 U
ETHENE	1,200	140	14,000	3,100	4,000	8.4 U	8.1 U	32,000 U	100,000	1,200	340 U	9.2 U	210	440,000	45	14,000	34,000	8.5 U	4,000	10 U
ISOBUTANE	59,000	66,000	7,400,000	1,000,000	2,600,000	38	160	14,000,000	14,000,000	910,000	490,000	210	1,200	35,000,000	17,000	17,000,000	1,400,000	11	400,000	320
PROPANE	2,800	5,000	600,000	78,000	320,000	13 U	17	980,000	1,300,000	34,000	15,000	19	59	2,500,000	1,600	1,300,000	390,000	13 U	20,000	16 U
PROPYLENE	170	110 U	12,000	1,800 U	2,800 U	12 U	12 U	48,000 U	26,000 U	1,300 U	510 U	14 U	18	50,000 U	32 U	19,000 U	14,000	13 U	1,400 U	16 U
TRANS-2-BUTENE	14,000	22,000	1,800,000	170,000	220,000	9.9	32	5,400,000	3,800,000	160,000	2,500	94	230	8,000,000	3,000	1,200,000	900,000	6.8 U	200,000	330
Analytical Method TO15	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1,2,4-TRIMETHYLBENZENE	37,000 U	3,200	220,000 U	37,000 U	120,000 U	3.6 U	3.5 U	540,000 U	730,000 U	51,000 U	29,000 U	1,300	400	720,000 U	140 U	350,000 U	46,000 U	21	260,000 U	1,300
1,3,5-TRIMETHYLBENZENE	37,000 U	2,300 U	220,000 U	37,000 U	120,000 U	3.6 U	3.5 U	540,000 U	730,000 U	51,000 U	29,000 U	400	2,200	720,000 U	140 U	350,000 U	46,000 U	17	260,000 U	470
1,3-BUTADIENE	16,000 U	1,000 U	99,000 U	17,000 U	52,000 U	1.6 U	1.6 U	240,000 U	330,000 U	23,000 U	13,000 U	4.7 U	34 U	320,000 U	62 U	160,000 U	21,000 U	1.6 U	120,000 U	27 U
BENZENE	310,000	35,000	810,000	330,000	2,000,000	5.2	6	2,200,000	1,300,000	33,000 U	19,000 U	320	1,300	2,400,000	260	230,000 U	31,000	18	4,100,000	2,300
ETHYL BENZENE	100,000	6,700	190,000 U	250,000	150,000	3.2 U	3.1 U	480,000 U	650,000 U	45,000 U	26,000 U	380	250	630,000 U	120 U	310,000 U	40,000 U	26	230,000 U	840
HEXANE	6,000,000	86,000	2,200,000	2,900,000	8,600,000	16	18	7,900,000	7,300,000	620,000	170,000	620	1,700	7,800,000	780	4,000,000	1,000,000	220	22,000,000	4,200
ISOPENTANE	6,200,000	380,000	26,000,000	6,700,000 J	14,000,000 J	120 J	130 J	94,000,000 J	78,000,000 J	6,300,000 J	4,200,000	1,600	12,000	100,000,000	21,000	44,000,000	6,400,000 J	120 J	30,000,000 J	9,400
M,P-XYLENE	260,000	35,000	210,000	800,000	560,000	4.1	3.6	480,000 U	650,000 U	45,000 U	26,000 U	1,600	2,000	630,000 U	120 U	310,000 U	41,000 U	120	2,800,000	7,500
O-XYLENE	55,000	12,000	190,000 U	200,000	130,000	3.2 U	3.1 U	480,000 U	650,000 U	45,000 U	26,000 U	670	1,000	630,000 U	120 U	310,000 U	41,000 U	44	750,000	2,600
TOLUENE	70,000	72,000	800,000	200,000	1,100,000	6.4	5.9	2,100,000	590,000	39,000 U	22,000 U	1,000	1,600	1,700,000	110 U	270,000 U	35,000 U	72	2,800,000	6,400
Analytical Method TO15 (rerun)	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
BENZENE	-	-	-	-	-	-	-	-	-	20,000	19 U	-	-	-	-	18,000	-	-	-	-
ETHYL BENZENE	-	-	-	-	-	-	-	-	-	1,400	26 U	-	-	-	-	10,000 U	-	-	-	-
M,P-XYLENE	-	-	-	-	-	-	-	-	-	10,000	970	-	-	-	-	10,000 U	-	-	-	-
O-XYLENE	-	-	-	-	-	-	-	-	-	1,100	340	-	-	-	-	10,000 U	-	-	-	-
TOLUENE	-	-	-	-	-	-	-	-	-	2,600	730	-	-	-	-	9,600	-	-	-	-

Notes:
%-Result is reported as a percent
U-compound was analyzed for but not detected above the reporting limit
J-Estimated value, analyte detected below reporting limit
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-5B
Active Soil Vapor Analytical Results - MP (ug/m3)
January-March 2005

Hartford Working Group
Hartford, Illinois

Location ID	MP-42	MP-42	MP-42	MP-42	MP-43	MP-43	MP-43	MP-44	MP-44	MP-44	MP-44	MP-45	MP-45	MP-45	MP-46	MP-46	MP-46	MP-47	MP-47	MP-47
Point ID	MP-42A	MP-42A	MP-42B	MP-42C	MP-43A	MP-43B	MP-43C	MP-44A	MP-44B	MP-44C	MP-44D	MP-45A	MP-45B	MP-45C	MP-46A	MP-46B	MP-46C	MP-47A	MP-47B	MP-47C
Sample Date	1/20/2005	1/20/2005	1/20/2005	1/27/2005	1/11/2005	1/11/2005	2/22/2005	1/27/2005	1/27/2005	1/27/2005	1/27/2005	1/27/2005	1/27/2005	1/27/2005	1/27/2005	1/27/2005	1/27/2005	1/27/2005	1/27/2005	1/27/2005
Sample ID	012005-MP-42A	012005-MP-42A-Dup	012005-MP-42B	012705-MP-42C	011105-MP43A	011105-MP43B	022205-MP-43C	012705-MP-44A	012705-MP-44B	012705-MP-44C	012705-MP-44D	012705-MP-45A	012705-MP-45B	012705-MP-45C	012705-MP-46A	012705-MP-46B	012705-MP-46C	012705-MP-47A	012705-MP-47B	012705-MP-47C
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method TO14	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1-BUTENE	1,800	1,800	6.8 U	1,700,000	7.2 U	11 U	53,000	3,400	2,700	190,000	31	6.6 U	49,000	1,100,000	7.0 U	100,000	830,000	120,000	610,000	3,100,000
ACETYLENE	92 U	92 U	7.9 U	19,000 U	8.4 U	13 U	780 U	28 U	37 U	1,400 U	7.7 U	7.7 U	410 U	7,900 U	8.1 U	930 U	6,600 U	2,900 U	9,900 U	35,000 U
BUTANE	340,000	350,000	220	76,000,000	1,600	1,200	2,800,000	130,000	160,000	6,200,000	470	100	1,700,000	31,000,000	18 U	3,800,000	27,000,000	12,000,000	38,000,000	140,000,000
CIS-2-BUTENE	6,300	6,400	6.8 U	3,800,000	7.2 U	11 U	150,000	3,800	2,700	330,000	64	8	98,000	2,000,000	7.0 U	190,000	2,100,000	170,000	1,000,000	7,200,000
ETHANE	4,600	4,700	12	430,000	350	360	24,000	850	3,900	75,000	21	8.8 U	33,000	900,000	31	26,000	170,000	84,000	310,000	380,000
ETHENE	99 U	99 U	8.5 U	81,000	9.1 U	14 U	4,800	31 U	1,300	2,900	9.3	10	5,800	33,000	8.7 U	1,300	10,000	6,400	35,000	70,000
ISOBUTANE	140,000	140,000	99	18,000,000	2,300	2,000	590,000	38,000	58,000	2,200,000	120	22	580,000	8,900,000	20	1,000,000	5,900,000	4,900,000	15,000,000	41,000,000
PROPANE	8,700	8,700	18	1,200,000	150	120	58,000	1,800	3,300	220,000	38	13 U	75,000	1,600,000	14 U	78,000	480,000	470,000	1,600,000	2,700,000
PROPYLENE	150 U	150 U	13 U	150,000	14 U	20 U	1,200 U	46 U	86	4,600	16	12 U	2,800	58,000	13 U	1,800	14,000	4,700 U	16,000 U	56,000 U
TRANS-2-BUTENE	8,900	9,000	9.2	4,800,000	7.2 U	11 U	190,000	7,000	5,400	480,000	74	8.5	140,000	2,500,000	7.0 U	250,000	2,400,000	310,000	1,500,000	9,100,000
Analytical Method TO15	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1,2,4-TRIMETHYLBENZENE	7,600 U	7,600 U	320	620,000 U	26 U	29 U	79,000	660 U	9,500	33,000 U	400	36	29,000 U	220,000 U	7.8	47,000 U	370,000 U	54,000 U	140,000 U	870,000 U
1,3,5-TRIMETHYLBENZENE	7,600 U	7,600 U	140	620,000 U	26 U	29 U	58,000	660 U	9,300	33,000 U	150	160	29,000 U	220,000 U	650	47,000 U	370,000 U	54,000 U	140,000 U	870,000 U
1,3-BUTADIENE	3,400 U	3,400 U	1.6 U	280,000 U	12 U	13 U	20,000 U	300 UJ	1,200 UJ	15,000 U	1.6 UJ	1.6 U	13,000 UJ	99,000 UJ	1.7 U	21,000 U	160,000 U	24,000 U	64,000 U	390,000 UJ
BENZENE	5,000 U	5,000 U	94	1,400,000	17 U	19 U	840,000	430 U	1,800 U	26,000	240	15	460,000	970,000	23	30,000 U	2,200,000	35,000 U	980,000	1,500,000
ETHYL BENZENE	6,800 U	6,800 U	78	540,000 U	23 U	26 U	140,000	580 U	13,000	100,000	190	13	99,000	190,000 U	3.3 U	41,000 U	320,000 U	48,000 U	130,000 U	770,000 U
HEXANE	110,000	120,000	54	4,200,000	18 U	21 U	2,500,000	6,100	30,000	130,000	230	9.1	3,000,000	4,100,000	42	500,000	6,500,000	1,400,000	3,000,000	6,700,000
ISOPENTANE	1,200,000	1,100,000	94	72,000,000	4,100	3,500	6,700,000	100,000	120,000	3,500,000	660	19	4,000,000	30,000,000	16	6,100,000	48,000,000	6,500,000	21,000,000	120,000,000
M,P-XYLENE	8,700	8,000	480	540,000 U	23 U	26 U	1,400,000	580 U	79,000	570,000	880	63	360,000	190,000	52	380,000	320,000 U	90,000	270,000	770,000 U
O-XYLENE	6,800 U	6,800 U	190	540,000 U	23 U	26 U	510,000	580 U	21,000	130,000	330	68	46,000	190,000 U	740	130,000	320,000 U	48,000 U	130,000 U	770,000 U
TOLUENE	5,800 U	5,800 U	110	1,400,000	20 U	22 U	2,300,000	500 U	9,300	100,000	670	64	350,000	660,000	47	36,000 U	1,300,000	41,000 U	2,100,000	670,000 U
Analytical Method TO15 (rerun)	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
BENZENE	2,900	3,000	-	-	-	-	-	68 U	740 U	-	-	-	-	-	-	25,000	-	29,000	-	-
ETHYL BENZENE	3,700	3,400	-	-	-	-	-	93 U	14,000	-	-	-	-	-	-	15,000	-	25,000	-	-
M,P-XYLENE	9,000	7,900	-	-	-	-	-	93 U	92,000	-	-	-	-	-	-	360,000	-	100,000	-	-
O-XYLENE	2,100	1,500	-	-	-	-	-	93 U	26,000	-	-	-	-	-	-	110,000	-	27,000	-	-
TOLUENE	1,500 U	1,200	-	-	-	-	-	81 U	2,900	-	-	-	-	-	-	17,000	-	38,000	-	-

Notes:
%-Result is reported as a percent
U-compound was analyzed for but not detected above the reporting limit
J-Estimated value, analyte detected below reporting limit
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-5B
Active Soil Vapor Analytical Results - MP (ug/m3)
January-March 2005

Hartford Working Group
Hartford, Illinois

Location ID	MP-47	MP-48	MP-48	MP-48	MP-49	MP-49	MP-49	MP-50	MP-50	MP-50	MP-51	MP-51	MP-51	MP-51	MP-51	MP-52	MP-52	MP-52	MP-52	MP-52
Point ID	MP-47C	MP-48A	MP-48B	MP-48C	MP-49A	MP-49B	MP-49C	MP-50A	MP-50B	MP-50C	MP-51A	MP-51B	MP-51C	MP-51D	MP-51D	MP-52A	MP-52A	MP-52B	MP-52B	MP-52B
Sample Date	2/22/2005	1/28/2005	1/28/2005	1/28/2005	1/28/2005	1/28/2005	1/28/2005	1/27/2005	1/27/2005	1/27/2005	1/20/2005	1/20/2005	1/20/2005	1/27/2005	1/27/2005	1/11/2005	1/11/2005	1/11/2005	3/11/2005	3/11/2005
Sample ID	022205-MP-47C	012805-MP-48A	012805-MP-48B	012805-MP-48C	012805-MP-49A	012805-MP-49B	012805-MP-49C	012705-MP-50A	012705-MP-50B	012705-MP-50C	012005-MP-51A	012005-MP-51B	012005-MP-51C	012705-MP-51D-Dup	012705-MP-51D	011105-MP-52A DUP	011105-MP-52A	011105-MP-52B	031105 MP-52B	031105 MP-52B Dup
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method TO14	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1-BUTENE	1,700,000	19,000	2,000,000	360	780	9,000	14,000,000	30,000	5,200	2,700	24	1,400	1,400,000	2,800,000	3,200,000	2,900,000	3,000,000	3,400,000	8,300,000	8,300,000
ACETYLENE	22,000 U	290 U	17,000 U	9.5 U	490 U	770 U	85,000 U	660 U	2,300 U	14 U	8.7 U	40 U	11,000 U	18,000 U	18,000 U	34,000 U	39,000 U	23,000 U	42,000 U	41,000 U
BUTANE	82,000,000	1,400,000	64,000,000	16,000	2,000,000	3,100,000	320,000,000	3,000,000	9,900,000	62,000	780	160,000	41,000,000	80,000,000	78,000,000	120,000,000	130,000,000	92,000,000	170,000,000	170,000,000
CIS-2-BUTENE	4,100,000	40,000	3,900,000	820	1,300	43,000	18,000,000	40,000	6,100	5,800	64	1,800	2,600,000	6,300,000	6,500,000	2,600,000	2,700,000	5,400,000	11,000,000	11,000,000
ETHANE	210,000	1,200	98,000	68	5,900	9,800	730,000	47,000	130,000	550	25	4,900	190,000	300,000	720,000	760,000	820,000	600,000	1,100,000	1,100,000
ETHENE	35,000	310 U	41,000	25	530 U	840	320,000	9,400	2,500 U	56	9.4 U	280	40,000	81,000	290,000	180,000	190,000	200,000	460,000	450,000
ISOBUTANE	21,000,000	390,000	17,000,000	4,400	820,000	680,000	100,000,000	1,100,000	5,200,000	14,000	150	72,000	10,000,000	19,000,000	19,000,000	47,000,000	50,000,000	30,000,000	59,000,000	59,000,000
PROPANE	1,700,000	19,000	1,100,000	460	14,000	18,000	6,300,000	59,000	180,000	700	17	10,000	930,000	1,600,000	2,600,000	4,200,000	4,400,000	2,800,000	6,700,000	6,700,000
PROPYLENE	35,000 U	460 U	35,000	15 U	800 U	1,200 U	140,000	2,100	4,000	23 U	14 U	77	27,000	65,000	510,000	63,000	65,000	75,000	220,000	220,000
TRANS-2-BUTENE	5,200,000	60,000	4,600,000	1,000	3,400	110,000	24,000,000	62,000	10,000	7,200	77	3,400	3,200,000	7,200,000	7,700,000	5,000,000	5,200,000	7,500,000	16,000,000	16,000,000
Analytical Method TO15	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1,2,4-TRIMETHYLBENZENE	510,000 U	12,000 U	650,000 U	29,000	34,000 U	28,000 U	1,100,000 U	16,000 U	99,000 U	41,000	1,200	8,000	410,000 U	560,000 U	470,000 U	400,000 U	400,000 U	390,000 U	720,000 U	670,000 U
1,3,5-TRIMETHYLBENZENE	510,000 U	12,000 U	650,000 U	11,000	34,000 U	28,000 U	1,100,000 U	16,000 U	99,000 U	14,000	470	3,300	410,000 U	560,000 U	470,000 U	400,000 U	400,000 U	390,000 U	720,000 U	670,000 U
1,3-BUTADIENE	230,000 U	5,400 U	290,000 U	130 U	15,000 U	13,000 U	510,000 U	7,400 UJ	44,000 U	220 U	5.2 U	930 U	180,000 U	250,000 UJ	210,000 UJ	180,000 U	180,000 U	180,000 U	320,000 U	300,000 U
BENZENE	1,700,000	7,700 U	2,100,000	1,500	22,000 U	18,000 U	740,000 U	11,000 U	64,000 U	5,600	310	2,600	490,000	2,400,000	2,400,000	260,000 U	260,000 U	520,000	1,000,000	1,000,000
ETHYL BENZENE	450,000 U	10,000 U	580,000 U	4,400	30,000 U	25,000 U	1,000,000 U	14,000 U	87,000 U	16,000	720	14,000	360,000 U	490,000 U	410,000 U	350,000 U	360,000 U	340,000 U	630,000 U	590,000 U
HEXANE	5,500,000	180,000	6,000,000	11,000	36,000	140,000	4,400,000	160,000	71,000 U	15,000	790	200,000	5,300,000	6,400,000	6,600,000	4,600,000	4,900,000	4,900,000	8,700,000	8,600,000
ISOPENTANE	76,000,000	2,000,000	77,000,000	25,000	4,000,000	3,200,000	130,000,000	3,000,000	13,000,000	75,000	1,700	220,000	47,000,000	84,000,000	88,000,000	65,000,000	68,000,000	63,000,000	120,000,000	120,000,000
M,P-XYLENE	450,000 U	10,000 U	580,000 U	73,000	30,000 U	25,000 U	1,000,000 U	14,000 U	87,000 U	71,000	2,900	52,000	360,000 U	490,000 U	410,000 U	350,000 U	360,000 U	340,000 U	630,000 U	590,000 U
O-XYLENE	450,000 U	10,000 U	580,000 U	26,000	30,000 U	25,000 U	1,000,000 U	14,000 U	87,000 U	27,000	940	13,000	360,000 U	490,000 U	410,000 U	350,000 U	360,000 U	340,000 U	630,000 U	590,000 U
TOLUENE	1,400,000	9,100 U	860,000	8,200	26,000 U	22,000 U	870,000 U	13,000 U	76,000 U	43,000	1,300	21,000	880,000	1,000,000	980,000	300,000 U	310,000 U	480,000	980,000	1,000,000
Analytical Method TO15 (rerun)	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
BENZENE	-	1,400	-	-	440 U	5,100	240,000	770 U	10,000	-	-	-	-	-	-	87,000	110,000	-	-	-
ETHYL BENZENE	-	1,000 U	-	-	600 U	2,500 U	100,000 U	1,000 U	1,000 U	-	-	-	-	-	-	70,000 U	54,000	-	-	-
M,P-XYLENE	-	5,000	-	-	740	11,000	100,000 U	1,000 U	2,600	-	-	-	-	-	-	70,000 U	140,000	-	-	-
O-XYLENE	-	16,000	-	-	600 U	4,600	100,000 U	1,000 U	2,200	-	-	-	-	-	-	70,000 U	35,000	-	-	-
TOLUENE	-	910 U	-	-	520 U	3,400	94,000	900 U	870 U	-	-	-	-	-	-	61,000 U	66,000	-	-	-

Notes:
%-Result is reported as a percent
U-compound was analyzed for but not detected above the reporting limit
J-Estimated value, analyte detected below reporting limit
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-5B
Active Soil Vapor Analytical Results - MP (ug/m3)
January-March 2005

Hartford Working Group
Hartford, Illinois

Location ID	MP-52	MP-53	MP-53	MP-53	MP-54	MP-54	MP-54	MP-55	MP-55	MP-55	MP-56	MP-56	MP-56	MP-57	MP-57	MP-57	MP-58	MP-58	MP-58	MP-59	MP-59
Point ID	MP-52C	MP-53A	MP-53B	MP-53C	MP-54A	MP-54B	MP-54C	MP-55A	MP-55B	MP-55C	MP-56A	MP-56B	MP-56C	MP-57A	MP-57B	MP-57C	MP-58A	MP-58B	MP-58C	MP-59A	MP-59A
Sample Date	1/27/2005	1/12/2005	1/12/2005	1/27/2005	1/10/2005	1/10/2005	1/27/2005	1/10/2005	1/10/2005	1/27/2005	1/10/2005	1/10/2005	1/27/2005	1/10/2005	1/10/2005	1/27/2005	1/19/2005	1/19/2005	1/19/2005	1/11/2005	1/19/2005
Sample ID	012705-MP-52C	011105-MP-53A	011105-MP-53B	012705-MP-53C	011005-MP-54A	011005-MP-54B	012705-MP-54C	011005-MP-55A	011005-MP-55B	012705-MP-55C	011005-MP-56A	011005-MP-56B	012705-MP-56C	011005-MP-57A	011005-MP-57B	012705-MP-57C	011905-MP-58A	011905-MP-58B	011905-MP-58C	011105-MP-59A	011905-MP-59A
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method TO14	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1-BUTENE	240,000	170	26,000	2,800,000	10 U	16,000	58	1,900,000	3,300,000	3,400,000	980	1,600,000	690,000	150,000	33,000	67,000	100	4,300	150,000	7.3 U	17
ACETYLENE	1,000 U	13 U	210 U	13,000 U	12 U	230 U	8.1 U	22,000 U	32,000 U	32,000 U	12 U	19,000 U	5,500 U	1,700 U	280 U	580 U	7.9 U	110 U	2,600 U	8.6 U	8.2 U
BUTANE	4,300,000	4,500	960,000	54,000,000	140	1,100,000	1800	84,000,000	130,000,000	130,000,000	53,000	79,000,000	22,000,000	7,500,000	1,400,000	2,400,000	15,000	400,000	9,800,000	230	28,000
CIS-2-BUTENE	390,000	370	74,000	5,000,000	15	23,000	140	3,400,000	6,300,000	7,200,000	2,200	3,400,000	1,400,000	360,000	76,000	130,000	380	19,000	510,000	23	46
ETHANE	26,000	28	22,000	480,000	20	41,000	17	780,000	1,000,000	1,000,000	140	1,100,000	500,000	180,000	17,000	12,000	950	12,000	140,000	9.9 U	530
ETHENE	12,000	14 U	5,400	92,000	13 U	2,500	8.7 U	52,000	160,000	180,000	92	62,000	32,000	32,000	8,200	9,200	130	2,800	26,000	9.2 U	8.9 U
ISOBUTANE	1,300,000	1,100	180,000	14,000,000	61	520,000	440	33,000,000	48,000,000	44,000,000	13,000	24,000,000	7,600,000	3,000,000	440,000	820,000	4,500	82,000	2,300,000	36	8,700
PROPANE	120,000	90	18,000	1,200,000	20 U	110,000	59	3,000,000	4,700,000	4,300,000	440	3,100,000	1,500,000	420,000	66,000	91,000	270	5,700	180,000	14 U	210
PROPYLENE	6,700	20 U	540	81,000	19 U	1,000	13 U	61,000	110,000	120,000	50	30,000 U	30,000	4,800	970	1,400	13	180 U	4,200 U	14 U	13 U
TRANS-2-BUTENE	480,000	500	84,000	6,100,000	16	37,000	160	4,700,000	8,200,000	8,900,000	2,500	4,700,000	1,800,000	430,000	91,000	160,000	520	22,000	600,000	28	150
Analytical Method TO15	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1,2,4-TRIMETHYLBENZENE	26,000 U	500	39,000 U	270,000 U	790	11,000	7,800	280,000 U	570,000 U	690,000	2,400 U	650,000 U	110,000 U	49,000 U	6,500 U	17,000	1,200 U	15,000 U	150,000 U	170	630 U
1,3,5-TRIMETHYLBENZENE	26,000 U	360	39,000 U	270,000 U	660	14,000	3,000	280,000 U	570,000 U	630,000 U	2,400 U	650,000 U	110,000 U	49,000 U	6,500 U	12,000 U	1,200 U	15,000 U	150,000 U	79	630 U
1,3-BUTADIENE	12,000 U	21 U	18,000 U	120,000 U	9.7 U	2,000 U	17 U	130,000 U	260,000 U	280,000 U	1,100 U	290,000 U	51,000 U	22,000 U	2,900 U	5,400 U	550 U	6,800 U	67,000 U	3.6 U	280 U
BENZENE	88,000	2,800	320,000	670,000	560	49,000	970	630,000	1,600,000	2,200,000	7,700	750,000	460,000	88,000	74,000	49,000	790 U	880,000	2,400,000	430	410 U
ETHYL BENZENE	55,000	1,300	34,000 U	240,000 U	710	16,000	2,300	250,000 U	500,000 U	560,000 U	2,100 U	570,000 U	99,000 U	120,000	6,700	10,000 U	1,100 U	110,000	130,000 U	240	560 U
HEXANE	180,000	3,500	3,500,000	1,800,000	290	240,000	1,100	3,300,000	4,600,000	5,800,000	14,000	6,800,000	1,400,000	770,000	200,000	110,000	77,000	2,500,000	6,000,000	490	2,300
ISOPENTANE	2,800,000	5,700	6,100,000	29,000,000	220	760,000	2,800	34,000,000	61,000,000	110,000,000	310,000	77,000,000	19,000,000	7,300,000	1,100,000	1,700,000	160,000	2,500,000	23,000,000	520	110,000
M,P-XYLENE	180,000	4,900	85,000	240,000 U	3,800	140,000	11,000	250,000 U	500,000 U	560,000 U	3,100	570,000 U	130,000	290,000	30,000	49,000	1,100 U	480,000	170,000	940	560 U
O-XYLENE	58,000	1,600	34,000 U	240,000 U	1,000	22,000	4,600	250,000 U	500,000 U	560,000 U	2,100 U	570,000 U	99,000 U	93,000	8,600	18,000	1,100 U	140,000	130,000 U	300	560 U
TOLUENE	240,000	8,500	380,000	440,000	2,400	13,000	3,400	610,000	820,000	980,000	7,500	500,000 U	400,000	230,000	120,000	66,000	940 U	1,400,000	1,200,000	1,200	490 U
Analytical Method TO15 (rerun)	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
BENZENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	420	-	-	-	50 U
ETHYL BENZENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	220 U	-	-	-	67 U
M,P-XYLENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	450	-	-	-	67 U
O-XYLENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	290	-	-	-	67 U
TOLUENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	570	-	-	-	58 U

Notes:
%-Result is reported as a percent
U-compound was analyzed for but not detected above the reporting limit
J-Estimated value, analyte detected below reporting limit
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-5B
Active Soil Vapor Analytical Results - MP (ug/m3)
January-March 2005

Hartford Working Group
Hartford, Illinois

Location ID	MP-59	MP-59	MP-60	MP-60	MP-60	MP-60	MP-60	MP-60	MP-61	MP-61	MP-61	MP-61	MP-61	MP-62	MP-62	MP-62	MP-62	MP-62	MP-62	MP-62
Point ID	MP-59B	MP-59C	MP-60A	MP-60A	MP-60B	MP-60B	MP-60C	MP-60C	MP-61A	MP-61A	MP-61B	MP-61B	MP-61C	MP-62A	MP-62A	MP-62A	MP-62B	MP-62B	MP-62B	MP-62C
Sample Date	1/19/2005	1/19/2005	1/12/2005	1/19/2005	1/12/2005	1/19/2005	1/12/2005	1/19/2005	1/11/2005	1/19/2005	1/11/2005	1/19/2005	1/19/2005	1/12/2005	1/12/2005	1/19/2005	1/12/2005	1/19/2005	1/19/2005	1/12/2005
Sample ID	011905-MP-59B	011905-MP-59C	011205-MP60A	011905-MP-60A	011205-MP60B	011905-MP-60B	011205-MP60C	011905-MP-60C	011105-MP-61A	011905-MP-61A	011105-MP-61B	011905-MP-61B	011905-MP-61C	011205-MP62A	011205-MP62A DUP	011905-MP-62A	011205-MP62B	011905-MP-62B	011905-MP-62B-DUP	011205-MP62C
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method TO14	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1-BUTENE	19,000	190,000	11 U	24	2,100,000	2,200,000	3,000,000	2,900,000	16	7.1 U	7.1 U	14	10 U	11 U	11 U	11 U	360 U	310 U	370 U	740 U
ACETYLENE	1,600 U	5,400 U	13 U	13 U	28,000 U	28,000 U	36,000 U	35,000 U	8.1 U	8.2 U	8.2 U	7.9 U	12 U	13 U	13 U	13 U	420 U	360 U	430 U	860 U
BUTANE	6,400,000	20,000,000	72	1,100	110,000,000	110,000,000	130,000,000	140,000,000	820	79	840	390	1,700	92	78	110	2,000,000	1,500,000	1,600,000	3,400,000
CIS-2-BUTENE	110,000	850,000	11 U	71	5,100,000	5,400,000	6,900,000	6,900,000	57	7.1 U	7.1 U	26	10 U	11 U	11 U	11 U	600	330	370 U	2,800
ETHANE	58,000	120,000	140	31	300,000	310,000	700,000	520,000	24	20	3,600	3,400	2,400	15 U	15 U	15 U	10,000	9,400	9,800	11,000
ETHENE	1,700 U	7,200	14 U	14 U	56,000	59,000	110,000	81,000	8.7 U	8.9 U	140	13	14	14 U	14 U	14 U	450 U	390 U	460 U	920 U
ISOBUTANE	1,400,000	3,800,000	26	250	30,000,000	31,000,000	40,000,000	39,000,000	150	29	1,700	730	3,900	16	11 U	31	860,000	760,000	800,000	940,000
PROPANE	33,000	96,000	35	22 U	2,200,000	2,300,000	3,600,000	3,100,000	15	14 U	30	17	33	22 U	21 U	22 U	12,000	9,700	10,000	18,000
PROPYLENE	2,600 U	8,700 U	21 U	21 U	45,000 U	45,000 U	59,000 U	57,000 U	13 U	13 U	13 U	13 U	19 U	21 U	20 U	21 U	680 U	580 U	690 U	1,400 U
TRANS-2-BUTENE	180,000	1,100,000	11 U	87	6,400,000	6,700,000	8,600,000	8,600,000	66	7.1 U	7.1 U	32	10 U	11 U	11 U	11 U	1,800	940	990	9,200
Analytical Method TO15	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1,2,4-TRIMETHYLBENZENE	190,000 U	530,000 U	7.8	53	1,200,000 U	550,000 U	990,000 U	750,000 U	110	3.8 U	150 U	910 U	1,100 U	5.9 U	5.8 U	6.1 U	120,000 U	52,000 U	54,000 U	120,000 U
1,3,5-TRIMETHYLBENZENE	190,000 U	530,000 U	28	38	1,200,000 U	550,000 U	990,000 U	750,000 U	57	3.8 U	150 U	910 U	1,100 U	5.9 U	5.8 U	6.1 U	120,000 U	52,000 U	54,000 U	120,000 U
1,3-BUTADIENE	84,000 U	240,000 U	2.7 U	5.4 U	550,000 U	250,000 U	440,000 U	340,000 U	4.2 U	1.7 U	68 U	410 U	500 U	2.7 U	2.6 U	2.7 U	53,000 U	23,000 U	24,000 U	54,000 U
BENZENE	130,000	1,800,000	3.9 U	620	2,200,000	1,400,000	3,000,000	2,100,000	580	2.5 U	99 U	590 U	720 U	34	33	16	76,000 U	34,000 U	35,000 U	77,000 U
ETHYL BENZENE	160,000 U	470,000 U	5.4 U	300	1,100,000 U	490,000 U	870,000 U	660,000 U	210	3.4 U	130 U	810 U	970 U	6.1	6.1	6.2	100,000 U	46,000 U	48,000 U	100,000 U
HEXANE	1,900,000	7,000,000	8	780	8,500,000	6,000,000	8,300,000	6,200,000	620	2.7 U	110 U	660 U	790 U	62	60	15	84,000 U	37,000 U	39,000 U	1,000,000
ISOPENTANE	20,000,000	53,000,000	61	2,200	120,000,000	100,000,000	140,000,000	110,000,000	1,200	2.3 U	24,000	5,000	54,000	300	280	82	12,000,000	8,900,000	9,200,000	15,000,000
M,P-XYLENE	160,000 U	470,000 U	11	1,000	1,100,000 U	490,000 U	870,000 U	660,000 U	740	3.4 U	160	810 U	970 U	22	21	23	100,000 U	46,000 U	48,000 U	100,000 U
O-XYLENE	160,000 U	470,000 U	11	310	1,100,000 U	490,000 U	870,000 U	660,000 U	230	3.4 U	130 U	810 U	970 U	6.7	7.5	8.2	100,000 U	46,000 U	48,000 U	100,000 U
TOLUENE	140,000 U	1,200,000	8.2	1,600	1,300,000	630,000	2,300,000	960,000	1,200	2.9 U	140	700 U	840 U	54	53	43	90,000 U	40,000 U	41,000 U	91,000 U
Analytical Method TO15 (rerun)	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
BENZENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,800 U	1,300	1,300	5,300
ETHYL BENZENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5,200 U	810 U	960 U	2,600 U
M,P-XYLENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5,200 U	810 U	960 U	2,600 U
O-XYLENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5,200 U	810 U	960 U	2,600 U
TOLUENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4,500 U	1,000	860	2,300 U

Notes:
%-Result is reported as a percent
U-compound was analyzed for but not detected above the reporting limit
J-Estimated value, analyte detected below reporting limit
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
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TABLE 3-5B
Active Soil Vapor Analytical Results - MP (ug/m3)
January-March 2005

Hartford Working Group
Hartford, Illinois

Location ID	MP-62	MP-63	MP-63	MP-63	MP-63	MP-64	MP-64	MP-64	MP-64	MP-65	MP-65	MP-65	MP-66	MP-66	MP-66	MP-67	MP-67	MP-67	MP-68	MP-69	MP-70
Point ID	MP-62C	MP-63A	MP-63B	MP-63C	MP-63C	MP-64A	MP-64A	MP-64B	MP-64C	MP-65A	MP-65B	MP-65C	MP-66A	MP-66B	MP-66C	MP-67A	MP-67B	MP-67C	MP-68	MP-69	Mp-70
Sample Date	1/19/2005	2/22/2005	2/22/2005	2/22/2005	2/22/2005	1/6/2005	1/19/2005	1/19/2005	1/19/2005	1/11/2005	1/11/2005	2/22/2005	1/20/2005	1/20/2005	2/22/2005	2/22/2005	2/22/2005	2/22/2005	2/22/2005	2/22/2005	2/22/2005
Sample ID	011905-MP-62C	022205-MP-63A	022205-MP-63B	022205-MP-63C	022205-MP-63CDUP	010605-MP64A	011905-MP-64A	011905-MP-64B	011905-MP-64C	011105-MP65A	011105-MP65B	022205-MP-65C	012005-MP-66A	012005-MP-66B	022205-MP-66C	022205-MP-67A	022205-MP-67B	022205-MP-67C	022205-MP-68	022205-MP-69	022205-MP-70
Sample Matrix	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method TO14	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1-BUTENE	710 U	6.8 U	6.6 U	41	36	-	550,000	1,200,000	1,500,000	7.2 U	6.8 U	5.7 U	6.2 U	7.4 U	7.0 U	6.6 U	6.5 U	6.7 U	460 U	3,200	1,400
ACETYLENE	820 U	7.9 U	7.7 U	7.5 U	8.1 U	-	13,000 U	30,000 U	28,000 U	8.4 U	7.9 U	6.6 U	7.2 U	8.6 U	8.1 U	7.7 U	7.5 U	7.8 U	530 U	1,600 U	1,600 U
BUTANE	3,400,000	230	260	29,000	29,000	-	52,000,000	91,000,000	100,000,000	19 U	18 U	190	150	260	81	77	98	64	2,200,000	6,100,000	6,700,000
CIS-2-BUTENE	2,500	11	12	18	11	-	1,400,000	3,200,000	4,000,000	7.2 U	6.8 U	8.5	6.2 U	7.4 U	7.3	6.6 U	6.5 U	6.7 U	460 U	1,600	1,400 U
ETHANE	10,000	9.1 U	9.6	110	120	-	130,000	200,000	220,000	9.7 U	9.2 U	7.7 U	8.4 U	9.9 U	24	79	12	9.0 U	28,000	56,000	75,000
ETHENE	890 U	8.5 U	8.3 U	8.1 U	8.7 U	-	14,000 U	32,000 U	30,000 U	9.1 U	8.5 U	24	7.8 U	9.2 U	73	27	12	22	570 U	1,700 U	1,700 U
ISOBUTANE	930,000	86	110	27,000	26,000	-	16,000,000	28,000,000	32,000,000	7.5 U	7.1 U	43	74	130	36	28	42	23	1,800,000	3,600,000	4,800,000
PROPANE	17,000	13 U	14	920	940	-	1,100,000	1,800,000	2,000,000	14 U	13 U	11 U	12 U	16	30	80	13 U	13 U	24,000	64,000	93,000
PROPYLENE	1,300 U	13 U	12 U	12 U	13 U	-	21,000 U	48,000 U	45,000 U	14 U	13 U	11 U	12 U	14 U	13 U	12 U	12 U	12 U	850 U	2,500 U	2,600 U
TRANS-2-BUTENE	8,000	14	15	22	13	-	2,100,000	4,500,000	5,400,000	7.2 U	6.8 U	7.6	6.2 U	7.4 U	7.0 U	6.6 U	6.5 U	6.7 U	770	2,800	1,800
Analytical Method TO15	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1,2,4-TRIMETHYLBENZENE	79,000 U	68	19	560	940	69,000 U	460,000 U	790,000 U	750,000 U	3.9 U	3.7 U	290	3.3 U	4.0 U	940	45	79	60	54,000 U	72,000 U	180,000 U
1,3,5-TRIMETHYLBENZENE	79,000 U	33	8	410 U	500 U	69,000 U	460,000 U	790,000 U	750,000 U	3.9 U	3.7 U	98	3.3 U	4.0 U	310	13	21	21	54,000 U	72,000 U	180,000 U
1,3-BUTADIENE	36,000 U	1.8 U	1.6 U	180 U	220 U	31,000 U	200,000 U	360,000 U	340,000 U	1.7 U	1.6 U	2.2 U	1.5 U	1.8 U	1.7 U	1.6 U	1.6 U	1.6 U	24,000 U	32,000 U	82,000 U
BENZENE	52,000 U	18	3.4	260 U	320 U	190,000	520,000	1,900,000	1,800,000	2.5 U	2.4 U	88	2.2 U	2.9	34	11	9	14	35,000 U	47,000 U	120,000 U
ETHYL BENZENE	70,000 U	190	5.6	360 U	440 U	61,000 U	400,000 U	700,000 U	660,000 U	3.4 U	3.2 U	230	3.0 U	3.5 U	300	20	25	66	48,000 U	63,000 U	160,000 U
HEXANE	570,000	11	2.5 U	1,400	1,600	870,000	4,200,000	7,700,000	7,100,000	2.8 U	2.6 U	380	2.4 U	2.8 U	62	7.6	5.6	18	39,000 U	51,000 U	200,000
ISOPENTANE	11,000,000	7.4	4.8	67,000	74,000	11,000,000	53,000,000	110,000,000	100,000,000	2.3 U	2.2 U	690	2.0 U	3.5	89	15	15	36	6,800,000	12,000,000	34,000,000
M,P-XYLENE	70,000 U	740	45	360 U	440 U	61,000 U	400,000 U	700,000 U	660,000 U	4.7	3.2 U	760	3.0 U	4.9	1,100	80	98	270	48,000 U	63,000 U	160,000 U
O-XYLENE	70,000 U	260	14	360 U	440 U	61,000 U	400,000 U	700,000 U	660,000 U	3.4 U	3.2 U	280	3.0 U	3.5 U	460	30	41	71	48,000 U	63,000 U	160,000 U
TOLUENE	61,000 U	180	16	310 U	380 U	53,000 U	350,000 U	830,000	840,000	7.2	2.8 U	630	2.6 U	7.3	380	53	58	59	42,000 U	55,000 U	140,000 U
Analytical Method TO15 (rerun)	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
BENZENE	3,800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8,200	34,000	12,000
ETHYL BENZENE	1,700 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	260 U	2,500 U	2,600 U
M,P-XYLENE	1,700 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	340	2,500 U	2,600 U
O-XYLENE	1,700 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	260 U	2,500 U	2,600 U
TOLUENE	1,500 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	220 U	2,200 U	2,200 U

Notes:
%-Result is reported as a percent
U-compound was analyzed for but not detected above the reporting limit
J-Estimated value, analyte detected below reporting limit
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-5B
Active Soil Vapor Analytical Results - MP (ug/m3)
January-March 2005

Hartford Working Group
Hartford, Illinois

Location ID	MP-71	MP-72	MP-73	MP-73	MP-74	MP-75	MP-76
Point ID	MP-71	MP-72	MP-73	MP-73	MP-74	MP-75	MP-76
Sample Date	2/22/2005	2/22/2005	2/22/2005	2/22/2005	2/22/2005	2/22/2005	2/22/2005
Sample ID	022205-MP-71	022205-MP-72	022205-MP-73	022205-MP-73 DUP	022205-MP-74	022205-MP-75	022205-MP-76
Sample Matrix	GS	GS	GS	GS	GS	GS	GS
Sample Class	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor
Analytical Method TO14	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1-BUTENE	4,800	24,000	12,000	11,000	200	910 U	240 U
ACETYLENE	1,800 U	11,000 U	10,000 U	10,000 U	210 U	1,000 U	280 U
BUTANE	8,000,000	46,000,000	32,000,000	36,000,000	780,000	840,000	100,000
CIS-2-BUTENE	17,000	69,000	21,000	25,000	560	910 U	240 U
ETHANE	19,000	110,000	140,000	150,000	5,300	67,000	36,000
ETHENE	1,900 U	12,000 U	11,000 U	11,000 U	220 U	1,100 U	300 U
ISOBUTANE	1,400,000	8,000,000	7,800,000	8,800,000	270,000	3,600,000	800,000
PROPANE	49,000	320,000	110,000	120,000	4,200	28,000	5,300
PROPYLENE	2,900 U	18,000 U	17,000 U	17,000 U	330 U	1,700 U	440 U
TRANS-2-BUTENE	41,000	200,000	62,000	66,000	1,200	910 U	240 U
Analytical Method TO15	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
1,2,4-TRIMETHYLBENZENE	75,000 U	440,000 U	450,000 U	360,000 U	16,000	180,000 U	54,000 U
1,3,5-TRIMETHYLBENZENE	75,000 U	440,000 U	450,000 U	360,000 U	15,000 U	180,000 U	54,000 U
1,3-BUTADIENE	34,000 U	200,000 U	200,000 U	160,000 U	6,800 U	82,000 U	24,000 U
BENZENE	880,000	1,900,000	1,200,000	1,200,000	430,000	120,000 U	35,000 U
ETHYL BENZENE	66,000 U	390,000 U	400,000 U	320,000 U	13,000 U	160,000 U	48,000 U
HEXANE	260,000	3,900,000	2,100,000	2,200,000	11,000 U	130,000 U	39,000 U
ISOPENTANE	11,000,000	70,000,000	69,000,000	71,000,000	1,500,000	26,000,000	6,400,000
M,P-XYLENE	66,000 U	390,000 U	400,000 U	320,000 U	35,000	160,000 U	48,000 U
O-XYLENE	66,000 U	390,000 U	400,000 U	320,000 U	13,000 U	160,000 U	48,000 U
TOLUENE	57,000 U	340,000 U	340,000 U	280,000 U	12,000 U	140,000 U	42,000 U
Analytical Method TO15 (rerun)	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
BENZENE	-	-	-	-	-	58,000	7,000
ETHYL BENZENE	-	-	-	-	-	250	2,700 U
M,P-XYLENE	-	-	-	-	-	29,000	2,700 U
O-XYLENE	-	-	-	-	-	1,800	2,700 U
TOLUENE	-	-	-	-	-	1,000	2,300 U

Notes:
%-Result is reported as a percent
U-compound was analyzed for but not detected above the reporting limit
J-Estimated value, analyte detected below reporting limit
UJ-Non detected compound associated with low bias in the CCV
ppbv-parts per billion volume
ppmv-part per million volume
S-Shallow depth vapor monitoring port
M-Medium depth vapor monitoring port
D-Deep depth vapor monitoring port

TABLE 3-6
VMPS AND MPS NOT SAMPLED

Hartford Working Group
Hartford, Illinois

Vapor Ports Not Sampled Due to Water Saturation	Vapor Ports That Would Not Yield Sample
VP-3	VMP-2S
VP-4D	VMP-24S
VMP-11	VMP-25S
VMP-12S	VMP-27M
VMP-15VS	VMP-43D
VMP-17VS	VMP-66D
VMP-17S	VMP-70VS
VMP-26S	VMP-80D
VMP-27D	VMP-82D
VMP-33VS	MP-6D
VMP-33VS	MP-10D
VMP-33S	
VMP-33M	
VMP-33D	
VMP-35S	
VMP-36VS	
VMP-36M	
VMP-36D	
VMP-56M	
VMP-60VS	
VMP-60S	
VMP-60M	
VMP-63VS	
VMP-63S	
VMP-64M	
VMP-65D	
VMP-76D (Product)	
MP-9S	

TABLE 3-7
PRAXAIR POINT SOIL VAPOR ANALYTICAL RESULTS

Hartford Working Group
Hartford, Illinois

Location ID	PA-40		PA-46		PA-50		PA-53		PA-60		PA-61		PA-67		PA-69		PA-69	
Sample ID	082604PA-40		022205-PA-46		082604PA50		022205-PA-53		082604PA-60		022205-PA-61		022205-PA-67		082604PA-69		082604PA-69-DUPE	
Sample Date	26-Aug-04		22-Feb-05		26-Aug-04		22-Feb-05		26-Aug-04		22-Feb-05		22-Feb-05		26-Aug-04		26-Aug-04	
Sample Matrix	GS		GS		GS		GS		GS		GS		GS		GS		GS	
Sample Class	Soil Vapor		Soil Vapor		Soil Vapor		Soil Vapor		Soil Vapor		Soil Vapor		Soil Vapor		Soil Vapor		Soil Vapor	
Analytical Method - D1946	%		%		%		%		%		%		%		%		%	
CARBON DIOXIDE	9.5		4.8		0.28		2.9		4.7		0.039		0.2		1.8		1.7	
METHANE	0.00073		0.021		0.00021		0.0015		0.00015 U		0.0002		0.00019		0.00021		0.00018	
OXYGEN	8.6		13		20		15		16		21		21		18		18	
Method - TO14	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
1-BUTENE	-	-	18,000	41,000	3.4 U	8 U	3 U	6.8 U	-	-	2.5 U	5.7 U	2.6 U	5.9 U	12	27	2.7 U	6.3 U
ACETYLENE	-	-	580 U	610 U	-	-	7.4 U	7.9 U	-	-	6.2 U	6.6 U	6.4 U	6.9 U	-	-	-	-
BUTANE	-	-	1,100,000	2,700,000	98	240	410	970	-	-	39	94	69	160	200	490	7.3	18
CIS-2-BUTENE	-	-	20,000	46,000	3.4 U	8 U	3 U	6.8 U	-	-	2.5 U	5.7 U	2.8	6.4	27	64	2.7 U	6.3 U
ETHANE	-	-	2,300	2,800	-	-	32	40	-	-	6.2 U	7.7 U	9.2	11	-	-	-	-
ETHENE	-	-	580 U	660 U	-	-	7.4 U	8.5 U	-	-	6.2 U	7.2 U	6.4 U	7.4 U	-	-	-	-
ISOBUTANE	-	-	570,000	1,400,000	28	68	1,900	4,500	-	-	20	48	32	76	24	57	3.8	9.2
PROPANE	-	-	41,000	73,000	-	-	78	140	-	-	7.9	14	7.4	13	48	110	2.7 U	6.3 U
PROPYLENE	-	-	580 U	990 U	-	-	7.4 U	13 U	-	-	6.2 U	11 U	6.4 U	11 U	-	-	-	-
TRANS-2-BUTENE	-	-	37,000	86,000	3.5	8.2	3 U	6.8 U	-	-	2.5 U	5.7 U	3.8	8.7	-	-	-	-
Method - TO15 (short list)	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
ISOPENTANE	77	230	770,000	2,300,000	190	580	920	2,700	3 U	9.1 U	0.62 U	1.8 U	20	59	110	340	13	38
1,2,4-TRIMETHYLBENZENE	5	25	2,600 U	13,000 U	5	25	3 U	15 U	0.76 U	3.8 U	0.62 U	3.1 U	0.7	3.4	22	110	5	25
1,3,5-TRIMETHYLBENZENE	1.7	8.7	2,600 U	13,000 U	3.1	15	3 U	15 U	0.76 U	3.8 U	0.62 U	3.1 U	0.64 U	3.2 U	9.7	48	3.5	17
1,3-BUTADIENE	0.96 U	2.1 U	2,600 U	5,700 U	1.1 U	2.6 U	3 U	6.6 U	0.76 U	1.7 U	0.62 U	1.4 U	0.64 U	1.4 U	1.4 U	3.1 U	0.68 U	1.5 U
BENZENE	0.96 U	3.1 U	2,600 U	8,200 U	5.8 U	19	3 U	9.5 U	0.76 U	2.5 U	0.62 U	2 U	2.8	9	28	93	6.9	22
ETHYL BENZENE	0.96 U	4.2 U	2,600 U	11,000 U	1.4 U	6.1	3 U	13 U	0.76 U	3.4 U	0.62 U	2.7 U	0.82	3.5	9.8	43	5.3	24
HEXANE	17	60	9,500	33,000	130	470	4.8	17	0.76 U	2.7 U	0.62 U	2.2 U	8	28	33	120	20	70
M,P-XYLENE	1.2	5.1	2,600 U	11,000 U	20 U	88	3 U	13 U	0.76 U	3.4 U	0.62 U	2.7 U	3.4	15	59	260	20	88
O-XYLENE	0.96 U	4.2 U	2,600 U	11,000 U	5.5	24	3 U	13 U	0.76 U	3.4 U	0.62 U	2.7 U	1	4.6	14	64	7.9	35
TOLUENE	1.2	4.4	2,600 U	9,700 U	9.4 U	36	3	11	0.76 U	2.9 U	0.62 U	2.4 U	6.2	23	60	230	23	90
Method - TO-15	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
1,2,3-TRIMETHYLBENZENE	-	-	-	-	4.6 U	23 U	-	-	-	-	-	-	-	-	5.6 U	28 U	2.7 U	14 U
1,3-DIETHYLBENZENE	-	-	-	-	4.6 U	25 U	-	-	-	-	-	-	-	-	5.6 U	31 U	2.7 U	15 U
1,4-DIETHYLBENZENE	-	-	-	-	4.6 U	25 U	-	-	-	-	-	-	-	-	5.5 J	31 J	2.7 U	15 U
1-DECENE	-	-	-	-	11 U	66 U	-	-	-	-	-	-	-	-	14 U	81 U	6.8 U	40 U
1-HEPTENE	-	-	-	-	4.6 U	19 U	-	-	-	-	-	-	-	-	5.6 U	23 U	2.7 U	11 U
1-HEXENE	-	-	-	-	4.6 U	16 U	-	-	-	-	-	-	-	-	5.6 U	19 U	2.7 U	9.5 U
1-NONENE	-	-	-	-	4.6 U	24 U	-	-	-	-	-	-	-	-	5.6 U	29 U	2.7 U	14 U
1-OCTENE	-	-	-	-	4.6 U	21 U	-	-	-	-	-	-	-	-	5.6 U	26 U	2.7 U	13 U
1-PENTENE	-	-	-	-	4.6 U	13 U	-	-	-	-	-	-	-	-	10	30	2.7 U	7.9 U
1-UNDECENE	-	-	-	-	11 U	73 U	-	-	-	-	-	-	-	-	14 U	89 U	6.8 U	44 U
2,2,4-TRIMETHYLPENTANE	-	-	-	-	69 U	330	-	-	-	-	-	-	-	-	10	50	6.1	29
2,2-DIMETHYLBUTANE	-	-	-	-	10	36	-	-	-	-	-	-	-	-	5.6 U	20 U	2.7 U	9.7 U
2,3,4-TRIMETHYLPENTANE	-	-	-	-	50	240	-	-	-	-	-	-	-	-	5.6 U	26 U	2.7 U	13 U
2,3-DIMETHYLBUTANE	-	-	-	-	44	160	-	-	-	-	-	-	-	-	8.5	30	4	14
2,3-DIMETHYLPENTANE	-	-	-	-	81	340	-	-	-	-	-	-	-	-	17	71	10	43
2,4-DIMETHYLPENTANE	-	-	-	-	34	140	-	-	-	-	-	-	-	-	9.7	40	5.3	22
2-ETHYLTOLUENE	-	-	-	-	4.6	23 U	-	-	-	-	-	-	-	-	5.8	29	2.7 U	14 U
2-METHYLHEPTANE	-	-	-	-	52 U	240	-	-	-	-	-	-	-	-	5.6 U	26 U	2.7 U	13 U
2-METHYLHEXANE	-	-	-	-	120	500	-	-	-	-	-	-	-	-	12	49	8.2	34
2-METHYLPENTANE	-	-	-	-	180	650	-	-	-	-	-	-	-	-	32	120	16	58
3-ETHYLTOLUENE	-	-	-	-	6.4	32	-	-	-	-	-	-	-	-	17	86	4.9	24
3-METHYLHEPTANE	-	-	-	-	94	440	-	-	-	-	-	-	-	-	6.1	29	2.8	13
3-METHYLHEXANE	-	-	-	-	170	700	-	-	-	-	-	-	-	-	12	48	8.5	35
3-METHYLPENTANE	-	-	-	-	150	530	-	-	-	-	-	-	-	-	20	71	11	41
4-ETHYLTOLUENE	-	-	-	-	4.6	23 U	-	-	-	-	-	-	-	-	10	52	3.4	17
ALPHA-PINENE	-	-	-	-	11 U	64 U	-	-	-	-	-	-	-	-	14 U	79 U	6.8 U	38 U
BETA-PINENE	-	-	-	-	11	64 U	-	-	-	-	-	-	-	-	14 U	79 U	6.8 U	38 U
CIS-2-HEXENE	-	-	-	-	11 U	40 U	-	-	-	-	-	-	-	-	14 U	48 U	6.8 U	24 U
CIS-2-PENTENE	-	-	-	-	4.6 U	13 U	-	-	-	-	-	-	-	-	13	37	2.7 U	7.9 U
CUMENE	-	-	-	-	4.6 U	23 U	-	-	-	-	-	-	-	-	5.6 U	28 U	2.7 U	14 U

TABLE 3-7
PRAXAIR POINT SOIL VAPOR ANALYTICAL RESULTS

Hartford Working Group
Hartford, Illinois

Location ID	PA-40		PA-46		PA-50		PA-53		PA-60		PA-61		PA-67		PA-69		PA-69	
Sample ID	082604PA-40		022205-PA-46		082604PA50		022205-PA-53		082604PA-60		022205-PA-61		022205-PA-67		082604PA-69		082604PA-69-DUPE	
Sample Date	26-Aug-04		22-Feb-05		26-Aug-04		22-Feb-05		26-Aug-04		22-Feb-05		22-Feb-05		26-Aug-04		26-Aug-04	
Sample Matrix	GS		GS		GS		GS		GS		GS		GS		GS		GS	
Sample Class	Soil Vapor		Soil Vapor		Soil Vapor		Soil Vapor		Soil Vapor		Soil Vapor		Soil Vapor		Soil Vapor		Soil Vapor	
CYCLOHEXANE	-	-	-	-	69 U	240	-	-	-	-	-	-	-	-	5.6 U	19 U	2.7 U	9.5 U
CYCLOPENTANE	-	-	-	-	25	74	-	-	-	-	-	-	-	-	5.6 U	16 U	2.7 U	7.9 U
CYCLOPENTENE	-	-	-	-	4.6	13 U	-	-	-	-	-	-	-	-	5.6 U	16 U	2.7 U	7.7 U
DECANE	-	-	-	-	4.6 U	27 U	-	-	-	-	-	-	-	-	5.6 U	33 U	2.7 U	16 U
HEPTANE	-	-	-	-	57	240	-	-	-	-	-	-	-	-	11	46	7.5	31
ISOPRENE	-	-	-	-	4.6	13 U	-	-	-	-	-	-	-	-	5.6 U	16 U	2.7 U	7.7 U
METHYLCYCLOPENTANE	-	-	-	-	140	480	-	-	-	-	-	-	-	-	13	44	8.3	29
NONANE	-	-	-	-	4.6	24 U	-	-	-	-	-	-	-	-	5.5 J	29 J	2.7 U	14 U
OCTANE	-	-	-	-	18 U	87	-	-	-	-	-	-	-	-	6	29	2.7 U	13 U
PENTANE	-	-	-	-	140	420	-	-	-	-	-	-	-	-	91	270	15	45
PROPYLBENZENE	-	-	-	-	4.6	23 U	-	-	-	-	-	-	-	-	5.6 U	28 U	2.7 U	14 U
STYRENE	-	-	-	-	1.1 U	4.9 U	-	-	-	-	-	-	-	-	1.4 U	6 U	0.68 U	2.9 U
TRANS-2-HEXENE	-	-	-	-	11	40 U	-	-	-	-	-	-	-	-	14 U	49 U	6.8 U	24 U
TRANS-2-PENTENE	-	-	-	-	4.6 U	13 U	-	-	-	-	-	-	-	-	32	92	3.5	10
UNDECANE	-	-	-	-	4.6 U	30 U	-	-	-	-	-	-	-	-	5.6 U	36 U	2.7 U	18 U
Method - TO15 (re-run)	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
BENZENE	-	-	260 U	820 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ETHYL BENZENE	-	-	260 U	1,100 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
M,P-XYLENE	-	-	260 U	1,100 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
O-XYLENE	-	-	260 U	1,100 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOLUENE	-	-	260 U	970 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ppbv - parts per billion volume
ug/m3 - micrograms per cubic meter
%-result is reported as a percent
NA - not available
"-" - not analyzed.
J - analyte detected below reporting limit
U-compound was analyzed for but not detected above reporting limit

TABLE 3-8A
SUBSLAB SOIL VAPOR ANALYTICAL RESULTS
(ppbv units)

Hartford Working Group
Hartford, Illinois

Location ID	Sample ID	Sample Date	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,3-BUTADIENE	BENZENE	ETHYL BENZENE	HEXANE	ISOPENTANE	M,P-XYLENE	METHANE	METHANE	METHYL TERT-BUTYL ETHER	METHYLCYCLOHEXANE	O-XYLENE	PROPYLBENZENE	STYRENE	TOLUENE
	Subslab Comparison Value (ppbv)		**13**	**13**	**10**	**40**	**2,300**	**550**	**390**	**1,000**	**NA**	**NA**	**7,000**	**7,500**	**1,000**	**300**	**600**	**800**
		Units	**ppbv**	**ppbv**	**ppbv**	**ppbv**	**ppbv**	**ppbv**	**ppbv**	**ppbv**	**ppmv**	**%**	**ppbv**	**ppbv**	**ppbv**	**ppbv**	**ppbv**	**ppbv**
100NOldStLouis	013105 100NOldStLouis SS-1	1/31/2005	< 0.73	< 0.73	< 2.9	< 0.73	< 0.73	< 0.73	44	0.75	34	-	< 2.9	< 0.73	< 0.73	< 0.73	< 0.73	4.8
	013105 100NOldStLouis SS-2	1/31/2005	2.3	2.3	< 3.0	< 0.74	< 0.74	1.7	44	1.1	230	-	< 3.0	1.1	< 0.74	< 0.74	0.98	24
	013105 100NOldStLouis SS-3	1/31/2005	< 0.80	< 0.80	< 3.2	< 0.80	< 0.80	< 0.80	33	< 0.80	3.1	-	< 3.2	< 0.80	< 0.80	< 0.80	< 0.80	4.8
110EMaple	012405 110 E Maple SS1	1/24/2005	0.93	< 0.72	< 0.72	2.5	0.87	< 2.9	33	2.9	-	0.00037	-	< 2.9	0.76	< 2.9	< 0.72	5.5
	012405 110 E Maple SS2	1/24/2005	< 0.79	< 0.79	< 0.79	2.3	< 0.79	< 3.2	14	2.1	-	< 0.00016	-	< 3.2	< 0.79	< 3.2	< 0.79	5.5
	012405 110 E Maple SS3	1/24/2005	< 0.72	< 0.72	< 0.72	1.7	< 0.72	< 2.9	5.3	2	-	< 0.00014	-	< 2.9	< 0.72	< 2.9	< 0.72	4.6
111WDate	022305 111 W Date SS1	2/23/2005	< 0.72	< 0.72	< 2.9	< 0.72	< 0.72	< 0.72	< 2.9	< 0.72	-	< 0.00014	< 2.9	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72
	022305 111 W Date SS2	2/23/2005	< 0.73	< 0.73	< 2.9	< 0.73	< 0.73	< 0.73	< 2.9	< 0.73	-	< 0.00015	< 2.9	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73
	022305 111 W Date SS3	2/23/2005	< 0.70	< 0.70	< 2.8	< 0.70	< 0.70	< 0.70	3.4	< 0.70	-	< 0.00014	< 2.8	< 0.70	< 0.70	< 0.70	< 0.70	0.73
112WBirch	021005 112 W Birch SS1	2/10/2005	< 240	< 240	< 480J	**91**	< 5.8	480	**89,000**	< 5.8	13,000	-	< 960	< 240	< 5.8	< 240	< 240	< 5.8
	021005 112 W Birch SS2	2/10/2005	< 9,300	< 9,300	< 9,300J	**3,600**	< 60	**54,000**	**3,400,000**	< 60	69,000	-	< 43,000	< 11,000	< 60	< 11,000	< 11,000	< 60
	021005 112 W Birch SS3	2/10/2005	< 13,000	< 13,000	< 13,000J	**2,900**	< 63	**88,000**	**3,800,000**	< 63	110,000	-	< 90,000	< 22,000	< 63	< 22,000	< 22,000	< 63
	021005 112 W Birch SS4	2/10/2005	< 15,000	< 21,000	< 15,000J	**4,600**	< 58	**120,000**	**5,500,000**	< 58	110,000	-	< 83,000	< 21,000	< 58	< 21,000	< 21,000	< 58
114NDelmar	021505 114 N Delmar SS1	2/15/2005	< 0.84	< 0.84	< 3.4	< 0.84	< 0.84	< 0.84	< 3.4	< 0.84	-	< 0.00017	< 3.4	< 0.84	< 0.84	< 0.84	< 0.84	< 0.84
	021505 114 N Delmar SS1 Dup	2/15/2005	< 0.72	< 0.72	< 2.9	< 0.72	< 0.72	< 0.72	< 2.9	< 0.72	-	< 0.00014	< 2.9	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72
	021505 114 N Delmar SS2	2/15/2005	< 0.88	< 0.88	< 3.5	< 0.88	< 0.88	< 0.88	12	< 0.88	-	< 0.00018	< 3.5	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88
116EWatkins	020705116EWATKINS SS1	2/7/2005	< 0.66	< 0.66	< 2.6	< 0.66	< 0.66	< 0.66	2.7	< 0.66	-	0.00027	< 2.6	< 0.66	< 0.66	< 0.66	< 0.66	1.4
	020705116EWATKINS SS2	2/7/2005	< 0.80	< 0.80	< 3.2	30	< 0.80	< 0.80	< 3.2	2.1	-	< 0.00016	< 3.2	< 0.80	< 0.80	< 0.80	< 0.80	5.7
	020705116EWATKINS SS3	2/7/2005	< 0.76	< 0.76	< 3.0	< 0.76	< 0.76	< 0.76	18	< 0.76	-	< 0.00015	< 3.0	< 0.76	< 0.76	< 0.76	< 0.76	< 0.76
117WDate	032205 117 W Date SS1	3/22/2005	< 0.74	< 0.74	< 3.0	< 0.74	< 0.74	< 0.74	< 3.0	< 0.74	< 1.5	-	< 3.0	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74
	032205 117 W Date SS2	3/22/2005	< 0.72	< 0.72	< 2.9	< 0.72	< 0.72	< 0.72	< 2.9	< 0.72	< 1.4	-	< 2.9	< 0.72	< 0.72	< 0.72	< 0.72	0.98
	032205 117 W Date SS2 Dupe	3/22/2005	< 0.76	< 0.76	< 3.0	< 0.76	< 0.76	< 0.76	< 3.0	0.92	< 1.5	-	< 3.0	< 0.76	< 0.76	< 0.76	< 0.76	1.5
	032205 117 W Date SS3	3/22/2005	< 0.70	< 0.70	< 2.8	< 0.70	< 0.70	< 0.70	< 2.8	< 0.70	< 1.4	-	< 2.8	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70
118WBirch	031705 118 W Birch SS1	3/17/2005	< 0.82	< 0.82	< 3.3	< 0.82	< 0.82	< 0.82	< 3.3	2.2	-	< 0.00016	< 3.3	< 0.82	0.97	< 0.82	< 0.82	1.8
	031705 118 W Birch SS2	3/17/2005	< 0.74	< 0.74	< 3.0	< 0.74	< 0.74	< 0.74	< 3.0	1.9	-	< 0.00015	< 3.0	< 0.74	0.95	< 0.74	< 0.74	1.4
	031705 118 W Birch SS3	3/17/2005	< 0.72	< 0.72	< 2.9	< 0.72	< 0.72	< 0.72	< 2.9	2.1	-	< 0.00014	< 2.9	< 0.72	1	< 0.72	< 0.72	1.6
118WCherry	040405 118 W Cherry SS1	4/4/2005	< 0.74	< 0.74	< 3.0	< 0.74	< 0.74	< 0.74	< 3.0	< 0.74	-	< 0.00015	< 3.0	< 0.74	< 0.74	< 0.74	< 0.74	0.97
	040405 118 W Cherry SS2	4/4/2005	< 0.73	< 0.73	< 2.9	< 0.73	< 0.73	< 0.73	< 2.9	1.2	-	< 0.00015	< 2.9	< 0.73	< 0.73	< 0.73	< 0.73	1.3
	040405 118 W Cherry SS3	4/4/2005	< 0.72	< 0.72	< 2.9	< 0.72	< 0.72	6.5	12	0.98	-	< 0.00014	< 2.9	< 0.72	< 0.72	< 0.72	< 0.72	5.5
119WCherry	031005 119 W Cherry SS1	3/10/2005	< 0.70	< 0.70	< 2.8	< 0.70	< 0.70	< 0.70	< 2.8	< 0.70	-	< 0.00014	< 2.8	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70
	031005 119 W Cherry SS2	3/10/2005	< 0.74	< 0.74	< 3.0	< 0.74	< 0.74	< 0.74	< 3.0	< 0.74	-	< 0.00015	< 3.0	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74
	031005 119 W Cherry SS3	3/10/2005	< 0.76	< 0.76	< 3.0	< 0.76	< 0.76	< 0.76	< 3.0	0.81	-	< 0.00015	< 3.0	< 0.76	< 0.76	< 0.76	< 0.76	1
120WCherry	030805 120 W Cherry SS1	3/8/2005	< 0.74	< 0.74	< 3.0	< 0.74	< 0.74	< 0.74	< 3.0	2.2	-	< 0.00015	< 3.0	< 0.74	0.78	< 0.74	< 0.74	2.4
	030805 120 W Cherry SS1 DUP	3/8/2005	< 0.72	< 0.72	< 2.9	< 0.72	< 0.72	< 0.72	< 2.9	2.1	-	< 0.00014	< 2.9	< 0.72	0.75	< 0.72	< 0.72	2.3
	030805 120 W Cherry SS2	3/8/2005	< 0.66	< 0.66	< 2.6	< 0.66	< 0.66	< 0.66	4.3	1.1	-	< 0.00013	< 2.6	< 0.66	< 0.66	< 0.66	< 0.66	1.9
	030805 120 W Cherry SS3	3/8/2005	< 0.74	< 0.74	< 3.0	< 0.74	< 0.74	< 0.74	< 3.0	0.93	-	< 0.00015	< 3.0	< 0.74	< 0.74	< 0.74	< 0.74	1.6
122EForest	021505 122 E Forest SS1	2/15/2005	< 0.70	< 0.70	< 2.8	2	< 0.70	34	160	1.6	-	0.00028	< 2.8	5.8	< 0.70	< 0.70	< 0.70	1.2
	021505 122 E Forest SS2	2/15/2005	< 0.72	< 0.72	< 2.9	< 0.72	< 0.72	< 0.72	< 2.9	< 0.72	-	< 0.00014	< 2.9	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72
	021505 122 E Forest SS3	2/15/2005	< 0.80	< 0.80	< 3.2	1.6	< 0.80	37	150	1.1	-	0.0002	< 3.2	4.4	< 0.80	< 0.80	< 0.80	1.1
123EWatkins	020705123EWATKINS SS1	2/7/2005	< 0.76	< 0.76	< 3.0	1.4	< 0.76	1.2	9.5	2.3	-	< 0.00015	< 3.0	< 0.76	0.82	< 0.76	< 0.76	4.4
	020705123EWATKINS SS2	2/7/2005	< 0.84	< 0.84	< 3.4	1.1	< 0.84	< 0.84	< 3.4	1.5	-	< 0.00017	< 3.4	< 0.84	< 0.84	< 0.84	< 0.84	3.7
	020705123EWATKINS SS3	2/7/2005	< 0.78	< 0.78	< 3.1	0.87	< 0.78	1.1	< 3.1	1.2	-	0.00023	< 3.1	< 0.78	< 0.78	< 0.78	< 0.78	2.9
	030205 123 W Cherry SS1	3/2/2005	< 0.70	< 0.70	< 2.8	< 0.70	< 0.70	< 0.70	3.9	0.94	-	< 0.00014	< 2.8	< 0.70	< 0.70	< 0.70	< 0.70	4.2
123WCherry	030205 123 W Cherry SS2	3/2/2005	< 0.74	< 0.74	< 3.0	< 0.74	< 0.74	< 0.74	13	1.2	-	0.00026	< 3.0	< 0.74	< 0.74	< 0.74	< 0.74	7.9
	030205 123 W Cherry SS3	3/2/2005	< 0.80	< 0.80	< 3.2	< 0.80	< 0.80	< 0.80	< 3.2	0.84	-	< 0.00016	< 3.2	< 0.80	< 0.80	< 0.80	< 0.80	3.8
	022305 124 W Forest SS1	2/23/2005	< 0.73	< 0.73	< 2.9	< 0.73	< 0.73	< 0.73	5.2	< 0.73	-	< 0.00015	< 2.9	< 0.73	< 0.73	< 0.73	< 0.73	1.6
124WForest	022305 124 W Forest SS2	2/23/2005	< 0.70	< 0.70	< 2.8	< 0.70	< 0.70	< 0.70	< 2.8	< 0.70	-	< 0.00014	< 2.8	< 0.70	< 0.70	< 0.70	< 0.70	2
	022305 124 W Forest SS3	2/23/2005	2.5	< 0.73	< 2.9	2	2	< 0.73	3.3	12	-	< 0.00015	< 2.9	< 0.73	4.9	< 0.73	< 0.73	16
126WElm	021105 126 W Elm SS1	2/11/2005	9.4	10	< 4.8J	25	6	210	**1,900**	15	-	0.0004	< 19	450	< 4.8	< 4.8	< 4.8	19
	021105 126 W Elm SS2	2/11/2005	< 2.1	< 2.1	< 2.1J	3.4	< 2.1	2.7	64	< 2.1	-	< 0.00016	< 8.3	11	< 2.1	< 2.1	< 2.1	< 2.1

TABLE 3-8A
SUBSLAB SOIL VAPOR ANALYTICAL RESULTS
(ppbv units)

Hartford Working Group
Hartford, Illinois

Location ID	Sample ID	Sample Date	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,3-BUTADIENE	BENZENE	ETHYL BENZENE	HEXANE	ISOPENTANE	M,P-XYLENE	METHANE	METHANE	METHYL TERT-BUTYL ETHER	METHYLCYCLOHEXANE	O-XYLENE	PROPYLBENZENE	STYRENE	TOLUENE
		Subslab Comparison Value (ppbv)	**13**	**13**	**10**	**40**	**2,300**	**550**	**390**	**1,000**	**NA**	**NA**	**7,000**	**7,500**	**1,000**	**300**	**600**	**800**
		Units	**ppbv**	**ppbv**	**ppbv**	**ppbv**	**ppbv**	**ppbv**	**ppbv**	**ppbv**	**ppmv**	**%**	**ppbv**	**ppbv**	**ppbv**	**ppbv**	**ppbv**	**ppbv**
127WForest	030805 127 W Forest SS1	3/8/2005	< 0.76	< 0.76	< 3.0	< 0.76	< 0.76	< 0.76	12	< 0.76	-	0.00021	< 3.0	< 0.76	< 0.76	< 0.76	< 0.76	< 0.76
	030805 127 W Forest SS2	3/8/2005	< 0.73	< 0.73	< 2.9	< 0.73	< 0.73	< 0.73	< 2.9	< 0.73	-	< 0.00015	< 2.9	< 0.73	< 0.73	< 0.73	< 0.73	< 0.73
	030805 127 W Forest SS3	3/8/2005	< 0.72	< 0.72	< 2.9	< 0.72	< 0.72	< 0.72	< 2.9	< 0.72	-	< 0.00014	< 2.9	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72
	030805 127 W Forest SS4	3/8/2005	< 0.70	< 0.70	< 2.8	13	1.1	2	6.9	1	-	< 0.00014	< 2.8	< 0.70	< 0.70	< 0.70	< 0.70	0.72
128WForest	031405 128 W Forest SS1	3/14/2005	< 0.68	< 0.68	< 2.7	< 0.68	< 0.68	< 0.68	< 2.7	0.96	-	0.00017	< 2.7	< 0.68	< 0.68	< 0.68	< 0.68	1.6
	031405 128 W Forest SS1 Dup	3/14/2005	< 0.79	< 0.79	< 3.2	< 0.79	< 0.79	< 0.79	< 3.2	< 0.79	-	< 0.00016	< 3.2	< 0.79	< 0.79	< 0.79	< 0.79	1.3
	031405 128 W Forest SS2	3/14/2005	< 0.70	< 0.70	< 2.8	< 0.70	< 0.70	< 0.70	< 2.8	0.88	-	0.00046	< 2.8	< 0.70	< 0.70	< 0.70	< 0.70	2
	031405 128 W Forest SS3	3/14/2005	< 0.70	< 0.70	< 2.8	< 0.70	< 0.70	< 0.70	< 2.8	0.71	-	< 0.00014	< 2.8	< 0.70	< 0.70	< 0.70	< 0.70	1.4
129EMaple	031805 129 E Maple SS1	3/18/2005	< 0.76	< 0.76	< 3.0	< 0.76	< 0.76	0.97	5.8	0.96	< 1.5	-	< 3.0	< 0.76	< 0.76	< 0.76	< 0.76	1.6
	031805 129 E Maple SS2	3/18/2005	< 0.79	< 0.79	< 3.2	< 0.79	< 0.79	< 0.79	5.7	1.2	< 1.6	-	< 3.2	< 0.79	< 0.79	< 0.79	< 0.79	1.5
	031805 129 E Maple SS3	3/18/2005	< 0.90	< 0.90	< 3.6	< 0.90	< 0.90	1.1	13	< 0.90	2.6	-	< 3.6	< 0.90	< 0.90	< 0.90	< 0.90	3.3
130WWatkins	031405 130 W Watkins SS1	3/14/2005	< 0.86	< 0.86	< 3.4	< 0.86	< 0.86	1.6	3.5	< 0.86	-	< 0.00017	< 3.4	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86
	031405 130 W Watkins SS2	3/14/2005	< 0.65	< 0.65	< 2.6	< 0.65	< 0.65	< 0.65	< 2.6	< 0.65	-	0.00027	< 2.6	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65
	031405 130 W Watkins SS3	3/14/2005	< 0.72	< 0.72	< 2.9	< 0.72	< 0.72	< 0.72	< 2.9	< 0.72	-	< 0.00014	< 2.9	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72
	031405 130 W Watkins SS4	3/14/2005	< 0.70	< 0.70	< 2.8	< 0.70	< 0.70	< 0.70	6.8	< 0.70	-	0.00035	< 2.8	< 0.70	< 0.70	< 0.70	< 0.70	< 0.70
134EWatkins	030305 134 E Watkins SS1	3/3/2005	< 0.73	< 0.73	< 2.9	< 0.73	< 0.73	< 0.73	24	< 0.73	< 1.5	-	< 2.9	< 0.73	< 0.73	< 0.73	< 0.73	2.1
	030305 134 E Watkins SS2	3/3/2005	< 0.66	< 0.66	< 2.6	< 0.66	< 0.66	< 0.66	9.4	< 0.66	2.1	-	< 2.6	< 0.66	< 0.66	< 0.66	< 0.66	1.4
	030305 134 E Watkins SS3	3/3/2005	< 0.76	< 0.76	< 3.0	< 0.76	< 0.76	< 0.76	7	< 0.76	< 1.5	-	< 3.0	< 0.76	< 0.76	< 0.76	< 0.76	1.9
	030305 134 E Watkins SS4	3/3/2005	< 0.78	< 0.78	< 3.1	< 0.78	< 0.78	< 0.78	< 3.1	< 0.78	< 1.6	-	< 3.1	< 0.78	< 0.78	< 0.78	< 0.78	0.89
139EForest	012205-139EForest-SS1	1/22/2005	-	-	-	< 4.0	< 4.0	-	-	4.3	-	0.017	-	-	< 4.0	-	-	85
	012205-139EForest-SS2	1/22/2005	-	-	-	< 12	< 12	-	-	< 12	-	0.073	-	-	< 12	-	-	< 12
	012205-139EForest-SS3	1/22/2005	-	-	-	< 0.70	< 0.70	-	-	< 0.70	-	0.00022	-	-	< 0.70	-	-	< 0.70
140WMaple	020705140WMAPLE SS1	2/7/2005	< 0.76	< 0.76	< 3.0	< 0.76	< 0.76	< 0.76	< 3.0	1.4	-	< 0.00015	< 3.0	1.2	< 0.76	< 0.76	< 0.76	3
	020705140WMAPLE SS2	2/7/2005	< 0.76	< 0.76	< 3.0	< 0.76	< 0.76	< 0.76	< 3.0	1.3	-	0.0002	< 3.0	1.4	< 0.76	< 0.76	< 0.76	3.5
	020705140WMAPLE SS3	2/7/2005	< 0.74	< 0.74	< 3.0	< 0.74	< 0.74	0.8	< 3.0	1.2	-	0.00033	< 3.0	1.5	< 0.74	< 0.74	< 0.74	2.8
142EWatkins	013005-142EWatkins-SS1	1/30/2005	< 0.78	< 0.78	< 3.1	< 0.78	< 0.78	< 0.78	< 3.1	< 0.78	< 1.6	-	< 3.1	< 0.78	< 0.78	< 0.78	< 0.78	1.3
	013005-142EWatkins-SS2	1/30/2005	< 0.84	< 0.84	< 3.4	< 0.84	< 0.84	< 0.84	< 3.4	< 0.84	< 1.7	-	< 3.4	< 0.84	< 0.84	< 0.84	< 0.84	1.6
	013005-142EWatkins-SS3	1/30/2005	< 0.74	< 0.74	< 3.0	< 0.74	< 0.74	2.6	16	0.99	< 1.5	-	< 3.0	1.2	0.79	< 0.74	< 0.74	2.3
201NOlive	030805 201 N Olive SS1	3/8/2005	< 5.8	< 5.8	< 23	**48**	< 5.8	130	**1,800**	< 5.8	-	0.00024	< 23	8.8	< 5.8	< 5.8	< 5.8	< 5.8
	030805 201 N Olive SS2	3/8/2005	3.8	7.2	< 3.0	**41**	5.2	68	250	36	-	< 0.00015	< 3.0	22	10	< 0.74	< 0.74	4.8
	030805 201 N Olive SS2 DUP	3/8/2005	< 1.1	< 1.1	< 4.2	1.2	< 1.1	< 1.1	7.5	1.1	-	0.00025	< 4.2	< 1.1	< 1.1	< 1.1	< 1.1	1.6
	030805 201 N Olive SS3	3/8/2005	< 0.70	< 0.70	< 2.8	< 0.70	< 0.70	< 0.70	5.6	0.82	-	0.00025	< 2.8	< 0.70	< 0.70	< 0.70	< 0.70	1.5
215NDelmar	013105 215NDelmar SS1	1/31/2005	< 0.72	< 0.72	< 2.9	< 0.72	< 0.72	< 0.72	< 2.9	1.1	< 1.4	-	< 2.9	< 0.72	< 0.72	< 0.72	< 0.72	1.9
	013105 215NDelmar SS2	1/31/2005	< 0.70	< 0.70	< 2.8	0.87	< 0.70	< 0.70	< 2.8	1.2	< 1.4	-	< 2.8	< 0.70	< 0.70	< 0.70	< 0.70	2.5
	013105 215NDelmar SS3	1/31/2005	< 0.72	< 0.72	< 2.9	< 0.72	< 0.72	< 0.72	< 2.9	0.97	< 1.4	-	< 2.9	< 0.72	< 0.72	< 0.72	< 0.72	1.9
309NOlive	011705-309NOLIVE-SS-NE	1/17/2005	-	-	-	1.7	< 0.70	-	-	1.7	-	0.00074	-	-	< 0.70	-	-	3
	011705-309NOLIVE-SS-S	1/17/2005	-	-	-	1.2	< 0.72	-	-	1.2	-	0.0011	-	-	< 0.72	-	-	2.5
	011705-309NOLIVE-SS-SW	1/17/2005	-	-	-	1.3	< 0.70	-	-	1.4	-	0.0021	-	-	< 0.70	-	-	2.3
310NDelmar	031505 310 N Delmar SS1	3/15/2005	< 0.79	< 0.79	< 3.2	< 0.79	< 0.79	< 0.79	< 3.2	< 0.79	-	0.00037	< 3.2	< 0.79	< 0.79	< 0.79	< 0.79	< 0.79
	031505 310 N Delmar SS2	3/15/2005	< 0.80	< 0.80	< 3.2	1.2	0.96	2.7	40	3.4	-	0.00061	< 3.2	< 0.80	1.1	< 0.80	< 0.80	1.6
	031505 310 N Delmar SS3	3/15/2005	< 32	60	< 130	15	< 79	210	**10,000**	55	-	0.0023	< 130	240	120	< 32	< 32	< 32
	031505 310 N Delmar SS4	3/15/2005	< 8,200	< 8,200	< 33,000	**39,000**	< 8,200	**140,000**	**2,700,000**	**30,000**	-	0.092	< 33,000	**14,000**	**9,900**	< 8,200	< 8,200	**30,000**
	031505 310 N Delmar SS5	3/15/2005	< 0.79	< 0.79	< 3.2	4	< 0.79	2.2	15	< 0.79	-	0.00022	< 3.2	< 0.79	< 0.79	< 0.79	< 0.79	2.4
610OldStLouis	021605 610 NOld St. Louis SS1	2/16/2005	< 0.86	< 0.86	< 3.4	2	< 0.86	10	100	< 0.86	42	-	< 3.4	3.6	< 0.86	< 0.86	< 0.86	3.7
	021605 610 NOld St. Louis SS2	2/16/2005	< 0.76	< 0.76	< 3.0	< 0.76	< 0.76	< 0.76	3.4	< 0.76	< 1.5	-	< 3.0	< 0.76	< 0.76	< 0.76	< 0.76	1.7
	021605 610 NOld St. Louis SS3	2/16/2005	< 0.68	< 0.68	< 2.7	1	< 0.68	1.5	4	< 0.68	3.2	-	< 2.7	1	< 0.68	< 0.68	< 0.68	2.8

ppbv - parts per billion volume.
ppmv - parts per million volume.
Note: If BTEX Rerun performed - the rerun results are incorporated in this table.
SS-Subslab vapor
Methods of Analysis - TO15 and D1946
" - " - Not analyzed
"**Bold**" - Exceeds action level.
<0.79 - Not detected at reporting limit
<0.79J - Estimated value, analyte detected below reporting limit

TABLE 3-8 B
SUBSLAB SOIL VAPOR ANALYTICAL RESULTS
(ug/m3 units)

Hartford Working Group
Hartford, Illinois

Location ID	Sample ID	Sample Date	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,3-BUTADIENE	BENZENE	ETHYL BENZENE	HEXANE	ISOPENTANE	M,P-XYLENE	METHYL TERT-BUTYL ETHER	METHYLCYCLOHEXANE	O-XYLENE	PROPYLBENZENE	STYRENE	TOLUENE
Subslab Comparison Value (ug/m3)			**60**	**60**	**20**	**130**	**10,000**	**2,000**	**1,150**	**4,300**	**25,000**	**30,100**	**4,300**	**1,400**	**2,600**	**3,000**
		Units	**ug/m3**	**ug/m3**	**ug/m3**	**ug/m3**	**ug/m3**	**ug/m3**	**ug/m3**	**ug/m3**	**ug/m3**	**ug/m3**	**ug/m3**	**ug/m3**	**ug/m3**	**ug/m3**
100NOldStLouis	013105 100NOldStLouis SS-1	1/31/2005	< 3.6	< 3.6	< 6.4	< 2.3	< 3.2	< 2.6	130	3.3	< 10	< 2.9	< 3.2	< 3.6	< 3.1	18
	013105 100NOldStLouis SS-2	1/31/2005	11	11	< 6.6	< 2.4	< 3.2	6	130	4.7	< 11	4.4	< 3.2	< 3.7	4.2	93
	013105 100NOldStLouis SS-3	1/31/2005	< 4.0	< 4.0	< 7.1	< 2.6	< 3.5	< 2.8	98	< 3.5	< 12	< 3.2	< 3.5	< 4.0	< 3.4	18
110EMaple	012405 110 E Maple SS1	1/24/2005	4.6	< 3.5	< 1.6	8.1	3.8	< 10	98	12	-	< 12	3.3	< 14	< 3.1	21
	012405 110 E Maple SS2	1/24/2005	< 3.9	< 3.9	< 1.7	7.4	< 3.4	< 11	42	9	-	< 13	< 3.4	< 16	< 3.4	21
	012405 110 E Maple SS3	1/24/2005	< 3.5	< 3.5	< 1.6	5.4	< 3.1	< 10	16	8.7	-	< 12	< 3.1	< 14	< 3.1	17
111WDate	022305 111 W Date SS1	2/23/2005	< 3.5	< 3.5	< 6.4	< 2.3	< 3.1	< 2.5	< 8.5	< 3.1	< 10	< 2.9	< 3.1	< 3.5	< 3.1	< 2.7
	022305 111 W Date SS2	2/23/2005	< 3.6	< 3.6	< 6.4	< 2.3	< 3.2	< 2.6	< 8.6	< 3.2	< 10	< 2.9	< 3.2	< 3.6	< 3.1	< 2.8
	022305 111 W Date SS3	2/23/2005	< 3.5	< 3.5	< 6.2	< 2.2	< 3.1	< 2.5	10	< 3.1	< 10	< 2.8	< 3.1	< 3.5	< 3.0	2.7
112WBirch	021005 112 W Birch SS1	2/10/2005	< 1,200	< 1,200	< 1,100J	**290**	< 25	1,700	**260,000**	< 25	< 3,500	< 960	< 25	< 1,200	< 1,000	< 22
	021005 112 W Birch SS2	2/10/2005	< 46,000	< 46,000	< 20,000J	**12,000**	< 260	**190,000**	**10,000,000**	< 260	< 150,000	< 43,000	< 260	< 52,000	< 45,000	< 220
	021005 112 W Birch SS3	2/10/2005	< 65,000	< 65,000	< 29,000J	**9,200**	< 270	**310,000**	**11,000,000**	< 270	< 320,000	< 90,000	< 270	< 110,000	< 96,000	< 240
	021005 112 W Birch SS4	2/10/2005	< 72,000	< 72,000	< 32,000J	**14,000**	< 250	**410,000**	**16,000,000**	< 250	< 300,000	< 84,000	< 250	< 100,000	< 89,000	< 220
114NDelmar	021505 114 N Delmar SS1	2/15/2005	< 4.1	< 4.1	< 7.4	< 2.7	< 3.6	< 3.0	< 9.9	< 3.6	< 12	< 3.4	< 3.6	< 4.1	< 3.6	< 3.2
	021505 114 N Delmar SS1 Dup	2/15/2005	< 3.5	< 3.5	< 6.4	< 2.3	< 3.1	< 2.5	< 8.5	< 3.1	< 10	< 2.9	< 3.1	< 3.5	< 3.1	< 2.7
	021505 114 N Delmar SS2	2/15/2005	< 4.3	< 4.3	< 7.7	< 2.8	< 3.8	< 3.1	34	< 3.8	< 13	< 3.5	< 3.8	< 4.3	< 3.7	< 3.3
116EWatkins	020705116EWATKINS SS1	2/7/2005	< 3.2	< 3.2	< 5.8	< 2.1	< 2.9	< 2.3	8	< 2.9	< 9.5	< 2.6	< 2.9	< 3.2	< 2.8	5.3
	020705116EWATKINS SS2	2/7/2005	< 4.0	< 4.0	< 7.1	94	< 3.5	< 2.8	< 9.5	9	< 12	< 3.2	< 3.5	< 4.0	< 3.4	22
	020705116EWATKINS SS3	2/7/2005	< 3.7	< 3.7	< 6.7	< 2.4	< 3.3	< 2.7	52	< 3.3	< 11	< 3.0	< 3.3	< 3.7	< 3.2	< 2.9
117WDate	032205 117 W Date SS1	3/22/2005	< 3.7	< 3.7	< 6.6	< 2.4	< 3.2	< 2.6	< 8.8	< 3.2	< 11	< 3.0	< 3.2	< 3.7	< 3.2	< 2.8
	032205 117 W Date SS2	3/22/2005	< 3.5	< 3.5	< 6.4	< 2.3	< 3.1	< 2.5	< 8.5	< 3.1	< 10	< 2.9	< 3.1	< 3.5	< 3.1	3.7
	032205 117 W Date SS2 Dupe	3/22/2005	< 3.7	< 3.7	< 6.7	< 2.4	< 3.3	< 2.7	< 9.0	4	< 11	< 3.0	< 3.3	< 3.7	< 3.2	5.5
	032205 117 W Date SS3	3/22/2005	< 3.5	< 3.5	< 6.2	< 2.2	< 3.1	< 2.5	< 8.3	< 3.1	< 10	< 2.8	< 3.1	< 3.5	< 3.0	< 2.6
118WBirch	031705 118 W Birch SS1	3/17/2005	< 4.0	< 4.0	< 7.2	< 2.6	< 3.6	< 2.9	< 9.7	9.4	< 12	< 3.3	4.2	< 4.0	< 3.5	7
	031705 118 W Birch SS2	3/17/2005	< 3.7	< 3.7	< 6.6	< 2.4	< 3.2	< 2.6	< 8.8	8.4	< 11	< 3.0	4.1	< 3.7	< 3.2	5.2
	031705 118 W Birch SS3	3/17/2005	< 3.5	< 3.5	< 6.4	< 2.3	< 3.1	< 2.5	< 8.5	9	< 10	< 2.9	4.6	< 3.5	< 3.1	6
118WCherry	040405 118 W Cherry SS1	4/4/2005	< 3.7	< 3.7	< 6.6	< 2.4	< 3.2	< 2.6	< 8.8	< 3.2	< 11	< 3.0	< 3.2	< 3.7	< 3.2	3.6
	040405 118 W Cherry SS2	4/4/2005	< 3.6	< 3.6	< 6.4	< 2.3	< 3.2	< 2.6	< 8.6	5.1	< 10	< 2.9	< 3.2	< 3.6	< 3.1	4.9
	040405 118 W Cherry SS3	4/4/2005	< 3.5	< 3.5	< 6.4	< 2.3	< 3.1	23	36	4.3	< 10	< 2.9	< 3.1	< 3.5	< 3.1	21
119WCherry	031005 119 W Cherry SS1	3/10/2005	< 3.5	< 3.5	< 6.2	< 2.2	< 3.1	< 2.5	< 8.3	< 3.1	< 10	< 2.8	< 3.1	< 3.5	< 3.0	< 2.6
	031005 119 W Cherry SS2	3/10/2005	< 3.7	< 3.7	< 6.6	< 2.4	< 3.2	< 2.6	< 8.8	< 3.2	< 11	< 3.0	< 3.2	< 3.7	< 3.2	< 2.8
	031005 119 W Cherry SS3	3/10/2005	< 3.7	< 3.7	< 6.7	< 2.4	< 3.3	< 2.7	< 9.0	3.5	< 11	< 3.0	< 3.3	< 3.7	< 3.2	3.8
120WCherry	030805 120 W Cherry SS1	3/8/2005	< 3.7	< 3.7	< 6.6	< 2.4	< 3.2	< 2.6	< 8.8	9.5	< 11	< 3.0	3.4	< 3.7	< 3.2	9.1
	030805 120 W Cherry SS1 DUP	3/8/2005	< 3.5	< 3.5	< 6.4	< 2.3	< 3.1	< 2.5	< 8.5	9.3	< 10	< 2.9	3.2	< 3.5	< 3.1	8.8
	030805 120 W Cherry SS2	3/8/2005	< 3.2	< 3.2	< 5.8	< 2.1	< 2.9	< 2.3	13	4.9	< 9.5	< 2.6	< 2.9	< 3.2	< 2.8	7.3
	030805 120 W Cherry SS3	3/8/2005	< 3.7	< 3.7	< 6.6	< 2.4	< 3.2	< 2.6	< 8.8	4	< 11	< 3.0	< 3.2	< 3.7	< 3.2	5.9
122EForest	021505 122 E Forest SS1	2/15/2005	< 3.5	< 3.5	< 6.2	6.6	< 3.1	120	480	6.7	< 10	23	< 3.1	< 3.5	< 3.0	4.3
	021505 122 E Forest SS2	2/15/2005	< 3.5	< 3.5	< 6.4	< 2.3	< 3.1	< 2.5	< 8.5	< 3.1	< 10	< 2.9	< 3.1	< 3.5	< 3.1	< 2.7
	021505 122 E Forest SS3	2/15/2005	< 4.0	< 4.0	< 7.1	5.1	< 3.5	130	440	4.9	< 12	18	< 3.5	< 4.0	< 3.4	4.2
123EWatkins	020705123EWATKINS SS1	2/7/2005	< 3.7	< 3.7	< 6.7	4.4	< 3.3	4.1	28	9.8	< 11	< 3.0	3.6	< 3.7	< 3.2	16
	020705123EWATKINS SS2	2/7/2005	< 4.1	< 4.1	< 7.4	3.6	< 3.6	< 3.0	< 9.9	6.6	< 12	< 3.4	< 3.6	< 4.1	< 3.6	14
	020705123EWATKINS SS3	2/7/2005	< 3.8	< 3.8	< 6.8	2.8	< 3.4	3.7	< 9.1	5.2	< 11	< 3.1	< 3.4	< 3.8	< 3.3	11
123WCherry	030205 123 W Cherry SS2	3/2/2005	< 3.7	< 3.7	< 6.6	< 2.4	< 3.2	< 2.6	39	5.2	< 11	< 3.0	< 3.2	< 3.7	< 3.2	30
	030205 123 W Cherry SS1	3/2/2005	< 3.5	< 3.5	< 6.2	< 2.2	< 3.1	< 2.5	11	4.1	< 10	< 2.8	< 3.1	< 3.5	< 3.0	16
	030205 123 W Cherry SS3	3/2/2005	< 4.0	< 4.0	< 7.1	< 2.6	< 3.5	< 2.8	< 9.5	3.7	< 12	< 3.2	< 3.5	< 4.0	< 3.4	14
124WForest	022305 124 W Forest SS1	2/23/2005	< 3.6	< 3.6	< 6.4	< 2.3	< 3.2	< 2.6	15	< 3.2	< 10	< 2.9	< 3.2	< 3.6	< 3.1	6.2
	022305 124 W Forest SS2	2/23/2005	< 3.5	< 3.5	< 6.2	< 2.2	< 3.1	< 2.5	< 8.3	< 3.1	< 10	< 2.8	< 3.1	< 3.5	< 3.0	7.6
	022305 124 W Forest SS3	2/23/2005	12	< 3.6	< 6.4	6.3	8.7	< 2.6	9.7	55	< 10	< 2.9	21	< 3.6	< 3.1	62
126WElm	021105 126 W Elm SS1	2/11/2005	46	51	< 11J	81	26	730	**5,700**	65	< 69	1,800	< 21	< 24	< 20	72
	021105 126 W Elm SS2	2/11/2005	< 10	< 10	< 4.6J	11	< 9.0	9.5	190	< 9.0	< 30	45	< 9.0	< 10	< 8.8	< 7.8

TABLE 3-8 B
SUBSLAB SOIL VAPOR ANALYTICAL RESULTS
(ug/m3 units)

Hartford Working Group
Hartford, Illinois

Location ID	Sample ID	Sample Date	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	1,3-BUTADIENE	BENZENE	ETHYL BENZENE	HEXANE	ISOPENTANE	M,P-XYLENE	METHYL TERT-BUTYL ETHER	METHYLCYCLOHEXANE	O-XYLENE	PROPYLBENZENE	STYRENE	TOLUENE
Subslab Comparison Value (ug/m3)			**60**	**60**	**20**	**130**	**10,000**	**2,000**	**1,150**	**4,300**	**25,000**	**30,100**	**4,300**	**1,400**	**2,600**	**3,000**
		Units	**ug/m3**	**ug/m3**	**ug/m3**	**ug/m3**	**ug/m3**	**ug/m3**	**ug/m3**	**ug/m3**	**ug/m3**	**ug/m3**	**ug/m3**	**ug/m3**	**ug/m3**	**ug/m3**
127WForest	030805 127 W Forest SS1	3/8/2005	< 3.7	< 3.7	< 6.7	< 2.4	< 3.3	< 2.7	36	< 3.3	< 11	< 3.0	< 3.3	< 3.7	< 3.2	< 2.9
	030805 127 W Forest SS2	3/8/2005	< 3.6	< 3.6	< 6.4	< 2.3	< 3.2	< 2.6	< 8.6	< 3.2	< 10	< 2.9	< 3.2	< 3.6	< 3.1	< 2.8
	030805 127 W Forest SS3	3/8/2005	< 3.5	< 3.5	< 6.4	< 2.3	< 3.1	< 2.5	< 8.5	< 3.1	< 10	< 2.9	< 3.1	< 3.5	< 3.1	< 2.7
	030805 127 W Forest SS4	3/8/2005	< 3.5	< 3.5	< 6.2	43	4.9	6.9	20	4.4	< 10	< 2.8	< 3.1	< 3.5	< 3.0	2.7
128WForest	031405 128 W Forest SS1	3/14/2005	< 3.3	< 3.3	< 6.0	< 2.2	< 3.0	< 2.4	< 8.0	4.2	< 9.8	< 2.7	< 3.0	< 3.3	< 2.9	6.1
	031405 128 W Forest SS1 Dup	3/14/2005	< 3.9	< 3.9	< 7.0	< 2.5	< 3.4	< 2.8	< 9.3	< 3.4	< 11	< 3.2	< 3.4	< 3.9	< 3.4	5
	031405 128 W Forest SS2	3/14/2005	< 3.4	< 3.4	< 6.2	< 2.2	< 3.0	< 2.4	< 8.2	3.8	< 10	< 2.8	< 3.0	< 3.4	< 3.0	7.4
	031405 128 W Forest SS3	3/14/2005	< 3.5	< 3.5	< 6.2	< 2.2	< 3.1	< 2.5	< 8.3	3.1	< 10	< 2.8	< 3.1	< 3.5	< 3.0	5.3
129EMaple	031805 129 E Maple SS1	3/18/2005	< 3.7	< 3.7	< 6.7	< 2.4	< 3.3	3.4	17	4.2	< 11	< 3.0	< 3.3	< 3.7	< 3.2	6
	031805 129 E Maple SS2	3/18/2005	< 3.9	< 3.9	< 7.0	< 2.5	< 3.4	< 2.8	17	5	< 11	< 3.2	< 3.4	< 3.9	< 3.4	5.5
	031805 129 E Maple SS3	3/18/2005	< 4.4	< 4.4	< 7.9	< 2.8	< 3.9	4	39	< 3.9	< 13	< 3.6	< 3.9	< 4.4	< 3.8	12
130WWatkins	031405 130 W Watkins SS1	3/14/2005	< 4.2	< 4.2	< 7.6	< 2.7	< 3.7	5.6	10	< 3.7	< 12	< 3.4	< 3.7	< 4.2	< 3.6	< 3.2
	031405 130 W Watkins SS2	3/14/2005	< 3.2	< 3.2	< 5.8	< 2.1	< 2.8	< 2.3	< 7.7	< 2.8	< 9.4	< 2.6	< 2.8	< 3.2	< 2.8	< 2.4
	031405 130 W Watkins SS3	3/14/2005	< 3.5	< 3.5	< 6.4	< 2.3	< 3.1	< 2.5	< 8.5	< 3.1	< 10	< 2.9	< 3.1	< 3.5	< 3.1	< 2.7
	031405 130 W Watkins SS4	3/14/2005	< 3.5	< 3.5	< 6.2	< 2.2	< 3.1	< 2.5	20	< 3.1	< 10	< 2.8	< 3.1	< 3.5	< 3.0	< 2.6
134EWatkins	030305 134 E Watkins SS1	3/3/2005	< 3.6	< 3.6	< 6.4	< 2.3	< 3.2	< 2.6	70	< 3.2	< 10	< 2.9	< 3.2	< 3.6	< 3.1	7.9
	030305 134 E Watkins SS2	3/3/2005	< 3.2	< 3.2	< 5.8	< 2.1	< 2.9	< 2.3	28	< 2.9	< 9.5	< 2.6	< 2.9	< 3.2	< 2.8	5.5
	030305 134 E Watkins SS3	3/3/2005	< 3.7	< 3.7	< 6.7	< 2.4	< 3.3	< 2.7	20	< 3.3	< 11	< 3.0	< 3.3	< 3.7	< 3.2	7.1
	030305 134 E Watkins SS4	3/3/2005	< 3.8	< 3.8	< 6.8	< 2.5	< 3.4	< 2.7	< 9.1	< 3.4	< 11	< 3.1	< 3.4	< 3.8	< 3.3	3.4
139EForest	012205-139EForest-SS1	1/22/2005	-	-	-	< 13	< 17	-	-	18	-	-	< 17	-	-	320
	012205-139EForest-SS2	1/22/2005	-	-	-	< 39	< 52	-	-	< 52	-	-	< 52	-	-	< 46
	012205-139EForest-SS3	1/22/2005	-	-	-	< 2.2	< 3.1	-	-	< 3.1	-	-	< 3.1	-	-	< 2.6
140WMaple	020705140WMAPLE SS1	2/7/2005	< 3.7	< 3.7	< 6.7	< 2.4	< 3.3	< 2.7	< 9.0	6.2	< 11	4.9	< 3.3	< 3.7	< 3.2	11
	020705140WMAPLE SS2	2/7/2005	< 3.7	< 3.7	< 6.7	< 2.4	< 3.3	< 2.7	< 9.0	5.6	< 11	5.8	< 3.3	< 3.7	< 3.2	13
	020705140WMAPLE SS3	2/7/2005	< 3.7	< 3.7	< 6.6	< 2.4	< 3.2	2.8	< 8.8	5.1	< 11	6.2	< 3.2	< 3.7	< 3.2	10
142EWatkins	013005-142EWatkins-SS1	1/30/2005	< 3.8	< 3.8	< 6.8	< 2.5	< 3.4	< 2.7	< 9.1	< 3.4	< 11	< 3.1	< 3.4	< 3.8	< 3.3	4.8
	013005-142EWatkins-SS2	1/30/2005	< 4.1	< 4.1	< 7.4	< 2.7	< 3.6	< 3.0	< 9.9	< 3.6	< 12	< 3.4	< 3.6	< 4.1	< 3.6	6
	013005-142EWatkins-SS3	1/30/2005	< 3.7	< 3.7	< 6.6	< 2.4	< 3.2	9.2	47	4.3	< 11	4.8	3.4	< 3.7	< 3.2	8.5
201NOlive	030805 201 N Olive SS1	3/8/2005	< 28	< 28	< 51	**150**	< 25	460	**5,300**	< 25	< 83	35	< 25	< 28	< 24	< 22
	030805 201 N Olive SS2	3/8/2005	19	35	< 6.6	**130**	22	240	740	160	< 11	87	46	< 3.7	< 3.2	18
	030805 201 N Olive SS2 DUP	3/8/2005	< 5.2	< 5.2	< 9.4	3.7	< 4.6	< 3.7	22	4.7	< 15	< 4.2	< 4.6	< 5.2	< 4.5	6
	030805 201 N Olive SS3	3/8/2005	< 3.5	< 3.5	< 6.2	< 2.2	< 3.1	< 2.5	16	3.6	< 10	< 2.8	< 3.1	< 3.5	< 3.0	5.5
215NDelmar	013105 215NDelmar SS1	1/31/2005	< 3.5	< 3.5	< 6.4	< 2.3	< 3.1	< 2.5	< 8.5	4.7	< 10	< 2.9	< 3.1	< 3.5	< 3.1	7
	013105 215NDelmar SS2	1/31/2005	< 3.5	< 3.5	< 6.2	2.8	< 3.1	< 2.5	< 8.3	5	< 10	< 2.8	< 3.1	< 3.5	< 3.0	9.5
	013105 215NDelmar SS3	1/31/2005	< 3.5	< 3.5	< 6.4	< 2.3	< 3.1	< 2.5	< 8.5	4.2	< 10	< 2.9	< 3.1	< 3.5	< 3.1	7.2
309NOlive	011705-309NOLIVE-SS-S	1/17/2005	-	-	-	4	< 3.1	-	-	5	-	-	< 3.1	-	-	9.6
	011705-309NOLIVE-SS-SW	1/17/2005	-	-	-	4.3	< 3.0	-	-	5.9	-	-	< 3.0	-	-	8.7
	011705-309NOLIVE-SS-NE	1/17/2005	-	-	-	5.5	< 3.0	-	-	7.3	-	-	< 3.0	-	-	11
310NDelmar	031505 310 N Delmar SS1	3/15/2005	< 3.9	< 3.9	< 7.0	< 2.5	< 3.4	< 2.8	< 9.3	< 3.4	< 11	< 3.2	< 3.4	< 3.9	< 3.4	< 3.0
	031505 310 N Delmar SS2	3/15/2005	< 4.0	< 4.0	< 7.1	4	4.2	9.4	120	15	< 12	< 3.2	4.6	< 4.0	< 3.4	5.9
	031505 310 N Delmar SS3	3/15/2005	< 160	300	< 280	47	< 140	730	**30,000**	240	< 460	980	510	< 160	< 130	< 120
	031505 310 N Delmar SS4	3/15/2005	< 40,000	< 40,000	< 72,000	**120,000**	< 36,000	**480,000**	**7,900,000**	**130,000**	< 120,000	**55,000**	**43,000**	< 40,000	< 35,000	**120,000**
	031505 310 N Delmar SS5	3/15/2005	< 3.9	< 3.9	< 7.0	13	< 3.4	7.6	43	< 3.4	< 11	< 3.2	< 3.4	< 3.9	< 3.4	9.2
610OldStLouis	021605 610 NOld St. Louis SS1	2/16/2005	< 4.2	< 4.2	< 7.6	6.5	< 3.7	37	300	< 3.7	< 12	14	< 3.7	< 4.2	< 3.6	14
	021605 610 NOld St. Louis SS2	2/16/2005	< 3.7	< 3.7	< 6.7	< 2.4	< 3.3	< 2.7	9.9	< 3.3	< 11	< 3.0	< 3.3	< 3.7	< 3.2	6.4
	021605 610 NOld St. Louis SS3	2/16/2005	< 3.3	< 3.3	< 6.0	3.3	< 3.0	5.3	12	< 3.0	< 9.8	4.1	< 3.0	< 3.3	< 2.9	10

ug/m3 - Micrograms per cubic meter

Note: If BTEX Rerun performed - the rerun results are incorporated in this table.

SS-Subslab vapor

Methods of Analysis - TO15 and D1946

" - " - Not analyzed

"**Bold**" - Exceeds action level.

<0.79 - Not detected at reporting limit

<0.79J - Estimated value, analyte detected below reporting limit

TABLE 3-9
PID/FID DATA - AREA 1

Hartford Working Group
Hartford, Illinois

Location	Sample Interval (ft bgs)	PID (ppm)	FID (ppm)
HA-1	(5-6')	1	7
HA-2	(5-6')	2	10
HA-3	(5-6')	1	8
HA-4	(5-6')	1	1,000
HA-5	(5-6')	1	4
HA-6	(5-6')	1	14
HA-7	(5-6')	0	0
HA-8	(5-6')	14	2,410
HA-10	(5-6')	52	935
HA-13	(5-6')	19	2,650
HA-15	(5-6')	0	10
HA-16	(5-6')	24	450
HA-19	(5-6')	72	1,890
HA-21	(5-6')	2	8
HA-23	(5-6')	0	10
HA-24	(5-6')	2	956
HA-27	(5-6')	62	2,010
HA-29	(5-6')	8	515
HA-31	(5-6')	0	50
HA-34	(5-6')	25	850
HA-36	(5-6')	6	576
HA-37	(5-6')	0	20

ft bgs - Feet below ground surface
ppm - Parts per million

TABLE 3-10
AREA 1-SOIL SAMPLE ANALYTICAL RESULTS

Hartford Working Group
Hartford, Illinois

Sample ID	HA-8 (5-6)	HA-8D (5-6)	HA-10 (5-6)	HA-13 (5-6)	HA-16 (5-6)	HA-19 (5-6)	HA-21 (5-6)	HA-24 (5-6)	HA-27 (5-6)	HA-29 (5-6)	HA-31 (5-6)	HA-34 (5-6)	HA-36 (5-6)	HA-37 (5-6)
Depth Interval (ft. bgs)	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6
Date	17-Feb-05	17-Feb-05	17-Feb-05	17-Feb-05	17-Feb-05	17-Feb-05	16-Feb-05	16-Feb-05	16-Feb-05	16-Feb-05	15-Feb-05	16-Feb-05	16-Feb-05	15-Feb-05
PID/FID	14 / 2,410	14 / 2,410	52 / 935	19 / 2,650	24 / 450	72 / 1,890	2/8	2 / 956	62 / 2,010	8 / 515	0 / 515	25 / 850	6 / 576	0 / 20
ASTM D2974	%	%	%	%	%	%	%	%	%	%	%	%	%	%
Percent Moisture	21.2	24.4	26.3	20.8	24.2	22.9	27.2	26.3	20.9	20.9	22.4	19.9	20.8	15.5
Standard Method 18th Ed 2540G	%	%	%	%	%	%	%	%	%	%	%	%	%	%
Total Solids	78.8	75.6	73.7	79.2	75.8	77.1	72.8	73.7	79.1	79.1	77.6	80.1	79.2	84.5
SW-846 5035, 8260B	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
BENZENE	12.1	7.3	1,450	95.5	55.4	2,480	1.2	0.8 J	994	96.7	0.8 J	2	125	1 J
ETHYL BENZENE	3.3 U	3.6 U	333	3.5 J	3.6 J	485	4.0 U	4.0 U	7.6	5.5	4.0 U	3.6 U	3.3 U	2.9 U
TOLUENE	3.3 U	3.6 J	5.9	3.5 J	3.6 U	15	4.0 U	4.0 U	3.3 J	3.6 J	4.0 J	3.6 U	3.3 U	2.9 U
XYLENES (total)	3.3 J	3.6 U	246	16.2	3.6 J	1,060	4.0 J	4.0 U	14.3	13.6	4.0 J	3.6 U	4.0	2.9 J
METHYL TERT-BUTYL ETHER	1.3 U	1.4 U	1.6 U	1.4 U	1.4 U	1.4 U	1.6 U	1.6 U	1.3 U	1.5 U	1.6 U	1.4 U	1.3 U	1.2 U
SW-846 5035, 8260B	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TPH - GRO	1.47	0.883	5.49	1.5	1.48	6.35	0.810 U	0.794 J	3.05	1.07	0.796 U	1.94	0.857	0.589 U
SW-846 3550B, 8270C	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TPH-DRO	14.8 U	15.8 U	16.4 U	14.8 J	15.9 U	16 U	16.1 U	16.6 U	15.3 U	15.2 U	15.7 U	14.7 J	15.2 U	13.9 U

ft. bgs - Feet below ground surface.
HA - Hand Augered boring
TPH - Total Petroleum Hydrocarbon
GRO - Gasoline Range Organics
DRO - Diesel Range Organics
PID/FID Readings - obtained with TVA 1000
PID/FID Readings - in parts per million (ppm)
ug/kg - Micrograms per kilogram.
mg/kg - Milligrams per kilogram.
FO - Flame-out of FID
J - Analyte detected below reporting limits
U - Not detected at the reporting limit.

TABLE 3-11
PID/FID DATA - AREA 2

Hartford Working Group
Hartford, Illinois

Location	Sample Interval (ft bgs)	PID (ppm)	FID (ppm)
GP-1	0-3'	13	1,280
GP-1	3-6'	52	112
GP-1	6-9'	35	1,260
GP-1	9-12'	481	4,600
GP-1	12-15'	130	750
GP-2	0-3'	13	1,280
GP-2	3-6'	24	722
GP-2	6-9'	231	4,600
GP-2	9-12'	475	10,000
GP-2	12-15'	550	10,000
GP-3	0-3'	67	840
GP-3	3-6'	12	75
GP-3	6-9'	710	2,100
GP-3	9-12'	1,000	110,000
GP-3	12-15'	717	8,000
GP-4	0-3'	48	1,540
GP-4	3-6'	20	515
GP-4	6-9'	415	15,000
GP-4	9-12'	790	74,000
GP-4	12-15'	717	8,000
GP-5	0-3'	15	1,111
GP-5	3-6'	15	924
GP-5	6-9'	>TVA	>TVA
GP-5	9-12'	>TVA	>TVA
GP-5	12-15'	>TVA	>TVA
GP-6	0-3'	18	528
GP-6	3-6'	35	2,209
GP-6	6-9'	40	947
GP-6	9-12'	>TVA	>TVA
GP-6	12-15'	>TVA	>TVA
GP-7	0-3'	85	2,680
GP-7	3-6'	25	708
GP-7	6-9'	58	980
GP-7	9-12'	110	700
GP-8	0-3'	3	8
GP-8	3-6'	1	4.8
GP-8	6-9'	1.5	6
GP-8	9-12'	1	25
GP-9	0-3'	2.17	5.98
GP-9	3-6'	0.94	3.65
GP-9	6-9'	0.49	3.15
GP-9	9-12'	1.09	3.76
GP-10	0-3'	2.27	5.72
GP-10	3-4.5'	0.63	3.39
GP-10	4.5-6'	0.29	2.54
GP-10	6-9'	0.09	2.07
GP-10	9-12'	0.03	2.18
GP-11	0-3'	1.5	7.05
GP-11	3-6'	0.28	3.15
GP-11	6-9'	0.04	2.46
GP-11	9-12'	21.4	29.7
GP-12	0-3'	14.25	101
GP-12	3-6'	45	241
GP-12	6-9'	78	292
GP-12	9-12'	66.29	127

TABLE 3-11
PID/FID DATA - AREA 2

Hartford Working Group
Hartford, Illinois

Location	Sample Interval (ft bgs)	PID (ppm)	FID (ppm)
GP-13	0-3'	0.29	3.16
GP-13	3-6'	0.11	3.19
GP-13	6-9'	0	2.63
GP-13	9-12'	0.35	4.34
GP-14	0-3'	0.5	3.1
GP-14	3-6'	0.6	3
GP-14	6-9'	0	0.7
GP-14	9-12'	0	1.7
GP-15	0-3'	0.1	1.2
GP-15	3-6'	0.2	4.6
GP-15	6-9'	0	0.5
GP-15	9-12'	0	2.5
GP-16	0-3'	0	0
GP-16	3-6'	0.1	3
GP-16	6-9'	0.5	2
GP-16	9-12'	0.5	3
GP-17	0-3'	2	340
GP-17	3-6'	7.7	345
GP-17	6-9'	3	75
GP-17	9-12'	1.8	19
GP-18	0-3'	0.5	3
GP-18	3-6'	0.5	3
GP-18	6-9'	0.3	4
GP-18	9-12'	0	3.5
GP-19	0-3'	4	5
GP-19	3-6'	1.2	5.5
GP-19	6-9'	1.2	8.4
GP-19	9-12'	2	13.7
GP-20	0-3'	0	3.4
GP-20	3-6'	0	1.2
GP-20	6-9'	0	3.1
GP-21	0-3'	0.5	20
GP-21	3-6'	1.2	30
GP-21	6-9'	14	56
GP-21	9-12'	35	108
GP-22	0-3'	1.5	5
GP-22	3-6'	4.2	44
GP-22	6-9'	4	34
GP-22	9-12'	12	50
GP-23	0-3'	40	584
GP-23	3-6'	36	830
GP-23	6-9'	75	510
GP-23	9-12'	46	375
GP-24	0-3'	560	6,870
GP-24	3-6'	429	5,440
GP-24	6-9'	16	159
GP-24	9-12'	17	136
GP-25	0-3'	0.5	2
GP-25	3-6'	1	4.6
GP-25	6-9'	1	4.4
GP-25	9-12'	0.5	2.4
GP-26	0-3'	45	2,800
GP-26	3-6'	28	930
GP-26	6-9'	74	1,800
GP-26	9-12'	104	1,700

ft bgs - Feet below ground surface
ppm - Parts per million
>TVA - Exceeded maximum ppm reading for TVA increment.

TABLE 3-12
AREA 2 - SOIL SAMPLE ANALYTICAL RESULTS

Hartford Working Group
Hartford, Illinois

Sample ID	GP-1 (9-12)	GP-2 (12-15)	GP-3 (9-12)	GP-4 (12-15)	GP-5 (7-9)	GP-6 (11-12)	GP-7 (0-3)	GP-8 (9-12)	GP-9 (0-3)	GP-10 (0-3)
Depth Interval (ft. bgs)	9-12	12-15	9-12	12-15	7-9	11-12	0-3	9-12	0-3	0-3
Date	06-Jan-05	06-Jan-05	06-Jan-05	06-Jan-05	06-Jan-05	06-Jan-05	07-Jan-05	07-Jan-05	07-Jan-05	07-Jan-05
PID/FID	481 /4,600	550 / 1%	1,000 / 11%	717 / 8,000	> TVA	> TVA	85 / 2,680	1/25	2.17 / 5.98	2.27 / 5.72
ASTM D2974	%	%	%	%	%	%	%	%	%	%
Percent Moisture	22.3	21.1	17.7	23	19.1	13.7	22	23.9	18.8	17.2
Standard Method 18th Ed 2540G	%	%	%	%	%	%	%	%	%	%
Total Solids	77.7	78.9	82.3	77	80.9	86.3	78	76.1	81.2	82.8
SW-846 5035, 8260B	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
BENZENE	18 U	55,900	34,700	9,550	10,500	16,500	521	0.8	0.8	0.9 U
ETHYL BENZENE	89.8 U	125,000	76,600	18,800	1,990 J	37,700	28	3.7 U	3.4 U	4.6 U
TOLUENE	89.8 U	364,000	127,000	22,600	2,440	87,600	15.4	3.7 J	3.4 U	4.6 J
XYLENES (total)	89.8 J	535,000	309,000	47,500	1,990 J	170,000	110	3.7 J	3.4 J	4.6 J
METHYL TERT-BUTYL ETHER	35.9 U	3,180 U	1,400 U	1,380 U	797 U	6,070 U	1.6 U	1.5 U	1.4 U	1.8 U
SW-846 5035, 8260B	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TPH - GRO	18 J	8,420	4,750	1,240	763	3,040 J	3.08	0.742 J	0.686 U	0.916 U
SW-846 3550B, 8270C	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TPH-DRO	1,390	65.9	1,070	17.6	4,390	61	15.4 U	16 U	14.9 J	14.7 J

ft. bgs - Feet below ground surface.
VMP - Vapor Monitoring Point
TPH - Total Petroleum Hydrocarbon
GRO - Gasoline Range Organics
DRO - Diesel Range Organics
PID/FID Readings - obtained with TVA 1000
PID/FID Readings - in parts per million (ppm)
ug/kg - Micrograms per kilogram.
mg/kg - Milligrams per kilogram.
FO - Flame-out of FID
J - Analyte detected below reporting limits
U - Not detected at the reporting limit.
> - Exdeeded TVA Meter range.
NA-Not available.

TABLE 3-12
AREA 2 - SOIL SAMPLE ANALYTICAL RESULTS

Hartford Working Group
Hartford, Illinois

Sample ID	GP-11 (9-12)	GP-12 (6-9)	GP-13 (9-12)	GP-14 (3-6)	GP-15 (3-6)	GP-16 (9-12)	GP-17 (3-6)	GP-18 (3-6)	GP-19 (9-12)	GP-20 (0-3)
Depth Interval (ft. bgs)	9-12	6-9	9-12	3-6	3-6	9-12	3-6	3-6	9-12	0-3
Date	07-Jan-05	07-Jan-05	07-Jan-05	10-Jan-05	10-Jan-05	10-Jan-05	10-Jan-05	10-Jan-05	10-Jan-05	10-Jan-05
PID/FID	21.40 / 29.7	78 / 292	0.35 / 4.34	0.6 / 3	0.2 / 4.6	0.5 / 3	7.7 / 3.45	0.5 / 3	2 / 13.7	0 / 3.4
ASTM D2974	%	%	%	%	%	%	%	%	%	%
Percent Moisture	27.2	21.7	12.8	19.7	20.9	29.9	19.3	19.9	20.1	16.9
Standard Method 18th Ed 2540G	%	%	%	%	%	%	%	%	%	%
Total Solids	72.8	78.3	87.2	80.3	79.1	70.1	80.7	80.1	79.9	83.1
SW-846 5035, 8260B	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
BENZENE	42.5	566	1 J	3.7	0.8 J	0.9 J	2.2	1	18.1 U	0.7 J
ETHYL BENZENE	15.5	83.3	4.9 U	4.8 J	3.8 J	4.5 J	3.7 J	3.5 J	90.3 U	3.3 J
TOLUENE	139	215	4.9 J	7.7	3.8 J	4.5 J	9.8	3.7	90.3 U	3.3 J
XYLENES (total)	236	341	4.9 J	6.5	4.4	4.8	10.5	4.7	90.3 J	4.3
METHYL TERT-BUTYL ETHER	2.5 U	2.1 U	1.9 U	1.9 U	1.5 U	1.8 U	1.5 U	1.4 U	36.1 U	1.3 U
SW-846 5035, 8260B	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TPH - GRO	3.22	10.6	0.974 U	0.954 U	0.77 U	0.906 U	0.74 J	0.699 U	18.1 U	0.66 J
SW-846 3550B, 8270C	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TPH-DRO	16.6 U	25.4	13.8 U	14.8 U	14.9 U	16.8 U	14.6 J	14.7 U	15.1 J	14.3 U

ft. bgs - Feet below ground surface.
VMP - Vapor Monitoring Point
TPH - Total Petroleum Hydrocarbon
GRO - Gasoline Range Organics
DRO - Diesel Range Organics
PID/FID Readings - obtained with TVA 1000
PID/FID Readings - in parts per million (ppm)
ug/kg - Micrograms per kilogram.
mg/kg - Milligrams per kilogram.
FO - Flame-out of FID
J - Analyte detected below reporting limits
U - Not detected at the reporting limit.
> - Exdeeded TVA Meter range.
NA-Not available.

TABLE 3-12
AREA 2 - SOIL SAMPLE ANALYTICAL RESULTS

Hartford Working Group
Hartford, Illinois

Sample ID	GP-21 (9-12)	GP-22 (9-12)	GP-23 (3-6)	GP-24 (0-3)	GP-25 (3-6)	GP-26 (9-12)	GP-27 (3-6)	GP-28 (0-3)	GP-29 (0-3)
Depth Interval (ft. bgs)	9-12	9-12	3-6	0-3	3-6	9-12	3-6	0-3	0-3
Date	10-Jan-05	11-Jan-05	11-Jan-05	11-Jan-05	11-Jan-05	11-Jan-05	14-Jan-05	14-Jan-05	14-Jan-05
PID/FID	35 / 108	12/50	36 / 830	560 / 6,870	1 / 4.6	104 / 1,700	NA	NA	NA
ASTM D2974	%	%	%	%	%	%	%	%	%
Percent Moisture	24.6	25.1	14.5	18.4	23.9	22.8	21.9	17.5	21.5
Standard Method 18th Ed 2540G	%	%	%	%	%	%	%	%	%
Total Solids	75.4	74.9	85.5	81.6	76.1	77.2	78.1	82.5	78.5
SW-846 5035, 8260B	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
BENZENE	1,360	212	14.4	4,020	8.4	544	3.2	1 J	1.1
ETHYL BENZENE	503	304	3.8 J	369	3.8 J	166	5 J	5.1 U	4.8 U
TOLUENE	962	95.8 J	3.8 J	3,880	5.2	97.2 J	5 J	5.1 J	4.8 U
XYLENES (total)	2,180	1,120	4.9	1,280	3.9	415	6.1	5.1 J	4.8 J
METHYL TERT-BUTYL ETHER	38 U	38.3 U	1.5 U	34.5 U	1.5 U	38.9 U	2 U	2 U	1.9 U
SW-846 5035, 8260B	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TPH - GRO	15.6	19.2 J	1.62	36.9	0.768 U	19.4 J	2	1 J	0.961 U
SW-846 3550B, 8270C	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TPH-DRO	16 U	15.9 U	14.1 U	14.4 J	15.4 U	15.6 J	15.1 J	14.6 J	29.9 J

ft. bgs - Feet below ground surface.
VMP - Vapor Monitoring Point
TPH - Total Petroleum Hydrocarbon
GRO - Gasoline Range Organics
DRO - Diesel Range Organics
PID/FID Readings - obtained with TVA 1000
PID/FID Readings - in parts per million (ppm)
ug/kg - Micrograms per kilogram.
mg/kg - Milligrams per kilogram.
FO - Flame-out of FID
J - Analyte detected below reporting limits
U - Not detected at the reporting limit.
> - Exdeeded TVA Meter range.
NA-Not available.

APPENDIX A

SOIL BORING LOGS

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** HA-1
	Project Number:	01005-093-351	
	Boring Location:	North of W. Rand Rd.	*Sheet:* 1 of 1
	Survey Coordinates (ft.):	N - 791718.51 E -2316449.89	*Date/Time Started:* 02/14/05 1335
	Drilling Method:	Hand Auger	
Logged By: Matthew Laub	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 02/14/05 1410
Drilling Co.: GRP		*Weather (°F):* 45 degrees, cloudy	
Drillers:		*Drilling Equip.:*	

Depth (feet)	Elevation (429.49 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	428.49	1 (0-1)	Hand Auger	NA		**ORGANIC MATTER (OL/OH)**	
						CLAY (CL)	
2	427.5	2 (1-2)				Gray clay, soft, moist	
3	426.5	3 (2-3)					
4	425.5	4 (3-4)					
5	424.5	5 (4-5)					
6	423.5	6 (5-6)			1 / 7		

End of Boring @ 6 feet below ground surface.

NOTES: AMSL = Above mean sea level

PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)

FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: none submitted

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** HA-2
	Project Number:	01005-093-351	
	Boring Location:	North of W. Rand Rd.	*Sheet:* 1 of 1
	Survey Coordinates (ft.):	N - 791714.62 E - 2316495.67	*Date/Time Started:* 02/14/05 1135
	Drilling Method:	Hand Auger	
Logged By: Matthew Laub	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 02/14/05 1300
Drilling Co.: GRP		*Weather (°F):* 45 degrees, cloudy	
Drillers:		*Drilling Equip.:*	

Depth (feet)	Elevation (430.24 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	429.24	1 (0-1)	Hand Auger	NA		**ORGANIC MATTER (OL/OH)**	
						CLAY (CL)	
2	428.2	2 (1-2)				Gray clay, soft, moist	
3	427.2	3 (2-3)					
4	426.2	4 (3-4)					
5	425.2	5 (4-5)					
6	424.2	6 (5-6)			2 / 10		

End of Boring @ 6 feet below ground surface.

NOTES: AMSL = Above mean sea level

PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)

FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: none submitted

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** HA-3
	Project Number:	01005-093-351	
	Boring Location:	North of W. Rand Rd.	*Sheet:* 1 of 1
	Survey Coordinates (ft.):	N - 791713.67 E - 2316548.37	*Date/Time Started:* 02/14/05 0900
	Drilling Method:	Hand Auger	
Logged By: Matthew Laub	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 02/14/05 1045
Drilling Co.: GRP		*Weather (°F):* 45 degrees, cloudy	
Drillers:		*Drilling Equip.:*	

Depth (feet)	Elevation (430.65 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	429.65	1 (0-1)	Hand Auger	NA		**ORGANIC MATTER (OL/OH)**	
						Silty CLAY (ML/CL)	
2	428.7	2 (1-2)				Olive-gray silty clay,soft, moist	
3	427.7	3 (2-3)				Becoming slightly wet	
						CLAY (CL)	
4	426.7	4 (3-4)				Gray clay, medium, moist	
5	425.7	5 (4-5)					
6	424.7	6 (5-6)			1 / 8		

End of Boring @ 6 feet below ground surface.

NOTES: AMSL = Above mean sea level

PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)

FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: none submitted

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** HA-4
	Project Number:	01005-093-351	
	Boring Location:	North of W. Rand Rd.	
			Sheet: 1 of 1
	Survey Coordinates (ft.):	N - 791713.47 E -2316627.68	*Date/Time Started:* 02/14/05 1500
	Drilling Method:	Hand Auger	
Logged By: Matthew Laub	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 02/14/05 1540
Drilling Co.: GRP		*Weather (°F):* 45 degrees, cloudy	
Drillers:		*Drilling Equip.:*	

Depth (feet)	Elevation (430.89 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	429.89	1 (0-1)	Hand Auger	NA		**ORGANIC MATTER (OL/OH)**	
						CLAY (CL)	
2	428.9	2 (1-2)				Gray clay, stiff, moist	
3	427.9	3 (2-3)					
4	426.9	4 (3-4)					
5	425.9	5 (4-5)					
6	424.9	6 (5-6)			1 / 1000		No odors, possible equipment error.

End of Boring @ 6 feet below ground surface.

NOTES: AMSL = Above mean sea level

PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)

FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: none submitted

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** HA-5
	Project Number:	01005-093-351	
	Boring Location:	North of W. Rand Rd.	*Sheet:* 1 of 1
	Survey Coordinates (ft.):	N - 791713.34 E -231678.37	*Date/Time Started:* 02/14/05 1550
	Drilling Method:	Hand Auger	
Logged By: Matthew Laub	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 02/14/05 1630
Drilling Co.: GRP		*Weather (°F):* 45 degrees, cloudy	
Drillers:		*Drilling Equip.:*	

Depth (feet)	Elevation (430.68 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	429.68	1 (0-1)	Hand Auger	NA		**ORGANIC MATTER (OL/OH)**	
						CLAY (CL)	
2	428.7	2 (1-2)				Gray clay, medium stiff, moist	
3	427.7	3 (2-3)					
4	426.7	4 (3-4)					
5	425.7	5 (4-5)					
6	424.7	6 (5-6)			1 / 4		

End of Boring @ 6 feet below ground surface.

NOTES: AMSL = Above mean sea level

PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)

FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: none submitted

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** HA-7
	Project Number:	01005-093-351	
	Boring Location:	North of W. Rand Rd.	*Sheet:* 1 of 1
	Survey Coordinates (ft.):	N - 791713.55 E -2316766.80	*Date/Time Started:* 02/15/05 0850
	Drilling Method:	Hand Auger	
Logged By: Matthew Laub	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 02/15/05 0930
Drilling Co.: GRP		*Weather (°F):* 58 degrees, partly cloudy	
Drillers:		*Drilling Equip.:*	

Depth (feet)	Elevation (430.81 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	429.81	1 (0-1)	Hand Auger	NA		**ORGANIC MATTER (OL/OH)**	
						Silty CLAY (ML/CL)	
2	428.8	2 (1-2)				Brown silty clay, medium stiff, moist	
3	427.8	3 (2-3)					
4	426.8	4 (3-4)				**CLAY (CL)** Gray clay, soft, moist	
5	425.8	5 (4-5)					
6	424.8	6 (5-6)			0 / 0	Gray clay, medium, moist	

End of Boring @ 6 feet below ground surface.

NOTES: AMSL = Above mean sea level

PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)

FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: none submitted

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** HA-6
	Project Number:	01005-093-351	
	Boring Location:	North of W. Rand Rd.	*Sheet:* 1 of 1
	Survey Coordinates (ft.):	N - 791712.91 E -2316727.30	*Date/Time Started:* 02/15/05 0725
	Drilling Method:	Hand Auger	
Logged By: Matthew Laub	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 02/15/05 0810
Drilling Co.: GRP		*Weather (°F):* 58 degrees, partly cloudy	
Drillers:		*Drilling Equip.:*	

Depth (feet)	Elevation (430.62 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	429.62	1 (0-1)	Hand Auger	NA		**ORGANIC MATTER (OL/OH)**	
						Silty CLAY (ML/CL)	
2	428.6	2 (1-2)				Brown silty clay, medium stiff, moist	
						Some sand interbeds	
3	427.6	3 (2-3)					
						CLAY (CL)	
4	426.6	4 (3-4)				Gray clay,stiff, dry	
5	425.6	5 (4-5)					
6	424.6	6 (5-6)			1 / 14	moist	

End of Boring @ 6 feet below ground surface.

NOTES: AMSL = Above mean sea level

PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)

FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: none submitted

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** HA-8
	Project Number:	01005-093-351	
	Boring Location:	In field west of HCC	
			Sheet: 1 of 1
	Survey Coordinates (ft.):	N - 791657.77 E -2316434.41	*Date/Time Started:* 02/17/05 1135
	Drilling Method:	Hand Auger	
Logged By: Matthew Laub	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 02/17/05 1200
Drilling Co.: GRP		*Weather (°F):* 40 degrees, partly cloudy	
Drillers:		*Drilling Equip.:*	

Depth (feet)	Elevation (430.52 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	429.52	1 (0-1)	Hand Auger	NA		**ORGANIC MATTER (OL/OH)**	
						SILTY CLAY (ML/CL) Brown silty clay, soft, moist	
2	428.5	2 (1-2)					
3	427.5	3 (2-3)				**SAND (SW)** Light brown sand, fine-grained, moist	
4	426.5	4 (3-4)					
5	425.5	5 (4-5)				**CLAY (CL)** Gray clay, medium stiff, moist	
6	424.5	6 (5-6)			14 / 2410		HA-8 & HA-8 Dup. (5-6') @ 1150

End of Boring @ 6 feet below ground surface.

NOTES: AMSL = Above mean sea level

PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)

FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-GRO & DRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** HA-10
	Project Number:	01005-093-351	
	Boring Location:	In field west of HCC	
			Sheet: 1 of 1
	Survey Coordinates (ft.):	N - 791656.87 E -2316533.82	*Date/Time Started:*
	Drilling Method:	Hand Auger	02/17/05 1330
Logged By: Matthew Laub	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:*
Drilling Co.: GRP		*Weather (°F):* 40 degrees, partly cloudy	02/17/05 1400
Drillers:		*Drilling Equip.:*	

Depth (feet)	Elevation (430.12 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	429.12	1 (0-1)	Hand Auger	NA		**ORGANIC MATTER (OL/OH)**	
						SILT (ML) Brown silt, medium stiff, moist	
2	428.1	2 (1-2)					
3	427.1	3 (2-3)				**CLAY (CL)** Gray clay, medium stiff, moist	
4	426.1	4 (3-4)					
5	425.1	5 (4-5)					
6	424.1	6 (5-6)			52 / 935		HA-10 (5-6') @ 1345

End of Boring @ 6 feet below ground surface.

NOTES: AMSL = Above mean sea level

PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)

FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-GRO & DRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** HA-13
	Project Number:	01005-093-351	
	Boring Location:	In field west of HCC	
			Sheet: 1 of 1
	Survey Coordinates (ft.):	N - 791657.40 E -2316674.25	*Date/Time Started:* 02/17/05 1430
	Drilling Method:	Hand Auger	
Logged By: Matthew Laub	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 02/17/05 1500
Drilling Co.: GRP		*Weather (°F):* 40 degrees, partly cloudy	
Drillers:		*Drilling Equip.:*	

Depth (feet)	Elevation (430.24 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	429.24	1 (0-1)	Hand Auger	NA		**ORGANIC MATTER (OL/OH)**	
						SILTY CLAY (ML/CL)	
2	428.2	2 (1-2)				Brown silty clay, medium stiff, moist	
3	427.2	3 (2-3)				**CLAY (CL)** Grayish brown clay, medium stiff, moist	
4	426.2	4 (3-4)					
5	425.2	5 (4-5)					
6	424.2	6 (5-6)			19 / 2650	Gray clay, medium, moist	HA-13 (5-6') @ 1455

End of Boring @ 6 feet below ground surface.

NOTES: AMSL = Above mean sea level

PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)

FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-GRO & DRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** HA-15
	Project Number:	01005-093-351	
	Boring Location:	In field north of HCC	
			Sheet: 1 of 1
	Survey Coordinates (ft.):	N - 791660.53 E -2316784.98	*Date/Time Started:* 02/15/05 1000
	Drilling Method:	Hand Auger	
Logged By: Matthew Laub	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 02/15/05 1040
Drilling Co.: GRP		*Weather (°F):* 58 degrees, partly cloudy	
Drillers:		*Drilling Equip.:*	

Depth (feet)	Elevation (430.33 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	429.33	1 (0-1)	Hand Auger	NA		**ORGANIC MATTER (OL/OH)**	
						SILT (ML) Brown silt, soft, dry	
2	428.3	2 (1-2)					
3	427.3	3 (2-3)					
4	426.3	4 (3-4)				**CLAY (CL)** Gray clay, medium stiff, moist	
5	425.3	5 (4-5)					
6	424.3	6 (5-6)			0 / 10		

End of Boring @ 6 feet below ground surface.

NOTES: AMSL = Above mean sea level

PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)

FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: none submitted

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** HA-16
	Project Number:	01005-093-351	
	Boring Location:	In field west of HCC	
			Sheet: 1 of 1
	Survey Coordinates (ft.):	N - 791614.28 E -2316458.42	*Date/Time Started:* 02/17/05 1030
	Drilling Method:	Hand Auger	
Logged By: Matthew Laub	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 02/17/05 1100
Drilling Co.: GRP		*Weather (°F):* 40 degrees, partly cloudy	
Drillers:		*Drilling Equip.:*	

Depth (feet)	Elevation (430.28 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	429.28	1 (0-1)	Hand Auger	NA		**ORGANIC MATTER (OL/OH)**	
						SILTY CLAY (ML/CL) Brown silty clay, medium stiff, moist	
2	428.3	2 (1-2)					
3	427.3	3 (2-3)					
4	426.3	4 (3-4)				**CLAY (CL)** Gray clay, soft, moist, slight orange mottling	
5	425.3	5 (4-5)					
6	424.3	6 (5-6)			24 / 450		HA-16 (5-6) @ 1055

End of Boring @ 6 feet below ground surface.

NOTES: AMSL = Above mean sea level

PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)

FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-GRO & DRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** HA-19
	Project Number:	01005-093-351	
	Boring Location:	In field north of HCC	
			Sheet: 1 of 1
	Survey Coordinates (ft.):	N - 791613.01 E -2316607.81	*Date/Time Started:* 02/17/05 0740
	Drilling Method:	Hand Auger	
Logged By: Matthew Laub	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 02/17/05 0835
Drilling Co.: GRP		*Weather (°F):* 40 degrees, partly cloudy	
Drillers:		*Drilling Equip.:*	

Depth (feet)	Elevation (430.76 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	429.76	1 (0-1)	Hand Auger	NA		**ORGANIC MATTER (OL/OH)**	
						SILTY CLAY (ML/CL) Brownish gray silty clay, medium stiff, moist	
2	428.8	2 (1-2)					
3	427.8	3 (2-3)				**SILTY SAND (SM)** Gray silty sand, fine-grained, wet	
4	426.8	4 (3-4)				**CLAY (CL)** Gray clay, medium stiff, moist	
5	425.8	5 (4-5)					
6	424.8	6 (5-6)			72 / 1890		HA-19 (5-6') @ 0825

End of Boring @ 6 feet below ground surface.

NOTES: AMSL = Above mean sea level

PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)

FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-GRO & DRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** HA-21
	Project Number:	01005-093-351	
	Boring Location:	In field north of HCC	
			Sheet: 1 of 1
	Survey Coordinates (ft.):	N - 791614.23 E -2316707.85	*Date/Time Started:* 02/16/05 1500
	Drilling Method:	Hand Auger	
Logged By: Matthew Laub	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 02/16/05 1530
Drilling Co.: GRP		*Weather (°F):* 40 degrees, partly cloudy	
Drillers:		*Drilling Equip.:*	

Depth (feet)	Elevation (430.64 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	429.64	1 (0-1)	Hand Auger	NA		**ORGANIC MATTER (OL/OH)**	
						SILTY CLAY (ML/CL)	
2	428.6	2 (1-2)				Gray silty clay, medium stiff, moist	
3	427.6	3 (2-3)				Brown silty clay, medium stiff, moist	
4	426.6	4 (3-4)				**SILTY SAND (SM)** Olive gray silty sand, fine-grained, moist	
5	425.6	5 (4-5)				**CLAY (CL)** Gray clay, medium stiff, moist	
6	424.6	6 (5-6)			2 / 8		HA-21 (5-6') @ 1530

End of Boring @ 6 feet below ground surface.

NOTES: AMSL = Above mean sea level

PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)

FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-GRO & DRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** HA-23
	Project Number:	01005-093-351	
	Boring Location:	In field north of HCC	*Sheet:* 1 of 1
	Survey Coordinates (ft.):	N - 791614.28 E -2316800.72	*Date/Time Started:* 02/15/05 1040
	Drilling Method:	Hand Auger	
Logged By: Matthew Laub	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 02/15/05 1115
Drilling Co.: GRP		*Weather (°F):* 58 degrees, partly cloudy	
Drillers:		*Drilling Equip.:*	

Depth (feet)	Elevation (430.83 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	429.83	1 (0-1)	Hand Auger	NA		**ORGANIC MATTER (OL/OH)**	
						SILT (ML) Brown silt, soft, moist	
2	428.8	2 (1-2)					
3	427.8	3 (2-3)				wet	
4	426.8	4 (3-4)				**CLAY (CL)** Gray clay, soft, wet	
5	425.8	5 (4-5)				**SAND (SW)** Gray sand, medium-grained, wet	
6	424.8	6 (5-6)			0 / 10	**CLAY (CL)** Gray clay, soft, wet	

End of Boring @ 6 feet below ground surface.

NOTES: AMSL = Above mean sea level

PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)

FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: none submitted

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** HA-24
	Project Number:	01005-093-351	
	Boring Location:	In field west of HCC	
			Sheet: 1 of 1
	Survey Coordinates (ft.):	N - 791565.29 E -2316430.59	*Date/Time Started:* 02/16/05 1135
	Drilling Method:	Hand Auger	
Logged By: Matthew Laub	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 02/16/05 1205
Drilling Co.: GRP		*Weather (°F):* 40 degrees, partly cloudy	
Drillers:		*Drilling Equip.:*	

Depth (feet)	Elevation (430.27 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	429.27	1 (0-1)	Hand Auger	NA		**ORGANIC MATTER (OL/OH)**	
2	428.3	2 (1-2)				**SILTY CLAY (CL/ML)** Brown silty clay, soft, moist	
3	427.3	3 (2-3)				**SILTY SAND (SM)** Brown silty sand, fine-graded, well graded, moist	
4	426.3	4 (3-4)				**CLAY (CL)** Gray clay, soft, moist	
5	425.3	5 (4-5)					
6	424.3	6 (5-6)			2 / 956		HA-24 (5-6') @ 1200

End of Boring @ 6 feet below ground surface.

NOTES: AMSL = Above mean sea level

PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)

FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-GRO & DRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** HA-27
	Project Number:	01005-093-351	
	Boring Location:	In field west of HCC	
			Sheet: 1 of 1
	Survey Coordinates (ft.):	N - 791563.41 E -2316580.03	*Date/Time Started:*
	Drilling Method:	Hand Auger	02/16/05 1335
Logged By: Matthew Laub	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:*
Drilling Co.: GRP		*Weather (°F):* 40 degrees, partly cloudy	02/16/05 1405
Drillers:		*Drilling Equip.:*	

Depth (feet)	Elevation (430.74 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	429.74	1 (0-1)	Hand Auger	NA		**ORGANIC MATTER (OL/OH)**	
						SILTY CLAY (CL/ML) Brown silty clay, medium stiff, moist	
2	428.7	2 (1-2)					
3	427.7	3 (2-3)				**SILTY SAND (SM)** Gray silty sand, fine-graded, well graded, moist to wet	
4	426.7	4 (3-4)				**CLAY (CL)** Gray clay, medium stiff, moist	
5	425.7	5 (4-5)					
6	424.7	6 (5-6)			62 / 2010	Gray clay, stiff, moist	HA-27 (5-6') @ 1355

End of Boring @ 6 feet below ground surface.

NOTES: AMSL = Above mean sea level

PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)

FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-GRO & DRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** HA-29
	Project Number:	01005-093-351	
	Boring Location:	In field north of HCC	
			Sheet: 1 of 1
	Survey Coordinates (ft.):	N - 791564.93 E -2316681.43	*Date/Time Started:* 02/16/05 1500
	Drilling Method:	Hand Auger	
Logged By: Matthew Laub	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 02/16/05 1530
Drilling Co.: GRP		*Weather (ºF):* 40 degrees, partly cloudy	
Drillers:		*Drilling Equip.:*	

Depth (feet)	Elevation (431.06 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	430.06	1 (0-1)	Hand Auger	NA		**ORGANIC MATTER (OL/OH)**	
						CLAY (CL)	
2	429.1	2 (1-2)				Gray clay, medium stiff, moist	
3	428.1	3 (2-3)					
4	427.1	4 (3-4)					
5	426.1	5 (4-5)					
6	425.1	6 (5-6)			8 / 515		HA-29 (5-6') @ 1525

End of Boring @ 6 feet below ground surface.

NOTES: AMSL = Above mean sea level

PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)

FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-GRO & DRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** HA-31
	Project Number:	01005-093-351	
	Boring Location:	In field north of HCC	*Sheet:* 1 of 1
	Survey Coordinates (ft.):	N - 791565.03 E -2316782.34	*Date/Time Started:* 02/15/05 1400
	Drilling Method:	Hand Auger	
Logged By: Matthew Laub	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 02/15/05 1630
Drilling Co.: GRP		*Weather (°F):* 58 degrees, partly cloudy	
Drillers:		*Drilling Equip.:*	

Depth (feet)	Elevation (431.16 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	430.16	1 (0-1)	Hand Auger	NA		**ORGANIC MATTER (OL/OH)**	
						SILTY CLAY (ML/CL) Brown silty clay, medium stiff, dry	
2	429.2	2 (1-2)					
3	428.2	3 (2-3)					
4	427.2	4 (3-4)				**CLAY (CL)** Gray clay, medium stiff, moist	
5	426.2	5 (4-5)					
6	425.2	6 (5-6)			0 / 50		HA-31 (5-6') @ 1625

End of Boring @ 6 feet below ground surface.

NOTES: AMSL = Above mean sea level

PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)

FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-GRO & DRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** HA-32
	Project Number:	01005-093-351	
	Boring Location:	In field west of HCC	
			Sheet: 1 of 1
	Survey Coordinates (ft.):		*Date/Time Started:*
	Drilling Method:	Hand Auger	02/16/05 1105
Logged By: Matthew Laub	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:*
Drilling Co.: GRP		*Weather (°F):* 40 degrees, partly cloudy	02/16/05 1135
Drillers:		*Drilling Equip.:*	

Depth (feet)	Elevation (431.21 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	430.21	1 (0-1)	Hand Auger	NA		**ORGANIC MATTER (OL/OH)**	Silt and water infiltration prevented sample collection.
2	429.2	2 (1-2)				**SILTY CLAY (ML/CL)** Brown silty clay, medium stiff, moist	
3	428.2	3 (2-3)				**SILTY SAND (SM)** Tan silty sand, fine-grained, wet	
4	427.2	4 (3-4)				**CLAY (CL)** Gray clay, medium stiff, moist	
5	426.2	5 (4-5)					
6	425.2	6 (5-6)			NA		

End of Boring @ 6 feet below ground surface.

NOTES: AMSL = Above mean sea level

PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)

FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: none submitted

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** HA-34
	Project Number:	01005-093-351	
	Boring Location:	In field west of HCC	*Sheet:* 1 of 1
	Survey Coordinates (ft.):	N - 791514.84 E -2316558.75	*Date/Time Started:* 02/16/05 0930
	Drilling Method:	Hand Auger	
Logged By: Matthew Laub	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 02/16/05 1000
Drilling Co.: GRP		*Weather (°F):* 40 degrees, partly cloudy	
Drillers:		*Drilling Equip.:*	

Depth (feet)	Elevation (430.67 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	429.67	1 (0-1)	Hand Auger	NA		**ORGANIC MATTER (OL/OH)**	
						SILTY SAND (SM) Brown silty sand, fine-graded, well graded, moist	
2	428.7	2 (1-2)					
3	427.7	3 (2-3)					
4	426.7	4 (3-4)				**CLAY (CL)** Gray clay, medium stiff, moist, petroleum hydrocarbon odors	
5	425.7	5 (4-5)					
6	424.7	6 (5-6)			25 / 850		HA-34 (5-6') @ 0945

End of Boring @ 6 feet below ground surface.

NOTES: AMSL = Above mean sea level

PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)

FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-GRO & DRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** HA-36
	Project Number:	01005-093-351	
	Boring Location:	In field west of HCC	*Sheet:* 1 of 1
	Survey Coordinates (ft.):	N - 791515.03 E -2316660.25	*Date/Time Started:* 02/16/05 0745
	Drilling Method:	Hand Auger	
Logged By: Matthew Laub	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 02/16/05 0840
Drilling Co.: GRP		*Weather (°F):* 40 degrees, partly cloudy	
Drillers:		*Drilling Equip.:*	

Depth (feet)	Elevation (431.21 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
	430.21	1 (0-1)	Hand Auger	NA		**ORGANIC MATTER (OL/OH)**	
1						**SILTY CLAY (ML/CL)** Brown silty clay, medium stiff, moist, petroleum hydrocarbon odors	
2	429.2	2 (1-2)					
3	428.2	3 (2-3)				**CLAY (CL)** Gray clay, medium stiff, moist, petroleum hydrocarbon odors	
4	427.2	4 (3-4)					
5	426.2	5 (4-5)					
6	425.2	6 (5-6)			6 / 576		HA-36 (5-6') @ 0830

End of Boring @ 6 feet below ground surface.

NOTES: AMSL = Above mean sea level

PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)

FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-GRO & DRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** HA-37
	Project Number:	01005-093-351	
	Boring Location:	In field east of HCC	*Sheet:* 1 of 1
	Survey Coordinates (ft.):	N - 791515.02 E -2316798.25	*Date/Time Started:* 02/15/05 1115
	Drilling Method:	Hand Auger	
Logged By: Matthew Laub	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 02/15/05 1220
Drilling Co.: GRP		*Weather (°F):* 58 degrees, partly cloudy	
Drillers:		*Drilling Equip.:*	

Depth (feet)	Elevation (430.75 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	429.75	1 (0-1)	Hand Auger	NA		**ORGANIC MATTER (OL/OH)**	
						SILTY CLAY (ML/CL) Brown silty clay, soft, moist	
2	428.8	2 (1-2)				**SAND (SW)** Brown sand, fine-grained, moist	
3	427.8	3 (2-3)				**CLAY (CL)** Gray clay, medium stiff, moist	
4	426.8	4 (3-4)					
5	425.8	5 (4-5)					
6	424.8	6 (5-6)			0 / 20		HA-37 (5-6') @ 1215

End of Boring @ 6 feet below ground surface.

NOTES: AMSL = Above mean sea level

PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)

FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-GRO & DRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** GP-1
	Project Number:	01005-093-351	
	Boring Location:	E. Elm St.	
			Sheet: 1 of 1
	Survey Coordinates (ft.):	N - 790295.41 E - 2317525.97	*Date/Time Started:* 01/06/05 0845
	Drilling Method:	Geoprobe	
Logged By: Matthew Laub	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/06/05 0945
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather (°F):*	overcast, 30 degrees	
Drillers:	*Drilling Equip.:*		

Depth (feet)	Elevation (429.81 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
	428.81	1 (0-3)	ACETATE LINER	36	13 / 1280	**Asphalt** (6 in.) **Silty CLAY (ML/CL)** Olive-gray silty clay, soft, moist Light brown silty clay, red mottling, less silty **CLAY (CL)**	
1							
2	427.8						
3	426.8						
		2 (3-6)	ACETATE LINER	36	52 / 112	Brown clay, soft, moist, red and gray mottling Dark brown clay, soft.	
4	425.8						
5	424.8						
6	423.8						
		3 (6-9)	ACETATE LINER	36	35 / 1260	Soft light gray clay, red and orange mottling **Silty CLAY (ML/CL)** Gray silty clay, soft, moist, orange mottling, petroleum hydrocarbon odor	GP-1 (9-12') @ 0930
7	422.8						
8	421.8						
9	420.8						
		4 (9-12)	ACETATE LINER	36	481 / 4600	**Silty SAND (SW/SM),** Gray, fine-grained sand, moist Tan fine-grained sand, moist **Silty CLAY (ML/CL),** Tan silty clay, soft, heavy orange mottling, moist **Silty SAND (SW/SM),** Gray fine-grained sand, moist **SILT (ML)**, Gray silt, soft, wet	
10	419.8						
11	418.8						
12	417.8						
		5 (12-15)	ACETATE LINER	36	130 / 750	**CLAY (CL)** Tan clay, soft, moist, orange mottling, petroleum hydrocarbon odors **Silty SAND (SW/SM)**, Gray, fine-grained sand **Silty CLAY (ML/CL),** Gray silty clay, soft, wet, petroleum odors **CLAY (CL),** Gray clay, soft, moist Gray clay, medium-stiff, dry	
13	416.8						
14	415.8						
15	414.8						

End of Boring @ 15 feet below ground surface.

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-GRO & DRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** GP-2
	Project Number:	01005-093-351	
	Boring Location:	N. Olive St.	
			Sheet: 1 of 1
	Survey Coordinates (ft.):	N - 790317.89 E - 2317624.78	*Date/Time Started:* 01/06/05 0945
	Drilling Method:	Geoprobe	
Logged By: Matthew Laub	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/06/05 1035
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather (°F):*	overcast, 30 degrees	
Drillers:	*Drilling Equip.:*		

Depth (feet)	Elevation (430.08 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
	429.08				13	**Asphalt**	
1						Coarse gravel subgrade	
		1 (0-3)	ACETATE LINER	30		**ORGANIC MATTER (OH)**, Topsoil	
2	428.1					**CLAY (CL)**	
						Gray clay, medium-stiff, slight black mottling, moist	
3	427.1				1280	Gray clay, stiff	
4	426.1				24		
		2 (3-6)	ACETATE LINER	24			
5	425.1						
6	424.1				722		
7	423.1				231	Brown clay, stiff	
		3 (6-9)	ACETATE LINER	36		**Silty SAND (SW/SM)**, Brown silty, fine-graned sand, moist	
8	422.1					**CLAY (CL)**	
						Gray clay, soft, moist, orange mottling	
9	421.1				4600	**Silty SAND (SW/SM)**, Tan silty, fine-grained sand, well graded, moist	
10	420.1				475	**Silty CLAY (ML/CL)**, Tan silty clay, soft, moist, petroleum odors	
		4 (9-12)	ACETATE LINER	36		**CLAY (CL)** Olive-gray clay, soft, moist, slight orange mottling, strong petroleum hydrocarbon odors	
11	419.1					Dark gray clay, soft.	
12	418.1				1%	Lt. gray clay, soft.	
13	417.1				550	orange mottling	GP-2 (12-15') @ 1030
		5 (12-15)	ACETATE LINER	18			
14	416.1					Lt. gray clay, soft, wet	
15	415.1				1%	**SAND (SW)**	
						Gray fine-grained sand, wet	

End of Boring @ 15 feet below ground surface.

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-GRO & DRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** GP-3
	Project Number:	01005-093-351	
	Boring Location:	N. Olive St.	
			Sheet: 1 of 1
	Survey Coordinates (FT.):	N -790247.86 E - 2317647.02	*Date/Time Started:* 01/06/05 1040
	Drilling Method:	Geoprobe	
Logged By: Matthew Laub	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/06/05 1140
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather (°F):*	overcast, 30 degrees	
Drillers:	*Drilling Equip.:*		

Depth (feet)	Elevation (429.98 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	428.98	1 (0-3)	ACETATE LINER	36	67 / 840	**Asphalt** Coarse gravel subgrade	
2	428.0					**Fill** Gray clay fill, stiff, interbedded subgrade	
3	427.0					**CLAY (CL)** Lt. gray clay, soft, orange mottling, moist	
4	426.0	2 (3-6)	ACETATE LINER	36	12 / 75	black mottling	
5	425.0					Lt. gray clay, stiff, petroleum hydrocarbon odors	
6	424.0						
7	423.0	3 (6-9)	ACETATE LINER	36	710 / 2100	Gray clay, stiff	
8	422.0					Lt. brown clay, stiff, gray mottling, some orange mottling	
9	421.0					some sand	GP-3 (9-12') @ 1120
10	420.0	4 (9-12)	ACETATE LINER	24	1000 / 11%		
11	419.0					**GRAVEL (GW)**, Tan, well-graded angular gravel, some sand, petro. odors	
						SAND (SW), Gray fine-grained sand, moist, petroleum hydrocarbon odors	
12	418.0					**CLAY (CL)**, Gray clay, soft, moist, petroleum hydrocarbon odors	
						SAND (SW), Gray fine-grained sand, moist, petroleum hydrocarbon odors	
13	417.0	5 (12-15)	ACETATE LINER	29	717 / 8000	**CLAY (CL)** Gray clay, soft, moist, petroleum hydrocarbon odors	
14	416.0					**SILT (ML)** Olive-gray silt, soft, wet, some sand, petroleum sheen and odors	
15	415.0						

End of Boring @ 15 feet below ground surface.

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-GRO & DRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** GP-4
	Project Number:	01005-093-351	
	Boring Location:	N. Olive St.	*Sheet:* 1 of 1
	Survey Coordinates (ft.):	N - 790180.64 E - 2317664.56	*Date/Time Started:* 01/06/05 1220
	Drilling Method:	Geoprobe	
Logged By: Matthew Laub	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/06/05 1300
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather (°F):*	overcast, 30 degrees	
Drillers:	*Drilling Equip.:*		

Depth (feet)	Elevation (429.99 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	428.99	1 (0-3)	ACETATE LINER	36	48 / 1540	**Asphalt** Coarse gravel subgrade **CLAY (CL)** Lt. gray clay, soft, gray mottling, moist	
2	428.0						
3	427.0						
4	426.0	2 (3-6)	ACETATE LINER	36	20 / 515	poorly sorted gravel interbed Gray clay, medium-stiff, black and orange mottling Brown clay, medium-stiff	
5	425.0						
6	424.0						
7	423.0	3 (6-9)	ACETATE LINER	34	415 / 1.5%	**Silty GRAVEL (GM)**, Tan angular gravel with silt, well graded, petro.odors **Silty CLAY (ML/CL)**, Gray silty clay, soft, orange mottling, moist, petro.odors **Silty SAND (SM)** Gray silty, fine-grained sand, moist, petroleum hydrocarbon odors **Silty CLAY (ML/CL)** Gray silty clay, soft, moist	
8	422.0						
9	421.0						
10	420.0	4 (9-12)	ACETATE LINER	32	790 / 7.4%		
11	419.0						
12	418.0					**Silty SAND (SM)** Gray silty, fine-grained sand, moist	
13	417.0	5 (12-15)	ACETATE LINER	34	717 / 8000	**CLAY (CL)** Gray clay, soft, moist, petroleum hydrocarbon odors **SILT (ML)** Gray silt, soft, moist, some sand, petroleum hydrocarbon odors **SAND (SW)**, Gray fine-grained sand, moist	GP-4 (12-15') @ 1255
14	416.0						
15	415.0						

End of Boring @ 15 feet below ground surface.

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:
SOIL: BTEX/MTBE/TPH-GRO & DRO
GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** GP-5
	Project Number:	01005-093-351	
	Boring Location:	N. Olive St.	
			Sheet: 1 of 1
	Survey Coordinates (ft.):	N - 790034.53 E - 2317706.33	*Date/Time Started:* 01/06/05 1305
	Drilling Method:	Geoprobe	
Logged By: John Petruccione	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/06/05 1355
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather (°F):*	cold, 20's windy	
Drillers:	*Drilling Equip.:*		

Depth (feet)	Elevation (429.45 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
	428.45					Organic Material	
1		1 (2-3)	ACETATE LINER	34		**Fill** - Tan angular gravel .	
2	427.5					**CLAY (CL)** Drk. Gray clay, damp, some black organics, trace silt few rust/oxidized spots	
3	426.5				15 / 1111		
4	425.5	2 (4-5)	ACETATE LINER	17		15-32 inches-Dk gray clay, minor to no organics. Trace silt.	
5	424.5				15 / 924		
6	423.5						
7	422.5	3 (7-9)	ACETATE LINER	24		**Silty SAND (SP)** Olive gray, fine grained sand and silt.	GP-5 (7-9') @ 1353
8	421.5				>TVA / >TVA	**SILT (ML)** Olive gray silt, fining downward. Moist.	
9	420.5						
10	419.5	4 (11-12)	ACETATE LINER	13			
11	418.5					**Silty SAND (SP)** Olive gray silt and fine sand (damp)	
12	417.5				>TVA / >TVA		
13	416.5	5 (14-15)	ACETATE LINER	13		Visible petroleum sheen seen on surface of sample.	
14	415.5						
15	414.5				>TVA / >TVA		

End of Boring @ 15 feet below ground surface.

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)
>TVA - Exceeded TVA meter range.

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-GRO & DRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** GP-6
	Project Number:	01005-093-351	
	Boring Location:	N. Olive St. south of Forest St.	
			Sheet: 1 of 1
	Survey Coordinates (ft.):	N - 789880.10 E - 2317732.95	*Date/Time Started:* 01/06/05 1410
	Drilling Method:	Geoprobe	
Logged By: John Petruccione	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/06/05 1505
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather (°F):*	cold, 20's windy	
Drillers:	*Drilling Equip.:*		

Depth (feet)	Elevation (429.62 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
	428.62	1 (0-3)	ACETATE LINER	34	18 / 528	0-6 in. tan angular gravel (road subgrade) dry **FILL** - Black organics, silt dry **CLAY (CL)** Dk gray clay, dry. Trace/some silt.	
1							
2	427.6						
3	426.6						
4	425.6	2 (3-6)	ACETATE LINER	28	35 / 2209	**CLAY (CL)** Dk gray to gray, dry clay, minor organics, black and rust, some silt. Oxide spots.	
5	424.6						
6	423.6						
7	422.6	3 (6-9)	ACETATE LINER	24	40 / 947	**SILT (ML)** - Olive gray silt, dry with minor lenses of fine sand	
8	421.6						
9	420.6						
10	419.6	4 (9-12)	ACETATE LINER	27	>TVA / >TVA	**SILT (ML)** Olive gray to light gray silt and some very fine sand, dry, silty at bottom and moist.	GP-6 (11-12') @ 1505
11	418.6						
12	417.6						
13	416.6	5 (12-15)	ACETATE LINER	23	>TVA / >TVA	**SILT (ML)** Olive gray silt, wet at 13.5 ft., petroleum hydrocarbon present in sample	
14	415.6						
15	414.6						

End of Boring @ 15 feet below ground surface.

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)
>TVA - Exceeded TVA meter range.

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-GRO & DRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** GP-7
	Project Number:	01005-093-351	
	Boring Location:	E. Forest St.	
			Sheet: 1 of 1
	Survey Coordinates (ft.):	N - 789974.59 E - 2317670.21	*Date/Time Started:* 01/07/05 0845
	Drilling Method:	Geoprobe	
Logged By: Matthew Laub	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/07/05 0925
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather (ºF):*	35 degrees, cloudy, windy	
Drillers:	*Drilling Equip.:*		

Depth (feet)	Elevation (429.69 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	428.69	1 (0-3)	ACETATE LINER	32	85 / 2680	**Asphalt** (6 in.) and coarse gravel subgrade **CLAY (CL)** Dark gray clay, soft, petroleum hydrocarbon odors, dry Dark gray clay, medium.	GP-7 (0-3') @ 1000
2	427.7						
3	426.7						
4	425.7	2 (3-6)	ACETATE LINER	36	25 / 708	moist, orange mottles small gravel interbed seam. **Silty CLAY (ML/CL)** Dark gray silty clay, soft, moist	
5	424.7						
6	423.7						
7	422.7	3 (6-9)	ACETATE LINER	34	58 / 980	**SILT (ML)** Gray silt, soft, moist, black mottling, petroleum hydrocarbon odors	
8	421.7						
9	420.7						
10	419.7	4 (9-12)	ACETATE LINER	34	110 / 700	**CLAY (CL)**, Gray clay, stiff, moist Lt. gray clay, soft. **SAND (SW)**, Gray, fine-grained sand, moist **CLAY (CL)**, Gray clay, soft, moist **Silty CLAY (ML/CL)**, Gray silty clay, soft, moist **CLAY (CL)**, Gray clay, stiff, moist	
11	418.7						
12	417.7						

End of Boring @ 12 feet below ground surface.

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-GRO & DRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** GP-8
	Project Number:	01005-093-351	
	Boring Location:	E. Forest St.	
			Sheet: 1 of 1
	Survey Coordinates (ft.):	N - 789977.03 E - 2317471.15	*Date/Time Started:* 01/07/05 0930
	Drilling Method:	Geoprobe	
Logged By: Matthew Laub	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/07/05 1000
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather (ºF):*	35 degrees, cloudy, windy	
Drillers:	*Drilling Equip.:*		

Depth (feet)	Elevation (429.02 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	428.02	1 (0-3)	ACETATE LINER	36	2.8	**Asphalt** (6 in.) and coarse gravel subgrade	
						SILT (ML) Lt. brown silt with some sand, soft, moist	
2	427.0						
3	426.0				8.1	**Silty SAND (SM)** Brown, fine-grained silty sand, moist	
4	425.0	2 (3-6)	ACETATE LINER	26	1.0	**SAND (SW)**, Lt. brown, fine-grained sand, moist	
						Silty CLAY (ML/CL) Brown silty clay, soft, wet	
5	424.0					**Silty SAND (SM)** Brown silty sand, fine-grained, wet, orange mottling.	
6	423.0				4.8		
7	422.0	3 (6-9)	ACETATE LINER	31	1.5		
8	421.0					**Sandy SILT (ML)** Lt. Brown sandy silt, soft, wet.	
9	420.0				6.0	**CLAY (CL)** Gray clay, soft, wet	
10	419.0	4 (9-12)	ACETATE LINER	16	1.0	orange and black mottling	GP-8 (9-12') @ 1000
11	418.0						
12	417.0				25		

End of Boring @ 12 feet below ground surface.

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-GRO & DRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** GP-9
	Project Number:	01005-093-351	
	Boring Location:		*Sheet:* 1 of 1
	Survey Coordinates (ft.):	N - 789976.75 E - 2317368.51	*Date/Time Started:* 01/07/05 1015
	Drilling Method:	Geoprobe	
Logged By: Brandon Gorte	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/07/05 1033
Drilling Co.: MRK Environmental Exploration, Inc.		*Weather (°F):*	
Drillers:		*Drilling Equip.:*	

Depth (feet)	Elevation (428.81 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	427.8	1 (0-3)	ACETATE LINER	34	2.17	**Asphalt** (8 in.)	GP-9 (1-3) @ 1030
						Fill. Dark gray clayey silt - Fill, moist, med, petroleum odor.	
2	426.8						
3	425.8				5.98	**Clayey SILT (CL/ML)** Lt. brown clayey silt, moist, med.	
4	424.8	2 (3-6)	ACETATE LINER	31	0.94	Moist, soft.	
5	423.8						
6	422.8				3.65	Moist to wet. Perched water	
7	421.8	3 (6-9)	ACETATE LINER	31	0.49	Occasional black organics.	
8	420.8						
9	419.8				3.15	**CLAY (CL)** Lt. brown/yellow-orange mottled clay, stiff, with some orange-rust, some petroleum hydrocarbon odor.	
10	418.8	4 (9-12)	ACETATE LINER	34	1.09		
11	417.8						
12	416.8				3.76		

End of Boring at 12 ft. below ground surface.

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-GRO & DRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** GP-10
	Project Number:	01005-093-351	
	Boring Location:		*Sheet:* 1 of 1
	Survey Coordinates (ft.):	N - 789977.24 E - 2317271.27	*Date/Time Started:* 01/07/05 1048
	Drilling Method:	Geoprobe	
Logged By: Brandon Gorte	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/07/05 1110
Drilling Co.: MRK Environmental Exploration, Inc.		*Weather (°F):*	
Drillers:		*Drilling Equip.:*	

Depth (feet)	Elevation (429.65 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	428.7	1 (0-3)	ACETATE LINER	33	2.27	**Asphalt** (8 in.)	GP-10 (1-3) @ 1054
2	427.7					**Fill.** Dark gray clayey silt - Fill, dry/moist, medium.	
3	426.7				5.72	**Clayey SILT (CL/ML)** Lt. brown clayey silt, moist, med.	
4	425.7	2 (3-6)	ACETATE LINER	33	0.63	**Silty SAND (SM)** Lt. brown/yellow-orange, silty sand, v.fine grain, well sorted, moist, dense.	
5	424.7				3.39 / 0.29		
6	423.7				2.54	**CLAY (CL)** Lt. brown clay, yellow-orange mottling, moist, stiff, occasional orange rust spots.	
7	422.7	3 (6-9)	ACETATE LINER	32	0.09		
8	421.7						
9	420.7				2.07		
10	419.7	4 (9-12)	ACETATE LINER	33	0.03	Occasional black organics to 12 ft.	
11	418.7						
12	417.7				2.18	**Clayey SILT (CL/ML)** Lt. brown/yellow-orange laminated clayey silt, moist, medium.	

End of boring at 12 ft. below ground surface.

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-GRO & DRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** GP-11
	Project Number:	01005-093-351	
	Boring Location:		*Sheet:* 1 of 1
	Survey Coordinates (ft.):	N - 789977.86 E - 2317170.26	*Date/Time Started:* 01/07/05 1015
	Drilling Method:	Geoprobe	
Logged By: Brandon Gorte	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/07/05 1033
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather (°F):*		
Drillers:	*Drilling Equip.:*		

Depth (feet)	Elevation (430.41 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	429.4	1 (0-3)	ACETATE LINER	34	1.5 / 7.05	**Asphalt (8 in.)** **Fill.** Dark gray clayey silt - Fill, moist/dry, medium, some organics.	
2	428.4						
3	427.4						
4	426.4	2 (3-6)	ACETATE LINER	34	0.28 / 3.15	**Sandy SILT (ML)** Lt. brown sandy silt, moist, medium, some orange oxidation, wet near 5.5 ft.	
5	425.4						
6	424.4					**CLAY (CL)** Lt. brown clay, moist, stiff, some orange oxidation.	
7	423.4	3 (6-9)	ACETATE LINER	21	0.04 / 2.46		
8	422.4						
9	421.4					Some black organics.	
10	420.4	4 (9-12)	ACETATE LINER	34	21.40 / 29.7		GP-11 (9-12) @ 1127
11	419.4					Color changes to dark olive gray. Some petroleum hydrocarbon odor.	
12	418.4						

End of Boring at 12 ft. below ground surface.

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-GRO & DRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** GP-12
	Project Number:	01005-093-351	
	Boring Location:		*Sheet:* 1 of 1
	Survey Coordinates:	N - 789978.95 E - 2317069.05	*Date/Time Started:* 01/07/05 1245
	Drilling Method:	Geoprobe	
Logged By: Brandon Gorte	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/07/05 1305
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather:*		
Drillers:	*Drilling Equip.:*		

Depth (feet)	Elevation (430.94 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID reading (units*) / FID reading (units+)	Lithologic Description	REMARKS / Lab Sample ID
1	429.94	1 (0-3)	ACETATE LINER	34	14.25 / 101	**Asphalt (8 in.)** **Fill.** Dark gray clayey silt - Fill, dry/moist, soft/medium. **Sandy SILT (ML)** Lt. brown sandy silt, moist, soft, occasional organics/roots, occasional orange rust.	
2	428.9						
3	427.9						
4	426.9	2 (3-6)	ACETATE LINER	30	45 / 241	**Silty SAND (SM)** Lt. brown v.fine sand, well sorting, moist, med dense. **CLAY (CL)** Olive gray clay, wet, stiff, petroleum odor/staining. Orange rust, mottled, v.stiff.	
5	425.9						
6	424.9						
7	423.9	3 (6-9)	ACETATE LINER	26	78 / 292		GP-12 (6-9) @ 1255
8	422.9						
9	421.9						
10	420.9	4 (9-12)	ACETATE LINER	34	66.29 / 127	Changes to olive-gray/Lt brown clay, yelow-orange mottled, v. stiff. **Sandy SILT (ML)** - Lt. brown/yellow-orange, medium.	
11	419.9						
12	418.9						

End of Boring @ 12 feet below ground surface.

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-GRO & DRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** GP-13
	Project Number:	01005-093-351	
	Boring Location:		*Sheet:* 1 of 1
	Survey Coordinates:	N - 789348.77 E - 2317047.22	*Date/Time Started:* 01/07/05 1324
	Drilling Method:	Geoprobe	
Logged By: Brandon Gorte	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/07/05 1351
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather:*		
Drillers:	*Drilling Equip.:*		

Depth (feet)	Elevation (431.06 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID reading (units*) / FID reading (units+)	Lithologic Description	REMARKS / Lab Sample ID
1	430.06	1 (0-3)	ACETATE LINER	34	0.29 / 3.16	**Asphalt (8 in.)** **Clayey SILT (CL/ML) - Fill.** Lt. brown clayey silt - Fill, dry/moist, medium. Occasional organics/root-stems	
2	429.1						
3	428.1						
4	427.1	2 (3-6)	ACETATE LINER	29	0.11 / 3.19	**Silty SAND (SM)** Lt. brown v.fine sand, well sorted, moist, med dense. **CLAY (CL)** Lt. brown/yellow-orange clay, some silt, moist, stiff, orange oxidation, mottled.	
5	426.1						
6	425.1						
7	424.1	3 (6-9)	ACETATE LINER	30	0.00 / 2.63	Less silt, stiffer clay. **Silty CLAY (CL)** Lt. brown silty clay, medium, occasional orange oxidation.	GP-13 (9-12) @ 1350
8	423.1						
9	422.1						
10	421.1	4 (9-12)	ACETATE LINER	33	0.35 / 4.34	**SAND (SP)** Lt. brown v.fine sand, well sorted, moist, med dense, yellow-orange laminations, natural fracture voids in last 1 ft section.	
11	420.1						
12	419.1						

End of Boring @ 12 feet below ground surface.

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-GRO & DRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** GP-14
	Project Number:	01005-093-351	
	Boring Location:	N. Market St.	
			Sheet: 1 of 1
	Survey Coordinates (ft.):	N - 789414.54 E - 2317000.81	*Date/Time Started:* 01/10/05 1125
	Drilling Method:	Geoprobe	
Logged By: Matthew Laub	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/10/05 1150
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather (ºF):*	40 degrees, overcast	
Drillers:	*Drilling Equip.:*		

Depth (feet)	Elevation (431.15 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	430.15	1 (0-3)	ACETATE LINER	32	0.5 / 3.1	**ORGANIC SOIL (OL/OH)** **SILT (ML)** Dark brown silt, soft, dry, some interbedded angular gravel moist	GP-14 (3-6') @ 1145
2	429.2						
3	428.2						
4	427.2	2 (3-6)	ACETATE LINER	34	0.6 / 3	**Silty SAND (SM)** Tan, fine-grained silty sand, wet.	
5	426.2						
6	425.2						
7	424.2	3 (6-9)	ACETATE LINER	30	0 / 0.7	**CLAY (CL)** Tan, clay, medium-stiff, moist, orange mottling	
8	423.2						
9	422.2						
10	421.2	4 (9-12)	ACETATE LINER	30	0 / 1.7		
11	420.2						
12	419.2					**SAND (SW), Tan, fine-grained** sand, moist, orange mottles	

End of Boring @ 12 feet below ground surface.

NOTES: AMSL = Above mean sea level

PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)

FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-GRO & DRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** GP-15
	Project Number:	01005-093-351	
	Boring Location:	N. Market St.	
			Sheet: 1 of 1
	Survey Coordinates (ft.):	N - 789514.42 E - 2317004.05	*Date/Time Started:* 01/10/05 1240
	Drilling Method:	Geoprobe	
Logged By: Matthew Laub	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/10/05 1305
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather (ºF):*	40 degrees, overcast	
Drillers:	*Drilling Equip.:*		

Depth (feet)	Elevation (430.88 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	429.88	1 (0-3)	ACETATE LINER	36	0.1	**ORGANIC SOIL (OL/OH)**	GP-15 (3-6') @ 1300
						SILT (ML) Brown silt, soft, moist	
2	428.9						
3	427.9				1.2	**CLAY (CL), Tan clay, medium-stiff,** moist	
4	426.9	2 (3-6)	ACETATE LINER	27	0.2	**SAND (SW)** Brown, fine-grained sand, moist	
5	425.9						
6	424.9				4.6	wet	
7	423.9	3 (6-9)	ACETATE LINER	28	0		
8	422.9						
9	421.9				0.5	**Silty CLAY (ML/CL)**	
10	420.9	4 (9-12)	ACETATE LINER	21	0	Brown silty clay, soft, moist	
11	419.9					Brown silty clay, medium-stiff	
12	418.9				2.5	Gray silty clay, medium-stiff.	

End of Boring @ 12 feet below ground surface.

NOTES: AMSL = Above mean sea level

PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)

FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-GRO & DRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** GP-16
	Project Number:	01005-093-351	
	Boring Location:	N. Market St.	
			Sheet: 1 of 1
	Survey Coordinates (ft.):	N - 789615.82 E - 2317005.92	*Date/Time Started:* 01/10/05 1305
	Drilling Method:	Geoprobe	
Logged By: Matthew Laub	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/10/05 1335
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather (ºF):*	40 degrees, overcast	
Drillers:	*Drilling Equip.:*		

Depth (feet)	Elevation (432.06 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	431.06	1 (0-3)	ACETATE LINER	36	0	**ORGANIC SOIL (OL/OH),** topsoil with some coarse gravel fill	
						CLAY (CL), Brown clay, stiff, moist	
2	430.1					**Silty SAND (SM)** Brown, fine-grained silty sand, well graded, moist	
3	429.1				0	**SAND (SW)** Tan, fine-grained sand, moist	
4	428.1	2 (3-6)	ACETATE LINER	31	0.1		
5	427.1						
6	426.1				3		
7	425.1	3 (6-9)	ACETATE LINER		0.5	wet	
8	424.1			29			
9	423.1				2	**CLAY (CL)**	
10	422.1	4 (9-12)	ACETATE LINER		0.5	Tan clay, soft, wet	GP-16 (9-12') @ 1325
11	421.1			27		moist	
12	420.1				3		

End of Boring @ 12 feet below ground surface.

NOTES: AMSL = Above mean sea level

PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)

FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-GRO & DRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** GP-17
	Project Number:	01005-093-351	
	Boring Location:	N. Market St.	
			Sheet: 1 of 1
	Survey Coordinates (ft.):	N - 789716.33 E - 2317009.95	*Date/Time Started:* 01/10/05 1335
	Drilling Method:	Geoprobe	
Logged By: Matthew Laub	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/10/05 1410
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather (ºF):*	40 degrees, overcast	
Drillers:	*Drilling Equip.:*		

Depth (feet)	Elevation (430.74 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	429.74	1 (0-3)	ACETATE LINER	36	2 / 340	**ORGANIC SOIL (OL/OH),** topsoil with some coarse gravel fill **SILT (ML)** Brown silt, soft, dry **Silty SAND (SM)** Tan, fine-grained silty sand, well graded, moist	GP-17 (3-6') @ 1405
2	428.7						
3	427.7						
4	426.7	2 (3-6)	ACETATE LINER	31	7.7 / 345	**SAND (SW)** Tan fine-grained sand, moist wet	
5	425.7						
6	424.7						
7	423.7	3 (6-9)	ACETATE LINER	26	3 / 75	**CLAY (CL)** Tan clay with sand, soft, wet Tan clay, stiff, moist	
8	422.7						
9	421.7						
10	420.7	4 (9-12)	ACETATE LINER	26	1.8 / 19	Gray clay, stiff, moist	
11	419.7						
12	418.7						

End of Boring @ 12 feet below ground surface.

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-GRO & DRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** GP-18
	Project Number:	01005-093-351	
	Boring Location:	N. Market St.	
			Sheet: 1 of 1
	Survey Coordinates (ft.):	N - 789779.71 E - 2317010.53	*Date/Time Started:* 01/10/05 1415
	Drilling Method:	Geoprobe	
Logged By: Matthew Laub	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/10/05 1445
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather (ºF):*	40 degrees, overcast	
Drillers:	*Drilling Equip.:*		

Depth (feet)	Elevation (430.47 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	429.47	1 (0-3)	ACETATE LINER	36	0.5 / 3	**ORGANIC SOIL (OL/OH),** topsoil with some coarse gravel fill **CLAY (CL)** Brown clay, very stiff, dry	GP-18 (3-6') @ 1440
2	428.5						
3	427.5					**SILT (ML),** Brown silt, soft, dry	
4	426.5	2 (3-6)	ACETATE LINER	31	0.5 / 3	**Silty SAND (SM)** Tan silty fine-grained sand, well graded, dry moist	
5	425.5						
6	424.5						
7	423.5	3 (6-9)	ACETATE LINER	18	0.3 / 4	**CLAY (CL)** Tan clay with sand, soft, moist orange mottling	
8	422.5						
9	421.5						
10	420.5	4 (9-12)	ACETATE LINER	26	0 / 3.5	Gray clay, stiff, moist black mottling	
11	419.5						
12	418.5						

End of Boring @ 12 feet below ground surface.

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-GRO & DRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** GP-19
	Project Number:	01005-093-351	
	Boring Location:	N. Market St.	
			Sheet: 1 of 1
	Survey Coordinates (ft.):	N - 789877.67 E - 2317013.44	*Date/Time Started:* 01/10/05 1445
	Drilling Method:	Geoprobe	
Logged By: Matthew Laub	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/10/05 1515
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather (ºF):*	40 degrees, overcast	
Drillers:	*Drilling Equip.:*		

Depth (feet)	Elevation (430.82 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	429.82	1 (0-3)	ACETATE LINER	36	4	**ORGANIC SOIL (OL/OH),** topsoil with some coarse gravel fill	
2	428.8					**Silty CLAY (ML/CL)** Brown silty clay, stiff, dry	
3	427.8				5	**Silty SAND (SM)** Brown silty, fine-grained sand, moist	
4	426.8	2 (3-6)	ACETATE LINER	22	1.2		
5	425.8						
6	424.8				5.5	wet	
7	423.8	3 (6-9)	ACETATE LINER	26	1.2	**CLAY (CL)** Brown clay, soft, wet	
8	422.8					Gray clay, stiff, moist	
9	421.8				8.4	Dark gray mottling	
10	420.8	4 (9-12)	ACETATE LINER	22	2	heavy black mottling	GP-19 (9-12') @ 1510
11	419.8						
12	418.8				13.7	Gray clay, some sand, soft, petroleum odors	

End of Boring @ 12 feet below ground surface.

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-GRO & DRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** GP-20
	Project Number:	01005-093-351	
	Boring Location:	N. Market St.	
			Sheet: 1 of 1
	Survey Coordinates (ft.):	N - 789977.71 E - 2317015.74	*Date/Time Started:* 01/10/05 1520
	Drilling Method:	Geoprobe	
Logged By: Matthew Laub	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/10/05 1550
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather (ºF):*	40 degrees, overcast	
Drillers:	*Drilling Equip.:*		

Depth (feet)	Elevation (431.24 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	430.24	1 (0-3)	ACETATE LINER	36	0 / 3.4	**ORGANIC SOIL (OL/OH),** topsoil with some coarse gravel fill **SILT (ML)** Brown silt, soft, dry	GP-20 (0-3') @ 1540
2	429.2						
3	428.2					**Silty SAND (SM)** Brown silty, fine-grained sand, moist	
4	427.2	2 (3-6)	ACETATE LINER	19	0 / 1.2	wet	
5	426.2						
6	425.2						
7	424.2	3 (6-9)	ACETATE LINER	27	0 / 3.1		
8	423.2						
9	422.2					**CLAY (CL),** Gray clay, stiff, moist	
10	421.2	4 (9-12)	ACETATE LINER	0		**No Recovery**	
11	420.2						
12	419.2						

End of Boring @ 12 feet below ground surface.

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-GRO & DRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** GP-21
	Project Number:	01005-093-351	
	Boring Location:	N. Market St.	
			Sheet: 1 of 1
	Survey Coordinates (Ft.):	N - 790052.88 E - 2317016.91	*Date/Time Started:* 01/10/05 1555
	Drilling Method:	Geoprobe	
Logged By: Matthew Laub	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/10/05 1625
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather (ºF):*	40 degrees, overcast	
Drillers:	*Drilling Equip.:*		

Depth (feet)	Elevation (431.02 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	430.02	1 (0-3)	ACETATE LINER	34	0.5 / 20	**ORGANIC SOIL (OL/OH),** topsoil with some coarse gravel fill **SILT (ML)** Brown silt, soft, dry	GP-21 (9-12') @ 1620
2	429.0						
3	428.0						
4	427.0	2 (3-6)	ACETATE LINER	32	1.2 / 30	**Silty SAND (SM)** Tan silty fine-grained sand, moist **SAND (SW)** Tan, fine-grained sand, moist **CLAY (CL)** Tan clay, soft, moist Gray clay, soft, black mottles, moist petroleum odor	
5	426.0						
6	425.0						
7	424.0	3 (6-9)	ACETATE LINER	22	14 / 56		
8	423.0						
9	422.0						
10	421.0	4 (9-12)	ACETATE LINER	28	35 / 108	orange mottling	
11	420.0						
12	419.0						

End of Boring @ 12 feet below ground surface.

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-GRO & DRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** GP-22
	Project Number:	01005-093-351	
	Boring Location:	N. Market St.	
			Sheet: 1 of 1
	Survey Coordinates (ft.):	N - 790118.95 E - 2317018.37	*Date/Time Started:* 01/11/05 0810
	Drilling Method:	Geoprobe	
Logged By: Matthew Laub	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/11/05 0830
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather (ºF):*	50 degrees, light drizzle	
Drillers:	*Drilling Equip.:*		

Depth (feet)	Elevation (430.95 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	429.95	1 (0-3)	ACETATE LINER	36	1.5	**ORGANIC SOIL (OL/OH),** topsoil with some coarse gravel fill	
						SILT (ML) Brown silt, soft, dry	
2	429.0						
3	428.0				5	**Silty CLAY (ML/CL)** Tan silty clay, medium-stiff, moist	
4	427.0	2 (3-6)	ACETATE LINER	31	4.2	**Silty SAND (SM)** Tan silty, fine-grained sand, moist	
5	426.0						
6	425.0				44	Gray silty, fine-grained sand, moist	
7	424.0	3 (6-9)	ACETATE LINER	26	4	**CLAY (CL)** Gray clay, soft, moist	
8	423.0					black mottles	
9	422.0				34		
10	421.0	4 (9-12)	ACETATE LINER	24	12	Gray clay, medium-stiff, moist	GP-22 (9-12') @ 0825
11	420.0						
12	419.0				50	slight orange mottling	

End of Boring @ 12 feet below ground surface.

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-GRO & DRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** GP-23
	Project Number:	01005-093-351	
	Boring Location:	N. Market St.	
			Sheet: 1 of 1
	Survey Coordinates (ft.):	N - 790236.97 E - 2317019.43	*Date/Time Started:* 01/11/05 0835
	Drilling Method:	Geoprobe	
Logged By: Matthew Laub	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/11/05 0955
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather (ºF):*	50 degrees, light drizzle	
Drillers:	*Drilling Equip.:*		

Depth (feet)	Elevation (431.23 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	430.23	1 (0-3)	ACETATE LINER	36	40 / 584	**ORGANIC SOIL (OL/OH),** topsoil with some coarse gravel fill **SILT (ML)** Brown silt, soft, dry	GP-23 (3-6') @ 0950
2	429.2						
3	428.2						
4	427.2	2 (3-6)	ACETATE LINER	24	36 / 830	**SAND (SW)** Tan, fine-grained sand, moist petroleum hydrocarbon odors	
5	426.2						
6	425.2						
7	424.2	3 (6-9)	ACETATE LINER	28	75 / 510		
8	423.2						
9	422.2						
10	421.2	4 (9-12)	ACETATE LINER	20	46 / 375	**CLAY (CL)** Gray clay, medium-stiff, moist dry slight orange and black mottling	
11	420.2						
12	419.2						

End of Boring @ 12 feet below ground surface.

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-GRO & DRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** GP-24
	Project Number:	01005-093-351	
	Boring Location:	N. Market St.	
			Sheet: 1 of 1
	Survey Coordinates (ft.):	N - 790334.67 E - 2317023.68	*Date/Time Started:* 01/11/05 0900
	Drilling Method:	Geoprobe	
Logged By: Matthew Laub	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/11/05 0920
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather (ºF):*	50 degrees, light drizzle	
Drillers:	*Drilling Equip.:*		

Depth (feet)	Elevation (430.64 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	429.64	1 (0-3)	ACETATE LINER	36	560 / 6870	**ORGANIC SOIL (OL/OH)** Topsoil, some fill material-coarse gravel and brick	GP-24 (0-3') @ 0915
2	428.6					**Silty SAND (SM)** Brown silty sand, soft, dry	
3	427.6					Tan silty sand, soft, dry	
4	426.6	2 (3-6)	ACETATE LINER	31	429 / 5440	petroleum hydrocarbon odors	
5	425.6						
6	424.6					moist	
7	423.6	3 (6-9)	ACETATE LINER	29	16 / 159		
8	422.6					Gray silty sand, soft, moist	
9	421.6					**Silty CLAY (ML/CL)** Gray silty clay, soft, moist	
10	420.6	4 (9-12)	ACETATE LINER	28	17 / 136		
11	419.6					**CLAY (CL)** Gray clay, medium-stiff, moist, slight black mottling, petroleum hydrocarbon odors	
12	418.6						

End of Boring @ 12 feet below ground surface.

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-GRO & DRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** GP-25
	Project Number:	01005-093-351	
	Boring Location:		*Sheet:* 1 of 1
	Survey Coordinates (ft.):	N - 789356.05 E - 2316878.27	*Date/Time Started:* 01/11/05 0930
	Drilling Method:	Geoprobe	
Logged By: Matt Laub	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/11/05 1000
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather (°F):*	50 degrees, light drizzle	
Drillers:	*Drilling Equip.:*		

Depth (feet)	Elevation (431.19 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID reading (units*) / FID reading (units+)	Lithologic Description	REMARKS / Lab Sample ID
1	430.19	1 (0-3)	ACETATE LINER	36	0.5	**Asphalt and subbase (8 in.)**	GP-25 (3-6) @ 950
2	429.2					**SAND (SW).** Brown sand, some silt, dry.	
3	428.2				2	Color change to tan.	
4	427.2	2 (3-6)	ACETATE LINER	31	1.0	**Silty CLAY (ML/CL)** Brown silty clay, medium stiff, wet.	
5	426.2						
6	425.2				4.6	**CLAY (CL)** Gray clay, stiff, black mottling, wet.	
7	424.2	3 (6-9)	ACETATE LINER	27	1.0		
8	423.2					Becoming dry	
9	422.2				4.4	**SAND (SW)**	
10	421.2	4 (9-12)	ACETATE LINER	28	0.5	Tan sand, orange mottling, moist.	
11	420.2						
12	419.2				2.4		

End of Boring @ 12 feet below ground surface.

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-GRO & DRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** GP-26
	Project Number:	01005-093-351	
	Boring Location:	E. Forest St.	
			Sheet: 1 of 1
	Survey Coordinates (ft.):	N - 789975.02 E - 2317570.35	*Date/Time Started:* 01/11/05 1030
	Drilling Method:	Geoprobe	
Logged By: Matthew Laub	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/11/05 1100
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather (ºF):*	50 degrees, light drizzle	
Drillers:	*Drilling Equip.:*		

Depth (feet)	Elevation (429.70 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
	428.7				45	**Asphalt**	
1		1 (0-3)	ACETATE LINER	36		**Silty SAND (SM)** Gray silty, fine-grained, sand, dry	
2	427.7						
3	426.7				2800	**CLAY (CL)** Gray clay, medium-stiff, moist, petroleum hydrocarbon odors orange mottling	
4	425.7	2 (3-6)	ACETATE LINER	30	28		
5	424.7						
6	423.7				930	Olive clay, medium-stiff, moist	
7	422.7	3 (6-9)	ACETATE LINER	32	74	**SAND (SW)** Gray fine-grained sand, orange mottling, slight petroleum hydrocarbon odors	
8	421.7					**CLAY (CL),** Gray clay, medium-stiff, orange mottling, slight petroleum odors	
9	420.7				1800	**SAND (SW)** Gray fine-grained sand, orange mottling, slight petroleum odors, moist	
10	419.7	4 (9-12)	ACETATE LINER	24	104		GP-26 (9-12') @ 1050
11	418.7						
12	417.7				1700	strong petroleum hydrocarbon odors very moist	

End of Boring @ 12 feet below ground surface.

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-GRO & DRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-27D
	Project Number:	01005-093-351	
	Boring Location:	West end of W. Birch Street	*Sheet:* 1 of 2
	Survey Coordinates (ft.):	N - 791221.31 E - 2316505.17	*Date/Time Started:* 01/12/05 1130
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: Adam Lock	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/12/05 1630
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Overcast/periods of rain, low 40s	
Drillers: J. Baker and S. Howe	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (429.28 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
					13.1	**Asphalt and coarse subgrade (3")**	
1	428.3	1 (0-2.5)	HAND AUGER			**Silty CLAY (CL)**	
2	427.3					Tan silty clay, low plasticity, dry, soft.	
					1380		
3	426.3	2 (2.5-5)			46.3		
4	425.3					Color change to black; Dry/moist.	
5	424.3				3175	Color change to gray.	
6	423.3	3 (5-7.5)			17.4		
7	422.3					Some orange mottles.	
					2103		
8	421.3	4 (7.5-10)			13.4		
9	420.3						
10	419.3				1380		
11	418.3	5 (10-12.5)	SPLIT SPOON		7.3		
12	417.3						
					790		
13	416.3	6 (12.5-15)		28	27.4		
14	415.3						
15	414.3				6106	4 in.thick **Clayey SILT (ML)**, gray with orange mottle, low plasticity, med stiff, moist.	
16	413.3	7 (15-17.5)	SPLIT SPOON		107	Color change to gray, low plast, stiff, orange mottle, moist.	
17	412.3						
					5807		
18	411.3	8 (17.5-20)		50	42.7		
19	410.3					3 in. thick gray **clayey SILT(ML)**. Wet.	
20	409.3				4211	6 in. thick gray **clayey SILT (ML)**. Wet.	

Continued on Page 2

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:
SOIL: BTEX/MTBE/TPH-GRO & DRO
GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-27D
	Project Number:	01005-093-351	
	Boring Location:	West end of W. Birch Street	
			Sheet: 2 of 2
	Survey Coordinates (ft.):	N - 791221.31 E - 2316505.17	*Date/Time Started:* 01/12/05 1130
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: Adam Lock	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/12/05 1630
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Overcast/periods of rain, low 40s	
Drillers: J. Baker and S. Howe	*Drilling Equip.:*	CME 45	

Depth (feet)	Survey Elevation (429.28 ft. AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
21	408.3	9 (20-22.5)	SPLIT SPOON	60	106 / 3814	**CLAY (CL)** Tan, gray clay, mottles, very stiff, moist.	
22	407.3						
23	406.3	10 (22.5-25)			245 / 1.30%	Color change to gray with few orange mottles	
24	405.3						
25	404.3						
26	403.3	11 (25-27.5)	SPLIT SPOON	50	67.3 / 5614		VMP-27D (25-27.5) @ 1450 **VMP-27D** DEEP VAPOR PROBE
27	402.3						
28	401.3	12 (27.5-30)			11.4	**Clayey SILT (ML/CL)** Gray clayey silt, wet.	Installed 27-27.5 ft.
29	400.3				2244	**Silty CLAY (CL)** Gray silty clay, very stiff, high plasticity, moist.	
30	399.3						
31	398.3	13 (30-32.5)	SPLIT SPOON			Poor recovery; 6 in. recovery **Silty CLAY (CL)**, gray, very stiff, hih plasticity, moist. No PID/FID readings.	
32	397.3						
33	396.3	14 (32.5-35)					
34	395.3						
35	394.3			6			

End of boring at 35 feet below ground surface.

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-DRO & GRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-54
	Project Number:	01005-093-351	
	Boring Location:	Old St. Louis and N.Delmar Ave	*Sheet:* 1 of 2
	Survey Coordinates (ft.):	N - 792112.31 E - 2316327.31	*Date/Time Started:* 01/11/05 1045
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: Adam Lock	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/11/05 1415
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Overcast/periods of rain, low 40s	
Drillers: J. Baker and S. Howe	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (430.37 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
					32.1	**Asphalt and coarse subgrade** (8 in.)	
1	429.4	1 (0-2.5)	HAND AUGER			**Silty CLAY (CL)** Black silty clay, low plasticity, dry/moist, soft.	
2	428.4				2641		
3	427.4	2 (2.5-5)			53.1	Color change to gray.	
4	426.4						**VMP-54VS** VERY SHALLOW VAPOR PROBE Installed 4.5-5 ft.
5	425.4				2341		
6	424.4	3 (5-7.5)			15.1		VMP-54 (2.5-5) @ 1340
7	423.4					Color change to Lt. gray. Very stiff, dry/moist.	
8	422.4	4 (7.5-10)			1302		
9	421.4				9.8	Orange mottling.	
10	420.4				1182		
11	419.4	5 (10-12.5)	SPLIT SPOON	55	27.9		
12	418.4				472	**CLAY (CL)** Tan clay, med plasticity, very stiff, dry/moist, gray & orange mottling.	
13	417.4	6 (12.5-15)			7.2		
14	416.4						
15	415.4				350		
16	414.4	7 (15-17.5)	SPLIT SPOON		6.3		
17	413.4				430		
18	412.4	8 (17.5-20)		30	11.3		
19	411.4					3 in. thick gray clayey silt, med stiff, low plasticity, dry/moist. Color change to gray.	
20	410.4				640		

Continued on Page 2

NOTES: AMSL = Above mean sea level
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FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:
SOIL: BTEX/MTBE/TPH-GRO & DRO
GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-54
	Project Number:	01005-093-351	
	Boring Location:	Old St. Louis and N. Delmar Ave	
			Sheet: 2 of 2
	Survey Coordinates (ft.):	N - 792112.31 E - 2316327.31	*Date/Time Started:* 01/11/05 1045
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: Adam Lock	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/11/05 1415
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Overcast/periods of rain, low 40s	
Drillers: J. Baker and S. Howe	*Drilling Equip.:*	CME 45	

Depth (feet)	Survey Elevation (430.37 feet AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
21	409.4	9 (20-22.5)	SPLIT SPOON		360	**CLAY (CL) - Cont'd.**	
22	408.4				3742	Gray **Silty CLAY** (CL) 11 in. thick, med stiff, low plasticity, orange mottle, moist.	**VMP-54M** MEDIUM VAPOR PROBE Installed 22.5 - 23 ft.
23	407.4	10 (22.5-25)		30	63.7		
24	406.4					Gray **Clayey SILT** (ML) 8 in. thick, med stiff, med plasticity, moist.	VMP-54 (22.5-25) @ 1330
25	405.4				4310	Gray **CLAY** (CL) 5 in. thick, very stiff, high plasticity, moist. Gray fine **SAND** (SP) 6 in. thick, well sorted, med stiff, wet, orange mottle.	
26	404.4	11 (25-27.5)	SPLIT SPOON	60	36.7	Gray **CLAY (CL)**, very stiff, high plasticity, moist/wet, with orange mottle.	
27	403.4				910		
28	402.4	12 (27.5-30)			547		
29	401.4					**SAND (SW)** Red sand, poorly sorted, dense, wet trace clay.	
30	400.4				1.2%		

End of boring at 30 feet below ground surface.

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-DRO & GRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-55
	Project Number:	01005-093-351	
	Boring Location:	N. Delmar, north of Casey's Station	
			Sheet: 1 of 2
	Survey Coordinates (ft.):	N - 791901.44 E - 2316595.11	*Date/Time Started:* 01/10/05 1000
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: Adam Lock	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/10/05 1415
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Overcast/periods of rain, low 40s	
Drillers: C. Brown and S. Howe	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (430.44ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	429.4	1 (0-2.5)	HAND AUGER		1.6 / 135	**Concrete (4 in.) and coarse subgrade**	
2	428.4					**Silty CLAY (CL)** Black silty clay, low plasticity, moist, soft.	
3	427.4	2 (2.5-5)			2.1 / 175	**Silty CLAY (CL)** Lt. brown silty clay, low plasticity, moist, orange mottles.	**VMP-55VS** VERY SHALLOW VAPOR PROBE Installed 4.5-5 ft.
4	426.4						
5	425.4						
6	424.4	3 (5-7.5)			1.2 / 60.1	Color change to dark gray at 6 ft., stiff.	VMP-55 (2.5-5) @ 1430
7	423.4						
8	422.4	4 (7.5-10)			13 / 115		
9	421.4						
10	420.4						
11	419.4	5 (10-12.5)	SPLIT SPOON	45	2.7 / 280	Color change to tan with orange mottles, very stiff, med plasticity, dry/moist.	
12	418.4						
13	417.4	6 (12.5-15)			0.5 / 300	3 in. thick gray clayey silt seam with orange mottles, dry/moist.	**VMP-55S** SHALLOW VAPOR PROBE Installed 13-13.5 ft. bgs
14	416.4						
15	415.4					3 in. thick gray clayey silt seam with orange mottles, dry/moist.	VMP-55 (12.5-15) @ 1440
16	414.4	7 (15-17.5)	SPLIT SPOON	45	1.0 / 168		
17	413.4						
18	412.4	8 (17.5-20)			0.0/ 97		
19	411.4						
20	410.4						

Continued on Page 2

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:
SOIL: BTEX/MTBE/TPH-GRO & DRO
GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-55
	Project Number:	01005-093-351	
	Boring Location:	N. Delmar, north of Casey's Station	
			Sheet: 2 of 2
	Survey Coordinates (ft.):	N - 791901.44 E - 2316595.11	*Date/Time Started:* 01/10/05 1000
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: Adam Lock	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/10/05 1415
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Overcast/periods of rain, low 40s	
Drillers: J. Baker and S. Howe	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (430.44 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
21	409.4	9 (20-22.5)	SPLIT SPOON		10	**SILTY CLAY (CL) - Cont'd.** Color change to gray, stiff.	
22	408.4				413		
23	407.4	10 (22.5-25)		50	19.8		
24	406.4						
25	405.4				908		
26	404.4	11 (25-27.5)	SPLIT SPOON		419	Free phase petroleum hydrocarbon product observed at 25.5 to 26 ft.	
27	403.4				19.70%		
28	402.4	12 (27.5-30)		60	360	Very high plasticity, orange mottling absent.	
29	401.4						
30	400.4				FO		
31	399.4	13 (30-32.5)	SPLIT SPOON		460		
32	398.4				FO		
33	397.4	14 (32.5-35)		30	360	**SAND (SW)** Red sand, poorly sorted, dense, wet, petroleum hydrocarbon odor.	
34	396.4						
35	395.4				FO		

End of boring at 35 ft. below ground surface.

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)
FO - Flame-out.

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-DRO & GRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:***
	Project Number:	01005-093-351	**VMP-56**
	Boring Location:	East of Fred's Trailer Park, north of Ameren UE Transformer	*Sheet:* 1 of 2
	Survey Coordinates (ft.):	N-791897.62 E -2316920.73	*Date/Time Started:* 01/10/05 1105
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: Brandon Gorte	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/10/05 1330
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Overcast, upper 30s/low 40s	
Drillers: C. Brown and J. Brown	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (429.98 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	429.0	1 (0-2)	HAND AUGER		0.14 / 64	**Grass/Topsoil, some gravel.**	
2	428.0					**Fill** Dark gray clayey silt fill, moist, organics, plant roots, soft.	
3	427.0	2 (2-4)			1.41 / 541	**Silty CLAY (CL)** Dark gray silty clay, organics, moist, soft, massive.	
4	426.0						**VMP-56VS** VERY SHALLOW VAPOR PROBE Installed 4.5-5 ft.
5	425.0	3 (4-6)			0.43 / 169		
6	424.0					**Silty CLAY (CL)** Olive gray silty clay, moist, organic, massive, med-stiff.	
7	423.0	4 (6-8)			1.02 / 149		
8	422.0						
9	421.0	5 (8-10)			5.24 / 1100	Some orange rust spots/mottling.	**VMP-56S** SHALLOW VAPOR PROBE Installed 10-10.5 ft. bgs
10	420.0						
11	419.0	6 (10-12.5)	SPLIT SPOON	57	71 / 3200	**Clayey Sandy Silt (CL/ML)** Dark gray/olive gray clayey sandy silt, organic, moist/wet, petroleum hydrocarbon odor, green petroleum staining, some orange rust spots, white mineralized structures (burrows), med-stiff.	VMP-56 (10-12.5) @ 1245
12	418.0						
13	417.0	7 (12.5-15)			131 / 4100		
14	416.0						**VMP-56M** MEDIUM VAPOR PROBE Installed 14.5-15 ft. bgs
15	415.0						
16	414.0	8 (15-17.5)	SPLIT SPOON	60	603 / 3.27%	**CLAY (CL)** Lt. brown/olive gray clay, moist, stiff, petroleum hydrocarbon odor.	
17	413.0						
18	412.0	9 (17.5-20)			688 / 6.01%	**Clayey Silt (CL/ML)** Lt. brown/olive gray clayey silt, moist/wet, med-stiff, wet.	
19	411.0						
20	410.0						VMP-56 (17.5-20) @ 1259

Continued on Page 2

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:
SOIL: BTEX/MTBE/TPH-GRO & DRO
GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-56
	Project Number:	01005-093-351	
	Boring Location:	East of Fred's Trailer Park, north of Ameren UE Transformer	*Sheet:* 2 of 2
	Survey Coordinates (ft.):	N-791897.62 E -2316920.73	*Date/Time Started:* 01/10/05 1105
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: Brandon Gorte	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/10/05 1330
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Overcast, upper 30s/low 40s	
Drillers: C. Brown and J. Brown	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (429.98 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
21	409.0	10 (20-22.5)	SPLIT SPOON	60	210 / 6900	**CLAY (CL)** Lt. brown/Lt. gray clay, high plasticity, moist, stiff to v. stiff, mottled, orange-rust oxidation, occasional silty clay seams.	
22	408.0						
23	407.0	11 (22.5-25)			482 / 1.6%		
24	406.0						
25	405.0						
26	404.0	12 (25-27.5)	SPLIT SPOON	60	354 / 1.79%	**Silty SAND (SM)** Lt. gray v.fine-fine grained silty sand, well sorted, wet, massive, loose, petroleum hydrocarbon odor/sheen.	
27	403.0						
28	402.0	13 (27.5-30)			116 / 3000	**CLAY (CL)** Lt. gray clay, high plasticity, wet, stiff to v.stiff, mottled, orange-rust oxidation, occasional silty clay seams.	
29	401.0						
30	400.0						

End of boring at 30 ft. below ground surface.

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-DRO & GRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-57
	Project Number:	01005-093-351	
	Boring Location:	NW Corner Hartford Community Center Field	*Sheet:* 1 of 1
	Survey Coordinates (ft.):	N - 791616.16 E - 2316449.84	*Date/Time Started:* 02/02/05 0900
	Drilling Method:	Hollow Stem Auger	
Logged By: A.Lock/M. Laub	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 02/02/05 1300
Drilling Co.: Phillip Environmental	*Weather(°F):*	Cold, low 30s	
Drillers: J. Bignall and E. Ivie	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (430.48 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	429.5	1 (0-4)	SPLIT SPOON	15	0.02 / 1.46	**Silty CLAY (CL)** Tan, soft, low plasticity, dry/moist.	
2	428.5						
3	427.5						
4	426.5						
5	425.5	2 (4-6.5)	SPLIT SPOON	48	0.58 / 60.78	Color change to grey, high plasticity, stiff.	**VMP-57VS** VERY SHALLOW VAPOR PROBE Installed 5-5.5 ft.
6	424.5						
7	423.5	3 (6.5-9)			0.10 / 5.39		
8	422.5						
9	421.5						
10	420.5	4 (9-11.5)	SPLIT SPOON	48	1.5 / 123	**Clayey Silt (ML)** Tan, high plasticity, blue/green mottles, some black organic silty clay	
11	419.5					6 in. thick, stiff, clay, interbedded blue/green with orange mottles, high plasticity	
12	418.5	5 (11.5-14)			10.51 / 1138	Alternating grey silt and clay layers, medium stiff to stiff.	VMP-57 (11.5-14) @ 1145 **VMP-57S** SHALLOW VAPOR PROBE Installed 13-13.5 ft. bgs
13	417.5						
14	416.5						
15	415.5	6 (14-16.5)	SPLIT SPOON	45	17.81 / 1246	**SILT (ML)** Gray silt with some clay, very soft, wet	
16	414.5					**SILTY CLAY (ML/CL)**, gray, soft, wet; **CLAY (CL),** gray, stiff, dry, orange mottling	
17	413.5	7 (16.5-19)			190	**SILTY CLAY (ML/CL)**, gray, stiff, high plasticity, orange mottling, moist; 3 in. silty layer, gray, with some clay, moist	
18	412.5					**CLAY (CL)** Gray, very stiff, orange mottling, moist	
19	411.5				3780	Wet, stiff.	

End of boring at 19 ft. below ground surface.

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:
SOIL: BTEX/MTBE/TPH-GRO & DRO
GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-58
	Project Number:	01005-093-351	
	Boring Location:	Intersection of N. Delmar and Rand Ave.	*Sheet:* 1 of 2
	Survey Coordinates (ft.):	N - 791638.30 E - 2316849.47	*Date/Time Started:* 01/10/05 1435
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: Adam Lock	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/11/05 1030
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Overcast/periods of rain, low 40s	
Drillers: C. Brown and S. Howe	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (430.32 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
					4.7	**Concrete (4 in.) and coarse subgrade**	
1	429.3	1 (0-2.5)	HAND AUGER			**Silty CLAY (CL)** Black silty clay, low plasticity, dry/moist, soft.	
2	428.3				680		
3	427.3	2 (2.5-5)			27	Color change to gray, low plasticity, dry/moist.	
4	426.3						**VMP-58VS** VERY SHALLOW VAPOR PROBE
5	425.3				460		Installed 4.5-5 ft.
6	424.3	3 (5-7.5)			41	**CLAY (CL)** Gray, clay, low plasticity, very stiff.	
7	423.3				310		
8	422.3	4 (7.5-10)			1.8	Orange mottling.	
9	421.3						
10	420.3				120		
11	419.3	5 (10-12.5)	SPLIT SPOON		10.7		**VMP-58S** SHALLOW VAPOR PROBE
12	418.3						Installed 11.5-12 ft. bgs
					820	6 in. clayey silt seam, low plasticity, dry/moist.	VMP-58 @ (10-12.5)
13	417.3	6 (12.5-15)		30	10.4	Stiff.	
14	416.3						
15	415.3				1500		
16	414.3	7 (15-17.5)	SPLIT SPOON		1.7		
17	413.3				129		
18	412.3	8 (17.5-20)		34	4.4	3 in. clayey silt seam, low plasticity, med stiff, wet. Very stiff.	
19	411.3						
20	410.3				70.1		

Continued on Page 2

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:
SOIL: BTEX/MTBE/TPH-GRO & DRO
GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-58
	Project Number:	01005-093-351	
	Boring Location:	Intersection of N. Delmar and Rand Ave	
			Sheet: 2 of 2
	Survey Coordinates (ft.):	N - 791638.30 E - 2316849.47	*Date/Time Started:* 01/10/05 1435
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: Adam Lock	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/11/05 1030
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Overcast/periods of rain, low 40s	
Drillers: C. Brown and S. Howe	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (430.32 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
21	409.3	9 (20-22.5)	SPLIT SPOON	60	168	**CLAY (CL) - Cont'd.**	VMP-58 @ (22.5-25)
22	408.3				1430	Free phase hydrocarbon product observed in natural partings from 21 to 22 ft. bgs. 2 in. thick Silt seam, wet.	
23	407.3	10 (22.5-25)			191		
24	406.3						
25	405.3				1680		
26	404.3	11 (25-27.5)	SPLIT SPOON	60	121		
27	403.3				2400		
28	402.3	12 (27.5-30)			98		
29	401.3						
30	400.3				1450		
31	399.3	13 (30-32.5)	SPLIT SPOON	60	480	**Silty CLAY (CL)** Gray silty clay, med stiff, moist.	
32	398.3				1.7%		
33	397.3	14 (32.5-35)			1240		
34	396.3					**SAND (SW)** Red sand, poorly sorted, dense, wet, strong petroleum hydrocarbon odor.	
35	395.3				>20.9%		

End of boring at 35 ft. below ground surface.

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-DRO & GRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-59
	Project Number:	01005-093-351	
	Boring Location:	Rand Rd, adjacent to SP-42/SP-43/SP-44	*Sheet:* 1 of 2
	Survey Coordinates (ft.):	N - 791766.55 E - 2317097.63	*Date/Time Started:* 01/12/05 1255
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: Brandon Gorte	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/12/05 1500
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Overcast/Rain, upper 30s	
Drillers: C. Brown and J. Brown	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (431.70 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	430.7	1 (0-2)	HAND AUGER		0.99 / 19.33	**Gravel, topsoil**	
2	429.7					**Fill.** Dark gray clayey silt, wet, soft, some organics, wood fragments, trace sand and gravel.	
3	428.7	2 (2-4)			0.51 / 5.71		
4	427.7						**VMP-59VS** VERY SHALLOW VAPOR PROBE Installed 4.5-5 ft.
5	426.7	3 (4-6)			0.62 / 5.83	**Silty CLAY (CL)** Lt. gray silty clay, moist, medium stiff, occasional orange oxidation spots, mottled.	
6	425.7						
7	424.7	4 (6-8)			29.12 / 826	Stiff, petroleum hydrocarbon odor.	
8	423.7						
9	422.7	5 (8-10)			466 / 4404		
10	421.7						
11	420.7	6 (10-12.5)	SPLIT SPOON	60	810 / 6.94%	**Silty SAND (SM)** Lt. gray/Lt. brown, v.fine grained silty sand, well sorted, moist, laminated, occasional oxidation spots, green petroleum hydrocarbon staining.	**VMP-59S** SHALLOW VAPOR PROBE Installed 10.5-11 ft. bgs
12	419.7						VMP-59 (10-12.5) @ 1422
13	418.7	7 (12.5-15)			702 / 1.25%	Strong petroleum hydrocarbon odor.	
14	417.7					Some silt lenses.	
15	416.7					White mineralized burrow structures.	
16	415.7	8 (15-17.5)	SPLIT SPOON		975 / 7.12%		
17	414.7						
18	413.7	9 (17.5-20)		24	951 / 6.72%		
19	412.7						
20	411.7					**SAND (SP)** Lt. gray, fine sand, well sorted, med stiff, moist, petroleum hydrocarbon odor.	

Continued on Page 2

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:
SOIL: BTEX/MTBE/TPH-GRO & DRO
GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-59
	Project Number:	01005-093-351	
	Boring Location:	Rand Rd, adjacent to SP-42/SP-43/SP-44	*Sheet:* 2 of 2
	Survey Coordinates (ft.):	N - 791766.55 E - 2317097.63	*Date/Time Started:* 01/12/05 1255
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: Brandon Gorte	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/12/05 1500
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Overcast/Rain, upper 30s	
Drillers: C. Brown and J. Brown	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (431.70 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
21	410.7	10 (20-22.5)	SPLIT SPOON	48	16.66	**SAND (SP), cont'd.**	Installed 20-20.5 ft. **VMP-59M** MEDIUM VAPOR PROBE
22	409.7						VMP-59 (20-22.5) @ 1440
23	408.7	11 (22.5-25)			146 / 16	**SILT (ML)** Dark gray silt, moist, stiff, strong petroleum hydrocarbon odor.	
24	407.7					**SAND (SP)** Dark gray fine grained sand, well sorted, medium dense, strong petroleum odor, wet at 24.5 ft.	
25	406.7				98		
26	405.7	10 (20-22.5)	SPLIT SPOON	48	16.66		
27	404.7						
28	403.7				146		
29	402.7						
30	401.7						

End of boring at 30 ft. below ground surface

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-DRO & GRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-60
	Project Number:	01005-093-351	
	Boring Location:	Tannery Property, near HROST-79	*Sheet:* 1 of 2
	Survey Coordinates (ft.):	N - 791623.84 E - 2317459.47	*Date/Time Started:* 01/11/05 1413
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: Brandon Gorte	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/11/05 1535
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Overcast/Rain, upper 30s	
Drillers: C. Brown and J. Brown	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (430.32 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	429.3	1 (0-2)	HAND AUGER		-0.13	**Grass, topsoil and some gravel**	
						Clayey SILT (CL/ML) - Black, n. plastic, moist, soft, organic plant remains.	
2	428.3				29.17	**Silty SAND (SW)** Black silty sand, poorly sorted, coarse grained, moist, loose, organic plant remains.	
3	427.3	2 (2-4)			-0.43		**VMP-60VS** VERY SHALLOW VAPOR PROBE Installed 3.5-4 ft.
4	426.3				143	**Clayey SILT (CL/ML)** Black clayey silt, n. plastic, moist, soft, organics.	
5	425.3	3 (4-6)			-0.15	**CLAY (CH)** Black clay, med plastic, moist, stiff, organic.	VMP-60 (4) @ 1432
6	424.3				44.11		
7	423.3	4 (6-8)			-0.12		
8	422.3				14.56	**Silty CLAY (CL)** Dark gray silty clay, med plastic, moist, medium, organic.	
9	421.3	5 (8-10)			0.00		
10	420.3				8.68	Lt. gray silty clay, med plastic, moist, stiff, some orange oxidation spots.	
11	419.3	6 (10-12.5)	SPLIT SPOON	58	0.08	**Silty SAND (SP)** Lt. gray/Lt. brown/yellow-orange laminated, v. fine grained silty sand, well sorted, moist, med dense.	**VMP-60S** SHALLOW VAPOR PROBE Installed 11-11.5 ft. bgs
12	418.3				34.96		
13	417.3	7 (12.5-15)			0.11		
14	416.3						
15	415.3				25.06		
16	414.3	8 (15-17.5)	SPLIT SPOON	60	0.33	**Clayey Silty SAND (SM)** Clayey silty sand, v. fine grained, moist, occasional white mineralized burrows, laminations.	
17	413.3				14.76		**VMP-60M** MEDIUM VAPOR PROBE Installed 17.5-18 ft. bgs
18	412.3	9 (17.5-20)			6.45	**SAND (SP)** Lt. gray, fine-med grained sand, well sorted, moist to wet, med dense, massive.	
19	411.3						
20	410.3				63.66		VMP-60 (17.5-20) @ 1517

Continued on Page 2

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:
SOIL: BTEX/MTBE/TPH-GRO & DRO
GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-60
	Project Number:	01005-093-351	
	Boring Location:	Tannery Property, near HROST-79	*Sheet:* 2 of 2
	Survey Coordinates (ft.):	N - 791623.84 E - 2317459.47	*Date/Time Started:* 01/11/05 1413
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: Brandon Gorte	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/11/05 1535
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Overcast/Rain, upper 30s	
Drillers: C. Brown and J. Brown	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (430.32 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
21	409.3	10 (20-22.5)	SPLIT SPOON	48	16.66 / 146	**SAND (SP), cont'd.** Lt. brown/Lt. gray fine-med grained sand with yellow-orange laminations.	
22	408.3						
23	407.3	11 (22.5-25)			16 / 98		
24	406.3						
25	405.3						

End of boring at 25 ft. below ground surface.

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-DRO & GRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-61
	Project Number:	01005-093-351	
	Boring Location:	Illinois Route 3, south of HMW-39	*Sheet:* 1 of 2
	Survey Coordinates (ft.):	N - 791030.13 E - 2316260.56	*Date/Time Started:* 01/12/05 0820
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: Brandon Gorte	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/12/05 0950
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Partly sunny, upper 50s	
Drillers: C. Brown and J. Brown	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (427.07 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	426.1	1 (0-2)	HAND AUGER		0.55	**Grass, topsoil and some gravel**	
						Fill - Road base - gravel.	
2	425.1				1.13	**Silty CLAY (CL)**	
3	424.1	2 (2-4)			0.56	Dark gray silty clay, low plasticity, moist, massive, soft-medium, stiff.	
4	423.1				1.25	Lt. gray silty clay, med-plasticity, cohesive, moist, medium-stiff, orange oxidation spots, mottling.	**VMP-61VS** VERY SHALLOW VAPOR PROBE Installed 4.5-5 ft.
5	422.1	3 (4-6)			0.57		
6	421.1				1.46		
7	420.1	4 (6-8)			0.56		
8	419.1				3.3		
9	418.1	5 (8-10)			0.74	**Silty SAND (SM)**	
10	417.1				1.6	Lt. gray/Lt. brown silty sand, v.fine grained, well sorted, med dense, moist, massive.	**VMP-61S** SHALLOW VAPOR PROBE Installed 9.5-10 ft. bgs
11	416.1	6 (10-12.5)	SPLIT SPOON		0.81		
12	415.1			40			
13	414.1				2.31	**Clayey Sandy SILT (ML)**	
		7 (12.5-15)			0.94	Lt. gray/Lt brown clayey sandy silt, moist.	
14	413.1					**Silty SAND (SM)**	
15	412.1				4.10	Lt. brown/Lt. gray/yellow-orange silty sand, v.fine grained, laminated, well sorted, moist, some white mineralized structures, med stiff.	
16	411.1	8 (15-17.5)	SPLIT SPOON		0.85		
17	410.1			52			
18	409.1				2.25	**SAND (SP)**	**VMP-61M** MEDIUM VAPOR PROBE Installed 18-18.5 ft. bgs
		9 (17.5-20)			0.80	Yellow-orange, fine to medium grain sand, well sorted, moist, massive, med stiff.	
19	408.1						
20	407.1				2.35		

Continued on Page 2

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:
SOIL: BTEX/MTBE/TPH-GRO & DRO
GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-61
	Project Number:	01005-093-351	
	Boring Location:	Illinois Route 3, south of HMW-39	*Sheet:* 2 of 2
	Survey Coordinates (ft.):	N - 791030.13 E - 2316260.56	*Date/Time Started:* 01/12/05 0820
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: Brandon Gorte	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/12/05 0950
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Partly sunny, upper 50s	
Drillers: C. Brown and J. Brown	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (427.07 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
21	407.1	10 (20-22.5)	SPLIT SPOON	36	0.78	**SAND (SP), cont'd.** Yellow-orange/Lt. brown/black organic laminations, crossbedding, and occasional silt seams.	**VMP-61D** DEEP VAPOR PROBE Installed 24-24.5 ft. VMP-61 (22.5-25) @ 931
22	406.1						
					1.96		
23	405.1	11 (22.5-25)			0.83		
24	404.1						
25	403.1				2.69		
26	402.1	12 (25-27.5)	SPLIT SPOON	52	0.57	**SAND (SW)** V. coarse-coarse sand, poorly sorted, some fines, wet, med stiff, orange oxidation layer (3/4 in. thick), and black organic layer (1.25 in. thick) at 26.5 ft.	
27	401.1				27		
28	400.1	13 (27.5-30)			0.68	Silt seam (1.5 in. thick) at 27.5 ft.	
29	399.1					**SAND (SP)** Yellow-orange/Lt. brown med grained sand, well sorted, wet, med dense, some organic (black) laminations.	
30	398.1				13.39		

End of boring 30 ft. below ground surface

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-DRO & GRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:***
	Project Number:	01005-093-351	**VMP-62**
	Boring Location:	N. Olive Street, between Birch and Cherry Streets	
			Sheet: 1 of 2
	Survey Coordinates (ft.):	N - 791118.67 E - 2317341.13	*Date/Time Started:*
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	01/04/05 1135
Logged By: Adam Lock	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:*
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Overcast, cold, mid 40s	01/07/05 0900
Drillers: S. Howe & C. Brown	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (428.82 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	427.8	1 (0-2.5)	HAND AUGER		0.0 / 25.1	**Asphalt (4 in.)** **Silty CLAY (CL)** Black silty clay, low plasticity, dry/moist, soft.	
2	426.8						
3	425.8	2 (2.5-5)			0.0 / 35	Dark gray silty clay, med plasticity, dry/moist, soft, orange mottles.	**VMP-62VS** VERY SHALLOW VAPOR PROBE Installed 4-4.5 ft. VMP-62 @ (2.5-5)
4	424.8						
5	423.8						
6	422.8	3 (5-7.5)			0.0 / 34.1	Color change to tan.	
7	421.8						
8	420.8	4 (7.5-10)			0.0 / 70.7	**SILT (ML)** Lt. gray silt, low plasticity, dry/moist, orange mottle.	**VMP-62S** SHALLOW VAPOR PROBE Installed 9-9.5 ft. bgs VMP-62 @ (8.5-10)
9	419.8						
10	418.8						
11	417.8	5 (10-12.5)	SPLIT SPOON	60	0.0 / 15.7	**Silty CLAY (CL)** Gray with tan silty clay, medium plasticity, moist, stiff, orange mottle.	
12	416.8						
13	415.8	6 (12.5-15)			0.4 / 9.2	Silt interbeds.	
14	414.8						
15	413.8						
16	412.8	7 (15-17.5)	SPLIT SPOON	60	0.0 / 2.4	**Clayey Silt (CL/ML)** Gray clayey silt, low plasticity, wet, stiff.	
17	411.8					Orange laminations.	
18	410.8	8 (17.5-20)			2.4 / 18.4	Free phase hydrocarbon product and black staining observed at 19 to 20 ft. bgs, wet.	
19	409.8						
20	408.8						

Continued on Page 2

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:
SOIL: BTEX/MTBE/TPH-GRO & DRO
GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-62
	Project Number:	01005-093-351	
	Boring Location:	N.Olive Street, between Birch and Cherry Streets	
			Sheet: 2 of 2
	Survey Coordinates (ft.):	N - 791118.67 E - 2317341.13	*Date/Time Started:* 01/04/05 1135
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: Adam Lock	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/07/05 0900
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Overcast, cold, mid 40s	
Drillers: S. Howe & C. Brown	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (428.82 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
21	407.8	10 (20-22.5)	SPLIT SPOON	16	NA	**SAND (SP)** Tan fine sand, wet, orange laminations, medium stiff.	
22	406.8						
23	405.8	11 (22.5-25)			NA		
24	404.8						
25	403.8						

End of Boring at 25 ft. below ground surface.

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-DRO & GRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-63
	Project Number:	01005-093-351	
	Boring Location:	Tannery Property, near HMW-50	*Sheet:* 1 of 2
	Survey Coordinates (ft.):	N - 791285.71 E - 2317614.05	*Date/Time Started:* 01/11/05 0817
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: Brandon Gorte	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/11/05 0933
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Overcast/Rain, upper 30s	
Drillers: C. Brown and J. Brown	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (431.60 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	430.6	1 (0-2)	HAND AUGER		-0.27	**Grass, topsoil**	
2	429.6				-1.1	**FILL -** Black, silt-coarse sand, poorly sorted, wet, loose.	
3	428.6	2 (2-4)			-0.19		
4	427.6				-1.42	**SILT (ML)** Black organic silt, non-plastic, moist, soft.	**VMP-63VS** VERY SHALLOW VAPOR PROBE Installed 4.5-5 ft.
5	426.6	3 (4-6)			-0.11		
6	425.6				0.39	**Clayey SILT (CL/ML)** Dark gray clayey silt, low plasticity, moist, medium stiff, trace organics.	
7	424.6	4 (6-8)			-0.03		
8	423.6				-0.21	**Silty Clay (CL)**	
9	422.6	5 (8-10)			-0.14	Lt. gray silty clay, med plasticity, moist, stiff, some orange rust spots.	
10	421.6				-0.58	Color change to Lt. brown.	
11	420.6	6 (10-12.5)	SPLIT SPOON	59	-0.21		
12	419.6				-0.05		
13	418.6	7 (12.5-15)			-1.14		
14	417.6						
15	416.6				-0.42		
16	415.6	8 (15-17.5)	SPLIT SPOON	58	0.00		
17	414.6				-0.39	Grades to medium stiff with more silt.	
18	413.6	9 (17.5-20)			0.02		**VMP-63S** SHALLOW VAPOR PROBE Installed 18.5-19 ft. bgs
19	412.6					**Silty SAND (SP)** Lt. gray/Lt. brown laminated silty sand, v.fine grained, well sorted, moist/wet, med dense, some organics	
20	411.6				-0.29		VMP-63 (17.5-20) @ 910

Continued on Page 2

NOTES: AMSL = Above mean sea level
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FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:
SOIL: BTEX/MTBE/TPH-GRO & DRO
GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-63
	Project Number:	01005-093-351	
	Boring Location:	Tannery Property, near HMW-50	*Sheet:* 2 of 2
	Survey Coordinates (ft.):	N - 791285.71 E - 2317614.05	*Date/Time Started:* 01/11/05 0817
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: Brandon Gorte	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/11/05 0933
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Overcast/Rain, upper 30s	
Drillers: C. Brown and J. Brown	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (430.32 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
21	410.6	10 (20-22.5)	SPLIT SPOON	48	-0.21	**Silty SAND (SP), cont'd.** Lt. brown/yellow-orange laminated v.fine grained sand, well sorted, wet, mineralized burrow structures at 23-25 ft.	
22	409.6				-0.46		
23	408.6	11 (22.5-25)			0.00		
24	407.6						
25	406.6				-0.5		

End of boring at 25 ft. below ground surface.

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-DRO & GRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-64
	Project Number:	01005-093-351	
	Boring Location:	N.Olive Street, between Cherry and Date Streets	*Sheet:* 1 of 2
	Survey Coordinates (ft.):	N - 790753.36 E - 2317483.48	*Date/Time Started:* 01/03/05 1300
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: A. Lock	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/04/05 1030
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Cold, rain, mid 40s	
Drillers: J. Baker and S. Howe	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (429.32 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	428.3	1 (0-2.5)	HAND AUGER		0.30 / 12.07	**Asphalt/rock fill** (6 in. thick)	
2	427.3					**Silty Clay (CL)** Black, low plasticity, lsoft, dry/moist. Dark gray silty clay, low plasticity, med stiff, dry/moist.	
3	426.3	2 (2.5-5)			0.05 / 12.85		
4	425.3						**VMP-64VS** VERY SHALLOW VAPOR PROBE Installed 4.5-5 ft. bgs
5	424.3						
6	423.3	3 (5-7.5)			0.04 / 5.11	Lt. gray with orange mottle, medium plasticity, moist.	
7	422.3						
8	421.3	4 (7.5-10)			0.03 / 25.58		**VMP-64S** SHALLOW VAPOR PROBE Installed 8-8.5 ft. bgs
9	420.3					**SILT (ML)** Lt. gray silt, low plasticity, med stiff, moist, orange mottle	
10	419.3					**Silty CLAY (CL)** Gray silty clay, med plasticity, med stiff, moist, mottle.	VMP-64 (7.5-10) @ 0930 VMP-64 (10-12.5) @ 0940
11	418.3	5 (10-15)	SPLIT SPOON		0.38 / 8.54	**SILT (ML)** Gray silt, low plasticity, med stiff, moist, orange mottle.	
12	417.3						**VMP-64M** MEDIUM VAPOR PROBE Installed 12-12.5 ft. bgs
13	416.3			50	0.69 / 5.57	**Clayey SILT (CL/ML)** Gray clayey silt, medium stiff, wet, orange and brown mottles.	
14	415.3						
15	414.3						
16	413.3	6 (15-20)	SPLIT SPOON	60	6.30 / 28.8	**Silty CLAY (CL)** Gray silty clay, very high plasticity, very stiff, moist, interbedded with gray clayey silt, med plasticity. Orange laminations from 16 to 18 ft.	
17	412.3						
18	411.3				7.19 / 42.38		
19	410.3						
20	409.3						

Continued on Page 2

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FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:
SOIL: BTEX/MTBE/TPH-DRO & GRO
GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-64
	Project Number:	01005-093-351	
	Boring Location:	N.Olive Street, between Cherry and Date Streets	
			Sheet: 2 of 2
	Survey Coordinates (ft.):	N - 790753.36 E - 2317483.48	*Date/Time Started:* 01/03/05 1300
	Drilling Method:	Hand Auger and Hollow Stem Auger(4.25" ID)	
Logged By: A. Lock	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/04/05 1030
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Cold, rain, mid 40s	
Drillers: J. Baker and S. Howe	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (429.32 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
21	408.3	7 (20-25)	SPLIT SPOON	60	0.23	**Silty CLAY cont'd.**	
22	407.3					**Silty CLAY (CL)** Gray silty clay, med plasticity, very stiff, moist/wet, orange mottle.	
23	406.3				2.59		
24	405.3				0.07		
25	404.3				1.0	Lt. gray silty clay, med plasticity, very stiff, moist/wet, orange mottle.	
26	403.3	8 (25-30)	SPLIT SPOON	48	3.57		
27	402.3						
28	401.3				18.23 35.70		
29	400.3					Very high plasticity, moist/wet, with some organic matter.	
30	399.3				346		
31	398.3	9 (30-35)	SPLIT SPOON		558	**SAND (SP)** Poor recovery. Red, fine to med sand, med density, wet, free phase hydrocarbon product observed.	
32	397.3						
33	396.3				0.92%		
34	395.3						
35	394.3			6			

End of Boring at 35 ft. below ground surface

NOTES: AMSL = Above mean sea level
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FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-DRO & GRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** **VMP-65**
	Project Number:	01005-093-351	
	Boring Location:	In pavement E. side of street, 409 N Olive St.	*Sheet:* 1 of 2
	Survey Coordinates (ft.):	N - 790422.13 E - 2317593.61	*Date/Time Started:* 12/29/04 0930
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: Brandon Gorte	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 12/29/04 1115
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Sunny, cool, upper 40s	
Drillers: C. Brown and J. Brown	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (429.73 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	428.9	1 (0-2)	HAND AUGER		13 / 777	**BITUMINOUS ASPHALT** (Roadway)-9 in.	
2	427.9					**Silty CLAY (ML/CL)** Dark gray silty clay, low plasticity, massive, dry/moist, soft, slight petroleum odor.	
3	426.9	2 (2-4)			9.51 / 210		**VMP-65VS** VERY SHALLOW VAPOR PROBE Installed 4.5-5 ft.
4	425.9						
5	424.9	3 (4-6)			4.04 / 206	**CLAY (CL)** Olive gray clay, high plasticity, stiff, moist, orange oxidation, mottling. Slight petroleum odor.	
6	423.9						
7	422.9	4 (6-8)			16.65 / 700	**Silty CLAY (CL)** Olive gray silty clay, med plasticity, soft, dry/moist, orange oxidation, mottling, slight petroleum odor.	
8	421.9						
9	420.9	5 (8-10)			22.37 / 401	Olive gray silty clay, med plasticity, medium stiff, moist, orange oxidation, mottling, stronger petroleum odor.	
10	419.9						
11	418.9	6 (10-15)	SPLIT SPOON		39.83 / 503		**VMP-65S** SHALLOW VAPOR PROBE Installed 11-11.5 ft.
12	417.9						
13	416.9			41	342 / 7600	Olive, Lt. gray silty clay, med plasticity, massive, stiff, moist, petroleum odor.	
14	415.9						
15	414.9					wet.	
16	413.9	7 (15-20)	SPLIT SPOON		700 / 8000	**Silty CLAY (CL)** Olive-Lt. gray silty clay, med plasticity, stiff, orange oxidation mottling, moist, petroleum odor.	
17	412.9						
18	411.9			45	820 / 2.41%		
19	410.9						
20	409.9					Wet at 19.5 ft.	

Continued on Page 2

NOTES: AMSL = Above mean sea level
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FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:
SOIL: BTEX/MTBE/TPH-DRO & GRO
GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-65
	Project Number:	01005-093-351	
	Boring Location:	In pavement E. side of street, 409 N. Olive St.	*Sheet:* 2 of 2
	Survey Coordinates (ft.):	N - 790422.13 E - 2317593.61	*Date/Time Started:* 12/29/04 0930
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: Brandon Gorte	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 12/29/04 1115
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Sunny, cool, upper 40s	
Drillers: C. Brown and J. Brown	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (429.73 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
21	408.9	8 (20-25)	SPLIT SPOON	40	702	**Silty SAND (SP)** Lt. gray silty sand, non-plastic, v. fine grained, loose, moist, strong petroleum odor.	VMP-65 (20-22.5) @ 1031 **VMP-65M** MEDIUM VAPOR PROBE Installed 21.5-22 ft. bgs.
22	407.9						
23	406.9				NA / 800	Yellow-orange laminations at 23 ft. bgs.	
24	405.9					**SAND (SP)** Lt. gray sand, med stiff, fine to v. fine, wet.	
25	404.9				10%	**Silty CLAY (CL)** Lt. gray silty clay high plasticity, stiff to medium stiff, orange oxidation mottling, moist, strong petroleum odor.	
26	403.9	9 (25-30)	SPLIT SPOON		703		
27	402.9					v. stiff.	
28	401.9						
29	400.9			25			
30	399.9				6226		
31	398.9	10 (30-35)	SPLIT SPOON		900	**SAND (SP)** Lt. brown/yellow-orange, fine-med grained sand, med density, moist, strong petroleum odor.	VMP-65 (30-35) @ 1115 **VMP-65D** DEEP VAPOR PROBE Installed 31.5-32 ft. bgs.
32	397.9					Black laminations.	
33	396.9						
34	395.9			32		Silt seam approx 2 in. thick at 33 ft.	
35	394.9				18%	Wet at 34 ft.	

End of Boring at 35 ft. below ground surface

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)
NA - Not available.

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-DRO & GRO

GROUNDWATER: none submitted

Client:	**HARTFORD WORKING GROUP**		***BORING ID:*** VMP-66
Project Number:	01005-093-351		
Boring Location:	West end of alley, located between Elm and Date Streets		*Sheet:* 1 of 2
Survey Coordinates (ft.):	N - 790449.98	E - 2316433.23	*Date/Time Started:* 12/27/04 1430
Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)		
Logged By: Brandon Gorte	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 12/27/04 1543
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Sunny, cold, low 20s	
Drillers: C. Brown and J. Brown	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (425.68 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
						BITUMINOUS ASPHALT (Roadway)-6 in.	
1	424.7					**Organic Layer**	
2	423.7	1 (2)	HAND AUGER		0 / 0	**Silty CLAY (CL)** Dark brown silty clay, massive, dry, soft.	
3	422.7						
4	421.7	2 (4)			0.01 / 0.30	Olive brown, med plasticity, med stiff to stiff, orange mottling, moist.	**VMP-66VS** VERY SHALLOW VAPOR PROBE Installed 4.5-5 ft.
5	420.7						
6	419.7	3 (6)			0.07 / 1.79	Lt. brown/tan, med plasticity, med stiff to stiff, massive, moist.	
7	418.7						
8	417.7	4 (8)			0.13 / 0.87		
9	416.7						
10	415.7	5 (10)			0.05 / 1.24	Lt. brown, med plasticity, med stiff, massive, moist.	**VMP-66S** SHALLOW VAPOR PROBE Installed 10.5-11 ft.
11	414.7	6 (10-15)	SPLIT SPOON	50	1.62 / 13.16	**SAND (SW)** Gray-black, coarse grained sand, poorly sorted. **Silty SAND (SM)** Silty sand, v. fine grained, dense. Interbedded Lt. Brown and yellow-orange sand with fines, well sorted.	VMP-66 (10-12.5) @ 1520
12	413.7						
13	412.7				0.16 / 0.71	**SAND (SP)** V. Fine-Fine sand, Med dense, well sorted.	
14	411.7						
15	410.7						
16	409.7	7 (15-20)	SPLIT SPOON	58	0.05 / 1.19	**Silty SAND (SM)** Lt. gray, silty sand, well sorted.	
17	408.7					**SAND (SP)** Yellow-orange/Lt. brown beds, fine-v. fine grain, w. sorted, med dense	**VMP-66M** MEDIUM VAPOR PROBE Installed 17-17.5 ft.
18	407.7				0.09 / 1.05	Fine grained Sand	
19	406.7						
20	405.7						

Continued on Page 2

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:
SOIL: BTEX/MTBE/TPH-DRO & GRO
GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-66
	Project Number:	01005-093-351	
	Boring Location:	West end of alley, located between Elm and Date Sts	*Sheet:* 2 of 2
	Survey Coordinates (ft.):	N - 790449.98 E - 2316433.23	*Date/Time Started:* 12/27/04 1430
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: Brandon Gorte	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 12/27/04 1543
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Sunny, cold, low 20	
Drillers: C. Brown and J. Brown	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (425.68 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
21	404.7	8 (20-25)	SPLIT SPOON	40	0.04	**SAND (SP), Cont'd.**	
22	403.7						
23	402.7				0.33 / 0.00		VMP-66 (22.5-25) @ 1536 **VMP-66D** DEEP VAPOR PROBE Installed 24-24.5 ft.
24	401.7						
25	400.7				0.43		
26	399.7	9 (25-30)	SPLIT SPOON	50	0.01	Fine to medium grained sand, lack bedding structure.	
27	398.7						
28	397.7				0.6	Wet at 27 ft.	
29	396.7						
30	395.7						

End of Boring at 30 ft. below ground surface

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-DRO & GRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-67
	Project Number:	01005-093-351	
	Boring Location:	East end of alley between W. Elm Street and W. Date Street	*Sheet:* 1 of 2
	Survey Coordinates (ft.):	N - 790443.95 E - 2316746.20	*Date/Time Started:* 12/27/2004 1455
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: A. Lock	*Checked By:*	J. Petruccione	*Date/Time Finished:* 12/27/2004 1634
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Sunny, cold, teens to low 20s	
Drillers: J. Baker and S. Howe	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (432.05 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	431.1	1 (0-2)	HAND AUGER		0.0	**BITUMINOUS ASPHALT** (Roadway)	
2	430.1				0.0	**Silty CLAY (CL)** Dark brown, silty clay, low plasticity, dry/moist, soft.	
3	429.1	2 (2-4)			0.0		
4	428.1				0.0	**CLAYEY SILT (CL/ML)** Lt. Brown, clayey silt, low plasticity, dry/moist, soft.	
5	427.1	2 (4-6)			0.0		**VMP-67VS** VERY SHALLOW VAPOR PROBE Installed 5.5-6.0 ft.
6	426.1				0.0		
7	425.1	4 (6-8)			0.0	**Sandy SILT (ML)** Lt. brown, fine- to very fine-grained sandy silt, well sorted, loose, moist.	
8	424.1				0.0		
9	423.1	5 (8-10)			0.0	**CLAYEY SILT (CL/ML)** Lt. Brown, clayey silt, low plasticity, dry/moist, soft.	
10	422.1				0.0	**Silty CLAY (CL)** Gray, silty clay, medium plasticity, very stiff, dry/moist.	
11	421.1	6 (10-15)	SPLIT SPOON		0.0		
12	420.1					Blue/green mottles	
13	419.1			30	5.5 10.1	Change to high plasticity	
14	418.1						
15	417.1				27		
16	416.1	7 (15-20)	SPLIT SPOON	60	875	**SILT (ML)** Gray, silt, stiff, some orange and blue/green mottles, dry, strong petroleum hydrocarbon odors.	**VMP-67S** SHALLOW VAPOR PROBE Installed 16.5-17 ft.
17	415.1						
18	414.1				23,100 920		
19	413.1						
20	412.1				7200	**Silty CLAY (CL) -** Gray, silty clay seam, very stiff,(5 in. thick). **SILT (ML) -** Gray, silt, stiff, some orange and blue/green mottles, dry.	

Continued on Page 2

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:
SOIL: BTEX/MTBE/TPH-DRO & GRO
GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-67
	Project Number:	01005-093-351	
	Boring Location:	East end of alley between W. Elm Street and W. Date Street	*Sheet:* 2 of 2
	Survey Coordinates (ft.):	N - 790443.95 E - 2316746.20	*Date/Time Started:* 12/27/2004 1455
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: A. Lock	*Checked By:*		*Date/Time Finished:* 12/27/2004 1634
Drilling Co.: MRK Environmental Exploration, Inc.		*Weather(°F):* Sunny, cold, teens to low 20s	
Drillers:		*Drilling Equip.:* CME 45	

Depth (feet)	Elevation (432.05 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
21	411.1	8 (20-25)	SPLIT SPOON	60	820	**SAND (SP)** Lt. gray fine sand, well sorted, medium dense, some orange mottles, dry/moist, strong petroleum hydrocarbon odors.	**VMP-67M** MEDIUM VAPOR PROBE Installed 20.5-21 ft.
22	410.1						
23	409.1				>23900 / 813	Change in color to dark gray	
24	408.1						
25	407.1				>23900		
26	406.1	9 (25-30)	SPLIT SPOON	48	890	**SILT (ML)** Lt. gray, silt, medium stiff. Dark gray, silt, wet at 26 ft. bgs. Moist at 26.5 ft. bgs.	
27	405.1						
28	404.1				7300 / 690	**SAND (SP)** Lt. gray, fine sand, well sorted, medium stiff, dry/moist, strong petroleum hydrocarbon odors	**VMP-67D** DEEP VAPOR PROBE Installed 29-29.5 ft.
29	403.1						
30	402.1				2400	Black staining at 29.5 ft bgs to end of boring	

End of Boring at 30 ft. below ground surface

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-DRO & GRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-68
	Project Number:	01005-093-351	
	Boring Location:	North of intersection of Elm and Market Streets	*Sheet:* 1 of 2
	Survey Coordinates (ft.):	N - 790339.85 E - 2317023.18	*Date/Time Started:* 12/28/2004 1300
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: B. Gorte	*Checked By:*	J. Petruccione	*Date/Time Finished:* 12/28/2004 1430
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Sunny, cold, 40s	
Drillers: C. Brown and J. Brown	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (430.66 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	429.7	1 (0-2.5)	HAND AUGER		-0.27	**Grass and topsoil**	
2	428.7				-1.55	**Silty CLAY (CL)** Dark gray, silty clay, low plasticity, massive, moist, soft.	
3	428.7	2 (2.5-5)			-0.25	**Silty CLAY (CL)** Lt. brown, silty clay, low plasticity, massive, moist, soft	
4	427.7						
5	427.7				-1.42		**VMP-68VS** VERY SHALLOW VAPOR PROBE Installed 5.5-6.0 ft.
6	426.7					No samples collected.	
7	426.7						
8	425.7						
9	425.7						
10	424.7						
11	424.7	3 (10-15)	SPLIT SPOON	60	17.72	**Silty CLAY (CL)** Olive gray, silty clay, high plasticity, very stiff, massive, moist, petroleum hydrocarbon odor	
12	423.7						
13	423.7				167		
14	422.7				28.07		
15	422.7				286		
16	421.7	4 (15-20)	SPLIT SPOON		490	**Silty SAND (SP)** Olive to Lt. gray silt and very fine grained sand, well sorted, massive, loose, moist, strong petroleum hydrocarbon odor	
17	421.7				8.06%		**VMP-68S** SHALLOW VAPOR PROBE Installed 17.5-18 ft.
18	420.7			30	404		
19	420.7					Light brown and yellow-orange banding 18-19 ft bgs	
20	419.7				>24.66%		VMP-68 (17.5-20) @ 1400

Continued on Page 2

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:
SOIL: BTEX/MTBE/TPH-DRO & GRO
GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-68
	Project Number:	01005-093-351	
	Boring Location:	North of intersection of Elm and Market Street	
			Sheet: 2 of 2
	Survey Coordinates (ft.):	N - 790339.85 E - 2317023.18	*Date/Time Started:* 12/28/2004 1300
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: B. Gorte	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 12/28/2004 1430
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Sunny, cold, 40s	
Drillers: C. Brown and J. Brown	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (430.32 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
21	418.7	5 (20-25)	SPLIT SPOON	27	287 / >24.86%	**Sandy SILT (ML)** Olive gray sandy silt, non-plastic, massive, loose, moist, strong petroleum odor	**VMP-68M** MEDIUM VAPOR PROBE Installed 21-21.5 ft.
22	417.7						
23	416.7				195 / >24.86%	Yellow, light brown, and gray banding 23-25ft	VMP-68 (22.5-25) @ 1412
24	415.7						**VMP-68D** DEEP VAPOR PROBE Installed 24.5-25 ft.
25	414.7						
26	413.7	6 (25-30)	SPLIT SPOON	44	366 / >24.86%	**SILT (ML)** Lt. gray and dark gray banded silt, high plasticity, stiff, wet, strong petroleum odor	
27	412.7						
28	411.7				250 / >24.86%		
29	410.7					**SAND with SILT (SP-ML)** Lt. gray, dark gray and black laminated, fine grained sand with silt, non-plastic, dense, wet. Lt. brown, Lt. gray, and dark gray laminations from 29 ft. to end of boring	
30	409.7						

End of Boring at 30 ft. below ground surface

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-DRO & GRO

GROUNDWATER: none submitted

Client:	**HARTFORD WORKING GROUP**		***BORING ID:*** VMP-69
Project Number:	01005-093-351		
Boring Location:	Market Street, south of Elm, adjacent to alley.		*Sheet:* 1 of 2
Survey Coordinates (ft.):	N - 790124.38	E - 2317018.27	*Date/Time Started:* 12/28/2004 1535
Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)		
Logged By: A. Lock	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 12/29/2004 0935
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Sunny, cold, mid-30s	
Drillers: J. Baker and S. Howe	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (431.04 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	430.04	1 (0-2)	HAND AUGER		0.44	**Asphalt- coarse subgrade - fill material**	
2	429.0				2.21	**Silty CLAY (CL)** Black, silty clay, low plasticity, med stiff, dry/moist.	
3	428.0	2 (2-4)			0.41		
4	427.0				2.01	Color change to Lt. brown color, dry/moist.	
5	426.0	3 (4-5)			0.27 / 1.89	Change to med plasticity.	**VMP-69VS** VERY SHALLOW VAPOR PROBE Installed 5.5-6.0 ft.
6	425.0	4 (5-10)	SPLIT SPOON		3.86	**Clayey SILT (CL/ML)** Lt. brown, clayey silt, med plasticity, med stiff, orange mottles, dry/moist.	
7	424.0					**Silty CLAY (CL)** Black silty clay, med plasticity, very stiff, striations, moist.	
8	423.0				21.51		
9	422.0			40	12.29	Color change to gray with blue/green mottling, high plasticity, moist.	
10	421.0				72.8		
11	420.0	5 (10-15)	SPLIT SPOON		22.12		
12	419.0						
13	418.0			60	87.7 / 1157	**SAND (SP)** Blue/green fine sand, well sorted, med stiff, moist, strong petroleum hydrocarbon odor.	**VMP-69M** MEDIUM VAPOR PROBE Installed 13.5-14 ft.
14	417.0						
15	416.0				3.89%		VMP-69 (13-15) @ 1645
16	415.0	6 (15-20)	SPLIT SPOON		1141	Change to gray with some orange brown laminations.	
17	414.0						
18	413.0			40	2.3% / 1159		
19	412.0						
20	411.0				3.01%		

Continued on Page 2

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:
SOIL: BTEX/MTBE/TPH-DRO & GRO
GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-69
	Project Number:	01005-093-351	
	Boring Location:	Market Street, south of Elm, adjacent to alley.	
			Sheet: 2 of 2
	Survey Coordinates (ft.):	N - 790124.38 E - 2317018.27	*Date/Time Started:* 12/28/2004 1535
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: A. Lock	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 12/29/2004 0935
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Sunny, cold, mid-30s	
Drillers: J. Baker and S. Howe	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (431.04 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
21	410.0	7 (20-25)	SPLIT SPOON	40	1311	**SAND (SP), Cont'd.**	
22	409.0				2.69%		
23	408.0				>1413		**VMP-69D** DEEP VAPOR PROBE Installed 24-24.5 ft.
24	407.0						
25	406.0				>31.9%		VMP-69 (22.5-25) @ 1640

End of Boring at 25 ft. below ground surface

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per milli
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-DRO & GRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-70
	Project Number:	01005-093-351	
	Boring Location:	Alley between Olive, Forest, & Elm Streets	*Sheet:* 1 of 2
	Survey Coordinates (ft.):	N - 790119.74 E - 2317496.06	*Date/Time Started:* 01/03/05 0930
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: Brandon Gorte	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/03/05 1158
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Overcast, low 40s	
Drillers: J. Barker and S. Howe	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (431.39 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	430.4	1 (0-2)	HAND AUGER		0.69 / 1.49	**Gravel** (6 in. thick) **Fill**	
2	429.4						
3	428.4	2 (2-4)			2.38 / 1.7	**Fill** Dark gray silty clay, massive, dry/moist.	
4	427.4						
5	426.4	3 (4-6)			2.50 / 2.14	**Silty CLAY (CL)** Lt. brown silty clay, massive, moist, soft.	**VMP-70VS** VERY SHALLOW VAPOR PROBE Installed 4.5-5 ft.
6	425.4						
7	424.4	4 (6-8)			2.08 / 1.5	**CLAY (CL)** Lt. brown clay, mottled, moist, stiff, orange oxidation spots (1/8 in. diam).	
8	423.4						
9	422.4	5 (8-10)			2.01 / 1.8		
10	421.4					**Silty CLAY (CL).** Medium stiff.	
11	420.4	6 (10-15)	SPLIT SPOON	54	1.02 / 36.12	**Clayey SILT (CL/ML)** Yellow-orange clayey silt, medium stiff, moist, orange/yellow-orange laminations.	
12	419.4						
13	418.4				40.13 / 425	**SILT (ML)** Lt. gray silt, moist, black/dk gray/Lt gray laminations, slight petroleum odor, some plant remains, cross-bedding.	**VMP-70S** SHALLOW VAPOR PROBE Installed 12.5-13 ft.
14	417.4						
15	416.4						
16	415.4	7 (15-20)	SPLIT SPOON	42	258 / 1302	**Clayey SILT (CL/ML)** Lt. gray clayey silt, medium stiff, moist, coarse sand, Lt. brown/gray laminated cross bedding, occasional orange oxidation laminae.	
17	414.4						
18	413.4				1137 / 7400		VMP-70 (17.5-20) @1053 **VMP-70M** MEDIUM VAPOR PROBE Installed 19.5-20 ft.
19	412.4						
20	411.4					**Silty SAND (SP)** Lt. gray silty sand, massive, moist, loose.	

Continued on Page 2

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

Split spoon samples contained bentonite clay, possibly from former HROST-39.

LAB ANALYSIS:
SOIL: BTEX/MTBE/TPH-GRO & DRO
GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-70
	Project Number:	01005-093-351	
	Boring Location:	Alley between Olive, Forest, & Elm Sts.	*Sheet:* 2 of 2
	Survey Coordinates (ft.):	N - 790119.74 E - 2317496.06	*Date/Time Started:* 01/03/05 0930
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: Brandon Gorte	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/03/05 1158
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Overcast, low 40s	
Drillers: C. Brown and J. Brown	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (431.39 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
21	410.4	8 (20-25)	SPLIT SPOON	48	1672	**SAND (SP), Cont'd.** Lt. gray v. fine-fine grained sand, well sorted, massive, moist, medium stiff, occasional rust lamination, fractured, petroleum hydrocarbon odor.	VMP-70 (25-27.5) @ 1120
22	409.4				>18%	Lt. gray to Lt. brown fine sand	
23	408.4				1794		
24	407.4						
25	406.4				8%		
26	405.4	9 (25-30)	SPLIT SPOON	60	1973	**Silty CLAY (CL)** Lt. gray/Lt. brown laminated silty clay, wet, medium stiff, petroleum hydrocarbon odor.	
27	404.4					**CLAY (CL)** Lt. gray clay, moist, orange oxidation laminae (1/4" diam), mottled, stiff, strong petroleum odor	
28	403.4				1.13% 1910		
29	402.4						
30	401.4				2.67%		
31	400.4	10 (30-35)	SPLIT SPOON	48	1667	Lt. gray clay, massive, moist, mottled, medium stiff, strong petroleum odor.	
32	399.4						
33	398.4				11.50% 1679		
34	397.4					**Silty CLAY (CL)** Lt. gray trace Lt. brown laminated silty clay, moist, mottled, fractured, strong petroleum odor.	
35	396.4				>18%		
36	395.4	11 (35-37)	SPLIT SPOON	18	1600	**SAND (SP)** Lt. brown medium grained sand, well sorted, wet, med stiff, strong petroleum odor. Wet.	
37	394.4				>18%		

End of boring at 37 ft. bgs.

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

Split spoon samples contained bentonite clay, possibly from former HROST-39.

LAB ANALYSIS:
SOIL: BTEX/MTBE/TPH-DRO & GRO
GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-71
	Project Number:	01005-093-351	
	Boring Location:	N.Olive Street, south of Elm Street	*Sheet:* 1 of 2
	Survey Coordinates (ft.):	N - 790175.13 E - 2317665.41	*Date/Time Started:* 12/29/04 1000
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: A. Lock	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 12/29/04 1400
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Sunny, cool, mid-50s	
Drillers: J. Baker and S. Howe	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (430.04 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	429.0	1 (0-2)	HAND AUGER		60	**Asphalt/gravel/chip fill.**	
2	428.0				3240	**CLAY (CL)** Black, silty clay, med plasticity, med stiff, dry/moist.	
3	427.0	2 (2-4)			137		
4	426.0				2666	Change to dark gray, high plasticity	
5	425.0	3 (4-6)			130	Orange mottle begins, moist.	**VMP-71VS** VERY SHALLOW VAPOR PROBE Installed 5.5-6.0 ft.
6	424.0				2540		
7	423.0	4 (6-8)			103		
8	422.0				1990	**Silty CLAY (CL)** Blue-gray silty clay, low plasticity, med stiff, orange mottle, dry/moist.	
9	421.0	5 (8-10)			204	**SILT (ML)** Blue-gray silt, low plasticity, med stiff, orange mottle oxid., dry/moist.	
10	420.0				FO		**VMP-71S** SHALLOW VAPOR PROBE Installed 10-10.5 ft.
11	419.0	6 (10-15)	SPLIT SPOON		440		VMP-71 (10-12.5) @1329
12	418.0						
13	417.0			30	FO / 880		
14	416.0						
15	415.0				7000	**Clayey SILT (CL/ML)** Blue-gray clayey silt, med stiff, orange oxidation lamination, moist/wet.	
16	414.0	7 (15-20)	SPLIT SPOON		790		
17	413.0					Gradual increase in clay content from 16 to 18 ft. Moist.	
18	412.0			54	2.11% / 906		
19	411.0					**Silty CLAY (CL)** Gray silty clay, high plasticity, stiff, moist.	
20	410.0				7.95%		

Continued on Page 2

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)
FO - Flame Out

LAB ANALYSIS:
SOIL: BTEX/MTBE/TPH-DRO & GRO
GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-71
	Project Number:	01005-093-351	
	Boring Location:	N. Olive Street, south of Elm Street	
			Sheet: 2 of 2
	Survey Coordinates (ft.):	N - 790175.13 E - 2317665.41	*Date/Time Started:* 12/29/04 1000
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: A. Lock	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 12/29/2004 1400
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Sunny, cool, mid-50s	
Drillers: J. Baker and S. Howe	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (430.04 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
21	409.0	8 (20-25)	SPLIT SPOON	25	860 / FO	**Silty CLAY (CL)** Gray silty clay, low plasticity, Stiff, orange mottle, moist. Increase in silt content.	
22	408.0						
23	407.0				480 / FO	**SILT (ML)** Gray silt, low plasticity, medium stiff, moist. Gradual change to fine sand at 24 ft.	**VMP-71M** MEDIUM VAPOR PROBE Installed 24-24.5 ft.
24	406.0						
25	405.0					**SAND (SP)** Gray fine grained sand, well sorted, med stiff, moist/wet.	VMP-71 (22.5-25) @ 1325
26	404.0	9 (25-30)	SPLIT SPOON	60	870 / FO	**Silty CLAY (CL)** Gray silty clay, low plasticity, stiff, dry/moist, free phase hydrocarbon product observed on the partings.	
27	403.0						
28	402.0				870 / 1.75%	Change to high plasticity, very stiff, no petroleum hydrocarbon product observed, moist.	
29	401.0						
30	400.0					**Silty SAND (SP)** well sorted medium grained silty sand, moist/wet.	
31	399.0	10 (30-35)	SPLIT SPOON	45	250 / FO	Grades to sand **SAND (SP)** Lt. brown sand, well sorted, loose, wet.	
32	398.0						
33	397.0				400 / FO		
34	396.0						
35	395.0					Color change to red.	

End of boring at 35 ft. below ground surface.

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)
FO = Flame out.

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-DRO & GRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-72
	Project Number:	01005-093-351	
	Boring Location:	Forest Street east of Old St. Louis Road	
			Sheet: 1 of 2
	Survey Coordinates (ft.):	N - 789986.59 E - 2316346.17	*Date/Time Started:* 12/27/04 1100
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: Adam Lock	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 12/27/04 1430
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Sunny, cold, low 20s	
Drillers: J. Barker and S. Howe	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (428.18 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	427.2	1 (0-2)	HAND AUGER		0.0	**BITUMINOUS ASPHALT** (Roadway)-6 in. degraded/broken asphalt.	
2	426.2				0.0	**SILTY CLAY (CL)** Lt. brown silty clay, low plasticity, soft, dry/moist.	
3	425.2	2 (2-4)			0.0		
4	424.2				0.0	Change to med. plasticity.	**VMP-72VS** VERY SHALLOW VAPOR PROBE
5	423.2	3 (4-6)			0.0	**Clayey SILT (CL-ML)** Lt. brown clayey silt, low plasticity, soft, dry/moist.	Installed 4-4.5 ft.
6	422.2				0.0		VMP-72 (4-6) @1342
7	421.2	4 (6-8)			0.0	Change to med plasticity.	
8	420.2				0.0	**SILT (ML)** Lt. brown silt, low plasticity, soft, low density.	**VMP-72S** SHALLOW VAPOR PROBE
9	419.2	5 (8-10)			0.0	**SILTY CLAY (CL)**. Lt. brown with gray mottling, med plasticity, stiff.	Installed 8-8.5 ft.
10	418.2				0.0	**SILT (ML)** Lt. brown silt with fine-grained sand, well sorted.	
11	417.2	6 (10-15)	SPLIT SPOON		0.0		
12	416.2			50			
13	415.2				0.0		
14	414.2				0.0		
15	413.2				0.0	**CLAY (CL)** 3 in. seam, stiff, orange mottling. **SAND (SP)**.	**VMP-72M** MEDIUM VAPOR PROBE
16	412.2	7 (15-20)	SPLIT SPOON		0.0	Lt. brown, fine-grained sand, well sorted.	Installed 15.5-16 ft.
17	411.2						
18	410.2			50	0.0		
19	409.2				0.0	Begin black laminations in tan/light brown sand.	
20	408.2				0.0		

Continued on Page 2

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:
SOIL: BTEX/MTBE/TPH-GRO & DRO
GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-72
	Project Number:	01005-093-351	
	Boring Location:	Forest Street east of Old St. Louis Road	
			Sheet: 2 of 2
	Survey Coordinates (ft.):	N - 789986.59 E - 2316346.17	*Date/Time Started:* 12/27/04 1029
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: Adam Lock	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 12/27/04 1200
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Sunny, cold, low 20s	
Drillers: C. Brown and J. Brown	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (430.32 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
21	407.2	8 (20-25)	SPLIT SPOON	30	0.0	**SAND (SP), Cont'd.** Fine gray sand with brown and black laminations, dry/moist.	
22	406.2				0.0		
23	405.2				0.0		
24	404.2						
25	403.2				0.0		**VMP-72D** DEEP VAPOR PROBE Installed 25.5-26 ft.
26	402.2	9 (25-30)	SPLIT SPOON	58	0.0		
27	401.2						VMP-72 (25-26) @ 1330
28	400.2				0.0	Moist	
29	399.2				0.0		
30	398.2				0.0	Moist/Wet	

End of Boring at 30 ft. below ground surface

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-DRO & GRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-73
	Project Number:	01005-093-351	
	Boring Location:	Northeast corner of Forest & Delmar	*Sheet:* 1 of 2
	Survey Coordinates (ft.):	N - 789982.16 E - 2316846.51	*Date/Time Started:* 12/27/04 1029
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: Brandon Gorte	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 12/27/04 1200
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Sunny, cold, low 20s	
Drillers: C. Brown and J. Brown	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (431.69 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
						BITUMINOUS ASPHALT (Roadway)-8 in.	
1	430.7	1 (0-1)	HAND AUGER		0.09 / 0.14	**CLAY (CL)** Olive gray clay, dry, soft.	
2	429.7						
3	428.7						
4	427.7						**VMP-73VS** VERY SHALLOW VAPOR PROBE Installed 4.5-5 ft.
5	426.7	2 (4-5)			0.09 / 0.0	Yellow-orange, clay, dry, soft.	
6	425.7	3 (5-6)			0.16 / 0.0	**CLAY (CL),** yellow-orange, mottled, moist, soft. Olive gray with yellow orange mottling, very stiff, moist, petroleum odor.	
7	424.7	4 (6-7)			3.90 / 25.03		**VMP-73S** SHALLOW VAPOR PROBE Installed 7.5-8 ft.
8	423.7	5 (7-8)			6.02 / 26.73		
9	422.7						
10	421.7	6 (8-10)			8.6 / 43.03	Slight petroleum odor.	
11	420.7		SPLIT SPOON		2.41 / 11.26	**Silty SAND (SM)** Lt. gray, v. fine-fine grained, silty sand, med. stiff, well sorted, moist.	
12	419.7						
13	418.7	7 (10-15)		55	8.04 / 64	**SAND (SP)** Lt. gray, v. fine-fine grained sand, med. stiff, well sorted, moist.	
14	417.7						
15	416.7						
16	415.7		SPLIT SPOON		8.50 / 73	Lt. brown fine sand with trace rounded fine gravel, cross-bedded.	
17	414.7			50			
18	413.7	8 (15-20)			19.47 / 123		**VMP-73M** MEDIUM VAPOR PROBE Installed 18.5-19.0 ft.
19	412.7						
20	411.7						VMP-73 (17.5-20) @ 1128

Continued on Page 2

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:
SOIL: BTEX/MTBE/TPH-DRO & GRO
GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-73
	Project Number:	01005-093-351	
	Boring Location:	Northeast corner of Forest & Delmar	
			Sheet: 2 of 2
	Survey Coordinates (ft.):	N - 789982.16 E - 2316846.51	*Date/Time Started:* 12/27/04 1029
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: Brandon Gorte	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 12/27/04 1200
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Sunny, cold, low 20	
Drillers: C. Brown and J. Brown	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (431.69 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
21	410.7	9 (20-25)	SPLIT SPOON	60	41.64	**SAND (SP), Cont'd.**	
22	409.7						
23	408.7				351 / 723		
24	407.7					Strong petroleum odor.	
25	406.7				1.24%		
26	405.7	10 (25-28.5)	SPLIT SPOON	40	700	Fine (1/8 in. to 1/4 in. thick), Gray and black laminations.	
27	404.7						**VMP-73D** DEEP VAPOR PROBE
28	403.7				3%	Coarse grain sand.	Installed 27.5-28 ft.
	402.7					Refusal at 28.5 ft.	VMP-73 (27-28) @ 1156

End of Boring at 28.5 ft. below ground surface

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: none submitted

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-74
	Project Number:	01005-093-351	
	Boring Location:	Market Street north of Forest Street	*Sheet:* 1 of 2
	Survey Coordinates (ft.):	N - 789986.81 E - 2317014.72	*Date/Time Started:* 01/03/05 0930
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: A. Lock	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/03/05 1150
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Cold, rain, mid 40s	
Drillers: J. Baker and S. Howe	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (431.45 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	430.5	1 (0-2.5)	HAND AUGER		-0.02	**Fill** Black silty clay fill , low plasticity, dry/moist, trace gravel.	
2	429.5						
3	428.5	2 (2.5-5)			1.66	**Silty CLAY (CL)** Tan silty clay, low plasticity, medium stiff, dry/moist.	
4	427.5				0.09		
5	426.5				1.8		
6	425.5	3 (5-7.5)			0.10	**SILT (ML)** Tan silt, low plasticity, medium stiff, dry/moist.	**VMP-74VS** VERY SHALLOW VAPOR PROBE Installed 6-6.5 ft.
7	424.5						
8	423.5				1.89	**Silty CLAY (CL)** Tan silty clay, med-high plasticity, medium stiff dry/moist, gray and orange mottle.	
9	422.5	4 (7.5-10)			0.0		
10	421.5				1.02	Change to gray color with orange mottle at 9.5 ft.	
11	420.5	5 (10-15)	SPLIT SPOON		18.58		
12	419.5						
13	418.5			58	40.95 / 770		
14	417.5						
15	416.5				1391	**SAND (SP)** Gray fine-grained sand, well sorted, stiff, dry/moist, orange mottle, odor. Orange and brown laminants begin at 15 ft.	**VMP-74M** MEDIUM VAPOR PROBE Installed 15-15.5 ft.
16	415.5	6 (15-20)	SPLIT SPOON		1056		VMP-74 (15-17.5) @ 1126
17	414.5						
18	413.5			60	4.02% / 1138		
19	412.5						
20	411.5				3.05%		

Continued on Page 2

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:
SOIL: BTEX/MTBE/TPH-DRO & GRO
GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-74
	Project Number:	01005-093-351	
	Boring Location:	North of Forest & Market Street	
			Sheet: 2 of 2
	Survey Coordinates (ft.):	N - 789986.81 E - 2317014.72	*Date/Time Started:* 1/3/05 0930
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: A. Lock	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 1/3/05 1150
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Cold, rain, mid 40s	
Drillers: J. Baker and S. Howe	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (in 431.45 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
21	410.5	7 (20-25)	SPLIT SPOON	28	1080	**SAND (SW), Cont'd.** Moist.	
22	409.5						
23	408.5				9.09%	Gray silt with orange mottle (6 in. thick) layer.	
					978		
24	407.5						**VMP-74D** DEEP VAPOR PROBE Installed 24-24.5 ft.
25	406.5				18.24%		VMP-74 (22.5-25) @ 1135

End of Boring at 25 ft. below ground surface

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-DRO & GRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-75
	Project Number:	01005-093-351	
	Boring Location:	N. Olive Street north of Forest Street	
			Sheet: 1 of 2
	Survey Coordinates (ft.):	N - 790035.48 E - 2317697.93	*Date/Time Started:* 12/29/04 1430
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: Adam Lock	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 12/29/04 1700
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Sunny, cool, mid 40s	
Drillers: J. Barker and S. Howe	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (429.87 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
					14.2	**BITUMINOUS ASPHALT** (Roadway)-6 in. asphalt, chipped rock fill.	
1	428.9	1 (0-2)	HAND AUGER		1139	**Fill** Black silty clay (Fill), low plasticity, soft, dry/moist.	
2	427.9						
3	426.9	2 (2-4)			53.8		
4	425.9				2958		
5	424.9	3 (4-6)			50.4	**Silty CLAY (CL)** Gray silty clay, med plasticity, orange mottles, oxidation, dry/moist.	**VMP-75VS** VERY SHALLOW VAPOR PROBE Installed 5-5.5 ft.
6	423.9				2196		
7	422.9	4 (6-8)			63.1	**Clayey SILT (CL/ML)** Tan, clayey silty, low plasticity, stiff, dry/moist.	
8	421.9				3632		
9	420.9	5 (8-10)			83	Gray with orange mottles.	
10	419.9				1640		
11	418.9	6 (10-15)	SPLIT SPOON		196	**SILT (ML)** Gray silt, soft, moist.	
12	417.9						
13	416.9				1.93%		**VMP-75S** SHALLOW VAPOR PROBE Installed 13-13.5 ft.
14	415.9			26	207		
15	414.9				FO		VMP-75 (12.5-15) @ 1644
16	413.9	7 (15-20)	SPLIT SPOON	60	269	**Clayey SILT (CL/ML)** - Gray, med stiffness, wet.	
17	412.9					**Silty CLAY (CL)** Gray silty clay, low plasticity, orange mottles, moist.	
18	411.9				7271		
19	410.9				363	High plasticity.	
20	409.9				1.93%	Gray silt layer (6 in.).	

Continued on Page 2

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)
FO - Flame Out.

LAB ANALYSIS:
SOIL: BTEX/MTBE/TPH-GRO & DRO
GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-75
	Project Number:	01005-093-351	
	Boring Location:	N. Olive Street north of Forest Street	
			Sheet: 2 of 2
	Survey Coordinates (FT.):	N - 790035.48 E - 2317697.93	*Date/Time Started:* 12/29/04 1430
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: Adam Lock	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 12/29/04 1700
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Sunny, cool, mid 40s	
Drillers: J. Barker and S. Howe	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (429.87 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
21	408.9	8 (20-25)	SPLIT SPOON	60	244	**SILT (ML)** Gray silt, low plasticity, orange mottles, moist, soft.	VMP-75 (20-22.5) @ 1637 **VMP-75M** MEDIUM VAPOR PROBE Installed 21.5-22 ft.
22	407.9						
23	406.9				4.08%	**SAND (SP)** Fine grained, well sorted.	
24	405.9				293	**SILT (ML)** Gray silt, as above. Wet at 23.5 ft. (3 in.)	
25	404.9				4.69%	**Silty CLAY (CL)** Gray with orange mottle, moist @ 23.75 ft. **Clayey SILT (CL/ML)** Gray with orange mottle, med plastic, moist.	
26	403.9	9 (25-30)	SPLIT SPOON	60	217	**Silty CLAY (CL)** Gray silty clay, low plasticity, orange mottle, moist, free phase hydrocarbons present within partings.	
27	402.9						
28	401.9				FO 37	Change to very high plasticity, very stiff @ 28 ft.	
29	400.9						
30	399.9				354	Moist/Wet	
31	398.9	10 (30-35)	SPLIT SPOON		170		
32	397.9					Some black laminations (6 in.). Moist/wet.	
33	396.9				FO	**SAND (SP)**	
34	395.9			28	290	Gray, medium grained sand, well sorted, saturated, hydrocarbon odor.	
35	394.9				FO		

End of boring at 35 ft. below ground surface.

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)
FO - Flame Out.

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-DRO & GRO

GROUNDWATER: none submitted

Client:	**HARTFORD WORKING GROUP**		***BORING ID:*** VMP-76
Project Number:	01005-093-351		
Boring Location:	Forest Street 10 ft west of N. Olive Street		*Sheet:* 1 of 2
Survey Coordinates (ft.):	N - 789979.23	E - 2317672.99	*Date/Time Started:* 12/29/04 1345
Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)		
Logged By: Brandon Gorte	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 12/29/04 1615
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Sunny, 60s	
Drillers: C. Brown and J. Brown	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (429.45 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
					21.65	**BITUMINOUS ASPHALT** (Roadway)-8 in.	
1	428.5	1 (0-2)	HAND AUGER		716	**Fill** Dk gray silty clay fill, non plastic, massive, dry/moist, soft.	
2	427.5						
3	426.5	2 (2-4)			61.3 / 1933		
4	425.5						**VMP-76VS** VERY SHALLOW VAPOR PROBE Installed 4.5-5 ft.
5	424.5	3 (4-6)			37.04 / 1005	**Silty CLAY (CL)** Olive gray silty clay, med plasticity, orange oxidation spots (1/16 in.), moist, medium stiffness, slight petroleum odor.	
6	423.5						
7	422.5	4 (6-8)			51.74 / 1972	**Clayey SILT (CL/ML)** Dark gray clayey silt, n.plastic, unoxidized, dry/moist, occasional petroleum staining-greenish color and odor, soft.	
8	421.5						
9	420.5	5 (8-10)			237 / 8000	**SILT (ML)** Dark gray silt, n.plastic, unoxidized, dry/moist, occasional petroleum staining-greenish color and odor, soft.	
10	419.5						**VMP-76S** SHALLOW VAPOR PROBE Installed 10.5-11 ft.
11	418.5	6 (10-15)	SPLIT SPOON		345 / FO	Dark gray silt, n.plastic, orange oxidation spots (1/4 in.), dry/moist, occasional petroleum staining-greenish color and odor, soft.	
12	417.5						
13	416.5			31	666 / FO	Olive gray silt, n. plastic, strong petroleum odor, wet, soft.	
14	415.5						
15	414.5					Laminated yellow-orange & Lt. gray silt, wet. Mineralized burrow structures.	
16	413.5	7 (15-20)	SPLIT SPOON		962 / FO	**Clayey SILT (CL/ML)** Lt. gray clayey silt, med plastic, moist, orange-rust oxidation (1/4 in. thick) laminations, strong petroleum hydrocarbon odor.	VMP-76 (15-17.5) @ 1454
17	412.5			44			
18	411.5				904	**Clayey SILT (CL/ML)** Lt. gray clayey silt, med plasticity, cohesive, stiff, orange oxidation spots-1/3 in. diam, moist, strong petroleum hydrocarbon odor.	
19	410.5						
20	409.5				FO	**SILT (ML)** Lt. gray silt, non plastic, orange-oxidation spots (1/4 in.), moist, soft.	

Continued on Page 2

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per milli
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)
FO - Flame Out.

LAB ANALYSIS:
SOIL: BTEX/MTBE/TPH-DRO & GRO
GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-76
	Project Number:	01005-093-351	
	Boring Location:	Forest Street 10 ft west of N. Olive Street	
			Sheet: 2 of 2
	Survey Coordinates (ft.):	N - 789979.23 E - 2317672.99	*Date/Time Started:* 12/29/04 1345
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: Brandon Gorte	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 12/29/04 1615
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Sunny, 60s	
Drillers: C. Brown and J. Brown	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (429.45 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
21	408.5	8 (20-25)	SPLIT SPOON	30	735	**SAND (SP)** Lt. brown silty sand, v. fine grained, well sorted, moist, strong hydrocarbon odor.	**VMP-76M** MEDIUM VAPOR PROBE Installed 21-21.5 ft.
22	407.5				FO		VMP-76(20-22.5) @ 1505
23	406.5				968	Orange and Lt. brown laminations, strong hydrocarbon odor.	
24	405.5						
25	404.5				FO	**Silty CLAY (CL)** Lt. gray silty clay, med plasticity, cohesive, moist, orange colored oxidation laminations, soft, strong petroleum hydrocarbon odor.	
26	403.5	9 (25-30)	SPLIT SPOON	40	960		
27	402.5					Lt. gray silty clay, med plasticity, cohesive, massive, moist, oxidatized laminations, soft.	
28	401.5				FO 666		
29	400.5					**CLAY (CL)** Lt. gray clay, med plasticity, cohesive, massive, moist, with oxidized laminations, very stiff, strong petroleum odor.	
30	399.5				FO		**VMP-76D** DEEP VAPOR PROBE Installed 30.5-31 ft.
31	398.5	10 (30-35)	SPLIT SPOON		570	**SAND (SP)** Lt. brown fine-medium grained sand, med dense, massive, well sorted, moist, with thin beds (1 in. thick) of soft silt, strong petroleum odor.	
32	397.5				FO		
33	396.5					Wet at 33 ft. bgs.	
34	395.5			25			
35	394.5						

End of Boring at 35 ft. below ground surface

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)
FO - Flame Out.

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-DRO & GRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-77
	Project Number:	01005-093-351	
	Boring Location:	N. Delmar, between Forest and Watkins Streets	*Sheet:* 1 of 2
	Survey Coordinates (ft.):	N - 789817.20 E - 2316808.57	*Date/Time Started:* 01/11/05 1530
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: Adam Lock	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/12/05 1130
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Partly sunny, mid 50s-low 60s	
Drillers: C. Brown and S. Howe	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (431.32 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	430.3	1 (0-2.5)	HAND AUGER		9.5	**Concrete** (4 in.) and **Chip Fill**	
2	429.3					**Silty CLAY (CL)** Black silty clay, low plasticity, dry/moist, soft.	
3	428.3	2 (2.5-5)			180	**Clayey SAND (SC)** Tan clayey fine sand, med density, dry/moist.	
4	427.3				16.7	**SAND (SP)** Tan fine grained sand, dry/moist, loose.	**VMP-77VS** VERY SHALLOW VAPOR PROBE Installed 4.5-5 ft.
5	426.3				1045		
6	425.3	3 (5-7.5)			96.2		VMP-77 (2.5-5) @1020
7	424.3						
8	423.3	4 (7.5-10)			890	**Silty CLAY (CL)** Lt. gray silty clay, med plasticity, dry/moist, med stiffness. Orange mottle.	
9	422.3				116		
10	421.3				1230		
11	420.3	5 (10-12.5)	SPLIT SPOON	60	0.0	At 10.5 ft., fine sand seam (4 in. thick).	
12	419.3				0.0	**CLAY (CL)** Dark gray clay, low plasticity, dry/moist, stiff, orange mottles.	
13	418.3	6 (12.5-15)			132		
14	417.3					Change to Lt. gray with orange mottles.	
15	416.3				1680		
16	415.3	7 (15-17.5)	SPLIT SPOON		184	**Silty Clay (CL)** Gray silty clay, low plasticity, dry/moist, low density, orange mottles.	
17	414.3						
18	413.3				1964	Gradual change to **clayey SILT**.	
19	412.3	8 (17.5-20)		24	648	Gradual change to **SILT**	
20	411.3				1.30%	Gradual change to fine **SAND**.	

Continued on Page 2

NOTES: AMSL = Above mean sea level
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FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:
SOIL: BTEX/MTBE/TPH-GRO & DRO
GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-77
	Project Number:	01005-093-351	
	Boring Location:	N. Delmar, between Forest and Watkins Streets	
			Sheet: 2 of 2
	Survey Coordinates (ft.):	N - 789817.20 E - 2316808.57	*Date/Time Started:* 01/11/05 1530
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: Adam Lock	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/12/05 1130
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Partly sunny, mid 50s/low 60s	
Drillers: C. Brown and S. Howe	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (431.32 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
21	410.3	9 (20-22.5)	SPLIT SPOON		480	**SAND (SP)** Lt. brown with orange brown laminations, fine grained, sand, well sorted, dry, high density.	**VMP-77M** - MEDIUM VAPOR PROBE Installed 20.5-21 ft.
22	409.3				6148		VMP-77 (20-22.5) @1010
23	408.3	10 (22.5-25)		24	390		
24	407.3						
25	406.3				2413		
26	405.3	11 (25-27.5)	SPLIT SPOON		1129		
27	404.3				8.40%		
28	403.3	12 (27.5-30)			2413		**VMP-77D** DEEP VAPOR PROBE Installed 28-28.5 ft.
29	402.3			24		Change to more medium grained sand.	
30	401.3				FO		

End of boring at 30 ft. below ground surface.

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)
FO - Flame Out.

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-DRO & GRO

GROUNDWATER: none submitted

Client:	**HARTFORD WORKING GROUP**		***BORING ID:*** VMP-78
Project Number:	01005-093-351		
Boring Location:	Alley North of Church on Watkins Street		*Sheet:* 1 of 2
Survey Coordinates (ft.):	N - 789813.23	E - 2317166.09	*Date/Time Started:* 01/04/05 0845
Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)		
Logged By: Brandon Gorte	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/04/05 0950
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Overcast, low 40s	
Drillers: C. Brown and J. Brown	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (431.28 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	430.3	1 (0-2)	HAND AUGER		0.23	**Asphalt** (6 in. thick)	
2	429.3				1.3	**Fill** Dk gray silty clay, low plasticity, moist, soft.	
3	428.3	2 (2-4)			0.05	**Silty CLAY (CL)** Lt. brown silty clay, low plasticity, massive, moist, soft, trace plant remains.	
4	427.3				1.43	**Silty SAND (SP/ML)** Lt. brown silty sand, fine to v. fine grained, well sorted, moist, soft, cross bedded.	**VMP-78VS** VERY SHALLOW VAPOR PROBE Installed 4-4.5 ft.
5	426.3	3 (4-6)			0.13		
6	425.3				1.76	**Clayey SILT (CL/ML)** Lt. brown clayey silt, low plasticity, massive, moist, soft.	
7	424.3	4 (6-8)			-0.19	**CLAY (CL)** Lt. brown/yellow-orange clay, med plastic, cohesive, mottled, moist, unoxidized, trace gravel (1/4 in. diam), stiff.	
8	423.3				1.46		
9	422.3	5 (8-10)			0.01	Lt. gray clay, orange oxidation spots, trace organic/plant remains.	
10	421.3				1.43		
11	420.3	6 (10-15)	SPLIT SPOON		1.95		**VMP-78S** SHALLOW VAPOR PROBE Installed 11.5-12 ft.
12	419.3			44		**Clayey SILT (CL/ML)** Laminated, sandy clayey silt.	
13	418.3				16.3		
14	417.3				14.4		
15	416.3				71.65	**Silty SAND (SP)** Lt. gray/Lt. brown silty sand, well sorted, v. fine to fine grained, med density, moist, laminated, fractured.	**VMP-78M** MEDIUM VAPOR PROBE Installed 15.5-16 ft.
16	415.3	7 (15-20)	SPLIT SPOON		43		
17	414.3				182	**SAND (SP)** Grey sand, fine-med grained, well sorted, moist.	VMP-78 (15.5-17) @ 930
18	413.3			56	467	Black laminations (17 to 18.5 ft.). Cross bedding below 17 ft. Petroleum odor.	
19	412.3						
20	411.3				2371		

Continued on Page 2

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:
SOIL: BTEX/MTBE/TPH-GRO & DRO
GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-78
	Project Number:	01005-093-351	
	Boring Location:	Alley North of Church on Watkins Street	
			Sheet: 2 of 2
	Survey Coordinates (ft.):	N - 789813.23 E - 2317166.09	*Date/Time Started:* 01/04/05 0845
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: Brandon Gorte	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/04/05 0950
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Overcast, low 40s	
Drillers: C. Brown and J. Brown	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (431.28 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
21	410.3	8 (20-25)	SPLIT SPOON	48	1435	**SAND (SP)** Sand, petroleum odor.	
22	409.3						
23	408.3				3.58% / 1465		
24	407.3					Black silt, moist, petroleum odor.	**VMP-78D** DEEP VAPOR PROBE Installed 24-24.5 ft.
25	406.3				3%		VMP-78 (22.5-25) @ 943

End of boring at 25 ft. below ground surface.

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-DRO & GRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-79
	Project Number:	01005-093-351	
	Boring Location:	West end of Watkins Street	*Sheet:* 1 of 2
	Survey Coordinates (ft.):	N -789658.57 E - 2316338.41	*Date/Time Started:* 12/30/04 0928
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: Adam Lock	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 12/30/04 1420
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Cool, mid 40-low 60s	
Drillers: J. Barker and S. Howe	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (428.67 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
					1.0	**BITUMINOUS ASPHALT** (Roadway)-6 in. asphalt, chipped rock fill.	
1	427.7	1 (0-2.5)	HAND AUGER			**CLAY (CL)** Black clay med plasticity, med stiffness, dry/moist.	
2	426.7				13.1		
3	425.7	2 (2.5-5)			1.2	Change at 3 ft., tan clay, med plasticity, med stiffness, dry/moist, few orange mottles, oxidation.	
4	424.7						
5	423.7				9.2		
6	422.7	3 (5-7.5)			0.8		
7	421.7				7.5	Increase of silt begins at 7 ft.	**VMP-79VS** VERY SHALLOW VAPOR PROBE Installed 7-7.5 ft.
8	420.7	4 (7.5-10)			0.9	Increase of gray and orange mottles at 8 ft.	
9	419.7						
10	418.7				6.7		
11	417.7	5 (10-15)	SPLIT SPOON		4.8		
12	416.7						
13	415.7			50	7.4	Increase in silt content.	
14	414.7				4.6	**SAND (SP)** Lt. brown fine-grained sand, dry, brown laminations, loose.	
15	413.7				12.2		**VMP-79M** MEDIUM VAPOR PROBE Installed 15-15.5 ft.
16	412.7	6 (15-20)	SPLIT SPOON		3.0	Laminations absent.	VMP-79 (15-17.5) @ 1400
17	411.7						
18	410.7			45	23.2	Orange mottles.	
19	409.7				2.9	Dark brown laminations.	
20	408.7				13		

Continued on Page 2

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:
SOIL: BTEX/MTBE/TPH-GRO & DRO
GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-79
	Project Number:	01005-093-351	
	Boring Location:	West end of Watkins Street	*Sheet:* 2 of 2
	Survey Coordinates (ft.):	N -789658.57 E - 2316338.41	*Date/Time Started:* 12/30/04 0928
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: Adam Lock	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 12/30/04 1420
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Cool, mid 40-low 60s	
Drillers: J. Barker and S. Howe	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (428.67 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
21	408.7	7 (20-25)	SPLIT SPOON	58	244	**Interbedded SILT and SAND (ML-SP)** Gray silt, dry, loose. Fine sand, dark gray, dry, loose.	VMP-79 (22.5-25) @1410 **VMP-79D** DEEP VAPOR PROBE Installed 24-24.5 ft.
22	407.7					**SAND (SP)** Dark gray, fine-grained sand, dry, loose.	
23	406.7				4.08% 293		
24	405.7						
25	404.7				4.69%		

End of boring at 25 ft. below ground surface.

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-DRO & GRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-80
	Project Number:	01005-093-351	
	Boring Location:	West side of Market Street 20 ft north of Watkins Street	*Sheet:* 1 of 2
	Survey Coordinates (ft.):	N -789715.40 E - 2317013.83	*Date/Time Started:* 12/30/04 1130
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: B. Gorte	*Checked By:*	J. Petruccione	*Date/Time Finished:* 12/30/04 1400
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Overcast, warm, low 60s	
Drillers: C. Brown and J. Brown	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (430.71 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	429.7	1 (0-2)	HAND AUGER		0.07 / 17	**Fill** Dark gray silty clay, low plasticity, massive, dry, loose/soft.	
2	428.7						
3	427.7	2 (2-4)			3.18 / 184		
4	426.7						**VMP-80VS** VERY SHALLOW VAPOR PROBE Installed 4.5-5.0 ft.
5	425.7	3 (4-6)			0.01 / 41.25	**Clayey SILT (CL/ML)** Lt. gray clayey silt, non plastic, massive, dry/moist, soft.	
6	424.7						
7	423.7	4 (6-8)			23.94 / 186	**Sandy SILT (ML)** Lt. gray sandy silt, non plastic, massive, moist, soft/loose.	VMP-80 (6-8) @ 1148
8	422.7						
9	421.7	5 (8-10)			6.45 / 103	**Silty CLAY (CL)** Lt. gray silty clay, med plasticity, wet/moist, medium stiffness, occasional orange oxidation spots (approx 1/16 in. diam), slight petroleum odor.	
10	420.7						
11	419.7	6 (10-15)	SPLIT SPOON	60	6.47 / 70.12	**CLAY (CL)** Lt. gray clay, med plastic, cohesive, trace coarse sand, moist, stiff. Trace silty clay, 1/8 in. diam orange oxidation spots.	
12	418.7						
13	417.7				8.23 / 80		
14	416.7						
15	415.7						
16	414.7	7 (15-20)	SPLIT SPOON		52.14 / 159		**VMP-80S** SHALLOW VAPOR PROBE Installed 16-16.5 ft.
17	413.7			44		**Silty Sandy CLAY (CL)** Lt. gray, silty, sandy clay, med to high plasticity, moist, soft-medium stiffness, orange oxidation spots (1/4 in. diam), mottled, laminated Lt. brown & Lt. gray layers.	
18	412.7				63.37 / 426		
19	411.7						
20	410.7						

Continued on Page 2

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:
SOIL: BTEX/MTBE/TPH-DRO & GRO
GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-80
	Project Number:	01005-093-351	
	Boring Location:	West side of Market Street 20 ft north of Watkins Street	*Sheet:* 2 of 2
	Survey Coordinates (ft.):	N -789715.40 E - 2317013.83	*Date/Time Started:* 12/30/04 1130
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: B. Gorte	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 12/30/04 1400
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Overcast, warm, low 60s	
Drillers: C. Brown and J. Brown	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (430.71 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
21	409.7	8 (20-25)	SPLIT SPOON	46	91	**SAND (SP)** Lt. gray sand, v. fine-fine grained, well sorted, non plastic, moist, Lt. brown, Lt. gray and black laminations (1/16 in. thick).	**VMP-80M** MEDIUM VAPOR PROBE Installed 21-21.5 ft.
22	408.7						
23	407.7				509		
24	406.7				1062	Medium grained, well sorted, med dense, yellow-orange sand.	
25	405.7				2800	Laminated Lt. brown, yellow-orange and black. Occasional 1/2 in.-1 in. thick, Lt. brown silt, non plastic, moist, soft layers. Petroleum odors.	
26	404.7	9 (25-30)	SPLIT SPOON	36	1841		
27	403.7						
28	402.7				7% 1768		VMP-80 (27.5-30) @1320
29	401.7						**VMP-80D** DEEP VAPOR PROBE Installed 29.5-30 ft.
30	400.7				8%		

End of Boring at 30 ft. below ground surface

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-DRO & GRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-81
	Project Number:	01005-093-351	
	Boring Location:	123 E. Watkins Street	*Sheet:* 1 of 2
	Survey Coordinates (ft.):	N - 789664.80 E - 2317316.50	*Date/Time Started:* 12/30/04 0836
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: Brandon Gorte	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 12/30/04 0940
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Overcast, low 60s	
Drillers: J. Barker and S. Howe Joey, Chris John	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (430.41 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	429.4	1 (0-2)	HAND AUGER		-1.68 / -1.1	**FILL** Brown silty clay, low plasticity, massive, dry/moist, soft.	
2	428.4						
3	427.4	2 (2-4)			-1.52 / -0.69	**Sandy SILT (ML)** Lt. brown sandy silt, non plastic, massive, dry/moist, soft.	**VMP-81VS** VERY SHALLOW VAPOR PROBE Installed 3.5-4 ft.
4	426.4						
5	425.4	3 (4-6)			-1.49 / -0.79	**Silty CLAY (CL)** Lt. brown-yellow orange, silty clay, med plastic, moist, soft, orange oxidation spots 1/8 in. diam.	
6	424.4						
7	423.4	4 (6-8)			-1.44 / 0.09	**CLAY (CL)** Lt. Brown/yellow-orange clay, med plastic, cohesive, moist, stiff, orange oxidation spots-1/8 in. diam.	
8	422.4						
9	421.4	5 (8-10)			-1.68 / -1.39		
10	420.4						
11	419.4	6 (10-15)	SPLIT SPOON	40	-0.18 / 7.81	**Clayey SILT (CL/ML)** Lt. gray clayey silt, moist, orange oxidation, medium plasticity, laminations (1/8 in. thick).	
12	418.4						
13	417.4				2.2 / 22.2		**VMP-81S** SHALLOW VAPOR PROBE Installed 13-13.5 ft.
14	416.4						
15	415.4						
16	414.4	7 (15-20)	SPLIT SPOON		20.12 / 148	**SAND (SP)** Lt. gray v. fine-fine grained sand, well sorted, med dense, moist, with Lt. brown & black laminations (1/16 in. - 1/8 in. thick).	
17	413.4			48			**VMP-81M** MEDIUM VAPOR PROBE Installed 16.5-17 ft.
18	412.4				9.78 / 67.18		VMP-81 (15-17.5) @ 910
19	411.4						
20	410.4						

Continued on Page 2

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:
SOIL: BTEX/MTBE/TPH-GRO & DRO
GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-81
	Project Number:	01005-093-351	
	Boring Location:	123 E. Watkins Street	*Sheet:* 2 of 2
	Survey Coordinates (ft.):	N - 789664.80 E - 2317316.50	*Date/Time Started:* 12/30/04 0836
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: Brandon Gorte	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 12/30/04 0940
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Overcast, low 60s	
Drillers: C. Brown and J. Brown	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (430.41 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
21	409.4	8 (20-25)	SPLIT SPOON	42	167 / 802	**SAND (SP), Cont'd.** Slight petroleum odor.	
22	408.4						
23	407.4				237 / 1237	Slight petroleum odor.	
24	406.4						
25	405.4						**VMP-81D** DEEP VAPOR PROBE Installed 25.5-26 ft.
26	404.4	9 (25-30)	SPLIT SPOON	42	1936 / 16%	**SAND (SP)** Lt. brown-gray fine-medium grained sand, well sorted, moist, med dense, some gray black, lt. brown laminations & gray silt layers (1/2 in.-1 in.) thick. Strong petroleum odor.	
27	403.4						
28	402.4				2101 / 30%	Strong petroleum odor.	VMP-81 (27.5-30) @ 0936
29	401.4						
30	400.4						

End of Boring at 30 ft. below ground surface

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-DRO & GRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-82
	Project Number:	01005-093-351	
	Boring Location:	West side of Old St. Louis Road, at intersection of W. Maple Street	*Sheet:* 1 of 2
	Survey Coordinates (ft.):	N - 789315.59 E - 2316057.58	*Date/Time Started:* 01/10/05 0817
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: Brandon Gorte	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/10/05 0950
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Overcast, upper 30s	
Drillers: C. Brown and J. Brown	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (427.08 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	426.1	1 (0-2)	HAND AUGER		0.52	**Aspalt (8 in.)**	
2	425.1				0.77	**Clayey SILT (CL/ML) - Fill** Dark gray clayey silt fill, no plasticity, dry/moist, soft, some root structures, massive.	
3	424.1	2 (2-4)			0.44	**Silty CLAY (CL)** Dark gray silty clay, low plasticity, moist, soft, some orange rust spots. Lt. brown silty clay, moist, medium plasticity, plant remains.	
4	423.1				0.22		**VMP-82VS** VERY SHALLOW VAPOR PROBE Installed 4.5-5 ft.
5	422.1	3 (4-6)			0.41		
6	421.1				0.94	**Sandy Silty CLAY (ML/CL)** Lt. brown sandy silty clay, med plasticity, cohesive, moist, orange rust spots, plant remains.	
7	420.1	4 (6-8)			0.42		
8	419.1				1.16	**Silty SAND (SM)** Lt. brown/yellow-orange laminated v. fine grained sand, well sorted, moist, loose, some plant remains.	
9	418.1	5 (8-10)			0.34		
10	417.1				0.87	**SAND (SP)** Fine-med grained sand (similar to above), no silt, well sorted, moist, fewer organics, some black organics.	**VMP-82S** SHALLOW VAPOR PROBE Installed 10.5-11 ft.
11	416.1	6 (10-12.5)	SPLIT SPOON		1.90		
12	415.1			44			VMP-82 (10-12.5) @ 922
13	414.1	7 (12.5-15)			21.65 1.40		
14	413.1						
15	412.1				17.5		
16	411.1	8 (15-17.5)	SPLIT SPOON		0.24	Crossbedding.	
17	410.1						
18	409.1			36	1.23 0.29		
19	408.1	9 (17.5-20)					
20	407.1				0.77		

Continued on Page 2

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:
SOIL: BTEX/MTBE/TPH-GRO & DRO
GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-82
	Project Number:	01005-093-351	
	Boring Location:	West side of Old St. Louis Road,	
		at intersection of W. Maple Street	*Sheet:* 2 of 2
	Survey Coordinates (ft.):	N - 789315.59 E - 2316057.58	*Date/Time Started:*
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	01/10/05 0817
Logged By: Brandon Gorte	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:*
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Overcast, upper 30s	01/10/05 0950
Drillers: C. Brown and J. Brown	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (427.08 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
21	406.1	10 (20-22.5)	SPLIT SPOON	50	0.36	**SAND (SP), cont'd.**	**VMP-82M** MEDIUM VAPOR PROBE Installed 21.5-22 ft.
22	405.1				1.8		
23	404.1	11 (22.5-25)			0.39	**SILT (ML)** Dk-lt. gray, orange mottle silt, wet/moist, soft.	
24	403.1						
25	402.1				1.89	**SAND (SP)** Yellow-orange, fine-med grained sand, well sorted, moist, med density, massive, occasional silt, occasional organics(black).	VMP-82 (25-27.5) @ 944
26	401.1	12 (25-27.5)	SPLIT SPOON	44	0.34		**VMP-82D** DEEP VAPOR PROBE Installed 27-27.5 ft.
27	400.1				3.09		
28	399.1	13 (27.5-30)			0.42		
29	398.1						
30	397.1				4.77	Wet at 29.5 ft.	

End of boring at 30 ft. below ground surface.

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-DRO & GRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-83
	Project Number:	01005-093-351	
	Boring Location:	West Maple Street, near alley west of Delmar	
			Sheet: 1 of 2
	Survey Coordinates (ft.):	N - 789354.07 E - 2316622.21	*Date/Time Started:* 01/07/05 1438
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: Adam Lock	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/10/05 0930
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Overcast, upper 30s	
Drillers: J. Baker and S. Howe	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (425.96 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
					0.0	**Asphalt and subbase gravel (6 in.)**	
1	425.0	1 (0-2.5)	HAND AUGER			**Silty CLAY (CL)** Black silty clay, low plasticity, dry/moist, loose.	
2	424.0				0.0		
3	423.0	2 (2.5-5)			0.2	**Silty CLAY (CL)** Lt. brown silty clay, med plasticity, medium density, dry/moist, orange mottles.	
4	422.0						
5	421.0				0.0		
6	420.0	3 (5-7.5)			0.2		**VMP-83VS** VERY SHALLOW VAPOR PROBE Installed 6-6.5 ft.
7	419.0				0.0	**SAND (SP)** Lt. brown fine grained sand, dry, with orange mottles, loose.	
8	418.0	4 (7.5-10)			0.1		
9	417.0						
10	416.0				0.0	**CLAY (CL)** Lt. brown clay, low plasticity, dry/moist, very dense, orange mottles.	
11	415.0	5 (10-12.5)	SPLIT SPOON		0.0		**VMP-83S** SHALLOW VAPOR PROBE Installed 11-11.5 ft.
12	414.0				0.0	**SAND (SP)** Lt. brown fine grained sand, dry/moist, loose, orange mottles.	VMP-83 (10-12.5) @ 910
13	413.0	6 (12.5-15)		36	0.0	**SILT (ML)** Lt. brown silt, dry/moist, dense, orange lamination.	
14	412.0					3 in. clay seam at 14 ft.	**VMP-83M** MEDIUM VAPOR PROBE Installed 14.5-15 ft.
15	411.0				0.0		
16	410.0	7 (15-17.5)	SPLIT SPOON		0.0		
17	409.0				0.0		
18	408.0	8 (17.5-20)		36	0.0		
19	407.0						
20	406.0				0.0		

Continued on Page 2

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:
SOIL: BTEX/MTBE/TPH-GRO & DRO
GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-83
	Project Number:	01005-093-351	
	Boring Location:	West Maple Street, near alley west of Delmar	
			Sheet: 2 of 2
	Survey Coordinates (ft.):	N - 789354.07 E - 2316622.21	*Date/Time Started:* 01/07/05 1438
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: Adam Lock	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/10/05 0930
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Overcast, upper 30s	
Drillers: J. Baker and S. Howe	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (425.96 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
21	405.0	9 (20-22.5)	SPLIT SPOON	48	0.0	**SILT (ML) - Cont'd.**	**VMP-83D** - DEEP VAPOR PROBE Installed 20.5-21 ft.
22	404.0						VMP-83 (20-22.5) @ 915
23	403.0	10 (22.5-25)			0.0	**Silty CLAY (CL)** Gradual change to gray Silty Clay, high plasticity, moist, dense.	
24	402.0				0.0	**SAND (SP)** Abrupt change to gray fine grained sand, well sorted, medium density, saturated with some black stains.	
25	401.0				0.0		
26	400.0	11 (25-27.5)	SPLIT SPOON	48	0.0		
27	399.0				0.0		
28	398.0	12 (27.5-30)			0.0	6 in. clay seam at 28 ft.	
29	397.0						
30	396.0				0.0		

End of boring at 30 ft. below ground surface.

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-DRO & GRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-84
	Project Number:	01005-093-351	
	Boring Location:	Library Parking Lot near Hawthorne Street	*Sheet:* 1 of 2
	Survey Coordinates (ft.):	N - 789074.90 E - 2316214.66	*Date/Time Started:* 01/06/04 1433
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: Brandon Gorte	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/06/04 1552
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Overcast, low 20s	
Drillers: C. Brown and J. Brown	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (429.52 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	428.5	1 (0-2)	HAND AUGER		-0.41	**Asphalt (6 in.)**	
2	427.5				98.27	**CLAY (CL)** Olive gray clay, some silt, med plastic, cohesive, moist, medium stiffness, organics.	
3	426.5	2 (2-4)			-0.44		
4	425.5				3.34	**Silty CLAY (CL)** Lt. brown silty clay, med plasticity, moist, medium stiffness, mottled, trace organics.	**VMP-84VS** VERY SHALLOW VAPOR PROBE Installed 4-4.5 ft.
5	424.5	3 (4-6)			-0.29		
6	423.5				-0.69		
7	422.5	4 (6-8)			-0.34	Stiff, orange oxidation, no organics observed.	
8	421.5				-0.01		
9	420.5	5 (8-10)			0.00	V. stiff.	
10	419.5				0.28		
11	418.5	6 (10-12.5)	SPLIT SPOON		-0.43	**Silty SAND (SP)** Lt. brown silty sand, v. fine to fine grained dense, well sorted, moist, dense, white spots 1/8 in. diam (burrow structures) in top 2 ft.	**VMP-84S** SHALLOW VAPOR PROBE Installed 11-11.5 ft.
12	417.5			40	0.43		
13	416.5	7 (12.5-15)			-0.39		
14	415.5						
15	414.5				0.39		
16	413.5	8 (15-17.5)	SPLIT SPOON		-0.40	**SAND (SP)** - Lt. gray/Lt. brown laminated, v.fine to fine grained sand, well sorted, stiff to medium stiffness, moist, occasional crossbedding, orange oxidized layers.	
17	412.5				0.45		
18	411.5	9 (17.5-20)		24	-0.43		
19	410.5						
20	409.5				0.49		

Continued on Page 2

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:
SOIL: BTEX/MTBE/TPH-GRO & DRO
GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-84
	Project Number:	01005-093-351	
	Boring Location:	Library Parking Lot near Hawthorne Street	
			Sheet: 2 of 2
	Survey Coordinates (ft.):	N - 789074.90 E - 2316214.66	*Date/Time Started:* 01/06/05 1433
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: *Brandon Gorte*	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/06/05 1552
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Overcast, low 20s	
Drillers: C. Brown and J. Brown	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (429.52 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
21	408.5	10 (20-22.5)	SPLIT SPOON		-0.40	**SAND (SP), Cont'd.** Yellow-orange to Lt. Brown fine to med grained sand, well sorted, moist, trace black lamination (possible organics).	**VMP-84M** MEDIUM VAPOR PROBE Installed 21-21.5 ft.
22	407.5				0.39		
23	406.5	11 (22.5-25)		24	-0.41		
24	405.5						
25	404.5				-0.44		
26	403.5	12 (25-27.5)	SPLIT SPOON		-0.44	More defined black organic lamination.	
27	402.5				0.39		**VMP-84D** DEEP VAPOR PROBE Installed 27.5-28 ft.
28	401.5	13 (27.5-30)		36	-0.38	Gray silt, moist, soft, massive (2 in. thick).	VMP-84 (27.5-30) @ 1546
29	400.5						
30	399.5				3.45	Wet at 30 ft.	

End of Boring at 30 ft. below ground surface

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-DRO & GRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-85
	Project Number:	01005-093-351	
	Boring Location:	SE corner of Park SE of Delmar & Hawthorne intersection	*Sheet:* 1 of 2
	Survey Coordinates (ft.):	N - 788834.44 E - 2316909.58	*Date/Time Started:* 01/04/05 1126
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: Brandon Gorte	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/07/05 1345
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Overcast, mid 40s	
Drillers: C. Brown and J. Brown	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (429.52 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	428.5	1 (0-2)	HAND AUGER		0.33	**Grass, Topsoil**	
2	427.5				1.79	**Fill** Dark gray silty clay fill, low plasticity, moist/dry, soft, massive.	
3	426.5	2 (2-4)			0.47		
4	425.5				2.21	**Clayey Silt (CL/ML)** Lt. brown clayey silt, low plasticity, moist, soft, trace plant remais, organics, massive.	**VMP-85VS** VERY SHALLOW VAPOR PROBE Installed 4-4.5 ft.
5	424.5	3 (4-6)			0.37		
6	423.5				2.47	**CLAY (CL)** Lt. brown/yellow-orange clay, high plasticity, cohesive, moist, stiff, occasional orange oxidation spots (1/16 in.), mottled.	
7	422.5	4 (6-8)			0.07		
8	421.5				1.94		
9	420.5	5 (8-10)			0.47		
10	419.5				2.94		
11	418.5	6 (10-12.5)	SPLIT SPOON	60	0.15		
12	417.5				0.0		
13	416.5	7 (12.5-15)			0.2		
14	415.5					**Clayey SILT (CL/ML)** Dk brown clayey silt, low plasticity, moist with some perched water above the clay, med density, dark gray lamination, mineralized nodules, some organics.	**VMP-85S** SHALLOW VAPOR PROBE Installed 14-14.5 ft.
15	414.5				0.2		VMP-85 (12.5-15) @ 1315
16	413.5	8 (15-17.5)	SPLIT SPOON		0.0		
17	412.5			54	0.0		
18	411.5	9 (17.5-20)			0.4	**CLAY (CL)** H. density, med plast, gray w/orange laminant, burrows, moist.	**VMP-85M** MEDIUM VAPOR PROBE Installed 18.5-19 ft.
19	410.5					**SAND (SP)** Gray, fine grained sand, with orange laminant, low plastisity, med density, moist, loose mineralized nodules.	
20	409.5				0.3		VMP-85 (17.5-20) @ 1320

Continued on Page 2

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:
SOIL: BTEX/MTBE/TPH-GRO & DRO
GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-85
	Project Number:	01005-093-351	
	Boring Location:	SE corner of Park SE of Delmar & Hawthorne intersection	*Sheet:* 2 of 2
	Survey Coordinates (ft.):	N - 788834.44 E - 2316909.58	*Date/Time Started:* 01/06/05 1433
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: Brandon Gorte	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/06/05 1552
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Overcast, mid 40s	
Drillers: C. Brown and J. Brown	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (429.52 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
21	408.5	10 (20-23)	SPLIT SPOON	20	0.0 / 0.0	**SAND (SP)** Lt. brown fine grained sand, well sorted, dry/moist, dense.	
22	407.5						
23	406.5						
24	405.5					Refusal @ 23 ft. Blind drill to 28 ft.	
25	404.5						
26	403.5						
27	402.5						**VMP-85D** DEEP VAPOR PROBE Installed 27.5-28 ft.
28	401.5						
29	400.5	11 (28-30)	SPLIT SPOON	20	0.0 / 0.0	Lt. brown fine grained sand well sorted, dry/moist, dense. Wet from 29-30 ft. bgs	
30	399.5						

End of boring at 30 ft. below ground surface.

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-DRO & GRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-86
	Project Number:	01005-093-351	
	Boring Location:	Market Street, 30 ft south of Hawthorne Street	*Sheet:* 1 of 2
	Survey Coordinates (ft.):	N - 788941.65 E - 2317152.74	*Date/Time Started:* 01/06/04 0909
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: Brandon Gorte	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/06/04 1200
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Overcast, low 20s	
Drillers: C. Brown and J. Brown	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (431.18 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	430.2	1 (0-2)	HAND AUGER		-0.56	**Asphalt** (8 in.)	
2	429.2				0.35	**Fill** Dark gray silty clay fill, dry, massive, soft.	
3	428.2	2 (2-4)			-0.56	**SILT (ML)** Lt. brown/yellow-orange silt, dry, massive, soft.	
4	427.2				0.49		**VMP-86VS** VERY SHALLOW VAPOR PROBE Installed 4.5-5 ft.
5	426.2	3 (4-6)			-0.34		
6	425.2				0.39	**Silty CLAY (ML/CL)** Lt. brown silty clay, med plasticity, dry, med. Stiff, mottled, occasional orange oxidation spots (1/16 in.).	
7	424.2	4 (6-8)			-0.50		
8	423.2				0.41	Trace organics.	
9	422.2	5 (8-10)			-0.51		
10	421.2				-0.31		
11	420.2	6 (10-12.5)	SPLIT SPOON		-0.35	**Silty CLAY (CL)** Lt. brown silty clay, moist, stiff, more oxidation, root structures, organics.	
12	419.2			40	0.65		
13	418.2	7 (12.5-15)			-0.35		
14	417.2						
15	416.2				1.11		
16	415.2	8 (15-17.5)	SPLIT SPOON		-0.39	**SAND (SP)** Lt. brown laminated with yellow-orange, v. fine-fine grain sand, moist, well sorted, med dense.	**VMP-86S** SHALLOW VAPOR PROBE Installed 16-16.6 ft.
17	414.2			46	0.52		VMP-86 (15-17.5)
18	413.2	9 (17.5-20)			-0.35	**Sandy SILT (SP-ML)** Lt. brown laminated with yellow-orange sandy silt, moist, soft. Wet between 19 to 19.5 ft.	
19	412.2						
20	411.2				154		

Continued on Page 2

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:
SOIL: BTEX/MTBE/TPH-GRO & DRO
GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-86
	Project Number:	01005-093-351	
	Boring Location:	Market Street, 30 ft south of Hawthorne Street	*Sheet:* 2 of 2
	Survey Coordinates (ft.):	N - 788941.65 E - 2317152.74	*Date/Time Started:* 01/06/05 0909
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: Brandon Gorte	*Checked By:*	L. Beran and J. Petruccione	*Date/Time Finished:* 01/06/05 1200
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather(°F):*	Overcast, low 20s	
Drillers: C. Brown and J. Brown	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (431.18 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
21	410.2	10 (20-22.5)	SPLIT SPOON	40	-0.45 / 1.78	More orange oxidation and laminated oxidation. Moist.	
22	409.2						
23	408.2	11 (22.5-25)			-0.44 / 3.06	**SAND (SP)** Lt. brown and yellow-orange laminated, v. fine-fine grained sand, well sorted, med dense, moist.	**VMP-86M** MEDIUM VAPOR PROBE Installed 23-23.5 ft.
24	407.2						
25	406.2						
26	405.2	12 (25-27.5)	SPLIT SPOON	54	-0.41 / 2.08		VMP-86 (27.5-30)
27	404.2						
28	403.2	13 (27.5-30)			-0.41 / 1.39	**SAND (SP)** Lt. brown med-fine grain sand, well sorted, moist, med dense, occasional black organics, occasional Lt. brown silts.	**VMP-86D** DEEP VAPOR PROBE Installed 29-29.5 ft.
29	402.2						
30	401.2						
31	400.2	14 (30-32.5)	SPLIT SPOON	44	-0.40 / 0.98	Wet at 30 Ft.	
32	399.2						
33	398.2	15 (32.5-35)			-0.39 / 1.43		
34	397.2						
35	396.2						

End of boring at 35 ft. below ground surface.

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-DRO & GRO

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-88
	Project Number:	01005-093-351	
	Boring Location:	112 W. Cherry Street	*Sheet:* 1 of 1
	Survey Coordinates (ft.):	N - 790897.09 E - 2316637.88	*Date/Time Started:* 02/15/05 1350
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25in ID)	
Logged By: J. Petruccione, P.G.	*Checked By:*	J. Petruccione	*Date/Time Finished:* 02/15/05 1630
Drilling Co.: Philip Environmental	*Weather(°F):*	Warm, sunny, 50° F	
Drillers: J. Bignall, E. Ivie, and J. Rushton (GRP)	*Drilling Equip.:*	CME 75	

Depth (feet)	Elevation (430.36 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	429.4		22 INCH CORER			**Asphalt; coarse crushed stone (fill)**	
2	428.4						
3	427.4	1 (2.5-3)	HAND AUGER		0 / 0	**FILL** - Dk brown to brown, silt with trace of sand, soft, dry.	
4	426.4						
5	425.4	2 (4-5)			0 / 0	Brown silt, with trace of sand and clay, soft, moist.	**VMP-88 VS** VERY SHALLOW VAPOR PROBE Installed 5.5-6 ft.
6	424.4						
7	423.4	3 (6-7)			0 / 0	Brown clayey silt with trace of sand, low-medium plasticity, moist.	
8	422.4						
9	421.4	4 (8-9)			0 / 0	**Silty CLAY (CL)** Brown silty clay, trace orange mottles, stiff 1 tsf, med plasticity, moist, trace organic (plant) matter.	
10	420.4	5 (9-10)	SPLIT SPOON	60	0 / 0	Dk. Brown silty clay, stiff to v. stiff 2-2.5 tsf, trace orange mottle, trace organic matter.	
11	419.4						
12	418.4	6 (11-12)			0 / 0	**Clayey SILT (ML) -** Brown clayey silt with orange mottle, stiff 1.5 tsf, low plasticity, moist.	
13	417.4					**SILT (ML) -** Brown silt, with trace sand and clay, trace organic (plant) remains, trace orange mottles, moist.	**VMP-88 S** SHALLOW VAPOR PROBE Installed 13-13.5 ft.
14	416.4	7 (13-14)			0.3 / 0		VMP-88 (13-14)

End of Boring at 14 ft. below ground surface.

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

Note: VMP completion with grout from 2 ft to 0.5 ft; finish with 8 inch diameter flush-mount manhole.

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-DRO/TPH-GRO 13-14 FT
Grain size 13-14 FT
GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-89
	Project Number:	01005-093-351	
	Boring Location:	E. Cherry Street west of railroad tracks	*Sheet:* 1 of 1
	Survey Coordinates (ft.):	N - 790910.34 E - 2316938.83	*Date/Time Started:* 02/15/05 0935
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25in ID)	
Logged By: J. Petruccione, P.G.	*Checked By:*	J. Petruccione	*Date/Time Finished:* 02/15/05 1330
Drilling Co.: Philip Environmental	*Weather(°F):*	Dry, partly sunny, 45 F	
Drillers: J. Bignall, E. Ivie, and J. Rushton (GRP)	*Drilling Equip.:*	CME 75	

Depth (feet)	Elevation (430.76 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
						Asphalt (4 in.) no coarse fill	
1	429.8		22 INCH CORER			**Organic Soil -** dark brown, very loose, dry to moist	
2	428.8						
3	427.8	1 (2-3)	HAND AUGER		1.5 / 6	**SILT (ML)** Dk brown to brown, silt with trace of sand, v. loose, dry.	
4	426.8						
5	425.8	2 (4-5)			1.5 / 8	Brown silt, with trace of sand and clay, loose, dry.	**VMP-89 VS** VERY SHALLOW VAPOR PROBE Installed 5.5-6 ft.
6	424.8						
7	423.8	3 (7.5-8)			1.8 / 6	**Silty CLAY (ML/CL)** Dk. Brown silty clay, low to med plasticity, dry to moist, trace organic (plant) matter.	
8	422.8						
9	421.8	4 (8-9)			2.5 / 6	Dk. Brown to brown silty clay with orange mottles, stiff 2 tsf, med plasticity, moist, trace black organics.	
10	420.8		SPLIT SPOON	60		Very stiff 2.5 tsf.	
11	419.8	5 (10-11)			2.5 / 8.7	Brown to lt. grey silty clay with orange mottles, silty, v.stiff 2.25 tsf, moist.	
12	418.8						
13	417.8	6 (12-12.5)			4 / 9	Brown to lt. grey silty clay with orange mottles, stiff 1.5 tsf, moist trace Dk. Brown to black organics.	**VMP-89 S** SHALLOW VAPOR PROBE Installed 14-14.5 ft.
14	416.8	7 (13-14)			4 / 11	**SILT (ML)** - Brown silt, low plasticity, orange mottles, moist.	
15	415.8	8 (14-15)	SPLIT SPOON	60	6.5 / 7	moist to wet.	
16	414.8					**Clayey SILT (ML) -** Brown clayey silt at 15.75 ft bgs, moist.	
17	413.8	9 (16.5-17.5)			8 / 7	v. soft, low plasticity, moist.	
18	412.8					**SILT (ML)** - Brown silt, trace sand, moist at 17.5 ft.	
19	411.8	10 (18-19)			420 / 3500	strong petroleum hydrocarbon odor.	VMP-89 (18-19) ENV

End of boring at 19 ft. below ground surface.

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

Note: VMP completion with grout from 2 ft to 0.5 ft; Finish with 8 inch diameter flush-mount manhole.

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-DRO/TPH-GRO 18-19 FT
Grain size 10-10.5 FT
GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-90
	Project Number:	01005-093-351	
	Boring Location:	107 E. Cherry Street	*Sheet:* 1 of 1
	Survey Coordinates (ft.):	N - 790896.45 E - 2317231.11	*Date/Time Started:* 02/14/05 1610
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: J. Petruccione, P.G.	*Checked By:*	J. Petruccione	*Date/Time Finished:* 02/15/05 0930
Drilling Co.: Philip Environmental	*Weather (°F):*	Sunny, dry, 50's / partly cloudy 40's	
Drillers: J. Bignall, E. Ivie, and J. Rushton (GRP)	*Drilling Equip.:*	CME 75	

Depth (feet)	Elevation (429.42 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	428.4		22 INCH CORER			**Asphalt;** crushed stone (fill), dry	
2	427.4					**Silty CLAY (CL)** dark brown, medium stiff, dry	
3	426.4	1 (2-3)	HAND AUGER		27 / 180	dark gray, medium stiff, dry	
4	425.4						
5	424.4	2 (4-5)			25 / 113	dark gray, medium stiff, medium plasticity, dry	**VMP-90 VS** VERY SHALLOW VAPOR PROBE Installed 5.5-6 ft.
6	423.4						
7	422.4	3 (6-7)			23 / 103	olive gray with orange mottles, medium stiff, low plasticity, dry, slight petroleum odor	
8	421.4						
9	420.4	4 (8-9)			80 / 420	medium plasticity	
10	419.4	5 (9-10)	SPLIT SPOON	60	20 / 380	**SILT (ML)** olive gray, moist to wet, petroleum odor	**VMP-90 S** SHALLOW VAPOR PROBE Installed 10-10.5 ft.
11	418.4						
12	417.4	6 (11-12)			256 / 2900	**Silty CLAY (CL)** olive gray, minor orange mottle, medium plasticity medium stiff 1tsf, strong petroleum hydrocarbon odor	VMP-90 (11-12) ENV sample
13	416.4					4 in. lens of olive gray silt at 13 ft.	
14	415.4	7(13.5-14)			125 / 1090	**SILT (ML)** olive gray, petroleum odor, wet at base	

End of boring at 14 ft. below ground surface.

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-DRO/TPH-GRO
GRAIN SIZE 9-10 FT

GROUNDWATER: none submitted

Note: VMP completion with grout from 2 ft to 0.5 ft; finish with 8 inch diameter flush-mount manhole.

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-91
	Project Number:	01005-093-351	
	Boring Location:	111 W. Date Street	*Sheet:* 1 of 1
	Survey Coordinates (FT.):	N - 790612.36 E - 2316687.19	*Date/Time Started:* 02/16/05 0750
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25in ID)	
Logged By: J. Petruccione, P.G.	*Checked By:*	J. Petruccione	*Date/Time Finished:* 02/16/05 1015
Drilling Co.: Philip Environmental	*Weather(°F):*	Overcast, cool, 30s F, dry	
Drillers: J. Bignall, E. Ivie, and J. Rushton (GRP)	*Drilling Equip.:*	CME 75	

Depth (feet)	Elevation (430.65 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	429.7		22 INCH CORER			**Asphalt**	
2	428.7						
3	427.7	1 (2-3)	HAND AUGER		0 / 0	**FILL** - Brown fine sand, well graded, loose, dry.	
4	426.7						
5	425.7	2 (4-5)			0 / 0	Brown fine sand, well graded, loose, dry.	
6	424.7						
7	423.7	3 (6-7)			0 / 0	Brown fine sand, loose, grades to silty sand with trace clay, moist.	
8	422.7						VMP-91 (9-10)
9	421.7	4 (8-9)			0 / 0	Brown to grey, fine sandy silt, loose, trace clay, wet near base.	**VMP-91 S** SHALLOW VAPOR PROBE Installed 9-9.5 ft.
10	420.7	5 (9-10)	SPLIT SPOON	60	0 / 0	**SAND and SILT (SW-SM, ML)** Brown sand and silt w/orange mottles, loose.	
11	419.7					**Silty CLAY (ML-CL) -** Brown to grey with orange mottle, v.stiff 1.5-1.75 tsf, moist, organics (plant) remains.	
12	418.7						
13	417.7	6 (12-13)			0 / 1	Dk. Grey with white shell fragments, v.stiff 1.5-1.75 tsf, moist, trace plant remains.	
14	416.7						

End of Boring at 14 ft. below ground surface.

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

Note: VMP completion with grout from 2 ft to 0.5 ft; Finish with 8 inch diameter flush-mount manhole.

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-DRO/TPH-GRO 9-10 FT

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-92
	Project Number:	01005-093-351	
	Boring Location:	107 E. Date Street	
			Sheet: 1 of 1
	Survey Coordinates (ft.):	N - 790610.97 E - 2317120.99	*Date/Time Started:* 02/14/05 1300
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: J. Petruccione, P.G.	*Checked By:*	J. Petruccione	*Date/Time Finished:* 02/14/05 1630
Drilling Co.: Philip Environmental	*Weather(°F):*	Dry, sunny, windy, 50's	
Drillers: J. Bignall, E. Ivie, and J. Rushton (GRP)	*Drilling Equip.:*	CME 75	

Depth (feet)	Elevation (431.00 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	430.0		22 INCH CORER			**Asphalt;** crushed stone (fill), dry	
2	429.0					**Silty CLAY (CL)** dark brown, soft, dry	
3	428.0	1 (2.5-3)	HAND AUGER		3.6 / 0	**Clayey SILT (ML)** dark brown, soft, dry	
4	427.0						
5	426.0						**VMP-92 VS** VERY SHALLOW VAPOR PROBE
6	425.0	2 (5.5-6)			4.2 / 0	dark brown, medium stiff, dry to moist	Installed 5.5-6 ft.
7	424.0						
8	423.0	3 (7.5-8)			4.1 / 0	brown with orange mottle silt laminae, medium stiff, dry to moist	
9	422.0						
10	421.0						
11	420.0	4 (10-12)	SPLIT SPOON	24	6.5 / 0	**Silty CLAY (CL)** brown with orange mottle silty laminae, stiff 1.5 tsf, moist	
12	419.0					siltier at bottom of sample	
13	418.0		SPLIT SPOON	60		brown with orange mottle, stiff 1.0 tsf	**VMP-92 S** SHALLOW VAPOR PROBE
14	417.0	5 (13-14)			11 / 16	**Silt (ML)** brown, moist to wet	Installed 12.75-13.25 ft.
15	416.0					**Silty CLAY (CL)** brown with orange mottle, stiff 1.25 tsf, moist	VMP-92 (13-14) ENV sample
16	415.0						
17	414.0	6 (16-17)			30 / 15	**Silt with some clay (ML)** orange mottle, stiff 1.0 tsf, dry brown at 16.5 ft, moist	

End of boring at 17 ft. below ground surface.

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-DRO/TPH-GRO
GRAIN SIZE 12.5-13.5 FT

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-93
	Project Number:	01005-093-351	
	Boring Location:	119 E. Date Street	*Sheet:* 1 of 1
	Survey Coordinates(ft.):	N - 790607.47 E - 2317348.08	*Date/Time Started:* 02/14/05 0915
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: J. Petruccione, P.G.	*Checked By:*	J. Petruccione	*Date/Time Finished:* 02/14/05 1215
Drilling Co.: Philip Environmental	*Weather (°F):*	Dry, cool, overcast, mid 40s	
Drillers: J. Bignall, E. Ivie, and J. Rushton (GRP)	*Drilling Equip.:*	CME 75	

Depth (feet)	Elevation (429.95 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	429.0		22 INCH CORER			**Asphalt;** crushed stone (fill), dry	
2	428.0					**Silty CLAY (CL)** dark brown, soft, dry	
3	427.0	1 (2-3)	HAND AUGER		0.9 / 0	dark brown, soft, moist	
4	426.0						
5	425.0	2 (4-5)			1.3 / 0	dark brown, stiff, 1.25 tsf, moist	**VMP-93 VS** VERY SHALLOW VAPOR PROBE Installed 5.0-5.5 ft.
6	424.0	3 (5-6)			1.6 / 0	dark brown and orange mottle, thin silty laminae, stiff, 1.25 tsf, moist	
7	423.0						
8	422.0	4 (7-8)			1.7 / 0	brown with orange mottle silt laminae, stiff, moist	
9	421.0						**VMP-93 S** SHALLOW VAPOR PROBE Installed 9.5-10.0 ft.
10	420.0	5 (9-10)	SPLIT SPOON	60	4.4 / 0.2	**SILT (ML)** brown, moist	VMP-93 (9-10) ENV sample
11	419.0						
12	418.0	6 (11-12)			6.5 / 0	wet at 11.5 ft **SILT with CLAY (ML)** brown silt with gray clay mottle, medium stiffness, trace organic (plant) matter	
13	417.0					**SILT (ML)** brown, wet at 12.5 ft	
14	416.0	7 (13-14)			3.4 / 0		

End of boring at 14 ft. below ground surface.

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-DRO/TPH-GRO
GRAIN SIZE 9-10 FT

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-94
	Project Number:	01005-093-351	
	Boring Location:	West of North Olive on Elm (401 N. Olive)	*Sheet:* 1 of 1
	Survey Coordinates (ft.):		*Date/Time Started:* 02/16/05 1045
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25in ID)	
Logged By: J. Petruccione, P.G.	*Checked By:*	J. Petruccione	*Date/Time Finished:* 02/16/05 1430
Drilling Co.: Philip Environmental	*Weather (°F):*	Dry, sunny, cool 40 F	
Drillers: J. Bignall, E. Ivie, and J. Rushton (GRP)	*Drilling Equip.:*	CME 75	

Depth (feet)	Elevation (429.87 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	428.9		22 INCH CORER			**Asphalt**	
						Organic Soil - dark brown, very loose, dry to moist	
2	427.9	1 (1-2)			8 / 145	**Silty CLAY (CL)** Dk. Brown silty clay, med plasticity, moist.	
3	426.9		HAND AUGER				
4	425.9	2 (3-4)			12 / 302	trace orange mottle.	
5	424.9	3 (4.5-5.5)			16 / 246	Dk. brown silty clay, med plasticity, stiff, moist, few orange mottle and black organics.	**VMP-94 VS** VERY SHALLOW VAPOR PROBE Installed 5.5-6 ft.
6	423.9						
7	422.9	4 (6-7)			11 / 136	Grey silty clay with orange mottles, med stiff, moist, trace black organics.	
8	421.9						
9	420.9	5 (8-9)			19 / 26	**Clayey SILT (ML)** - Olive grey clayey silt with orange mottle, soft, moist, petroleum hydrocarbon odor.	
10	419.9	6 (9-10)	SPLIT SPOON		30 / 1100	**SILT (ML)** - Olive grey silt with clay and clayey silt, soft, petroleum odor.	
11	418.9			48		Olive grey silt, with thin silty clay interbedding to 14 ft. bgs, petroleum hydrocarbon odor.	
12	417.9						
13	416.9	7 (12-13)			605 / 18000		VMP-94 (12-13) **VMP-94S** SHALLOW VAPOR PROBE Installed 13.5-14 ft.
14	415.9						
15	414.9	8 (14-15)	SPLIT SPOON	60	243 / 3400	Olive grey silt, petroleum hydrocarbon odor present, wet at 15 ft.	
16	413.9					Grades to silty clay, thin interbeds to 15.5 ft.	
						Silty CLAY (CL) - Lt.Brown to grey w/orange mottles/clots, 0.75 tsf.	
17	412.9	9 (16-17)			110 / 1700	Abrupt color changed at 16.75 ft to olive grey silty clay, trace orange mottles, 0.25 tsf.	
18	411.9					Lt. brown silty clay (18-18.25 ft.), 1.5 tsf.	
19	410.9	10 (18-19)			950 / 23000	Olive gray silty clay (18.25-18.75 ft), 0.25 tsf. **SILT (ML)** - Olive grey silt (18.75 ft.), petroleum odor.	VMP-94 (18-19) ENV sample

End of boring at 19 ft. below ground surface.

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)

Note: VMP completion with grout from 2 ft to 0.5 ft; Finish with 8 inch diameter flush-mount manhole.

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-DRO/TPH-GRO 12-13 ft and 18-19 ft.
Grain size 12-13 & 14-15 ft.

GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-96
	Project Number:	01005-093-351	
	Boring Location:	W. Birch and N. Delmar	*Sheet:* 1 of 2
	Survey Coordinates (ft.):	N - 791219.61 E - 2316723.83	*Date/Time Started:* 01/31/05 1030
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25 in. ID)	
Logged By: Adam Lock	*Checked By:*	J. Petruccione	*Date/Time Finished:* 01/31/05 1930
Drilling Co.: Philip Environmental	*Weather (°F):*	Overcast, high mid 40s	
Drillers: J. Bignall and E. Ivie	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (429.93 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
1	428.9	1 (0-2.5)	HAND AUGER		14 / 675	**Asphalt and subgrade gravel** (4in.) **Silty CLAY (CL)** Black with some trace gravel, low plasticity, dry/moist, medium stiff.	
2	427.9						
3	426.9	2 (2.5-5)			28 / 1870	Change in color to gray.	
4	425.9						
5	424.9						
6	423.9	3 (5-7.5)			1116 / 1116	Orange mottle appear Change in color to blue green with orange mottle, low density	
7	422.9						
8	421.9	4 (7.5-9)			11 / 1720	**Clayey SILT (CL/ML)** Blue green with orange mottle, soft, low plasticity. **SILT (ML)** **Silty CLAY (CL)** Blue green with orange mottle, medium plasticity, soft, moist.	
9	420.9						
10	419.9	5 (9-11.5)	SPLIT SPOON	48	1 / 108	3 in. Silt with some clay seam, wet at 11 ft.	
11	418.9						
12	417.9	6 (11.5-14)			1 / 214	**SILT (ML)** Loose, blue green with orange mottle, some clay, moist/wet, low plasticity, soft	
13	416.9						
14	415.9						
15	414.9	7 (14-16.5)	SPLIT SPOON	48	16 / 1430	**Silty CLAY (CL)** Blue green with orange mottle, medium plasticity, medium stiff, moist.	
16	413.9						
17	412.9	8 (16.5-19)			18 / 1460	Grades to more clay at 18 ft.	
18	411.9						
19	410.9						
20	409.9	9 (19-21.5)					

Continued on Page 2

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)
# Split spoon interval from 29-34 ft. was flushed with water because of gas pocket encountered.

LAB ANALYSIS:
SOIL: BTEX/MTBE/TPH-DRO/GRO
GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-96
	Project Number:	01005-093-351	
	Boring Location:	W. Birch and N. Delmar	
			Sheet: 2 of 2
	Survey Coordinates (ft.):	N - 791219.61 E - 2316723.83	*Date/Time Started:* 01/31/05 1035
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: Adam Lock	*Checked By:*	J. Petruccione	*Date/Time Finished:* 01/31/05 1930
Drilling Co.: Philips Environmental	*Weather (°F):*	Overcast, high mid 40s	
Drillers: J. Bignall and E. Ivie	*Drilling Equip.:*	CME 45	

Depth (feet)	Elevation (429.93 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID* / FID+	Lithologic Description	REMARKS / Lab Sample ID
21	408.9	9 (19-21.5)	SPLIT SPOON	55	7 / 470	**Silty CLAY (CL) - Cont'd.**	
22	407.9	10 (21.5-24)			120	Grades to gray **Clayey SILT (CL/ML)**	
23	406.9					Gradual change to gray **Silty SAND (SP)**	
24	405.9				4300	Gradual change to gray well sorted fine **SAND (SP)**	
25	404.9	11 (24-27.5)	SPLIT SPOON	50	170	**Clayey SILT (CL/ML)** Gray with orange mottle, medium stiff 3 in. well graded medium sand seam, wet at 24.5 ft.	
26	403.9					3 in. well graded medium sand seam, wet at 25.5 ft. 4 in. dense silt seam, dry/moist at 25.9 ft.	
27	402.9				2600	**Silty SAND** (SP) Medium density, gray, silty fine sand, wet	
28	401.9				20	Grades into more clay and sand, change to moist	
29	400.9	12 (27.5-30)			630		
30	399.9		SPLIT SPOON	48	NA	**Silty CLAY (CL)** Gray, silty clay, high plasticity, medium stiff,wet. 6 in. Silt seam @ 30 ft.	
31	398.9	13 (30-32.5)					
32	397.9				NA	6 in. Silt seam @ 31.5 ft.	
33	396.9	14 (32.5-34)				**Medium SAND (SP)**, well sorted, gray, medium dense, wet, odors	
34	395.9					**Sandy CLAY (CL)**, gray, medium stiff, wet (flushed)	

End of boring at 34 ft. below ground surface.

Note: VMP-96 abandoned o 1/31/05 using cement grout from total depth to surface.

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector - * units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector - + units relative to methane span gas in parts per million (ppm)
# Split spoon interval from 29-34 ft. was flushed with water because of gas pocket encountered.

LAB ANALYSIS:

SOIL: BTEX/MTBE/TPH-DRO/GRO

GROUNDWATER: none submitted

APPENDIX B

SOIL SAMPLE TRACKING TABLE

APPENDIX B
SOIL SAMPLE TRACKING TABLE

Hartford Working Group
Hartford, Illinois

Sample Date	Sample ID	Sample Matrix	Analysis Type	Sampling Purpose	Laboratory	Date				Laboratory Report / Sample ID	Sample Data Group Number
						Sampled	Received By Lab	Analyzed By Lab	Reported By Lab		
12/27/2004	VMP-72-4-6	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	12/27/2004	12/28/2004	12/30/2004	01/06/2005	04120705-001	4120705
12/27/2004	VMP-72-25-26	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	12/27/2004	12/28/2004	12/30/2004	01/06/2005	04120705-002	4120705
12/27/2004	VMP-73-17.5-20	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	12/27/2004	12/28/2004	12/30/2004	01/06/2005	04120705-003	4120705
12/27/2004	VMP-73-27-28	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	12/27/2004	12/28/2004	12/30/2004	01/06/2005	04120705-004	4120705
12/27/2004	VMP-66-10-12.5	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	12/27/2004	12/28/2004	01/06/2005	01/06/2005	04120705-005	4120705
12/27/2004	VMP-66-22.5-25	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	12/27/2004	12/28/2004	12/30/2004	01/06/2005	04120705-006	4120705
12/27/2004	VMP-67-15-17.5	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	12/27/2004	12/28/2004	01/02/2005	01/06/2005	04120705-007	4120705
12/27/2004	VMP-67-23.5-25	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	12/27/2004	12/28/2004	01/06/2005	01/06/2005	04120705-008	4120705
12/28/2004	VMP-68-17.5-20	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	12/28/2004	12/30/2004	01/06/2005	01/10/2005	04120776-010	4120776
12/28/2004	VMP-68-22.5-25	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	12/28/2004	12/30/2004	01/06/2005	01/10/2005	04120776-011	4120776
12/28/2004	VMP-69-12.5-15	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	12/28/2004	12/30/2004	01/07/2005	01/10/2005	04120776-012	4120776
12/28/2004	VMP-69-22.5-25	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	12/28/2004	12/30/2004	01/07/2005	01/10/2005	04120776-013	4120776
12/29/2004	VMP-65-20-22.5	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	12/29/2004	12/30/2004	01/07/2005	01/10/2005	04120776-015	4120776
12/29/2004	VMP-65-30-35	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	12/29/2004	12/30/2004	01/07/2005	01/10/2005	04120776-014	4120776
12/29/2004	VMP-76-15-17.5	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	12/29/2004	12/30/2004	01/06/2005	01/10/2005	04120776-016	4120776
12/29/2004	VMP-76-20-22.5	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	12/29/2004	12/30/2004	01/07/2005	01/10/2005	04120776-017	4120776
12/29/2004	VMP-75-12.5-15	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	12/29/2004	12/30/2004	01/07/2005	01/10/2005	04120776-018	4120776
12/29/2004	VMP-75-20-22.5	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	12/29/2004	12/30/2004	01/07/2005	01/10/2005	04120776-019	4120776
12/29/2004	VMP-71-10-12.5	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	12/29/2004	12/30/2004	01/06/2005	01/10/2005	04120776-008	4120776
12/29/2004	VMP-71-22.5-25	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	12/29/2004	12/30/2004	01/06/2005	01/10/2005	04120776-009	4120776
12/30/2004	VMP-81-15-17.5	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	12/30/2004	12/30/2004	01/09/2005	01/11/2005	04120826-001	4120826
12/30/2004	VMP-81-15-17.5-D	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	12/30/2004	12/30/2004	01/07/2005	01/11/2005	04120826-002	4120826
12/30/2004	VMP-81-27.5-30	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	12/30/2004	12/30/2004	01/07/2005	01/11/2005	04120826-003	4120826
12/30/2004	VMP-81-27.5-30-D	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	12/30/2004	12/30/2004	01/07/2005	01/11/2005	04120826-004	4120826
12/30/2004	VMP-80-8	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	12/30/2004	12/30/2004	01/10/2005	01/11/2005	04120826-005	4120826
12/30/2004	VMP-80-27.5-30	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	12/30/2004	12/30/2004	01/07/2005	01/11/2005	04120826-006	4120826
12/30/2004	EQUIP, BLANK VMP-81	WATER	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	12/30/2004	12/30/2004	01/09/2005	01/11/2005	04120826-007	4120826
12/30/2004	TRIP BLANK	WATER	BTEX	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	12/30/2004	12/30/2004	01/05/2005	01/11/2005	04120826-008	4120826
12/30/2004	VMP-79-15-17.5	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	12/30/2004	12/30/2004	01/06/2005	01/11/2005	04120826-009	4120826
12/30/2004	VMP-79-22.5-25	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	12/30/2004	12/30/2004	01/06/2005	01/11/2005	04120826-010	4120826
12/30/2004	VMP-79-22.5-25-D	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	12/30/2004	12/30/2004	01/06/2005	01/11/2005	04120826-011	4120826
12/30/2004	EQUIP, BLANK VMP-79	WATER	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	12/30/2004	12/30/2004	01/09/2005	01/11/2005	04120826-012	4120826
01/03/2005	VMP-70-17.5-20	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/03/2005	01/04/2005	01/07/2005	01/11/2005	05010035-001	5010035
01/03/2005	VMP-70-25-27.5	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/03/2005	01/04/2005	01/07/2005	01/11/2005	05010035-002	5010035
01/03/2005	VMP-74-15-17.5	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/03/2005	01/04/2005	01/06/2005	01/11/2005	05010035-003	5010035
01/03/2005	VMP-74-22.5-25	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/03/2005	01/04/2005	01/10/2005	01/11/2005	05010035-004	5010035
01/04/2005	VMP-64-7.5-10	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/04/2005	01/06/2005	01/11/2005	01/14/2005	05010156-001	5010156
01/04/2005	VMP-64-10-12.5	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/04/2005	01/06/2005	01/11/2005	01/14/2005	05010156-002	5010156
01/04/2005	VMP-78-15-17.5	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/04/2005	01/06/2005	01/10/2005	01/14/2005	05010156-003	5010156
01/04/2005	VMP-78-22.5-25	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/04/2005	01/06/2005	01/11/2005	01/14/2005	05010156-004	5010156
01/06/2005	GP-1-9-12	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/06/2005	01/06/2005	01/10/2005	01/14/2005	05010155-001	5010155
01/06/2005	GP-2-12-15	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/06/2005	01/06/2005	01/11/2005	01/14/2005	05010155-002	5010155
01/06/2005	GP-3-9-12	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/06/2005	01/06/2005	01/10/2005	01/14/2005	05010155-003	5010155
01/06/2005	GP-4-12-15	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/06/2005	01/06/2005	01/10/2005	01/14/2005	05010155-004	5010155
01/06/2005	GP-5-7-9	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/06/2005	01/06/2005	01/13/2005	01/14/2005	05010155-005	5010155

APPENDIX B
SOIL SAMPLE TRACKING TABLE

Hartford Working Group
Hartford, Illinois

Sample Date	Sample ID	Sample Matrix	Analysis Type	Sampling Purpose	Laboratory	Date				Laboratory Report / Sample ID	Sample Data Group Number
						Sampled	Received By Lab	Analyzed By Lab	Reported By Lab		
01/06/2005	GP-6-11-12	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/06/2005	01/06/2005	01/11/2005	01/14/2005	05010155-006	5010155
01/06/2005	VMP-86-27.5-30	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/06/2005	01/07/2005	01/12/2005	01/17/2005	05010199-001	5010199
01/06/2005	VMP-86-15-17.5	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/06/2005	01/07/2005	01/12/2005	01/17/2005	05010199-002	5010199
01/06/2005	VMP-84-27.5-30	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/06/2005	01/07/2005	01/13/2005	01/17/2005	05010199-003	5010199
01/07/2005	TRIP BLANK	WATER	BTEX	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/07/2005	01/07/2005	01/12/2005	01/17/2005	05010199-006	5010199
01/07/2005	VMP-85-12.5-15	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/07/2005	01/07/2005	01/13/2005	01/17/2005	05010199-004	5010199
01/07/2005	VMP-85-17.5-20	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/07/2005	01/07/2005	01/13/2005	01/17/2005	05010199-005	5010199
01/07/2005	VMP-62-2.5-5	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/07/2005	01/07/2005	01/17/2005	01/17/2005	05010199-007	5010199
01/07/2005	VMP-62-7.5-10	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/07/2005	01/07/2005	01/13/2005	01/17/2005	05010199-008	5010199
01/07/2005	GP-7-0-3	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/07/2005	01/07/2005	01/11/2005	01/17/2005	05010198-001	5010198
01/07/2005	GP-8-9-12	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/07/2005	01/07/2005	01/11/2005	01/17/2005	05010198-002	5010198
01/07/2005	GP-9-0-3	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/07/2005	01/07/2005	01/11/2005	01/17/2005	05010198-003	5010198
01/07/2005	GP-10-0-3	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/07/2005	01/07/2005	01/11/2005	01/17/2005	05010198-004	5010198
01/07/2005	GP-11-9-12	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/07/2005	01/07/2005	01/14/2005	01/17/2005	05010198-005	5010198
01/07/2005	GP-12-6-9	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/07/2005	01/07/2005	01/12/2005	01/17/2005	05010198-006	5010198
01/07/2005	GP-13-9-12	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/07/2005	01/07/2005	01/12/2005	01/17/2005	05010198-007	5010198
01/10/2005	VMP-82-10-12.5	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/10/2005	01/11/2005	01/13/2005	01/17/2005	05010250-001	5010250
01/10/2005	VMP-82-25-27.5	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/10/2005	01/11/2005	01/13/2005	01/17/2005	05010250-002	5010250
01/10/2005	VMP-56-10-12.5	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/10/2005	01/11/2005	01/13/2005	01/17/2005	05010250-003	5010250
01/10/2005	VMP-56-17.5-20	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/10/2005	01/11/2005	01/17/2005	01/17/2005	05010250-004	5010250
01/10/2005	VMP-83-10-12.5	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/10/2005	01/11/2005	01/13/2005	01/17/2005	05010250-005	5010250
01/10/2005	VMP-83-20-22.5	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/10/2005	01/11/2005	01/17/2005	01/17/2005	05010250-006	5010250
01/10/2005	VMP-55-2.5-5	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/10/2005	01/11/2005	01/15/2005	01/17/2005	05010250-007	5010250
01/10/2005	VMP-55-12.5-15	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/10/2005	01/11/2005	01/15/2005	01/17/2005	05010250-008	5010250
01/10/2005	TRIP BLANK	WATER	BTEX	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/10/2005	01/11/2005	01/14/2005	01/17/2005	05010250-009	5010250
01/10/2005	GP-14-3-6	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/10/2005	01/11/2005	01/16/2005	01/19/2005	05010266-001	5010266
01/10/2005	GP-15-3-6	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/10/2005	01/11/2005	01/16/2005	01/19/2005	05010266-002	5010266
01/10/2005	GP-16-9-12	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/10/2005	01/11/2005	01/16/2005	01/19/2005	05010266-003	5010266
01/10/2005	GP-17-3-6	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/10/2005	01/11/2005	01/18/2005	01/19/2005	05010266-004	5010266
01/10/2005	GP-18-3-6	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/10/2005	01/11/2005	01/15/2005	01/19/2005	05010266-005	5010266
01/10/2005	GP-19-9-12	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/10/2005	01/11/2005	01/18/2005	01/19/2005	05010266-006	5010266
01/10/2005	GP-20-0-3	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/10/2005	01/11/2005	01/15/2005	01/19/2005	05010266-007	5010266
01/10/2005	GP-21-9-12	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/10/2005	01/11/2005	01/15/2005	01/19/2005	05010266-008	5010266
01/11/2005	GP-22-9-12	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/11/2005	01/11/2005	01/16/2005	01/19/2005	05010266-009	5010266
01/11/2005	GP-23-3-6	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/11/2005	01/11/2005	01/16/2005	01/19/2005	05010266-010	5010266
01/11/2005	GP-24-0-3	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/11/2005	01/11/2005	01/18/2005	01/19/2005	05010266-011	5010266
01/11/2005	GP-25-3-6	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/11/2005	01/11/2005	01/17/2005	01/19/2005	05010266-012	5010266
01/11/2005	GP-26-9-12	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/11/2005	01/11/2005	01/17/2005	01/19/2005	05010266-013	5010266
01/11/2005	TRIP BLANK	WATER	BTEX	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/11/2005	01/11/2005	01/14/2005	01/19/2005	05010266-014	5010266
01/11/2005	VMP-63-17.5-20	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/11/2005	01/12/2005	01/16/2005	01/19/2005	05010296-001	5010296
01/11/2005	VMP-60-4	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/11/2005	01/12/2005	01/16/2005	01/19/2005	05010296-002	5010296
01/11/2005	VMP-60-4-Dup	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/11/2005	01/12/2005	01/16/2005	01/19/2005	05010296-003	5010296
01/11/2005	VMP-60-17.5-20	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/11/2005	01/12/2005	01/17/2005	01/19/2005	05010296-004	5010296
01/11/2005	VMP-60-17.5-20-Dup	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/11/2005	01/12/2005	01/19/2005	01/19/2005	05010296-005	5010296
01/11/2005	VMP-54-2.5-5	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/11/2005	01/12/2005	01/19/2005	01/19/2005	05010296-006	5010296

APPENDIX B
SOIL SAMPLE TRACKING TABLE

Hartford Working Group
Hartford, Illinois

Sample Date	Sample ID	Sample Matrix	Analysis Type	Sampling Purpose	Laboratory	Date				Laboratory Report / Sample ID	Sample Data Group Number
						Sampled	Received By Lab	Analyzed By Lab	Reported By Lab		
01/11/2005	VMP-54-22.5-25		BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/11/2005	01/12/2005	01/16/2005	01/19/2005	05010296-007	5010296
01/11/2005	VMP-58-10-12.5	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/11/2005	01/12/2005	01/19/2005	01/19/2005	05010296-008	5010296
01/11/2005	VMP-58-2.5-5	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/11/2005	01/12/2005	01/19/2005	01/19/2005	05010296-009	5010296
01/11/2005	TRIP BLANK	WATER	BTEX	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/11/2005	01/12/2005	01/15/2005	01/19/2005	05010296-010	5010296
01/12/2005	VMP-77-2.5-5	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/12/2005	01/12/2005	01/19/2005	01/19/2005	05010296-011	5010296
01/12/2005	VMP-77-20-22.5	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/12/2005	01/12/2005	01/19/2005	01/19/2005	05010296-012	5010296
01/12/2005	VMP-61-22.5-25	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/12/2005	01/12/2005	01/19/2005	01/19/2005	05010296-013	5010296
01/12/2005	VMP-27D-25-27.5	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/12/2005	01/13/2005	01/19/2005	01/21/2005	05010338-001	5010338
01/12/2005	VMP-27D -EQUIP BLANK	WATER	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/12/2005	01/13/2005	01/21/2005	01/21/2005	05010338-002	5010338
01/12/2005	VMP-59-10-12.5	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/12/2005	01/13/2005	01/21/2005	01/21/2005	05010338-003	5010338
01/12/2005	VMP-59-20-22.5	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/12/2005	01/13/2005	01/19/2005	01/21/2005	05010338-004	5010338
01/12/2005	TRIP BLANK	WATER	BTEX	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/12/2005	01/13/2005	01/15/2005	01/21/2005	05010338-005	5010338
01/14/2005	GP-27-3-6	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/14/2005	01/14/2005	01/21/2005	01/28/2005	05010370-001	5010370
01/14/2005	GP-28-0-3	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/14/2005	01/14/2005	01/21/2005	01/28/2005	05010370-002	5010370
01/14/2005	GP-29-0-3	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/14/2005	01/14/2005	01/21/2005	01/28/2005	05010370-003	5010370
01/14/2005	TRIP BLANK	WATER	BTEX	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	01/14/2005	01/14/2005	01/15/2005	01/28/2005	05010370-005	5010370
02/02/2005	VMP-57-11.5-14	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	02/02/2005	02/03/2005	02/10/2005	02/11/2005	05020113-001	5020113
02/16/2005	VMP-91-9-10	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	02/16/2005	02/17/2005	02/21/2005	02/23/2005	05020484-001	5020484
02/16/2005	VMP-94-18-19	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	02/16/2005	02/17/2005	02/21/2005	02/23/2005	05020484-003	5020484
02/16/2005	HA-21-5-6	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	02/16/2005	02/17/2005	02/21/2005	02/23/2005	05020484-004	5020484
02/16/2005	HA-29-5-6	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	02/16/2005	02/17/2005	02/19/2005	02/23/2005	05020484-005	5020484
02/16/2005	HA-24-5-6	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	02/16/2005	02/17/2005	02/19/2005	02/23/2005	05020484-006	5020484
02/16/2005	HA-27-5-6	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	02/16/2005	02/17/2005	02/19/2005	02/23/2005	05020484-007	5020484
02/16/2005	HA-34-5-6	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	02/16/2005	02/17/2005	02/19/2005	02/23/2005	05020484-008	5020484
02/16/2005	HA-36-5-6	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	02/16/2005	02/17/2005	02/21/2005	02/23/2005	05020484-009	5020484
02/17/2005	HA-19-5-6	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	02/17/2005	02/18/2005	02/22/2005	02/24/2005	05020531-001	5020531
02/17/2005	HA-13-5-6	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	02/17/2005	02/18/2005	02/22/2005	02/24/2005	05020531-002	5020531
02/17/2005	HA-10-5-6	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	02/17/2005	02/18/2005	02/22/2005	02/24/2005	05020531-003	5020531
02/17/2005	HA-16-5-6	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	02/17/2005	02/18/2005	02/22/2005	02/24/2005	05020531-004	5020531
02/17/2005	HA-8-5-6	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	02/17/2005	02/18/2005	02/22/2005	02/24/2005	05020531-005	5020531
02/17/2005	HA-8-5-6 Dup	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	02/17/2005	02/18/2005	02/22/2005	02/24/2005	05020531-006	5020531
02/17/2005	TRIP BLANK	WATER	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	02/17/2005	02/18/2005	02/21/2005	02/24/2005	05020531-007	5020531
02/15/2005	HA-31-5-6	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	02/15/2005	02/16/2005	02/18/2005	03/03/2005	05020433-001	5020433
02/15/2005	HA-37-5-6	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	02/15/2005	02/16/2005	02/18/2005	03/03/2005	05020433-002	5020433
02/15/2005	VMP-88-13-14	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	02/15/2005	02/16/2005	02/18/2005	03/03/2005	05020433-003	5020433
02/15/2005	VMP-89-18-19	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	02/15/2005	02/16/2005	02/21/2005	03/03/2005	05020433-004	5020433
02/15/2005	VMP-90-11-12	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	02/15/2005	02/16/2005	02/18/2005	03/03/2005	05020433-005	5020433
02/15/2005	VMP-92-13-14	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	02/15/2005	02/16/2005	02/18/2005	03/03/2005	05020433-006	5020433
02/15/2005	VMP-93-9-10	SOIL	BTEX, MTBE, TPH-GRO, TPH-DRO	Petroleum hydrocarbon impacts to soil	TEKLAB, INC	02/15/2005	02/16/2005	02/18/2005	03/03/2005	05020433-007	5020433

APPENDIX C

GEOTECHNICAL SAMPLE TRACKING TABLE

APPENDIX C
GEOTECHNICAL SAMPLE TRACKING TABLE

Hartford Working Group
Hartford, Illinois

Sample Date	Sample ID	Sample Matrix	Analysis Type	Sampling Purpose	Laboratory	Date				Laboratory Report / Sample ID	Sample Data Group Number
						Sampled	Received By Lab	Analyzed By Lab	Reported By Lab		
12/27/2004	VMP-66-12.5-15	SOIL	GRAIN SIZE ANALYSIS	Petroleum hydrocarbon impacts to soil	TEKLAB, INC/SHIVELY GEOTECHNICAL INC.	12/27/2004	01/06/2005	01/18/2005	01/18/2005	05010157-001	5010157
12/27/2004	VMP-67-27.5-30	SOIL	GRAIN SIZE ANALYSIS	Petroleum hydrocarbon impacts to soil	TEKLAB, INC/SHIVELY GEOTECHNICAL INC.	12/27/2004	01/06/2005	01/18/2005	01/18/2005	05010157-002	5010157
12/30/2004	VMP-75B-4-6	SOIL	GRAIN SIZE, POROSITY, MOISTURE CONTENT, BULK DENSITY	Petroleum hydrocarbon impacts to soil	TEKLAB, INC/SHIVELY GEOTECHNICAL INC.	12/30/2004	12/30/2004	01/14/2005	01/18/2005	04120825-001	4120825
12/30/2004	VMP-75B-10-12	SOIL	GRAIN SIZE, POROSITY, MOISTURE CONTENT, BULK DENSITY	Petroleum hydrocarbon impacts to soil	TEKLAB, INC/SHIVELY GEOTECHNICAL INC.	12/30/2004	12/30/2004	01/14/2005	01/18/2005	04120825-002	4120825
01/03/2005	VMP-70-35-37	SOIL	GRAIN SIZE ANALYSIS	Petroleum hydrocarbon impacts to soil	TEKLAB, INC/SHIVELY GEOTECHNICAL INC.	01/03/2005	01/06/2005	01/18/2005	01/18/2005	05010157-003	5010157
01/06/2005	GP-4-5-6	SOIL	GRAIN SIZE, POROSITY, MOISTURE CONTENT, BULK DENSITY	Petroleum hydrocarbon impacts to soil	TEKLAB, INC/SHIVELY GEOTECHNICAL INC.	01/06/2005	01/07/2005	01/19/2005	01/20/2005	05010200-001	5010200
01/06/2005	GP-6-5-6	SOIL	GRAIN SIZE, POROSITY, MOISTURE CONTENT, BULK DENSITY	Petroleum hydrocarbon impacts to soil	TEKLAB, INC/SHIVELY GEOTECHNICAL INC.	01/06/2005	01/07/2005	01/19/2005	01/20/2005	05010200-002	5010200
01/14/2005	GP-27-3-6	SOIL	GRAIN SIZE, MOISTURE CONTENT, BULK DENSITY	Petroleum hydrocarbon impacts to soil	TEKLAB, INC/SHIVELY GEOTECHNICAL INC.	01/14/2005	01/14/2005	01/26/2005	01/28/2005	05010370-004	5010370
02/02/2005	VMP-57-13-13.5	SOIL	GRAIN SIZE	Petroleum hydrocarbon impacts to soil	TEKLAB, INC/SHIVELY GEOTECHNICAL INC.	02/02/2005	02/03/2005	02/15/2005	02/16/2005	05020114-001	5020114
02/15/2005	VMP-88-13-14	SOIL	GRAIN SIZE	Petroleum hydrocarbon impacts to soil	TEKLAB, INC/SHIVELY GEOTECHNICAL INC.	02/15/2005	02/16/2005	03/02/2005	03/03/2005	05020433-008	5020433
02/15/2005	VMP-89-14-15	SOIL	GRAIN SIZE	Petroleum hydrocarbon impacts to soil	TEKLAB, INC/SHIVELY GEOTECHNICAL INC.	02/15/2005	02/16/2005	03/02/2005	03/03/2005	05020433-009	5020433
02/15/2005	VMP-89-10-10.5	SOIL	GRAIN SIZE	Petroleum hydrocarbon impacts to soil	TEKLAB, INC/SHIVELY GEOTECHNICAL INC.	02/15/2005	02/16/2005	03/02/2005	03/03/2005	05020433-010	5020433
02/15/2005	VMP-90-9-10	SOIL	GRAIN SIZE	Petroleum hydrocarbon impacts to soil	TEKLAB, INC/SHIVELY GEOTECHNICAL INC.	02/15/2005	02/16/2005	03/02/2005	03/03/2005	05020433-011	5020433
02/14/2005	VMP-92-12.5-13.5	SOIL	GRAIN SIZE	Petroleum hydrocarbon impacts to soil	TEKLAB, INC/SHIVELY GEOTECHNICAL INC.	02/14/2005	02/16/2005	03/02/2005	03/03/2005	05020433-012	5020433
02/14/2005	VMP-93-9-10	SOIL	GRAIN SIZE	Petroleum hydrocarbon impacts to soil	TEKLAB, INC/SHIVELY GEOTECHNICAL INC.	02/14/2005	02/16/2005	03/02/2005	03/03/2005	05020433-013	5020433
02/16/2005	VMP-94-12-13	SOIL	GRAIN SIZE	Petroleum hydrocarbon impacts to soil	TEKLAB, INC/SHIVELY GEOTECHNICAL INC.	02/16/2005	02/17/2005	03/02/2005	03/03/2005	05020485-001	5020485
02/16/2005	VMP-94-14-14.5	SOIL	GRAIN SIZE	Petroleum hydrocarbon impacts to soil	TEKLAB, INC/SHIVELY GEOTECHNICAL INC.	02/16/2005	02/17/2005	03/02/2005	03/03/2005	05020485-002	5020485

APPENDIX D

PRESSURIZED SOIL VAPOR POCKET INCIDENT REPORT

Schumacher, Dave

From: Schumacher, Dave

Sent: Thursday, February 03, 2005 2:44 PM

To: 'Binz, Thomas (E-mail)'; 'Cahnovsky, Chris N. (E-mail)'; 'Faryan, Steve (E-mail)'; 'Moore, Jim (E-mail)'; 'Turner, Kevin (E-mail)'

Cc: 'Hand, Herb (E-mail)'; 'Ken Jurish (ken.jurish@erm.com)'; 'Lahvis, Matthew (E-mail)'; 'Mroz, Thomas (E-mail)'; 'Mulkey, Steve, P.E. (E-mail)'; 'Veenstra, Bob (E-mail)'; 'Wigger, John W (E-mail)'; Robert Miner (bob@priceminer.net); Ralph Feeney (Feeney, Ralph); Robin Schilling (Schilling, Robin); P. G. Monte Nienkerk (MNienkerk@claytongrp.com); Jeff Pope (JPope@claytongrp.com); (kcomire@claytongrp.com); Kostage, Steve; Patlak, Jonathan; Shock, Tom; Nagengast, Timothy; Lock, Adam; Harvey, Kathy; Petruccione, John

Subject: Vapor Pocket Incident on Jan 31, 2005

On January 31, 2005 at approximately 1:30 pm, ENSR's drilling subcontractor, Phillips Services Corp. (PSC), drilled into a pressurized soil vapor pocket at a depth of 29 to 34 feet below grade at boring VMP-96 (originally referred to as VMP-28D) located on W. Birch Street. The trapped vapor pocket appeared to occur in the Main Sand just below an overlying confining clay at a depth of approximately 33 feet (see attached boring log). Drilling was being conducted using 4.5-inch inside diameter hollow-stem augers (9.5-inch outside diameter) and a 4-inch diameter by 5-foot long split-barrel sampler. As the sampler was being retrieved from the hollow-stem augers, a vapor shimmer was observed emanating from the augers and an odor was detected by the drill team. The drill rig was immediately shut down and personnel evacuated the work area.

The field team monitored the situation and anticipated the vapors would quickly dissipate. While the field readings near the drill rig were generally low, the field readings did not dissipate as quickly as anticipated. Thus the field team notified the Hartford Fire Department (HFD) at approximately 2:45. The HFD arrived on the scene at approximately 3:05 pm. The Hartford Police Department, IEPA, and U.S.EPA were also notified. An additional concern identified that led to calling the HFD was that the split-barrel sampler, which was still inside the hollow-stem augers, may actually be preventing vapors from coming out of the augers and that removing it could worsen the situation.

The attached table summarizes the PID, FID and LEL readings that were measured at different times during the incident. Initially (at 1:35 pm), the PID reading was 145 ppm and the FID reading was 1,320 ppm in the breathing zone around the augers. Breathing zone readings dissipated to 1.23 and 2.3 ppm, respectively, 25 minutes after the initial readings (at 2 pm). Near the augers, the PID reading was 148 ppm, FID was 690 ppm and LEL was 55%. The LEL reading inside the augers was over the instrument range. At 3 pm, PID readings in the breathing zone were 75.2 ppm, the FID reading was 120 ppm and the LEL reading was 0%. Near the augers, the PID reading was 155 ppm, FID reading was 690 ppm and LEL was 35%.

As a precautionary measure, the HFD setup ventilation fans on the back of the drill rig and requested voluntary relocation of residents near the borings. Bob Miner was on the scene and made the offer of alternate overnight accommodations to the residents. PID readings collected downwind of the ventilation fans ranged from 0 to 0.1 ppm and FID readings ranged from 0 to 18.1 ppm (measurements are summarized in the attached table).

ENSR worked with PSC and the HFD to develop a procedure to safely abandon and plug the soil boring. The first course of action was to allow the vapors to continue dissipating using the ventilation fans and to continue monitoring. In order to plug the boring, the drill rods, sampler and hollow-stem augers had to be safely removed. The procedure followed included continuous water flooding of the hollow-stem augers by the HFD to displace vapors inside the augers and continuous air monitoring in the area above the augers. After the drilling rods and sampling equipment were removed, the augers were filled with cement (a cement truck was placed on standby by the field team immediately after the incident occurred). The 35-foot string of augers were then removed in 5-foot sections and refilled to the top with cement following removal of each 5-foot section. Following removal of all the augers, the borehole was then completely filled with cement and, therefore, effectively plugged and sealed.

The plugging procedures began at approximately 6:00 pm and were completed by approximately 7:00 pm.

PID and FID readings in the breathing zone during water flooding of the augers and removal of the sampler and augers ranged from 4.1 to 7.9 ppm and 7.2 to 14.7 ppm, respectively. An all clear for the evacuated residents to return to their homes was given by the HFD at approximately 7:00 pm.

John Quigley with the Madison County Emergency Management Agency was on the scene and indicated that the incident needed to be reported to the Illinois Emergency Management Agency (IEMA) due to the relocation of residents. ENSR phoned in the incident to IEMA at approximately 7:30 pm. Incident number H20050166 was assigned.

Air Monitoring Results During Drilling at VMP-28D/VMP-96 on W. Birch Street
Hartford, Illinois
DATE: 1/31/2005
ADDRESS: N. Delmar and W. Birch

TIME	LOCATION	PID	FID	FID WITH SCRUBBER	LEL%	NOTES
1304	VMP-96	0.1	2.64	-	-	During Drilling
1335	VMP-96	145	1320	-	-	Breathing Zone
1400	VMP-96	1.23	2.3	-	0	Breathing Zone
1400	VMP-96	148	690	-	55	Near Auger
1400	VMP-96	-	-	-	Over-range	Inside Augers
1430	VMP-96	1.24	4.7 - 110	-	0	Breathing Zone
1500	VMP-96	75.2	120	-	0	Breathing Zone
1500	VMP-96	155	690	540	0.0 - 35	Near Auger
1520	VMP-96	-	-	-	0	Breathing Zone
1540	VMP-96	-	-	-	0	Breathing Zone
1600	VMP-96	-	-	-	0	Breathing Zone
1700	VMP-96	70	FO	-	Over-range	Inside Augers
1545	Downwind of Fans	0.1	0-2.3	-	-	
1547	Downwind of Fans	0.1	2.3-10.2	-	-	
1549	Downwind of Fans	0	2.3-14.2	-	-	
1551	Downwind of Fans	0	2.0-5.1	-	-	
1555	Downwind of Fans	0	3.4-18.1	-	-	
1557	Downwind of Fans	0	2.4-16.2	-	-	
1603	Downwind of Fans	0	4.6-17.4	-	-	
1800-1835	Breathing Zone Near Worker	4.1-7.9	7.2-14.7	-	0	During Removal
TECH.						

DRAFT - WORK IN PROGRESS

ENSR	*Client:* HARTFORD WORKING GROUP	***BORING ID:*** VMP-96
	Project Number: 01005-093-351	
	Boring Location: W. Birch and N. Delmar	*Sheet:* 1 of 2
	Survey Coordinates:	*Date/Time Started:* 01/31/05 10:30
	Drilling Method: Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: Adam Lock	*Checked By:* J. Petruccione	*Date/Time Finished:* 01/31/05 19:30
Drilling Co.: Philips Environmental	*Weather:* Overcast high mid 40s	
Drillers: J. Bignall and E. Ivie	*Drilling Equip.:* CME 45	

Depth (feet)	Elevation (in ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID reading (units*) / FID reading (units+)	Lithologic Description	REMARKS / Lab Sample ID
						Asphalt and chips (4")	
1	XXX	1 (0-2.5)	HAND AUGER		14 / 675	**Silty CLAY (CL)** Black silty clay with some trace gravel, low plasticity, dry/moist, medium dense.	
2							
3		2 (2.5-5)			28 / 1870	Change in color to gray.	
4							
5							
6		3 (5-7.5)			14 / 1116	Orange mottle appear Change in color to blue green with orange mottle, low density	
7							
8		4 (7.5-10)			11 / 1720	**Clayey SILT ( )** Blue green with orange mottle, clayey silt, low density, low plasticity.	
9							
10						**SILT ( )**	
11		5 (10-12.5)	SPLIT SPOON	48	1 / 108	**Silty Clay (CL)** Blue green with orange mottle, silty clay, medium plasticity, dense, moist. 3" Silt with some clay seam, wet at 11'	
12							
13		6 (12.5-15)			1 / 214	**SILT ( )** Loose, blue green with orange mottle, silt with some clay, moist/wet, low plasticity, low density	
14							
15		7 (15-17.5)	SPLIT SPOON	48	16 / 1430	**Silty Clay (CL)** Blue green with orange mottle, silty clay, medium plasticity, medium dense, moist.	
16							
17		8 (17.5-20)			18 / 1460	Pick up more clay at 18'	
18							
19							
20		9 (20-22.5)					

Continued on Page 2

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector
* units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector
+ units relative to methane span gas in parts per million (ppm)

LAB ANALYSIS:
SOIL: none submitted
GROUNDWATER: none submitted

DRAFT - WORK IN PROGRESS

ENSR	Client:	HARTFORD WORKING GROUP	BORING ID: VMP-96
	Project Number:	01005-093-351	
	Boring Location:	W. Birch and N. Delmar	Sheet: 2 of 2
	Survey Coordinates:		Date/Time Started: 01/31/05 1035
	Drilling Method:	Hand Auger and Hollow Stem Auger (4.25" ID)	
Logged By: Adam Lock	Checked By:	J. Petruccione	Date/Time Finished: 01/31/05 1930
Drilling Co.: Philips Environmental		Weather: Overcast high mid 40s	
Drillers: J. Bignall and E. Ivie		Drilling Equip.: CME 45	

Depth (feet)	Survey Elevation (in feet AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID reading (units*) / FID reading (units+)	Lithologic Description	REMARKS / Lab Sample ID
21	XXX	9 (20-22.5)	SPLIT SPOON	55	7 / 470	**Silty CLAY (CL) - Cont'd.**	
22						Gradual change to gray **Clayey SILT ( )**	
23		10 (21.5-24)			120 / 4300	Gradual change to gray **Silty SAND ( )**	
24						Gradual change to gray well sorted fine **SAND ( )**	
25		11 (24-26.5)	SPLIT SPOON	50	170 2600	**Clayey SILT ( )** Gray with orange mottle, medium dense 3" well graded medium sand seam, wet at 24.5' 3" well graded medium sand seam, wet at 25.5' 4" dense silt seam, dry/moist at 25.9'	
26							
27		12 (26.5-29)			20 / 630	**Silty fine SAND ( )** Medium density, gray, silty fine sand, wet Pick up more clay and sand, change to moist	
28							
29							
30		13 (29-31.5)	SPLIT SPOON	48	NA	**Silty Clay (CL)** Gray, silty clay, high plasticity, medium densewet (flushed by water) 6" Silt seam @ 30.0'	
31							
32		14 (31.5-34)			NA	6" Silt seam @ 31.5'	
33							
34						**Medium SAND ( )**, well sorted, gray, medium dense, wet, odors **Sandy CLAY ( )**, gray, medium density, wet (flushed)	
35						End of boring at 34 feet below ground surface.	
36							
37							
38							
39							
40							

NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector
* units relative to isobutylene span gas in parts per million (ppm)
FID = Flame Ionization Detector
+ units relative to methane span gas in parts per million (ppm)
Split spoon from 29-34' was flushed numerous times with water because of gas pocket encountered.

LAB ANALYSIS:
SOIL: none submitted
GROUNDWATER: none submitted

APPENDIX E

SOIL VAPOR AND SUBSLAB VAPOR SAMPLE TRACKING TABLE

APPENDIX E
Soil Vapor and Sub-Slab Tracking Table

Hartford, Illinois

Sample Date	Sample ID	Sample Matrix	Analysis Type	Sampling Purpose	Laboratory	Date			Laboratory Sample ID	Laboratory Report Number
						Sampled	Received By Lab	Reported By Lab		
01/05/2005	010505 HCC E		TO-15, TO-14A, ASTM D-1946, A.T.@Meth 82	Vapor Migration	Air Toxics, Ltd.	01/05/2005	01/07/2005	01/27/2005	01A	501095
01/05/2005	010505 HCC WS	Air	TO-15, TO-14A, ASTM D-1946, A.T.@Meth 82	Vapor Migration	Air Toxics, Ltd.	01/05/2005	01/07/2005	01/27/2005	02A	501095
01/05/2005	1505 310 N. Delmar G/A	Air	TO-15, Modified TO-15, TO-14A, ASTM D-1946	Contingency Plan	Air Toxics, Ltd.	01/05/2005	01/07/2005	01/27/2005	03A	501095
01/05/2005	1505 310 N. Delmar G/AS	Air	TO-15, Modified TO-15, TO-14A, ASTM D-1946	Contingency Plan	Air Toxics, Ltd.	01/05/2005	01/07/2005	01/27/2005	04A	501095
01/05/2005	010505 Sewer E	Air	TO-15, Modified TO-15, TO-14A, ASTM D-1946	SEWERS	Air Toxics, Ltd.	01/05/2005	01/07/2005	01/27/2005	05A	501095
01/05/2005	010505 Sewer D	Air	TO-15, Modified TO-15, TO-14A, ASTM D-1946	SEWERS	Air Toxics, Ltd.	01/05/2005	01/07/2005	01/27/2005	06A	501095
01/05/2005	010505 Sewer C	Air	TO-15, Modified TO-15, TO-14A, ASTM D-1946	SEWERS	Air Toxics, Ltd.	01/05/2005	01/07/2005	01/27/2005	07A	501095
01/06/2005	010605-VMP71-VS	Air	TO-15 (ENSR short list),Modified TO-15, TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/06/2005	01/07/2005	01/12/2005	01A	501085
01/06/2005	010605-VMP71-S	Air	TO-15 (ENSR short list),Modified TO-15, TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/06/2005	01/07/2005	01/12/2005	02A	501085
01/06/2005	010605-VMP15-VS	Air	TO-15 (ENSR short list),Modified TO-15, TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/06/2005	01/07/2005	01/12/2005	03A	501085
01/06/2005	010605-VMP15-S	Air	TO-15 (ENSR short list),Modified TO-15, TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/06/2005	01/07/2005	01/12/2005	04A	501085
01/06/2005	010605-VMP70-VS	Air	TO-15 (ENSR short list),Modified TO-15, TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/06/2005	01/07/2005	01/12/2005	05A	501085
01/06/2005	010605-VMP70-S	Air	TO-15 (ENSR short list),Modified TO-15, TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/06/2005	01/07/2005	01/12/2005	06A	501085
01/06/2005	010605-MP64A	Air	TO-15 (ENSR short list),Modified TO-15, TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/06/2005	01/07/2005	01/12/2005	07A	501085
01/06/2005	010605-VMP81-VS	Air	TO-15 (ENSR short list),Modified TO-15, TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/06/2005	01/07/2005	01/12/2005	08A	501085
01/06/2005	010605-VMP81-S	Air	TO-15 (ENSR short list),Modified TO-15, TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/06/2005	01/07/2005	01/12/2005	09A	501085
01/06/2005	1605 313 N. Olive UP	Air	TO-15 (ENSR short list),Modified TO-15, TO-14, ASTM D-1946	Contingency Plan	Air Toxics, Ltd.	01/06/2005	01/07/2005	01/12/2005	01A	501088
01/06/2005	1605 313 N. Olive EXT	Air	TO-15 (ENSR short list),Modified TO-15, TO-14, ASTM D-1946	Contingency Plan	Air Toxics, Ltd.	01/06/2005	01/07/2005	01/12/2005	02A	501088
01/06/2005	1605 313 N. Olive C	Air	TO-15 (ENSR short list),Modified TO-15, TO-14, ASTM D-1946	Contingency Plan	Air Toxics, Ltd.	01/06/2005	01/07/2005	01/12/2005	03A	501088
01/06/2005	1605 313 N. Olive L	Air	TO-15 (ENSR short list),Modified TO-15, TO-14, ASTM D-1946	Contingency Plan	Air Toxics, Ltd.	01/06/2005	01/07/2005	01/12/2005	04A	501088
01/06/2005	1605 313 N. Olive OUT	Air	TO-15 (ENSR short list),Modified TO-15, TO-14, ASTM D-1946	Contingency Plan	Air Toxics, Ltd.	01/06/2005	01/07/2005	01/12/2005	05A	501088
01/06/2005	1605 201 N. Olive BFD	Air	TO-15 (ENSR short list),Modified TO-15, TO-14, ASTM D-1946	Contingency Plan	Air Toxics, Ltd.	01/06/2005	01/07/2005	01/12/2005	06A	501088
01/06/2005	1605 201 N. Olive L	Air	TO-15 (ENSR short list),Modified TO-15, TO-14, ASTM D-1946	Contingency Plan	Air Toxics, Ltd.	01/06/2005	01/07/2005	01/12/2005	07A	501088
01/06/2005	1605 201 N. Olive L Dup	Air	TO-15 (ENSR short list),Modified TO-15, TO-14, ASTM D-1946	Contingency Plan	Air Toxics, Ltd.	01/06/2005	01/07/2005	01/12/2005	08A	501088
01/06/2005	010605 Sewer A	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	SEWERS	Air Toxics, Ltd.	01/06/2005	01/07/2005	01/18/2005	01A	501090
01/06/2005	010605 Sewer A1	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	SEWERS	Air Toxics, Ltd.	01/06/2005	01/07/2005	01/18/2005	02A	501090
01/06/2005	010605 Sewer B	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	SEWERS	Air Toxics, Ltd.	01/06/2005	01/07/2005	01/18/2005	03A	501090
01/06/2005	010605 HCC CS	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	01/06/2005	01/10/2005	01/28/2005	01A	501111
01/06/2005	010605 HCC BR	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	01/06/2005	01/10/2005	01/28/2005	02A	501111
01/06/2005	010605 HCC EH	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	01/06/2005	01/10/2005	01/28/2005	03A	501111
01/06/2005	010605 HCC MR	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	01/06/2005	01/10/2005	01/28/2005	04A	501111
01/06/2005	010605 HCC MRD	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	01/06/2005	01/10/2005	01/28/2005	05A	501111
01/06/2005	010605 HCC K	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	01/06/2005	01/10/2005	01/28/2005	06A	501111
01/06/2005	010605 HCC C	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	01/06/2005	01/10/2005	01/28/2005	07A	501111
01/06/2005	1605 201 N. Olive O/S	Air	TO-15 (ENSR short list),Modified TO-15, TO-14, ASTM D-1946	Contingency Plan	Air Toxics, Ltd.	01/06/2005	01/10/2005	01/13/2005	01A	501104
01/07/2005	010705 HCC VMP CC1	Air	TO-15, TO-14A, ASTM D-1946, A.T.@Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	01/07/2005	01/10/2005	01/27/2005	02A	501104
01/07/2005	010705 HCC VMP CC4	Air	TO-15, TO-14A, ASTM D-1946, A.T.@Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	01/07/2005	01/10/2005	01/27/2005	03A	501104
01/07/2005	010705 HCC VMP CC2	Air	TO-15, TO-14A, ASTM D-1946, A.T.@Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	01/07/2005	01/10/2005	01/27/2005	04A	501104
01/07/2005	010705 HCC VMP CC3	Air	TO-15, TO-14A, ASTM D-1946, A.T.@Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	01/07/2005	01/10/2005	01/27/2005	05A	501104
01/06/2005	010605 HCC E	Air	TO-15, TO-14A, ASTM D-1946, A.T.@Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	01/06/2005	01/10/2005	01/27/2005	06A	501104
01/06/2005	010605 HCC K	Air	TO-15, TO-14A, ASTM D-1946, A.T.@Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	01/06/2005	01/10/2005	01/27/2005	07A	501104
01/06/2005	010605 HCC UWS	Air	TO-15, TO-14A, ASTM D-1946, A.T.@Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	01/06/2005	01/10/2005	01/27/2005	08A	501104
01/10/2005	011005-MP-54A	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/10/2005	01/11/2005	01/26/2005	10A	501144
01/10/2005	011005-MP-54B	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/10/2005	01/11/2005	01/26/2005	11A	501144
01/10/2005	011005-MP-15S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/10/2005	01/11/2005	01/26/2005	12A	501144
01/10/2005	011005-MP-15D	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/10/2005	01/11/2005	01/26/2005	13A	501144
01/10/2005	011005-MP-16S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/10/2005	01/11/2005	01/26/2005	14A	501144
01/10/2005	011005-MP-16D	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/10/2005	01/11/2005	01/26/2005	15A	501144
01/10/2005	011005-MP-56A	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/10/2005	01/11/2005	01/26/2005	16A	501144
01/10/2005	011005-MP-56B	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/10/2005	01/11/2005	01/26/2005	17A	501144
01/10/2005	011005-MP-57A	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/10/2005	01/11/2005	01/26/2005	18A	501144

APPENDIX E
Soil Vapor and Sub-Slab Tracking Table

Hartford, Illinois

Sample Date	Sample ID	Sample Matrix	Analysis Type	Sampling Purpose	Laboratory	Date			Laboratory Sample ID	Laboratory Report Number
						Sampled	Received By Lab	Reported By Lab		
01/10/2005	011005-MP-57B	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/10/2005	01/11/2005	01/26/2005	19A	501144
01/10/2005	011005-MP-55A	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/10/2005	01/11/2005	01/18/2005	30A	501144
01/10/2005	011005-MP-55B	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/10/2005	01/11/2005	01/18/2005	31A	501144
01/10/2005	011005-VMP-68VS	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/10/2005	01/11/2005	01/18/2005	32A	501144
01/10/2005	011005-VMP-68S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/10/2005	01/11/2005	01/18/2005	33A	501144
01/10/2005	011005-VMP-68M	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/10/2005	01/11/2005	01/18/2005	34A	501144
01/10/2005	011005-VMP-68D	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/10/2005	01/11/2005	01/18/2005	35A	501144
01/10/2005	011005-VMP-74VS	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/10/2005	01/11/2005	01/18/2005	36A	501144
01/10/2005	011005-VMP-74M	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/10/2005	01/11/2005	01/18/2005	37A	501144
01/10/2005	011005-VMP-74D	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/10/2005	01/11/2005	01/18/2005	38A	501144
01/10/2005	011005-VMP-15S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/10/2005	01/11/2005	01/26/2005	01A	501144
01/10/2005	011005-VMP-15M	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/10/2005	01/11/2005	01/26/2005	02A	501144
01/10/2005	011005-VMP-15D	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/10/2005	01/11/2005	01/26/2005	03A	501144
01/10/2005	011005-VMP-75VS	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/10/2005	01/11/2005	01/26/2005	04A	501144
01/10/2005	011005-VMP-75S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/10/2005	01/11/2005	01/26/2005	05A	501144
01/10/2005	011005-VMP-75D	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/10/2005	01/11/2005	01/26/2005	06A	501144
01/10/2005	011005-VMP-76VS	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/10/2005	01/11/2005	01/26/2005	07A	501144
01/10/2005	011005-VMP-76S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/10/2005	01/11/2005	01/26/2005	08A	501144
01/10/2005	011005-VMP-76M	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/10/2005	01/11/2005	01/26/2005	09A	501144
01/10/2005	011005-VMP-71VS	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/10/2005	01/11/2005	01/18/2005	20A	501144
01/10/2005	011005-VMP-71S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/10/2005	01/11/2005	01/18/2005	21A	501144
01/10/2005	011005-VMP-71D	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/10/2005	01/11/2005	01/18/2005	22A-Cancelled	501144
01/10/2005	011005-VMP-71D DUP	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/10/2005	01/11/2005	01/18/2005	23A-Cancelled	501144
01/10/2005	011005-VMP-70VS	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/10/2005	01/11/2005	01/18/2005	24A-Cancelled	501144
01/10/2005	011005-VMP-70S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/10/2005	01/11/2005	01/18/2005	25A	501144
01/10/2005	011005-VMP-70M	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/10/2005	01/11/2005	01/18/2005	26A	501144
01/10/2005	011005-VMP-69VS	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/10/2005	01/11/2005	01/18/2005	27A	501144
01/10/2005	011005-VMP-69M	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/10/2005	01/11/2005	01/18/2005	28A	501144
01/10/2005	011005-VMP-69D	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/10/2005	01/11/2005	01/18/2005	29A	501144
01/10/2005	011005-318NDelmar-B	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Contingency Plan	Air Toxics, Ltd.	01/10/2005	01/11/2005	01/13/2005	01A	501125
01/10/2005	011005-318NDelmar-1	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Contingency Plan	Air Toxics, Ltd.	01/10/2005	01/11/2005	01/13/2005	02A	501125
01/10/2005	011005-318NDelmar-E	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Contingency Plan	Air Toxics, Ltd.	01/10/2005	01/11/2005	01/13/2005	03A	501125
01/11/2005	011105-MP-52A	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/11/2005	01/12/2005	01/19/2005	36A	501149
01/11/2005	011105-MP-52A Dup	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/11/2005	01/12/2005	01/19/2005	01A	501149
01/11/2005	011105-MP-52B	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/11/2005	01/12/2005	01/19/2005	37A	501149
01/11/2005	011105-MP-53A	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/11/2005	01/13/2005	01/21/2005	57A	501163
01/11/2005	011105-MP-53B	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/11/2005	01/13/2005	01/21/2005	58A	501163
01/11/2005	011105-VMP-18S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/11/2005	01/12/2005	01/19/2005	02A	501149
01/11/2005	011105-VMP-18D	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/11/2005	01/12/2005	01/19/2005	03A	501149
01/11/2005	011105-VMP-18D Dup	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/11/2005	01/12/2005	01/19/2005	04A	501149
01/11/2005	011105-MP-59A	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/11/2005	01/12/2005	01/19/2005	05A	501149
01/11/2005	011105-VMP-80VS	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/11/2005	01/12/2005	01/19/2005	06A	501149
01/11/2005	011105-VMP-80S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/11/2005	01/12/2005	01/19/2005	07A	501149
01/11/2005	011105-VMP-80M	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/11/2005	01/12/2005	01/19/2005	08A	501149
01/11/2005	011105-VMP-80M Dup	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/11/2005	01/12/2005	01/19/2005	18A	501149
01/11/2005	011105-VMP-80D	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/11/2005	01/12/2005	01/19/2005	17A	501149
01/11/2005	011105-MP11S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/11/2005	01/12/2005	01/19/2005	09A	501149
01/11/2005	011105-MP11D	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/11/2005	01/12/2005	01/19/2005	10A	501149
01/11/2005	011105-MP12S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/11/2005	01/12/2005	01/19/2005	11A	501149
01/11/2005	011105-MP12D	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/11/2005	01/12/2005	01/19/2005	12A	501149

APPENDIX E
Soil Vapor and Sub-Slab Tracking Table

Hartford, Illinois

Sample Date	Sample ID	Sample Matrix	Analysis Type	Sampling Purpose	Laboratory	Date			Laboratory Sample ID	Laboratory Report Number
						Sampled	Received By Lab	Reported By Lab		
01/11/2005	011105-MP43A	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/11/2005	01/12/2005	01/19/2005	13A	501149
01/11/2005	011105-MP43B	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/11/2005	01/12/2005	01/19/2005	14A	501149
01/11/2005	011105-MP65A	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/11/2005	01/12/2005	01/19/2005	15A	501149
01/11/2005	011105-MP-65B	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/11/2005	01/12/2005	01/19/2005	16A	501149
01/11/2005	011105-MP-61A	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/11/2005	01/12/2005	01/19/2005	29A	501149
01/11/2005	011105-MP-61B	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/11/2005	01/12/2005	01/19/2005	30A	501149
01/11/2005	011105-VMP-78VS	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/11/2005	01/12/2005	01/19/2005	31A	501149
01/11/2005	011105-VMP-78S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/11/2005	01/12/2005	01/19/2005	32A	501149
01/11/2005	011105-VMP-78M	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/11/2005	01/12/2005	01/19/2005	33A	501149
01/11/2005	011105-VMP-78D	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/11/2005	01/12/2005	01/19/2005	34A	501149
01/11/2005	011105-VMP-36S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/11/2005	01/12/2005	01/19/2005	35A	501149
01/11/2005	011105-VMP72-VS	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/11/2005	01/12/2005	01/19/2005	19A	501149
01/11/2005	011105-VMP72-VS DUP	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/11/2005	01/12/2005	01/19/2005	20A	501149
01/11/2005	011105-VMP72-S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/11/2005	01/12/2005	01/19/2005	21A	501149
01/11/2005	011105VMP72-M	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/11/2005	01/12/2005	01/19/2005	22A	501149
01/11/2005	011105-VMP72-D	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/11/2005	01/12/2005	01/19/2005	23A	501149
01/11/2005	011105-VMP30VS	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/11/2005	01/12/2005	01/19/2005	24A	501149
01/11/2005	011105-VMP30S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/11/2005	01/12/2005	01/19/2005	25A	501149
01/11/2005	011105-VMP30S Dup	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/11/2005	01/12/2005	01/19/2005	26A	501149
01/11/2005	011105-VMP30 M	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/11/2005	01/12/2005	01/19/2005	27A	501149
01/11/2005	011105-VMP30D	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/11/2005	01/12/2005	01/19/2005	28A	501149
01/11/2005	011105-309NOLIVE-E30	Air	TO15	Effectiveness Testing	Air Toxics, Ltd.	01/11/2005	01/12/2005	01/25/2005	01A	501221
01/11/2005	011105-309NOLIVE-1	Air	TO15	Effectiveness Testing	Air Toxics, Ltd.	01/11/2005	01/12/2005	01/25/2005	02A	501221
01/11/2005	011105-309NOLIVE-B	Air	TO15	Effectiveness Testing	Air Toxics, Ltd.	01/11/2005	01/12/2005	01/25/2005	03A	501221
01/11/2005	011105-6NDELMAR-1	Air	TO15	Effectiveness Testing	Air Toxics, Ltd.	01/11/2005	01/12/2005	01/26/2005	01A	501223
01/11/2005	011105-6NDELMAR-E30	Air	TO15	Effectiveness Testing	Air Toxics, Ltd.	01/11/2005	01/12/2005	01/26/2005	02A	501223
01/11/2005	011105-6NDELMAR-E	Air	TO15	Effectiveness Testing	Air Toxics, Ltd.	01/11/2005	01/13/2005	01/18/2005	01A	501166
01/11/2005	011105-119WDATE-B	Air	TO15	Effectiveness Testing	Air Toxics, Ltd.	01/11/2005	01/12/2005	01/26/2005	01A	501222
01/11/2005	011105-119WDATE-1	Air	TO15	Effectiveness Testing	Air Toxics, Ltd.	01/11/2005	01/12/2005	01/26/2005	02A	501222
01/11/2005	011105-119WDATE-E30	Air	TO15	Effectiveness Testing	Air Toxics, Ltd.	01/11/2005	01/12/2005	01/26/2005	03A	501222
01/11/2005	011105-119WDATE-E	Air	TO15	Effectiveness Testing	Air Toxics, Ltd.	01/11/2005	01/13/2005	01/19/2005	01A	501164
01/12/2005	011205-MP-18	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	02/08/2005	01A	501163
01/12/2005	011205-MP19	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	02/08/2005	02A	501163
01/12/2005	011205-MP20	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	02/08/2005	03A	501163
01/12/2005	011205-MP21	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	02/08/2005	04A	501163
01/12/2005	011205-MP22	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/25/2005	05A	501163
01/12/2005	011205-MP-24	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/25/2005	06A	501163
01/12/2005	011205-MP24 Dup	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/25/2005	07A	501163
01/12/2005	011205-VMP34VS	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/25/2005	08A	501163
01/12/2005	011205-VMP34S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/25/2005	09A	501163
01/12/2005	011205-VMP34M	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/25/2005	10A	501163
01/12/2005	011205-VMP34D	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/26/2005	21A	501163
01/12/2005	011205-MP60A	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/25/2005	11A	501163
01/12/2005	011205-MP60B	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/25/2005	12A	501163
01/12/2005	011205-MP60C	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/25/2005	13A	501163
01/12/2005	011205-MP29B	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	02/08/2005	14A	501163
01/12/2005	011205-MP29C	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	02/08/2005	15A	501163
01/12/2005	011205-MP62A	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/25/2005	16A	501163
01/12/2005	011205-MP62A Dup	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/25/2005	16AA	501163
01/12/2005	011205-MP62B	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	02/08/2005	17A	501163
01/12/2005	011205-MP62C	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/25/2005	18A	501163

APPENDIX E
Soil Vapor and Sub-Slab Tracking Table

Hartford, Illinois

Sample Date	Sample ID	Sample Matrix	Analysis Type	Sampling Purpose	Laboratory	Date			Laboratory Sample ID	Laboratory Report Number
						Sampled	Received By Lab	Reported By Lab		
01/12/2005	011205-VMP32VS	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/25/2005	20A	501163
01/12/2005	011205-VMP32S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/26/2005	22A	501163
01/12/2005	011205-VMP32S Dup	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/26/2005	23A	501163
01/12/2005	011205-VMP32M	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	02/08/2005	24A	501163
01/12/2005	011205-VMP32D	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	02/08/2005	25A	501163
01/12/2005	011205-VMP-85VS	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/26/2005	26A	501163
01/12/2005	011205-VMP-85S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/26/2005	27A	501163
01/12/2005	011205-VMP-85M	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/26/2005	28A	501163
01/12/2005	011205-VMP-85D	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/26/2005	29A	501163
01/12/2005	011205-VMP-17M	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/26/2005	30A	501163
01/12/2005	011205-VMP-17D	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/26/2005	31A	501163
01/12/2005	011205-VMP-42VS	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/26/2005	32A	501163
01/12/2005	011205-VMP-42S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/26/2005	33A	501163
01/12/2005	011205-VMP-42M	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/26/2005	34A	501163
01/12/2005	011205-VMP-42D	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/26/2005	35A	501163
01/12/2005	011205-MP-33A	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/26/2005	36A	501163
01/12/2005	011205-MP-33B	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/26/2005	37A	501163
01/12/2005	011205-MP-33C	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	02/08/2005	38A	501163
01/12/2005	011205-VMP-81VS	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/26/2005	39A	501163
01/12/2005	011205-VMP-81S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/26/2005	40A	501163
01/12/2005	011205-VMP-81M	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/21/2005	41A	501163
01/12/2005	011205-VMP-81D	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/21/2005	42A	501163
01/12/2005	011205-VMP-44VS	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/21/2005	43A	501163
01/12/2005	011205-VMP-44VS Dup	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/21/2005	44A	501163
01/12/2005	011205-VMP-44S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/21/2005	45A	501163
01/12/2005	011205-VMP-44M	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	02/08/2005	46A	501163
01/12/2005	011205-VMP-44D	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	02/08/2005	47A	501163
01/12/2005	011205-MP-39A	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/21/2005	48A	501163
01/12/2005	011205-MP-39B	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/21/2005	49A	501163
01/12/2005	011205-MP-39C	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/21/2005	50A	501163
01/12/2005	011205-MP-32A	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/21/2005	51A	501163
01/12/2005	011205-MP-32B	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/21/2005	52A	501163
01/12/2005	011205-MP-32C	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/21/2005	53A	501163
01/12/2005	011205-VMP-82VS	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/21/2005	54A	501163
01/12/2005	011205-VMP-82S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/21/2005	55A	501163
01/12/2005	011205-VMP-82M	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/21/2005	56A	501163
01/12/2005	011205-HCC-VMP-CC9 DUP	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Sub-Slab	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/26/2005	01A	501168
01/12/2005	011205-HCC-VMP-CC9	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Sub-Slab	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/26/2005	02A	501168
01/12/2005	011205-HCC-VMP-CC1	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Sub-Slab	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/26/2005	03A	501168
01/12/2005	011205-HCC-VMP-CC2	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Sub-Slab	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/26/2005	04A	501168
01/12/2005	011205-HCC-VMP-CC3	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Sub-Slab	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/26/2005	05A	501168
01/12/2005	011205-HCC-VMP-CC4	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Sub-Slab	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/26/2005	06A	501168
01/12/2005	011205-HCC-VMP-CC5	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Sub-Slab	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/26/2005	07A	501168
01/12/2005	011205-HCC-VMP-CC6	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Sub-Slab	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/26/2005	08A	501168
01/12/2005	011205-HCC-VMP-CC7	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Sub-Slab	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/26/2005	09A	501168
01/12/2005	011205-HCC-VMP-CC7D	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Sub-Slab	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/26/2005	10A	501168
01/12/2005	011205-HCC-VMP-CC8	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Sub-Slab	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/26/2005	11A	501168
01/12/2005	011205-HCC-VMP-CC10	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Sub-Slab	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/26/2005	12A	501168
01/12/2005	011205-HCC-VMP-CC11	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Sub-Slab	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/26/2005	13A	501168
01/12/2005	0111205-HCC-VMP-CC12	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Sub-Slab	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/26/2005	14A	501168
01/12/2005	0112205-HCC-VMP-Exterior	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Sub-Slab	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/26/2005	15A	501168

APPENDIX E
Soil Vapor and Sub-Slab Tracking Table

Hartford, Illinois

Sample Date	Sample ID	Sample Matrix	Analysis Type	Sampling Purpose	Laboratory	Date			Laboratory Sample ID	Laboratory Report Number
						Sampled	Received By Lab	Reported By Lab		
01/12/2005	011205-HCC Exterior	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Vapor Migration	Air Toxics, Ltd.	01/12/2005	01/14/2005	01/27/2005	01A	501201
01/12/2005	011205-HCC UWS	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	01/12/2005	01/14/2005	01/27/2005	02A	501201
01/12/2005	011205-HCC EH	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	01/12/2005	01/14/2005	01/27/2005	03A	501201
01/12/2005	011205-HCC K	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	01/12/2005	01/14/2005	01/27/2005	04A	501201
01/12/2005	011205-HCC CC	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	01/12/2005	01/14/2005	01/27/2005	05A	501201
01/12/2005	011205-HCC CC Dup	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	01/12/2005	01/14/2005	01/27/2005	06A	501201
01/12/2005	011205-HCC BR	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	01/12/2005	01/14/2005	02/07/2005	07A	501201
01/12/2005	011205-HCC MR	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	01/12/2005	01/14/2005	01/27/2005	08A	501201
01/12/2005	011205-HCC C	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	01/12/2005	01/14/2005	02/07/2005	09A	501201
01/12/2005	011205-HCC KC	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	01/12/2005	01/14/2005	02/07/2005	10A	501201
01/12/2005	011205-19NOlive-B	Air	TO15	Effectiveness Testing	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/28/2005	01A	501179
01/12/2005	011205-19NOlive-1	Air	TO15	Effectiveness Testing	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/28/2005	02A	501179
01/12/2005	011205-19NOlive-E30	Air	TO15	Effectiveness Testing	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/28/2005	03A	501179
01/12/2005	011205-19NOlive-E	Air	TO15	Effectiveness Testing	Air Toxics, Ltd.	01/12/2005	01/14/2005	01/20/2005	01A	501191
01/12/2005	011205-120WCherry-B	Air	TO15	Effectiveness Testing	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/28/2005	01A	501178
01/12/2005	011205-120WCherry-1	Air	TO15	Effectiveness Testing	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/28/2005	02A	501178
01/12/2005	011205-120WCherry-E30	Air	TO15	Effectiveness Testing	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/28/2005	03A	501178
01/12/2005	011205-100OldStLouis-E30	Air	TO15	Effectiveness Testing	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/28/2005	01A	501177
01/12/2005	011205-100OldStLouis-1	Air	TO15	Effectiveness Testing	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/28/2005	02A	501177
01/12/2005	011205-100OldStLouis-CS	Air	TO15	Effectiveness Testing	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/28/2005	03A	501177
01/12/2005	011205-118WCherry-B	Air	TO15	Effectiveness Testing	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/28/2005	01A	501180
01/12/2005	011205-118WCherry-B Dup	Air	TO15	Effectiveness Testing	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/28/2005	02A	501180
01/12/2005	011205-118WCherry-1	Air	TO15	Effectiveness Testing	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/28/2005	02A	501180
01/12/2005	011205-118WCherry-E30	Air	TO15	Effectiveness Testing	Air Toxics, Ltd.	01/12/2005	01/13/2005	01/28/2005	02A	501180
01/13/2005	011305-VMP-19S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/13/2005	01/14/2005	01/27/2005	01A	501203
01/13/2005	011305-VMP-19M	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/13/2005	01/14/2005	01/27/2005	02A	501203
01/13/2005	011305-VMP-19D	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/13/2005	01/14/2005	01/27/2005	03A	501203
01/13/2005	011305-VMP-86VS	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/13/2005	01/14/2005	01/27/2005	04A	501203
01/13/2005	011305-VMP-86S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/13/2005	01/14/2005	01/27/2005	05A	501203
01/13/2005	011305-VMP-86M	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/13/2005	01/14/2005	01/27/2005	06A	501203
01/13/2005	011305-VMP-86D	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/13/2005	01/14/2005	01/27/2005	07A	501203
01/13/2005	011305-VMP-3	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/13/2005	01/14/2005	02/03/2005	08A	501203
01/13/2005	011305-VMP-26M	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/13/2005	01/14/2005	02/03/2005	09A	501203
01/13/2005	011305-VMP-26D	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/13/2005	01/14/2005	01/27/2005	10A	501203
01/13/2005	011305-VMP-1S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/13/2005	01/14/2005	01/27/2005	11A	501203
01/13/2005	011305-VMP-1D	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/13/2005	01/14/2005	02/03/2005	12A	501203
01/13/2005	011305-VMP-2D	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/13/2005	01/14/2005	02/03/2005	13A	501203
01/13/2005	011305-VMP31VS	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/13/2005	01/14/2005	01/21/2005	14A	501203
01/13/2005	011305-VMP31S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/13/2005	01/14/2005	01/21/2005	15A	501203
01/13/2005	011305-VMP31AM	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/13/2005	01/14/2005	01/21/2005	16A	501203
01/13/2005	011305-VMP31D	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/13/2005	01/14/2005	01/21/2005	17A	501203
01/13/2005	011305-VMP35VS	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/13/2005	01/14/2005	01/21/2005	18A	501203
01/13/2005	011305-VMP35M	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/13/2005	01/14/2005	01/21/2005	19A	501203
01/13/2005	011305-VMP35D	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/13/2005	01/14/2005	01/21/2005	20A	501203
01/13/2005	011305-VMP43VS	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/13/2005	01/14/2005	01/21/2005	21A	501203
01/13/2005	011305-VMP43S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/13/2005	01/14/2005	01/21/2005	22A	501203
01/13/2005	011305-VMP43S Dup	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/13/2005	01/14/2005	01/21/2005	23A	501203
01/13/2005	011305-VMP43M	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/13/2005	01/14/2005	01/21/2005	24A	501203
01/13/2005	011305-1SMarket-B	Air	TO15	Effectiveness Testing	Air Toxics, Ltd.	01/13/2005	01/14/2005	Not listed	01A	501189
01/13/2005	011305-1SMarket-1	Air	TO15	Effectiveness Testing	Air Toxics, Ltd.	01/13/2005	01/14/2005	Not listed	02A	501189
01/13/2005	011305-1SMarket-E30	Air	TO15	Effectiveness Testing	Air Toxics, Ltd.	01/13/2005	01/14/2005	Not listed	03A	501189

APPENDIX E
Soil Vapor and Sub-Slab Tracking Table

Hartford, Illinois

Sample Date	Sample ID	Sample Matrix	Analysis Type	Sampling Purpose	Laboratory	Date			Laboratory Sample ID	Laboratory Report Number
						Sampled	Received By Lab	Reported By Lab		
01/13/2005	011305-139EForest-CS	Air	TO15	Effectiveness Testing	Air Toxics, Ltd.	01/13/2005	01/14/2005	01/30/2005	01A	501190
01/13/2005	011305-139EForest-1	Air	TO15	Effectiveness Testing	Air Toxics, Ltd.	01/13/2005	01/14/2005	01/30/2005	02A	501190
01/13/2005	011305-139EForest-E30	Air	TO15	Effectiveness Testing	Air Toxics, Ltd.	01/13/2005	01/14/2005	01/30/2005	03A	501190
01/14/2005	011405-MP-31A	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/14/2005	01/18/2005	01/31/2005	01A	501247
01/14/2005	011405-MP-31B	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/14/2005	01/18/2005	01/31/2005	02A	501247
01/14/2005	011405-MP-31C	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/14/2005	01/18/2005	01/31/2005	03A	501247
01/14/2005	011405-MP-30A	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/14/2005	01/18/2005	01/31/2005	04A	501247
01/14/2005	011405-MP-30B	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/14/2005	01/18/2005	01/31/2005	05A	501247
01/14/2005	011405-MP-30C	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/14/2005	01/18/2005	02/04/2005	06A	501247
01/14/2005	011405-VMP-12VS	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/14/2005	01/18/2005	02/04/2005	07A	501247
01/14/2005	011405-VMP-12M	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/14/2005	01/18/2005	02/04/2005	08A	501247
01/14/2005	011405-VMP-21S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/14/2005	01/18/2005	02/04/2005	09A	501247
01/14/2005	011405-VMP-21M	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/14/2005	01/18/2005	01/31/2005	10A	501247
01/14/2005	011405-VMP-21M Dup	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/14/2005	01/18/2005	01/31/2005	11A	501247
01/14/2005	011405-VMP-21D	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/14/2005	01/18/2005	01/31/2005	12A	501247
01/17/2005	011705-VMP-39VS	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/17/2005	01/18/2005	01/25/2005	01A	501238
01/17/2005	011705-VMP-39S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/17/2005	01/18/2005	01/25/2005	02A	501238
01/17/2005	011705-VMP-39M	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/17/2005	01/18/2005	01/25/2005	03A	501238
01/17/2005	011705-VMP-39D	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/17/2005	01/18/2005	01/25/2005	04A	501238
01/17/2005	011705-VMP-20S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/17/2005	01/18/2005	01/25/2005	05A	501238
01/17/2005	011705-VMP-20M	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/17/2005	01/18/2005	01/25/2005	06A	501238
01/17/2005	011705-VMP-20M Dup	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/17/2005	01/18/2005	01/25/2005	07A	501238
01/17/2005	011705-VMP-20D	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/17/2005	01/18/2005	01/25/2005	08A	501238
01/17/2005	011705-VMP-67VS	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/17/2005	01/18/2005	01/25/2005	09A	501238
01/17/2005	011705-VMP-67VS Dup	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/17/2005	01/18/2005	01/25/2005	10A	501238
01/17/2005	011705-VMP-67S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/17/2005	01/18/2005	01/25/2005	11A	501238
01/17/2005	011705-VMP-67M	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/17/2005	01/18/2005	01/25/2005	12A	501238
01/17/2005	011705-VMP-66VS	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/17/2005	01/18/2005	01/25/2005	13A	501238
01/17/2005	011705-VMP-66S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/17/2005	01/18/2005	01/25/2005	14A	501238
01/17/2005	011705-VMP-66M	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/17/2005	01/18/2005	01/25/2005	15A	501238
01/17/2005	011705-VMP-67D	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/17/2005	01/18/2005	01/25/2005	16A	501238
01/17/2005	011705-VMP-83VS	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/17/2005	01/18/2005	01/25/2005	17A	501238
01/17/2005	011705-VMP-83S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/17/2005	01/18/2005	01/25/2005	18A	501238
01/17/2005	011705-VMP-83M	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/17/2005	01/18/2005	01/25/2005	19A	501238
01/17/2005	011705-VMP-83D	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/17/2005	01/18/2005	01/25/2005	20A	501238
01/17/2005	011705-VMP-79VS	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/17/2005	01/18/2005	01/25/2005	21A	501238
01/17/2005	011705-VMP-79M	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/17/2005	01/18/2005	01/25/2005	22A	501238
01/17/2005	011705-VMP-79MDup	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/17/2005	01/18/2005	01/25/2005	23A	501238
01/17/2005	011705-VMP-79D	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/17/2005	01/18/2005	01/25/2005	24A	501238
01/17/2005	011705-VMP-84VS	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/17/2005	01/18/2005	01/25/2005	25A	501238
01/17/2005	011705-VMP-84S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/17/2005	01/18/2005	01/25/2005	26A	501238
01/17/2005	011705-VMP-84M	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/17/2005	01/18/2005	01/25/2005	27A	501238
01/17/2005	011705-VMP-884D	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/17/2005	01/18/2005	01/25/2005	28A	501238
01/17/2005	011705-VMP-73VS	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/17/2005	01/18/2005	01/25/2005	29A	501238
01/17/2005	011705-VMP-73S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/17/2005	01/18/2005	01/25/2005	30A	501238
01/17/2005	011705-VMP-73M	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/17/2005	01/18/2005	01/25/2005	31A	501238
01/17/2005	011705-VMP-73D	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/17/2005	01/18/2005	01/25/2005	32A	501238
01/17/2005	011705-MP-40A	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/17/2005	01/18/2005	01/25/2005	33A	501238
01/17/2005	011705-MP-40B	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/17/2005	01/18/2005	01/25/2005	34A	501238
01/17/2005	011705-309NOlive-B	Air	TO-15-BTEX	Resident Sub-slab	Air Toxics, Ltd.	01/17/2005	01/19/2005	01/31/2005	28A	501253
01/17/2005	011705-309NOlive-E	Air	TO-15-BTEX	Resident Sub-slab	Air Toxics, Ltd.	01/17/2005	01/19/2005	01/31/2005	30A	501253

APPENDIX E
Soil Vapor and Sub-Slab Tracking Table

Hartford, Illinois

Sample Date	Sample ID	Sample Matrix	Analysis Type	Sampling Purpose	Laboratory	Date			Laboratory Sample ID	Laboratory Report Number
						Sampled	Received By Lab	Reported By Lab		
01/17/2005	011705-309NOlive-SS-S	Air	TO-15-BTEX, ASTM D-1946	Resident Sub-slab	Air Toxics, Ltd.	01/17/2005	01/19/2005	01/31/2005	31A	501253
01/17/2005	011705-309NOlive-SS-SW	Air	TO-15-BTEX, ASTM D-1946	Resident Sub-slab	Air Toxics, Ltd.	01/17/2005	01/19/2005	01/31/2005	32A	501253
01/17/2005	011705-309NOlive-SS-NE	Air	TO-15-BTEX, ASTM D-1946	Resident Sub-slab	Air Toxics, Ltd.	01/17/2005	01/19/2005	01/31/2005	29A	501253
01/17/2005	011705-Ccloset	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	01/17/2005	01/20/2005	01/31/2005	01A	501298
01/17/2005	011705-UWS	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	01/17/2005	01/20/2005	01/31/2005	02A	501298
01/17/2005	011705-BR	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	01/17/2005	01/20/2005	01/31/2005	03A	501298
01/17/2005	011705-EH	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	01/17/2005	01/20/2005	01/31/2005	04A	501298
01/17/2005	011705-EH Dup	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	01/17/2005	01/20/2005	01/31/2005	05A	501298
01/17/2005	011705-MR	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	01/17/2005	01/20/2005	01/31/2005	06A	501298
01/17/2005	011705-KC	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	01/17/2005	01/20/2005	01/31/2005	07A	501298
01/17/2005	011705-K	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	01/17/2005	01/20/2005	01/31/2005	08A	501298
01/17/2005	011705-C	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	01/17/2005	01/20/2005	01/31/2005	09A	501298
01/17/2005	011705-E	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	01/17/2005	01/20/2005	01/31/2005	10A	501298
01/18/2005	011805-VMP-27S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/18/2005	01/19/2005	01/28/2005	01A	501253
01/18/2005	011805-VMP-27S Dup	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/18/2005	01/19/2005	01/28/2005	02A	501253
01/18/2005	011805-VMP-25M	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/18/2005	01/19/2005	01/28/2005	03A	501253
01/18/2005	011805-VMP-24M	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/18/2005	01/19/2005	01/28/2005	04A	501253
01/18/2005	011805-VMP-54VS	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/18/2005	01/19/2005	01/28/2005	05A	501253
01/18/2005	011805-VMP-54D	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/18/2005	01/19/2005	01/28/2005	06A	501253
01/18/2005	011805-VMP-55VS	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/18/2005	01/19/2005	01/28/2005	07A	501253
01/18/2005	011805-VMP-55S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/18/2005	01/19/2005	01/28/2005	08A	501253
01/18/2005	011805-VMP-55S Dup	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/18/2005	01/19/2005	01/28/2005	09A	501253
01/18/2005	011805-VMP-7	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/18/2005	01/19/2005	01/28/2005	10A	501253
01/18/2005	011805-VMP-77VS	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/18/2005	01/19/2005	01/28/2005	11A	501253
01/18/2005	011805-VMP-77S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/18/2005	01/19/2005	01/28/2005	12A	501253
01/18/2005	011805-VMP-77D	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/18/2005	01/19/2005	01/28/2005	13A	501253
01/18/2005	011805-VMP-61VS	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/18/2005	01/19/2005	01/28/2005	14A	501253
01/18/2005	011805-VMP-61S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/18/2005	01/19/2005	01/28/2005	15A	501253
01/18/2005	011805-VMP-61M	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/18/2005	01/19/2005	01/28/2005	16A	501253
01/18/2005	011805-VMP-61D	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/18/2005	01/19/2005	01/28/2005	17A	501253
01/18/2005	011805-VMP-23M	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/18/2005	01/19/2005	01/28/2005	18A	501253
01/18/2005	011805-VMP-23M Dup	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/18/2005	01/19/2005	01/28/2005	19A	501253
01/18/2005	011805-VMP-10	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/18/2005	01/19/2005	01/28/2005	20A	501253
01/18/2005	011805-VMP-22S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/18/2005	01/19/2005	01/28/2005	21A	501253
01/18/2005	011805-VMP-22M	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/18/2005	01/19/2005	01/28/2005	22A	501253
01/18/2005	011805-VMP-22D	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/18/2005	01/19/2005	01/28/2005	23A	501253
01/18/2005	011805-VP2	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/18/2005	01/19/2005	01/28/2005	24A	501253
01/18/2005	011805-VP4S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/18/2005	01/19/2005	01/28/2005	25A	501253
01/18/2005	011805-VP4M	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/18/2005	01/19/2005	01/28/2005	26A	501253
01/18/2005	011805-VP5	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/18/2005	01/19/2005	01/28/2005	27A	501253
01/18/2005	011805-HCC-CC1	Air	TO-15, TO-14, ASTM D-1946	Sub-Slab	Air Toxics, Ltd.	01/18/2005	01/19/2005	02/08/2005	01A	501251
01/18/2005	011805-HCC-CC2	Air	TO-15, TO-14, ASTM D-1946	Sub-Slab	Air Toxics, Ltd.	01/18/2005	01/19/2005	02/08/2005	02A	501251
01/18/2005	011805-HCC-CC3	Air	TO-15, TO-14, ASTM D-1946	Sub-Slab	Air Toxics, Ltd.	01/18/2005	01/19/2005	02/08/2005	03A	501251
01/18/2005	011805-HCC-CC4	Air	TO-15, TO-14, ASTM D-1946	Sub-Slab	Air Toxics, Ltd.	01/18/2005	01/19/2005	02/08/2005	04A	501251
01/18/2005	011805-HCC-CC5	Air	TO-15, TO-14, ASTM D-1946	Sub-Slab	Air Toxics, Ltd.	01/18/2005	01/19/2005	02/08/2005	05A	501251
01/18/2005	011805-HCC-CC6	Air	TO-15, TO-14, ASTM D-1946	Sub-Slab	Air Toxics, Ltd.	01/18/2005	01/19/2005	02/08/2005	06A	501251
01/18/2005	011805-HCC-CC7	Air	TO-15, TO-14, ASTM D-1946	Sub-Slab	Air Toxics, Ltd.	01/18/2005	01/19/2005	02/08/2005	07A	501251
01/18/2005	011805-HCC-CC7 Dup	Air	TO-15, TO-14, ASTM D-1946	Sub-Slab	Air Toxics, Ltd.	01/18/2005	01/19/2005	02/08/2005	08A	501251
01/18/2005	011805-HCC-CC7D	Air	TO-15, TO-14, ASTM D-1946	Sub-Slab	Air Toxics, Ltd.	01/18/2005	01/19/2005	02/08/2005	09A	501251
01/18/2005	011805-HCC-CC8	Air	TO-15, TO-14, ASTM D-1946	Sub-Slab	Air Toxics, Ltd.	01/18/2005	01/19/2005	02/08/2005	10A	501251
01/18/2005	011805-HCC-CC9	Air	TO-15, TO-14, ASTM D-1946	Sub-Slab	Air Toxics, Ltd.	01/18/2005	01/19/2005	02/08/2005	11A	501251

APPENDIX E
Soil Vapor and Sub-Slab Tracking Table

Hartford, Illinois

Sample Date	Sample ID	Sample Matrix	Analysis Type	Sampling Purpose	Laboratory	Date			Laboratory Sample ID	Laboratory Report Number
						Sampled	Received By Lab	Reported By Lab		
01/18/2005	011805-HCC-CC10	Air	TO-15, TO-14, ASTM D-1946	Sub-Slab	Air Toxics, Ltd.	01/18/2005	01/19/2005	02/08/2005	12A	501251
01/18/2005	011805-HCC-CC11	Air	TO-15, TO-14, ASTM D-1946	Sub-Slab	Air Toxics, Ltd.	01/18/2005	01/19/2005	02/08/2005	13A	501251
01/18/2005	011805-HCC-CC12	Air	TO-15, TO-14, ASTM D-1946	Sub-Slab	Air Toxics, Ltd.	01/18/2005	01/19/2005	02/08/2005	14A	501251
01/18/2005	011805-130WWatkins-E24	Air	TO-15-BTEX	Effectiveness Testing	Air Toxics, Ltd.	01/18/2005	01/20/2005	02/01/2005	01A	501299
01/18/2005	011805-130WWatkins-E30	Air	TO-15-BTEX	Effectiveness Testing	Air Toxics, Ltd.	01/18/2005	01/20/2005	02/01/2005	02A	501299
01/18/2005	011805-130WWatkins-LR	Air	TO-15-BTEX	Effectiveness Testing	Air Toxics, Ltd.	01/18/2005	01/20/2005	02/01/2005	03A	501299
01/18/2005	011805-130WWatkins-B	Air	TO-15-BTEX	Effectiveness Testing	Air Toxics, Ltd.	01/18/2005	01/20/2005	02/01/2005	04A	501299
01/18/2005	011805-123WWatkins-E24	Air	TO-15-BTEX	Effectiveness Testing	Air Toxics, Ltd.	01/18/2005	01/20/2005	02/01/2005	01A	501300
01/18/2005	011805-123WWatkins-B	Air	TO-15-BTEX	Effectiveness Testing	Air Toxics, Ltd.	01/18/2005	01/20/2005	02/01/2005	02A	501300
01/18/2005	011805-123WWatkins-DR	Air	TO-15-BTEX	Effectiveness Testing	Air Toxics, Ltd.	01/18/2005	01/20/2005	02/01/2005	03A	501300
01/18/2005	011805-123WWatkins-E30	Air	TO-15-BTEX	Effectiveness Testing	Air Toxics, Ltd.	01/18/2005	01/20/2005	02/01/2005	04A	501300
01/18/2005	011805-117EForest-B	Air	TO-15-BTEX	Effectiveness Testing	Air Toxics, Ltd.	01/18/2005	01/20/2005	02/01/2005	01A	501301
01/18/2005	011805-117EForest-B Dup	Air	TO-15-BTEX	Effectiveness Testing	Air Toxics, Ltd.	01/18/2005	01/20/2005	02/01/2005	02A	501301
01/18/2005	011805-117EForest-LR	Air	TO-15-BTEX	Effectiveness Testing	Air Toxics, Ltd.	01/18/2005	01/20/2005	02/01/2005	03A	501301
01/18/2005	011805-117EForest-E30	Air	TO-15-BTEX	Effectiveness Testing	Air Toxics, Ltd.	01/18/2005	01/20/2005	02/01/2005	04A	501301
01/19/2005	011905-318NDelmar-B	Air	TO-15 (oz presursors), TO-14, ASTM D-1946	Contingency Plan	Air Toxics, Ltd.	01/19/2005	01/20/2005	02/02/2005	01A	501282
01/19/2005	011905-318NDelmar-DR	Air	TO-15 (oz presursors), TO-14, ASTM D-1946	Contingency Plan	Air Toxics, Ltd.	01/19/2005	01/20/2005	02/02/2005	02A	501282
01/19/2005	011905-318NDelmar-E30	Air	TO-15 (oz presursors), TO-14, ASTM D-1946	Contingency Plan	Air Toxics, Ltd.	01/19/2005	01/20/2005	02/02/2005	03A	501282
01/19/2005	011905-134EWatkins-E30	Air	TO-15 (oz presursors), TO-14, ASTM D-1946	Contingency Plan	Air Toxics, Ltd.	01/19/2005	01/20/2005	02/08/2005	01A	501283
01/19/2005	011905-134EWatkins-B	Air	TO-15 (oz presursors), TO-14, ASTM D-1946	Contingency Plan	Air Toxics, Ltd.	01/19/2005	01/20/2005	02/08/2005	02A	501283
01/19/2005	011905-134EWatkins-LR	Air	TO-15 (oz presursors), TO-14, ASTM D-1946	Contingency Plan	Air Toxics, Ltd.	01/19/2005	01/20/2005	02/08/2005	03A	501283
01/19/2005	011905-110EMaple-E30	Air	TO-15- BTEX	Effectiveness Testing	Air Toxics, Ltd.	01/19/2005	01/20/2005	02/01/2005	01A	501284
01/19/2005	011905-110EMaple-B	Air	TO-15- BTEX	Effectiveness Testing	Air Toxics, Ltd.	01/19/2005	01/20/2005	02/01/2005	02A	501284
01/19/2005	011905-110EMaple-B Dup	Air	TO-15- BTEX	Effectiveness Testing	Air Toxics, Ltd.	01/19/2005	01/20/2005	02/01/2005	03A	501284
01/19/2005	011905-110EMaple-DR	Air	TO-15- BTEX	Effectiveness Testing	Air Toxics, Ltd.	01/19/2005	01/20/2005	02/01/2005	04A	501284
01/19/2005	011905-110EMaple-E24	Air	TO-15-BTEX	Effectiveness Testing	Air Toxics, Ltd.	01/19/2005	01/21/2005	02/03/2005	01A	501335
01/19/2005	011905-116EMaple-E30	Air	TO-15- BTEX	Effectiveness Testing	Air Toxics, Ltd.	01/19/2005	01/20/2005	02/01/2005	01A	501285
01/19/2005	011905-116EMaple-DR	Air	TO-15- BTEX	Effectiveness Testing	Air Toxics, Ltd.	01/19/2005	01/20/2005	02/01/2005	02A	501285
01/19/2005	011905-116EMaple-B	Air	TO-15- BTEX	Effectiveness Testing	Air Toxics, Ltd.	01/19/2005	01/20/2005	02/01/2005	03A	501285
01/19/2005	011905-125EForest-E30	Air	TO-15- BTEX	Effectiveness Testing	Air Toxics, Ltd.	01/19/2005	01/20/2005	02/01/2005	01A	501286
01/19/2005	011905-125EForest-DR	Air	TO-15- BTEX	Effectiveness Testing	Air Toxics, Ltd.	01/19/2005	01/20/2005	02/01/2005	02A	501286
01/19/2005	011905-125EForest-B	Air	TO-15- BTEX	Effectiveness Testing	Air Toxics, Ltd.	01/19/2005	01/20/2005	02/01/2005	03A	501286
01/19/2005	011905-125EForest-B Dup	Air	TO-15- BTEX	Effectiveness Testing	Air Toxics, Ltd.	01/19/2005	01/20/2005	02/01/2005	04A	501286
01/19/2005	011905-125EForest-E24	Air	TO-15-BTEX	Effectiveness Testing	Air Toxics, Ltd.	01/19/2005	01/21/2005	02/01/2005	01A	501334
01/19/2005	011905-124WForest-B	Air	TO-15- BTEX	Effectiveness Testing	Air Toxics, Ltd.	01/19/2005	01/21/2005	02/02/2005	01A	501332
01/19/2005	011905-124WForest-E30	Air	TO-15- BTEX	Effectiveness Testing	Air Toxics, Ltd.	01/19/2005	01/21/2005	02/02/2005	02A	501332
01/19/2005	011905-124WForest-DR	Air	TO-15- BTEX	Effectiveness Testing	Air Toxics, Ltd.	01/19/2005	01/21/2005	02/02/2005	03A	501332
01/19/2005	011905-VMP-73VS	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	01/27/2005	01A	501287
01/19/2005	011905-VMP-73S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	01/27/2005	02A	501287
01/19/2005	011905-VMP-73S Dup	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	01/27/2005	03A	501287
01/19/2005	011905-VMP-73M	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	01/27/2005	04A	501287
01/19/2005	011905-VMP-73D	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	01/27/2005	05A	501287
01/19/2005	011905-VMP-68VS	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	01/27/2005	06A	501287
01/19/2005	011905-VMP-68S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	01/27/2005	07A	501287
01/19/2005	011905-VMP-68M	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	01/27/2005	08A	501287
01/19/2005	011905-VMP-68D	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	01/27/2005	09A	501287
01/19/2005	011905-VMP-69VS	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	01/27/2005	10A	501287
01/19/2005	011905-VMP-69M	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	01/27/2005	11A	501287
01/19/2005	011905-VMP-69D	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	01/27/2005	12A	501287
01/19/2005	011905-MP-20	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	01/27/2005	13A	501287
01/19/2005	011905-MP-19	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	01/27/2005	14A	501287

APPENDIX E
Soil Vapor and Sub-Slab Tracking Table

Hartford, Illinois

Sample Date	Sample ID	Sample Matrix	Analysis Type	Sampling Purpose	Laboratory	Date			Laboratory Sample ID	Laboratory Report Number
						Sampled	Received By Lab	Reported By Lab		
01/19/2005	011905-MP-18	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	01/27/2005	15A	501287
01/19/2005	011905-MP-17	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	01/27/2005	16A	501287
01/19/2005	011905-VMP-32VS	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	01/27/2005	17A	501287
01/19/2005	011905-VMP-32S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	01/27/2005	18A	501287
01/19/2005	011905-VMP-32M	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	01/27/2005	19A	501287
01/19/2005	011905-VMP-32D	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	01/27/2005	20A	501287
01/19/2005	011905-MP-64A	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	02/04/2005	21A	501287
01/19/2005	011905-MP-64B	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	02/04/2005	22A	501287
01/19/2005	011905-MP-64C	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	02/04/2005	23A	501287
01/19/2005	011905-MP-61A	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	02/04/2005	24A	501287
01/19/2005	011905-MP-61B	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	02/04/2005	25A	501287
01/19/2005	011905-MP-61C	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	02/04/2005	26A	501287
01/19/2005	011905-MP-62A	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	02/04/2005	27A	501287
01/19/2005	011905-MP-62B	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	02/04/2005	28A	501287
01/19/2005	011905-MP-62C	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	02/04/2005	29A	501287
01/19/2005	011905-MP-62B Dup	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	02/04/2005	30A	501287
01/19/2005	011905-MP-59A	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	02/04/2005	31A	501287
01/19/2005	011905-MP-59B	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	02/04/2005	32A	501287
01/19/2005	011905-MP-59C	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	02/04/2005	33A	501287
01/19/2005	011905-MP-58A	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	02/04/2005	34A	501287
01/19/2005	011905-MP-58B	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	02/04/2005	35A	501287
01/19/2005	011905-MP-58C	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	02/04/2005	36A	501287
01/19/2005	011905-MP-60A	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	02/04/2005	37A	501287
01/19/2005	011905-MP-60B	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	02/04/2005	38A	501287
01/19/2005	011905-MP-60C	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	02/04/2005	39A	501287
01/19/2005	011905-142EWatkins-MH	Air	TO-15 (oz presursors), TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	02/15/2005	01A	501288
01/19/2005	011905-120EWatkins-MH	Air	TO-15 (oz presursors), TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	02/15/2005	02A	501288
01/19/2005	011905-102EWatkins-MH	Air	TO-15 (oz presursors), TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	02/15/2005	03A	501288
01/19/2005	011905-VMP-26M	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	01/25/2005	01A	501289
01/19/2005	011905-VMP-26D	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	01/27/2005	02A	501289
01/19/2005	011905-VMP-26D Dup	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	01/27/2005	03A	501289
01/19/2005	011905-VMP-56VS	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	01/27/2005	04A	501289
01/19/2005	011905-VMP-56S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	01/27/2005	05A	501289
01/19/2005	011905-VMP-58VS	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	01/25/2005	06A	501289
01/19/2005	011905-VMP-58S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	01/25/2005	07A	501289
01/19/2005	011905-VMP-64VS	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	01/25/2005	08A	501289
01/19/2005	011905-VMP-64S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	01/25/2005	09A	501289
01/19/2005	011905-VMP-65VS	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	01/25/2005	10A	501289
01/19/2005	011905-VMP-65S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	01/25/2005	11A	501289
01/19/2005	011905-VMP-65M	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	01/25/2005	12A	501289
01/19/2005	011905-VMP-80VS	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	01/25/2005	13A	501289
01/19/2005	011905-VMP-80S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	01/25/2005	14A	501289
01/19/2005	011905-VMP-80M	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/19/2005	01/20/2005	01/25/2005	15A	501289
01/20/2005	012005-123WCherry-E30	Air	TO-15- BTEX	Effectiveness Testing	Air Toxics, Ltd.	01/20/2005	01/21/2005	02/02/2005	01A	501333
01/20/2005	012005-123WCherry-B	Air	TO-15- BTEX	Effectiveness Testing	Air Toxics, Ltd.	01/20/2005	01/21/2005	02/02/2005	02A	501333
01/20/2005	012005-123WCherry-LR	Air	TO-15- BTEX	Effectiveness Testing	Air Toxics, Ltd.	01/20/2005	01/21/2005	02/02/2005	03A	501333
01/20/2005	012005-116EWatkins-E30	Air	TO-15 (oz prescursors), TO-14, ASTM D-1946	Contingency Plan	Air Toxics, Ltd.	01/20/2005	01/24/2005	02/03/2005	01A	501363
01/20/2005	012005-116EWatkins-1	Air	TO-15 (oz prescursors), TO-14, ASTM D-1946	Contingency Plan	Air Toxics, Ltd.	01/20/2005	01/24/2005	02/03/2005	02A	501363
01/20/2005	012005-116EWatkins-B	Air	TO-15 (oz prescursors), TO-14, ASTM D-1946	Contingency Plan	Air Toxics, Ltd.	01/20/2005	01/24/2005	02/03/2005	03A	501363
01/20/2005	012005-116EWatkins-E24	Air	TO-15 (oz prescursors), TO-14, ASTM D-1947	Contingency Plan	Air Toxics, Ltd.	01/20/2005	01/24/2005	01/27/2005	01A	501360
01/20/2005	012005-MP-17	Air	TO-15 (oz prescursors), TO-14, ASTM D-1946	Contingency Plan	Air Toxics, Ltd.	01/20/2005	01/24/2005	02/03/2005	01A	501362

APPENDIX E
Soil Vapor and Sub-Slab Tracking Table

Hartford, Illinois

Sample Date	Sample ID	Sample Matrix	Analysis Type	Sampling Purpose	Laboratory	Date			Laboratory Sample ID	Laboratory Report Number
						Sampled	Received By Lab	Reported By Lab		
01/20/2005	012005-MP-19	Air	TO-15 (oz prescursors), TO-14, ASTM D-1946	Contingency Plan	Air Toxics, Ltd.	01/20/2005	01/24/2005	02/03/2005	02A	501362
01/20/2005	012005-VMP-26M	Air	TO-15 (oz prescursors), TO-14, ASTM D-1946	Contingency Plan	Air Toxics, Ltd.	01/20/2005	01/24/2005	02/03/2005	03A	501362
01/20/2005	012005-MP-20	Air	TO-15 (oz prescursors), TO-14, ASTM D-1946	Contingency Plan	Air Toxics, Ltd.	01/20/2005	01/24/2005	02/03/2005	04A	501362
01/20/2005	012005-MP-18	Air	TO-15 (oz prescursors), TO-14, ASTM D-1946	Contingency Plan	Air Toxics, Ltd.	01/20/2005	01/24/2005	02/03/2005	05A	501362
01/20/2005	012005-MP-66A	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/20/2005	01/21/2005	02/09/2005	01A	501327
01/20/2005	012005-MP-66B	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/20/2005	01/21/2005	02/09/2005	02A	501327
01/20/2005	012005-MP-42A	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/20/2005	01/21/2005	02/09/2005	03A	501327
01/20/2005	012005-MP-42A Dup	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/20/2005	01/21/2005	02/09/2005	04A	501327
01/20/2005	012005-MP-42B	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/20/2005	01/21/2005	02/09/2005	05A	501327
01/20/2005	012005-MP-6S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/20/2005	01/21/2005	02/09/2005	06A	501327
01/20/2005	012005-MP-8S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/20/2005	01/21/2005	02/09/2005	07A	501327
01/20/2005	012005-MP-8D	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/20/2005	01/21/2005	02/09/2005	08A	501327
01/20/2005	012005-MP-51A	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/20/2005	01/21/2005	02/09/2005	09A	501327
01/20/2005	012005-MP-51B	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/20/2005	01/21/2005	02/09/2005	10A	501327
01/20/2005	012005-MP-51C	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/20/2005	01/21/2005	02/09/2005	11A	501327
01/20/2005	012005-VMP-52VS	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/20/2005	01/21/2005	02/09/2005	12A	501327
01/20/2005	012005-VMP-53VS	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/20/2005	01/21/2005	02/09/2005	13A	501327
01/20/2005	012005-VMP-53S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/20/2005	01/21/2005	02/09/2005	14A	501327
01/20/2005	012005-VMP-47VS	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/20/2005	01/21/2005	02/09/2005	15A	501327
01/20/2005	012005-VMP-47S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/20/2005	01/21/2005	02/09/2005	16A	501327
01/20/2005	012005-VMP-48VS	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/20/2005	01/21/2005	02/09/2005	17A	501327
01/20/2005	012005-VMP-48S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/20/2005	01/21/2005	02/09/2005	18A	501327
01/20/2005	012005-VMP-49VS	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/20/2005	01/21/2005	02/09/2005	19A	501327
01/20/2005	012005-VMP-49S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/20/2005	01/21/2005	02/09/2005	20A	501327
01/20/2005	012005-VMP-50VS	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/20/2005	01/21/2005	02/07/2005	21A	501327
01/20/2005	012005-VMP-50S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/20/2005	01/21/2005	02/07/2005	22A	501327
01/20/2005	012005-VMP-45S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/20/2005	01/21/2005	02/07/2005	23A	501327
01/20/2005	012005-VMP-46VS	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/20/2005	01/21/2005	02/07/2005	24A	501327
01/20/2005	012005-VMP-46S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/20/2005	01/21/2005	02/07/2005	25A	501327
01/20/2005	012005-VMP-51VS	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/20/2005	01/21/2005	02/07/2005	26A	501327
01/20/2005	012005-VMP-51S	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/20/2005	01/21/2005	02/07/2005	27A	501327
01/20/2005	012005-VMP-51S Dup	Air	TO-15 (ENSR short list),TO-14, ASTM D-1946	Vapor Migration	Air Toxics, Ltd.	01/20/2005	01/21/2005	02/07/2005	28A	501327
01/21/2005	012105-142EWatkins-E30	Air	TO-15, TO-14, ASTM D-1946	Contingency Plan	Air Toxics, Ltd.	01/21/2005	01/24/2005	01/27/2005	01A	501361
01/21/2005	012105-142EWatkins-1	Air	TO-15, TO-14, ASTM D-1946	Contingency Plan	Air Toxics, Ltd.	01/21/2005	01/24/2005	01/27/2005	02A	501361
01/21/2005	012105-142EWatkins-B	Air	TO-15, TO-14, ASTM D-1946	Contingency Plan	Air Toxics, Ltd.	01/21/2005	01/24/2005	01/27/2005	03A	501361
01/21/2005	012105-142EWatkins-E24	Air	TO-15, TO-14, ASTM D-1946	Contingency Plan	Air Toxics, Ltd.	01/21/2005	01/24/2005	02/01/2005	01A	501347
01/22/2005	012205-139EForest-SS1	Air	TO-15 BTEX, ASTM D-1946	Resident Sub-slab	Air Toxics, Ltd.	01/22/2005	01/25/2005	01/28/2005	01A	501378
01/22/2005	012205-139EForest-SS2	Air	TO-15 BTEX, ASTM D-1946	Resident Sub-slab	Air Toxics, Ltd.	01/22/2005	01/25/2005	01/28/2005	02A	501378
01/22/2005	012205-139EForest-SS3	Air	TO-15 BTEX, ASTM D-1946	Resident Sub-slab	Air Toxics, Ltd.	01/22/2005	01/25/2005	01/28/2005	03A	501378
01/22/2005	012205-139EForest-Int	Air	TO-15 BTEX, ASTM D-1946	Resident Sub-slab	Air Toxics, Ltd.	01/22/2005	01/25/2005	01/28/2005	04A	501378
01/24/2005	012405 HCC -CC	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	01/24/2005	01/27/2005	02/08/2005	01A	501435
01/24/2005	012405 HCC- C	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	01/24/2005	01/27/2005	02/08/2005	02A	501435
01/24/2005	012405 HCC - K	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	01/24/2005	01/27/2005	02/08/2005	03A	501435
01/24/2005	012405-HCC-KC	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	01/24/2005	01/27/2005	02/08/2005	04A	501435
01/24/2005	012405 HCC- MRDUP	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	01/24/2005	01/27/2005	02/08/2005	05A	501435
01/24/2005	012405 HCC - MR	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	01/24/2005	01/27/2005	02/08/2005	06A	501435
01/24/2005	012405 HCC- EH	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	01/24/2005	01/27/2005	02/08/2005	07A	501435
01/24/2005	012405 HCC - BR	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	01/24/2005	01/27/2005	02/08/2005	08A	501435
01/24/2005	012405 HCC - UWS	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	01/24/2005	01/27/2005	02/08/2005	09A	501435
01/24/2005	012405 HCC - E	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	01/24/2005	01/27/2005	02/08/2005	10A	501435
01/24/2005	012405110EMaple SS1	Air	TO-15, ASTM D-1946, BTEX	Resident Sub-slab	Air Toxics, Ltd.	01/24/2005	01/27/2005	02/09/2005	11A	501435

APPENDIX E
Soil Vapor and Sub-Slab Tracking Table

Hartford, Illinois

Sample Date	Sample ID	Sample Matrix	Analysis Type	Sampling Purpose	Laboratory	Date			Laboratory Sample ID	Laboratory Report Number
						Sampled	Received By Lab	Reported By Lab		
01/24/2005	012405110EMaple SS2	Air	TO-15, ASTM D-1946, BTEX	Resident Sub-slab	Air Toxics, Ltd.	01/24/2005	01/27/2005	02/09/2005	12A	501435
01/24/2005	012405110EMaple SS3	Air	TO-15, ASTM D-1946, BTEX	Resident Sub-slab	Air Toxics, Ltd.	01/24/2005	01/27/2005	02/09/2005	13A	501435
01/24/2005	012405110EMaple DR	Air	TO-15, ASTM D-1946, BTEX	Resident Sub-slab	Air Toxics, Ltd.	01/24/2005	01/27/2005	02/09/2005	14A	501435
01/25/2005	012505 HCC-CC5	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Sub-Slab	Air Toxics, Ltd.	01/25/2005	01/27/2005	02/08/2005	15A	501435
01/25/2005	012505 HCC- CC8	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Sub-Slab	Air Toxics, Ltd.	01/25/2005	01/27/2005	02/08/2005	16A	501435
01/25/2005	012505 HCC - CC7D	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Sub-Slab	Air Toxics, Ltd.	01/25/2005	01/27/2005	02/08/2005	17A	501435
01/25/2005	012505 HCC - CC7	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Sub-Slab	Air Toxics, Ltd.	01/25/2005	01/27/2005	02/08/2005	18A	501435
01/25/2005	012505 HCC- CC9	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Sub-Slab	Air Toxics, Ltd.	01/25/2005	01/27/2005	02/08/2005	19A	501435
01/25/2005	012505 HCC - CC2	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Sub-Slab	Air Toxics, Ltd.	01/25/2005	01/27/2005	02/08/2005	20A	501435
01/25/2005	012505 HCC - CC2 Dup	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Sub-Slab	Air Toxics, Ltd.	01/25/2005	01/27/2005	02/16/2005	21A	501435
01/25/2005	012505 HCC - CC3	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Sub-Slab	Air Toxics, Ltd.	01/25/2005	01/27/2005	02/16/2005	22A	501435
01/25/2005	012505 HCC - CC6	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Sub-Slab	Air Toxics, Ltd.	01/25/2005	01/27/2005	02/16/2005	23A	501435
01/25/2005	012505 HCC - CC1	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Sub-Slab	Air Toxics, Ltd.	01/25/2005	01/27/2005	02/16/2005	24A	501435
01/25/2005	012505 HCC - CC11	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Sub-Slab	Air Toxics, Ltd.	01/25/2005	01/27/2005	02/16/2005	25A	501435
01/25/2005	012505 HCC - CC4	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Sub-Slab	Air Toxics, Ltd.	01/25/2005	01/27/2005	02/16/2005	26A	501435
01/25/2005	012505 HCC - CC10	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Sub-Slab	Air Toxics, Ltd.	01/25/2005	01/27/2005	02/16/2005	27A	501435
01/25/2005	012505 HCC - CC12	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Sub-Slab	Air Toxics, Ltd.	01/25/2005	01/27/2005	02/16/2005	28A	501435
01/25/2005	012505 HCC - EXT 30	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Sub-Slab	Air Toxics, Ltd.	01/25/2005	01/27/2005	02/16/2005	29A	501435
01/26/2005	012605-112EElmB	Air	TO-15, ENSR short list	Effectiveness Testing	Air Toxics, Ltd.	01/26/2005	01/28/2005	02/02/2005	01A	501454
01/26/2005	012605-112EElm1	Air	TO-15, ENSR short list	Effectiveness Testing	Air Toxics, Ltd.	01/26/2005	01/28/2005	02/02/2005	02A	501454
01/26/2005	012605-112EElmE30	Air	TO-15, ENSR short list	Effectiveness Testing	Air Toxics, Ltd.	01/26/2005	01/28/2005	02/02/2005	03A	501454
01/26/2005	012605-112EElmE24	Air	TO-15, ENSR short list	Effectiveness Testing	Air Toxics, Ltd.	01/26/2005	01/28/2005	02/02/2005	04A	501454
01/26/2005	012605-MP9D	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/26/2005	01/28/2005	02/04/2005	01A	501461
01/26/2005	012605-MP-7S	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/26/2005	01/28/2005	02/04/2005	02A	501461
01/26/2005	012605-MP7D	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/26/2005	01/28/2005	02/04/2005	03A	501461
01/26/2005	012605-MP5S	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/26/2005	01/28/2005	02/04/2005	04A	501461
01/26/2005	012605-MP5D	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/26/2005	01/28/2005	02/04/2005	05A	501461
01/26/2005	012605-MP-29A	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/26/2005	01/28/2005	02/04/2005	06A	501461
01/26/2005	012605-MP-29D	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/26/2005	01/28/2005	02/04/2005	07A	501461
01/26/2005	012605-MP-25	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/26/2005	01/28/2005	02/04/2005	08A	501461
01/26/2005	012605-MP-26	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/26/2005	01/28/2005	02/04/2005	09A	501461
01/26/2005	012605-MP-27	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/26/2005	01/28/2005	02/04/2005	10A	501461
01/26/2005	012605-MP-28	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/26/2005	01/28/2005	02/04/2005	11A	501461
01/26/2005	012605-MP13S	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/26/2005	01/28/2005	02/04/2005	12A	501461
01/26/2005	012605-MP13D	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/26/2005	01/28/2005	02/04/2005	13A	501461
01/26/2005	012605-MP14S	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/26/2005	01/28/2005	02/04/2005	14A	501461
01/26/2005	012605-MP14D	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/26/2005	01/28/2005	02/04/2005	15A	501461
01/26/2005	012605-MP10S	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/26/2005	01/28/2005	02/04/2005	16A	501461
01/26/2005	012605-MP34A	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/26/2005	01/28/2005	02/04/2005	17A	501461
01/26/2005	012605-MP34B	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/26/2005	01/28/2005	02/04/2005	18A	501461
01/26/2005	012605-MP34C	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/26/2005	01/28/2005	02/04/2005	19A	501461
01/26/2005	012605-MP34C-D	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/26/2005	01/28/2005	02/04/2005	20A	501461
01/26/2005	012605-MP33D	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/26/2005	01/28/2005	02/10/2005	21A	501461
01/26/2005	012605-MP35A	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/26/2005	01/28/2005	02/10/2005	22A	501461
01/26/2005	012605-MP35B	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/26/2005	01/28/2005	02/10/2005	23A	501461
01/26/2005	012605-MP35C	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/26/2005	01/28/2005	02/10/2005	24A	501461
01/26/2005	012605-MP35D	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/26/2005	01/28/2005	02/10/2005	25A	501461
01/26/2005	012605-MP36A	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/26/2005	01/28/2005	02/10/2005	26A	501461
01/26/2005	012605-MP36B	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/26/2005	01/28/2005	02/10/2005	27A	501461
01/26/2005	012605-MP36C	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/26/2005	01/28/2005	02/10/2005	28A	501461
01/27/2005	012705142EWatkinsE30	Air	TO-15 short list	Contingency Plan	Air Toxics, Ltd.	01/27/2005	01/24/2005	02/11/2005	01A	501455

APPENDIX E
Soil Vapor and Sub-Slab Tracking Table

Hartford, Illinois

Sample Date	Sample ID	Sample Matrix	Analysis Type	Sampling Purpose	Laboratory	Date			Laboratory Sample ID	Laboratory Report Number
						Sampled	Received By Lab	Reported By Lab		
01/27/2005	012705142EWatkinsB	Air	TO-15 short list	Contingency Plan	Air Toxics, Ltd.	01/27/2005	01/24/2005	02/11/2005	02A	501455
01/27/2005	012705142EWatkins1	Air	TO-15 short list	Contingency Plan	Air Toxics, Ltd.	01/27/2005	01/24/2005	02/11/2005	03A	501455
01/27/2005	012705142EWatkinsE24	Air	TO-15 (oz Precursor),TO-14, ASTM D-1946	Contingency Plan	Air Toxics, Ltd.	01/27/2005	01/24/2005	01/27/2005	01A	501482
01/27/2005	012705-MP-24	Air	TO-15(oz Precursor),TO-14, ASTM D1946	Vapor Migration	Air Toxics, Ltd.	01/27/2005	01/28/2005	02/17/2005	04A	501455
01/27/2005	012705-MP21	Air	TO-15(oz Precursor),TO-14, ASTM D1946	Vapor Migration	Air Toxics, Ltd.	01/27/2005	01/28/2005	02/17/2005	05A	501455
01/27/2005	012705-MP19	Air	TO-15(oz Precursor),TO-14, ASTM D1946	Vapor Migration	Air Toxics, Ltd.	01/27/2005	01/28/2005	02/17/2005	06A	501455
01/27/2005	012705-MP18	Air	TO-15(oz Precursor),TO-14, ASTM D1946	Vapor Migration	Air Toxics, Ltd.	01/27/2005	01/28/2005	02/17/2005	07A	501455
01/27/2005	012705-MP-56C	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/27/2005	01/31/2005	02/10/2005	20A	501481
01/27/2005	012705-MP-57C	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/27/2005	01/31/2005	02/09/2005	21A	501481
01/27/2005	012705-MP-46A	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/27/2005	01/31/2005	02/09/2005	22A	501481
01/27/2005	012705-MP-46B	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/27/2005	01/31/2005	02/09/2005	23A	501481
01/27/2005	012705-MP-46C	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/27/2005	01/31/2005	02/09/2005	24A	501481
01/27/2005	012705-MP-47A	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/27/2005	01/31/2005	02/09/2005	25A	501481
01/27/2005	012705-MP-45A	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/27/2005	01/31/2005	02/10/2005	10A	501481
01/27/2005	012705-MP-45B	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/27/2005	01/31/2005	02/10/2005	11A	501481
01/27/2005	012705-MP-45C	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/27/2005	01/31/2005	02/10/2005	12A	501481
01/27/2005	012705-MP-50A	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/27/2005	01/31/2005	02/10/2005	13A	501481
01/27/2005	012705-MP-50B	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/27/2005	01/31/2005	02/10/2005	14A	501481
01/27/2005	012705-MP-50C	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/27/2005	01/31/2005	02/10/2005	15A	501481
01/27/2005	012705-MP-52C	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/27/2005	01/31/2005	02/10/2005	16A	501481
01/27/2005	012705-MP-53C	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/27/2005	01/31/2005	02/10/2005	17A	501481
01/27/2005	012705-MP-54C	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/27/2005	01/31/2005	02/10/2005	18A	501481
01/27/2005	012705-MP-55C	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/27/2005	01/31/2005	02/10/2005	19A	501481
01/27/2005	012705-MP-47B	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/27/2005	01/31/2005	02/10/2005	01A	501481
01/27/2005	012705-MP-47C	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/27/2005	01/31/2005	02/10/2005	02A	501481
01/27/2005	012705-MP-51D	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/27/2005	01/31/2005	02/10/2005	03A	501481
01/27/2005	012705-MP-51DDup	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/27/2005	01/31/2005	02/10/2005	04A	501481
01/27/2005	012705-MP-42C	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/27/2005	01/31/2005	02/10/2005	05A	501481
01/27/2005	012705-MP-44A	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/27/2005	01/31/2005	02/10/2005	06A	501481
01/27/2005	012705-MP-44B	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/27/2005	01/31/2005	02/10/2005	07A	501481
01/27/2005	012705-MP-44C	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/27/2005	01/31/2005	02/10/2005	08A	501481
01/27/2005	012705-MP-44D	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/27/2005	01/31/2005	02/10/2005	09A	501481
01/28/2005	012805-MP-49A	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/28/2005	01/31/2005	02/09/2005	26A	501481
01/28/2005	012805-MP49B	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/28/2005	01/31/2005	02/09/2005	27A	501481
01/28/2005	012805-MP49C	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/28/2005	01/31/2005	02/09/2005	28A	501481
01/28/2005	012805-MP48A	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/28/2005	01/31/2005	02/09/2005	29A	501481
01/28/2005	012805-MP48B	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/28/2005	01/31/2005	02/09/2005	30A	501481
01/28/2005	012805-MP48C	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/28/2005	01/31/2005	02/09/2005	31A	501481
01/28/2005	012805-MP36A	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/28/2005	01/31/2005	02/09/2005	32A	501481
01/28/2005	012805-MP36B	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/28/2005	01/31/2005	02/09/2005	33A	501481
01/28/2005	012805-MP36C	Air	TO-15, ENSR short list,TO14,ASTM-D1946	Vapor Migration	Air Toxics, Ltd.	01/28/2005	01/31/2005	02/09/2005	34A	501481
01/30/2005	013005142EWatkins-B	Air	Toluene,Ethylbenzene, Xylenes,Stryrene,N-Propylbenzene, Trimethy	Resident Sub-slab	Air Toxics, Ltd.	01/30/2005	02/01/2005	02/03/2005	01A	502027
01/30/2005	013005142EWatkins-SS1	Air	Toluene,Ethylbenzene, Xylenes,Stryrene,N-Propylbenzene, Trimethy	Resident Sub-slab	Air Toxics, Ltd.	01/30/2005	02/01/2005	02/03/2005	02A	502027
01/30/2005	013005142EWatkins-SS2	Air	Toluene,Ethylbenzene, Xylenes,Stryrene,N-Propylbenzene, Trimethy	Resident Sub-slab	Air Toxics, Ltd.	01/30/2005	02/01/2005	02/03/2005	03A	502027
01/30/2005	013005142EWatkins-SS3	Air	Toluene,Ethylbenzene, Xylenes,Stryrene,N-Propylbenzene, Trimethy	Resident Sub-slab	Air Toxics, Ltd.	01/30/2005	02/01/2005	02/03/2005	04A	502027
01/30/2005	013005142EWatkins-E	Air	TO15,TO14, ASTM D-1946, Methane, Oxygen, CO2	Resident Sub-slab	Air Toxics, Ltd.	01/30/2005	02/01/2005	02/11/2005	05A	502027
01/31/2005	013105HCC-E24	Air	TO15,TO14, ASTM D-1946, Methane, Oxygen, CO2	Community Center Weekly Sampling	Air Toxics, Ltd.	01/31/2005	02/02/2005	02/22/2005	08A	502057
01/31/2005	013105HCC-CC	Air	TO15,TO14, ASTM D-1946, Methane, Oxygen, CO2	Community Center Weekly Sampling	Air Toxics, Ltd.	01/31/2005	02/02/2005	02/22/2005	09A	502057
01/31/2005	013105HCC-C	Air	TO15,TO14, ASTM D-1946, Methane, Oxygen, CO2	Community Center Weekly Sampling	Air Toxics, Ltd.	01/31/2005	02/02/2005	02/22/2005	10A	502057
01/31/2005	013105HCC-K	Air	TO15,TO14, ASTM D-1946, Methane, Oxygen, CO2	Community Center Weekly Sampling	Air Toxics, Ltd.	01/31/2005	02/02/2005	02/22/2005	11A	502057
01/31/2005	013105HCC-KDup	Air	TO15,TO14, ASTM D-1946, Methane, Oxygen, CO2	Community Center Weekly Sampling	Air Toxics, Ltd.	01/31/2005	02/02/2005	02/22/2005	12A	502057

APPENDIX E
Soil Vapor and Sub-Slab Tracking Table

Hartford, Illinois

Sample Date	Sample ID	Sample Matrix	Analysis Type	Sampling Purpose	Laboratory	Date			Laboratory Sample ID	Laboratory Report Number
						Sampled	Received By Lab	Reported By Lab		
01/31/2005	013105HCC-KC	Air	TO15,TO14, ASTM D-1946, Methane, Oxygen, CO2	Community Center Weekly Sampling	Air Toxics, Ltd.	01/31/2005	02/02/2005	02/22/2005	13A	502057
01/31/2005	013105HCC-MR	Air	TO15,TO14, ASTM D-1946, Methane, Oxygen, CO2	Community Center Weekly Sampling	Air Toxics, Ltd.	01/31/2005	02/02/2005	02/22/2005	14A	502057
01/31/2005	013105HCC-EH	Air	TO15,TO14, ASTM D-1946, Methane, Oxygen, CO2	Community Center Weekly Sampling	Air Toxics, Ltd.	01/31/2005	02/02/2005	02/22/2005	15A	502057
01/31/2005	013105HCC-BR	Air	TO15,TO14, ASTM D-1946, Methane, Oxygen, CO2	Community Center Weekly Sampling	Air Toxics, Ltd.	01/31/2005	02/02/2005	02/22/2005	16A	502057
01/31/2005	013105HCC-UWS	Air	TO15,TO14, ASTM D-1946, Methane, Oxygen, CO2	Community Center Weekly Sampling	Air Toxics, Ltd.	01/31/2005	02/02/2005	02/22/2005	17A	502057
01/31/2005	013105HCC-E30	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Sub-Slab	Air Toxics, Ltd.	01/31/2005	02/01/2005	02/11/2005	01A	502028
01/31/2005	013105HCCVMP-CC1	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Sub-Slab	Air Toxics, Ltd.	01/31/2005	02/01/2005	02/11/2005	02A	502028
01/31/2005	013105HCCVMP-CC11	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Sub-Slab	Air Toxics, Ltd.	01/31/2005	02/01/2005	02/11/2005	03A	502028
01/31/2005	013105HCCVMP-CC4	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Sub-Slab	Air Toxics, Ltd.	01/31/2005	02/01/2005	02/11/2005	04A	502028
01/31/2005	013105HCCVMP-CC10	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Sub-Slab	Air Toxics, Ltd.	01/31/2005	02/01/2005	02/11/2005	05A	502028
01/31/2005	013105HCCVMP-CC8	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Sub-Slab	Air Toxics, Ltd.	01/31/2005	02/01/2005	02/11/2005	06A	502028
01/31/2005	013105HCCVMP-CC5	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Sub-Slab	Air Toxics, Ltd.	01/31/2005	02/01/2005	02/11/2005	07A	502028
01/31/2005	013105HCCVMP-CC9	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Sub-Slab	Air Toxics, Ltd.	01/31/2005	02/01/2005	02/11/2005	08A	502028
01/31/2005	013105HCCVMP-CC7	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Sub-Slab	Air Toxics, Ltd.	01/31/2005	02/01/2005	02/11/2005	09A	502028
01/31/2005	013105HCCVMP-CC7D	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Sub-Slab	Air Toxics, Ltd.	01/31/2005	02/01/2005	02/11/2005	10A	502028
01/31/2005	013105HCCVMP-CC6	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Sub-Slab	Air Toxics, Ltd.	01/31/2005	02/01/2005	02/11/2005	11A	502028
01/31/2005	013105HCCVMP-CC2	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Sub-Slab	Air Toxics, Ltd.	01/31/2005	02/01/2005	02/11/2005	12A	502028
01/31/2005	013105HCCVMP-CC3	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Sub-Slab	Air Toxics, Ltd.	01/31/2005	02/01/2005	02/11/2005	13A	502028
01/31/2005	013105HCCVMP-CC12Dup	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Sub-Slab	Air Toxics, Ltd.	01/31/2005	02/01/2005	02/11/2005	14A	502028
01/31/2005	013105HCCVMP-CC12	Air	TO-15, ASTM D-1946, A.T.@Meth 82	Sub-Slab	Air Toxics, Ltd.	01/31/2005	02/01/2005	02/11/2005	15A	502028
01/31/2005	013105-VMP96-Boring	Air	TO15,Ensr shortlist,T014,ASTM-D-1946	Soil Boring	Air Toxics, Ltd.	01/31/2005	02/01/2005	02/10/2005	01A	502029
01/31/2005	013105100NOLDSTLouis-1	Air	Toluene,Ethylbenzene, Xylenes,Stryrene,N-Propylbenzene, Trimethy	Resident Sub-slab	Air Toxics, Ltd.	01/31/2005	02/02/2005	02/15/2005	01A	502056
01/31/2005	013105100NOLDSTLouisSS-1	Air	Toluene,Ethylbenzene, Xylenes,Stryrene,N-Propylbenzene, Trimethy	Resident Sub-slab	Air Toxics, Ltd.	01/31/2005	02/02/2005	02/15/2005	02A	502056
01/31/2005	013105100NOLDSTLouisSS-2	Air	Toluene,Ethylbenzene, Xylenes,Stryrene,N-Propylbenzene, Trimethy	Resident Sub-slab	Air Toxics, Ltd.	01/31/2005	02/02/2005	02/15/2005	03A	502056
01/31/2005	013105100NOLDSTLouisSS-3	Air	Toluene,Ethylbenzene, Xylenes,Stryrene,N-Propylbenzene, Trimethy	Resident Sub-slab	Air Toxics, Ltd.	01/31/2005	02/02/2005	02/15/2005	04A	502056
01/31/2005	013105215NDelmarB	Air	Toluene,Ethylbenzene, Xylenes,Stryrene,N-Propylbenzene, Trimethy	Resident Sub-slab	Air Toxics, Ltd.	01/31/2005	02/02/2005	02/07/2005	01A	502054
01/31/2005	013105215NDelmarSS1	Air	Toluene,Ethylbenzene, Xylenes,Stryrene,N-Propylbenzene, Trimethy	Resident Sub-slab	Air Toxics, Ltd.	01/31/2005	02/02/2005	02/07/2005	02A	502054
01/31/2005	013105215NDelmarSS2	Air	Toluene,Ethylbenzene, Xylenes,Stryrene,N-Propylbenzene, Trimethy	Resident Sub-slab	Air Toxics, Ltd.	01/31/2005	02/02/2005	02/07/2005	03A	502054
01/31/2005	013105215NDelmarSS3	Air	Toluene,Ethylbenzene, Xylenes,Stryrene,N-Propylbenzene, Trimethy	Resident Sub-slab	Air Toxics, Ltd.	01/31/2005	02/02/2005	02/07/2005	04A	502054
01/31/2005	013105215NDelmarE	Air	TO15,TO14, ASTM D-1946, Methane, Oxygen, CO2	Resident Sub-slab	Air Toxics, Ltd.	01/31/2005	02/02/2005	2/9/2005-2/15/05	05A	502054
02/01/2005	020105HCCPSVMP53s	Air	TO15,TO14,ASTM D-1946, Methane,CO2,Oxygen, TPH as Gasoline	HCC Pilot-Test (Week 1)	Air Toxics, Ltd.	02/01/2005	02/02/2005	03/08/2005	18A	502057
02/01/2005	020105HCCPSVMP49s	Air	TO15,TO14,ASTM D-1946, Methane,CO2,Oxygen, TPH as Gasoline	HCC Pilot-Test (Week 1)	Air Toxics, Ltd.	02/01/2005	02/02/2005	02/24/2005	19A	502057
02/01/2005	020105HCCPSVMP45s	Air	TO15,TO14,ASTM D-1946, Methane,CO2,Oxygen, TPH as Gasoline	HCC Pilot-Test (Week 1)	Air Toxics, Ltd.	02/01/2005	02/02/2005	02/24/2005	20A	502057
02/01/2005	020105HCCPSHMW46A-IF46	Air	TO15,TO14,ASTM D-1946, Methane,CO2,Oxygen, TPH as Gasoline	HCC Pilot-Test (Week 1)	Air Toxics, Ltd.	02/01/2005	02/02/2005	02/24/2005	21A	502057
02/01/2005	020105HCCPSHMW46A-EF46	Air	TO15,TO14,ASTM D-1946, Methane,CO2,Oxygen, TPH as Gasoline	HCC Pilot-Test (Week 1)	Air Toxics, Ltd.	02/01/2005	02/02/2005	02/24/2005	22A	502057
02/01/2005	020105HCCPSHMW46A-IF73	Air	TO15,TO14,ASTM D-1946, Methane,CO2,Oxygen, TPH as Gasoline	HCC Pilot-Test (Week 1)	Air Toxics, Ltd.	02/01/2005	02/02/2005	02/24/2005	23A	502057
02/01/2005	020105HCCPSHMW46A-EF73	Air	TO15,TO14,ASTM D-1946, Methane,CO2,Oxygen, TPH as Gasoline	HCC Pilot-Test (Week 1)	Air Toxics, Ltd.	02/01/2005	02/02/2005	02/24/2005	24A	502057
02/01/2005	020105HCCPSExt	Air	TO15,TO14, ASTM D-1946, Methane, Oxygen, CO2	HCC Pilot-Test (Week 1)	Air Toxics, Ltd.	02/01/2005	02/02/2005	02/22/2005	01A	502057
02/01/2005	020105HCCPSER	Air	TO15,TO14, ASTM D-1946, Methane, Oxygen, CO2	HCC Pilot-Test (Week 1)	Air Toxics, Ltd.	02/01/2005	02/02/2005	02/22/2005	02A	502057
02/01/2005	0201054HCCPSCaf	Air	TO15,TO14, ASTM D-1946, Methane, Oxygen, CO2	HCC Pilot-Test (Week 1)	Air Toxics, Ltd.	02/01/2005	02/02/2005	02/22/2005	03A	502057
02/01/2005	020105HCCVMPCC9	Air	TO15,TO14, ASTM D-1946, Methane, Oxygen, CO2	HCC Pilot-Test (Week 1)	Air Toxics, Ltd.	02/01/2005	02/02/2005	02/22/2005	04A	502057
02/01/2005	020105HCCVMPCC4	Air	TO15,TO14, ASTM D-1946, Methane, Oxygen, CO2	HCC Pilot-Test (Week 1)	Air Toxics, Ltd.	02/01/2005	02/02/2005	02/22/2005	05A	502057
02/01/2005	020105HCCVMPCC11	Air	TO15,TO14, ASTM D-1946, Methane, Oxygen, CO2	HCC Pilot-Test (Week 1)	Air Toxics, Ltd.	02/01/2005	02/02/2005	03/08/2005	06A	502057
02/01/2005	020105HCCVMPCC1	Air	TO15,TO14, ASTM D-1946, Methane, Oxygen, CO2	HCC Pilot-Test (Week 1)	Air Toxics, Ltd.	02/01/2005	02/02/2005	03/08/2005	07A	502057
02/03/2005	020305HCCPSCC4	Air	TO15,TO14, ASTM D-1946, Methane, Oxygen, CO2	HCC Pilot-Test (Week 1)	Air Toxics, Ltd.	02/03/2005	02/04/2005	03/01/2005	01A	502106
02/03/2005	020305HCCPSCC1	Air	TO15,TO14, ASTM D-1946, Methane, Oxygen, CO2	HCC Pilot-Test (Week 1)	Air Toxics, Ltd.	02/03/2005	02/04/2005	03/01/2005	02A	502106
02/03/2005	020305HCCPSCC9	Air	TO15,TO14, ASTM D-1946, Methane, Oxygen, CO2	HCC Pilot-Test (Week 1)	Air Toxics, Ltd.	02/03/2005	02/04/2005	03/01/2005	03A	502106
02/03/2005	020305HCCPSEXT	Air	TO15,TO14, ASTM D-1946, Methane, Oxygen, CO2	HCC Pilot-Test (Week 1)	Air Toxics, Ltd.	02/03/2005	02/04/2005	03/01/2005	04A	502106
02/03/2005	020305HCCPSER	Air	TO15,TO14, ASTM D-1946, Methane, Oxygen, CO2	HCC Pilot-Test (Week 1)	Air Toxics, Ltd.	02/03/2005	02/04/2005	03/01/2005	05A	502106
02/03/2005	020305HCCPSCAFE	Air	TO15,TO14, ASTM D-1946, Methane, Oxygen, CO2	HCC Pilot-Test (Week 1)	Air Toxics, Ltd.	02/03/2005	02/04/2005	03/01/2005	06A	502106

APPENDIX E
Soil Vapor and Sub-Slab Tracking Table

Hartford, Illinois

Sample Date	Sample ID	Sample Matrix	Analysis Type	Sampling Purpose	Laboratory	Date			Laboratory Sample ID	Laboratory Report Number
						Sampled	Received By Lab	Reported By Lab		
02/03/2005	020305HCCPSVMP45s	Air	TO14,TO15,ASTM D-1946,Oxygen,CO2, TPH as Gasoline	HCC Pilot-Test (Week 1)	Air Toxics, Ltd.	02/03/2005	02/04/2005	03/01/2005	07A	502106
02/03/2005	020305HCCPSVMP49s	Air	TO14,TO15,ASTM D-1946,Oxygen,CO2, TPH as Gasoline	HCC Pilot-Test (Week 1)	Air Toxics, Ltd.	02/03/2005	02/04/2005	03/01/2005	08A	502106
02/03/2005	020305HCCPSVMP53s	Air	TO14,TO15,ASTM D-1946,Oxygen,CO2, TPH as Gasoline	HCC Pilot-Test (Week 1)	Air Toxics, Ltd.	02/03/2005	02/04/2005	03/01/2005	09A	502106
02/03/2005	020305HCCPSHMW46A-EF43	Air	TO14,TO15,ASTM D-1946,Oxygen,CO2, TPH as Gasoline	HCC Pilot-Test (Week 1)	Air Toxics, Ltd.	02/03/2005	02/04/2005	03/01/2005	10A	502106
02/03/2005	020305HCCPSHMW46A-IF43	Air	TO14,TO15,ASTM D-1946,Oxygen,CO2, TPH as Gasoline	HCC Pilot-Test (Week 1)	Air Toxics, Ltd.	02/03/2005	02/04/2005	03/01/2005	11A	502106
02/05/2005	020505HCCPSCC8	Air	T015,T014,ASTM D-1946,Methane, Carbon Dioxide, Oxygen	HCC Pilot-Test (Week 1)	Air Toxics, Ltd.	02/05/2005	02/08/2005	03/03/2005	01A	502139
02/05/2005	020505HCCPSCafe	Air	T015,T014,ASTM D-1946,Methane, Carbon Dioxide, Oxygen	HCC Pilot-Test (Week 1)	Air Toxics, Ltd.	02/05/2005	02/08/2005	03/03/2005	02A	502139
02/05/2005	020505HCCPSCC3	Air	T015,T014,ASTM D-1946,Methane, Carbon Dioxide, Oxygen	HCC Pilot-Test (Week 1)	Air Toxics, Ltd.	02/05/2005	02/08/2005	03/03/2005	03A	502139
02/05/2005	020505HCCPSCC9	Air	T015,T014,ASTM D-1946,Methane, Carbon Dioxide, Oxygen	HCC Pilot-Test (Week 1)	Air Toxics, Ltd.	02/05/2005	02/08/2005	03/03/2005	04A	502139
02/07/2005	020705123EWatkinsExt	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	Resident Sub-slab	Air Toxics, Ltd.	02/07/2005	02/09/2005	03/03/2005	01A	502199
02/07/2005	020705123EWatkins1	Air	Ensrsub-slab list, methane	Resident Sub-slab	Air Toxics, Ltd.	02/07/2005	02/09/2005	02/15/2005	02A	502199
02/07/2005	020705123EWatkinsSS1	Air	Ensrsub-slab list, methane	Resident Sub-slab	Air Toxics, Ltd.	02/07/2005	02/09/2005	02/15/2005	03A	502199
02/07/2005	020705123EWatkinsSS2	Air	Ensrsub-slab list, methane	Resident Sub-slab	Air Toxics, Ltd.	02/07/2005	02/09/2005	02/15/2005	04A	502199
02/07/2005	020705123EWatkinsSS3	Air	Ensrsub-slab list, methane	Resident Sub-slab	Air Toxics, Ltd.	02/07/2005	02/09/2005	02/15/2005	05A	502199
02/07/2005	020705123EWatkinsB	Air	Ensrsub-slab list, methane	Resident Sub-slab	Air Toxics, Ltd.	02/07/2005	02/09/2005	02/15/2005	06A	502199
02/07/2005	020705140WMapleSS1	Air	Ensrsub-slab list, methane	Resident Sub-slab	Air Toxics, Ltd.	02/07/2005	02/09/2005	02/15/2005	07A	502199
02/07/2005	020705140WMapleSS2	Air	Ensrsub-slab list, methane	Resident Sub-slab	Air Toxics, Ltd.	02/07/2005	02/09/2005	02/15/2005	08A	502199
02/07/2005	020705140WMapleSS3	Air	Ensrsub-slab list, methane	Resident Sub-slab	Air Toxics, Ltd.	02/07/2005	02/09/2005	02/15/2005	12A	502199
02/07/2005	020705140WMapleB	Air	Ensrsub-slab list, methane	Resident Sub-slab	Air Toxics, Ltd.	02/07/2005	02/09/2005	02/15/2005	09A	502199
02/07/2005	020705140WMapleBDup	Air	Ensrsub-slab list, methane	Resident Sub-slab	Air Toxics, Ltd.	02/07/2005	02/09/2005	02/15/2005	10A	502199
02/07/2005	020705140WMaple1	Air	Ensrsub-slab list, methane	Resident Sub-slab	Air Toxics, Ltd.	02/07/2005	02/09/2005	02/15/2005	11A	502199
02/07/2005	020705116EWatkinsSS1	Air	Ensrsub-slab list, methane	Resident Sub-slab	Air Toxics, Ltd.	02/07/2005	02/09/2004	02/15/2005	13A	502199
02/07/2005	020705116EWatkinsSS2	Air	Ensrsub-slab list, methane	Resident Sub-slab	Air Toxics, Ltd.	02/07/2005	02/09/2005	02/15/2005	14A	502199
02/07/2005	020705116EWatkinsSS3	Air	Ensrsub-slab list, methane	Resident Sub-slab	Air Toxics, Ltd.	02/07/2005	02/09/2005	02/15/2005	15A	502199
02/07/2005	020705116EWatkinsB	Air	Ensrsub-slab list, methane	Resident Sub-slab	Air Toxics, Ltd.	02/07/2005	02/09/2005	02/15/2005	16A	502199
02/07/2005	020705116EWatkins1	Air	Ensrsub-slab list, methane	Resident Sub-slab	Air Toxics, Ltd.	02/07/2005	02/09/2005	02/15/2005	17A	502199
02/07/2005	020705HCCPS-CafeStorage	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/07/2005	02/09/2005	03/02/2005	01A	502206
02/07/2005	020705HCCPS-Café	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/07/2005	02/09/2005	03/02/2005	02A	502206
02/07/2005	020705HCCPSKitchen	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/07/2005	02/09/2005	03/02/2005	03A	502206
02/07/2005	020705HCCPSKitchen Closet	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/07/2005	02/09/2005	03/02/2005	04A	502206
02/07/2005	020705HCCPSMen's Room	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/07/2005	02/09/2005	03/02/2005	05A	502206
02/07/2005	020705HCCPSEH	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/07/2005	02/09/2005	03/02/2005	06A	502206
02/07/2005	020705HCCPSBR	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/07/2005	02/09/2005	03/02/2005	07A	502206
02/07/2005	020705HCCPSUWS	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/07/2005	02/09/2005	03/02/2005	08A	502206
02/07/2005	020705HCCPSE	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/07/2005	02/09/2005	03/02/2005	09A	502206
02/07/2005	020705HCCPSCC6	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/07/2005	02/09/2005	03/02/2005	10A	502206
02/07/2005	020705HCCPSCC2	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/07/2005	02/09/2005	03/02/2005	11A	502206
02/07/2005	020705HCCPSCC3	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/07/2005	02/09/2005	03/02/2005	12A	502206
02/07/2005	020705HCCPSCC12	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/07/2005	02/09/2005	03/02/2005	13A	502206
02/07/2005	020705HCCPSCC11	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/07/2005	02/09/2005	03/02/2005	14A	502206
02/07/2005	020705HCCPSCC1	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/07/2005	02/09/2005	03/02/2005	15A	502206
02/07/2005	020705HCCPSCC4	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/07/2005	02/09/2005	03/02/2005	16A	502206
02/07/2005	020705HCCPSCC10	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/07/2005	02/09/2005	03/02/2005	17A	502206
02/07/2005	020705HCCPS7D	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/07/2005	02/09/2005	03/02/2005	18A	502206
02/07/2005	020705HCCPSCC7	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/07/2005	02/09/2005	03/02/2005	19A	502206
02/07/2005	020705HCCPSCC8	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/07/2005	02/09/2005	03/02/2005	20A	502206
02/07/2005	020705HCCPSCC9	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/07/2005	02/09/2005	03/02/2005	21A	502206
02/07/2005	020705HCCPSCC5	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/07/2005	02/09/2005	03/02/2005	22A	502206
02/08/2005	020805HCCPSCC3	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/08/2005	02/10/2005	02/24/2005	01A	502235
02/08/2005	020805HCCPSCC4	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/08/2005	02/10/2005	02/24/2005	02A	502235
02/08/2005	020805HCCPSCC6	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/08/2005	02/10/2005	02/24/2005	03A	502235

APPENDIX E
Soil Vapor and Sub-Slab Tracking Table

Hartford, Illinois

Sample Date	Sample ID	Sample Matrix	Analysis Type	Sampling Purpose	Laboratory	Date			Laboratory Sample ID	Laboratory Report Number
						Sampled	Received By Lab	Reported By Lab		
02/08/2005	020805HCCPSCC8	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/08/2005	02/10/2005	02/24/2005	04A	502235
02/08/2005	020805HCCPSCC8Dup	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/08/2005	02/10/2005	02/24/2005	05A	502235
02/08/2005	020805HCCPSCC9	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/08/2005	02/10/2005	02/24/2005	06A	502235
02/08/2005	020805HCCPSEXT	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/08/2005	02/10/2005	02/24/2005	07A	502235
02/08/2005	020805HCCPSKitchenCloset	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/08/2005	02/10/2005	02/24/2005	08A	502235
02/08/2005	020805HCCPSMensRoom	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/08/2005	02/10/2005	02/24/2005	09A	502235
02/08/2005	020805HCCPSCafeStorage	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/08/2005	02/10/2005	02/24/2005	10A	502235
02/08/2005	020805HCCPSER	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/08/2005	02/10/2005	02/24/2005	11A	502235
02/08/2005	020805HCCPSCafe	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/08/2005	02/10/2005	02/24/2005	12A	502235
02/09/2005	020905HCCPSCC1	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/09/2005	02/10/2005	03/03/2005	01A	502233
02/09/2005	020905HCCPSCC3	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/09/2005	02/10/2005	03/03/2005	02A	502233
02/09/2005	020905HCCPSCC4	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/09/2005	02/10/2005	03/03/2005	03A	502233
02/09/2005	020905HCCPSCC6	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/09/2005	02/10/2005	03/03/2005	04A	502233
02/09/2005	020905HCCPSCC6Dup	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/09/2005	02/10/2005	03/03/2005	05A	502233
02/09/2005	020905HCCPSCC8	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/09/2005	02/10/2005	03/03/2005	06A	502233
02/09/2005	020905HCCPSCC9	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/09/2005	02/10/2005	03/03/2005	07A	502233
02/09/2005	020905HCCPSER	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/09/2005	02/10/2005	03/03/2005	08A	502233
02/09/2005	020905HCCPSCafe	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/09/2005	02/10/2005	03/03/2005	09A	502233
02/09/2005	020905HCCPSCafeStorage	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/09/2005	02/10/2005	03/03/2005	10A	502233
02/09/2005	020905HCCPSMensRoom	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/09/2005	02/10/2005	03/03/2005	11A	502233
02/09/2005	020905HCCPSKitchenCloset	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/09/2005	02/10/2005	03/03/2005	12A	502233
02/09/2005	020905HCCPSExt	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/09/2005	02/10/2005	03/03/2005	13A	502233
02/10/2005	021005112WBirch1	Air	Ensrsub-slab list, methane,Isopentane	Resident Sub-slab	Air Toxics, Ltd.	02/10/2005	02/12/2005	02/22/2005	01A	502272
02/10/2005	021005112WBirchB	Air	Ensrsub-slab list, methane,Isopentane	Resident Sub-slab	Air Toxics, Ltd.	02/10/2005	02/12/2005	02/22/2005	02A	502272
02/10/2005	021005112WBirchSS1	Air	Ensrsub-slab list, methane,Isopentane	Resident Sub-slab	Air Toxics, Ltd.	02/10/2005	02/12/2005	02/22/2005	03A	502272
02/10/2005	021002112WBirchSS2	Air	Ensrsub-slab list, methane,Isopentane	Resident Sub-slab	Air Toxics, Ltd.	02/10/2005	02/12/2005	02/22/2005	04A	502272
02/10/2005	021005112WBirchSS3	Air	Ensrsub-slab list, methane,Isopentane	Resident Sub-slab	Air Toxics, Ltd.	02/10/2005	02/12/2005	02/22/2005	05A	502272
02/10/2005	021005112WBirchSS4	Air	Ensrsub-slab list, methane,Isopentane	Resident Sub-slab	Air Toxics, Ltd.	02/10/2005	02/12/2005	02/22/2005	06A	502272
02/10/2005	021005HCCPSMensRoom	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/10/2005	02/11/2005	02/24/2005	11A	502264
02/10/2005	021005HCCPSKitchenCloset	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/10/2005	02/11/2005	02/24/2005	12A	502264
02/10/2005	021005HCCPSER	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/10/2005	02/11/2005	02/24/2005	13A	502264
02/10/2005	021005HCCPSHSVE20-IF	Air	T014,T015,ASTM D-1946,Methane, CO2,O2, TPH as Gasoline	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/10/2005	02/11/2005	02/24/2005	14A	502264
02/10/2005	021005HCCPSHSVE20-EF	Air	T014,T015,ASTM D-1946,Methane, CO2,O2, TPH as Gasoline	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/10/2005	02/11/2005	02/24/2005	15A	502264
02/10/2005	021005HCCPSHSVE20-EX	Air	T014,T015,ASTM D-1946,Methane, CO2,O2, TPH as Gasoline	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/10/2005	02/11/2005	02/24/2005	16A	502264
02/10/2005	021005HCCPS-CC1	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/10/2005	02/11/2005	02/24/2005	01A	502264
02/10/2005	021005HCCPS-CC3	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/10/2005	02/11/2005	02/24/2005	02A	502264
02/10/2005	021005HCCPS-CC4	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/10/2005	02/11/2005	02/24/2005	03A	502264
02/10/2005	021005HCCPSDUP	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/10/2005	02/11/2005	02/24/2005	04A	502264
02/10/2005	021005HCCPS-CC6	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/10/2005	02/11/2005	02/24/2005	05A	502264
02/10/2005	021005HCCPS-CC8	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/10/2005	02/11/2005	02/24/2005	06A	502264
02/10/2005	021005HCCPS-CC9	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/10/2005	02/11/2005	02/24/2005	07A	502264
02/10/2005	021005HCCPS-EXT	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/10/2005	02/11/2005	02/24/2005	08A	502264
02/10/2005	021005HCCPS-CAFÉ	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/10/2005	02/11/2005	02/24/2005	09A	502264
02/10/2005	021005HCCPS-CAFESTORAGE	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	HCC Pilot-Test (Week 2)	Air Toxics, Ltd.	02/10/2005	02/11/2005	02/24/2005	10A	502264
02/11/2005	021105126WELMEXT	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	Resident Sub-slab	Air Toxics, Ltd.	02/11/2005	02/14/2005	03/08/2005	01A	502278
02/11/2005	021105126WELM1	Air	ENSR SUBSLABLIST, METHANE, ISOPENTANE	Resident Sub-slab	Air Toxics, Ltd.	02/11/2005	02/14/2005	02/17/2005	02A	502278
02/11/2005	021105126WELMB	Air	ENSR SUBSLABLIST, METHANE, ISOPENTANE	Resident Sub-slab	Air Toxics, Ltd.	02/11/2005	02/14/2005	02/22/2005	03A	502278
02/11/2005	021105126WELMSS1	Air	ENSR SUBSLABLIST, METHANE, ISOPENTANE	Resident Sub-slab	Air Toxics, Ltd.	02/11/2005	02/14/2005	02/22/2005	04A	502278
02/11/2005	021105126WELMSS2	Air	ENSR SUBSLABLIST, METHANE, ISOPENTANE	Resident Sub-slab	Air Toxics, Ltd.	02/11/2005	02/14/2005	02/22/2005	05A	502278
02/15/2005	021505310NDELMARB	Air	ENSR SUBSLABLIST, METHANE, ISOPENTANE	Resident Sub-slab	Air Toxics, Ltd.	02/15/2005	02/17/2005	03/07/2005	01A	502352
02/15/2005	021505310NDELMAR1	Air	ENSR SUBSLABLIST, METHANE, ISOPENTANE	Resident Sub-slab	Air Toxics, Ltd.	02/15/2005	02/17/2005	03/07/2005	02A	502352

APPENDIX E
Soil Vapor and Sub-Slab Tracking Table

Hartford, Illinois

Sample Date	Sample ID	Sample Matrix	Analysis Type	Sampling Purpose	Laboratory	Date			Laboratory Sample ID	Laboratory Report Number
						Sampled	Received By Lab	Reported By Lab		
02/15/2005	021505122EFORESTSS1	Air	ENSR SUBSLABLIST, METHANE, ISOPENTANE	Resident Sub-slab	Air Toxics, Ltd.	02/15/2005	02/17/2005	03/07/2005	03A	502352
02/15/2005	021505122EFORESTSS2	Air	ENSR SUBSLABLIST, METHANE, ISOPENTANE	Resident Sub-slab	Air Toxics, Ltd.	02/15/2005	02/17/2005	03/07/2005	04A	502352
02/15/2005	021505122EFORESTSS3	Air	ENSR SUBSLABLIST, METHANE, ISOPENTANE	Resident Sub-slab	Air Toxics, Ltd.	02/15/2005	02/17/2005	03/07/2005	05A	502352
02/15/2005	021505122EFORESTB	Air	ENSR SUBSLABLIST, METHANE, ISOPENTANE	Resident Sub-slab	Air Toxics, Ltd.	02/15/2005	02/17/2005	03/07/2005	06A	502352
02/15/2005	021505122EFOREST1	Air	ENSR SUBSLABLIST, METHANE, ISOPENTANE	Resident Sub-slab	Air Toxics, Ltd.	02/15/2005	02/17/2005	03/07/2005	07A	502352
02/15/2005	021505114NDELMAREXT	Air	T014,T015,ASTM D-1946,Methane, CO2,O2	Resident Sub-slab	Air Toxics, Ltd.	02/15/2005	02/17/2005	03/07/2005	08A	502352
02/15/2005	021505114NDELMAR1	Air	ENSR SUBSLABLIST, METHANE, ISOPENTANE	Resident Sub-slab	Air Toxics, Ltd.	02/15/2005	02/17/2005	03/07/2005	09A	502352
02/15/2005	021505114NDELMARB	Air	ENSR SUBSLABLIST, METHANE, ISOPENTANE	Resident Sub-slab	Air Toxics, Ltd.	02/15/2005	02/17/2005	03/07/2005	10A	502352
02/15/2005	021505114NDELMARSS1	Air	ENSR SUBSLABLIST, METHANE, ISOPENTANE	Resident Sub-slab	Air Toxics, Ltd.	02/15/2005	02/17/2005	03/07/2005	11A	502352
02/15/2005	021505114NDELMARSS1DUP	Air	ENSR SUBSLABLIST, METHANE, ISOPENTANE	Resident Sub-slab	Air Toxics, Ltd.	02/15/2005	02/17/2005	03/07/2005	12A	502352
02/15/2005	021505114NDELMARSS2	Air	ENSR SUBSLABLIST, METHANE, ISOPENTANE	Resident Sub-slab	Air Toxics, Ltd.	02/15/2005	02/17/2005	03/07/2005	13A	502352
02/15/2005	021505SEWERA1	Air	TO14A,TO15, ASTM D-1946	SEWERS	Air Toxics, Ltd.	02/15/2005	02/16/2005	02/24/2005	01A	502325
02/15/2005	021505SEWERB	Air	TO14A,TO15, ASTM D-1946	SEWERS	Air Toxics, Ltd.	02/15/2005	02/16/2005	02/24/2005	02A	502325
02/15/2005	021505SEWERE	Air	TO14A,TO15, ASTM D-1946	SEWERS	Air Toxics, Ltd.	02/15/2005	02/16/2005	02/24/2005	03A	502325
02/15/2005	021505SEWERD	Air	TO14A,TO15, ASTM D-1946	SEWERS	Air Toxics, Ltd.	02/15/2005	02/16/2005	02/24/2005	04A	502325
02/15/2005	021505SEWERC	Air	TO14A,TO15, ASTM D-1946	SEWERS	Air Toxics, Ltd.	02/15/2005	02/16/2005	02/24/2005	05A	502325
02/15/2005	021505SEWERA	Air	TO14A,TO15, ASTM D-1946	SEWERS	Air Toxics, Ltd.	02/15/2005	02/16/2005	02/24/2005	06A	502325
02/15/2005	021505HCC-EXT	Air	TO14A,TO15, ASTM D-1946	HCC-High LEL % at Sewers	Air Toxics, Ltd.	02/15/2005	02/16/2005	02/24/2005	07A	502325
02/15/2005	021505HCC-CAFÉ	Air	TO14A,TO15, ASTM D-1946	HCC-High LEL % at Sewers	Air Toxics, Ltd.	02/15/2005	02/16/2005	02/24/2005	08A	502325
02/15/2005	021505HCC-MR	Air	TO14A,TO15, ASTM D-1946	HCC-High LEL % at Sewers	Air Toxics, Ltd.	02/15/2005	02/16/2005	02/24/2005	09A	502325
02/15/2005	021505HCC-K	Air	TO14A,TO15, ASTM D-1946	HCC-High LEL % at Sewers	Air Toxics, Ltd.	02/15/2005	02/16/2005	02/24/2005	10A	502325
02/15/2005	021505HCC-UWS	Air	TO14A,TO15, ASTM D-1946	HCC-High LEL % at Sewers	Air Toxics, Ltd.	02/15/2005	02/16/2005	02/24/2005	11A	502325
02/16/2005	021605610NOLDStLouis1	Air	ENSR SUBSLABLIST, METHANE, ISOPENTANE	Resident Sub-slab	Air Toxics, Ltd.	02/16/2005	02/18/2005	02/28/2005	01A	502336
02/16/2005	021605610NOLDStLouisB	Air	ENSR SUBSLABLIST, METHANE, ISOPENTANE	Resident Sub-slab	Air Toxics, Ltd.	02/16/2005	02/18/2005	02/28/2005	02A	502336
02/16/2005	021605610NOLDStLouisSS3	Air	ENSR SUBSLABLIST, METHANE, ISOPENTANE	Resident Sub-slab	Air Toxics, Ltd.	02/16/2005	02/18/2005	02/28/2005	03A	502336
02/16/2005	021605610NOLDStLouisSS2	Air	ENSR SUBSLABLIST, METHANE, ISOPENTANE	Resident Sub-slab	Air Toxics, Ltd.	02/16/2005	02/18/2005	02/28/2005	04A	502336
02/16/2005	021605610NOLDStLouisSS1	Air	ENSR SUBSLABLIST, METHANE, ISOPENTANE	Resident Sub-slab	Air Toxics, Ltd.	02/16/2005	02/18/2005	02/28/2005	05A	502336
02/18/2005	021805HCCSSCC8	Air	T0-15,ASTM D-1946, A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	02/18/2005	02/22/2005	03/07/2005	01A	502410
02/18/2005	021805HCCSSCC7D	Air	T0-15,ASTM D-1946, A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	02/18/2005	02/22/2005	03/07/2005	02A	502410
02/18/2005	021805HCCSSCC7	Air	T0-15,ASTM D-1946, A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	02/18/2005	02/22/2005	03/07/2005	03A	502410
02/18/2005	021805HCCSSCC7DUP	Air	T0-15,ASTM D-1946, A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	02/18/2005	02/22/2005	03/07/2005	04A	502410
02/18/2005	021805HCCSSCC5	Air	T0-15,ASTM D-1946, A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	02/18/2005	02/22/2005	03/07/2005	05A	502410
02/18/2005	021805HCCSSCC9	Air	T0-15,ASTM D-1946, A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	02/18/2005	02/22/2005	03/07/2005	06A	502410
02/18/2005	021805HCCSSCC3	Air	T0-15,ASTM D-1946, A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	02/18/2005	02/22/2005	03/07/2005	07A	502410
02/18/2005	021805HCCSSCC2	Air	T0-15,ASTM D-1946, A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	02/18/2005	02/22/2005	03/07/2005	08A	502410
02/18/2005	021805HCCSSCC6	Air	T0-15,ASTM D-1946, A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	02/18/2005	02/22/2005	03/07/2005	09A	502410
02/18/2005	021805HCCSSCC12	Air	T0-15,ASTM D-1946, A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	02/18/2005	02/22/2005	03/07/2005	10A	502410
02/18/2005	021805HCCSSCC4	Air	T0-15,ASTM D-1946, A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	02/18/2005	02/22/2005	03/07/2005	11A	502410
02/18/2005	021805HCCSSCC1	Air	T0-15,ASTM D-1946, A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	02/18/2005	02/22/2005	03/07/2005	12A	502410
02/18/2005	021805HCCSSCC11	Air	T0-15,ASTM D-1946, A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	02/18/2005	02/22/2005	03/07/2005	13A	502410
02/18/2005	021805HCCE-30	Air	T0-15,ASTM D-1946, A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	02/18/2005	02/22/2005	03/07/2005	14A	502410
02/18/2005	021805HCCSSCC10	Air	T0-15,ASTM D-1946, A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	02/18/2005	02/22/2005	03/07/2005	15A	502410
02/18/2005	021805HCC-CAF	Air	T0-15,ASTM D-1946, A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	02/18/2005	02/22/2005	03/04/2005	01A	502416
02/18/2005	021805HCC-CAFCLOSET	Air	T0-15,ASTM D-1946, A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	02/18/2005	02/22/2005	03/04/2005	02A	502416
02/18/2005	021805HCC-KITCHEN	Air	T0-15,ASTM D-1946, A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	02/18/2005	02/22/2005	03/04/2005	03A	502416
02/18/2005	021805HCC-KITCHEN CLOSET	Air	T0-15,ASTM D-1946, A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	02/18/2005	02/22/2005	03/04/2005	04A	502416
02/18/2005	1805HCC-KITCHEN CLOSETDI	Air	T0-15,ASTM D-1946, A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	02/18/2005	02/22/2005	03/04/2005	05A	502416
02/18/2005	021805HCC-MR	Air	T0-15,ASTM D-1946, A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	02/18/2005	02/22/2005	03/04/2005	06A	502416
02/18/2005	021805HCC-EH	Air	T0-15,ASTM D-1946, A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	02/18/2005	02/22/2005	03/04/2005	07A	502416
02/18/2005	021805HCC-BR	Air	T0-15,ASTM D-1946, A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	02/18/2005	02/22/2005	03/04/2005	08A	502416
02/18/2005	021805HCC-UWS	Air	T0-15,ASTM D-1946, A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	02/18/2005	02/22/2005	03/04/2005	09A	502416
02/18/2005	021805HCC-EXT24	Air	T0-15,ASTM D-1946, A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	02/18/2005	02/22/2005	03/04/2005	10A	502416

APPENDIX E
Soil Vapor and Sub-Slab Tracking Table

Hartford, Illinois

Sample Date	Sample ID	Sample Matrix	Analysis Type	Sampling Purpose	Laboratory	Date			Laboratory Sample ID	Laboratory Report Number
						Sampled	Received By Lab	Reported By Lab		
02/21/2005	022105-VMP-18M	Air	T014,TO15 (ENSR SHORTLIST) ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/21/2005	02/22/2005	03/07/2005	01A	502414
02/21/2005	022105-VMP-29M	Air	T014,TO15 (ENSR SHORTLIST) ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/21/2005	02/22/2005	03/07/2005	02A	502414
02/21/2005	022105-VMP-9	Air	T014,TO15 (ENSR SHORTLIST) ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/21/2005	02/22/2005	03/07/2005	03A	502414
02/21/2005	022105-MP-38A	Air	T014,TO15 (ENSR SHORTLIST) ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/21/2005	02/22/2005	03/07/2005	04A	502414
02/21/2005	022105-MP-38B	Air	T014,TO15 (ENSR SHORTLIST) ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/21/2005	02/22/2005	03/07/2005	05A	502414
02/21/2005	022105-MP-38C	Air	T014,TO15 (ENSR SHORTLIST) ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/21/2005	02/22/2005	03/07/2005	06A	502414
02/21/2005	022105-MP-40C	Air	T014,TO15 (ENSR SHORTLIST) ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/21/2005	02/22/2005	03/07/2005	07A	502414
02/21/2005	022105-MP-41A	Air	T014,TO15 (ENSR SHORTLIST) ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/21/2005	02/22/2005	03/07/2005	08A	502414
02/21/2005	022105-MP-41B	Air	T014,TO15 (ENSR SHORTLIST) ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/21/2005	02/22/2005	03/07/2005	09A	502414
02/21/2005	022105-MP-37A	Air	T014,TO15 (ENSR SHORTLIST) ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/21/2005	02/22/2005	03/07/2005	10A	502414
02/21/2005	022105-MP-37B	Air	T014,TO15 (ENSR SHORTLIST) ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/21/2005	02/22/2005	03/07/2005	11A	502414
02/21/2005	022105-MP-37C	Air	T014,TO15 (ENSR SHORTLIST) ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/21/2005	02/22/2005	03/07/2005	12A	502414
02/21/2005	022105-MP37CDUP	Air	T014,TO15 (ENSR SHORTLIST) ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/21/2005	02/22/2005	03/07/2005	13A	502414
02/21/2005	022105-MP37D	Air	T014,TO15 (ENSR SHORTLIST) ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/21/2005	02/22/2005	03/07/2005	14A	502414
02/21/2005	022105-VMP6S	Air	T014,TO15 (ENSR SHORTLIST) ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/21/2005	02/22/2005	03/07/2005	15A	502414
02/21/2005	022105-VMP-6SDUP	Air	T014,TO15 (ENSR SHORTLIST) ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/21/2005	02/22/2005	03/07/2005	16A	502414
02/21/2005	022105-VMP-6M	Air	T014,TO15 (ENSR SHORTLIST) ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/21/2005	02/22/2005	03/07/2005	17A	502414
02/22/2005	022205-PO-E	Air	TO14,TO15, ASTMD-1946		Air Toxics, Ltd.	02/22/2005	02/25/2005	03/09/2005	01A	502504
02/22/2005	022205VMP57VS	Air	TO14,TO15 (ENSR SHORT LIST)ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/22/2005	02/23/2005	03/08/2005	01A	502449
02/22/2005	022205VMP57S	Air	TO14,TO15 (ENSR SHORT LIST)ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/22/2005	02/23/2005	03/08/2005	02A	502449
02/22/2005	0222505VMP88VS	Air	TO14,TO15 (ENSR SHORT LIST)ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/22/2005	02/23/2005	03/08/2005	03A	502449
02/22/2005	022205VMP88S	Air	TO14,TO15 (ENSR SHORT LIST)ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/22/2005	02/23/2005	03/08/2005	04A	502449
02/22/2005	022205VMP89VS	Air	TO14,TO15 (ENSR SHORT LIST)ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/22/2005	02/23/2005	03/08/2005	05A	502449
02/22/2005	022205VMP89S	Air	TO14,TO15 (ENSR SHORT LIST)ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/22/2005	02/23/2005	03/08/2005	06A	502449
02/22/2005	22205VMP89SDUP	Air	TO14,TO15 (ENSR SHORT LIST)ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/22/2005	02/23/2005	03/08/2005	07A	502449
02/22/2005	022205VMP91S	Air	TO14,TO15 (ENSR SHORT LIST)ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/22/2005	02/23/2005	03/08/2005	08A	502449
02/22/2005	022205MP43C	Air	TO14,TO15 (ENSR SHORT LIST)ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/22/2005	02/23/2005	03/08/2005	09A	502449
02/22/2005	22205MP41C	Air	TO14,TO15 (ENSR SHORT LIST)ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/22/2005	02/23/2005	03/08/2005	10A	502449
02/22/2005	022205MP9S	Air	TO14,TO15 (ENSR SHORT LIST)ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/22/2005	02/23/2005	03/08/2005	11A	502449
02/22/2005	022205MP74	Air	TO14,TO15 (ENSR SHORT LIST)ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/22/2005	02/23/2005	03/08/2005	12A	502449
02/22/2005	022205MP75	Air	TO14,TO15 (ENSR SHORT LIST)ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/22/2005	02/23/2005	03/08/2005	13A	502449
02/22/2005	022205MP76	Air	TO14,TO15 (ENSR SHORT LIST)ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/22/2005	02/23/2005	03/08/2005	14A	502449
02/22/2005	022205VMP94VS	Air	TO14,TO15 (ENSR SHORT LIST)ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/22/2005	02/23/2005	03/08/2005	15A	502449
02/22/2005	022205VMP94S	Air	TO14,TO15 (ENSR SHORT LIST)ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/22/2005	02/23/2005	03/08/2005	16A	502449
02/22/2005	022205VMP93VS	Air	TO14,TO15 (ENSR SHORT LIST)ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/22/2005	02/23/2005	03/08/2005	17A	502449
02/22/2005	022205VMP93S	Air	TO14,TO15 (ENSR SHORT LIST)ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/22/2005	02/23/2005	03/08/2005	18A	502449
02/22/2005	022205VMP92VS	Air	TO14,TO15 (ENSR SHORT LIST)ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/22/2005	02/23/2005	03/08/2005	19A	502449
02/22/2005	022205VMP92S	Air	TO14,TO15 (ENSR SHORT LIST)ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/22/2005	02/23/2005	03/08/2005	20A	502449
02/22/2005	022205VMP90S	Air	TO14,TO15 (ENSR SHORT LIST)ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/22/2005	02/23/2005	03/08/2005	21A	502449
02/22/2005	022205VMP90VS	Air	TO14,TO15 (ENSR SHORT LIST)ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/22/2005	02/23/2005	03/08/2005	22A	502449
02/22/2005	022205PA46	Air	TO14,TO15 (ENSR SHORT LIST)ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/22/2005	02/23/2005	03/08/2005	23A	502449
02/22/2005	022205PA53	Air	TO14,TO15 (ENSR SHORT LIST)ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/22/2005	02/23/2005	03/08/2005	24A	502449
02/22/2005	022205PA61	Air	TO14,TO15 (ENSR SHORT LIST)ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/22/2005	02/23/2005	03/08/2005	25A	502449
02/22/2005	022205PA67	Air	TO14,TO15 (ENSR SHORT LIST)ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/22/2005	02/23/2005	03/08/2005	26A	502449
02/22/2005	022205MP47C	Air	TO14,TO15 (ENSR SHORT LIST)ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/22/2005	02/23/2005	03/08/2005	27A	502449
02/22/2005	022205MP63A	Air	TO14,TO15 (ENSR SHORT LIST)ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/22/2005	02/23/2005	03/08/2005	28A	502449
02/22/2005	022205MP63B	Air	TO14,TO15 (ENSR SHORT LIST)ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/22/2005	02/23/2005	03/08/2005	29A	502449
02/22/2005	022205MP63C	Air	TO14,TO15 (ENSR SHORT LIST)ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/22/2005	02/23/2005	03/08/2005	30A	502449
02/22/2005	022205MP63CDUP	Air	TO14,TO15 (ENSR SHORT LIST)ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/22/2005	02/23/2005	03/08/2005	31A	502449
02/22/2005	022205MP66C	Air	TO14,TO15 (ENSR SHORT LIST)ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/22/2005	02/23/2005	03/08/2005	32A	502449
02/22/2005	022205MP65C	Air	TO14,TO15 (ENSR SHORT LIST)ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/22/2005	02/23/2005	03/08/2005	33A	502449
02/22/2005	022205MP67A	Air	TO14,TO15 (ENSR SHORT LIST)ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/22/2005	02/23/2005	03/08/2005	34A	502449

APPENDIX E
Soil Vapor and Sub-Slab Tracking Table

Hartford, Illinois

Sample Date	Sample ID	Sample Matrix	Analysis Type	Sampling Purpose	Laboratory	Date			Laboratory Sample ID	Laboratory Report Number
						Sampled	Received By Lab	Reported By Lab		
02/22/2005	022205MP67B	Air	TO14,TO15 (ENSR SHORT LIST)ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/22/2005	02/23/2005	03/08/2005	35A	502449
02/22/2005	022205MP67C	Air	TO14,TO15 (ENSR SHORT LIST)ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/22/2005	02/23/2005	03/08/2005	36A	502449
02/22/2005	022205MP68	Air	TO14,TO15 (ENSR SHORT LIST)ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/22/2005	02/23/2005	03/08/2005	37A	502449
02/22/2005	022205MP69	Air	TO14,TO15 (ENSR SHORT LIST)ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/22/2005	02/23/2005	03/08/2005	38A	502449
02/22/2005	022205MP70	Air	TO14,TO15 (ENSR SHORT LIST)ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/22/2005	02/23/2005	03/08/2005	39A	502449
02/22/2005	022205MP71	Air	TO14,TO15 (ENSR SHORT LIST)ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/22/2005	02/23/2005	03/08/2005	40A	502449
02/22/2005	022205MP72	Air	TO14,TO15 (ENSR SHORT LIST)ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/22/2005	02/23/2005	03/08/2005	41A	502449
02/22/2005	022205MP73	Air	TO14,TO15 (ENSR SHORT LIST)ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/22/2005	02/23/2005	03/08/2005	42A	502449
02/22/2005	022205MP73DUP	Air	TO14,TO15 (ENSR SHORT LIST)ASTM-D-1946	Vapor Migration	Air Toxics, Ltd.	02/22/2005	02/23/2005	03/08/2005	43A	502449
02/23/2005	022305124WFOREST-E	Air	TO14,TO15,ASTM D-1946,METHANE,CO2	Resident Sub-slab	Air Toxics, Ltd.	02/23/2005	02/25/2005	03/04/2005	01A	502502
02/23/2005	022305111WDATESS1	Air	ENSR SUBSLABLIST, METHANE, ISOPENTANE	Resident Sub-slab	Air Toxics, Ltd.	02/23/2005	02/25/2005	03/04/2005	02A	502502
02/23/2005	022305111WDATESS2	Air	ENSR SUBSLABLIST, METHANE, ISOPENTANE	Resident Sub-slab	Air Toxics, Ltd.	02/23/2005	02/25/2005	03/04/2005	03A	502502
02/23/2005	022305111WDATESS3	Air	ENSR SUBSLABLIST, METHANE, ISOPENTANE	Resident Sub-slab	Air Toxics, Ltd.	02/23/2005	02/25/2005	03/04/2005	04A	502502
02/23/2005	022305111WDATEB	Air	ENSR SUBSLABLIST, METHANE, ISOPENTANE	Resident Sub-slab	Air Toxics, Ltd.	02/23/2005	02/25/2005	03/04/2005	05A	502502
02/23/2005	022305111WDATE1	Air	ENSR SUBSLABLIST, METHANE, ISOPENTANE	Resident Sub-slab	Air Toxics, Ltd.	02/23/2005	02/25/2005	03/04/2005	06A	502502
02/23/2005	022305124WFOREST1	Air	ENSR SUBSLABLIST, METHANE, ISOPENTANE	Resident Sub-slab	Air Toxics, Ltd.	02/23/2005	02/25/2005	03/04/2005	07A	502502
02/23/2005	022305124WFORESTSS3	Air	ENSR SUBSLABLIST, METHANE, ISOPENTANE	Resident Sub-slab	Air Toxics, Ltd.	02/23/2005	02/25/2005	03/04/2005	08A	502502
02/23/2005	022305124WFORESTSS1	Air	ENSR SUBSLABLIST, METHANE, ISOPENTANE	Resident Sub-slab	Air Toxics, Ltd.	02/23/2005	02/25/2005	03/04/2005	09A	502502
02/23/2005	022305124WFORESTSS2	Air	ENSR SUBSLABLIST, METHANE, ISOPENTANE	Resident Sub-slab	Air Toxics, Ltd.	02/23/2005	02/25/2005	03/04/2005	10A	502502
02/23/2005	022305124WFORESTB	Air	ENSR SUBSLABLIST, METHANE, ISOPENTANE	Resident Sub-slab	Air Toxics, Ltd.	02/23/2005	02/25/2005	03/04/2005	11A	502502
02/24/2005	022405HCC-EXT	Air	ASTM D-1946,TO15,A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	02/24/2005	02/26/2005	03/21/2005	01A	502533
02/24/2005	02405HCC-UWS	Air	ASTM D-1946,TO15,A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	02/24/2005	02/26/2005	03/21/2005	02A	502533
02/24/2005	022405HCC-BR	Air	ASTM D-1946,TO15,A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	02/24/2005	02/26/2005	03/21/2005	03A	502533
02/24/2005	022405HCC-EH	Air	ASTM D-1946,TO15,A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	02/24/2005	02/26/2005	03/21/2005	04A	502533
02/24/2005	022405HCC-MRDUP	Air	ASTM D-1946,TO15,A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	02/24/2005	02/26/2005	03/21/2005	05A	502533
02/24/2005	022405HCC-KC	Air	ASTM D-1946,TO15,A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	02/24/2005	02/26/2005	03/21/2005	06A	502533
02/24/2005	022405HCC-K	Air	ASTM D-1946,TO15,A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	02/24/2005	02/26/2005	03/21/2005	07A	502533
02/24/2005	022405HCC-MR	Air	ASTM D-1946,TO15,A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	02/24/2005	02/26/2005	03/21/2005	08A	502533
02/24/2005	022405HCC-CAFÉ	Air	ASTM D-1946,TO15,A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	02/24/2005	02/26/2005	03/21/2005	09A	502533
02/24/2005	022405HCC-CAFÉ CLOSET	Air	ASTM D-1946,TO15,A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	02/24/2005	02/26/2005	03/21/2005	10A	502533
02/25/2005	022505HCC-CC7D	Air	ASTM D-1946,TO15,A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	02/25/2005	02/26/2005	03/18/2005	11A	502533
02/25/2005	022505HCC-CC7	Air	ASTM D-1946,TO15,A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	02/25/2005	02/26/2005	03/18/2005	12A	502533
02/25/2005	022505HCC-CC8	Air	ASTM D-1946,TO15,A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	02/25/2005	02/26/2005	03/18/2005	13A	502533
02/25/2005	022505HCC-CC9	Air	ASTM D-1946,TO15,A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	02/25/2005	02/26/2005	03/18/2005	14A	502533
02/25/2005	022505HCC-CC5	Air	ASTM D-1946,TO15,A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	02/25/2005	02/26/2005	03/18/2005	15A	502533
02/25/2005	022505HCC-CC5DUP	Air	ASTM D-1946,TO15,A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	02/25/2005	02/26/2005	03/18/2005	16A	502533
02/25/2005	022505HCC-CC6	Air	ASTM D-1946,TO15,A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	02/25/2005	02/26/2005	03/18/2005	17A	502533
02/25/2005	022505HCC-CC12	Air	ASTM D-1946,TO15,A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	02/25/2005	02/26/2005	03/18/2005	18A	502533
02/25/2005	022505HCC-CC2	Air	ASTM D-1946,TO15,A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	02/25/2005	02/26/2005	03/18/2005	19A	502533
02/25/2005	022505HCC-CC3	Air	ASTM D-1946,TO15,A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	02/25/2005	02/26/2005	03/18/2005	20A	502533
02/25/2005	022505HCC-CC4	Air	ASTM D-1946,TO15,A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	02/25/2005	02/26/2005	03/18/2005	21A	502533
02/25/2005	022505HCC-CC10	Air	ASTM D-1946,TO15,A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	02/25/2005	02/26/2005	03/18/2005	22A	502533
02/25/2005	022505HCC-CC11	Air	ASTM D-1946,TO15,A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	02/25/2005	02/26/2005	03/18/2005	23A	502533
02/25/2005	022505HCC-EXT30	Air	ASTM D-1946,TO15,A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	02/25/2005	02/26/2005	03/18/2005	24A	502533
02/25/2005	022505HCC-CC1	Air	ASTM D-1946,TO15,A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	02/25/2005	02/26/2005	03/18/2005	25A	502533
03/01/2005	030105310NDelmarB	Air	ENSR SUBSLABLIST, METHANE, ISOPENTANE	Resident Sub-slab	Air Toxics, Ltd.	03/01/2005	03/03/2005	03/10/2005	01A	503073
03/01/2005	030105310NDelmar1	Air	ENSR SUBSLABLIST, METHANE, ISOPENTANE	Resident Sub-slab	Air Toxics, Ltd.	03/01/2005	03/03/2005	03/10/2005	02A	503073
03/01/2005	030105310NDelmarExt	Air	ENSR SUBSLABLIST, METHANE, ISOPENTANE	Resident Sub-slab	Air Toxics, Ltd.	03/01/2005	03/03/2005	03/23/2005	03A	503073
03/02/2005	030205123WCherryEXT	Air	ENSR SUBSLABLIST, METHANE, ISOPENTANE	Resident Sub-slab	Air Toxics, Ltd.	03/02/2005	03/04/2005	03/10/2005	01A	503109
03/02/2005	030205123WCherrySS1	Air	ENSR SUBSLABLIST, METHANE, ISOPENTANE	Resident Sub-slab	Air Toxics, Ltd.	03/02/2005	03/04/2005	03/11/2005	02A	503109
03/02/2005	030205123WCherrySS2	Air	ENSR SUBSLABLIST, METHANE, ISOPENTANE	Resident Sub-slab	Air Toxics, Ltd.	03/02/2005	03/04/2005	03/11/2005	03A	503109
03/02/2005	030205123WCherrySS3	Air	ENSR SUBSLABLIST, METHANE, ISOPENTANE	Resident Sub-slab	Air Toxics, Ltd.	03/02/2005	03/04/2005	03/11/2005	05A	503109

APPENDIX E
Soil Vapor and Sub-Slab Tracking Table

Hartford, Illinois

Sample Date	Sample ID	Sample Matrix	Analysis Type	Sampling Purpose	Laboratory	Date			Laboratory Sample ID	Laboratory Report Number
						Sampled	Received By Lab	Reported By Lab		
03/02/2005	030205123WCherry1	Air	ENSR SUBSLABLIST, METHANE, ISOPENTANE	Resident Sub-slab	Air Toxics, Ltd.	03/02/2005	03/04/2005	03/11/2005	06A	503109
03/03/2005	030305134EWatkins1	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/03/2005	03/07/2005	03/13/2005	01A	503147
03/03/2005	030305134EWatkinsB	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/03/2005	03/07/2005	03/13/2005	02A	503147
03/03/2005	030305134EWatkinsEXT	Air	T014,T015,Methane,CO2,O2,ASTM D-1946	Resident Sub-slab	Air Toxics, Ltd.	03/03/2005	03/07/2005	03/23/2005	03A	503147
03/03/2005	030305134EWatkinsSS1	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/03/2005	03/07/2005	03/13/2005	04A	503147
03/03/2005	030305134EWatkinsSS2	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/03/2005	03/07/2005	03/13/2005	05A	503147
03/03/2005	030305134EWatkinsSS3	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/03/2005	03/07/2005	03/13/2005	06A	503147
03/03/2005	030305134EWatkinsSS4	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/03/2005	03/07/2005	03/13/2005	07A	503147
03/08/2005	030805210NOliveExt	Air	T014,T015,Methane,CO2,O2,ASTM D-1946	Resident Sub-slab	Air Toxics, Ltd.	03/08/2005	03/10/2005	03/16/2005	01A	503210
03/08/2005	030805201NOliveSS2	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/08/2005	03/10/2005	03/16/2005	02A	503210
03/08/2005	030805210NOliveSS2Dup	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/08/2005	03/10/2005	03/16/2005	03A	503210
03/08/2005	030805210NOliveSS3	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/08/2005	03/10/2005	03/16/2005	04A	503210
03/08/2005	030805210NOliveB	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/08/2005	03/10/2005	03/16/2005	06A	503210
03/08/2005	030805210NOlive1	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/08/2005	03/10/2005	03/16/2005	07A	503210
03/08/2005	030805127WForestSS1	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/08/2005	03/10/2005	03/17/2005	08A	503210
03/08/2005	030805127WForestSS2	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/08/2005	03/10/2005	03/17/2005	09A	503210
03/08/2005	030805127WForestSS3	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/08/2005	03/10/2005	03/17/2005	10A	503210
03/08/2005	030805127WForestSS4	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/08/2005	03/10/2005	03/17/2005	11A	503210
03/08/2005	030805127WForestB	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/08/2005	03/10/2005	03/17/2005	12A	503210
03/08/2005	030805127WForest1	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/08/2005	03/10/2005	03/17/2005	13A	503210
03/08/2005	030805120WCherry1	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/08/2005	03/10/2005	03/17/2005	14A	503210
03/08/2005	030805120WCherryB	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/08/2005	03/10/2005	03/17/2005	15A	503210
03/08/2005	030805120WCherrySS1	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/08/2005	03/10/2005	03/17/2005	16A	503210
03/08/2005	030805120WCherrySS1Dup	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/08/2005	03/10/2005	03/17/2005	17A	503210
03/08/2005	030805120WCherrySS2	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/08/2005	03/10/2005	03/17/2005	18A	503210
03/08/2005	030805120WCherrySS3	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/08/2005	03/10/2005	03/17/2005	19A	503210
03/10/2005	031005119WCherrySS3	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/10/2005	03/12/2005	03/20/2005	01A	503244
03/10/2005	031005119WCherrySS2	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/10/2005	03/12/2005	03/20/2005	02A	503244
03/10/2005	031005119WCherrySS1	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/10/2005	03/12/2005	03/20/2005	03A	503244
03/10/2005	031005119WCherryB	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/10/2005	03/12/2005	03/20/2005	04A	503244
03/10/2005	031005119WCherry1	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/10/2005	03/12/2005	03/20/2005	05A	503244
03/10/2005	031005119WCherryExt	Air	T014,T015,Methane,CO2,O2,ASTM D-1946	Resident Sub-slab	Air Toxics, Ltd.	03/10/2005	03/12/2005	03/17/2005	06A	503244
03/10/2005	031005VMP-37VS	Air	TO15(ENSR SHORTLIST)TO14,ASTMD-1946	Vapor Migration	Air Toxics, Ltd.	03/10/2005	03/11/2005	03/20/2005	01A	503231
03/10/2005	031005VMP-37S	Air	TO15(ENSR SHORTLIST)TO14,ASTMD-1946	Vapor Migration	Air Toxics, Ltd.	03/10/2005	03/11/2005	03/20/2005	02A	503231
03/10/2005	031005VMP-37M	Air	TO15(ENSR SHORTLIST)TO14,ASTMD-1946	Vapor Migration	Air Toxics, Ltd.	03/10/2005	03/11/2005	03/20/2005	03A	503231
03/10/2005	031005VMP-37D	Air	TO15(ENSR SHORTLIST)TO14,ASTMD-1946	Vapor Migration	Air Toxics, Ltd.	03/10/2005	03/11/2005	03/20/2005	04A	503231
03/10/2005	031005VMP84VS	Air	TO15(ENSR SHORTLIST)TO14,ASTMD-1946	Vapor Migration	Air Toxics, Ltd.	03/10/2005	03/11/2005	03/20/2005	05A	503231
03/10/2005	031005VMP84S	Air	TO15(ENSR SHORTLIST)TO14,ASTMD-1946	Vapor Migration	Air Toxics, Ltd.	03/10/2005	03/11/2005	03/20/2005	06A	503231
03/10/2005	031005VMP84M	Air	TO15(ENSR SHORTLIST)TO14,ASTMD-1946	Vapor Migration	Air Toxics, Ltd.	03/10/2005	03/11/2005	03/20/2005	07A	503231
03/10/2005	031005MP23	Air	TO15(ENSR SHORTLIST)TO14,ASTMD-1946	Vapor Migration	Air Toxics, Ltd.	03/10/2005	03/11/2005	03/20/2005	08A	503231
03/11/2005	031105MP52B	Air	TO15(ENSR SHORTLIST)TO14,ASTMD-1946	Vapor Migration	Air Toxics, Ltd.	03/11/2005	03/14/2005	03/21/2005	01A	503254
03/11/2005	031105MP52BDup	Air	TO15(ENSR SHORTLIST)TO14,ASTMD-1946	Vapor Migration	Air Toxics, Ltd.	03/11/2005	03/14/2005	03/21/2005	02A	503254
03/11/2005	031105MP33B	Air	TO15(ENSR SHORTLIST)TO14,ASTMD-1946	Vapor Migration	Air Toxics, Ltd.	03/11/2005	03/14/2005	03/21/2005	03A	503254
03/11/2005	031105MP33C	Air	TO15(ENSR SHORTLIST)TO14,ASTMD-1946	Vapor Migration	Air Toxics, Ltd.	03/11/2005	03/14/2005	03/21/2005	04A	503254
03/14/2005	031405130WWatkins1	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/14/2005	03/16/2005	03/22/2005	07A	503304
03/14/2005	031405130WWatkinsSS3	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/14/2005	03/16/2005	03/22/2005	08A	503304
03/14/2005	031405130WWatkinsSS4	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/14/2005	03/16/2005	03/22/2005	09A	503304
03/14/2005	031405130WWatkinsSS2	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/14/2005	03/16/2005	03/22/2005	10A	503304
03/14/2005	031405130WWatkinsSS1	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/14/2005	03/16/2005	03/22/2005	11A	503304
03/14/2005	031405130WWatkinsB	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/14/2005	03/16/2005	03/22/2005	12A	503304
03/14/2005	031405130WWatkinsExt	Air	T014,T015,Methane,CO2,O2,ASTM D-1946	Resident Sub-slab	Air Toxics, Ltd.	03/14/2005	03/16/2005	03/22/2005	13A	503304
03/14/2005	031405128WForestSS1	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/14/2005	03/16/2005	03/22/2005	01A	503304

APPENDIX E
Soil Vapor and Sub-Slab Tracking Table

Hartford, Illinois

Sample Date	Sample ID	Sample Matrix	Analysis Type	Sampling Purpose	Laboratory	Date			Laboratory Sample ID	Laboratory Report Number
						Sampled	Received By Lab	Reported By Lab		
03/14/2005	031405128WForestSS1Dup	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/14/2005	03/16/2005	03/22/2005	02A	503304
03/14/2005	031405128WForestSS2	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/14/2005	03/16/2005	03/22/2005	03A	503304
03/14/2005	031405128WForestSS3	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/14/2005	03/16/2005	03/22/2005	04A	503304
03/14/2005	031405128WForestB	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/14/2005	03/16/2005	03/22/2005	05A	503304
03/14/2005	031405128WForest1	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/14/2005	03/16/2005	03/22/2005	06A	503304
03/15/2005	031505310NDelmarExtPort	Air	BTEX,Methane	Resident Sub-slab	Air Toxics, Ltd.	03/15/2005	03/17/2005	03/18/2005	01A	503309
03/15/2005	031505310NDelmarSS1	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/15/2005	03/17/2005	03/22/2005	01A	503341
03/15/2005	031505310NDelmarSS2	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/15/2005	03/17/2005	03/22/2005	02A	503341
03/15/2005	031505310NDelmarSS3	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/15/2005	03/17/2005	03/22/2005	03A	503341
03/15/2005	031505310NDelmarSS4	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/15/2005	03/17/2005	03/22/2005	04A	503341
03/15/2005	031505310NDelmarSS5	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/15/2005	03/17/2005	03/22/2005	05A	503341
03/15/2005	031505310NDelmarExt	Air	T014,T015,Methane,CO2,O2,ASTM D-1946	Resident Sub-slab	Air Toxics, Ltd.	03/15/2005	03/17/2005	03/22/2005	06A	503341
03/15/2005	031505310NDelmar1	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/15/2005	03/17/2005	03/22/2005	07A	503341
03/15/2005	031505310NDelmarB	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/15/2005	03/17/2005	03/22/2005	08A	503341
03/17/2005	031705118WBirch1Dup	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/17/2005	03/21/2005	03/29/2005	01A	503401
03/17/2005	031705118WBirch1	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/17/2005	03/21/2005	03/29/2005	02A	503401
03/17/2005	031705118WBirchSS2	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/17/2005	03/21/2005	03/29/2005	03A	503401
03/17/2005	031705118WBirchB	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/17/2005	03/21/2005	03/29/2005	04A	503401
03/17/2005	031705118WBirchSS1	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/17/2005	03/21/2005	03/29/2005	05A	503401
03/17/2005	031705118WBirchSS3	Air	ENSR SUBSLABLIST	Resident Sub-slab	Air Toxics, Ltd.	03/17/2005	03/21/2005	03/29/2005	06A	503401
03/18/2005	031705118WBirchExt	Air	T014,T015,Methane,CO2,O2,ASTM D-1946	Resident Sub-slab	Air Toxics, Ltd.	03/17/2005	03/21/2005	03/24/2005	07A	503401
03/18/2005	031805HCCCafe'Closet	Air	ASTM D-1946,TO15,A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/18/2005	03/21/2005	03/24/2005	08A	503401
03/18/2005	031805HCCCafe'Dup	Air	ASTM D-1946,TO15,A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/18/2005	03/21/2005	03/24/2005	09A	503401
03/18/2005	031805HCCCafe'	Air	ASTM D-1946,TO15,A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/18/2005	03/21/2005	03/24/2005	10A	503401
03/18/2005	031805HCCK	Air	ASTM D-1946,TO15,A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/18/2005	03/21/2005	03/24/2005	11A	503401
03/18/2005	031805HCCEH	Air	ASTM D-1946,TO15,A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/18/2005	03/21/2005	03/24/2005	12A	503401
03/18/2005	031805HCCKC	Air	ASTM D-1946,TO15,A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/18/2005	03/21/2005	03/24/2005	13A	503401
03/18/2005	031805HCCMR	Air	ASTM D-1946,TO15,A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/18/2005	03/21/2005	03/24/2005	14A	503401
03/18/2005	031805HCCEXT	Air	ASTM D-1946,TO15,A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/18/2005	03/21/2005	03/24/2005	15A	503401
03/18/2005	031805HCCUWS	Air	ASTM D-1946,TO15,A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/18/2005	03/21/2005	03/24/2005	16A	503401
03/18/2005	031805HCCBR	Air	ASTM D-1946,TO15,A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/18/2005	03/21/2005	03/24/2005	17A	503401
03/18/2005	031805HCC CC7	Air	ASTM D-1946,TO15,A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/18/2005	03/21/2005	03/28/2005	18A	503401
03/18/2005	031805HCC CC7D	Air	ASTM D-1946,TO15,A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/18/2005	03/21/2005	03/28/2005	19A	503401
03/18/2005	031805HCC CC5	Air	ASTM D-1946,TO15,A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/18/2005	03/21/2005	03/28/2005	20A	503401
03/18/2005	031805HCC CC1	Air	ASTM D-1946,TO15,A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/18/2005	03/21/2005	03/28/2005	21A	503401
03/18/2005	031805HCC CC2	Air	ASTM D-1946,TO15,A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/18/2005	03/21/2005	03/28/2005	22A	503401
03/18/2005	031805HCC CC3	Air	ASTM D-1946,TO15,A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/18/2005	03/21/2005	03/28/2005	23A	503401
03/18/2005	031805HCC CC4	Air	ASTM D-1946,TO15,A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/18/2005	03/21/2005	03/28/2005	24A	503401
03/18/2005	031805HCC CC6	Air	ASTM D-1946,TO15,A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/18/2005	03/21/2005	03/28/2005	25A	503401
03/18/2005	031805HCC CC8	Air	ASTM D-1946,TO15,A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/18/2005	03/21/2005	03/28/2005	26A	503401
03/18/2005	031805HCC CC9	Air	ASTM D-1946,TO15,A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/18/2005	03/21/2005	03/28/2005	27A	503401
03/18/2005	031805HCC CC10	Air	ASTM D-1946,TO15,A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/18/2005	03/21/2005	03/28/2005	28A	503401
03/18/2005	031805HCC CC11	Air	ASTM D-1946,TO15,A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/18/2005	03/21/2005	03/28/2005	29A	503401
03/18/2005	031805HCC CC12	Air	ASTM D-1946,TO15,A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/18/2005	03/21/2005	03/28/2005	30A	503401
03/18/2005	031805HCC CC12Dup	Air	ASTM D-1946,TO15,A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/18/2005	03/21/2005	03/28/2005	31A	503401
03/18/2005	031805HCC CC1	Air	ASTM D-1946,TO15,A.T. @METH 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/18/2005	03/21/2005	03/28/2005	32A	503401
03/18/2005	031805129EMapleSS1	Air	Ensr Subslab list	Resident Sub-slab	Air Toxics, Ltd.	03/18/2005	03/21/2005	03/30/2005	01A	503391
03/18/2005	031805129EMapleSS2	Air	Ensr Subslab list	Resident Sub-slab	Air Toxics, Ltd.	03/18/2005	03/21/2005	03/30/2005	02A	503391
03/18/2005	031805129EMapleB	Air	Ensr Subslab list	Resident Sub-slab	Air Toxics, Ltd.	03/18/2005	03/21/2005	03/30/2005	03A	503391
03/18/2005	031805129EMaple1	Air	Ensr Subslab list	Resident Sub-slab	Air Toxics, Ltd.	03/18/2005	03/21/2005	03/30/2005	04A	503391
03/18/2005	031805129EMapleSS3	Air	Ensr Subslab list	Resident Sub-slab	Air Toxics, Ltd.	03/18/2005	03/21/2005	03/30/2005	05A	503391

APPENDIX E
Soil Vapor and Sub-Slab Tracking Table

Hartford, Illinois

Sample Date	Sample ID	Sample Matrix	Analysis Type	Sampling Purpose	Laboratory	Date			Laboratory Sample ID	Laboratory Report Number
						Sampled	Received By Lab	Reported By Lab		
03/21/2005	032105 Police Dept Ext 24	Air	BTEX - 24 hour, Remainder of Sub-slab List - 72 hour	Resident Sub-slab	Air Toxics, Ltd.	03/21/2005	03/23/2005	03/24/2005	01A	503431
03/21/2005	032105 310NDelmar Ext	Air	BTEX - 24 hour, Remainder of Sub-slab List - 72 hour	Resident Sub-slab	Air Toxics, Ltd.	03/21/2005	03/23/2005	03/24/2005	01A	503433
03/21/2005	032105 310NDelmar B	Air	BTEX - 24 hour, Remainder of Sub-slab List - 72 hour	Resident Sub-slab	Air Toxics, Ltd.	03/21/2005	03/23/2005	03/24/2005	02A	503433
03/21/2005	032105 318NDelmar B	Air	BTEX - 24 hour, Remainder of Sub-slab List - 72 hour	Resident Sub-slab	Air Toxics, Ltd.	03/21/2005	03/23/2005	03/24/2005	01A	503432
03/21/2005	032105 318NDelmar 1	Air	BTEX- 24 hour, Remainder of Sub-slab List - 72 hour	Resident Sub-slab	Air Toxics, Ltd.	03/21/2005	03/23/2005	03/24/2005	02A	503432
03/21/2005	032105 115WMaple B	Air	ENSR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/21/2005	03/23/2005	03/30/2005	01A	503449
03/21/2005	032105 130WHawthorne B	Air	ENSR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/21/2005	03/23/2005	03/30/2005	01A	503448
03/21/2005	032105 134WHawthorne E24	Air	TO14, TO15, ASTM-D 1946, O2, CO2, Methane	Resident Sub-slab	Air Toxics, Ltd.	03/21/2005	03/23/2005	03/30/2005	01A	503447
03/21/2005	032105 134WHawthorne B	Air	ESNR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/21/2005	03/23/2005	03/30/2005	02A	503447
03/21/2005	032105 134WHawthorne 1	Air	ENSR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/21/2005	03/23/2005	03/30/2005	03A	503447
03/22/2005	032205117W DateSS3	Air	ENSR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/22/2005	03/24/2005	03/31/2005	01A	503492
03/22/2005	032205117WDateSS1	Air	ENSR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/22/2005	03/24/2005	03/31/2005	02A	503492
03/22/2005	032205117WDateSS2	Air	ENSR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/22/2005	03/24/2005	03/31/2005	03A	503492
03/22/2005	032205117WDateSS2Dupe	Air	ENSR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/22/2005	03/24/2005	03/31/2005	04A	503492
03/22/2005	032205117WDateB	Air	ENSR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/22/2005	03/24/2005	03/31/2005	05A	503492
03/22/2005	032205117WDate1	Air	ENSR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/22/2005	03/24/2005	03/31/2005	06A	503492
03/23/2005	032305MP19Dup	Air	TO15, ENSR short list, TO14, ASTM D 1946	Vapor Migration	Air Toxics, Ltd.	03/23/2005	03/24/2005	03/31/2005	11A	503493
03/23/2005	032305MP20	Air	TO15, ENSR short list, TO14, ASTM D 1946	Vapor Migration	Air Toxics, Ltd.	03/23/2005	03/24/2005	03/31/2005	12A	503493
03/23/2005	032305MP21	Air	TO15, ENSR short list, TO14, ASTM D 1946	Vapor Migration	Air Toxics, Ltd.	03/23/2005	03/24/2005	03/31/2005	13A	503493
03/23/2005	032305MP22	Air	TO15, ENSR short list, TO14, ASTM D 1946	Vapor Migration	Air Toxics, Ltd.	03/23/2005	03/24/2005	03/31/2005	14A	503493
03/23/2005	032305MP23	Air	TO15, ENSR short list, TO14, ASTM D 1946	Vapor Migration	Air Toxics, Ltd.	03/23/2005	03/24/2005	03/31/2005	15A	503493
03/23/2005	032305VMP29M	Air	TO15, ENSR short list, TO14, ASTM D 1946	Vapor Migration	Air Toxics, Ltd.	03/23/2005	03/24/2005	03/31/2005	16A	503493
03/23/2005	032305VMP78VS	Air	TO15, ENSR short list, TO14, ASTM D 1946	Vapor Migration	Air Toxics, Ltd.	03/23/2005	03/24/2005	03/31/2005	17A	503493
03/23/2005	032305VMP78S	Air	TO15, ENSR short list, TO14, ASTM D 1946	Vapor Migration	Air Toxics, Ltd.	03/23/2005	03/24/2005	03/31/2005	18A	503493
03/23/2005	032305VMP78M	Air	TO15, ENSR short list, TO14, ASTM D 1946	Vapor Migration	Air Toxics, Ltd.	03/23/2005	03/24/2005	03/31/2005	19A	503493
03/23/2005	032305VMP78MDUP	Air	TO15, ENSR short list, TO14, ASTM D 1946	Vapor Migration	Air Toxics, Ltd.	03/23/2005	03/24/2005	03/31/2005	20A	503493
03/23/2005	032305VMP78D	Air	TO15, ENSR short list, TO14, ASTM D 1946	Vapor Migration	Air Toxics, Ltd.	03/23/2005	03/24/2005	03/31/2005	21A	503493
03/23/2005	032305VMP80VS	Air	TO15, ENSR short list, TO14, ASTM D 1946	Vapor Migration	Air Toxics, Ltd.	03/23/2005	03/24/2005	03/31/2005	01A	503493
03/23/2005	032305VMP80S	Air	TO15, ENSR short list, TO14, ASTM D 1946	Vapor Migration	Air Toxics, Ltd.	03/23/2005	03/24/2005	03/31/2005	02A	503493
03/23/2005	032305VMP80M	Air	TO15, ENSR short list, TO14, ASTM D 1946	Vapor Migration	Air Toxics, Ltd.	03/23/2005	03/24/2005	03/31/2005	03A	503493
03/23/2005	032305VMP80D	Air	TO15, ENSR short list, TO14, ASTM D 1946	Vapor Migration	Air Toxics, Ltd.	03/23/2005	03/24/2005	03/31/2005	04A	503493
03/23/2005	032305MP17	Air	TO15, ENSR short list, TO14, ASTM D 1946	Vapor Migration	Air Toxics, Ltd.	03/23/2005	03/24/2005	03/31/2005	05A	503493
03/23/2005	032305VMP26S	Air	TO15, ENSR short list, TO14, ASTM D 1946	Vapor Migration	Air Toxics, Ltd.	03/23/2005	03/24/2005	03/31/2005	06A	503493
03/23/2005	032305VMP26M	Air	TO15, ENSR short list, TO14, ASTM D 1946	Vapor Migration	Air Toxics, Ltd.	03/23/2005	03/24/2005	03/31/2005	07A	503493
03/23/2005	032305VMP26D	Air	TO15, ENSR short list, TO14, ASTM D 1946	Vapor Migration	Air Toxics, Ltd.	03/23/2005	03/24/2005	03/31/2005	08A	503493
03/23/2005	032305MP18	Air	TO15, ENSR short list, TO14, ASTM D 1946	Vapor Migration	Air Toxics, Ltd.	03/23/2005	03/24/2005	03/31/2005	09A	503493
03/23/2005	032305MP19	Air	TO15, ENSR short list, TO14, ASTM D 1946	Vapor Migration	Air Toxics, Ltd.	03/23/2005	03/24/2005	03/31/2005	10A	503493
03/23/2005	032305128WCherrySS1	Air	ESNR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/23/2005	03/25/2005	04/01/2005	01A	503516
03/23/2005	032305128WCherrySS2	Air	ESNR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/23/2005	03/25/2005	04/01/2005	02A	503516
03/23/2005	032305128WCherrySS3	Air	ESNR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/23/2005	03/25/2005	04/01/2005	03A	503516
03/23/2005	032305128WCherryB	Air	ESNR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/23/2005	03/25/2005	04/01/2005	04A	503516
03/23/2005	032305128WCherry1	Air	ESNR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/23/2005	03/25/2005	04/01/2005	05A	503516
03/23/2005	032305128WCherryExt24	Air	TO14, TO15, ASTM-D 1946, O2, CO2, Methane	Resident Sub-slab	Air Toxics, Ltd.	03/23/2005	03/25/2005	03/31/2005	06A	503516
03/23/2005	032305115EHawthorne1	Air	ESNR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/23/2005	03/25/2005	04/01/2005	01A	503502
03/23/2005	032305115EHawthorneB	Air	ESNR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/23/2005	03/25/2005	04/01/2005	02A	503502
03/23/2005	032305115EHawthorneSS1	Air	ESNR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/23/2005	03/25/2005	04/01/2005	03A	503502
03/23/2005	032305115EHawthorneSS2	Air	ESNR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/23/2005	03/25/2005	04/01/2005	04A	503502
03/23/2005	032305115EHawthorneSS2Dup	Air	ESNR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/23/2005	03/25/2005	04/01/2005	05A	503502
03/23/2005	032305115EHawthorneSS3	Air	ESNR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/23/2005	03/25/2005	04/01/2005	06A	503502
03/23/2005	032305HCC KC	Air	T015, ASTM D-1946, A.T. @Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/23/2005	03/25/2005	04/07/2005	01A	503515
03/23/2005	032305HCC Kitchen	Air	T015, ASTM D-1946, A.T. @Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/23/2005	03/25/2005	04/07/2005	02A	503515
03/23/2005	032305HCC BR	Air	T015, ASTM D-1946, A.T. @Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/23/2005	03/25/2005	04/07/2005	03A	503515

APPENDIX E
Soil Vapor and Sub-Slab Tracking Table

Hartford, Illinois

Sample Date	Sample ID	Sample Matrix	Analysis Type	Sampling Purpose	Laboratory	Date			Laboratory Sample ID	Laboratory Report Number
						Sampled	Received By Lab	Reported By Lab		
03/23/2005	032305HCC BRDup	Air	T015, ASTM D-1946, A.T. @Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/23/2005	03/25/2005	04/07/2005	04A	503515
03/23/2005	032305HCC EH	Air	T015, ASTM D-1946, A.T. @Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/23/2005	03/25/2005	04/07/2005	05A	503515
03/23/2005	032305HCC Café	Air	T015, ASTM D-1946, A.T. @Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/23/2005	03/25/2005	04/07/2005	06A	503515
03/23/2005	032305HCC UWS	Air	T015, ASTM D-1946, A.T. @Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/23/2005	03/25/2005	04/07/2005	07A	503515
03/23/2005	032305HCC Ext 24	Air	T015, ASTM D-1946, A.T. @Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/23/2005	03/25/2005	04/07/2005	08A	503515
03/23/2005	032305HCC Café C	Air	T015, ASTM D-1946, A.T. @Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/23/2005	03/25/2005	04/07/2005	09A	503515
03/23/2005	032305HCC MR	Air	T015, ASTM D-1946, A.T. @Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/23/2005	03/25/2005	04/07/2005	10A	503515
03/29/2005	032905107WForestSS1	Air	ESNR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/29/2005	03/31/2005	04/07/2005	01A	503609
03/29/2005	032905107WForestSS3	Air	ESNR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/29/2005	03/31/2005	04/07/2005	03A	503609
03/29/2005	032905107WForestSS2	Air	ESNR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/29/2005	03/31/2005	04/07/2005	02A	503609
03/29/2005	032905107WForestB	Air	ESNR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/29/2005	03/31/2005	04/07/2005	04A	503609
03/29/2005	032905107WForest1	Air	ESNR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/29/2005	03/31/2005	04/07/2005	05A	503609
03/29/2005	032905107WForestExt24	Air	ESNR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/29/2005	03/31/2005	04/07/2005	06A	503609
03/29/2005	032905108EDateSS1	Air	ESNR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/29/2005	03/31/2005	04/07/2005	07A	503609
03/29/2005	032905108EDateSS1Dup	Air	ESNR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/29/2005	03/31/2005	04/07/2005	08A	503609
03/29/2005	032905108EDateB	Air	ESNR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/29/2005	03/31/2005	04/07/2005	11A	503609
03/29/2005	032905108EDateSS2	Air	ESNR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/29/2005	03/31/2005	04/07/2005	14A	503609
03/29/2005	032905108EDateSS3	Air	ESNR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/29/2005	03/31/2005	04/07/2005	10A	503609
03/29/2005	032905109EDateSS1	Air	ESNR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/29/2005	03/31/2005	04/07/2005	07A	503609
03/29/2005	032905109EDateSS2	Air	ESNR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/29/2005	03/31/2005	04/07/2005	11A	503609
03/29/2005	032905109EDateB	Air	ESNR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/29/2005	03/31/2005	04/07/2005	15A	503609
03/29/2005	032905109EDate1	Air	ESNR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/29/2005	03/31/2005	04/07/2005	12A	503609
03/29/2005	032905109EDateExt24	Air	ESNR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/29/2005	03/31/2005	04/07/2005	17A	503609
03/29/2005	032905119EDateSS3	Air	ESNR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/29/2005	03/31/2005	04/07/2005	20A	503609
03/29/2005	032905119EDateSS2	Air	ESNR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/29/2005	03/31/2005	04/07/2005	19A	503609
03/29/2005	032905119EDateB	Air	ESNR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/29/2005	03/31/2005	04/07/2005	21A	503609
03/29/2005	032905119EDateSS1	Air	ESNR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/29/2005	03/31/2005	04/07/2005	18A	503609
03/29/2005	032905119EDate1	Air	ESNR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/29/2005	03/31/2005	04/07/2005	22A	503609
03/29/2005	032905117EDateSS1	Air	ESNR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/29/2005	03/31/2005	04/07/2005	23A	503609
03/29/2005	032905117EDateSS2	Air	ESNR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/29/2005	03/31/2005	04/07/2005	24A	503609
03/29/2005	032905117EDateB	Air	ESNR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/29/2005	03/31/2005	04/07/2005	26A	503609
03/29/2005	032905117EDateSS3	Air	ESNR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/29/2005	03/31/2005	04/07/2005	25A	503609
03/29/2005	032905117EDate1	Air	ESNR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/29/2005	03/31/2005	04/07/2005	27A	503609
03/31/2005	033105-HCC-VMPCC 1	Air	T015, ASTM D-1946, A.T. @Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/31/2005	04/01/2005	04/07/2005	01A	504017
03/31/2005	033105-HCC-VMPCC 2	Air	T015, ASTM D-1946, A.T. @Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/31/2005	04/01/2005	04/07/2005	02A	504017
03/31/2005	033105-HCC-VMPCC 3	Air	T015, ASTM D-1946, A.T. @Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/31/2005	04/01/2005	04/07/2005	03A	504017
03/31/2005	033105-HCC-VMPCC 4	Air	T015, ASTM D-1946, A.T. @Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/31/2005	04/01/2005	04/07/2005	04A	504017
03/31/2005	033105-HCC-VMPCC 5	Air	T015, ASTM D-1946, A.T. @Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/31/2005	04/01/2005	04/07/2005	05A	504017
03/31/2005	033105-HCC-VMPCC 6	Air	T015, ASTM D-1946, A.T. @Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/31/2005	04/01/2005	04/07/2005	06A	504017
03/31/2005	033105-HCC-VMPCC 7	Air	T015, ASTM D-1946, A.T. @Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/31/2005	04/01/2005	04/07/2005	07A	504017
03/31/2005	033105-HCC-VMPCC 7D	Air	T015, ASTM D-1946, A.T. @Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/31/2005	04/01/2005	04/07/2005	08A	504017
03/31/2005	033105-HCC-VMPCC 8	Air	T015, ASTM D-1946, A.T. @Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/31/2005	04/01/2005	04/07/2005	09A	504017
03/31/2005	033105-HCC-VMPCC 8 Dup	Air	T015, ASTM D-1946, A.T. @Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/31/2005	04/01/2005	04/07/2005	10A	504017
03/31/2005	033105-HCC-VMPCC 9	Air	T015, ASTM D-1946, A.T. @Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/31/2005	04/01/2005	04/07/2005	11A	504017
03/31/2005	033105-HCC-VMPCC 10	Air	T015, ASTM D-1946, A.T. @Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/31/2005	04/01/2005	04/07/2005	12A	504017
03/31/2005	033105-HCC-VMPCC 11	Air	T015, ASTM D-1946, A.T. @Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/31/2005	04/01/2005	04/07/2005	13A	504017
03/31/2005	033105-HCC-VMPCC 12	Air	T015, ASTM D-1946, A.T. @Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/31/2005	04/01/2005	04/07/2005	14A	504017
03/31/2005	033105-HCC-Ext 30	Air	T015, ASTM D-1946, A.T. @Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/31/2005	04/01/2005	04/07/2005	15A	504017
03/31/2005	033105 HCC Café	Air	T015, ASTM D-1946, A.T. @Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/31/2005	04/04/2005	04/11/2005	01A	504048
03/31/2005	033105 HCC Café Dup	Air	T015, ASTM D-1946, A.T. @Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/31/2005	04/04/2005	04/11/2005	02A	504048
03/31/2005	033105 HCC Café Closet	Air	T015, ASTM D-1946, A.T. @Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/31/2005	04/04/2005	04/11/2005	03A	504048
03/31/2005	033105 HCC Kitchen Closet	Air	T015, ASTM D-1946, A.T. @Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/31/2005	04/04/2005	04/11/2005	04A	504048

APPENDIX E
Soil Vapor and Sub-Slab Tracking Table

Hartford, Illinois

Sample Date	Sample ID	Sample Matrix	Analysis Type	Sampling Purpose	Laboratory	Date			Laboratory Sample ID	Laboratory Report Number
						Sampled	Received By Lab	Reported By Lab		
03/31/2005	033105 HCC Kitchen Closet Dup	Air	T015, ASTM D-1946, A.T. @Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/31/2005	04/04/2005	04/11/2005	04AA	504048
03/31/2005	033105 HCC Men's Rm	Air	T015, ASTM D-1946, A.T. @Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/31/2005	04/04/2005	04/11/2005	05A	504048
03/31/2005	033105 HCC EH	Air	T015, ASTM D-1946, A.T. @Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/31/2005	04/04/2005	04/11/2005	06A	504048
03/31/2005	033105 HCC BR	Air	T015, ASTM D-1946, A.T. @Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/31/2005	04/04/2005	04/11/2005	07A	504048
03/31/2005	033105 HCC UWS	Air	T015, ASTM D-1946, A.T. @Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/31/2005	04/04/2005	04/11/2005	08A	504048
03/31/2005	033105 HCC Ext 24	Air	T015, ASTM D-1946, A.T. @Meth 82	Community Center Weekly Sampling	Air Toxics, Ltd.	03/31/2005	04/04/2005	04/11/2005	09A	504048
03/31/2005	033105-200 N Delmar SS1	Air	ESNR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/31/2005	04/04/2005	04/12/2005	01A	504044
03/31/2005	033105-200 N Delmar SS2	Air	ESNR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/31/2005	04/04/2005	04/12/2005	02A	504044
03/31/2005	033105-200 N Delmar SS3	Air	ESNR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/31/2005	04/04/2005	04/12/2005	03A	504044
03/31/2005	033105-200 N Delmar B	Air	ESNR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/31/2005	04/04/2005	04/12/2005	04A	504044
03/31/2005	033105-200 N Delmar B Dup	Air	ESNR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/31/2005	04/04/2005	04/12/2005	05A	504044
03/31/2005	033105-200 N Delmar 1	Air	ESNR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	03/31/2005	04/04/2005	04/12/2005	06A	504044
04/04/2005	040405118WCherryB	Air	ESNR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	04/04/2005	04/06/2005	04/14/2005	01A	504101
04/04/2005	040405118WCherry1	Air	ESNR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	04/04/2005	04/06/2005	04/14/2005	02A	504101
04/04/2005	040405118WCherry1Dup	Air	ESNR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	04/04/2005	04/06/2005	04/14/2005	03A	504101
04/04/2005	040405118WCherryExt24	Air	T015, ASTM D-1946, A.T. @Meth 82	Resident Sub-slab	Air Toxics, Ltd.	04/04/2005	04/06/2005	04/14/2005	04A	504101
04/04/2005	040405118WCherrySS1	Air	ESNR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	04/04/2005	04/06/2005	04/14/2005	05A	504101
04/04/2005	040405118WCherrySS2	Air	ESNR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	04/04/2005	04/06/2005	04/14/2005	06A	504101
04/04/2005	040405118WCherrySS3	Air	ESNR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	04/04/2005	04/06/2005	04/14/2005	07A	504101
04/05/2005	040505122WWatkinsExt24	Air	T015, T014, CO2, O2, ASTM-D1946	Resident Sub-slab	Air Toxics, Ltd.	04/05/2005				
04/05/2005	040505122WWatkins1	Air	ENSR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	04/05/2005				
04/05/2005	040505122WWatkinsB	Air	ENSR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	04/05/2005				
04/05/2005	040505122WWatkinsSS1	Air	ENSR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	04/05/2005				
04/05/2005	040505122WWatkinsSS2	Air	ENSR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	04/05/2005				
04/05/2005	040505122WWatkinsSS3	Air	ENSR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	04/05/2005				
04/06/2005	040605130EMapleSS1	Air	ENSR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	04/06/2005				
04/06/2005	040605130EMapleSS2	Air	ENSR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	04/06/2005				
04/06/2005	040605130EMapleSS3	Air	DNA	Resident Sub-slab	Air Toxics, Ltd.	04/06/2005				
04/06/2005	040605130EMapleB	Air	ENSR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	04/06/2005				
04/06/2005	040605130EMaple1	Air	ENSR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	04/06/2005				
04/06/2005	040605HCCExt24	Air	T015, ASTM D-1946, A.T.@Meth82	Community Center Weekly Sampling	Air Toxics, Ltd.	04/06/2005	04/08/2005	04/21/2005	01A	504167
04/06/2005	040605HCCUWS	Air	T015, ASTM D-1946, A.T.@Meth82	Community Center Weekly Sampling	Air Toxics, Ltd.	04/06/2005	04/08/2005	04/21/2005	02A	504167
04/06/2005	040605HCCCafe	Air	T015, ASTM D-1946, A.T.@Meth82	Community Center Weekly Sampling	Air Toxics, Ltd.	04/06/2005	04/08/2005	04/21/2005	03A	504167
04/06/2005	040605HCCMR	Air	T015, ASTM D-1946, A.T.@Meth82	Community Center Weekly Sampling	Air Toxics, Ltd.	04/06/2005	04/08/2005	04/21/2005	04A	504167
04/06/2005	040605HCCMRDup	Air	T015, ASTM D-1946, A.T.@Meth82	Community Center Weekly Sampling	Air Toxics, Ltd.	04/06/2005	04/08/2005	04/21/2005	05A	504167
04/06/2005	040605HCCKC	Air	T015, ASTM D-1946, A.T.@Meth82	Community Center Weekly Sampling	Air Toxics, Ltd.	04/06/2005	04/08/2005	04/21/2005	06A	504167
04/06/2005	040605HCCK	Air	T015, ASTM D-1946, A.T.@Meth82	Community Center Weekly Sampling	Air Toxics, Ltd.	04/06/2005	04/08/2005	04/21/2005	07A	504167
04/06/2005	040605HCCCafeCloset	Air	T015, ASTM D-1946, A.T.@Meth82	Community Center Weekly Sampling	Air Toxics, Ltd.	04/06/2005	04/08/2005	04/21/2005	08A	504167
04/06/2005	040605HCCEH	Air	T015, ASTM D-1946, A.T.@Meth82	Community Center Weekly Sampling	Air Toxics, Ltd.	04/06/2005	04/08/2005	04/21/2005	09A	504167
04/06/2005	040605HCCBR	Air	T015, ASTM D-1946, A.T.@Meth82	Community Center Weekly Sampling	Air Toxics, Ltd.	04/06/2005	04/08/2005	04/21/2005	10A	504167
04/06/2005	040605HCCCC4	Air	ENSR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	04/06/2005	04/08/2005	04/21/2005	01A	504137
04/06/2005	040605HCCCC10	Air	ENSR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	04/06/2005	04/08/2005	04/21/2005	02A	504137
04/06/2005	040605HCCCC1	Air	ENSR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	04/06/2005	04/08/2005	04/21/2005	03A	504137
04/06/2005	040605HCCCC11	Air	ENSR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	04/06/2005	04/08/2005	04/21/2005	04A	504137
04/06/2005	040605HCCCC9	Air	ENSR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	04/06/2005	04/08/2005	04/21/2005	05A	504137
04/06/2005	040605HCCCC3	Air	ENSR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	04/06/2005	04/08/2005	04/21/2005	06A	504137
04/06/2005	040605HCCCC2	Air	ENSR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	04/06/2005	04/08/2005	04/21/2005	07A	504137
04/06/2005	040605HCCCC12	Air	ENSR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	04/06/2005	04/08/2005	04/21/2005	08A	504137
04/06/2005	040605HCCCC6	Air	ENSR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	04/06/2005	04/08/2005	04/21/2005	09A	504137
04/06/2005	040605HCCCC6Dup	Air	ENSR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	04/06/2005	04/08/2005	04/21/2005	10A	504137
04/06/2005	040605HCCExt30min	Air	ENSR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	04/06/2005	04/08/2005	04/21/2005	11A	504137

APPENDIX E
Soil Vapor and Sub-Slab Tracking Table

Hartford, Illinois

Sample Date	Sample ID	Sample Matrix	Analysis Type	Sampling Purpose	Laboratory	Date			Laboratory Sample ID	Laboratory Report Number
						Sampled	Received By Lab	Reported By Lab		
04/06/2005	040605HCCCC8	Air	ENSR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	04/06/2005	04/08/2005	04/21/2005	12A	504137
04/06/2005	040605HCCCC7D	Air	ENSR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	04/06/2005	04/08/2005	04/21/2005	13A	504137
04/06/2005	040605HCCCC7	Air	ENSR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	04/06/2005	04/08/2005	04/21/2005	14A	504137
04/06/2005	040605HCCCC5	Air	ENSR Subslab List	Resident Sub-slab	Air Toxics, Ltd.	04/06/2005	04/08/2005	04/21/2005	15A	504137
04/11/2005	041105HCCCC2	Air	ENSR Subslab List	Community Center Weekly Sampling	Air Toxics, Ltd.	04/11/2005	04/12/2005	04/25/2005	01A	504233
04/11/2005	041105HCCCC3	Air	ENSR Subslab List	Community Center Weekly Sampling	Air Toxics, Ltd.	04/11/2005	04/12/2005	04/25/2005	02A	504233
04/11/2005	041105HCCCC7D	Air	ENSR Subslab List	Community Center Weekly Sampling	Air Toxics, Ltd.	04/11/2005	04/12/2005	04/25/2005	03A	504233
04/11/2005	041105HCCCC7	Air	ENSR Subslab List	Community Center Weekly Sampling	Air Toxics, Ltd.	04/11/2005	04/12/2005	04/25/2005	04A	504233
04/11/2005	041105HCCCC8	Air	ENSR Subslab List	Community Center Weekly Sampling	Air Toxics, Ltd.	04/11/2005	04/12/2005	04/25/2005	05A	504233
04/11/2005	041105HCCCC9	Air	ENSR Subslab List	Community Center Weekly Sampling	Air Toxics, Ltd.	04/11/2005	04/12/2005	04/25/2005	06A	504233
04/11/2005	041105HCCCC5	Air	ENSR Subslab List	Community Center Weekly Sampling	Air Toxics, Ltd.	04/11/2005	04/12/2005	04/25/2005	07A	504233
04/11/2005	041105HCCCC10	Air	ENSR Subslab List	Community Center Weekly Sampling	Air Toxics, Ltd.	04/11/2005	04/12/2005	04/25/2005	08A	504233
04/11/2005	041105HCCCC4	Air	ENSR Subslab List	Community Center Weekly Sampling	Air Toxics, Ltd.	04/11/2005	04/12/2005	04/25/2005	09A	504233
04/11/2005	041105HCCCC6	Air	ENSR Subslab List	Community Center Weekly Sampling	Air Toxics, Ltd.	04/11/2005	04/12/2005	04/25/2005	10A	504233
04/11/2005	041105HCCCC12	Air	ENSR Subslab List	Community Center Weekly Sampling	Air Toxics, Ltd.	04/11/2005	04/12/2005	04/25/2005	11A	504233
04/11/2005	041105HCCCC11	Air	ENSR Subslab List	Community Center Weekly Sampling	Air Toxics, Ltd.	04/11/2005	04/12/2005	04/25/2005	12A	504233
04/11/2005	041105HCCCC1	Air	ENSR Subslab List	Community Center Weekly Sampling	Air Toxics, Ltd.	04/11/2005	04/12/2005	04/25/2005	13A	504233
04/11/2005	041105HCCCC1Dup	Air	ENSR Subslab List	Community Center Weekly Sampling	Air Toxics, Ltd.	04/11/2005	04/12/2005	04/25/2005	14A	504233
04/11/2005	041105HCCExt30	Air	ENSR Subslab List	Community Center Weekly Sampling	Air Toxics, Ltd.	04/11/2005	04/12/2005	04/25/2005	15A	504233

APPENDIX F

PASSIVE SAMPLER TRACKING TABLE

Appendix F
PASSIVE SAMPLER TRACKING TABLE

Hartford Working Group
Hartford, Illinois

Sample Date	Sample ID	Sample Matrix	Analysis Type	Sampling Purpose	Laboratory	Date				Laboratory Report / Sample ID	Sample Data Group Number
						Sampled	Received By Lab	Analyzed By Lab	Reported By Lab		
01/07/2005	GP-1	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/07/2005	01/22/2005	01/25/2005	01/27/2005	465107	465107
01/07/2005	GP-2	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/07/2005	01/22/2005	01/26/2005	01/27/2005	465108	465108
01/07/2005	GP-3	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/07/2005	01/22/2005	01/26/2005	01/27/2005	465109	465109
01/07/2005	GP-4	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/07/2005	01/22/2005	01/26/2005	01/27/2005	465110	465110
01/07/2005	GP-7	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/07/2005	01/22/2005	01/26/2005	01/27/2005	465111	465111
01/07/2005	GP-8	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/07/2005	01/22/2005	01/26/2005	01/27/2005	465112	465112
01/07/2005	GP-9	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/07/2005	01/22/2005	01/25/2005	01/27/2005	465113	465113
01/07/2005	GP-10	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/07/2005	01/22/2005	01/25/2005	01/27/2005	465114	465114
01/07/2005	GP-11	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/07/2005	01/22/2005	01/25/2005	01/27/2005	465115	465115
01/07/2005	GP-12	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/07/2005	01/22/2005	01/25/2005	01/27/2005	465116	465116
01/07/2005	GP-13	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/07/2005	01/22/2005	01/26/2005	01/27/2005	465117	465117
01/13/2005	GP-14	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/13/2005	01/22/2005	01/25/2005	01/27/2005	465118	465118
01/13/2005	GP-15	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/13/2005	01/22/2005	01/25/2005	01/27/2005	465119	465119
01/13/2005	GP-16	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/13/2005	01/22/2005	01/26/2005	01/27/2005	465120	465120
01/13/2005	GP-17	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/13/2005	01/22/2005	01/26/2005	01/27/2005	465121	465121
01/13/2005	GP-18	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/13/2005	01/22/2005	01/25/2005	01/27/2005	465122	465122
01/13/2005	GP-19	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/13/2005	01/22/2005	01/26/2005	01/27/2005	465123	465123
01/13/2005	GP-20	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/13/2005	01/22/2005	01/26/2005	01/27/2005	465124	465124
01/13/2005	GP-21	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/13/2005	01/22/2005	01/25/2005	01/27/2005	465125	465125
01/13/2005	GP-23	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/13/2005	01/22/2005	01/25/2005	01/27/2005	465126	465126
01/13/2005	GP-24	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/13/2005	01/22/2005	01/26/2005	01/27/2005	465127	465127
01/13/2005	GP-25	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/13/2005	01/22/2005	01/26/2005	01/27/2005	465128	465128
01/13/2005	GP-26	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/13/2005	01/22/2005	01/26/2005	01/27/2005	465129	465129
01/14/2005	GP-27	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/14/2005	01/22/2005	01/26/2005	01/27/2005	465130	465130
01/14/2005	GP-28	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/14/2005	01/22/2005	01/25/2005	01/27/2005	465131	465131
02/18/2005	HA-2	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/18/2005	02/21/2005	02/22/2005	02/24/2005	466959	466959
02/18/2005	HA-4	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/18/2005	02/21/2005	02/22/2005	02/24/2005	466960	466960
02/18/2005	HA-6	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/18/2005	02/21/2005	02/22/2005	02/24/2005	466961	466961
02/18/2005	HA-13	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/18/2005	02/21/2005	02/23/2005	02/24/2005	466962	466962
02/18/2005	HA-10	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/18/2005	02/21/2005	02/23/2005	02/24/2005	466963	466963
02/18/2005	HA-8	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/18/2005	02/21/2005	02/22/2005	02/24/2005	466964	466964
02/18/2005	HA-16	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/18/2005	02/21/2005	02/23/2005	02/24/2005	466965	466965
02/18/2005	HA-19	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/18/2005	02/21/2005	02/22/2005	02/24/2005	466966	466966
02/18/2005	HA-37	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/18/2005	02/21/2005	02/23/2005	02/24/2005	466967	466967
02/18/2005	HA-31	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/18/2005	02/21/2005	02/23/2005	02/24/2005	466968	466968
02/18/2005	HA-29	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/18/2005	02/21/2005	02/23/2005	02/24/2005	466969	466969
02/18/2005	HA-27	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/18/2005	02/21/2005	02/22/2005	02/24/2005	466970	466970
02/18/2005	HA-24	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/18/2005	02/21/2005	02/23/2005	02/24/2005	466971	466971
02/18/2005	HA-34	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/18/2005	02/21/2005	02/23/2005	02/24/2005	466972	466972

Appendix F
PASSIVE SAMPLER TRACKING TABLE

Hartford Working Group
Hartford, Illinois

Sample Date	Sample ID	Sample Matrix	Analysis Type	Sampling Purpose	Laboratory	Date				Laboratory Report / Sample ID	Sample Data Group Number
						Sampled	Received By Lab	Analyzed By Lab	Reported By Lab		
02/21/2005	HA-1	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	BEACON ENVIRONMENTAL SERVICES INC.	02/21/2005	02/25/2005	03/01/2005	03/13/2005	5030106	5030106
02/21/2005	HA-2	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	BEACON ENVIRONMENTAL SERVICES INC.	02/21/2005	02/25/2005	03/01/2005	03/13/2005	5030107	5030107
02/21/2005	HA-3	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	BEACON ENVIRONMENTAL SERVICES INC.	02/21/2005	02/25/2005	03/01/2005	03/13/2005	5030108	5030108
02/21/2005	HA-5	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	BEACON ENVIRONMENTAL SERVICES INC.	02/21/2005	02/25/2005	03/01/2005	03/13/2005	5030109	5030109
02/21/2005	HA-6	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	BEACON ENVIRONMENTAL SERVICES INC.	02/21/2005	02/25/2005	03/01/2005	03/13/2005	5030110	5030110
02/21/2005	HA-7	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	BEACON ENVIRONMENTAL SERVICES INC.	02/21/2005	02/25/2005	03/01/2005	03/13/2005	5030111	5030111
02/21/2005	HA-8	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	BEACON ENVIRONMENTAL SERVICES INC.	02/21/2005	02/25/2005	03/01/2005	03/13/2005	5030112	5030112
02/21/2005	HA-10	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	BEACON ENVIRONMENTAL SERVICES INC.	02/21/2005	02/25/2005	03/01/2005	03/13/2005	5030113	5030113
02/21/2005	HA-13	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	BEACON ENVIRONMENTAL SERVICES INC.	02/21/2005	02/25/2005	03/01/2005	03/13/2005	5030114	5030114
02/21/2005	HA-13D	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	BEACON ENVIRONMENTAL SERVICES INC.	02/21/2005	02/25/2005	03/02/2005	03/13/2005	5030205	5030205
02/21/2005	HA-15	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	BEACON ENVIRONMENTAL SERVICES INC.	02/21/2005	02/25/2005	03/01/2005	03/13/2005	5030115	5030115
02/21/2005	HA-16	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	BEACON ENVIRONMENTAL SERVICES INC.	02/21/2005	02/25/2005	03/01/2005	03/13/2005	5030116	5030116
02/21/2005	HA-19	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	BEACON ENVIRONMENTAL SERVICES INC.	02/21/2005	02/25/2005	03/01/2005	03/13/2005	5030117	5030117
02/21/2005	HA-24	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	BEACON ENVIRONMENTAL SERVICES INC.	02/21/2005	02/25/2005	03/01/2005	03/13/2005	5030118	5030118
02/21/2005	HA-27	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	BEACON ENVIRONMENTAL SERVICES INC.	02/21/2005	02/25/2005	03/01/2005	03/13/2005	5030119	5030119
02/21/2005	HA-29	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	BEACON ENVIRONMENTAL SERVICES INC.	02/21/2005	02/25/2005	03/01/2005	03/13/2005	5030120	5030120
02/21/2005	HA-31	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	BEACON ENVIRONMENTAL SERVICES INC.	02/21/2005	02/25/2005	03/01/2005	03/13/2005	5030121	5030121
02/21/2005	HA-31D	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	BEACON ENVIRONMENTAL SERVICES INC.	02/21/2005	02/25/2005	03/02/2005	03/13/2005	5030206	5030206
02/21/2005	HA-34	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	BEACON ENVIRONMENTAL SERVICES INC.	02/21/2005	02/25/2005	03/01/2005	03/13/2005	5030122	5030122
02/21/2005	HA-36	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	BEACON ENVIRONMENTAL SERVICES INC.	02/21/2005	02/25/2005	03/02/2005	03/13/2005	5030123	5030123
02/21/2005	HA-37	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	BEACON ENVIRONMENTAL SERVICES INC.	02/21/2005	02/25/2005	03/02/2005	03/13/2005	5030124	5030124
02/21/2005	TRIP-3	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	BEACON ENVIRONMENTAL SERVICES INC.	02/21/2005	02/25/2005	03/01/2005	03/13/2005	5030105	5030105
02/21/2005	TRIP-4	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	BEACON ENVIRONMENTAL SERVICES INC.	02/21/2005	02/25/2005	03/02/2005	03/13/2005	5030125	5030125
01/10/2005	GP-1	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	BEACON ENVIRONMENTAL SERVICES INC.	01/10/2005	01/13/2005	01/14/2005	02/03/2005	5011405	5011405
01/10/2005	GP-2	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	BEACON ENVIRONMENTAL SERVICES INC.	01/10/2005	01/13/2005	01/14/2005	02/03/2005	5011406	5011406
01/10/2005	GP-3	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	BEACON ENVIRONMENTAL SERVICES INC.	01/10/2005	01/13/2005	01/14/2005	02/03/2005	5011407	5011407

Appendix F
PASSIVE SAMPLER TRACKING TABLE

Hartford Working Group
Hartford, Illinois

Sample Date	Sample ID	Sample Matrix	Analysis Type	Sampling Purpose	Laboratory	Date				Laboratory Report / Sample ID	Sample Data Group Number
						Sampled	Received By Lab	Analyzed By Lab	Reported By Lab		
01/10/2005	GP-4	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	BEACON ENVIRONMENTAL SERVICES INC.	01/10/2005	01/13/2005	01/14/2005	02/03/2005	5011408	5011408
01/10/2005	GP-7	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	BEACON ENVIRONMENTAL SERVICES INC.	01/10/2005	01/13/2005	01/14/2005	02/03/2005	5011409	5011409
01/10/2005	GP-8	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	BEACON ENVIRONMENTAL SERVICES INC.	01/10/2005	01/13/2005	01/13/2005	02/03/2005	5011410	5011410
01/10/2005	GP-9	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	BEACON ENVIRONMENTAL SERVICES INC.	01/10/2005	01/13/2005	01/14/2005	02/03/2005	5011411	5011411
01/10/2005	GP-10	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	BEACON ENVIRONMENTAL SERVICES INC.	01/10/2005	01/13/2005	01/14/2005	02/03/2005	5011412	5011412
01/10/2005	GP-11	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	BEACON ENVIRONMENTAL SERVICES INC.	01/10/2005	01/13/2005	01/14/2005	02/03/2005	5011413	5011413
01/10/2005	GP-12	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	BEACON ENVIRONMENTAL SERVICES INC.	01/10/2005	01/13/2005	01/14/2005	02/03/2005	5011414	5011414
01/10/2005	GP-13	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	BEACON ENVIRONMENTAL SERVICES INC.	01/10/2005	01/13/2005	01/14/2005	02/03/2005	5011415	5011415
01/17/2005	GP-14	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	BEACON ENVIRONMENTAL SERVICES INC.	01/17/2005	01/13/2005	01/25/2005	02/03/2005	5012508	5012508
01/17/2005	GP-15	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	BEACON ENVIRONMENTAL SERVICES INC.	01/17/2005	01/21/2005	01/25/2005	02/03/2005	5012509	5012509
01/17/2005	GP-16	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	BEACON ENVIRONMENTAL SERVICES INC.	01/17/2005	01/21/2005	01/25/2005	02/03/2005	5012510	5012510
01/17/2005	GP-17	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	BEACON ENVIRONMENTAL SERVICES INC.	01/17/2005	01/21/2005	01/25/2005	02/03/2005	5012511	5012511
01/17/2005	GP-18	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	BEACON ENVIRONMENTAL SERVICES INC.	01/17/2005	01/21/2005	01/25/2005	02/03/2005	5012512	5012512
01/17/2005	GP-19	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	BEACON ENVIRONMENTAL SERVICES INC.	01/17/2005	01/21/2005	01/25/2005	02/03/2005	5012513	5012513
01/17/2005	GP-20	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	BEACON ENVIRONMENTAL SERVICES INC.	01/17/2005	01/21/2005	01/25/2005	02/03/2005	5012514	5012514
01/17/2005	GP-21	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	BEACON ENVIRONMENTAL SERVICES INC.	01/17/2005	01/21/2005	01/25/2005	02/03/2005	5012515	5012515
01/17/2005	GP-23	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	BEACON ENVIRONMENTAL SERVICES INC.	01/17/2005	01/21/2005	01/25/2005	02/03/2005	5012516	5012516
01/17/2005	GP-24	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	BEACON ENVIRONMENTAL SERVICES INC.	01/17/2005	01/21/2005	01/25/2005	02/03/2005	5012524	5012524
01/21/2005	GP-27	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	BEACON ENVIRONMENTAL SERVICES INC.	01/21/2005	01/24/2005	01/25/2005	02/03/2005	5012518	5012518
01/21/2005	GP-28	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	BEACON ENVIRONMENTAL SERVICES INC.	01/21/2005	01/24/2005	01/25/2005	02/03/2005	5012519	5012519
01/14/2005	Trip-1	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	BEACON ENVIRONMENTAL SERVICES INC.	01/14/2005	01/14/2005	01/14/2005	02/03/2005	5011404	5011404
01/21/2005	Trip-2	Soil Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	BEACON ENVIRONMENTAL SERVICES INC.	01/21/2005	01/21/2005	01/21/2005	02/03/2005	5012521	5012521

APPENDIX G

PASSIVE SEWER SAMPLER TRACKING TABLE

Appendix G
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Hartford Working Group
Hartford, Illinois

Sample Date	Sample ID	Sample Matrix	Analysis Type	Sampling Purpose	Laboratory	Date				Laboratory Report / Sample ID	Sample Data Group Number
						Sampled	Received By Lab	Analyzed By Lab	Reported By Lab		
12/30/2004	A8.5A-6'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	12/30/2004	12/31/2004	01/03/2005	01/21/2005	453512	453512
12/30/2004	A8.5B-5.5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	12/30/2004	12/31/2004	01/03/2005	01/21/2005	453513	453513
12/30/2004	A8.5C-5.5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	12/30/2004	12/31/2004	01/03/2005	01/21/2005	450902	450902
12/30/2004	A9-6'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	12/30/2004	12/31/2004	01/03/2005	01/21/2005	450901	450901
01/13/2005	A8.5A-6'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/13/2005	01/14/2005	01/15/2005	01/21/2005	465102	465102
01/13/2005	A8.5B-5.5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/13/2005	01/14/2005	01/15/2005	01/21/2005	465103	465103
01/13/2005	A8.5C-5.5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/13/2005	01/14/2005	01/15/2005	01/21/2005	465104	465104
01/13/2005	A9-6'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/13/2005	01/14/2005	01/15/2005	01/21/2005	465105	465105
01/13/2005	A10-5.5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/13/2005	01/14/2005	01/15/2005	01/21/2005	465106	465106
01/26/2005	A8.5A-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/26/2005	01/27/2005	02/02/2005	02/03/2005	465379	465379
01/26/2005	A8.5B-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/26/2005	01/27/2005	02/02/2005	02/03/2005	465381	465381
01/26/2005	A8.5C-6'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/26/2005	01/27/2005	02/02/2005	02/03/2005	465382	465382
01/26/2005	A9-6'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/26/2005	01/27/2005	02/03/2005	02/03/2005	465383	465383
01/26/2005	A10-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/26/2005	01/27/2005	02/03/2005	02/03/2005	465384	465384
01/26/2005	A10A-3'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/26/2005	01/27/2005	02/02/2005	02/03/2005	465385	465385
01/26/2005	A10B-6'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/26/2005	01/27/2005	02/02/2005	02/03/2005	465386	465386
01/26/2005	A10C-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/26/2005	01/27/2005	02/03/2005	02/03/2005	465387	465387
01/26/2005	B7-3'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/26/2005	01/27/2005	02/02/2005	02/03/2005	465388	465388
01/26/2005	A8A-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/26/2005	01/27/2005	02/03/2005	02/03/2005	465389	465389
01/26/2005	A8-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/26/2005	01/27/2005	02/03/2005	02/03/2005	465390	465390
01/26/2005	A7-4'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/26/2005	01/27/2005	02/03/2005	02/03/2005	465391	465391
01/26/2005	A7A-3'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/26/2005	01/27/2005	02/03/2005	02/03/2005	465392	465392
01/26/2005	B6-2'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/26/2005	01/27/2005	02/02/2005	02/03/2005	465393	465393
01/26/2005	C7A-2'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/26/2005	01/27/2005	02/03/2005	02/03/2005	465394	465394
01/26/2005	C6B-2.5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/26/2005	01/27/2005	02/03/2005	02/03/2005	465395	465395
01/26/2005	C7-2'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/26/2005	01/27/2005	02/03/2005	02/03/2005	465396	465396
01/26/2005	C6-3'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/26/2005	01/27/2005	02/03/2005	02/03/2005	465397	465397
01/26/2005	C6A-2.5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/26/2005	01/27/2005	02/03/2005	02/03/2005	465398	465398
01/26/2005	C4-4'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/26/2005	01/27/2005	02/03/2005	02/03/2005	465399	465399
01/26/2005	C4A-2'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/26/2005	01/27/2005	02/02/2005	02/03/2005	465400	465400
01/26/2005	C3A-2'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/26/2005	01/27/2005	02/02/2005	02/03/2005	465401	465401
01/26/2005	C3-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/26/2005	01/27/2005	02/03/2005	02/03/2005	465402	465402
01/26/2005	C2-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/26/2005	01/27/2005	02/02/2005	02/03/2005	465403	465403
01/26/2005	C2B-6'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/26/2005	01/27/2005	02/03/2005	02/03/2005	465404	465404
01/26/2005	C2A-3'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/26/2005	01/27/2005	02/02/2005	02/03/2005	465405	465405
01/26/2005	C1A-3'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/26/2005	01/27/2005	02/03/2005	02/03/2005	465406	465406
01/26/2005	C1-6'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	01/26/2005	01/27/2005	02/03/2005	02/03/2005	465661	465661
02/10/2005	A8.5A-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/10/2005	02/11/2005	02/16/2005	02/18/2005	465132	465132
02/10/2005	A8.5B-5.5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/10/2005	02/11/2005	02/16/2005	02/18/2005	465133	465133
02/10/2005	A8.5C-5.5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/10/2005	02/11/2005	02/16/2005	02/18/2005	465134	465134
02/10/2005	A9-6'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/10/2005	02/11/2005	02/17/2005	02/18/2005	465135	465135
02/10/2005	A10-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/10/2005	02/11/2005	02/17/2005	02/18/2005	465136	465136
02/10/2005	A10A-4'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/10/2005	02/11/2005	02/17/2005	02/18/2005	465137	465137
02/10/2005	A10B-4'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/10/2005	02/11/2005	02/17/2005	02/18/2005	465138	465138
02/10/2005	A10C-4.5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/10/2005	02/11/2005	02/17/2005	02/18/2005	465139	465139
02/10/2005	C7A-2'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/10/2005	02/11/2005	02/16/2005	02/18/2005	465662	465662

Appendix G
PASSIVE SEWER SAMPLER TRACKING TABLE

Hartford Working Group
Hartford, Illinois

Sample Date	Sample ID	Sample Matrix	Analysis Type	Sampling Purpose	Laboratory	Date				Laboratory Report / Sample ID	Sample Data Group Number
						Sampled	Received By Lab	Analyzed By Lab	Reported By Lab		
02/10/2005	C6B-4'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/10/2005	02/11/2005	02/17/2005	02/18/2005	465663	465663
02/10/2005	C7-3'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/10/2005	02/11/2005	02/17/2005	02/18/2005	465664	465664
02/10/2005	C6A-2'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/10/2005	02/11/2005	02/16/2005	02/18/2005	465665	465665
02/10/2005	C6-3'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/10/2005	02/11/2005	02/16/2005	02/18/2005	465666	465666
02/10/2005	C4-4'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/10/2005	02/11/2005	02/17/2005	02/18/2005	465667	465667
02/10/2005	C4A-3'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/10/2005	02/11/2005	02/17/2005	02/18/2005	465668	465668
02/10/2005	C3A-2'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/10/2005	02/11/2005	02/16/2005	02/18/2005	465669	465669
02/10/2005	C3-7'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/10/2005	02/11/2005	02/16/2005	02/18/2005	465670	465670
02/10/2005	C2-6'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/10/2005	02/11/2005	02/17/2005	02/18/2005	465671	465671
02/10/2005	C2A-3'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/10/2005	02/11/2005	02/16/2005	02/18/2005	465672	465672
02/10/2005	C2B-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/10/2005	02/11/2005	02/17/2005	02/18/2005	465673	465673
02/10/2005	C1-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/10/2005	02/11/2005	02/17/2005	02/18/2005	465674	465674
02/10/2005	C1A-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/10/2005	02/11/2005	02/17/2005	02/18/2005	465675	465675
02/10/2005	A8-4.5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/10/2005	02/11/2005	02/17/2005	02/18/2005	465676	465676
02/10/2005	A8A-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/10/2005	02/11/2005	02/17/2005	02/18/2005	465677	465677
02/10/2005	B7-3'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/10/2005	02/11/2005	02/16/2005	02/18/2005	465678	465678
02/10/2005	B6-2'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/10/2005	02/11/2005	02/16/2005	02/18/2005	465679	465679
02/10/2005	A7A-3'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/10/2005	02/11/2005	02/17/2005	02/18/2005	465680	465680
02/10/2005	A7-4'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/10/2005	02/11/2005	02/17/2005	02/18/2005	465681	465681
02/23/2005	A8.5A-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/23/2005	02/25/2005	03/01/2005	03/02/2005	465140	465140
02/23/2005	A8.5B-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/23/2005	02/25/2005	03/01/2005	03/02/2005	465141	465141
02/23/2005	A8.5C-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/23/2005	02/25/2005	03/01/2005	03/02/2005	465142	465142
02/23/2005	A9-6'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/23/2005	02/25/2005	03/01/2005	03/02/2005	465143	465143
02/23/2005	A10-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/23/2005	02/25/2005	03/01/2005	03/02/2005	465144	465144
02/23/2005	A10A-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/23/2005	02/25/2005	03/01/2005	03/02/2005	465145	465145
02/23/2005	A10B-4'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/23/2005	02/25/2005	03/01/2005	03/02/2005	465146	465146
02/23/2005	A10C-4'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/23/2005	02/25/2005	03/01/2005	03/02/2005	465147	465147
02/23/2005	C7A-2'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/23/2005	02/25/2005	03/01/2005	03/02/2005	465148	465148
02/23/2005	C6B-1'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/23/2005	02/25/2005	03/01/2005	03/02/2005	465149	465149
02/23/2005	C7-3'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/23/2005	02/25/2005	03/01/2005	03/02/2005	466932	466932
02/23/2005	C6A-2'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/23/2005	02/25/2005	02/28/2005	03/02/2005	466933	466933
02/23/2005	C4-4'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/23/2005	02/25/2005	02/28/2005	03/02/2005	466934	466934
02/23/2005	C4A-3'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/23/2005	02/25/2005	02/28/2005	03/02/2005	466935	466935
02/23/2005	C3A-2'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/23/2005	02/25/2005	03/01/2005	03/02/2005	466936	466936
02/24/2005	A8-4.5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/24/2005	02/25/2005	02/28/2005	03/02/2005	466937	466937
02/24/2005	A8A-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/24/2005	02/25/2005	03/01/2005	03/02/2005	466938	466938
02/24/2005	B7-3'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/24/2005	02/25/2005	02/28/2005	03/02/2005	466939	466939
02/24/2005	B6-2'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/24/2005	02/25/2005	03/01/2005	03/02/2005	466940	466940
02/24/2005	A7A-3'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/24/2005	02/25/2005	02/28/2005	03/02/2005	466941	466941
02/24/2005	A7-4'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/24/2005	02/25/2005	03/01/2005	03/02/2005	466942	466942
02/24/2005	C3-7'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/24/2005	02/25/2005	03/01/2005	03/02/2005	466943	466943
02/24/2005	C2-6'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/24/2005	02/25/2005	02/28/2005	03/02/2005	466944	466944
02/24/2005	C2B-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/24/2005	02/25/2005	02/28/2005	03/02/2005	466945	466945
02/24/2005	C2A-3'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/24/2005	02/25/2005	03/01/2005	03/02/2005	466955	466955
02/24/2005	C1A-4'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/24/2005	02/25/2005	02/28/2005	03/02/2005	466956	466956
02/24/2005	C1-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	02/24/2005	02/25/2005	02/28/2005	03/02/2005	466957	466957

Appendix G
PASSIVE SEWER SAMPLER TRACKING TABLE

Hartford Working Group
Hartford, Illinois

Sample Date	Sample ID	Sample Matrix	Analysis Type	Sampling Purpose	Laboratory	Date				Laboratory Report / Sample ID	Sample Data Group Number
						Sampled	Received By Lab	Analyzed By Lab	Reported By Lab		
03/09/2005	A8.5 A-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/09/2005	03/10/2005	03/11/2005	03/15/2005	466973	466973
03/09/2005	A8.5-B-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/09/2005	03/10/2005	03/11/2005	03/15/2005	466974	466974
03/09/2005	A8.5C-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/09/2005	03/10/2005	03/12/2005	03/15/2005	466975	466975
03/09/2005	A9-6'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/09/2005	03/10/2005	03/11/2005	03/15/2005	466976	466976
03/09/2005	A10-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/09/2005	03/10/2005	03/11/2005	03/15/2005	466977	466977
03/09/2005	A10A-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/09/2005	03/10/2005	03/12/2005	03/15/2005	466978	466978
03/09/2005	A10B-4'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/09/2005	03/10/2005	03/12/2005	03/15/2005	466979	466979
03/09/2005	A10C-4'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/09/2005	03/10/2005	03/11/2005	03/15/2005	466980	466980
03/09/2005	C7A-2'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/09/2005	03/10/2005	03/11/2005	03/15/2005	466981	466981
03/09/2005	C6B-1'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/09/2005	03/10/2005	03/11/2005	03/15/2005	466982	466982
03/09/2005	C7'3'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/09/2005	03/10/2005	03/11/2005	03/15/2005	466983	466983
03/09/2005	C6A-2'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/09/2005	03/10/2005	03/12/2005	03/15/2005	466984	466984
03/09/2005	C6-3'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/09/2005	03/10/2005	03/12/2005	03/15/2005	466985	466985
03/09/2005	C4-4'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/09/2005	03/10/2005	03/12/2005	03/15/2005	466986	466986
03/09/2005	C4A-3'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/09/2005	03/10/2005	03/12/2005	03/15/2005	466987	466987
03/09/2005	C3A-2'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/09/2005	03/10/2005	03/12/2005	03/15/2005	466988	466988
03/09/2005	C3-7'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/09/2005	03/10/2005	03/12/2005	03/15/2005	468728	468728
03/09/2005	C2-6'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/09/2005	03/10/2005	03/12/2005	03/15/2005	468729	468729
03/09/2005	C2B-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/09/2005	03/10/2005	03/12/2005	03/15/2005	468730	468730
03/09/2005	C2A-3'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/09/2005	03/10/2005	03/12/2005	03/15/2005	468731	468731
03/09/2005	C1A-7'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/09/2005	03/10/2005	03/12/2005	03/15/2005	468732	468732
03/09/2005	C1-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/09/2005	03/10/2005	03/12/2005	03/15/2005	468733	468733
03/09/2005	A8-4.5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/09/2005	03/10/2005	03/11/2005	03/15/2005	468734	468734
03/09/2005	A8A-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/09/2005	03/10/2005	03/11/2005	03/15/2005	468735	468735
03/09/2005	B7-3'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/09/2005	03/10/2005	03/11/2005	03/15/2005	468736	468736
03/09/2005	B6-2'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/09/2005	03/10/2005	03/12/2005	03/15/2005	468737	468737
03/09/2005	A7A-4'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/09/2005	03/10/2005	03/11/2005	03/15/2005	468738	468738
03/09/2005	A7-4'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/09/2005	03/10/2005	03/11/2005	03/15/2005	468739	468739
03/21/2005	A8.5-A-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/21/2005	03/22/2005	03/24/2005	03/29/2005	469740	469740
03/21/2005	A8.5-B-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/21/2005	03/22/2005	03/24/2005	03/29/2005	469741	469741
03/21/2005	A8.5-C-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/21/2005	03/22/2005	03/24/2005	03/29/2005	469742	469742
03/21/2005	A9-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/21/2005	03/22/2005	03/23/2005	03/29/2005	469743	469743
03/21/2005	A10-6'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/21/2005	03/22/2005	03/23/2005	03/29/2005	469744	469744
03/21/2005	A10A-4'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/21/2005	03/22/2005	03/23/2005	03/29/2005	469745	469745
03/21/2005	A10B-4'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/21/2005	03/22/2005	03/23/2005	03/29/2005	469746	469746
03/21/2005	A10C-4'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/21/2005	03/22/2005	03/24/2005	03/29/2005	469747	469747
03/21/2005	C7A-2'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/21/2005	03/22/2005	03/24/2005	03/29/2005	469748	469748
03/21/2005	C6B-2'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/21/2005	03/22/2005	03/24/2005	03/29/2005	469749	469749
03/21/2005	C7-3'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/21/2005	03/22/2005	03/24/2005	03/29/2005	469750	469750
03/21/2005	C6-2'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/21/2005	03/22/2005	03/24/2005	03/29/2005	469751	469751
03/21/2005	C6A-2'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/21/2005	03/22/2005	03/23/2005	03/29/2005	469752	469752
03/21/2005	C4-4'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/21/2005	03/22/2005	03/24/2005	03/29/2005	469753	469753
03/21/2005	C4A-3'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/21/2005	03/22/2005	03/23/2005	03/29/2005	469754	469754
03/21/2005	C3A-2'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/21/2005	03/22/2005	03/24/2005	03/29/2005	469755	469755
03/21/2005	C3-6'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/21/2005	03/22/2005	03/24/2005	03/29/2005	469756	469756
03/21/2005	C2-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/21/2005	03/22/2005	03/23/2005	03/29/2005	469757	469757

Appendix G
PASSIVE SEWER SAMPLER TRACKING TABLE

Hartford Working Group
Hartford, Illinois

Sample Date	Sample ID	Sample Matrix	Analysis Type	Sampling Purpose	Laboratory	Date				Laboratory Report / Sample ID	Sample Data Group Number
						Sampled	Received By Lab	Analyzed By Lab	Reported By Lab		
03/21/2005	C2B-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/21/2005	03/22/2005	03/24/2005	03/29/2005	469758	469758
03/21/2005	C2A-2.5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/21/2005	03/22/2005	03/24/2005	03/29/2005	469759	469759
03/21/2005	C1A-4'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/21/2005	03/22/2005	03/24/2005	03/29/2005	469760	469760
03/21/2005	C1-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/21/2005	03/22/2005	03/24/2005	03/29/2005	469761	469761
03/21/2005	A8-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/21/2005	03/22/2005	03/23/2005	03/29/2005	469762	469762
03/21/2005	A8A-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/21/2005	03/22/2005	03/24/2005	03/29/2005	469763	469763
03/21/2005	B7-2'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/21/2005	03/22/2005	03/24/2005	03/29/2005	469764	469764
03/21/2005	B6-3'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/21/2005	03/22/2005	03/24/2005	03/29/2005	469765	469765
03/21/2005	A7A-3'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/21/2005	03/22/2005	03/24/2005	03/29/2005	469766	469766
03/21/2005	A7-3'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	03/21/2005	03/22/2005	03/23/2005	03/29/2005	469767	469767
04/04/2005	A8.5-A-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/04/2005	04/05/2005	04/08/2005	04/12/2005	469768	469768
04/04/2005	A8.5-B-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/04/2005	04/05/2005	04/08/2005	04/12/2005	469769	469769
04/04/2005	A8.5-C-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/04/2005	04/05/2005	04/08/2005	04/12/2005	469770	469770
04/04/2005	A9-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/04/2005	04/05/2005	04/08/2005	04/12/2005	469771	469771
04/04/2005	A10-6'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/04/2005	04/05/2005	04/09/2005	04/12/2005	469772	469772
04/04/2005	A10A-4'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/04/2005	04/05/2005	04/09/2005	04/12/2005	469773	469773
04/04/2005	A10B-4'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/04/2005	04/05/2005	04/08/2005	04/12/2005	469774	469774
04/04/2005	A10C-4'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/04/2005	04/05/2005	04/08/2005	04/12/2005	469775	469775
04/04/2005	C7A-2'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/04/2005	04/05/2005	04/09/2005	04/12/2005	471712	471712
04/04/2005	C6B-2'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/04/2005	04/05/2005	04/09/2005	04/12/2005	471713	471713
04/04/2005	C7-3'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/04/2005	04/05/2005	04/09/2005	04/12/2005	471714	471714
04/04/2005	C6-2'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/04/2005	04/05/2005	04/09/2005	04/12/2005	471715	471715
04/04/2005	C6A-2'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/04/2005	04/05/2005	04/09/2005	04/12/2005	471716	471716
04/04/2005	C4-4'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/04/2005	04/05/2005	04/09/2005	04/12/2005	471717	471717
04/04/2005	C4A-3'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/04/2005	04/05/2005	04/09/2005	04/12/2005	471718	471718
04/04/2005	C3A-2'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/04/2005	04/05/2005	04/08/2005	04/12/2005	471719	471719
04/04/2005	C3-6'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/04/2005	04/05/2005	04/08/2005	04/12/2005	471720	471720
04/04/2005	C2-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/04/2005	04/05/2005	04/08/2005	04/12/2005	471721	471721
04/04/2005	C2B-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/04/2005	04/05/2005	04/08/2005	04/12/2005	471722	471722
04/04/2005	C2A-2.5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/04/2005	04/05/2005	04/08/2005	04/12/2005	471723	471723
04/04/2005	C1A-4'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/04/2005	04/05/2005	04/09/2005	04/12/2005	471724	471724
04/04/2005	C1-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/04/2005	04/05/2005	04/09/2005	04/12/2005	471725	471725
04/04/2005	A8-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/04/2005	04/05/2005	04/08/2005	04/12/2005	471726	471726
04/04/2005	A8A-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/04/2005	04/05/2005	04/09/2005	04/12/2005	471727	471727
04/04/2005	B7-2'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/04/2005	04/05/2005	04/09/2005	04/12/2005	471728	471728
04/04/2005	B6-3'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/04/2005	04/05/2005	04/08/2005	04/12/2005	471729	471729
04/04/2005	A7A-3'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/04/2005	04/05/2005	04/08/2005	04/12/2005	471730	471730
04/04/2005	A7-3'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/04/2005	04/05/2005	04/09/2005	04/12/2005	471731	471731
04/19/2005	A8.5-A-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/19/2005	04/20/2005	04/08/2005	04/27/2005	471732	471732
04/19/2005	A8.5-C-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/19/2005	04/20/2005	04/22/2005	04/27/2005	471734	471734
04/19/2005	A9-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/19/2005	04/20/2005	04/22/2005	04/27/2005	471735	471735
04/19/2005	A10-6'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/19/2005	04/20/2005	04/22/2005	04/27/2005	471736	471736
04/19/2005	A10A-4'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/19/2005	04/20/2005	04/22/2005	04/27/2005	471737	471737
04/19/2005	A10B-4'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/19/2005	04/20/2005	04/22/2005	04/27/2005	471738	471738
04/19/2005	A10C-4'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/19/2005	04/20/2005	04/22/2005	04/27/2005	471739	471739
04/19/2005	C7A-2'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/19/2005	04/20/2005	04/23/2005	04/27/2005	471740	471740

Appendix G
PASSIVE SEWER SAMPLER TRACKING TABLE

Hartford Working Group
Hartford, Illinois

Sample Date	Sample ID	Sample Matrix	Analysis Type	Sampling Purpose	Laboratory	Date				Laboratory Report / Sample ID	Sample Data Group Number
						Sampled	Received By Lab	Analyzed By Lab	Reported By Lab		
04/19/2005	C6B-2'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/19/2005	04/20/2005	04/23/2005	04/27/2005	471741	471741
04/19/2005	C7-3'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/19/2005	04/20/2005	04/23/2005	04/27/2005	471742	471742
04/19/2005	C6-2'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/19/2005	04/20/2005	04/22/2005	04/27/2005	471743	471743
04/19/2005	C6A-2'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/19/2005	04/20/2005	04/23/2005	04/27/2005	471744	471744
04/19/2005	C4-4'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/19/2005	04/20/2005	04/23/2005	04/27/2005	471745	471745
04/19/2005	C4A-3'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/19/2005	04/20/2005	04/23/2005	04/27/2005	471746	471746
04/19/2005	C3A-2'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/19/2005	04/20/2005	04/22/2005	04/27/2005	471747	471747
04/19/2005	C3-6'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/19/2005	04/20/2005	04/23/2005	04/27/2005	471748	471748
04/19/2005	C2-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/19/2005	04/20/2005	04/23/2005	04/27/2005	471749	471749
04/19/2005	C2B-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/19/2005	04/20/2005	04/23/2005	04/27/2005	471750	471750
04/19/2005	C2A-2.5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/19/2005	04/20/2005	04/22/2005	04/27/2005	471751	471751
04/19/2005	C1A-4'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/19/2005	04/20/2005	04/23/2005	04/27/2005	471752	471752
04/19/2005	C1-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/19/2005	04/20/2005	04/22/2005	04/27/2005	471753	471753
04/19/2005	A8-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/19/2005	04/20/2005	04/22/2005	04/27/2005	471754	471754
04/19/2005	A8A-5'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/19/2005	04/20/2005	04/22/2005	04/27/2005	471826	471826
04/19/2005	B7-2'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/19/2005	04/20/2005	04/22/2005	04/27/2005	471827	471827
04/19/2005	B6-3'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/19/2005	04/20/2005	04/22/2005	04/27/2005	471828	471828
04/19/2005	A7A-3'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/19/2005	04/20/2005	04/23/2005	04/27/2005	471829	471829
04/19/2005	A7-3'	Sewer Vapor	Fuel Hydrocarbons	Petroleum hydrocarbon impacts to soil	W.L. GORE & ASSOCIATES, INC.	04/19/2005	04/20/2005	04/23/2005	04/27/2005	471830	471830

APPENDIX H

AREA 1 PASSIVE SAMPLER TECHNICAL MEMORANDUM

Technical Memorandum

To:	The Hartford Working Group	**Date:**	April 27, 2005
From:	Patrick Haskell Daniel Groher	**File:**	01005-093-351
RE:	Hartford Area Hydrocarbon Plume Site - Area 1 - HCC Passive Soil Vapor Sample Results	**CC:**	D. Schumacher/ENSR R. Feeney/ENSR J. Petruccione/ENSR R. Schilling/ENSR

ENSR has reviewed the passive soil gas data collected in Area 1 in the vicinity of the Hartford Community Center (HCC). The data in this review includes the results from paired Emflux® and Gore-Sorber® samplers installed in Area 1 in February 2005 and the soil vapor samples collected from vapor monitoring points in January 2005. These data were reviewed with the following objectives:

1. to evaluate the effectiveness of the passive samplers as a screening tool to identify locations that would be appropriate for the installation of permanent vapor monitoring points (e.g., where vapor plumes are present at shallow depths);
2. to evaluate the results from co-located passive samplers to compare the performance of the two types of samplers; and
3. to compare the passive sampler data with samples collected from nearby active soil gas sampling stations.

Figure 1 shows selected passive soil gas sample locations, along with nearby shallow vapor monitoring point (VMP) sample locations. Observations and recommendations regarding these data as they relate to the above-listed objectives follow.

Discussion of Passive Soil Vapor Sampling Methodology

Both Gore-Sorber® and Emflux® samplers rely on passive sorption of hydrocarbons from soil vapor into the sampler medium to assess the relative presence of hydrocarbon vapors in the subsurface. This sampling mechanism requires that the soil vapor be in direct contact with the sampler. Such soil vapors can come into contact with the sampler via either diffusion or advective transport.

The passive samplers have been used at the site to assess the relative presence of hydrocarbon vapors in the very shallow overburden, which consists of a low-permeability silty clay. The primary transport mechanism through this silty clay is understood to be advective vapor transport through secondary porosity (i.e., higher-permeability seams, fractures and utility conduits). While diffusion of vapors occurs at the site, the mass of hydrocarbon vapors transported by vapor diffusion is orders of magnitude less than that which can be moved by advective transport. For example, it is not conceivable that flammable concentrations of hydrocarbon vapors could be transported through the subsurface from a distant source via diffusion.

Because vapor transport in the silty clay is controlled by secondary porosity features, passive samplers are at a disadvantage relative to active samplers, which have the potential to pull vapors from nearby secondary features, whereas passive samplers merely respond to the relatively immobile mass of vapors that have slowly diffused through the impermeable soil immediately surrounding the sampler. Despite this limitation, passive samplers have the potential to serve as a screening method for investigating hydrocarbon vapors, and it is this potential which is being evaluated herein.

Comparison of Emflux® and Gore-Sorber® Samples

The results of the Area 1 passive vapor sampler study indicate that the Emflux® sampler exhibited higher sensitivity to subsurface hydrocarbons than did the Gore-Sorber® sampler (i.e., the Emflux® results indicated a greater frequency of analyte detection and typically had higher numerical results). This contrasts with the findings in the Area 2 study. However, the Emflux® samplers used in the Area 1 study used a different sorbent from the prior study. The absorbent material (i.e., carbon molecular sieve) was modified in Area 1 to include both the 75 meter squared/gram (used in Area 2) and the addition of 485 meter squared/gram in order to increase the trapping properties of the sampler for lighter end petroleum hydrocarbons (e.g., benzene). This adjustment to the Emflux samplers resulted in an increased dynamic range for mass values of the contaminants of concern versus those mass values obtained in Area 2. The Area 2 results, however limited due to less "sensitive" adsorbent media used, do indicate that heavier end petroleum hydrocarbons do not appear to be present versus the lighter end constituents where the passive Emflux sampling was performed.

Figures 2 and 3 depict interpreted contours of the Emflux® and Gore-Sorber® results, respectively, for benzene; Figures 4 and 5 depict the same respective results for isopentane; and Figures 6 and 7 depict the same respective results for petroleum hydrocarbons. The contours depicted in these figures were generated by kriging the passive sampler data using the spatial data analysis program Surfer®. Each of these datasets indicates an area of elevated impacts that lies less than 100 ft. from the northwest corner of the HCC.

While the extents of the benzene and isopentane plumes inferred from the two types of samplers are somewhat similar, the numerical results of the two samplers do not appear to correlate well. Figures 8, 9 and 10 are graphs depicting the correlation of the isopentane, petroleum hydrocarbon (total petroleum hydrocarbon [Gore-Sorber®] and total aliphatic hydrocarbon [Emflux®]) and benzene values from the two types of passive samplers[1]. The figures present correlation coefficients for linear, logarithmic and exponential fits of the data. The graphs and calculated correlation coefficients indicate that data are generally not well correlated between the two passive samplers, although the correlation for benzene is somewhat better than those for isopentane and TPH.

Comparison of Passive Sample Data and Soil Field Screening Data

Figures 11 and 12 depict the results of flame ionization detector (FID) and photoionization detector (PID) field screening for soil samples collected from the passive sampler soil borings at the depth at which the samplers were installed. The contours depicted in these figures were generated by kriging the soil headspace screening data for the passive sampler boring locations using the spatial data analysis program Surfer®. While the general areas of impacts are similar, there are differences in the patterns of impacts indicated by the soil screening results and the passive sampler results. In particular, there are elevated FID responses at locations where petroleum hydrocarbons and isopentane are not indicated by the passive vapor sampler results (e.g., north of Rand Avenue). The discrepancy could be due to the presence of methane or other hydrocarbon not quantitated by passive sampler analysis, but to which the FID responds.

[1] The correlations were performed only for results that indicated a detection of an analyte. Non-detect results are not depicted on the figures.

Figures 13 through 16 compare FID and PID screening results with passive sampler petroleum hydrocarbon and benzene results, respectively. While FID soil screening and passive sampler petroleum hydrocarbon results do not correlate well, PID soil screening and passive sampler benzene results do correlate moderately well (r^2 = 0.72). This suggests that while analytical differences may exist that cause soil screening and passive soil vapor data to differ, the basic technique of screening soil samples with FID and PID for indications of soil vapor impacts provides a similar level of characterization of soil gas impacts as the passive samplers. In addition, soil screening can be performed more effectively by using a carbon filter in conjunction with the FID to determine how much methane or other light-end non-sorbing hydrocarbons (e.g., ethene) are present that could affect FID screening results.

Comparison of Passive Sample Data and Active Soil Vapor Sample Data

Because none of the passive soil gas sample locations were selected to correlate with specific active soil gas sample locations and because no active soil gas sampling was performed during the passive soil gas sampling period, a strict comparison between passive and active soil gas samples is not possible. However, the interpreted soil vapor concentration contours derived from the results of the various sampling methods can be compared to qualitatively evaluate whether the two sampling methods provide the same characterization of soil gas impacts.

Figures 17 through 19 depict the benzene, isopentane and total petroleum hydrocarbon data from the shallow overburden vapor monitoring points in Area 1 that were sampled in January 2005. The contours depicted in these figures were generated by kriging the soil vapor sampling data for HCC - Area 1 only, using the spatial data analysis program Surfer®. Data from beyond Area 1 were not used in the derivation of these contours, and therefore, extrapolation beyond the sampling locations depicted in the figures may not be representative.

While the results cannot be directly correlated due to differences in sampling times and locations, it is notable that in the area east of the HCC, active soil vapor sampling results indicate an area of elevated benzene vapor concentrations in the shallow overburden at VMP-10. This area of elevated benzene concentrations was not observed in passive sampler results from the nearby sampling location HA-37. This difference between active and passive sampler results suggests that either there is a high degree of temporal variability in vapor concentrations in the shallow subsurface or that the sampling methodology of passive samplers has limitation with respect to accurately representing soil vapor concentrations. Given previous instances of false negative results and the absence of false positive results for passive samplers co-located next to vapor monitoring points in previous the study (Area 2 Passive Soil Vapor Sample Results. Technical Memorandum, ENSR, 2005) this supports the conceptual model that passive samplers at the site are unable to accurately characterize soil vapors in low permeability soils, except those immediately adjacent to the sampler.

Conclusions

1. The results of the passive soil gas samples from Area 1 indicate that the Emflux® samplers are more sensitive for benzene and may potentially be more accurate than the Gore-Sorber® samplers used in the study. This is in contrast to passive sampling in Area 2 and likely indicates that the Emflux® sampler media used in the Area 1 study are more appropriate than those used in the Area 2 study.

2. PID screening results from soil samples collected from the passive sampler locations provide conclusions similar to the passive sampler benzene results, indicating that field headspace screening measurements may be as useful as the passive samplers for selecting locations with elevated vapor concentrations.

3. FID screening results from soil samples collected from the passive sampler locations do not correlate well with passive sampler analytical data. Because methane is a significant component of the soil vapor near

the HCC it is, therefore important to perform carbon filtering of soil screening samples in conjunction with FID screening to evaluate to what extent FID screening data are indicative of methane in the subsurface.

4. The rate of non-detection results was greater for the passive samplers than for soil headspace screening, indicating that FID and PID are more sensitive to lower concentrations of vapors than passive samplers.

5. Passive samplers sometimes indicated an absence of significant hydrocarbon vapors at locations where active vapor sampling detected elevated concentrations, suggesting that the passive sampling techniques are limited in their ability to accurately characterize soil vapor concentrations in the heterogeneous, low-permeability subsurface at the site, due to their reliance on diffusion to transport mass to the sampler location or due to temporal variability in the soil vapor distribution.

6. The characterizations of the extent of soil vapors in the shallow overburden by the two types of passive samplers differ from one another and from the results of vapor monitoring point sampling. Because vapor monitoring point sampling provides a better indication of soil vapor concentrations, the passive samplers should be considered solely as a screening tool similar to soil headspace screening.

Recommendations:

1. Rely on the active sample locations to characterize soil vapor concentrations in the village both spatially and temporally.

2. If indications of potential soil gas impacts are desired in areas not characterized by vapor monitoring points, soil screening via FID (and possibly PID) is sufficient. If such screening indicates the potential for soil gas impacts, a vapor monitoring point can be installed.

3. Only use passive soil gas sampler in locations where the conceptual site model indicates that

    a. the active sampling network is insufficient to understand the vapor concentrations,

    b. soil headspace screening reveals impacts,

    c. soil vapors need to be characterized with respect to specific analytes; AND

    d. installation of vapor monitoring points is impractical.

Even in these cases where passive samplers are utilized, it is important to consider in the evaluation of results that the passive samplers will typically only represent vapors transported by diffusion (in the absence of a local vapor migration pathway) and will not represent temporal fluctuations in soil gas concentrations.

References:

ENSR International, 2005. Hartford Area Hydrocarbon Plume Site - Area 2 Passive Soil Vapor Sample Results. Technical Memorandum to USEPA, dated February 24, 2005.

Table 1
Summary of Gore-Sorber Data
Area 1 - Hartford Community Center
Hartford, Illinois

	Location	**HA2**	**HA-4**	**HA-6**	**HA-8**	**HA-10**	**HA-13**	**HA-16**	**HA-19**	**HA-24**	**HA-27**	**HA-29**	**HA-31**	**HA-34**	**HA-37**
Approximate depth below grade (ft)		**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**
Gore-Sorber® Module Installation Date		**2/18/05**	**2/18/05**	**2/18/05**	**2/18/05**	**2/18/05**	**2/18/05**	**2/18/05**	**2/18/05**	**2/18/05**	**2/18/05**	**2/18/05**	**2/18/05**	**2/18/05**	**2/18/05**
Gore-Sorber® Module Retrieval Date		**2/25/05**	**2/25/05**	**2/25/05**	**2/25/05**	**2/25/05**	**2/25/05**	**2/25/05**	**2/25/05**	**2/25/05**	**2/25/05**	**2/25/05**	**2/25/05**	**2/25/05**	**2/25/05**
Compound	**MDL**														
Total Petroleum Hydrocarbons	NA	0.79	0.19	2.60	1.57	18.41	0.54	0.87	117.73	1.51	110.33	28.52	0.25	142.17	0.53
BTEX	NA	ND	ND	ND	0.00	5.42	0.00	0.06	6.91	ND	5.06	5.08	0.00	0.20	ND
Benzene	**0.03**	ND	ND	ND	ND	2.82	BDL	0.03	5.92	ND	4.59	4.17	ND	0.10	ND
Toluene	**0.02**	ND	ND	ND	BDL	BDL	ND	ND	0.09	ND	BDL	0.03	BDL	0.05	ND
Ethylbenzene	**0.01**	ND	ND	ND	BDL	1.14	ND	BDL	0.12	ND	0.15	0.20	ND	BDL	ND
m,p-Xylene	**0.01**	ND	ND	ND	BDL	1.23	BDL	0.02	0.74	ND	0.30	0.50	ND	0.02	ND
o-Xylene	**0.01**	ND	ND	ND	ND	0.24	ND	ND	0.05	ND	0.03	0.20	ND	0.02	ND
Undecane, tridecane & pentadecane	NA	0.00	ND	ND	ND	ND	ND	ND	ND	ND	0.04	0.05	ND	0.03	0.00
Undecane	**0.02**	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.04	0.05	ND	0.03	ND
Tridecane	**0.01**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BDL	ND	ND	ND
Pentadecane	**0.02**	BDL	ND	ND	ND	ND	ND	ND	ND	ND	ND	BDL	ND	BDL	BDL
1,3,5-Trimethylbenzene & 1,2,4-Trimethylbenzene	NA	ND	ND	ND	0.00	0.67	ND	0.00	0.40	ND	1.64	1.31	ND	0.02	ND
1,2,4-Trimethylbenzene	**0.02**	ND	ND	ND	ND	0.38	ND	ND	0.23	ND	0.45	0.91	ND	BDL	ND
1,3,5-Trimethylbenzene	**0.03**	ND	ND	ND	BDL	0.30	ND	BDL	0.17	ND	1.19	0.40	ND	0.02	ND
Naphthalene and 2-Methylnaphthalene	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	**0.01**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	**0.02**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tertiary-butyl ether	**0.04**	ND	ND	BDL	ND	ND	ND	ND	BDL	ND	0.04	ND	ND	BDL	ND
Octane	**0.02**	ND	ND	ND	ND	BDL	ND	ND	0.08	BDL	0.03	0.03	ND	0.11	ND
Isopentane	**0.02**	ND	ND	1.39	0.56	6.71	0.16	0.17	29.80	0.02	16.64	1.31	ND	5.58	ND

NOTES:
Compound results reported in micrograms (µg) per sorber
MDL - Method Detection Limit
BDL-below detection limit (compound detected below the MDL - cannot quantify with confidence)
ND-non detect
NA - No MDL is available for combinations of analytes as they are a summation of the individual compounds

Table 2
Summary of Emflux Data
Hartford Community Center
Area 1 - Hartford, Illinois

Location	HA-1	HA-2	HA-3	HA-5	HA-6	HA-7	HA-8	HA-10	HA-13	HA-13 D	HA-15	HA-16	HA-19
Approximate depth below grade (ft)	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**
Emflux Module Installation Date	**2/18/05**	**2/18/05**	**2/18/05**	**2/18/05**	**2/18/05**	**2/18/05**	**2/18/05**	**2/18/05**	**2/18/05**	**2/18/05**	**2/18/05**	**2/18/05**	**2/18/05**
Emflux Module Retrieval Date	**2/21/05**	**2/21/05**	**2/21/05**	**2/21/05**	**2/21/05**	**2/21/05**	**2/21/05**	**2/21/05**	**2/21/05**	**2/21/05**	**2/21/05**	**2/21/05**	**2/21/05**
Compound													
Isopentane	**116**	**311**	**165**	**963**	**17,798**	**770**	**678**	**337**	**727**	**1,029**	**179**	**42,678**	**5,748**
Methyl-t-butyl Ether	<20	<20	<20	<20	<20	<20	<20	**21**	<20	<20	<20	<20	<20
Hexane	<20	<20	<20	**41**	**347**	<20	<20	<20	<20	**21**	<20	**678**	<20
Benzene	**57**	**53**	**71**	**22**	**31**	**57**	**118**	**963**	**281**	**289**	**80**	**141**	**5,656**
Toluene	**20**	**24**	**24**	**22**	**28**	**30**	**29**	**41**	**31**	**30**	**32**	**47**	**99**
Octane	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Ethylbenzene	<20	<20	<20	<20	<20	<20	<20	**66**	<20	<20	<20	<20	**429**
p & m-Xylene	<20	<20	<20	<20	<20	<20	<20	**58**	<20	**21**	<20	**20**	**641**
o-Xylene	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	**28**
1,3,5-Trimethylbenzene	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	**29**
1,2,4-Trimethylbenzene	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	**53**
Undecane	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Naphthalene	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Tridecane	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
2-Methylnaphthalene	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Pentadecane	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Total Aliphatic Hydrocarbons	<1,000	<1,000	<1,000	**8,932**	**19,462**	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	**33,253**	**4,944**

NOTES:
Compound results reported in nanograms
(ng) per trap

Table 2
Summary of Emflux Data
Hartford Community Center
Area 1 - Hartford, Illinois

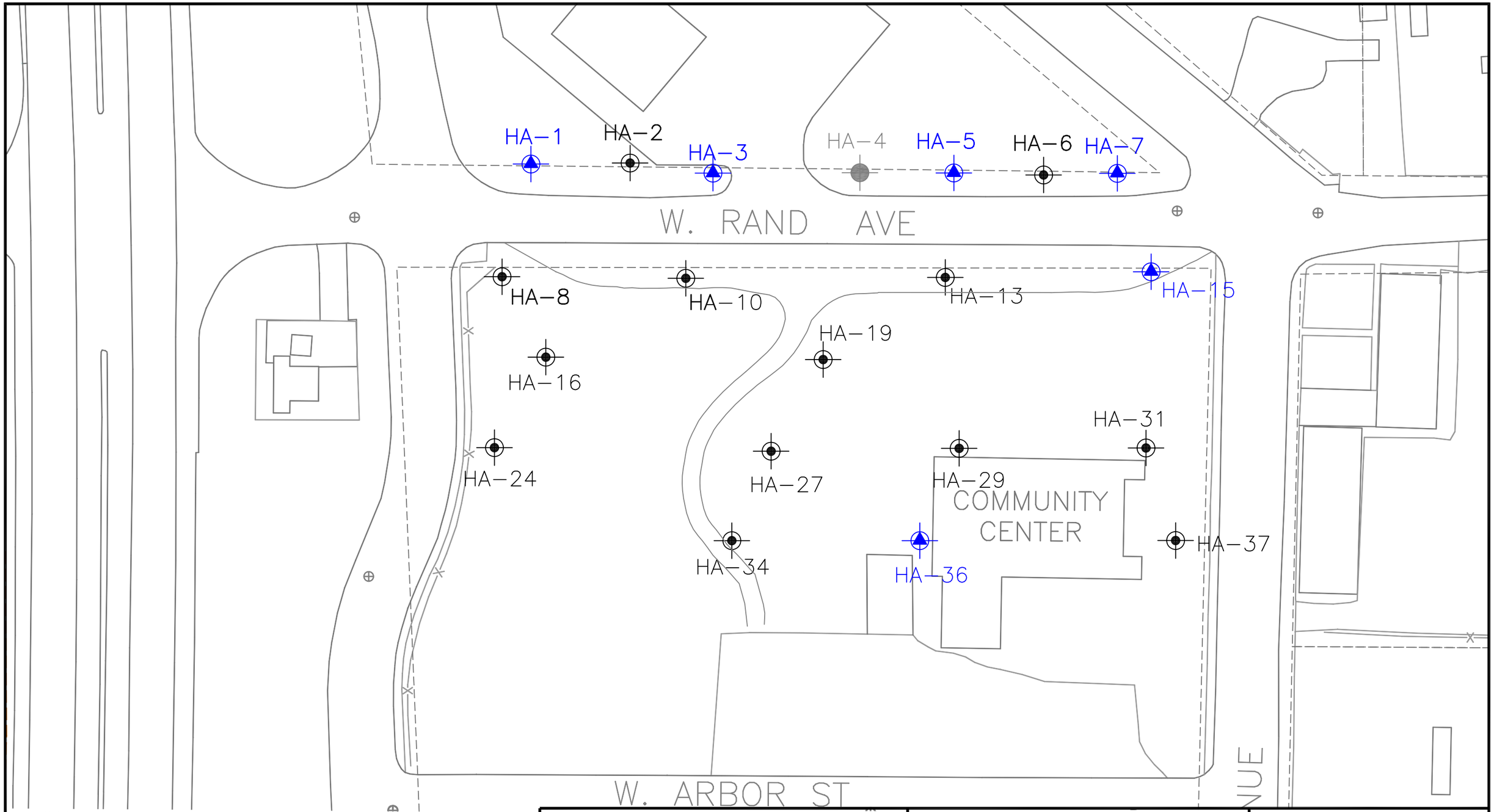
Location	HA-24	HA-27	HA-29	HA-31	HA-31 D	HA-34	HA-36	HA-37	Meth Blk	Trip-3	Trip-4	Meth_Blk
Approximate depth below grade (ft)	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**NA**	**NA**	**NA**	**NA**
Emflux Module Installation Date	**2/18/05**	**2/18/05**	**2/18/05**	**2/18/05**	**2/18/05**	**2/18/05**	**2/18/05**	**2/18/05**	**NA**	**NA**	**NA**	**NA**
Emflux Module Retrieval Date	**2/21/05**	**2/21/05**	**2/21/05**	**2/21/05**	**2/21/05**	**2/21/05**	**2/21/05**	**2/21/05**	**NA**	**NA**	**NA**	**NA**
Compound												
Isopentane	**390**	**26,612**	**4,319**	**474**	**373**	**99,732**	**66,732**	**404**	<20	**69**	**39**	<20
Methyl-t-butyl Ether	**28**	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Hexane	<20	**103,335**	**260**	**52**	**28**	**3,387**	**60,270**	**82**	<20	<20	**28**	<20
Benzene	**79**	**58,436**	**651**	**86**	**30**	**80**	**26,016**	**111**	<20	<20	**35**	<20
Toluene	**30**	**2,042**	**67**	**31**	**32**	**196**	**1,058**	**29**	<20	<20	**20**	<20
Octane	<20	**18,801**	<20	**31**	<20	<20	<20	<20	<20	<20	<20	<20
Ethylbenzene	<20	**1,865**	**24**	<20	<20	**21**	<20	<20	<20	<20	<20	<20
p & m-Xylene	<20	**1,616**	**87**	**24**	**25**	**59**	**473**	<20	<20	<20	<20	<20
o-Xylene	<20	**230**	**214**	<20	**20**	**30**	**206**	<20	<20	<20	<20	<20
1,3,5-Trimethylbenzene	<20	**3,320**	**31**	<20	**20**	<20	**3,381**	<20	<20	<20	<20	<20
1,2,4-Trimethylbenzene	<20	**793**	**356**	**26**	**30**	<20	**1,546**	<20	<20	<20	<20	<20
Undecane	<20	**89**	**29**	<20	<20	<20	<20	<20	<20	<20	<20	<20
Naphthalene	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Tridecane	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
2-Methylnaphthalene	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Pentadecane	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Total Aliphatic Hydrocarbons	**3,711**	**534,264**	**18,214**	<1,000	<1,000	**141,750**	**310,071**	**1,604**	<1,000	<1,000	<1,000	<1,000

NOTES:
Compound results reported in nanograms (ng) per trap

Table 3
Summary of Soil Headspace Screening Results
Hartford Community Center
Hartford, Illinois

Sample Location	PID (ppmv)	FID (ppmv)
HA-1	1	7
HA-2	2	10
HA-3	1	8
HA-4	1	1000
HA-5	1	4
HA-6	1	14
HA-07	0	0
HA-08	14	2410
HA-10	52	935
HA-13	19	2650
HA-15	0	10
HA-16	24	450
HA-19	72	1890
HA-21	2	8
HA-23	0	1
HA-24	2	956
HA-27	62	2010
HA-29	8	515
HA-31	0	50
HA-34	25	850
HA-36	6	576
HA-37	0	20

NOTES:
All samples collected from 5 to 6 feet below grade, where passive samplers were installed.
ppmv = parts per million by volume



LEGEND:

- HAND AUGER LOCATION (GORE SORBER)
- HAND AUGER LOCATION (EMFLUX)
- HAND AUGER LOCATION (GORE SORBER & EMFLUX)

DRAFT WORK IN PROGRESS

SCALE IN FEET

0 50 100

1" = 50'

N

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AREA 1 - PASSIVE SOIL VAPOR SAMPLE AND VAPOR MONITORING POINT LOCATIONS HARTFORD, IL

FIGURE 1

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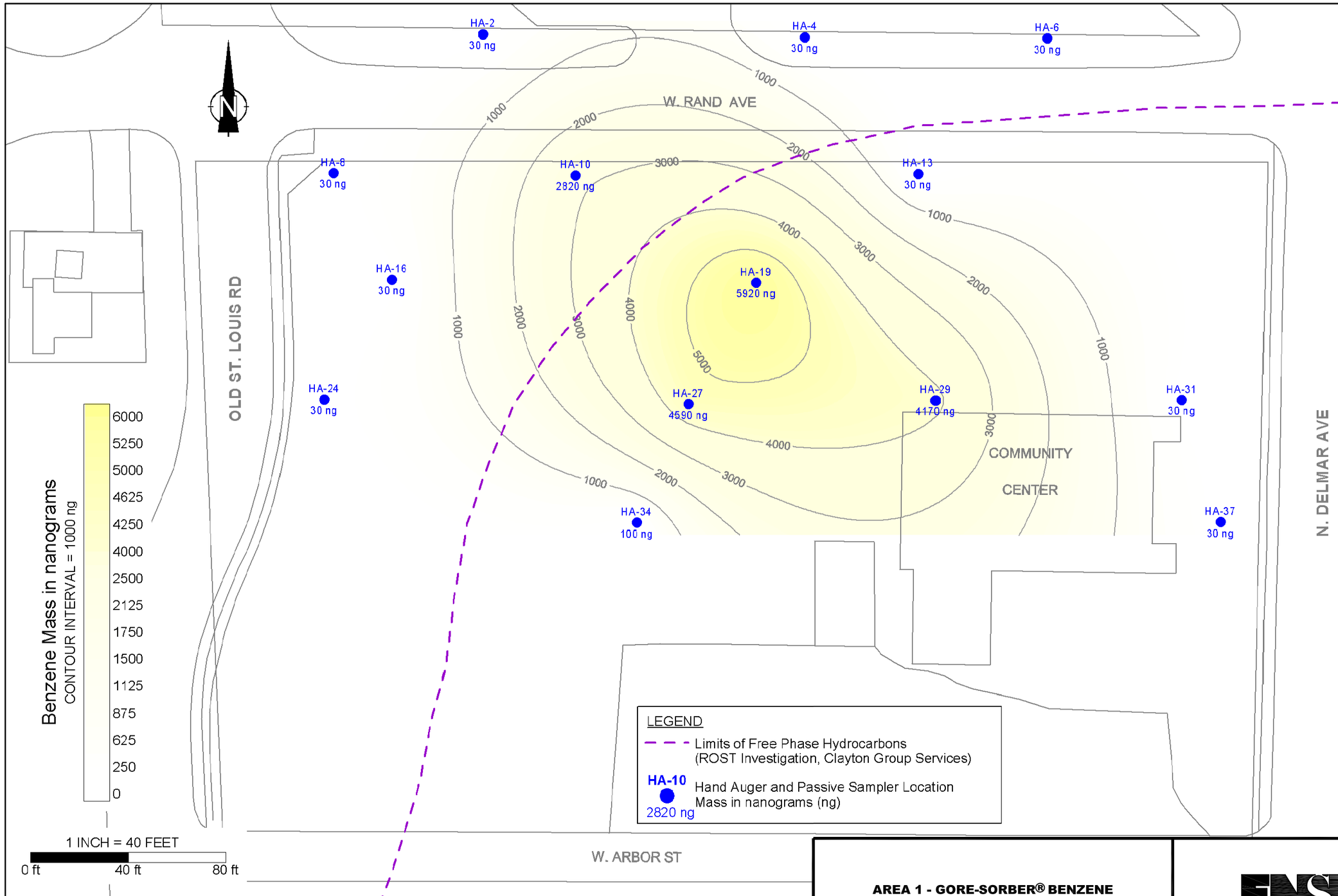
U:\Cad_Drive\01000-01999\1005\093\CSM Report\Appendix Figures\01005-093_Fig 1_Passive Soil Gas Sample & Vapor Monitoring Point.dwg



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AREA 1 - GORE-SORBER® BENZENE RESULTS DISTRIBUTION
HARTFORD, ILLINOIS

FIGURE 2

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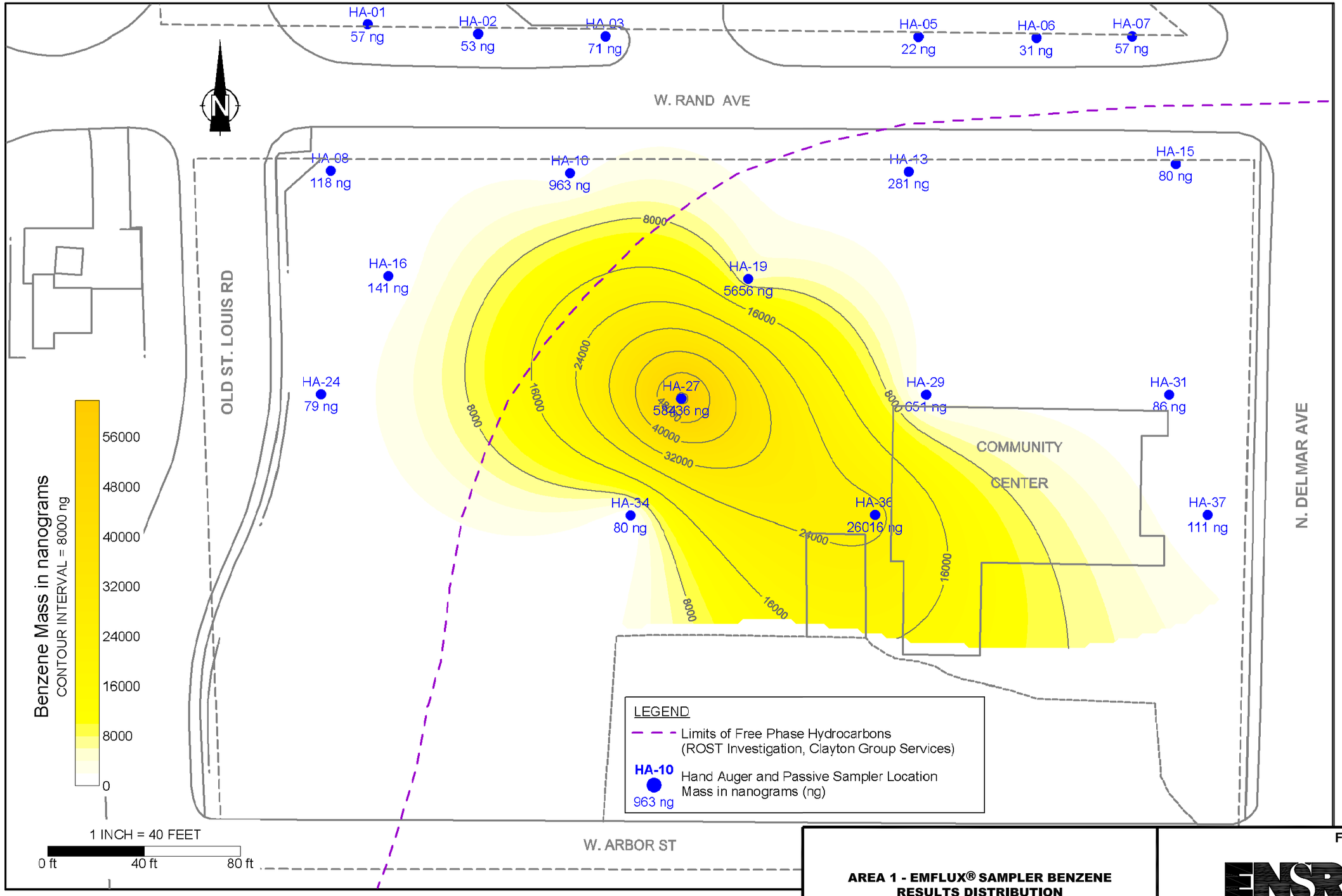
U:\Cad_Drive\01000-01999\10051093\CSM Report\Appendix Figures\01005-093_Fig 2_Gore-Sorber Benzene Results.dwg



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AREA 1 - EMFLUX® SAMPLER BENZENE RESULTS DISTRIBUTION
HARTFORD, ILLINOIS

FIGURE 3

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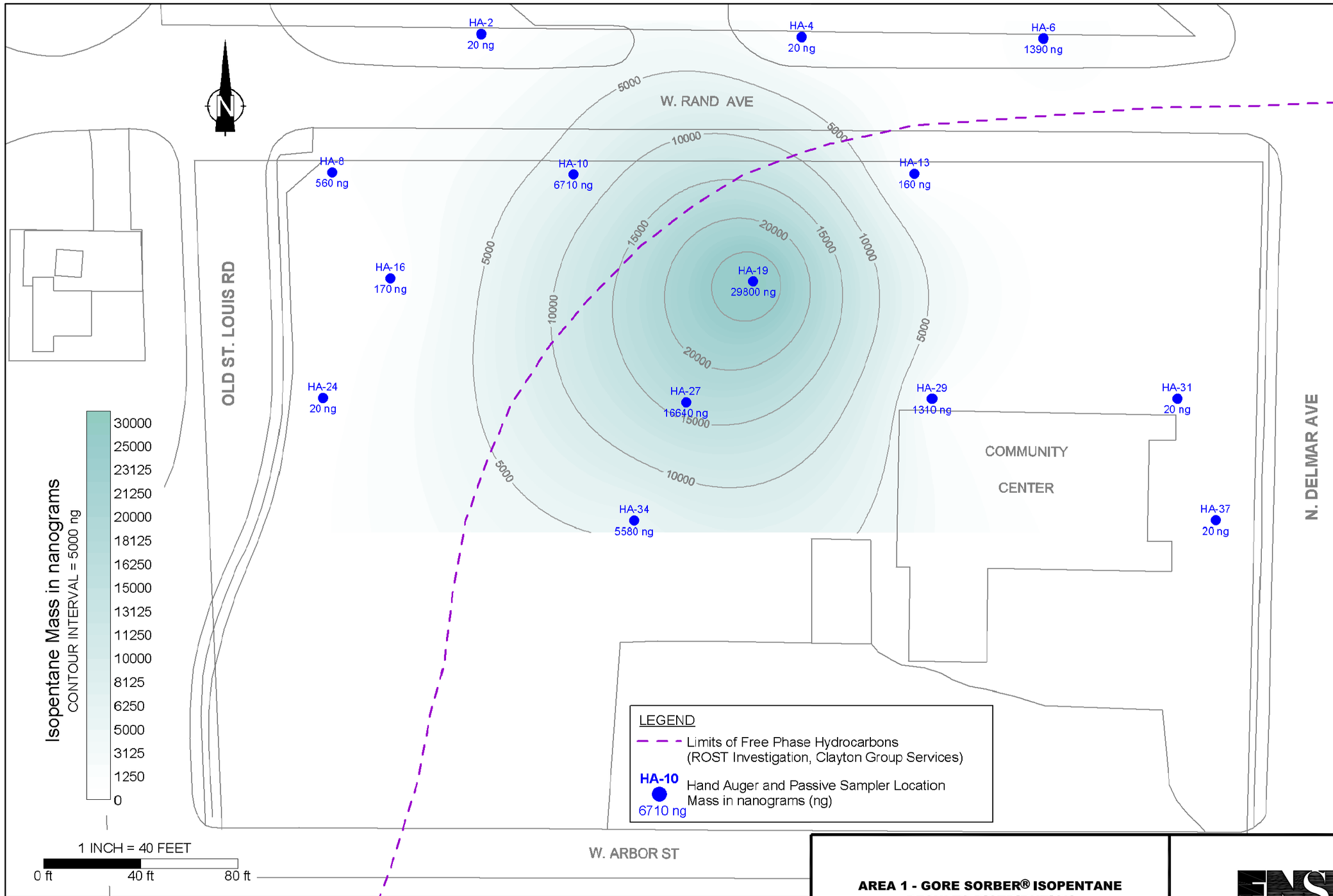
U:\Cad_Drive\01000-01999\1005\093\CSM Report\Appendix Figures\01005-093_Fig 3_Emflux Sampler Benzene Results.dwg



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AREA 1 - GORE SORBER® ISOPENTANE RESULTS DISTRIBUTION
HARTFORD, ILLINOIS

FIGURE 4

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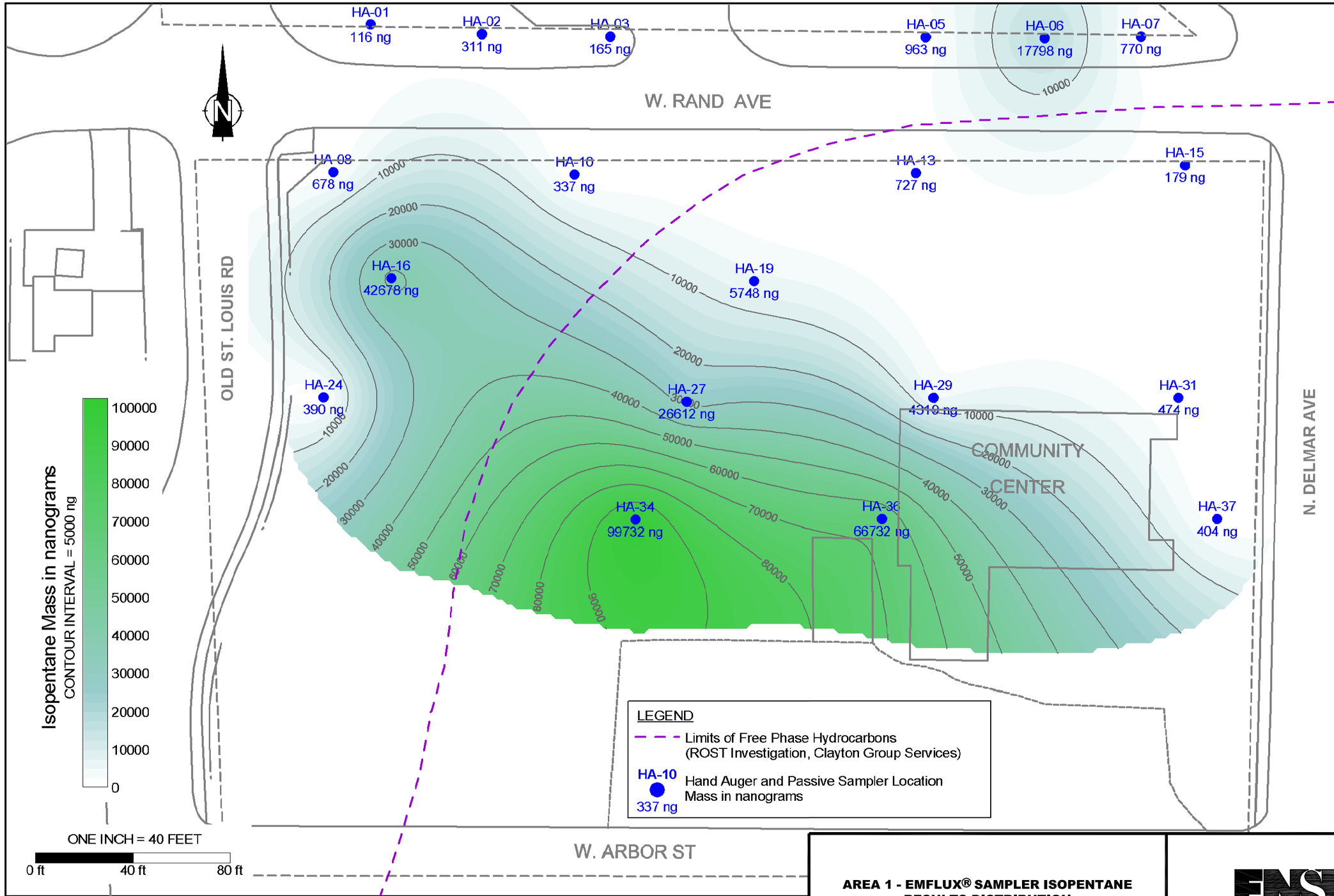
U:\Cad_Drive\01000-01999\1005\093\CSM Report\Appendix Figures\01005-093_Fig 4_Gore-Sorber Isopentane Results.dwg



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AREA 1 - EMFLUX® SAMPLER ISOPENTANE RESULTS DISTRIBUTION
HARTFORD, ILLINOIS

FIGURE 5

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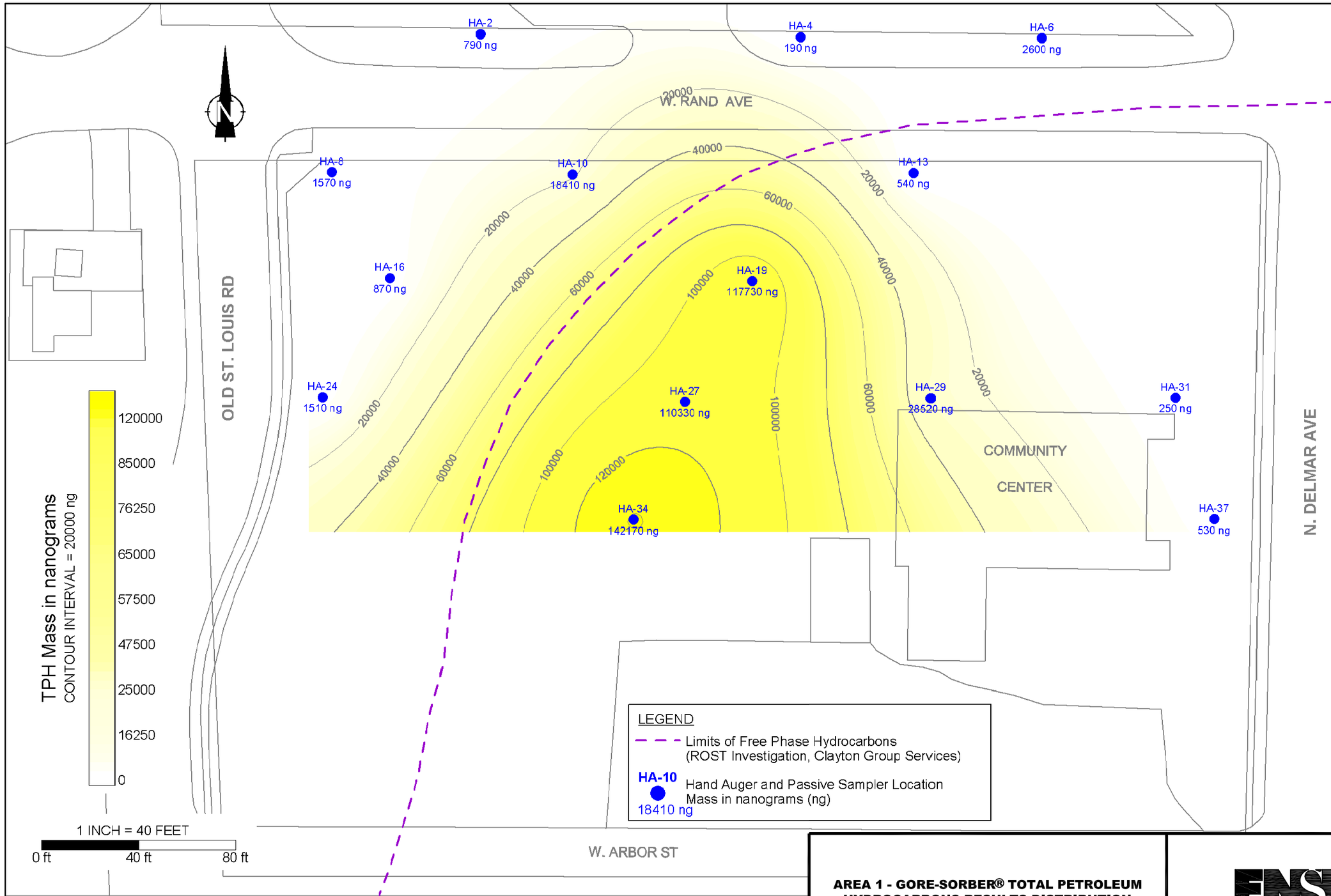
U:\Cad_Drive\01000-01999\1005093\CSM Report\Appendix Figures\01005-093_Fig 5_Emflux Sampler Isopentane Results.dwg



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AREA 1 - GORE-SORBER® TOTAL PETROLEUM HYDROCARBONS RESULTS DISTRIBUTION HARTFORD, ILLINOIS

FIGURE 6

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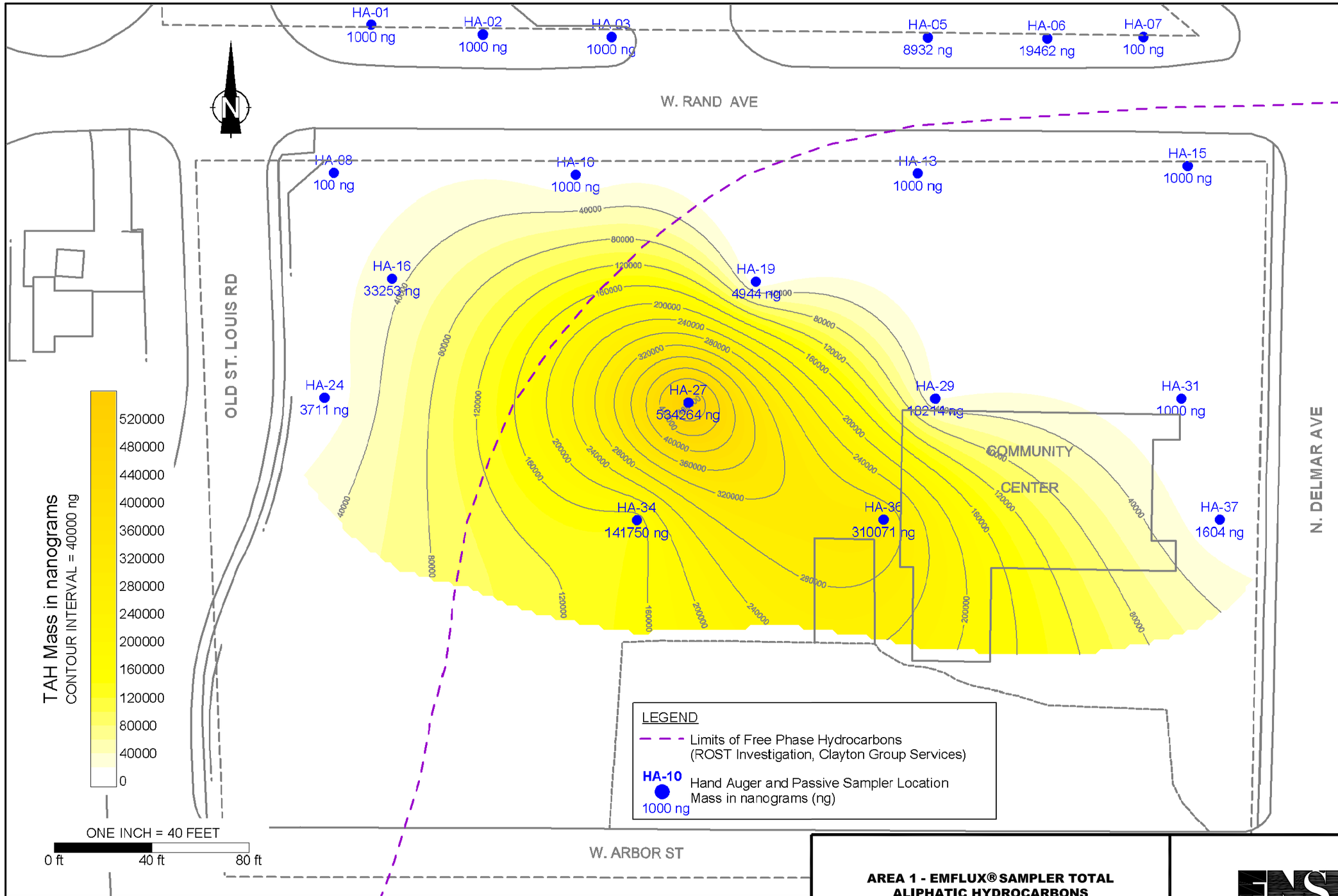
U:\Cad_Drive\01000-01999\1005093\CSM Report\Appendix Figures\01005-093_Fig 6_Gore-Sorber Total Petroleum Hydrocarbons Results.dwg



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AREA 1 - EMFLUX® SAMPLER TOTAL ALIPHATIC HYDROCARBONS RESULTS DISTRIBUTION HARTFORD, ILLINOIS

FIGURE 7

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U:\Cad_Drive\01000-01999\1005\093\CSM Report\Appendix Figures\01005-093_Fig 7_Emflux Sampler Aliphatic Results.dwg

Figure 8
Comparison of Gore and Emflux Benzene Data
Area 1 - Hartford Community Center
Hartford, IL

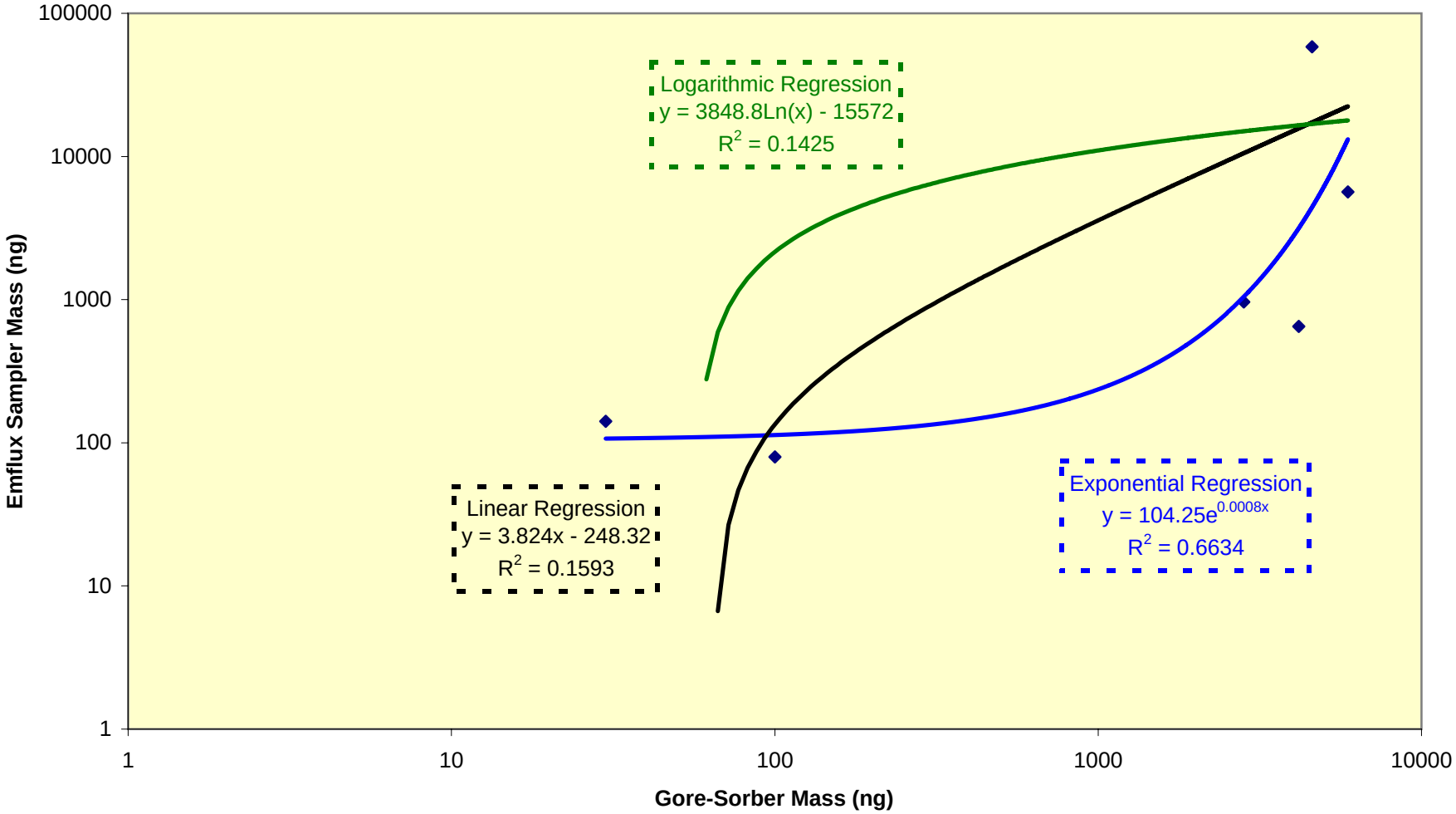


Figure 9
Comparison of Gore and Emflux Isopentane Data
Area 1 - Hartford Community Center
Hartford, IL

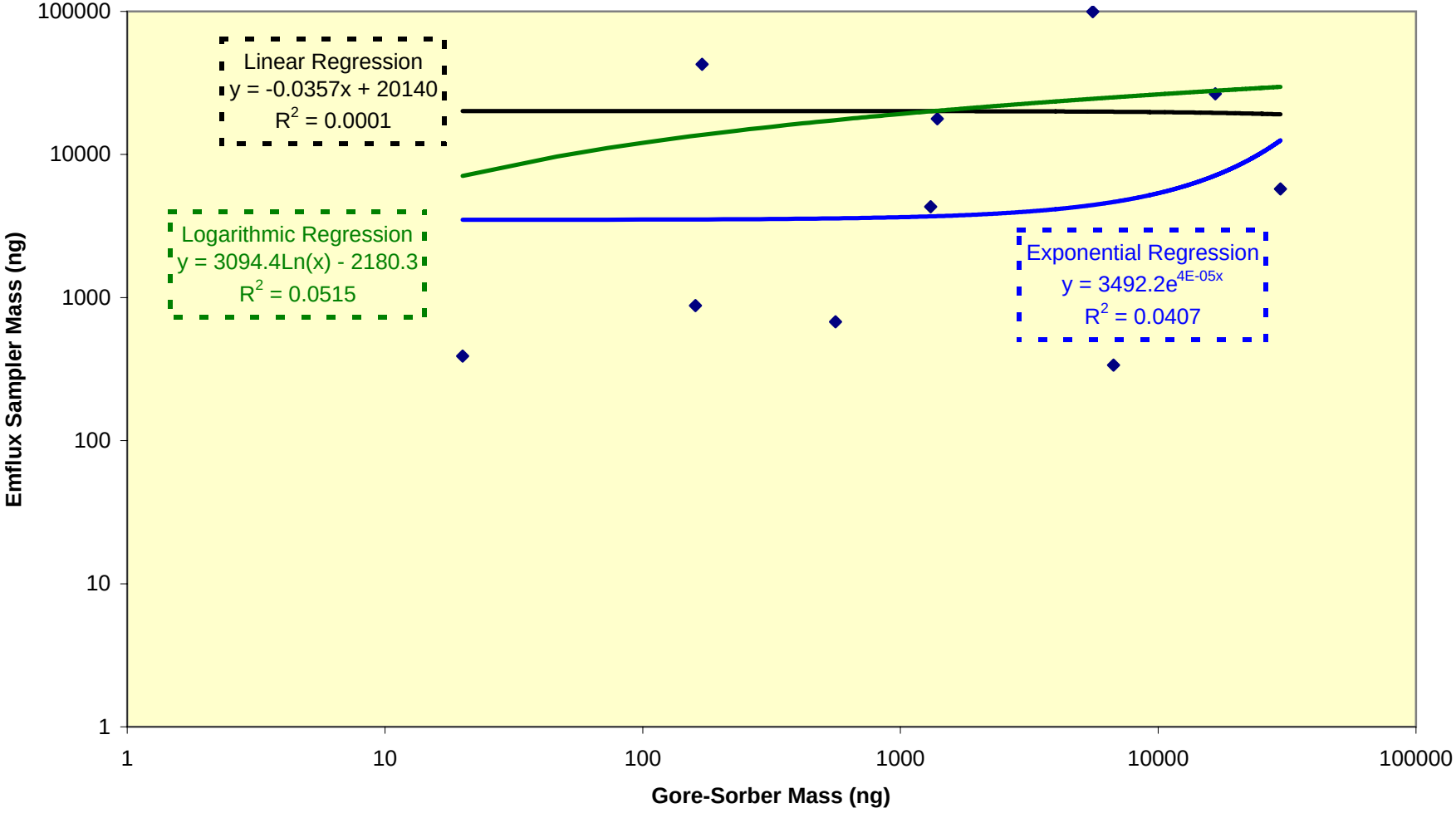
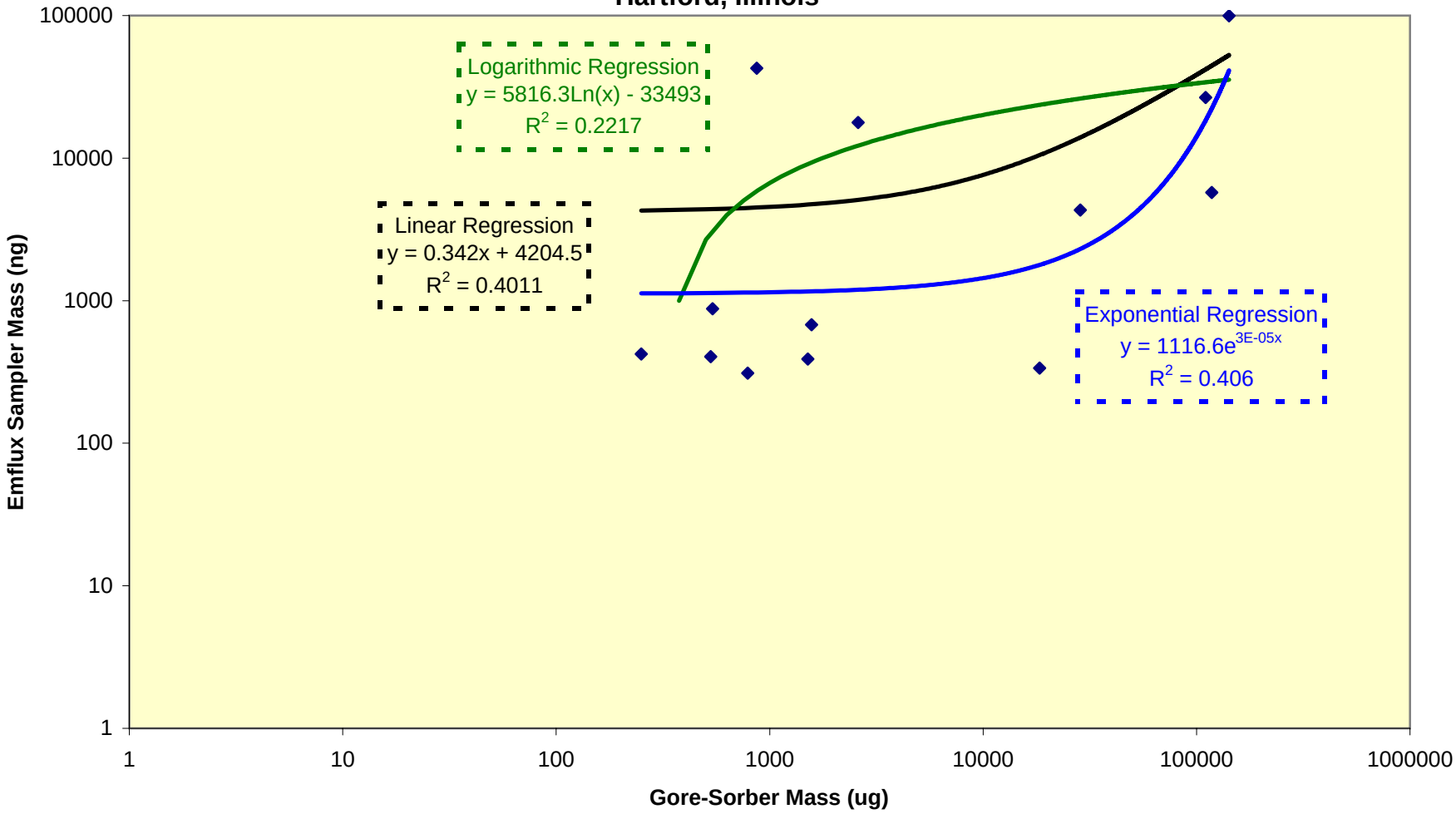
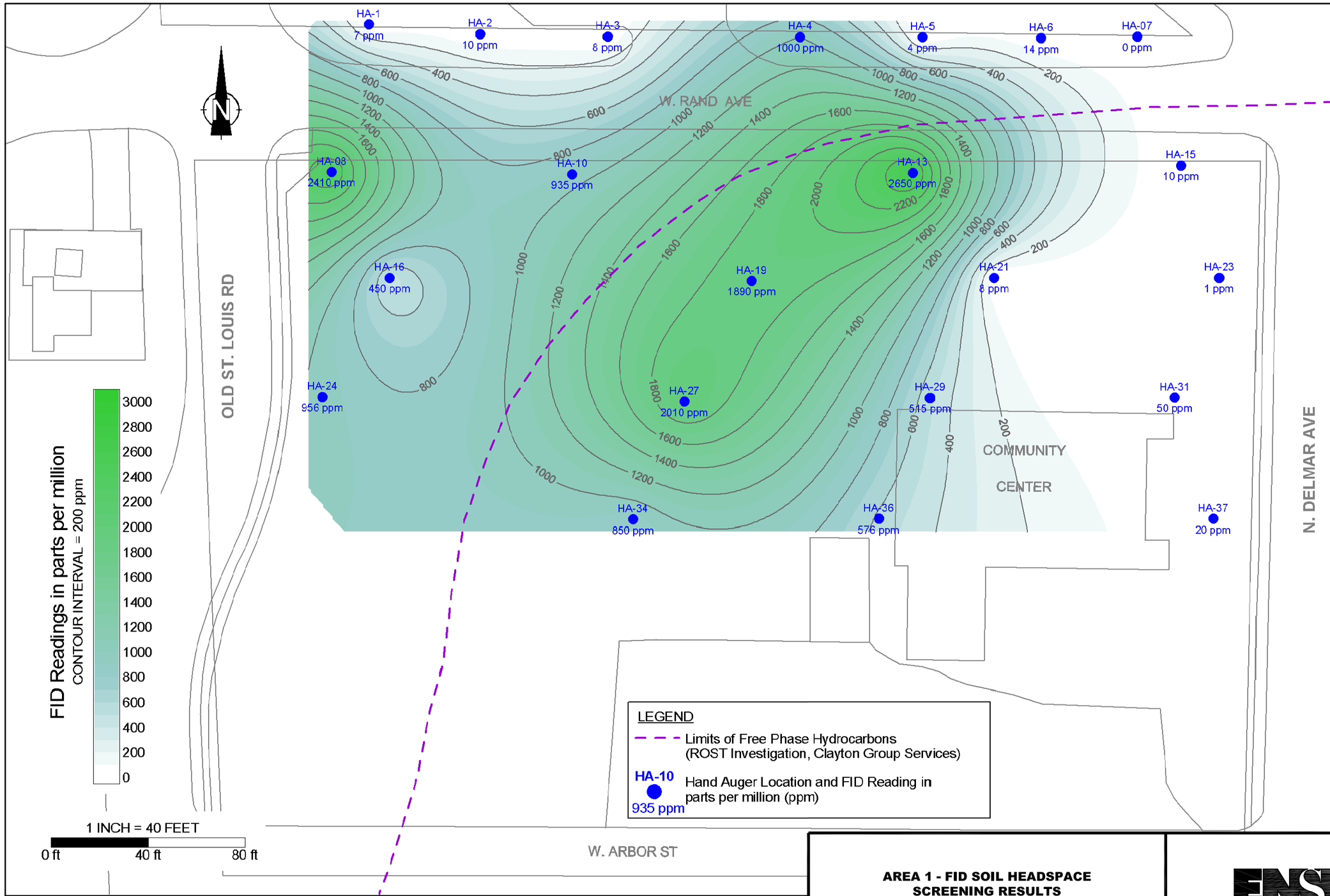


Figure 10
Comparison of Gore and Emflux Petroleum Hydrocarbon Results
Area 1- Hartford Community Center
Hartford, Illinois





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AREA 1 - FID SOIL HEADSPACE SCREENING RESULTS RESULTS DISTRIBUTION HARTFORD, ILLINOIS

FIGURE 11

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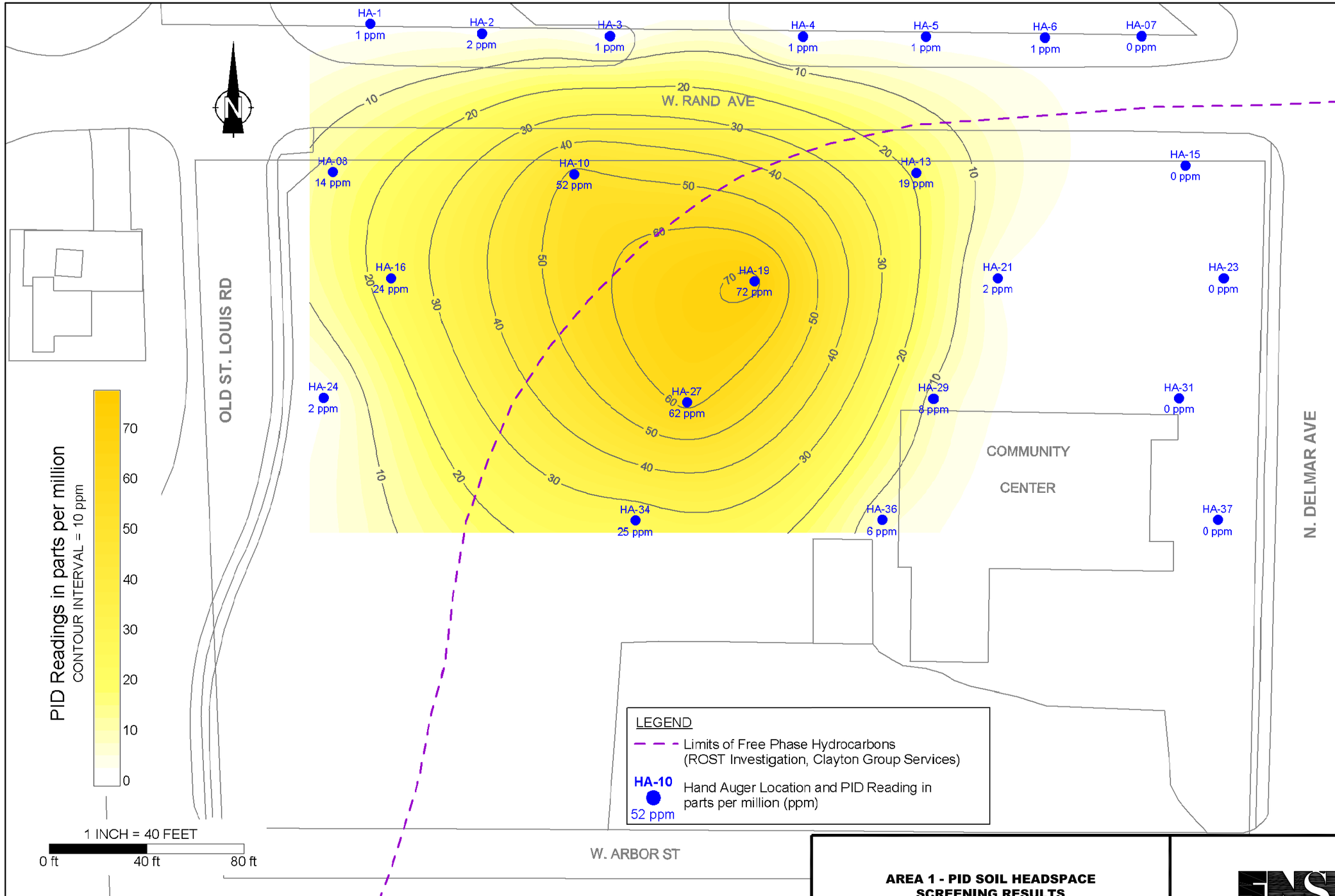

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AREA 1 - PID SOIL HEADSPACE SCREENING RESULTS
RESULTS DISTRIBUTION
HARTFORD, ILLINOIS

FIGURE 12

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U:\Cad_Drive\01000-01999\1005\093\CSM Report\Appendix Figures\01005-093_Fig 12_PID Soil Headspace Screening Results.dwg

Figure 13
Comparison of FID Soil Screening and Gore-Sorber Petroleum Hydrocarbon Results
Hartford Community Center
Hartford, IL

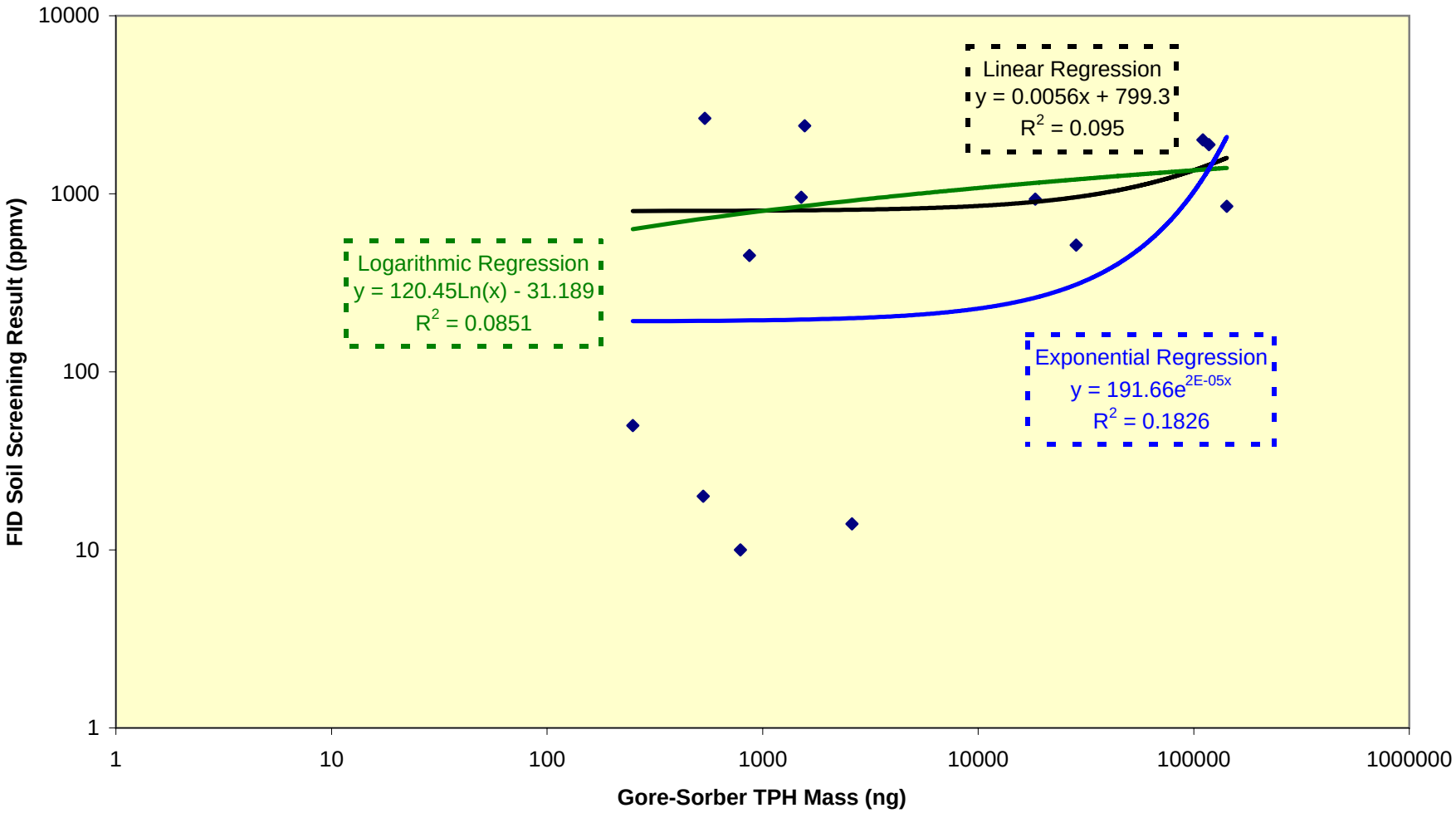


Figure 14
Comparison of FID Soil Screening and Emflux Hydrocarbon Results
Hartford Community Center
Hartford, Illinois

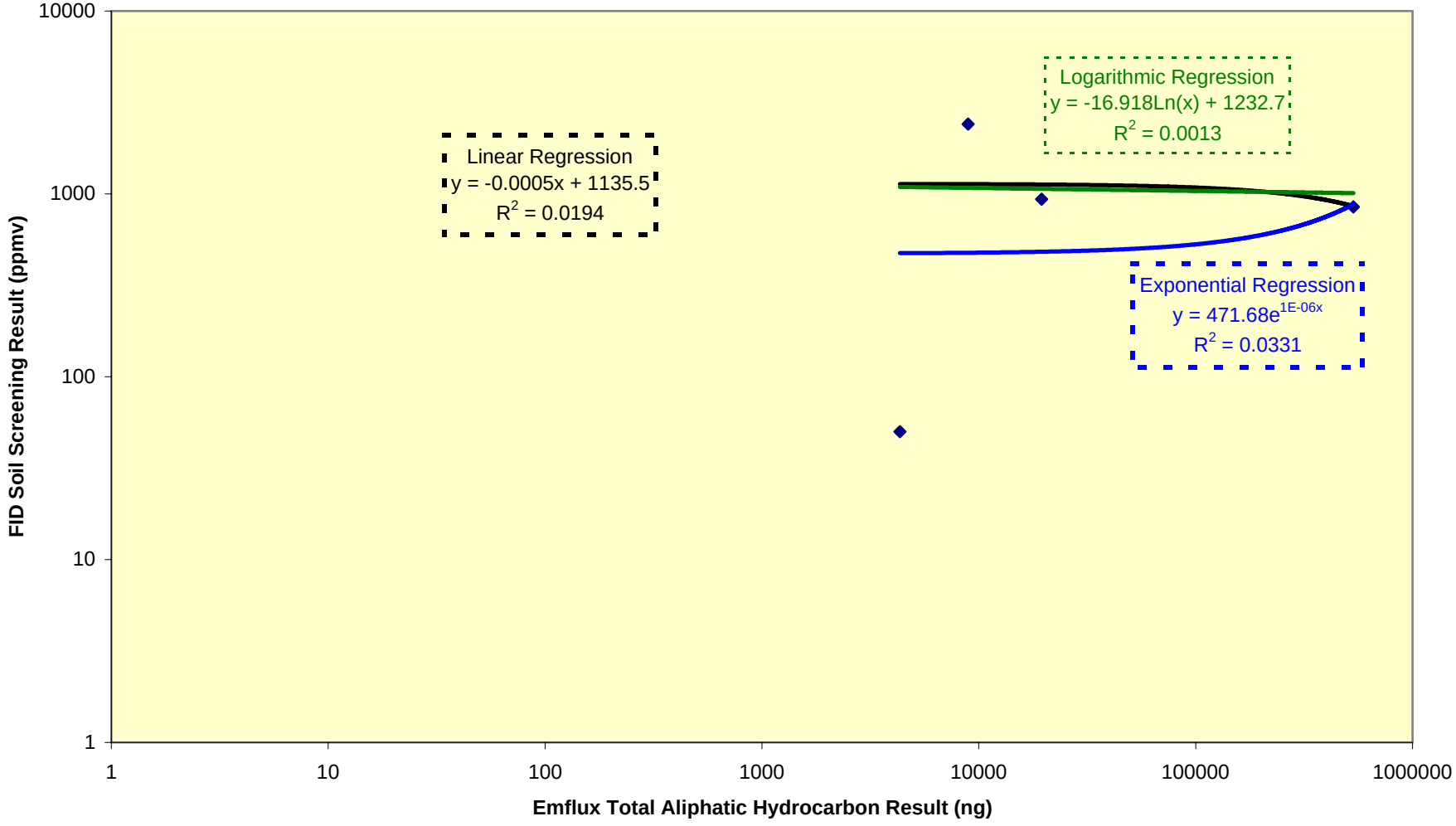


Figure 15
Comparison of Gore-Sorber Benzene and PID Soil Screening Data
Hartford Community Center
Hartford, Illinois

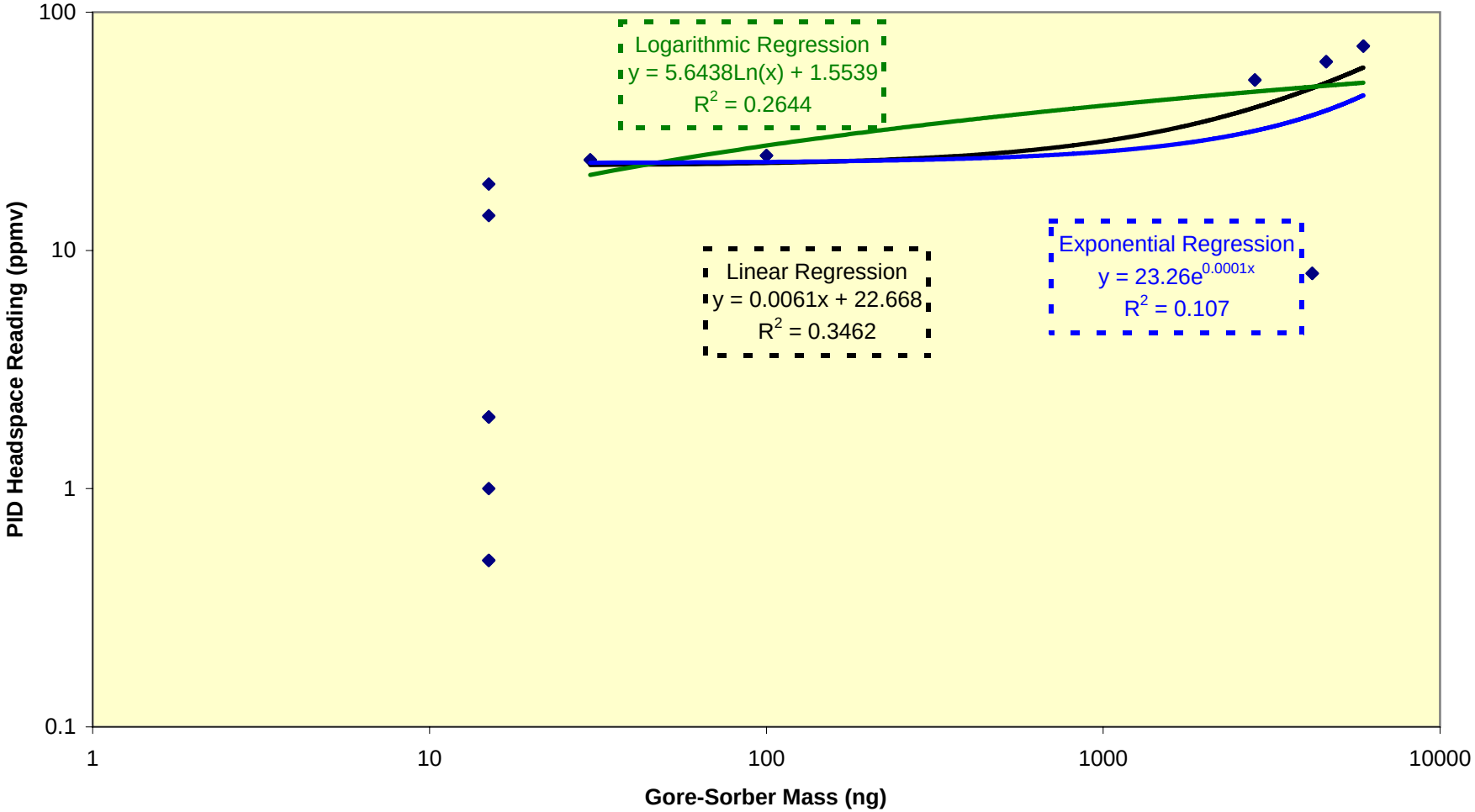
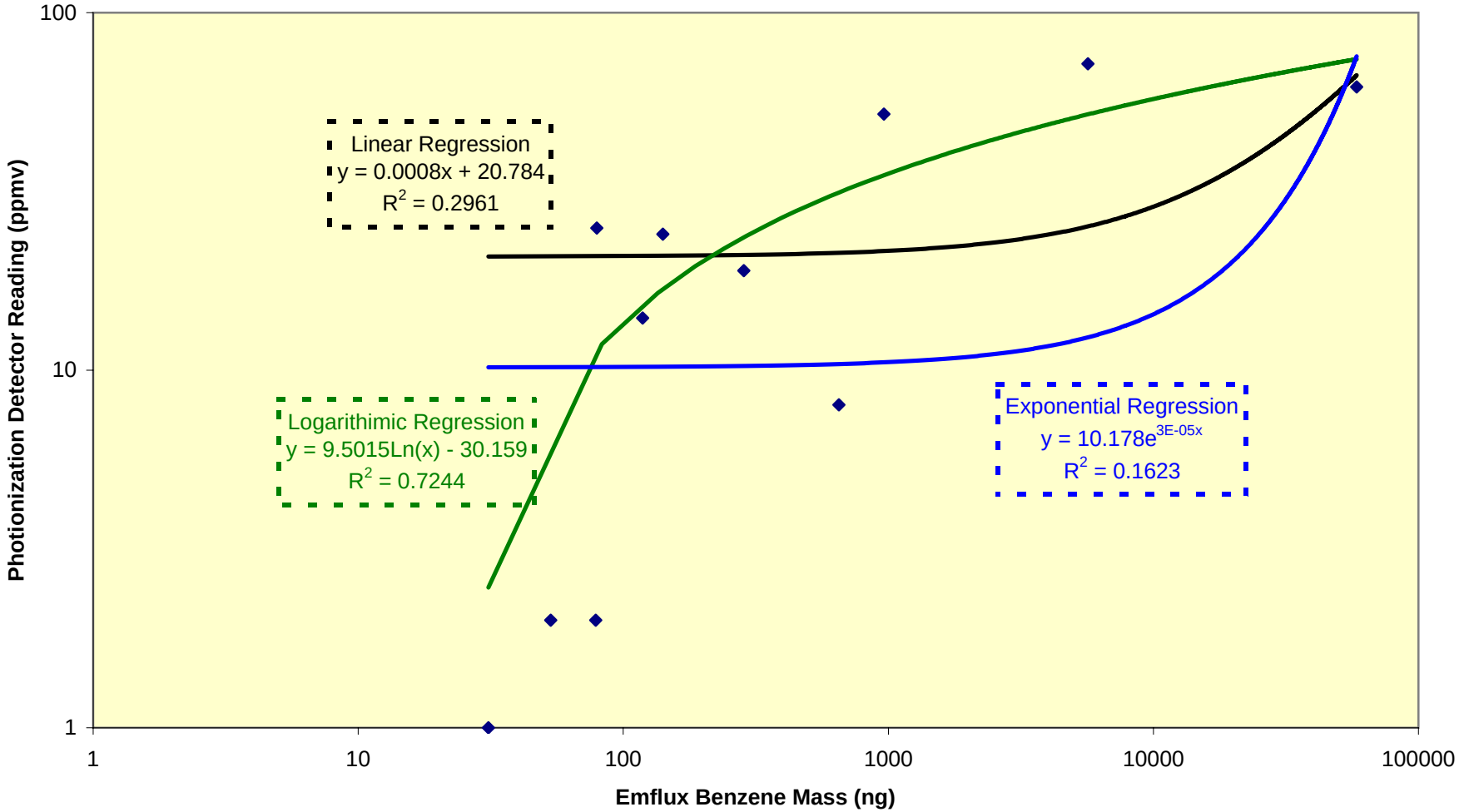
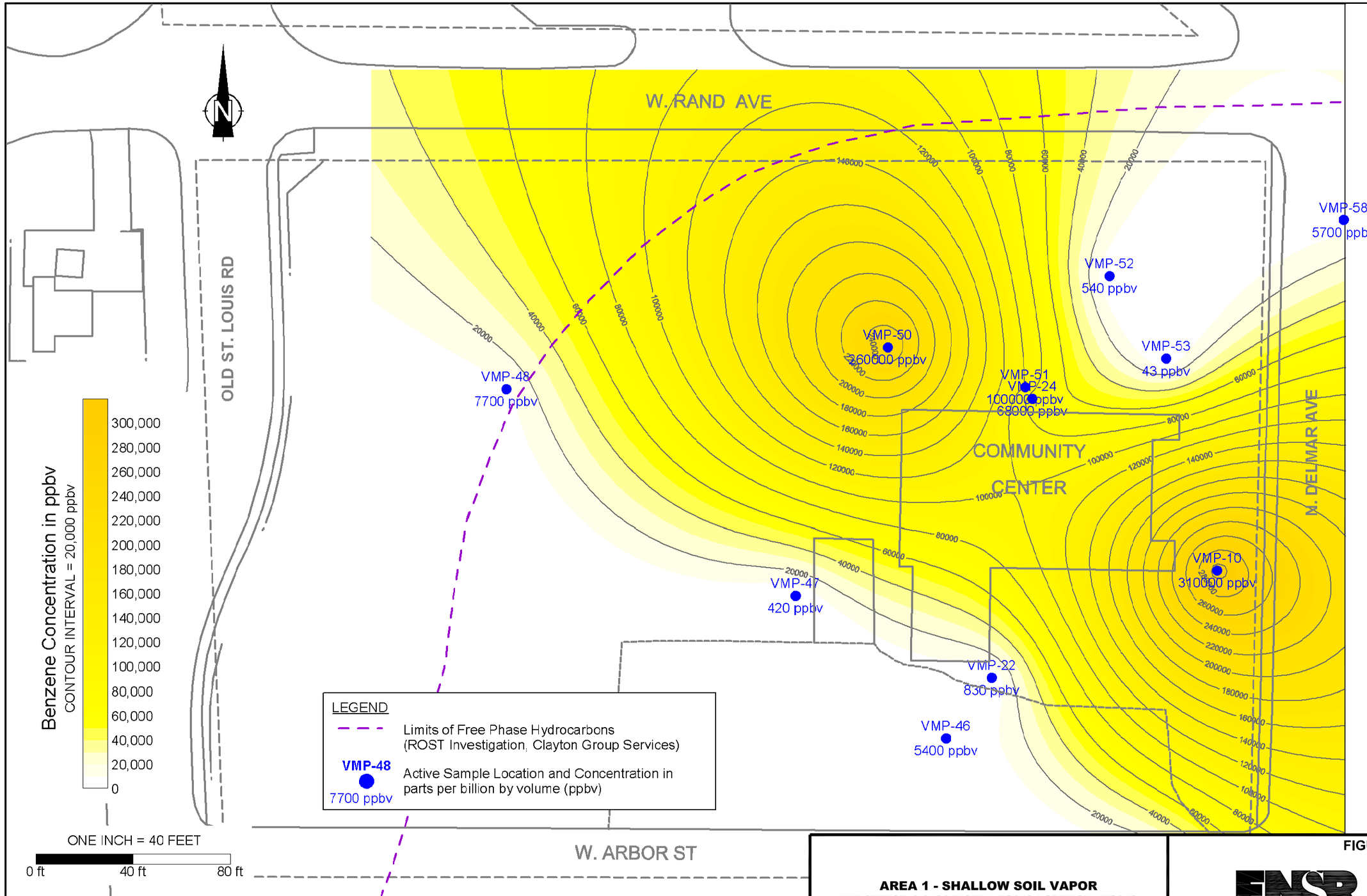


Figure 16
Comparison of Emflux Benzene Data and PID Soil Screening Data
Hartford Community Center
Hartford, IL





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AREA 1 - SHALLOW SOIL VAPOR BENZENE CONCENTRATION DISTRIBUTION HARTFORD, ILLINOIS

FIGURE 17

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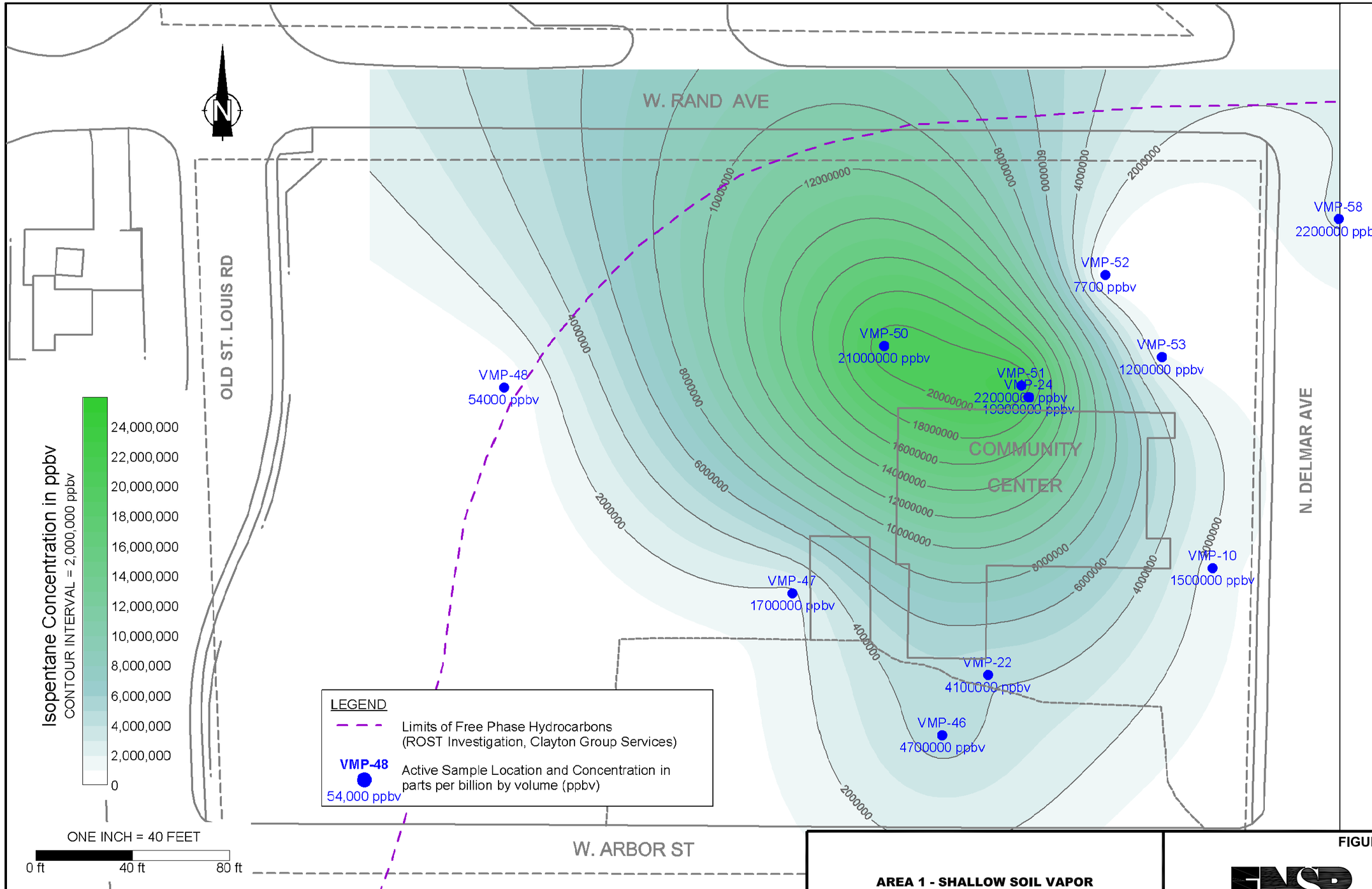
U:\Cad_Drive\01000-01999\1005\093\CSM Report\Appendix Figures\01005-093_Fig 17_Shallow Soil Vapor Benzene Results.dwg



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AREA 1 - SHALLOW SOIL VAPOR
ISOPENTANE CONCENTRATION DISTRIBUTION
HARTFORD, ILLINOIS

FIGURE 18

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U:\Cad_Drive\01000-01999\1005\093\CSM Report\Appendix Figures\01005-093_Fig 18_Shallow Soil Vapor Isopentane Results.dwg

APPENDIX I

AREA 2 PASSIVE SAMPLER TECHNICAL MEMORANDUM

Technical Memorandum

To:	Steve Faryan/USEPA Kevin Turner/USEPA	**Date:**	March 7, 2005
From:	Ralph Feeney/ENSR Dan Groher/ENSR Dave Schumacher/ENSR	**File:**	01005-093-351
RE:	Hartford Area Hydrocarbon Plume Site - Area 2 Passive Soil Vapor Sample Results	**CC:**	Chris Cahnovsky/IEPA Jim Moore/IEPA Tom Binz/TTEMI Robert Howe/TTEMI J. Wigger/Atlantic Richfield T. Mroz/Premcor H. Hand/Shell M. Lahvis/Shell K. Jurish/ERM R. Veenstra/URS J. Petruccione/ENSR R. Schilling/ENSR

ENSR has reviewed the passive soil gas data collected in January 2005. These data included results from paired Emflux® and Gore-Sorber® samplers installed in Area 2, which is as described in ENSR's CSM Investigation Work Plan (December, 2004) and later expanded, at the request of USEPA, to include transects along East Forest Street and a portion of North Market Street. Both samplers collect soil vapors passively but use different sorbents and subsequent analyses. These data were reviewed with the following objectives:

1. Effectiveness of the passive samplers as a screening tool to identify locations (e.g., where vapor plumes are present at shallow depths) that would be appropriate for the installation of permanent vapor monitoring points.
2. Correlation of the paired samples to compare the two samplers.
3. Evaluation and comparison of results along two transects that transition across areas of the site with varying subsurface conditions.
4. Comparison of the passive sampler data with samples collected from nearby active soil gas sampling stations.

Figure 1 shows selected passive soil gas data and their sample locations, along with nearby shallow vapor monitoring point (VMP) sample results from January 2005. Observations and recommendations regarding these data as they relate to the above-listed objectives follow.

Comparison of Emflux® and Gore-Sorber® Samples

Figures 2 and 3 show the correlation of the TPH and benzene values, respectively, from the two samplers. The figures present correlation coefficients for both linear and logarithmic fits of the data. Visually, the two methods do not appear to correlate well, and the correlation coefficients also indicate that the data are not well correlated. Similar correlations of these data, using only detected values (i.e., removing non-detects) show similar lack of correlation (correlation not shown). Inspection of the data indicates that the samplers tend to agree when the concentrations are very low or non-detect.

Comparison of results along two transects along North Market Street and East Forest Street

Figure 4 presents the Gore-Sorber® and Emflux® benzene data, plotted as a transect along North Market Street. As shown in this figure, the Gore-Sorber® results indicate that more benzene was detected at the transect's north end, near East Elm Street. South of East Forest Street, the concentrations are either low or non-detect. The Emflux® results show a similar trend, with the highest detected concentrations in the most northern samples. However, the range of the Emflux® data varies far less than the Gore-Sorber® data. The largest result for the Emflux® data is less than four times the detection limit (77 ng compared to a detection limit of 20 ng); while the Gore-Sorber® sorbers have results in the northern-most samples over three orders-of-magnitude greater than the detection limit. These data indicate that the Gore-Sorber® samples are more sensitive to benzene than the Emflux® samplers used in this study.

Figure 4 also plots five shallow VMP sample results. These data confirm that the highest benzene vapor concentrations along the transect were detected near the North Market and East Elm Streets intersection. The VMP data show a similar trend as the passive data, in that the benzene concentrations decrease toward the transect's southern end. However, the passive samplers did not detect elevated benzene levels near vapor monitoring points VMP-74 and VMP-80, where benzene was detected at 32,000 and 14,000 ug/m^3, respectively. Figure 4 also presents photoionization detector (PID) data from headspace screening of soil samples collected from the screened interval of each Emflux® vapor sampling point. PID headspace screening data obtained during installation of GP-20 and GP-16, similarly underrepresented concentrations detected at nearby vapor monitoring points VMP-74 and VMP-80.

Figure 5 presents the TPH data for the same passive sampler results along the North Market Street transect. These data show a similar, though less consistent, trend as the benzene data, with the lowest concentrations near the southern end of the transect. Figure 5 also depicts VMP isopentane data as a surrogate for TPH,because TPH was not measured for the VMP samples. Figure 5 shows that there is not strong agreement between the passive sample TPH results and the VMP sample isopentane results. The Gore-Sorber® TPH results visually correlate better to the VMP isopentane data (see especially VMP-80/GP-16) than the Emflux® results and are elevated near the two VMP locations where isopentane concentrations are highest, but otherwise, the passive data do not correlate well with the VMP data.. PID soil screening data obtained during installation were similar to Emflux® results, in that they underpredicted concentrations near VMP-80 and VMP-74.

Figures 6 and 7 present the passive benzene and TPH data respectively for the samplers installed along East Forest Street. These data show a fairly consistent trend of the relatively high benzene levels on the eastern end of the transect near North Olive Street, the location of shallow source material, and relatively high concentrations at GP-12, near the intersection with North Market Street, where the Main Sand is relatively shallow. The data for the middle of the transect, where there is no known shallow source material, are less consistent The benzene measurements within the middle of the transect are relatively low for both the Gore-Sorber® and Emflux® samplers, indicating that there may not be any sources there. The Emflux® TPH data demonstrate a similar pattern of low mass values in the center of the transect, whereas the Gore-Sorber® results are not as consistently

low in the center compared to the eastern and western ends. PID data are consistent with the passive sampler benzene results and are likewise generally similar to the Emflux® TPH results. Since there are few active samples along this transect for comparison, it is difficult to assess which method, Gore-Sorber® or Emflux® , provides more accurate data regarding soil vapor concentrations in the area.

To further evaluate the relative utility of using the passive samplers and PID soil screening results, the Gore-Sorber® TPH results and PID screening results for the North Market and East Forest Street transects are plotted on linear scales in Figures 8 and 9, respectively. The trends indicated by the PID results are generally the same as the trends indicated by the Gore-Sorber® TPH results for both transects. These data indicate that PID soil screening may be as useful as the passive samplers to survey areas where there is otherwise little or no soil vapor data.

Comparison of Passive Samples with Active Soil Gas Samples

Eight of the passive soil gas samples were installed near active soil gas samples (the shallowest sample depths for each multi-level VMP). The results of these samples were compared to assess how well the passive sampler results reflect the concentrations observed in the more representative active samplers. (Active samplers are more representative of subsurface conditions due to much greater control over size and duration of sample collection.) Figure 10 shows a correlation of the Gore-Sorber® benzene data and the associated VMP sample locations, and Figure 11 shows a correlation of the Gore-Sorber® TPH data and the associated VMP isopentane data at nearby sample locations. The two methods do appear to correlate somewhat on a logarithmic scale (R-squared correlation coefficients between 0.69 and 0.74). Figure 12 shows the benzene graphically, with the associated Emflux® data as well. This figure shows that while the three datasets sometimes co-vary, there are false negatives in the passive sampler dataset, and the passive sampler data do not provide a better indication of subsurface conditions than PID soil screening data.

Conclusions/Recommendations

1. The results of the passive soil gas samples indicate that the Gore-Sorber® are more sensitive for benzene and may potentially be more accurate than the Emflux® samplers used in the study, based on comparisons to nearby VMP data.

2. The north-south transect of passive soil gas samples (both Gore-Sorber® and Emflux®) along North Market Street appear to accurately indicate when a sample is outside of the plume (i.e., non-detect for benzene and low TPH values in buffer zone areas). However, passive samples along the transect were also non-detect for benzene where an active sample indicated that significant benzene was present. Thus, the passive samples may provide false negative results for benzene.

3. PID screening values of soil samples collected from the passive sampler locations provide similar results as the passive sampler results, indicating that field headspace screening measurements may be as useful as the passive samplers for selecting locations with elevated TPH and benzene concentrations. In addition, PID headspace screening has the advantage of providing more immediate data that can be used to direct active sampler installation.

4. While the passive soil sampler results do somewhat correlate with VMP data, the passive samplers do not consistently reflect the soil gas concentrations detected at VMP locations using discrete active sampling methods. While passive sampler results (particularly the Gore Sorber results) in areas where concentrations are greatest are generally correlated to VMP data, other areas with elevated concentrations were not reflected by the passive sampler data. PID screening results were similarly

correlated. These correlations in the zones of highest concentrations coupled with the lack of correlation in slightly less-impacted areas suggest two possible shortcomings of the passive samplers. Either the passive samplers are insufficiently sensitive to benzene to detect concentrations between 10,000 and 30,000 ug/m^3, or the passive sampler results in zones of highest concentrations are merely indicative of localized soil impacts but the passive sampling techniques are unable to accurately characterize soil vapor concentrations in the heterogeneous, low-permeability subsurface at the site.

5. Before proceeding further with these samplers, it would be better to understand whether the active sampler network within the study area is sufficient to monitor vapor concentrations. Statistical and graphical analyses of VMP sampling data using EVS software is being performed to understand the sufficiency of the sampling network and to evaluate locations where additional sampling data may be necessary.

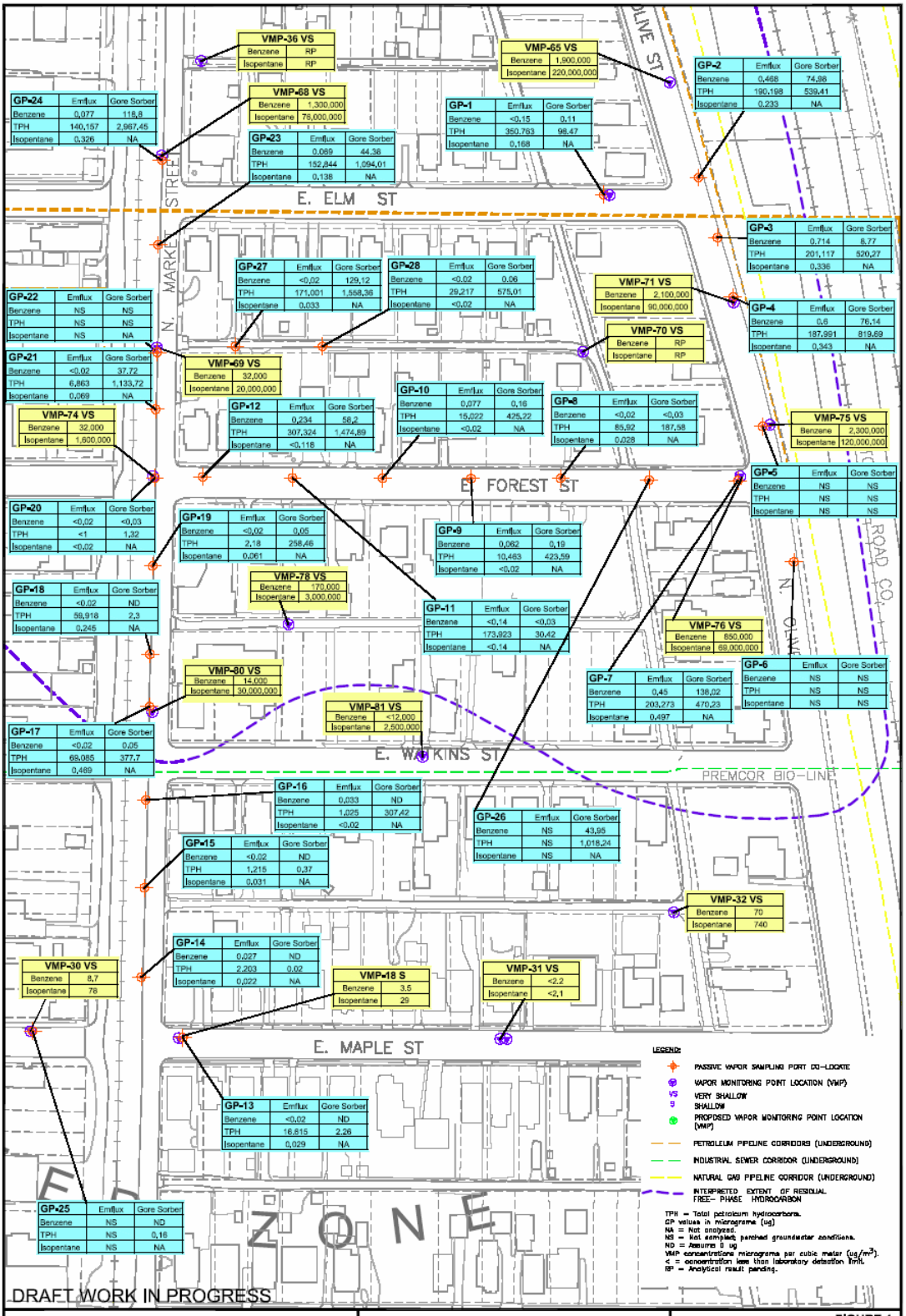

VMP-36 VS
Benzene RP
Isopentane RP
VMP-65 VS
Benzene 1,900,000
Isopentane 220,000,000
VMP-68 VS
Benzene 1,300,000
Isopentane 78,000,000
GP-24 Emflux Gore Sorber
Benzene 0,077 118,8
TPH 140,157 2,967,45
Isopentane 0,326 NA
GP-23 Emflux Gore Sorber
Benzene 0,089 44,38
TPH 152,844 1,094,01
Isopentane 0,138 NA
GP-1 Emflux Gore Sorber
Benzene <0,15 0,11
TPH 350,763 98,47
Isopentane 0,168 NA
GP-2 Emflux Gore Sorber
Benzene 0,468 74,88
TPH 190,198 539,41
Isopentane 0,233 NA
E. ELM ST
N. MARKET STREET
GP-3 Emflux Gore Sorber
Benzene 0,714 8,77
TPH 201,117 520,27
Isopentane 0,336 NA
GP-27 Emflux Gore Sorber
Benzene <0,02 129,12
TPH 171,001 1,588,36
Isopentane 0,033 NA
GP-28 Emflux Gore Sorber
Benzene <0,02 0,06
TPH 29,217 575,01
Isopentane <0,02 NA
VMP-71 VS
Benzene 2,100,000
Isopentane 90,000,000
GP-22 Emflux Gore Sorber
Benzene NS NS
TPH NS NS
Isopentane NS NA
GP-4 Emflux Gore Sorber
Benzene 0,6 76,14
TPH 187,991 819,69
Isopentane 0,343 NA
VMP-70 VS
Benzene RP
Isopentane RP
GP-21 Emflux Gore Sorber
Benzene <0,02 37,72
TPH 6,863 1,133,72
Isopentane 0,069 NA
VMP-69 VS
Benzene 32,000
Isopentane 20,000,000
GP-10 Emflux Gore Sorber
Benzene 0,077 0,16
TPH 15,022 425,22
Isopentane <0,02 NA
GP-8 Emflux Gore Sorber
Benzene <0,02 <0,03
TPH 85,92 187,58
Isopentane 0,028 NA
VMP-74 VS
Benzene 32,000
Isopentane 1,600,000
GP-12 Emflux Gore Sorber
Benzene 0,234 56,2
TPH 307,324 1,474,89
Isopentane <0,118 NA
VMP-75 VS
Benzene 2,300,000
Isopentane 120,000,000
E. FOREST ST
GP-5 Emflux Gore Sorber
Benzene NS NS
TPH NS NS
Isopentane NS NS
GP-20 Emflux Gore Sorber
Benzene <0,02 <0,03
TPH <1 1,32
Isopentane <0,02 NA
GP-19 Emflux Gore Sorber
Benzene <0,02 0,05
TPH 2,18 258,46
Isopentane 0,061 NA
GP-9 Emflux Gore Sorber
Benzene 0,062 0,19
TPH 10,463 423,59
Isopentane <0,02 NA
VMP-78 VS
Benzene 170,000
Isopentane 3,000,000
GP-18 Emflux Gore Sorber
Benzene <0,02 ND
TPH 59,918 2,3
Isopentane 0,245 NA
GP-11 Emflux Gore Sorber
Benzene <0,14 <0,03
TPH 173,923 30,42
Isopentane <0,14 NA
VMP-76 VS
Benzene 850,000
Isopentane 69,000,000
N. CLARK
GP-6 Emflux Gore Sorber
Benzene NS NS
TPH NS NS
Isopentane NS NS
VMP-80 VS
Benzene 14,000
Isopentane 30,000,000
GP-7 Emflux Gore Sorber
Benzene 0,45 138,02
TPH 203,273 470,23
Isopentane 0,497 NA
VMP-81 VS
Benzene <12,000
Isopentane 2,500,000
GP-17 Emflux Gore Sorber
Benzene <0,02 0,05
TPH 69,085 377,7
Isopentane 0,489 NA
E. WATKINS ST
PREMCOR BIO-LINE
GP-16 Emflux Gore Sorber
Benzene 0,033 ND
TPH 1,025 307,42
Isopentane <0,02 NA
GP-26 Emflux Gore Sorber
Benzene NS 43,95
TPH NS 1,018,24
Isopentane NS NA
GP-15 Emflux Gore Sorber
Benzene <0,02 ND
TPH 1,215 0,37
Isopentane 0,031 NA
VMP-32 VS
Benzene 70
Isopentane 740
GP-14 Emflux Gore Sorber
Benzene 0,027 ND
TPH 2,203 0,02
Isopentane 0,022 NA
VMP-30 VS
Benzene 8,7
Isopentane 78
VMP-18 S
Benzene 3,5
Isopentane 29
VMP-31 VS
Benzene <2,2
Isopentane <2,1
E. MAPLE ST
GP-13 Emflux Gore Sorber
Benzene <0,02 ND
TPH 16,815 2,26
Isopentane 0,029 NA
GP-25 Emflux Gore Sorber
Benzene NS ND
TPH NS 0,16
Isopentane NS NA
ZONE
LEGEND:
PASSIVE VAPOR SAMPLING PORT CO-LOCATE
VAPOR MONITORING POINT LOCATION (VMP)
VS VERY SHALLOW
S SHALLOW
PROPOSED VAPOR MONITORING POINT LOCATION (VMP)
PETROLEUM PIPELINE CORRIDORS (UNDERGROUND)
INDUSTRIAL SEWER CORRIDOR (UNDERGROUND)
NATURAL GAS PIPELINE CORRIDOR (UNDERGROUND)
INTERPRETED EXTENT OF RESIDUAL FREE- PHASE HYDROCARBON
TPH = Total petroleum hydrocarbons.
GP values in micrograms (ug)
NA = Not analyzed.
NS = Not sampled; perched groundwater conditions.
ND = Assumes 0 ug
VMP concentrations micrograms per cubic meter (ug/m3).
< = concentration less than laboratory detection limit.
RP = Analytical result pending.
DRAFT WORK IN PROGRESS
SCALE IN FEET
0 50 100 200
1" = 100'
N
DRAWN: JG
DATE: 2/5/05
PROJECT
APPROVED: JLP/DS
REVISED: 3/4/05
01005-093-351
AREA 2 - VERY SHALLOW (~ 5 ft SUBSURFACE)
PASSIVE AND ACTIVE SOIL VAPOR RESULTS
JANUARY 2005
THE HARTFORD AREA HYDROCARBON
PLUME SITE
THE HARTFORD WORKING GROUP
HARTFORD, IL
FIGURE 1
ENSR INTERNATIONAL
CONSULTING • ENGINEERING • REMEDIATION

Figure 2. Passive TPH Soil Vapor Values
Comparison of Paired EMFLUX and GORE Samples
The Hartford Working Group, Hartford, IL
Data Sampling/Analyses - January 2005

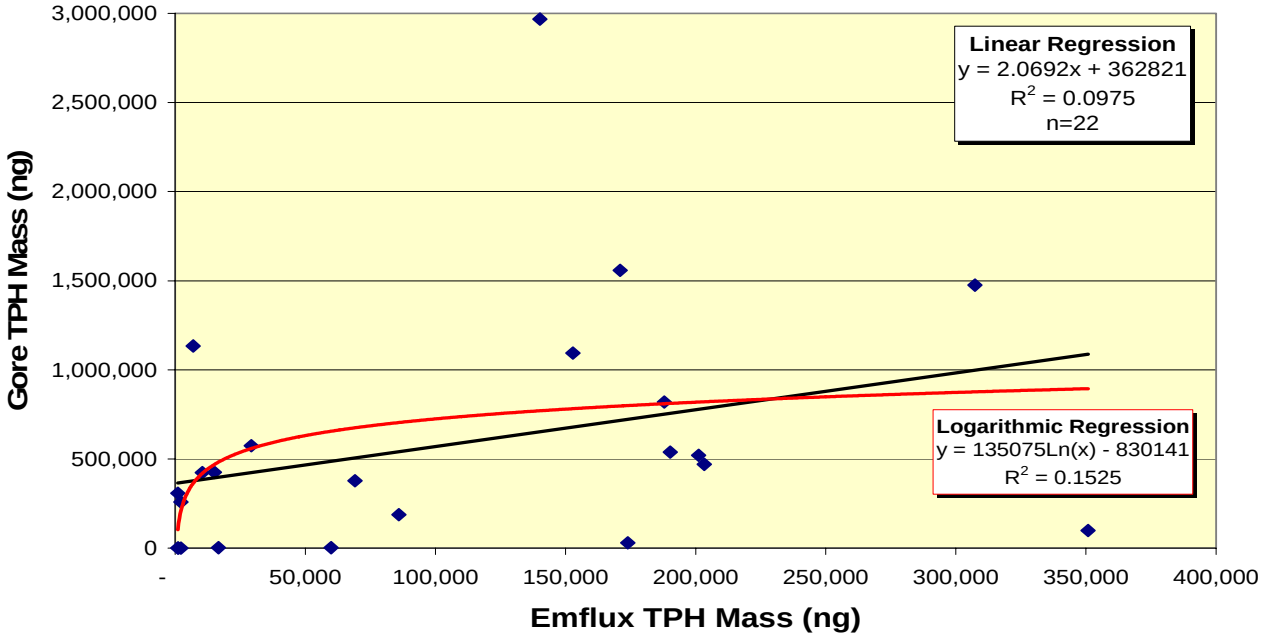


Figure 3. Passive Benzene Soil Vapor Values
Comparison of Paired EMFLUX and GORE Samples
The Hartford Working Group, Hartford, IL
Data Sampling/Analyses - January 2005

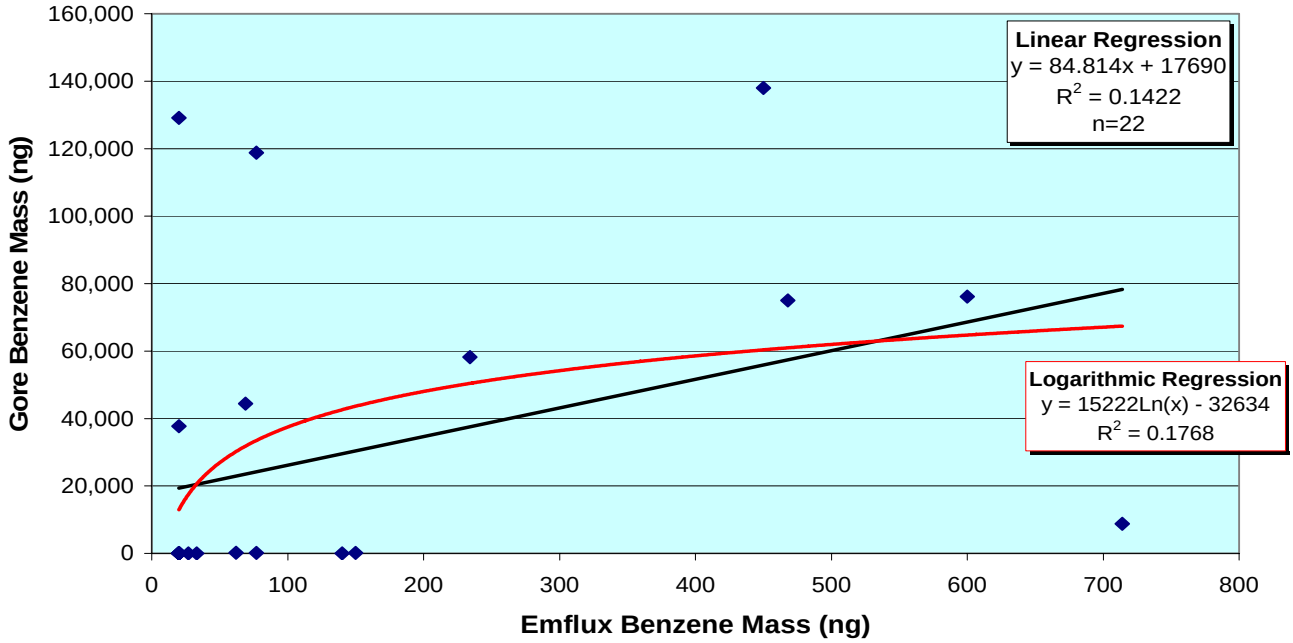


Figure 4. Passive and Active Benzene Soil Vapor Values - N. Market St.
The Hartford Working Group, Hartford, IL
Data Sampling/Analyses - January 2005

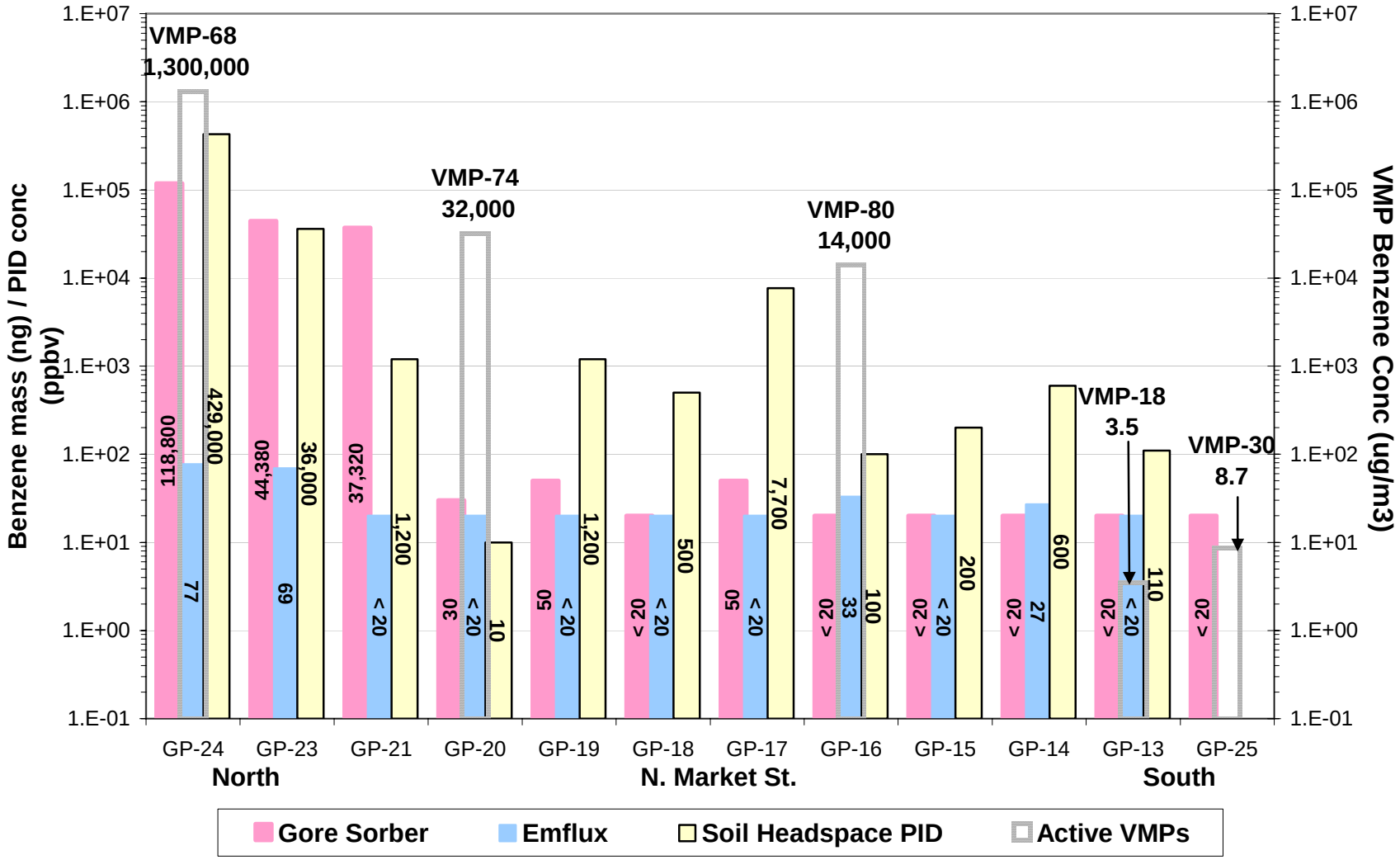


Figure 5. Passive and Active TPH Soil Vapor Values - N. Market St.
The Hartford Working Group, Hartford, IL
Data Sampling/Analyses - January 2005

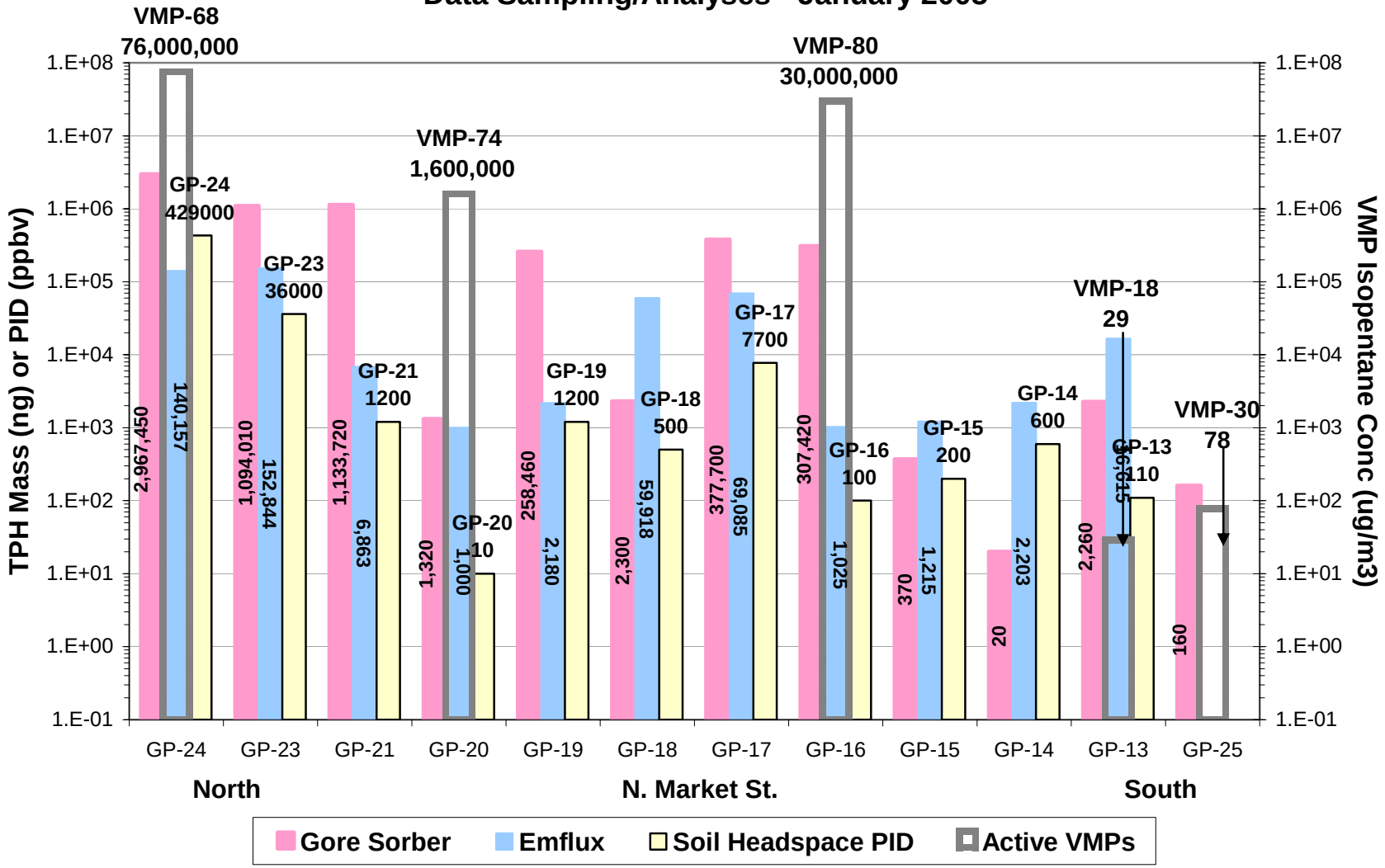


Figure 6. Passive Benzene Soil Vapor Values - E. Forest St.
The Hartford Area Hydrocarbon Plume Site
Data Sampling/Analyses - January 2005

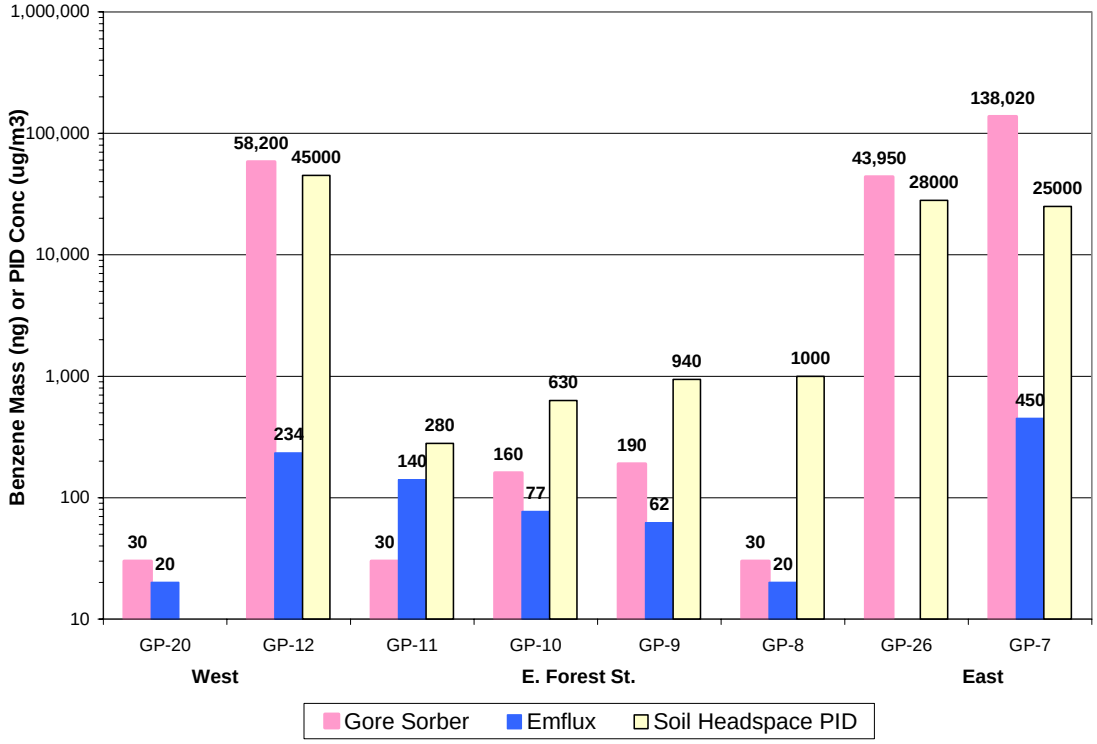


Figure 7. Passive Total Petroleum Hydrocarbon Soil Vapor Values - E. Forest St.
The Hartford Working Group, Hartford, IL
Data Sampling/Analyses - January 2005

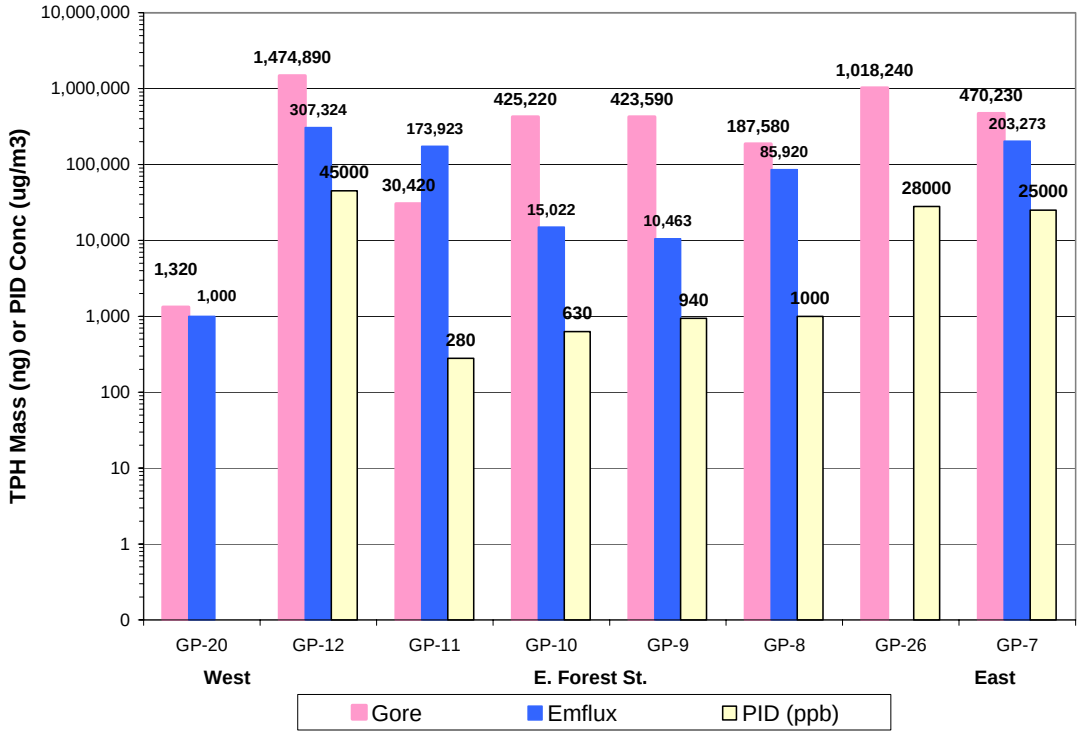


Figure 8. Gore Soil Vapor TPH Values vs. Soil Headspace PID - N. Market St.
The Hartford Working Group, Hartford, IL
Data Sampling/Analyses - January 2005

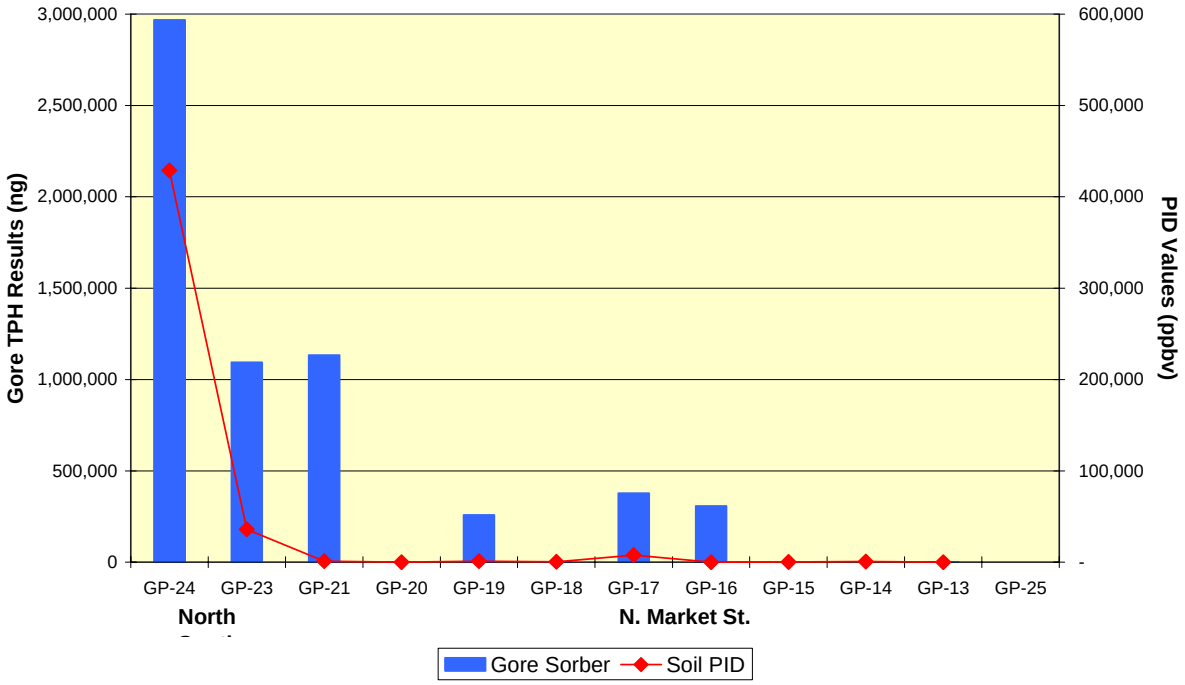


Figure 9. Gore TPH Soil Vapor Values and PID Readings - E. Forest St.
The Hartford Working Group, Hartford, IL
Data Sampling/Analyses - January 2005

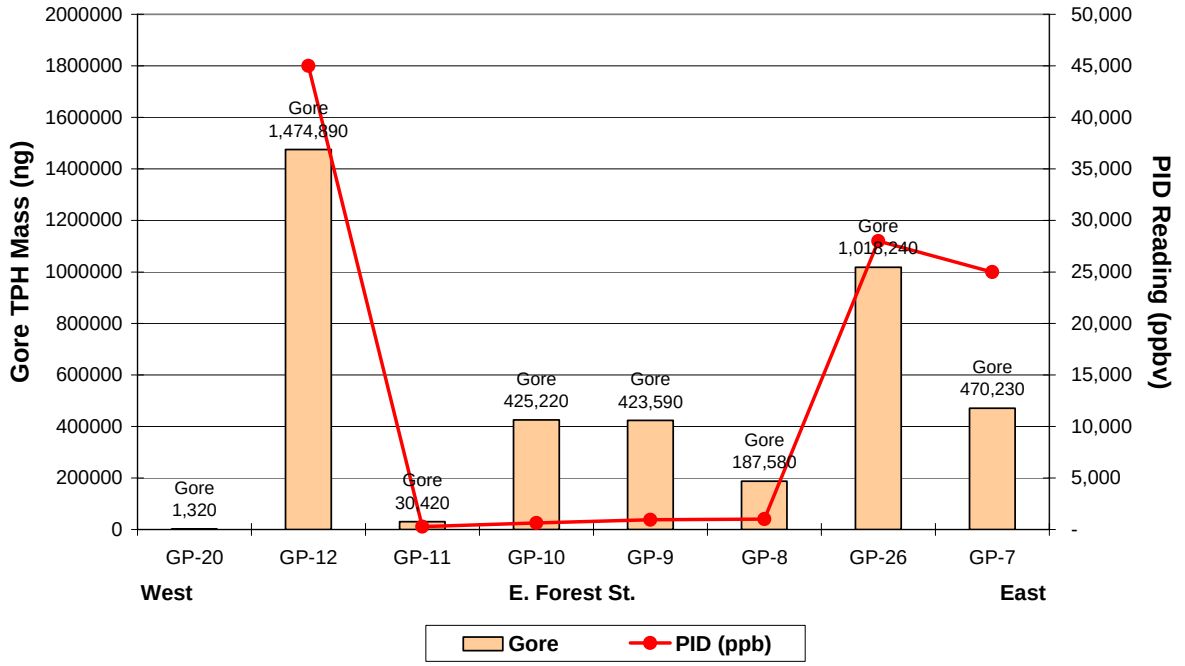


Figure 10. Passive vs. Active Benzene Soil Vapor Values
The Hartford Working Group, Hartford, IL
Sampling/Analyses - January 2005

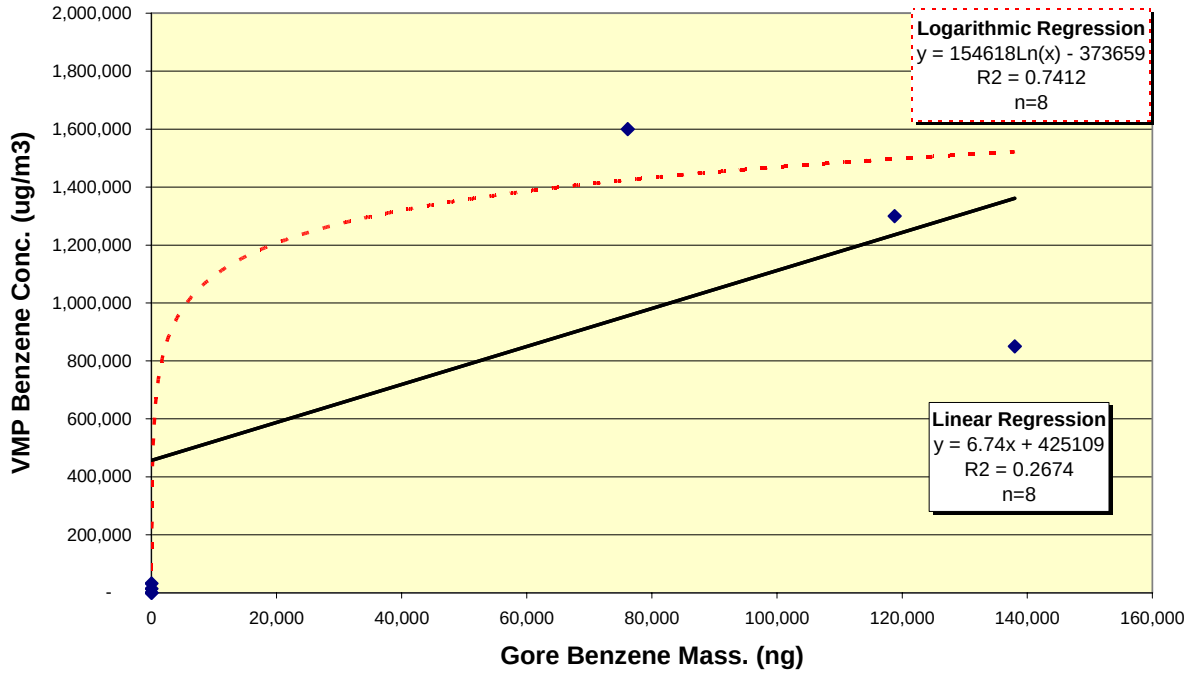


Figure 11. Gore TPH vs. Active Isopentane Soil Vapor Values
The Hartford Working Group, Hartford, IL
Sampling/Analyses - January 2005

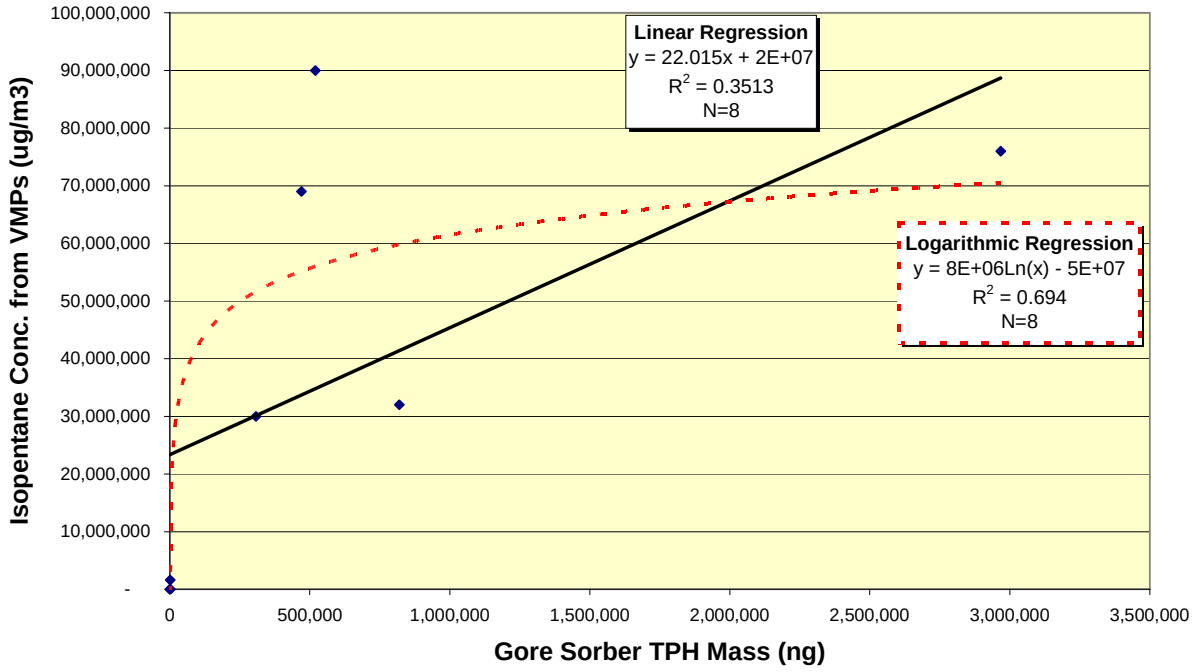
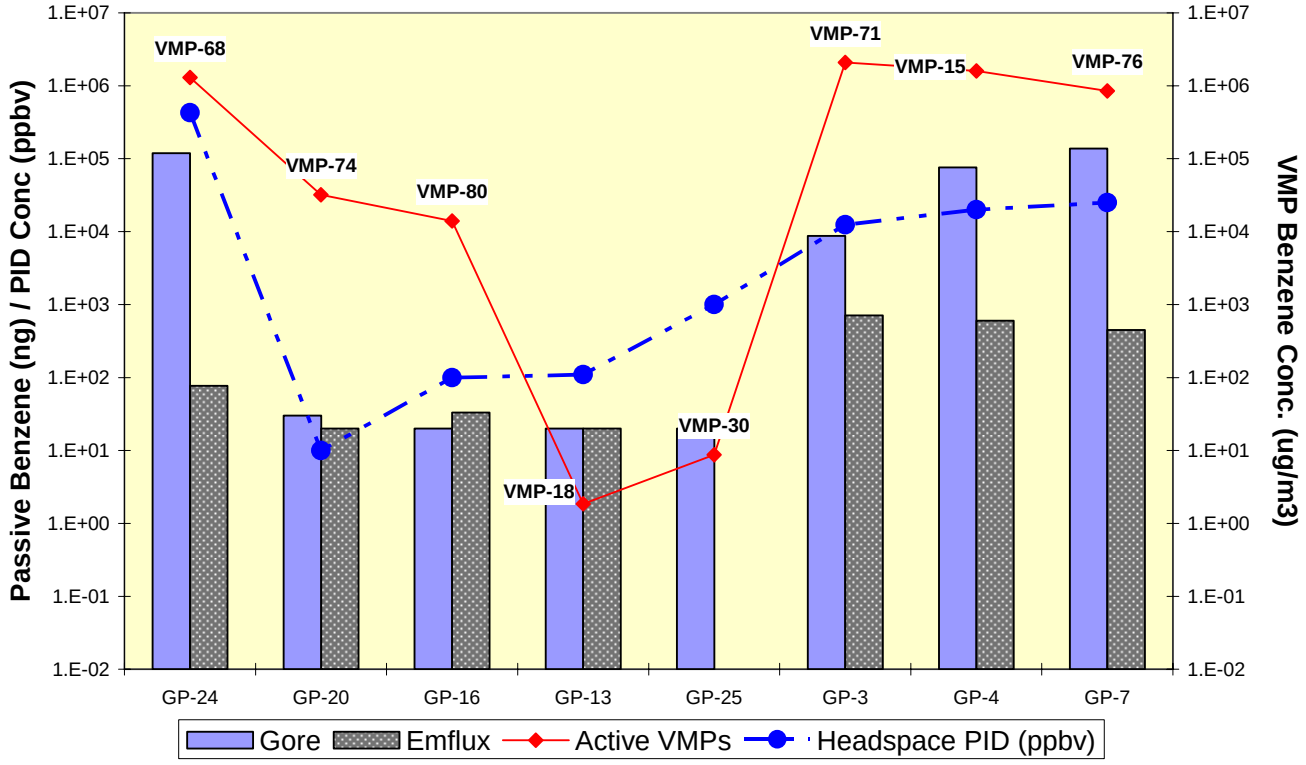


Figure 12. Passive and Active Benzene Soil Vapor Values
The Hartford Working Group, Hartford, IL
Sampling/Analyses - January 2005



APPENDIX J

PASSIVE SEWER VAPOR RESULTS

TABLE J-1
LABORATORY ANALYTICAL RESULTS - PASSIVE SEWER VAPOR SAMPLES

Hartford Working Group
Hartford, Illinois

Sewer Manhole Label		A7	A7	A7	A7	A7	A7	A7	A7A	A7A	A7A	A7A	A7A	A7A	A7A	A8	A8
Approximate depth below sewer manhole rim (ft)		3	4	4	4	4	3	3	4	3	3	3	4	3	3	5	5
Gore-Sorber® Module Installation Date		1/13/05	1/26/05	2/10/05	2/24/05	3/9/05	3/21/05	4/4/05	1/13/05	1/26/05	2/10/05	2/24/05	3/9/05	3/21/05	4/4/05	1/13/05	1/26/05
Gore-Sorber® Module Retrieval Date		1/26/05	2/10/05	2/24/05	3/9/05	3/21/05	4/4/05	4/19/05	1/26/05	2/10/05	2/24/05	3/9/05	3/21/05	4/4/05	4/19/05	1/26/05	2/10/05
Compound	MDL																
Total Petroleum Hydrocarbons	NA	105.71	29.31	44.74	23.46	44.91	35.69	50.95	17.22	8.70	18.92	8.91	48.64	8.42	45.75	111.09	25.34
BTEX	NA	0.69	0.30	0.34	0.26	1.19	0.83	0.52	0.36	0.86	4.03	0.69	1.24	0.29	2.76	0.39	0.30
Benzene	0.03	0.10	0.04	0.04	0.04	0.26	BDL	BDL	0.03	BDL	0.04	0.04	0.38	BDL	0.27	0.07	0.03
Toluene	0.02	0.04	0.02	BDL	0.04	0.61	0.04	0.06	0.03	0.05	0.02	0.06	0.25	0.03	0.21	0.03	0.03
Ethylbenzene	0.01	0.20	0.06	0.06	0.03	0.05	0.11	0.06	0.05	0.15	0.60	0.11	0.11	0.04	0.39	0.11	0.06
m,p-Xylene	0.01	0.28	0.12	0.18	0.10	0.16	0.49	0.30	0.16	0.46	2.92	0.35	0.35	0.15	1.58	0.13	0.12
o-Xylene	0.01	0.08	0.06	0.07	0.06	0.11	0.19	0.10	0.08	0.20	0.45	0.14	0.15	0.07	0.32	0.04	0.06
Undecane, tridecane & pentadecane	NA	0.69	0.85	0.84	0.73	0.70	0.56	7.18	0.29	0.32	1.41	0.21	0.50	0.18	0.71	0.69	0.41
Undecane	0.02	0.28	0.07	0.28	0.33	0.35	0.21	0.98	0.12	0.15	1.13	0.08	0.10	0.07	0.11	0.18	0.13
Tridecane	0.01	0.19	0.66	0.44	0.31	0.31	0.22	5.75	0.11	0.09	0.19	0.07	0.22	0.05	0.51	0.21	0.12
Pentadecane	0.02	0.23	0.13	0.12	0.10	0.04	0.14	0.44	0.07	0.08	0.10	0.06	0.19	0.06	0.09	0.29	0.16
1,3,5-Trimethylbenzene & 1,2,4-Trimethylbenzene	NA	2.20	0.86	0.46	0.28	0.39	1.01	0.38	0.48	0.59	0.58	0.33	0.46	0.27	0.39	1.34	0.75
1,2,4-Trimethylbenzene	0.02	1.81	0.59	0.16	0.19	0.27	0.78	0.27	0.36	0.48	0.47	0.25	0.32	0.18	0.30	1.11	0.50
1,3,5-Trimethylbenzene	0.03	0.40	0.27	0.29	0.09	0.12	0.23	0.11	0.12	0.12	0.12	0.08	0.14	0.09	0.09	0.23	0.25
Naphthalene and 2-Methylnaphthalene	NA	0.53	0.33	0.28	0.11	0.16	0.55	0.45	0.30	0.31	0.71	0.22	0.24	0.13	0.22	0.42	0.33
Naphthalene	0.01	0.38	0.25	0.18	0.07	0.09	0.29	0.14	0.20	0.20	0.29	0.16	0.16	0.09	0.13	0.30	0.24
2-Methylnaphthalene	0.02	0.15	0.08	0.10	0.04	0.06	0.26	0.32	0.10	0.11	0.42	0.06	0.07	0.04	0.09	0.11	0.09
Methyl tertiary-butyl ether	0.04	ND	ND	ND	BDL	ND	ND	ND	ND	ND	BDL	ND	ND	BDL	ND	ND	ND
Octane	0.02	0.23	0.05	0.08	0.07	0.07	0.02	0.02	0.03	0.11	0.04	0.08	0.15	0.02	0.07	0.24	0.04
Isopentane	0.02	-	0.55	0.76	0.22	0.33	0.46	0.17	-	0.21	0.09	0.07	0.61	0.10	0.57	-	0.38

NOTES:
Compound results reported in micrograms (µg) per sorber
MDL - Method Detection Limit
BDL-below detection limit (Compound detected below the MDL
- cannot quantify with confidence)
ND-non detect
NA - No MDL is available for combinations of analytes as they
are a summation of the individual compounds

TABLE J-1
LABORATORY ANALYTICAL RESULTS - PASSIVE SEWER VAPOR SAMPLES

Hartford Working Group
Hartford, Illinois

Sewer Manhole Label		A8	A8	A8	A8	A8	A8A	A8A	A8A	A8A	A8A	A8A	A8A	A8.5A	A8.5A	A8.5A	A8.5A
Approximate depth below sewer manhole rim (ft)		4.5	4.5	4.5	5	5	5.5	5	5	5	5	5	5	6	5.5	5	5
Gore-Sorber® Module Installation Date		2/10/05	2/24/05	3/9/05	3/21/05	4/4/05	1/13/05	1/26/05	2/10/05	2/24/05	3/9/05	3/21/05	4/4/05	12/1/04	12/30/04	1/13/05	1/26/05
Gore-Sorber® Module Retrieval Date		2/24/05	3/9/05	3/21/05	4/4/05	4/19/05	1/26/05	2/10/05	2/24/05	3/9/05	3/21/05	4/4/05	4/19/05	12/30/04	1/13/05	1/26/05	2/10/05
Compound	MDL																
Total Petroleum Hydrocarbons	NA	46.13	29.11	25.76	50.15	66.16	35.15	9.99	19.11	12.05	15.87	41.91	196.12	105.14	77.94	17.74	9.75
BTEX	NA	0.39	0.31	0.31	0.72	0.20	0.65	0.81	0.51	0.55	0.60	0.41	1.14	1.04	1.04	0.96	0.59
Benzene	0.03	0.07	0.05	BDL	0.05	0.04	0.04	0.04	0.05	0.04	BDL	0.05	0.54	0.43	0.61	0.04	0.04
Toluene	0.02	0.02	0.05	0.08	0.04	0.06	0.03	0.04	0.03	0.04	0.05	0.03	0.25	0.07	0.02	0.04	BDL
Ethylbenzene	0.01	0.06	0.03	0.04	0.10	BDL	0.10	0.14	0.08	0.08	0.10	0.06	0.06	0.11	0.09	0.15	0.09
m,p-Xylene	0.01	0.17	0.11	0.12	0.41	0.05	0.34	0.41	0.25	0.27	0.32	0.19	0.20	0.29	0.24	0.52	0.31
o-Xylene	0.01	0.07	0.06	0.07	0.13	0.05	0.15	0.18	0.10	0.12	0.13	0.08	0.10	0.13	0.08	0.21	0.15
Undecane, tridecane & pentadecane	NA	0.30	0.67	0.44	0.33	3.63	0.21	0.29	0.20	0.31	0.65	0.57	0.53	0.70	0.25	0.28	0.30
Undecane	0.02	0.08	0.43	0.22	0.16	3.22	0.11	0.10	0.07	0.15	0.28	0.13	0.11	0.37	0.15	0.14	0.15
Tridecane	0.01	0.10	0.10	0.10	0.08	0.28	0.06	0.09	0.07	0.11	0.29	0.18	0.10	0.17	0.06	0.09	0.09
Pentadecane	0.02	0.12	0.13	0.12	0.08	0.14	0.05	0.11	0.07	0.06	0.09	0.26	0.33	0.15	0.04	0.05	0.06
1,3,5-Trimethylbenzene & 1,2,4-Trimethylbenzene	NA	0.33	0.27	0.25	0.24	0.44	0.58	0.54	0.34	0.43	0.48	0.36	0.33	0.68	0.37	0.65	0.54
1,2,4-Trimethylbenzene	0.02	0.22	0.19	0.18	0.16	0.29	0.42	0.44	0.28	0.26	0.30	0.21	0.19	0.45	0.26	0.47	0.44
1,3,5-Trimethylbenzene	0.03	0.12	0.09	0.07	0.08	0.15	0.17	0.10	0.06	0.17	0.18	0.14	0.13	0.23	0.11	0.18	0.11
Naphthalene and 2-Methylnaphthalene	NA	0.18	0.10	0.12	0.10	0.14	0.21	0.25	0.19	0.19	0.18	0.18	0.21	0.49	0.18	0.23	0.23
Naphthalene	0.01	0.12	0.06	0.06	0.05	0.07	0.14	0.16	0.13	0.14	0.12	0.11	0.13	0.33	0.12	0.16	0.14
2-Methylnaphthalene	0.02	0.05	0.04	0.05	0.05	0.07	0.07	0.09	0.06	0.06	0.06	0.06	0.08	0.16	0.07	0.07	0.08
Methyl tertiary-butyl ether	0.04	ND	ND	ND	ND	ND	ND	ND	BDL	ND	ND	ND	ND	BDL	ND	ND	ND
Octane	0.02	0.07	0.08	0.05	0.03	0.03	0.10	0.10	0.06	0.07	0.10	0.05	0.08	0.21	0.38	0.24	0.10
Isopentane	0.02	0.68	0.28	0.22	0.94	0.79	-	0.10	0.12	0.12	0.33	0.36	3.29	-	-	-	0.24

NOTES:
Compound results reported in micrograms (µg) per sorber
MDL - Method Detection Limit
BDL-below detection limit (Compound detected below the MDL
- cannot quantify with confidence)
ND-non detect
NA - No MDL is available for combinations of analytes as they
are a summation of the individual compounds

TABLE J-1
LABORATORY ANALYTICAL RESULTS - PASSIVE SEWER VAPOR SAMPLES

Hartford Working Group
Hartford, Illinois

Sewer Manhole Label		A8.5A	A8.5A	A8.5A	A8.5A	A8.5A	A8.5B	A8.5B	A8.5B	A8.5B	A8.5B	A8.5B	A8.5B	A8.5C	A8.5C	A8.5C	A8.5C
Approximate depth below sewer manhole rim (ft)		5.5	5	5	5	5	5.5	5.5	5	5.5	5	5	5	5.5	5.5	5	6
Gore-Sorber® Module Installation Date		2/10/05	2/23/05	3/9/05	3/21/05	4/4/05	12/1/04	12/30/04	1/26/05	2/10/05	2/23/05	3/9/05	3/21/05	12/1/04	12/30/04	1/13/05	1/26/05
Gore-Sorber® Module Retrieval Date		2/23/05	3/9/05	3/21/05	4/4/05	4/19/05	12/30/04	1/13/05	2/10/05	2/23/05	3/9/05	3/21/05	4/4/05	12/30/04	1/13/05	1/26/05	2/10/05
Compound	MDL																
Total Petroleum Hydrocarbons	NA	12.89	32.30	171.74	33.14	174.85	132.88	140.93	14.13	24.77	27.00	31.32	45.69	95.04	237.45	47.08	13.45
BTEX	NA	0.58	0.53	1.65	0.29	0.86	0.24	0.92	0.09	0.10	0.13	0.16	0.06	0.29	1.36	0.62	0.47
Benzene	0.03	ND	0.08	0.82	0.04	0.69	0.15	0.76	BDL	0.40	0.04	0.05	0.06	0.03	0.68	0.04	0.05
Toluene	0.02	0.05	0.03	0.24	BDL	0.05	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.03	0.31	0.02	0.04
Ethylbenzene	0.01	0.09	0.07	0.10	0.04	0.04	0.03	0.05	BDL	BDL	BDL	BDL	BDL	0.04	0.10	0.15	0.08
m,p-Xylene	0.01	0.31	0.25	0.35	0.14	0.05	0.03	0.07	0.05	0.03	0.06	0.07	BDL	0.12	0.19	0.31	0.22
o-Xylene	0.01	0.13	0.11	0.15	0.07	0.03	0.03	0.04	0.04	0.02	0.04	0.04	BDL	0.06	0.08	0.10	0.09
Undecane, tridecane & pentadecane	NA	0.21	0.23	0.21	0.16	0.09	13.61	0.96	0.06	0.03	0.11	0.09	0.00	10.80	1.56	0.45	0.18
Undecane	0.02	0.10	0.13	0.11	0.09	0.07	0.15	0.20	0.03	0.03	0.05	0.04	BDL	10.18	0.39	0.14	0.06
Tridecane	0.01	0.06	0.06	0.07	0.05	BDL	1.58	0.10	BDL	BDL	0.02	0.03	BDL	0.26	0.33	0.15	0.06
Pentadecane	0.02	0.05	0.03	0.04	0.03	0.02	11.88	0.66	0.04	BDL	0.03	0.02	BDL	0.36	0.84	0.17	0.06
1,3,5-Trimethylbenzene & 1,2,4-Trimethylbenzene	NA	0.39	0.40	0.46	0.27	0.13	0.16	0.36	0.18	0.10	0.14	0.16	0.08	0.56	0.67	1.08	0.37
1,2,4-Trimethylbenzene	0.02	0.30	0.27	0.31	0.18	0.08	0.09	0.16	0.12	0.06	0.08	0.10	0.04	0.39	0.50	0.82	0.27
1,3,5-Trimethylbenzene	0.03	0.09	0.13	0.15	0.09	0.04	0.07	0.20	0.06	0.04	0.06	0.06	0.04	0.17	0.17	0.25	0.10
Naphthalene and 2-Methylnaphthalene	NA	0.20	0.23	0.18	0.13	0.08	0.17	0.09	0.06	0.00	0.06	0.05	0.00	0.48	0.28	0.29	0.19
Naphthalene	0.01	0.13	0.16	0.12	0.08	0.05	0.08	0.06	0.04	BDL	0.03	0.03	BDL	0.31	0.14	0.20	0.13
2-Methylnaphthalene	0.02	0.07	0.07	0.06	0.05	0.03	0.09	0.04	0.02	BDL	0.02	0.02	BDL	0.17	0.14	0.08	0.06
Methyl tertiary-butyl ether	0.04	ND	ND	ND	ND	ND	ND	ND	ND	BDL	BDL	ND	ND	BDL	ND	ND	ND
Octane	0.02	0.16	0.22	0.16	0.15	0.10	0.02	0.19	ND	ND	0.04	0.04	0.03	0.08	1.33	0.14	0.05
Isopentane	0.02	0.29	0.61	4.55	0.95	5.69	-	-	0.44	0.58	0.89	1.55	1.55	-	-	-	0.15

NOTES:
Compound results reported in micrograms (µg) per sorber
MDL - Method Detection Limit
BDL-below detection limit (Compound detected below the MDL
- cannot quantify with confidence)
ND-non detect
NA - No MDL is available for combinations of analytes as they
are a summation of the individual compounds

TABLE J-1
LABORATORY ANALYTICAL RESULTS - PASSIVE SEWER VAPOR SAMPLES

Hartford Working Group
Hartford, Illinois

Sewer Manhole Label		A8.5C	A8.5C	A8.5C	A8.5C	A8.5C	A9	A9	A9	A9	A9	A9	A9	A9	A9	A10	A10
Approximate depth below sewer manhole rim (ft)		5.5	5	5	5	5	6	6	5	6	6	6	6	5	5	5.5	5
Gore-Sorber® Module Installation Date		2/10/05	2/23/05	3/9/05	3/21/05	4/4/05	12/1/04	12/30/04	1/13/05	1/26/05	2/10/05	2/23/05	3/9/05	3/21/05	4/4/05	12/30/04	1/13/05
Gore-Sorber® Module Retrieval Date		2/23/05	3/9/05	3/21/05	4/4/05	4/19/05	12/30/04	1/13/05	1/26/05	2/10/05	2/23/05	3/9/05	3/21/05	4/4/05	4/19/05	1/13/05	1/26/05
Compound	MDL																
Total Petroleum Hydrocarbons	NA	30.37	25.37	37.26	21.89	48.30	84.34	137.09	20.85	10.10	21.84	17.07	39.23	25.21	37.25	189.92	61.95
BTEX	NA	0.48	0.60	1.30	0.31	0.21	0.45	0.40	1.04	0.65	0.56	0.57	0.99	0.34	0.20	5.48	0.69
Benzene	0.03	0.05	0.08	0.35	BDL	0.03	0.16	0.19	0.04	0.04	0.05	0.06	0.28	BDL	BDL	4.14	0.29
Toluene	0.02	0.03	0.06	0.28	0.03	0.04	0.06	0.02	0.03	0.03	0.03	0.08	0.21	0.04	0.03	0.07	0.03
Ethylbenzene	0.01	0.08	0.08	0.12	0.05	0.02	0.04	0.06	0.24	0.13	0.12	0.08	0.09	0.05	0.03	0.87	0.15
m,p-Xylene	0.01	0.22	0.26	0.39	0.17	0.08	0.11	0.09	0.55	0.31	0.26	0.25	0.28	0.17	0.09	0.36	0.17
o-Xylene	0.01	0.09	0.11	0.17	0.08	0.04	0.06	0.04	0.18	0.14	0.10	0.11	0.13	0.08	0.05	0.05	0.05
Undecane, tridecane & pentadecane	NA	0.26	0.29	0.38	0.31	0.44	2.15	1.75	0.43	0.29	0.24	0.26	0.31	0.33	0.50	8.70	0.27
Undecane	0.02	0.09	0.11	0.20	0.13	0.13	0.80	0.67	0.18	0.12	0.09	0.10	0.13	0.13	0.15	4.09	0.08
Tridecane	0.01	0.08	0.10	0.10	0.08	0.15	0.58	0.55	0.16	0.10	0.09	0.08	0.10	0.10	0.19	2.63	0.07
Pentadecane	0.02	0.09	0.09	0.08	0.09	0.16	0.76	0.53	0.09	0.08	0.07	0.08	0.08	0.10	0.16	1.98	0.12
1,3,5-Trimethylbenzene & 1,2,4-Trimethylbenzene	NA	0.39	0.42	0.50	0.35	0.24	0.67	0.49	1.04	0.62	0.48	0.29	0.39	0.36	0.29	1.63	1.84
1,2,4-Trimethylbenzene	0.02	0.27	0.26	0.32	0.21	0.15	0.43	0.37	0.77	0.44	0.33	0.21	0.26	0.22	0.20	1.14	1.50
1,3,5-Trimethylbenzene	0.03	0.11	0.16	0.18	0.14	0.08	0.24	0.12	0.27	0.18	0.15	0.08	0.13	0.14	0.09	0.49	0.34
Naphthalene and 2-Methylnaphthalene	NA	0.19	0.19	0.18	0.15	0.12	0.45	0.31	0.29	0.23	0.19	0.15	0.14	0.17	0.16	0.85	0.35
Naphthalene	0.01	0.13	0.14	0.13	0.10	0.07	0.29	0.15	0.20	0.16	0.14	0.10	0.09	0.10	0.09	0.21	0.23
2-Methylnaphthalene	0.02	0.06	0.05	0.06	0.05	0.05	0.16	0.16	0.09	0.07	0.05	0.05	0.05	0.07	0.07	0.65	0.12
Methyl tertiary-butyl ether	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Octane	0.02	0.12	0.14	0.23	0.06	0.06	0.10	0.08	0.17	0.08	0.01	0.10	0.11	0.05	0.03	1.86	0.13
Isopentane	0.02	0.18	0.14	0.51	0.18	0.54	-	-	-	0.13	0.11	0.16	0.49	0.32	0.43	-	-

NOTES:
Compound results reported in micrograms (µg) per sorber
MDL - Method Detection Limit
BDL-below detection limit (Compound detected below the MDL
- cannot quantify with confidence)
ND-non detect
NA - No MDL is available for combinations of analytes as they
are a summation of the individual compounds

TABLE J-1
LABORATORY ANALYTICAL RESULTS - PASSIVE SEWER VAPOR SAMPLES

Hartford Working Group
Hartford, Illinois

Sewer Manhole Label		A10	A10	A10	A10	A10	A10	A10A	A10A	A10A	A10A	A10A	A10A	A10A	A10B	A10B	A10B
Approximate depth below sewer manhole rim (ft)		5	5	5	5	6	6	4	3	5	5	5	4	4	3	6	4
Gore-Sorber® Module Installation Date		1/26/05	2/10/05	2/23/05	3/9/05	3/21/05	4/4/05	1/13/05	1/26/05	2/10/05	2/23/05	3/9/05	3/21/05	4/4/05	1/13/05	1/26/05	2/10/05
Gore-Sorber® Module Retrieval Date		2/10/05	2/23/05	3/9/05	3/21/05	4/4/05	4/19/05	1/26/05	2/23/05	2/23/05	3/9/05	3/21/05	4/4/05	4/19/05	1/26/05	2/10/05	2/23/05
Compound	MDL																
Total Petroleum Hydrocarbons	NA	15.51	64.06	32.36	160.21	65.77	113.00	18.77	11.77	13.40	8.43	40.62	12.97	15.96	31.06	12.38	14.47
BTEX	NA	0.28	1.33	0.31	1.81	0.27	0.80	1.15	0.96	0.81	0.78	1.79	0.40	0.25	0.61	0.17	0.18
Benzene	0.03	0.03	0.88	0.08	0.93	0.14	0.63	0.04	0.04	0.04	0.04	0.49	BDL	0.04	0.30	BDL	BDL
Toluene	0.02	0.02	0.03	0.04	0.41	BDL	0.05	0.05	0.05	0.06	0.08	0.40	0.02	0.03	0.10	0.02	0.02
Ethylbenzene	0.01	0.06	0.18	0.04	0.09	0.03	0.04	0.19	0.16	0.13	0.13	0.16	0.06	0.03	0.05	0.03	0.03
m,p-Xylene	0.01	0.11	0.18	0.10	0.25	0.06	0.06	0.62	0.49	0.42	0.38	0.52	0.22	0.10	0.10	0.08	0.08
o-Xylene	0.01	0.06	0.05	0.05	0.13	0.03	0.02	0.26	0.22	0.17	0.16	0.22	0.10	0.05	0.06	0.05	0.04
Undecane, tridecane & pentadecane	NA	0.19	0.15	0.22	0.20	0.23	0.22	0.68	0.78	0.46	0.36	0.46	0.44	0.49	0.44	0.25	0.09
Undecane	0.02	0.05	0.06	0.07	0.09	0.08	0.09	0.23	0.26	0.13	0.13	0.15	0.14	0.18	0.17	0.14	BDL
Tridecane	0.01	0.05	0.03	0.04	0.05	0.05	0.05	0.23	0.27	0.16	0.10	0.14	0.12	0.13	0.09	0.04	0.03
Pentadecane	0.02	0.08	0.06	0.11	0.05	0.11	0.08	0.21	0.25	0.18	0.13	0.17	0.18	0.17	0.18	0.07	0.05
1,3,5-Trimethylbenzene & 1,2,4-Trimethylbenzene	NA	0.73	0.52	0.25	0.40	0.23	0.18	0.95	0.81	0.53	0.54	0.67	0.50	0.60	0.82	0.56	0.26
1,2,4-Trimethylbenzene	0.02	0.51	0.33	0.18	0.29	0.17	0.13	0.70	0.66	0.43	0.37	0.46	0.32	0.22	0.55	0.40	0.18
1,3,5-Trimethylbenzene	0.03	0.22	0.18	0.07	0.10	0.06	0.05	0.26	0.15	0.10	0.18	0.21	0.18	0.38	0.27	0.17	0.08
Naphthalene and 2-Methylnaphthalene	NA	0.45	0.19	0.13	0.16	0.19	0.14	0.73	1.04	0.51	0.38	0.41	0.44	0.44	0.10	0.11	0.02
Naphthalene	0.01	0.23	0.11	0.08	0.09	0.10	0.07	0.31	0.32	0.20	0.21	0.20	0.19	0.16	0.05	0.06	BDL
2-Methylnaphthalene	0.02	0.22	0.07	0.05	0.07	0.09	0.07	0.41	0.72	0.31	0.18	0.20	0.25	0.29	0.05	0.05	0.02
Methyl tertiary-butyl ether	0.04	ND	ND	BDL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Octane	0.02	0.05	0.25	0.12	0.23	0.10	0.14	0.15	0.09	0.14	0.09	0.20	0.07	0.05	BDL	ND	ND
Isopentane	0.02	0.33	0.88	0.36	2.44	1.32	2.34	-	0.08	0.09	0.14	1.23	0.14	0.21	-	0.12	0.42

NOTES:
Compound results reported in micrograms (µg) per sorber
MDL - Method Detection Limit
BDL-below detection limit (Compound detected below the MDL
- cannot quantify with confidence)
ND-non detect
NA - No MDL is available for combinations of analytes as they
are a summation of the individual compounds

TABLE J-1
LABORATORY ANALYTICAL RESULTS - PASSIVE SEWER VAPOR SAMPLES

Hartford Working Group
Hartford, Illinois

Sewer Manhole Label		A10B	A10B	A10B	A10B	A10C	A10C	A10C	A10C	A10C	A10C	A10C	B6	B6	B6	B6	B6
Approximate depth below sewer manhole rim (ft)		4	4	4	4	3	5	4.5	4	4	4	4	2	2	2	2	2
Gore-Sorber® Module Installation Date		2/23/05	3/9/05	3/21/05	4/4/05	1/13/05	1/26/05	2/10/05	2/23/05	3/9/05	3/21/05	4/4/05	1/13/05	1/26/05	2/10/05	2/24/05	3/9/05
Gore-Sorber® Module Retrieval Date		3/9/05	3/21/05	4/4/05	4/19/05	1/26/05	2/10/05	2/23/05	3/9/05	3/21/05	4/4/05	4/19/05	1/26/05	2/10/05	2/24/05	3/9/05	3/21/05
Compound	MDL																
Total Petroleum Hydrocarbons	NA	8.21	6.61	56.82	43.94	113.62	48.46	52.05	31.37	22.58	37.16	42.92	15.59	8.26	11.50	11.24	9.91
BTEX	NA	0.18	0.28	0.33	0.00	0.07	0.20	0.00	0.02	0.41	0.00	0.00	0.80	0.52	0.26	0.42	0.55
Benzene	0.03	BDL	BDL	0.09	BDL	0.04	BDL	BDL	BDL	BDL	BDL	ND	0.04	0.06	0.03	0.03	BDL
Toluene	0.02	0.04	0.05	0.15	BDL	BDL	0.10	BDL	BDL	0.09	BDL	ND	0.06	0.11	0.03	0.07	0.11
Ethylbenzene	0.01	0.02	0.03	BDL	BDL	BDL	BDL	BDL	BDL	0.04	ND	ND	0.13	0.07	0.03	0.06	0.08
m,p-Xylene	0.01	0.07	0.13	0.06	BDL	BDL	0.07	BDL	0.02	0.19	BDL	BDL	0.40	0.20	0.11	0.18	0.25
o-Xylene	0.01	0.04	0.07	0.04	BDL	0.03	0.03	BDL	BDL	0.09	ND	BDL	0.17	0.09	0.06	0.09	0.11
Undecane, tridecane & pentadecane	NA	0.03	0.08	0.09	0.08	5.38	0.74	0.25	0.17	0.04	0.05	0.08	0.27	0.20	0.17	0.20	0.23
Undecane	0.02	0.03	0.04	0.06	0.05	3.18	0.37	0.16	0.09	0.04	0.05	0.06	0.16	0.09	0.10	0.12	0.14
Tridecane	0.01	BDL	0.02	BDL	BDL	1.09	0.10	0.05	0.03	BDL	BDL	BDL	0.06	0.06	0.03	0.04	0.06
Pentadecane	0.02	BDL	0.02	0.03	0.02	1.11	0.27	0.05	0.05	BDL	BDL	0.03	0.06	0.06	0.04	0.04	0.03
1,3,5-Trimethylbenzene & 1,2,4-Trimethylbenzene	NA	0.21	0.38	0.28	0.16	2.43	0.43	0.22	0.13	0.26	0.10	0.09	0.44	0.28	0.20	0.22	0.36
1,2,4-Trimethylbenzene	0.02	0.15	0.28	0.19	0.12	1.61	0.26	0.12	0.07	0.18	0.06	0.06	0.32	0.22	0.04	0.16	0.23
1,3,5-Trimethylbenzene	0.03	0.06	0.10	0.09	0.05	0.82	0.18	0.10	0.06	0.07	0.04	0.03	0.13	0.06	0.15	0.06	0.13
Naphthalene and 2-Methylnaphthalene	NA	0.02	0.10	0.06	0.02	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.16	0.14	0.13	0.15
Naphthalene	0.01	BDL	0.06	0.03	BDL	0.03	BDL	ND	ND	BDL	BDL	BDL	0.12	0.10	0.10	0.09	0.11
2-Methylnaphthalene	0.02	0.02	0.04	0.03	0.02	0.04	BDL	BDL	BDL	BDL	BDL	BDL	0.05	0.06	0.05	0.04	0.05
Methyl tertiary-butyl ether	0.04	BDL	ND	ND	ND	ND	ND	ND	BDL	ND	ND	ND	ND	ND	ND	ND	ND
Octane	0.02	ND	BDL	0.03	ND	ND	ND	BDL	BDL	BDL	ND	ND	0.17	0.06	0.06	0.09	0.12
Isopentane	0.02	0.26	0.15	1.67	1.16	-	0.70	1.35	0.92	0.49	1.27	1.46	-	0.07	0.09	0.06	0.07

NOTES:
Compound results reported in micrograms (µg) per sorber
MDL - Method Detection Limit
BDL-below detection limit (Compound detected below the MDL
- cannot quantify with confidence)
ND-non detect
NA - No MDL is available for combinations of analytes as they
are a summation of the individual compounds

TABLE J-1
LABORATORY ANALYTICAL RESULTS - PASSIVE SEWER VAPOR SAMPLES

Hartford Working Group
Hartford, Illinois

Sewer Manhole Label		B6	B6	B7	B7	B7	B7	B7	B7	B7	C1	C1	C1	C1	C1	C1	C1
Approximate depth below sewer manhole rim (ft)		3	4	3	3	3	3	3	2	2	4	6	5	5	5	5	5
Gore-Sorber® Module Installation Date		3/21/05	4/4/05	1/13/05	1/26/05	2/10/05	2/24/05	3/9/05	3/21/05	4/4/05	1/13/05	1/26/05	2/10/05	2/24/05	3/9/05	3/21/05	4/4/05
Gore-Sorber® Module Retrieval Date		4/4/05	4/19/05	1/26/05	2/10/05	2/24/05	3/9/05	3/21/05	4/4/05	4/19/05	1/26/05	2/10/05	2/24/05	3/9/05	3/21/05	4/4/05	4/19/05
Compound	MDL																
Total Petroleum Hydrocarbons	NA	13.15	23.01	31.75	10.50	23.88	19.28	25.73	14.37	20.32	39.95	143.43	157.33	31.60	11.53	18.93	19.01
BTEX	NA	0.19	0.19	0.70	0.53	0.40	0.59	0.59	0.29	0.39	0.37	0.09	0.26	0.09	0.69	0.76	0.20
Benzene	0.03	BDL	BDL	0.04	0.03	0.04	0.03	BDL	BDL	BDL	0.17	BDL	0.11	BDL	0.20	0.11	BDL
Toluene	0.02	0.03	0.04	0.04	0.03	0.03	0.06	0.08	0.03	0.05	0.04	0.02	0.08	0.03	0.35	0.52	0.10
Ethylbenzene	0.01	0.02	0.02	0.10	0.08	0.05	0.09	0.09	0.04	0.06	0.02	BDL	BDL	BDL	BDL	0.02	BDL
m,p-Xylene	0.01	0.08	0.07	0.36	0.26	0.18	0.28	0.30	0.16	0.19	0.07	0.03	0.03	0.03	0.06	0.06	0.05
o-Xylene	0.01	0.05	0.05	0.16	0.13	0.09	0.13	0.13	0.07	0.09	0.06	0.03	0.04	0.03	0.07	0.05	0.05
Undecane, tridecane & pentadecane	NA	0.22	0.96	0.21	0.22	0.21	0.22	0.27	0.18	0.52	1.73	29.54	21.89	5.75	0.67	0.35	0.57
Undecane	0.02	0.12	0.69	0.12	0.12	0.15	0.19	0.23	0.11	0.41	1.39	28.32	21.08	5.61	0.31	0.22	0.41
Tridecane	0.01	0.06	0.19	0.05	0.06	0.03	0.04	0.04	0.05	0.07	1.20	1.10	0.69	0.10	0.32	0.09	0.11
Pentadecane	0.02	0.03	0.09	0.04	0.05	0.02	BDL	BDL	0.03	0.03	0.14	0.13	0.12	0.04	0.04	0.04	0.05
1,3,5-Trimethylbenzene & 1,2,4-Trimethylbenzene	NA	0.20	0.59	0.53	0.41	0.28	0.39	0.37	0.28	0.61	0.22	0.17	0.11	0.47	0.99	0.19	0.27
1,2,4-Trimethylbenzene	0.02	0.13	0.36	0.38	0.32	0.22	0.29	0.26	0.17	0.38	0.17	0.12	0.07	0.37	0.72	0.14	0.19
1,3,5-Trimethylbenzene	0.03	0.08	0.23	0.15	0.09	0.06	0.09	0.11	0.11	0.23	0.06	0.04	0.04	0.10	0.28	0.06	0.09
Naphthalene and 2-Methylnaphthalene	NA	0.12	0.17	0.16	0.15	0.12	0.18	0.15	0.13	0.20	0.17	0.20	0.21	0.13	0.11	0.11	0.13
Naphthalene	0.01	0.07	0.11	0.11	0.10	0.08	0.13	0.10	0.09	0.14	0.09	0.10	0.10	0.08	0.07	0.07	0.08
2-Methylnaphthalene	0.02	0.04	0.07	0.05	0.06	0.04	0.05	0.05	0.04	0.06	0.08	0.10	0.11	0.05	0.04	0.05	0.05
Methyl tertiary-butyl ether	0.04	BDL	ND	ND	ND	ND	ND	ND	BDL	ND	ND	ND	ND	ND	ND	BDL	ND
Octane	0.02	0.12	0.03	0.13	0.06	0.13	0.20	0.10	0.12	0.07	0.14	BDL	0.02	ND	BDL	0.02	BDL
Isopentane	0.02	0.11	0.07	-	0.10	0.23	0.20	0.21	0.27	0.65	-	0.04	0.08	ND	0.06	0.32	0.14

NOTES:
Compound results reported in micrograms (µg) per sorber
MDL - Method Detection Limit
BDL-below detection limit (Compound detected below the MDL
- cannot quantify with confidence)
ND-non detect
NA - No MDL is available for combinations of analytes as they
are a summation of the individual compounds

TABLE J-1
LABORATORY ANALYTICAL RESULTS - PASSIVE SEWER VAPOR SAMPLES

Hartford Working Group
Hartford, Illinois

Sewer Manhole Label		C1A	C1A	C1A	C1A	C1A	C1A	C1A	C2	C2	C2	C2	C2	C2	C2	C2A	C2A
Approximate depth below sewer manhole rim (ft)		4.5	3	5	4	7	4	4	5	5	6	6	6	5	5	3.5	3
Gore-Sorber® Module Installation Date		1/13/05	1/26/05	2/10/05	2/24/05	3/9/05	3/21/05	4/4/05	1/13/05	1/26/05	2/10/05	2/24/05	3/9/05	3/21/05	4/4/05	1/13/05	1/26/05
Gore-Sorber® Module Retrieval Date		1/26/05	2/10/05	2/24/05	3/9/05	3/21/05	4/4/05	4/19/05	1/26/05	2/10/05	2/24/05	3/9/05	3/21/05	4/4/05	4/19/05	1/26/05	2/10/05
Compound	MDL																
Total Petroleum Hydrocarbons	NA	21.22	15.69	11.60	5.26	10.68	6.72	8.46	60.85	62.87	114.13	23.49	17.07	15.74	50.84	87.47	49.59
BTEX	NA	0.81	0.64	0.37	0.55	0.93	0.30	0.34	0.66	0.23	0.02	0.21	0.81	0.23	1.49	1.48	0.48
Benzene	0.03	0.07	0.03	BDL	BDL	0.25	BDL	BDL	0.38	0.07	BDL	BDL	0.19	BDL	0.18	0.87	0.04
Toluene	0.02	0.04	0.04	BDL	0.04	0.17	0.02	0.03	0.05	0.05	0.02	0.06	0.44	0.06	1.12	0.10	0.03
Ethylbenzene	0.01	0.13	0.12	0.06	0.09	0.09	0.05	0.05	0.04	BDL	BDL	0.02	0.03	0.03	0.03	0.09	0.06
m,p-Xylene	0.01	0.40	0.31	0.21	0.29	0.29	0.05	0.17	0.12	0.06	BDL	0.08	0.08	0.09	0.09	0.27	0.24
o-Xylene	0.01	0.17	0.15	0.10	0.12	0.12	0.16	0.09	0.07	0.05	BDL	0.06	0.07	0.06	0.07	0.14	0.12
Undecane, tridecane & pentadecane	NA	0.26	1.30	0.20	0.11	0.19	0.07	0.06	1.50	11.99	16.56	2.55	1.18	0.36	0.37	1.39	7.03
Undecane	0.02	0.13	1.11	0.14	0.09	0.11	0.08	0.04	0.56	11.31	15.91	2.41	0.12	0.10	0.17	0.94	6.62
Tridecane	0.01	0.07	0.10	0.04	0.02	0.05	0.05	BDL	0.59	0.46	0.47	0.07	1.01	0.17	0.12	0.25	0.27
Pentadecane	0.02	0.06	0.08	0.03	BDL	0.03	BDL	0.02	0.35	0.22	0.18	0.06	0.04	0.09	0.08	0.20	0.14
1,3,5-Trimethylbenzene & 1,2,4-Trimethylbenzene	NA	0.66	0.42	0.33	0.45	0.52	0.33	0.35	0.43	0.17	0.09	0.41	0.63	0.30	0.29	1.09	0.63
1,2,4-Trimethylbenzene	0.02	0.43	0.34	0.27	0.26	0.28	0.17	0.20	0.30	0.13	0.06	0.11	0.40	0.19	0.19	0.76	0.43
1,3,5-Trimethylbenzene	0.03	0.23	0.08	0.06	0.18	0.24	0.16	0.14	0.13	0.04	0.03	0.30	0.22	0.11	0.10	0.33	0.20
Naphthalene and 2-Methylnaphthalene	NA	0.24	0.19	0.16	0.14	0.16	0.10	0.12	0.28	0.20	0.17	0.23	0.14	0.20	0.25	0.58	0.53
Naphthalene	0.01	0.16	0.13	0.11	0.10	0.12	0.07	0.08	0.14	0.11	0.09	0.13	0.08	0.12	0.13	0.30	0.26
2-Methylnaphthalene	0.02	0.08	0.07	0.05	0.04	0.05	0.03	0.03	0.14	0.09	0.08	0.10	0.06	0.09	0.12	0.28	0.27
Methyl tertiary-butyl ether	0.04	ND	ND	BDL	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Octane	0.02	0.27	0.06	0.09	0.07	0.10	0.10	0.03	0.40	BDL	0.04	ND	0.12	0.05	0.06	0.65	0.07
Isopentane	0.02	-	0.16	0.12	0.08	0.68	0.08	0.09	-	0.15	0.06	0.04	0.19	0.20	0.74	-	0.29

NOTES:
Compound results reported in micrograms (µg) per sorber
MDL - Method Detection Limit
BDL-below detection limit (Compound detected below the MDL
- cannot quantify with confidence)
ND-non detect
NA - No MDL is available for combinations of analytes as they
are a summation of the individual compounds

TABLE J-1
LABORATORY ANALYTICAL RESULTS - PASSIVE SEWER VAPOR SAMPLES

Hartford Working Group
Hartford, Illinois

Sewer Manhole Label		C2A	C2A	C2A	C2A	C2A	C2B	C2B	C2B	C2B	C2B	C2B	C2B	C3	C3	C3	C3
Approximate depth below sewer manhole rim (ft)		3	3	3	2.5	2.5	6	6	5	5	5	5	5	6	5	7	7
Gore-Sorber® Module Installation Date		2/10/05	2/24/05	3/9/05	3/21/05	4/4/05	1/13/05	1/26/05	2/10/05	2/24/05	3/9/05	3/21/05	4/4/05	1/13/05	1/26/05	2/10/05	2/24/05
Gore-Sorber® Module Retrieval Date		2/24/05	3/9/05	3/21/05	4/4/05	4/19/05	1/26/05	2/10/05	2/24/05	3/9/05	3/21/05	4/4/05	4/19/05	1/26/05	2/10/05	2/24/05	3/9/05
Compound	MDL																
Total Petroleum Hydrocarbons	NA	117.96	70.49	21.47	33.78	50.53	88.92	49.00	118.09	34.44	12.08	19.87	25.18	63.00	22.87	44.51	13.08
BTEX	NA	0.17	0.27	0.49	0.62	0.23	2.13	0.22	0.15	0.16	0.29	0.71	0.31	0.44	0.29	0.15	0.29
Benzene	0.03	0.05	0.04	BDL	0.04	0.05	1.49	0.03	0.05	BDL	BDL	0.03	BDL	0.27	BDL	0.04	BDL
Toluene	0.02	0.03	0.04	0.08	0.06	0.06	0.17	0.03	0.04	0.07	0.12	0.17	0.17	0.03	0.02	BDL	0.06
Ethylbenzene	0.01	BDL	0.02	0.07	0.09	0.02	0.10	0.02	BDL	BDL	0.03	0.09	0.02	0.03	0.04	BDL	0.04
m,p-Xylene	0.01	0.06	0.09	0.24	0.29	0.07	0.23	0.09	0.03	0.05	0.09	0.29	0.07	0.07	0.14	0.06	0.12
o-Xylene	0.01	0.04	0.09	0.10	0.14	0.04	0.15	0.05	0.03	0.04	0.05	0.14	0.04	0.04	0.08	0.05	0.07
Undecane, tridecane & pentadecane	NA	15.71	12.87	0.40	0.38	0.36	1.34	8.28	15.95	5.15	0.39	0.30	0.34	0.63	1.03	2.55	0.32
Undecane	0.02	15.24	12.50	0.28	0.23	0.18	0.68	7.10	15.59	5.02	0.11	0.13	0.12	0.25	0.51	2.31	0.08
Tridecane	0.01	0.32	0.27	0.09	0.09	0.09	0.40	1.03	0.27	0.08	0.25	0.11	0.08	0.21	0.17	0.13	0.19
Pentadecane	0.02	0.15	0.10	0.03	0.06	0.08	0.26	0.16	0.09	0.05	0.03	0.07	0.14	0.17	0.35	0.11	0.05
1,3,5-Trimethylbenzene & 1,2,4-Trimethylbenzene	NA	0.33	4.66	0.50	0.65	0.47	1.17	0.28	0.14	1.67	0.31	0.50	0.34	0.24	0.28	0.18	0.24
1,2,4-Trimethylbenzene	0.02	0.20	3.78	0.29	0.39	0.24	0.85	0.21	0.10	0.33	0.22	0.38	0.25	0.15	0.21	0.14	0.14
1,3,5-Trimethylbenzene	0.03	0.13	0.89	0.21	0.26	0.23	0.32	0.07	0.04	1.35	0.09	0.12	0.09	0.09	0.06	0.05	0.09
Naphthalene and 2-Methylnaphthalene	NA	0.42	0.55	0.26	0.32	0.34	0.74	0.68	0.47	0.63	0.29	0.45	0.42	0.19	0.25	0.19	0.13
Naphthalene	0.01	0.19	0.29	0.14	0.16	0.15	0.32	0.27	0.20	0.28	0.13	0.20	0.18	0.14	0.16	0.13	0.10
2-Methylnaphthalene	0.02	0.23	0.26	0.12	0.17	0.19	0.42	0.41	0.28	0.34	0.16	0.26	0.24	0.06	0.09	0.06	0.03
Methyl tertiary-butyl ether	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	BDL
Octane	0.02	0.07	ND	0.18	0.06	0.04	1.15	BDL	0.07	ND	0.02	0.03	BDL	0.22	0.05	0.08	0.14
Isopentane	0.02	0.44	0.33	0.72	1.08	1.76	-	0.14	0.15	0.08	0.10	0.33	0.33	-	0.09	0.15	0.04

NOTES:
Compound results reported in micrograms (µg) per sorber
MDL - Method Detection Limit
BDL-below detection limit (Compound detected below the MDL
- cannot quantify with confidence)
ND-non detect
NA - No MDL is available for combinations of analytes as they
are a summation of the individual compounds

TABLE J-1
LABORATORY ANALYTICAL RESULTS - PASSIVE SEWER VAPOR SAMPLES

Hartford Working Group
Hartford, Illinois

Sewer Manhole Label		C3	C3	C3	C3A	C3A	C3A	C3A	C3A	C3A	C3A	C4	C4	C4	C4	C4	C4
Approximate depth below sewer manhole rim (ft)		7	6	6	5	2	2	2	2	2	2	4	4	4	4	4	4
Gore-Sorber® Module Installation Date		3/9/05	3/21/05	4/4/05	1/13/05	1/26/05	2/10/05	2/23/05	3/9/05	3/21/05	4/4/05	1/13/05	1/26/05	2/10/04	2/23/05	3/9/05	3/21/05
Gore-Sorber® Module Retrieval Date		3/21/05	4/4/05	4/19/05	1/26/05	2/10/05	2/23/05	3/9/05	3/21/05	4/4/05	4/19/05	1/26/05	2/10/05	2/23/04	3/9/05	3/21/05	4/4/05
Compound	MDL																
Total Petroleum Hydrocarbons	NA	36.84	16.52	18.29	48.88	16.41	40.60	19.62	18.79	23.76	18.72	86.58	27.35	47.61	22.92	27.49	66.66
BTEX	NA	0.63	0.19	0.27	0.56	0.30	0.24	0.18	0.23	0.21	0.22	0.60	0.13	0.32	0.13	0.47	1.01
Benzene	0.03	0.15	BDL	BDL	0.23	0.04	0.18	0.04	0.06	0.08	0.11	0.37	0.04	0.18	0.03	0.08	0.22
Toluene	0.02	0.28	0.05	0.07	0.03	0.03	BDL	BDL	0.03	0.04	0.02	0.04	0.02	0.04	0.04	0.28	0.62
Ethylbenzene	0.01	0.03	0.02	0.03	0.05	0.04	BDL	BDL	0.02	BDL	BDL	0.04	BDL	BDL	BDL	BDL	0.02
m,p-Xylene	0.01	0.09	0.07	0.10	16.00	0.12	0.04	0.07	0.07	0.06	0.05	0.09	0.03	0.06	0.03	0.05	0.07
o-Xylene	0.01	0.08	0.05	0.07	0.10	0.08	0.03	0.07	0.05	0.04	0.04	0.05	0.03	0.04	0.03	0.06	0.08
Undecane, tridecane & pentadecane	NA	7.76	0.86	0.38	0.21	0.10	0.16	0.17	0.09	0.13	0.14	0.38	0.86	0.17	0.20	2.45	0.21
Undecane	0.02	0.13	0.07	0.12	0.09	0.03	0.10	0.14	0.03	0.06	0.06	0.15	0.05	0.06	0.05	0.14	0.06
Tridecane	0.01	7.56	0.73	0.19	0.06	0.04	0.03	0.03	0.03	0.04	0.05	0.11	0.23	0.05	0.09	2.29	0.10
Pentadecane	0.02	0.07	0.06	0.07	0.06	0.03	0.03	BDL	0.02	0.03	0.03	0.12	0.58	0.06	0.06	0.02	0.05
1,3,5-Trimethylbenzene & 1,2,4-Trimethylbenzene	NA	0.60	0.23	0.19	0.37	0.17	0.09	0.37	0.12	0.12	0.13	0.24	0.13	0.11	0.09	0.40	0.26
1,2,4-Trimethylbenzene	0.02	0.36	0.14	0.14	0.24	0.12	0.04	0.15	0.08	0.08	0.08	0.16	0.09	0.04	0.04	0.24	0.17
1,3,5-Trimethylbenzene	0.03	0.24	0.09	0.06	0.14	0.06	0.06	0.23	0.04	0.04	0.04	0.08	0.04	0.07	0.06	0.16	0.09
Naphthalene and 2-Methylnaphthalene	NA	0.14	0.14	0.15	0.11	0.03	0.00	0.00	0.00	0.04	0.07	0.20	0.20	0.13	0.11	0.12	0.15
Naphthalene	0.01	0.10	0.10	0.11	0.07	0.03	BDL	BDL	BDL	0.04	0.04	0.15	0.11	0.08	0.11	0.12	0.12
2-Methylnaphthalene	0.02	0.03	0.04	0.04	0.04	BDL	BDL	BDL	BDL	BDL	0.02	0.05	0.09	0.04	BDL	BDL	0.03
Methyl tertiary-butyl ether	0.04	ND	BDL	ND	BDL	ND	ND	ND	ND	ND	ND	ND	ND	ND	BDL	ND	ND
Octane	0.02	0.09	0.06	0.07	0.13	0.06	0.09	0.05	0.06	0.04	0.05	0.51	0.06	0.41	0.12	0.07	0.15
Isopentane	0.02	0.16	0.12	0.14	-	0.69	1.94	0.64	0.67	0.70	0.39	-	0.63	0.53	0.35	0.29	0.64

NOTES:
Compound results reported in micrograms (µg) per sorber
MDL - Method Detection Limit
BDL-below detection limit (Compound detected below the MDL
- cannot quantify with confidence)
ND-non detect
NA - No MDL is available for combinations of analytes as they
are a summation of the individual compounds

TABLE J-1
LABORATORY ANALYTICAL RESULTS - PASSIVE SEWER VAPOR SAMPLES

Hartford Working Group
Hartford, Illinois

Sewer Manhole Label		C4	C4A	C4A	C4A	C4A	C4A	C4A	C4A	C6	C6	C6	C6	C6	C6	C6	C6A
Approximate depth below sewer manhole rim (ft)		4	2	2	3	3	3	3	3	4	3	3	3	3	2	4	2
Gore-Sorber® Module Installation Date		4/4/05	1/13/05	1/26/05	2/10/05	2/23/05	3/9/05	3/21/05	4/4/05	1/13/05	1/26/05	2/10/05	2/23/05	3/9/05	3/21/05	4/4/05	1/13/05
Gore-Sorber® Module Retrieval Date		4/19/05	1/26/05	2/10/05	2/23/05	3/9/05	3/21/05	4/4/05	4/19/05	1/26/05	2/10/05	2/23/05	3/9/05	3/21/05	4/4/05	4/19/05	1/26/05
Compound	MDL																
Total Petroleum Hydrocarbons	NA	29.23	95.14	56.26	47.73	18.68	40.86	13.96	11.97	74.43	96.92	53.70	22.50	15.75	23.46	19.56	89.52
BTEX	NA	0.17	0.40	0.42	0.26	0.46	1.21	0.36	0.21	1.11	0.14	0.52	0.15	0.28	0.17	0.07	0.47
Benzene	0.03	BDL	0.05	0.04	0.04	BDL	0.26	BDL	BDL	0.81	0.06	0.38	0.04	BDL	0.04	BDL	0.28
Toluene	0.02	0.10	0.05	0.04	0.02	0.06	0.32	0.05	0.03	0.03	BDL	BDL	BDL	0.03	BDL	BDL	0.03
Ethylbenzene	0.01	BDL	0.05	0.06	0.03	0.07	0.11	0.05	0.03	0.07	BDL	0.03	BDL	0.04	BDL	BDL	0.05
m,p-Xylene	0.01	0.03	0.18	0.19	0.11	0.23	0.36	0.17	0.10	0.12	0.04	0.07	0.06	0.14	0.07	0.03	0.07
o-Xylene	0.01	0.03	0.08	0.09	0.06	0.10	0.16	0.08	0.05	0.07	0.03	0.05	0.04	0.08	0.06	0.04	0.05
Undecane, tridecane & pentadecane	NA	0.42	0.71	0.84	0.24	0.21	0.54	0.23	0.91	0.28	15.06	0.15	0.10	0.16	0.31	0.05	0.31
Undecane	0.02	0.08	0.52	0.68	0.12	0.10	0.25	0.10	0.15	0.08	8.33	0.05	0.04	0.05	0.05	0.03	0.12
Tridecane	0.01	0.27	0.09	0.07	0.08	0.06	0.24	0.07	0.70	0.07	5.93	0.05	0.03	0.04	0.24	0.02	0.09
Pentadecane	0.02	0.07	0.10	0.09	0.04	0.05	0.05	0.06	0.06	0.13	0.80	0.05	0.04	0.07	0.03	BDL	0.11
1,3,5-Trimethylbenzene & 1,2,4-Trimethylbenzene	NA	0.12	0.47	0.34	0.28	0.37	0.47	0.40	0.24	0.48	0.80	0.19	0.14	0.23	0.35	0.10	0.39
1,2,4-Trimethylbenzene	0.02	0.08	0.36	0.28	0.22	0.26	0.31	0.26	0.17	0.30	0.61	0.08	0.09	0.16	0.23	0.06	0.26
1,3,5-Trimethylbenzene	0.03	0.04	0.11	0.07	0.06	0.11	0.16	0.15	0.08	0.18	0.20	0.12	0.04	0.07	0.13	0.04	0.12
Naphthalene and 2-Methylnaphthalene	NA	0.07	0.24	0.16	0.13	0.18	0.17	0.14	0.14	0.19	1.45	0.06	0.08	0.09	0.10	0.04	0.22
Naphthalene	0.01	0.07	0.16	0.10	0.09	0.12	0.11	0.09	0.09	0.10	0.47	0.04	0.05	0.06	0.07	0.04	0.14
2-Methylnaphthalene	0.02	BDL	0.08	0.06	0.04	0.05	0.05	0.05	0.05	0.09	0.99	0.02	0.03	0.02	0.03	BDL	0.07
Methyl tertiary-butyl ether	0.04	ND	ND	ND	ND	ND	ND	BDL	ND	ND	ND	ND	ND	ND	ND	ND	ND
Octane	0.02	0.03	0.21	0.13	0.12	0.13	0.17	0.24	0.12	0.40	0.05	0.30	0.10	0.07	0.08	0.03	0.35
Isopentane	0.02	0.43	-	1.08	0.77	0.19	0.49	0.13	0.07	-	1.22	1.44	0.57	0.39	0.41	0.31	-

NOTES:
Compound results reported in micrograms (µg) per sorber
MDL - Method Detection Limit
BDL-below detection limit (Compound detected below the MDL
- cannot quantify with confidence)
ND-non detect
NA - No MDL is available for combinations of analytes as they
are a summation of the individual compounds

TABLE J-1
LABORATORY ANALYTICAL RESULTS - PASSIVE SEWER VAPOR SAMPLES

Hartford Working Group
Hartford, Illinois

Sewer Manhole Label		C6A	C6A	C6A	C6A	C6A	C6A	C6B	C6B	C6B	C6B	C6B	C6B	C6B	C7	C7	C7
Approximate depth below sewer manhole rim (ft)		2.5	2	2	2	2	2	2.5	2.5	4	1	1	2	2	3	2	3
Gore-Sorber® Module Installation Date		1/26/05	2/10/05	2/23/05	3/9/05	3/21/05	4/4/05	1/13/05	1/26/05	2/10/05	2/23/05	3/9/05	3/21/05	4/4/05	1/13/05	1/26/05	2/10/05
Gore-Sorber® Module Retrieval Date		2/10/05	2/23/05	3/9/05	3/21/05	4/4/05	4/19/05	1/26/05	2/10/05	2/23/05	3/9/05	3/21/05	4/4/05	4/19/05	1/26/05	2/10/05	2/23/05
Compound	MDL																
Total Petroleum Hydrocarbons	NA	31.78	88.99	28.51	82.31	30.41	36.03	31.43	5.80	31.84	10.54	3.52	21.63	10.17	92.06	80.53	69.47
BTEX	NA	0.16	0.31	0.26	0.92	0.18	0.16	0.48	0.29	0.29	0.70	0.48	0.53	0.83	0.87	0.38	0.53
Benzene	0.03	BDL	0.17	0.03	0.25	BDL	BDL	0.05	BDL	BDL	0.22	BDL	BDL	0.04	0.53	0.05	0.32
Toluene	0.02	0.03	0.03	0.10	0.39	0.03	0.03	0.03	0.03	0.03	0.13	0.04	0.04	0.05	0.04	0.03	0.03
Ethylbenzene	0.01	0.02	0.02	0.02	0.05	BDL	BDL	0.07	0.04	0.04	0.06	0.07	0.08	0.11	0.07	0.06	0.04
m,p-Xylene	0.01	0.07	0.04	0.06	0.15	0.08	0.06	0.21	0.14	0.14	0.02	0.25	0.28	0.42	0.15	0.15	0.10
o-Xylene	0.01	0.05	0.04	0.05	0.09	0.07	0.07	0.12	0.08	0.08	0.09	0.12	0.14	0.22	0.07	0.10	0.05
Undecane, tridecane & pentadecane	NA	0.26	0.22	0.21	0.19	0.23	0.19	0.10	0.03	0.06	0.11	0.08	0.11	0.10	1.27	16.11	1.88
Undecane	0.02	0.10	0.07	0.08	0.09	0.14	0.08	0.04	0.03	0.04	0.05	0.05	0.07	0.06	0.20	10.76	0.62
Tridecane	0.01	0.07	0.06	0.06	0.06	0.08	0.07	0.02	BDL	0.02	0.03	0.03	0.03	0.02	0.25	4.57	0.87
Pentadecane	0.02	0.09	0.09	0.07	0.04	0.04	0.04	0.03	BDL	BDL	0.03	BDL	BDL	0.02	0.83	0.78	0.40
1,3,5-Trimethylbenzene & 1,2,4-Trimethylbenzene	NA	0.26	0.29	0.13	0.23	0.55	0.20	0.37	0.16	0.19	0.19	0.34	0.41	0.65	0.63	2.36	0.36
1,2,4-Trimethylbenzene	0.02	0.18	0.20	0.04	0.16	0.33	0.11	0.25	0.12	0.06	0.13	0.20	0.26	0.46	0.44	1.89	0.27
1,3,5-Trimethylbenzene	0.03	0.08	0.10	0.09	0.07	0.22	0.09	0.12	0.04	0.14	0.06	0.14	0.15	0.19	0.19	0.47	0.09
Naphthalene and 2-Methylnaphthalene	NA	0.13	0.41	0.12	0.32	0.16	0.14	0.08	0.00	0.04	0.05	0.07	0.09	0.14	0.36	1.77	0.19
Naphthalene	0.01	0.09	0.37	0.10	0.28	0.12	0.10	0.05	BDL	0.04	0.05	0.05	0.06	0.09	0.17	0.80	0.11
2-Methylnaphthalene	0.02	0.03	0.04	0.02	0.04	0.04	0.04	0.03	BDL	BDL	BDL	0.02	0.03	0.04	0.19	0.97	0.08
Methyl tertiary-butyl ether	0.04	ND	ND	ND	ND	ND	ND	BDL	ND	ND	ND	ND	BDL	ND	BDL	ND	ND
Octane	0.02	0.07	0.31	0.06	0.08	0.04	0.06	0.19	0.04	0.30	0.07	0.07	0.11	0.08	0.32	0.08	0.32
Isopentane	0.02	0.70	0.80	0.35	0.82	0.25	0.42	-	0.09	0.24	0.21	0.03	0.14	0.07	-	0.59	1.29

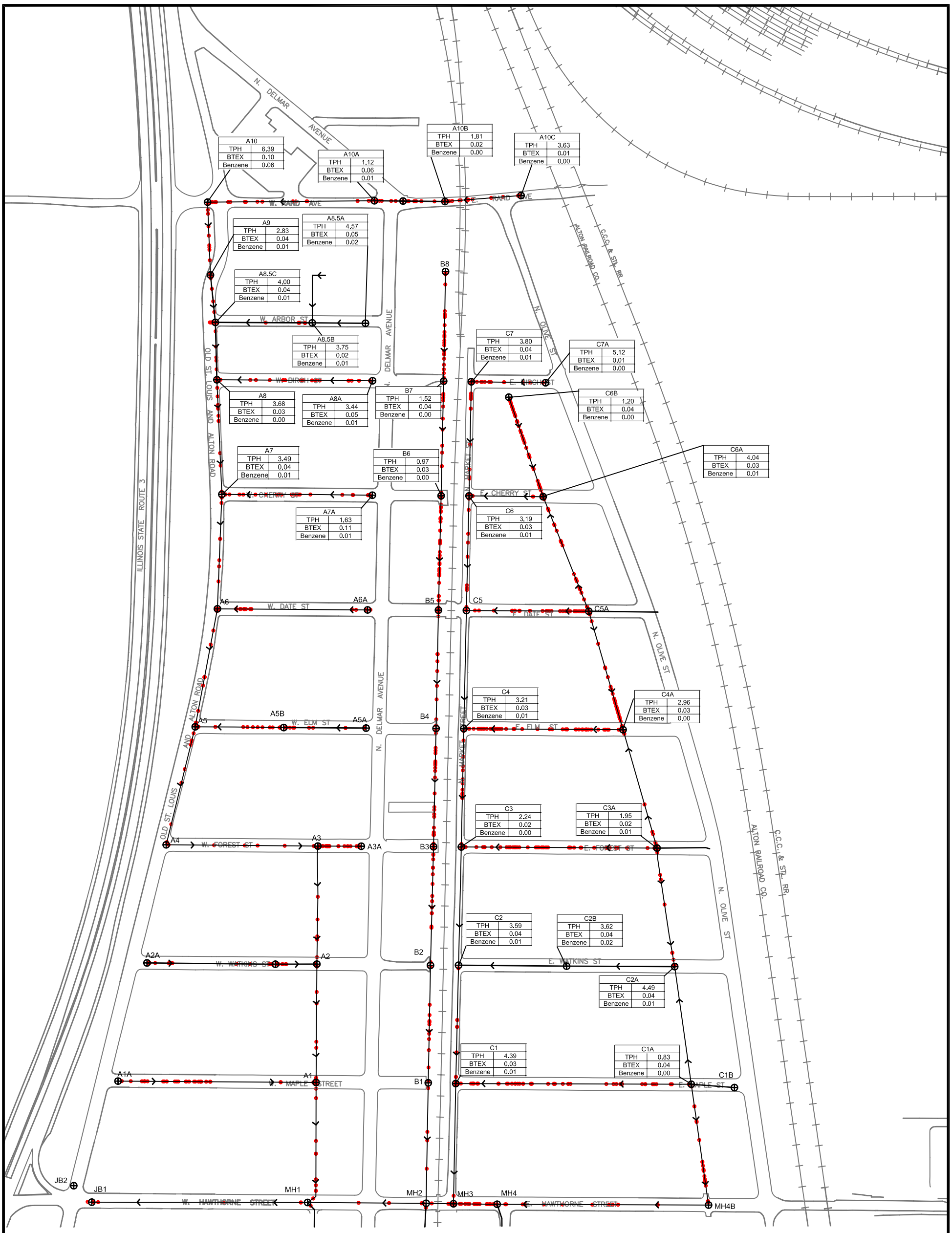
NOTES:
Compound results reported in micrograms (µg) per sorber
MDL - Method Detection Limit
BDL-below detection limit (Compound detected below the MDL
- cannot quantify with confidence)
ND-non detect
NA - No MDL is available for combinations of analytes as they
are a summation of the individual compounds

TABLE J-1
LABORATORY ANALYTICAL RESULTS - PASSIVE SEWER VAPOR SAMPLES

Hartford Working Group
Hartford, Illinois

Sewer Manhole Label		C7	C7	C7	C7	C7A	C7A	C7A	C7A	C7A	C7A	C7A
Approximate depth below sewer manhole rim (ft)		3	3	3	3	2	2	2	2	2	2	2
Gore-Sorber® Module Installation Date		2/23/05	3/9/05	3/21/05	4/4/05	1/13/05	1/26/05	2/10/05	2/23/05	3/9/05	3/21/05	4/4/05
Gore-Sorber® Module Retrieval Date		3/9/05	3/21/05	4/4/05	4/19/05	1/26/05	2/10/05	2/23/05	3/9/05	3/21/05	4/4/05	4/19/05
Compound	MDL											
Total Petroleum Hydrocarbons	NA	21.45	26.52	36.98	37.51	243.02	35.57	50.32	23.03	90.47	25.04	24.54
BTEX	NA	0.48	0.86	0.48	0.24	0.44	0.10	0.07	0.00	0.23	0.14	0.06
Benzene	0.03	0.05	0.06	0.05	0.04	0.19	BDL	0.04	BDL	0.13	0.06	BDL
Toluene	0.02	0.03	0.08	0.03	0.03	0.12	BDL	BDL	ND	0.05	BDL	BDL
Ethylbenzene	0.01	0.07	0.12	0.07	0.03	0.02	BDL	BDL	BDL	BDL	BDL	BDL
m,p-Xylene	0.01	0.24	0.42	0.22	0.09	0.06	0.06	0.03	BDL	0.02	0.05	0.04
o-Xylene	0.01	0.10	0.18	0.10	0.05	0.05	0.04	BDL	BDL	0.03	0.03	0.02
Undecane, tridecane & pentadecane	NA	0.30	0.35	0.32	0.26	0.34	0.12	0.02	0.00	0.02	0.02	0.00
Undecane	0.02	0.12	0.12	0.13	0.12	0.22	0.02	BDL	BDL	0.02	BDL	BDL
Tridecane	0.01	0.06	0.09	0.11	0.06	0.07	0.04	BDL	BDL	BDL	BDL	BDL
Pentadecane	0.02	0.12	0.14	0.08	0.08	0.04	0.06	0.02	BDL	BDL	0.02	BDL
1,3,5-Trimethylbenzene & 1,2,4-Trimethylbenzene	NA	0.40	0.56	0.63	0.25	0.17	0.23	0.09	0.00	0.02	0.17	0.17
1,2,4-Trimethylbenzene	0.02	0.26	0.36	0.44	0.18	0.10	0.14	0.03	BDL	0.02	0.13	0.12
1,3,5-Trimethylbenzene	0.03	0.13	0.19	0.19	0.07	0.07	0.09	0.06	BDL	BDL	0.05	0.05
Naphthalene and 2-Methylnaphthalene	NA	0.18	0.17	0.19	0.16	0.00	0.11	0.03	0.00	0.00	0.02	0.06
Naphthalene	0.01	0.13	0.11	0.13	0.11	BDL	0.05	BDL	ND	ND	BDL	0.04
2-Methylnaphthalene	0.02	0.06	0.05	0.06	0.05	BDL	0.06	0.03	BDL	BDL	0.02	0.02
Methyl tertiary-butyl ether	0.04	ND	ND	BDL	ND	ND	ND	ND	ND	ND	ND	ND
Octane	0.02	0.16	0.18	0.09	0.04	0.21	0.03	0.35	BDL	0.13	0.17	BDL
Isopentane	0.02	0.46	1.23	1.73	1.57	-	1.57	1.74	0.68	2.60	0.68	0.96

NOTES:
Compound results reported in micrograms (µg) per sorber
MDL - Method Detection Limit
BDL-below detection limit (Compound detected below the MDL
- cannot quantify with confidence)
ND-non detect
NA - No MDL is available for combinations of analytes as they
are a summation of the individual compounds



LEGEND:

⊕ VILLAGE SEWER MANHOLE LOCATION WITH ID LABEL

SEWER ALIGNMENT SHOWING FLOW DIRECTION

TPH TOTAL PETROLEUM HYDROCARBONS

BTEX BENZENE, TOLUENE, ETHYLBENZENE, TOTAL XYLENE

ANALYTICAL VALUES IN MICROGRAMS (ug)/DAY

● OBSERVED SEWER PIPELINE INTEGRITY BREACH (e.g. BREAK, CRACK, HOLE, JOINT DISPLACEMENT, BLOCKAGE). ADAPTED FROM CLAYTON GROUP SERVICES. REVIEW AND COMMENTS ON VIDEO SURVEY OF SEWERS PERFORMED BY WALDEN ASSOCIATED TECHNOLOGIES, INC. (GLEN CARBON, IL) IN 2003.

PHYSICAL FEATURES ADAPTED FROM CLAYTON GROUP SERVICES GIS DATABASE

SCALE IN FEET

0 250 500

N

DRAWN: JG	DATE: 4/4/05	PROJECT NO.
APPROVED: JLP	REVISED:	01005-093-351

GORE-SORBER ANALYTICAL DATA DAILY AVERAGE (12/01/04 - 4/19/05) HARTFORD, ILLINOIS

FIGURE J-1

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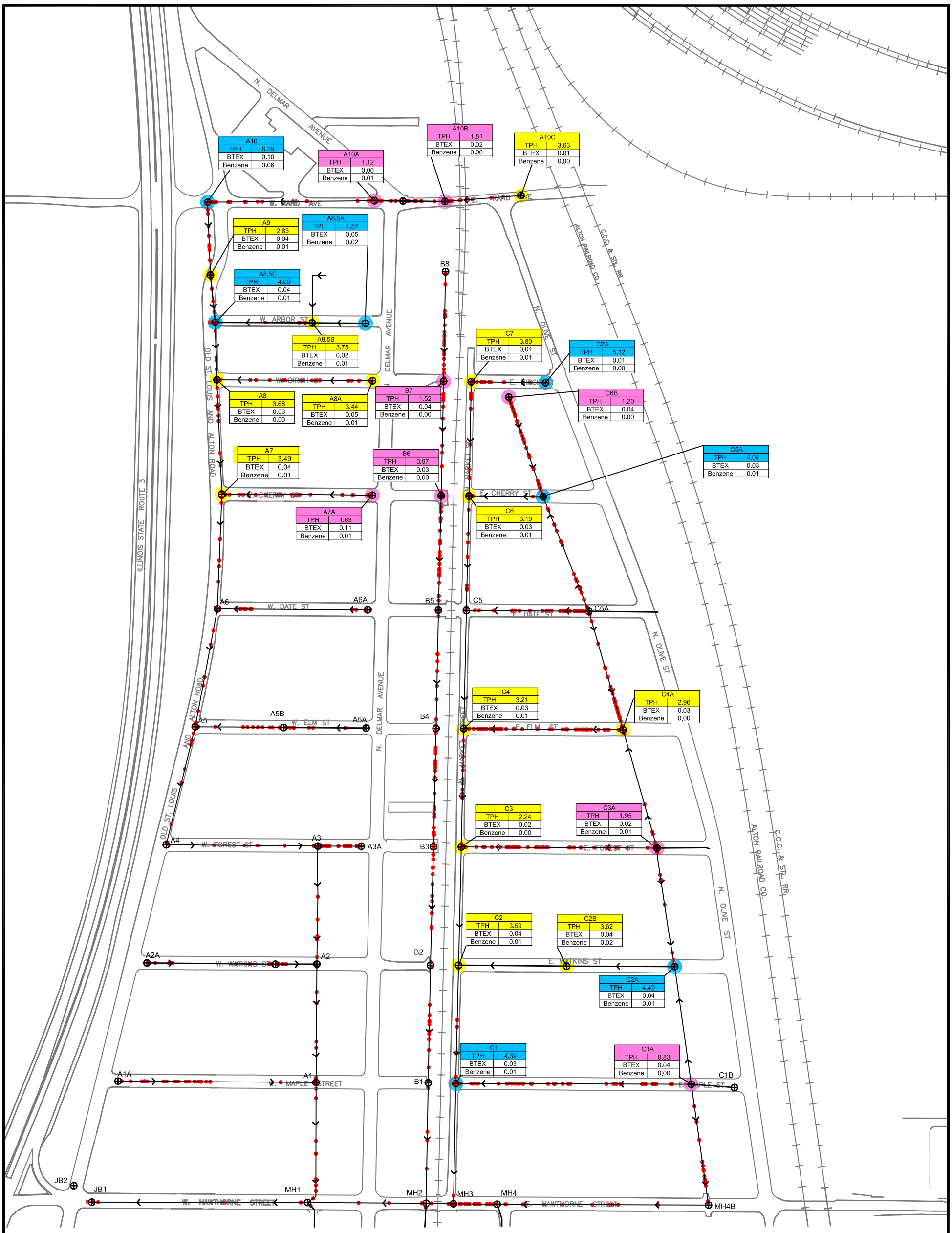

LEGEND:

- ⊕ VILLAGE SEWER MANHOLE LOCATION WITH ID LABEL
- ← SEWER ALIGNMENT SHOWING FLOW DIRECTION
- TPH TOTAL PETROLEUM HYDROCARBONS
- BTEX BENZENE, TOLUENE, ETHYLBENZENE, TOTAL XYLENE
- ANALYTICAL VALUES IN MICROGRAMS (ug)/DAY

- TPH > 4 ug/day (Max. 6.39)
- TPH > 2 and <4 ug/day
- TPH <2 ug/day (Min. 0.83)

- ● OBSERVED SEWER PIPELINE INTEGRITY BREACH (e.g. BREAK, CRACK, HOLE, JOINT DISPLACEMENT, BLOCKAGE). ADAPTED FROM CLAYTON GROUP SERVICES. REVIEW AND COMMENTS ON VIDEO SURVEY OF SEWERS PERFORMED BY WALDEN ASSOCIATED TECHNOLOGIES, INC. (GLEN CARBON, IL) IN 2003.

PHYSICAL FEATURES ADAPTED FROM CLAYTON GROUP SERVICES GIS DATABASE

SCALE IN FEET

0 250 500

N

DRAWN: JG	DATE: 4/4/05	PROJECT NO.
APPROVED: JLP	REVISED:	01005-093-351

GORE-SORBER ANALYTICAL DATA
DAILY AVERAGE SORBED CONCENTRATIONS
(12/01/04 - 4/19/05)
HARTFORD, ILLINOIS

FIGURE J-2

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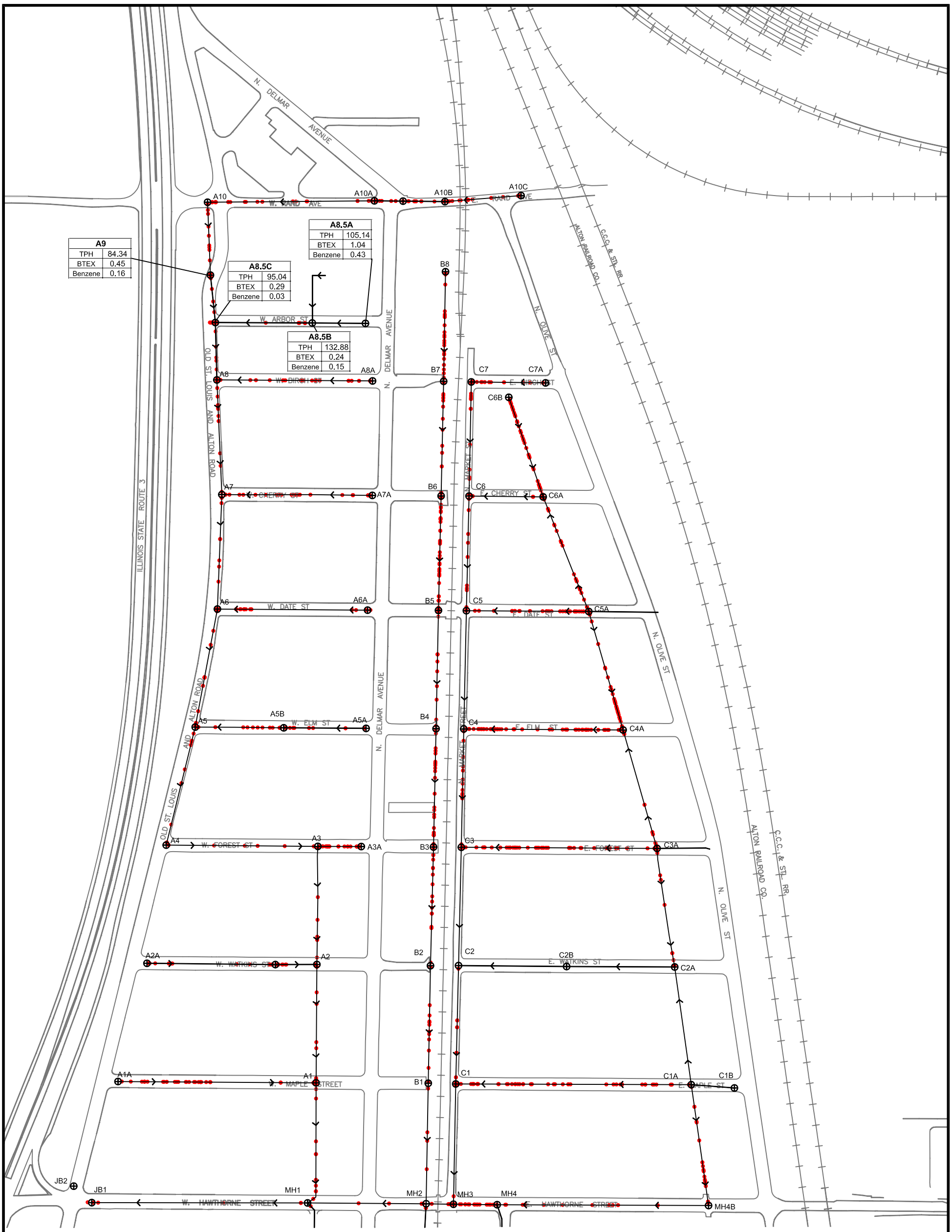

LEGEND:

⊕ VILLAGE SEWER MANHOLE LOCATION WITH ID LABEL

SEWER ALIGNMENT SHOWING FLOW DIRECTION

TPH TOTAL PETROLEUM HYDROCARBONS

BTEX BENZENE, TOLUENE, ETHYLBENZENE, TOTAL XYLENE

ANALYTICAL VALUES IN MICROGRAMS (ug)

● OBSERVED SEWER PIPELINE INTEGRITY BREACH (e.g. BREAK, CRACK, HOLE, JOINT DISPLACEMENT, BLOCKAGE). ADAPTED FROM CLAYTON GROUP SERVICES. REVIEW AND COMMENTS ON VIDEO SURVEY OF SEWERS PERFORMED BY WALDEN ASSOCIATED TECHNOLOGIES, INC. (GLEN CARBON, IL) IN 2003.

PHYSICAL FEATURES ADAPTED FROM CLAYTON GROUP SERVICES GIS DATABASE

SCALE IN FEET

0 250 500

N

DRAWN: JG	DATE: 4/4/05	PROJECT NO.
APPROVED: JLP	REVISED:	01005-093-351

GORE-SORBER ANALYTICAL DATA
(12/1/04 - 12/30/2004)
HARTFORD, ILLINOIS

FIGURE J-3

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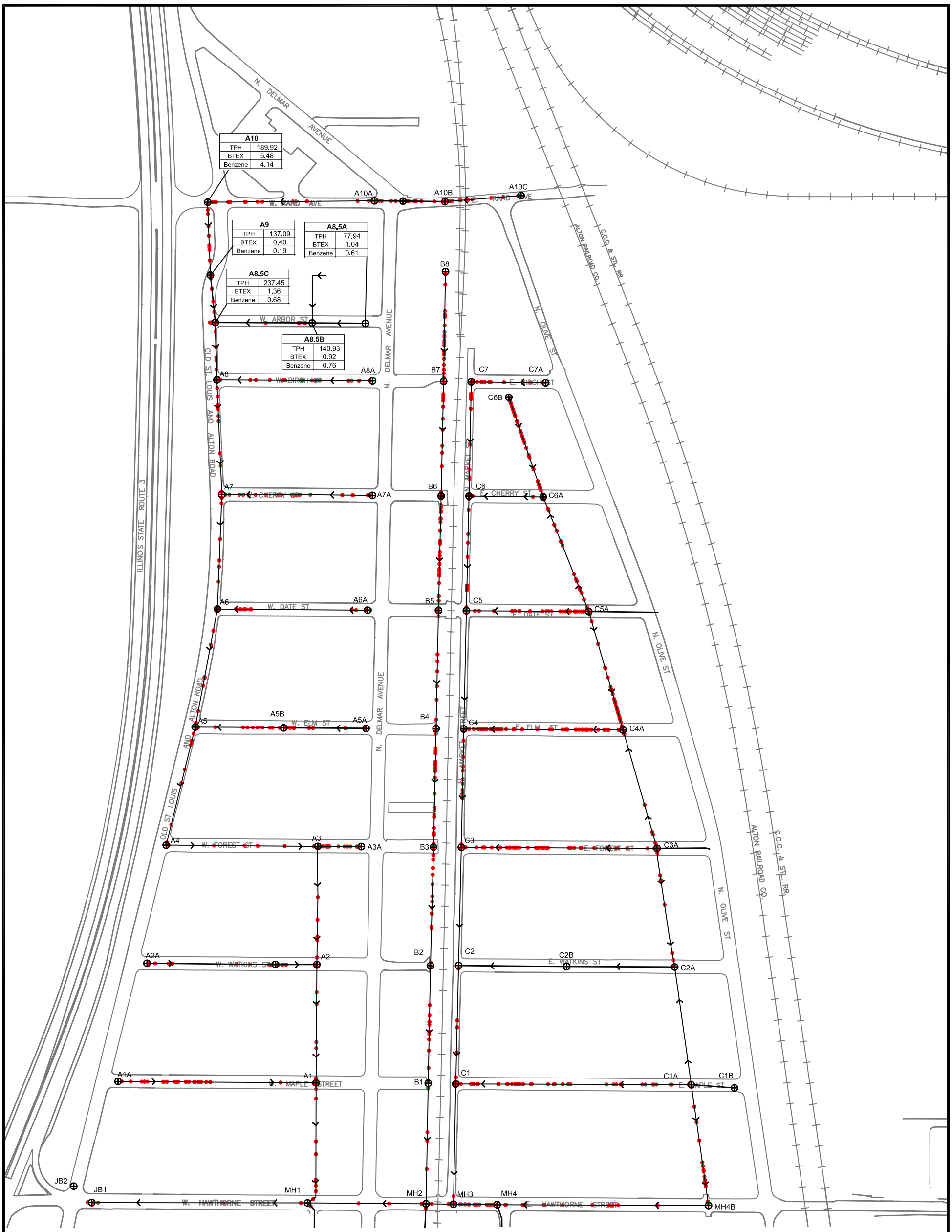

LEGEND:

⊕ VILLAGE SEWER MANHOLE LOCATION WITH ID LABEL

SEWER ALIGNMENT SHOWING FLOW DIRECTION

TPH TOTAL PETROLEUM HYDROCARBONS

BTEX BENZENE, TOLUENE, ETHYLBENZENE, TOTAL XYLENE

ANALYTICAL VALUES IN MICROGRAMS (ug)

● OBSERVED SEWER PIPELINE INTEGRITY BREACH (e.g. BREAK, CRACK, HOLE, JOINT DISPLACEMENT, BLOCKAGE). ADAPTED FROM CLAYTON GROUP SERVICES. REVIEW AND COMMENTS ON VIDEO SURVEY OF SEWERS PERFORMED BY WALDEN ASSOCIATED TECHNOLOGIES, INC. (GLEN CARBON, IL) IN 2003.

PHYSICAL FEATURES ADAPTED FROM CLAYTON GROUP SERVICES GIS DATABASE

SCALE IN FEET

0 250 500

N

DRAWN: JG	DATE: 4/4/05	PROJECT NO.
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GORE-SORBER ANALYTICAL DATA
(12/30/04 - 1/13/2005)
HARTFORD, ILLINOIS

FIGURE J-4

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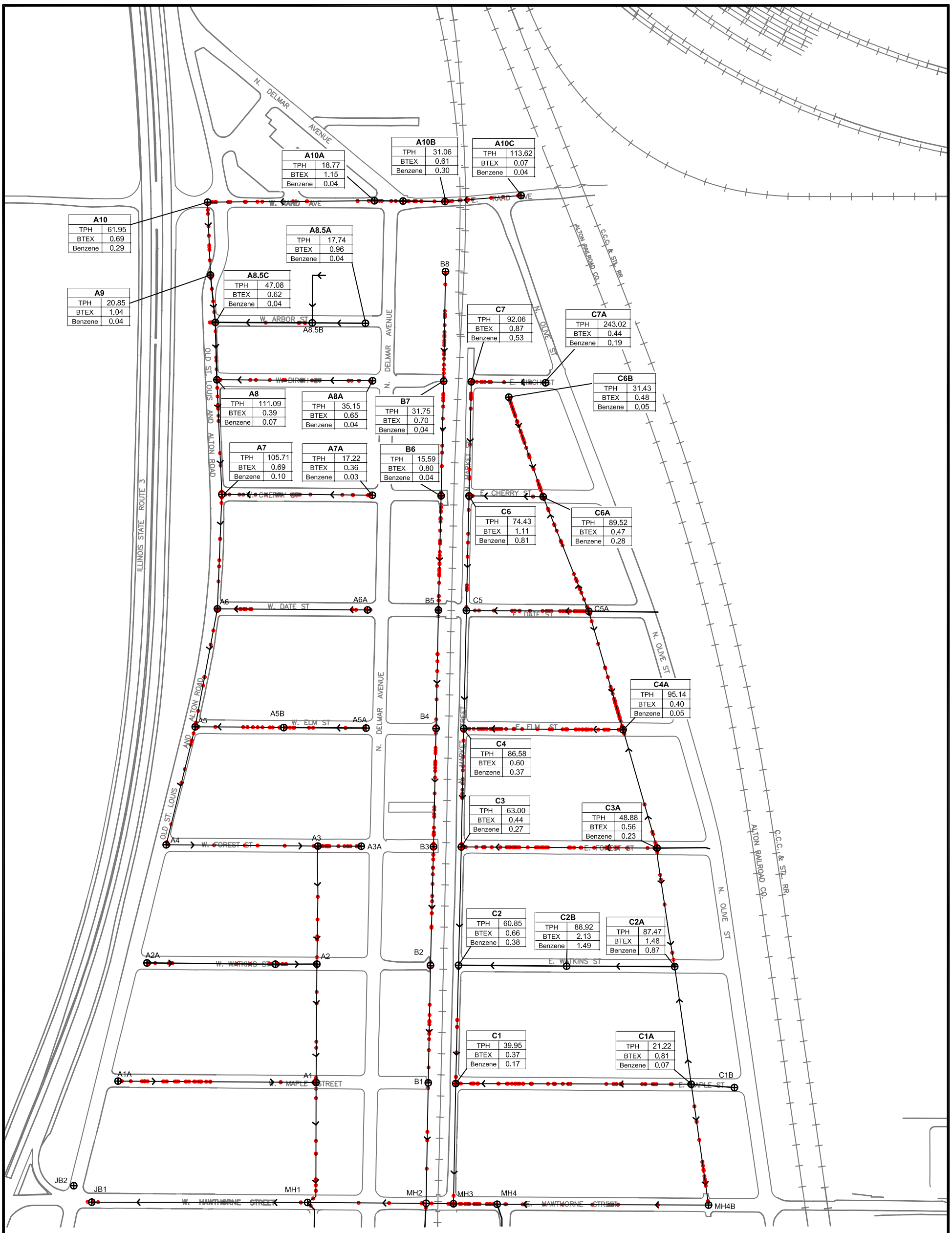

LEGEND:

⊕ VILLAGE SEWER MANHOLE LOCATION WITH ID LABEL

SEWER ALIGNMENT SHOWING FLOW DIRECTION

TPH TOTAL PETROLEUM HYDROCARBONS

BTEX BENZENE, TOLUENE, ETHYLBENZENE, TOTAL XYLENE

ANALYTICAL VALUES IN MICROGRAMS (ug)

● OBSERVED SEWER PIPELINE INTEGRITY BREACH (e.g. BREAK, CRACK, HOLE, JOINT DISPLACEMENT, BLOCKAGE). ADAPTED FROM CLAYTON GROUP SERVICES. REVIEW AND COMMENTS ON VIDEO SURVEY OF SEWERS PERFORMED BY WALDEN ASSOCIATED TECHNOLOGIES, INC. (GLEN CARBON, IL) IN 2003.

PHYSICAL FEATURES ADAPTED FROM CLAYTON GROUP SERVICES GIS DATABASE

SCALE IN FEET

0 250 500

N

DRAWN: JG	DATE: 4/4/05	PROJECT NO.
APPROVED: JLP	REVISED:	01005-093-351

GORE-SORBER ANALYTICAL DATA
(1/13/05 - 1/26/2005)
HARTFORD, ILLINOIS

FIGURE J-5

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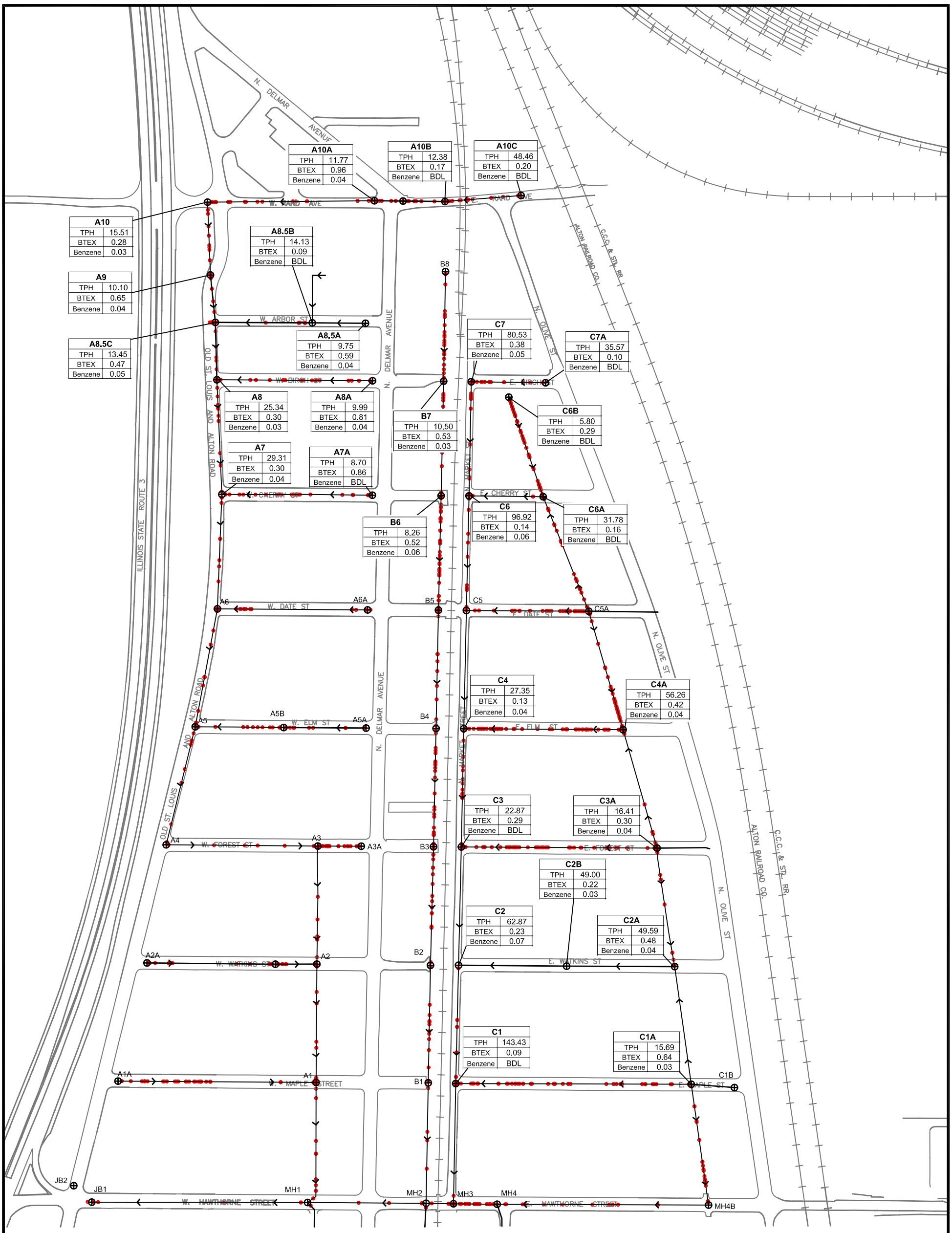

LEGEND:

⊕ VILLAGE SEWER MANHOLE LOCATION WITH ID LABEL

SEWER ALIGNMENT SHOWING FLOW DIRECTION

TPH TOTAL PETROLEUM HYDROCARBONS

BTEX BENZENE, TOLUENE, ETHYLBENZENE, TOTAL XYLENE

ANALYTICAL VALUES IN MICROGRAMS (ug)

● OBSERVED SEWER PIPELINE INTEGRITY BREACH (e.g. BREAK, CRACK, HOLE, JOINT DISPLACEMENT, BLOCKAGE). ADAPTED FROM CLAYTON GROUP SERVICES. REVIEW AND COMMENTS ON VIDEO SURVEY OF SEWERS PERFORMED BY WALDEN ASSOCIATED TECHNOLOGIES, INC. (GLEN CARBON, IL) IN 2003.

PHYSICAL FEATURES ADAPTED FROM CLAYTON GROUP SERVICES GIS DATABASE

SCALE IN FEET

0 250 500

N

DRAWN: JG	DATE: 4/4/05	PROJECT NO.
APPROVED: JLP	REVISED:	01005-093-351

GORE-SORBER ANALYTICAL DATA
(1/26/05 - 2/10/2005)
HARTFORD, ILLINOIS

FIGURE J-6

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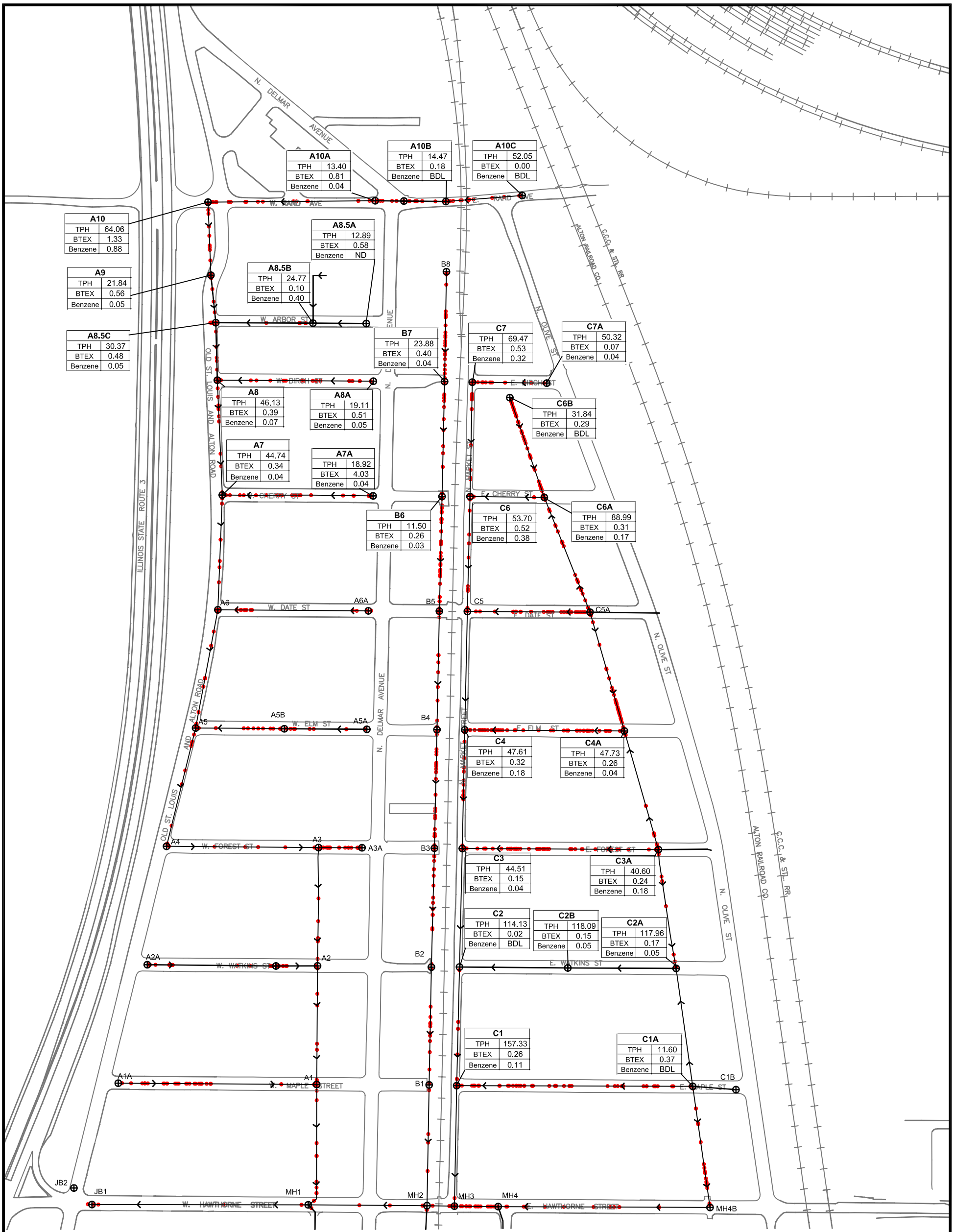

LEGEND:

⊕ VILLAGE SEWER MANHOLE LOCATION WITH ID LABEL

SEWER ALIGNMENT SHOWING FLOW DIRECTION

TPH TOTAL PETROLEUM HYDROCARBONS

BTEX BENZENE, TOLUENE, ETHYLBENZENE, TOTAL XYLENE

ANALYTICAL VALUES IN MICROGRAMS (ug)

● OBSERVED SEWER PIPELINE INTEGRITY BREACH (e.g. BREAK, CRACK, HOLE, JOINT DISPLACEMENT, BLOCKAGE). ADAPTED FROM CLAYTON GROUP SERVICES. REVIEW AND COMMENTS ON VIDEO SURVEY OF SEWERS PERFORMED BY WALDEN ASSOCIATED TECHNOLOGIES, INC. (GLEN CARBON, IL) IN 2003.

PHYSICAL FEATURES ADAPTED FROM CLAYTON GROUP SERVICES GIS DATABASE

SCALE IN FEET

0 250 500

N

DRAWN: JG	DATE: 4/4/05	PROJECT NO.
APPROVED: JLP	REVISED:	01005-093-351

GORE-SORBER ANALYTICAL DATA
(2/10/05 - 2/23/2005)
HARTFORD, ILLINOIS

FIGURE J-7

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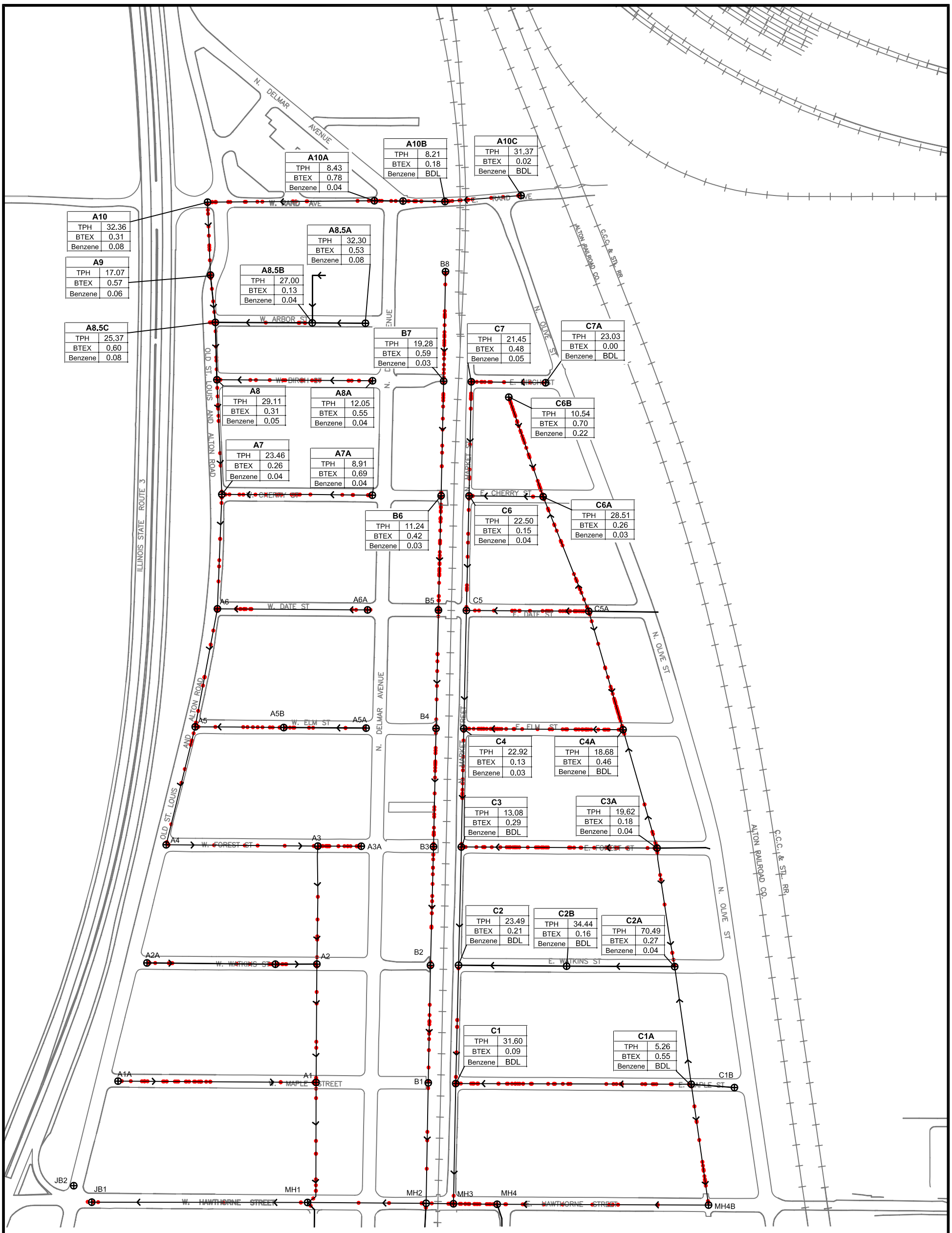

LEGEND:

⊕ VILLAGE SEWER MANHOLE LOCATION WITH ID LABEL

SEWER ALIGNMENT SHOWING FLOW DIRECTION

TPH TOTAL PETROLEUM HYDROCARBONS

BTEX BENZENE, TOLUENE, ETHYLBENZENE, TOTAL XYLENE

ANALYTICAL VALUES IN MICROGRAMS (ug)

● OBSERVED SEWER PIPELINE INTEGRITY BREACH (e.g. BREAK, CRACK, HOLE, JOINT DISPLACEMENT, BLOCKAGE). ADAPTED FROM CLAYTON GROUP SERVICES. REVIEW AND COMMENTS ON VIDEO SURVEY OF SEWERS PERFORMED BY WALDEN ASSOCIATED TECHNOLOGIES, INC. (GLEN CARBON, IL) IN 2003.

PHYSICAL FEATURES ADAPTED FROM CLAYTON GROUP SERVICES GIS DATABASE

SCALE IN FEET

0 250 500

N

DRAWN: JG	DATE: 4/4/05	PROJECT NO.
APPROVED: JLP	REVISED:	01005-093-351

GORE-SORBER ANALYTICAL DATA
(2/23/05 - 3/9/2005)
HARTFORD, ILLINOIS

FIGURE J-8

ENSR INTERNATIONAL

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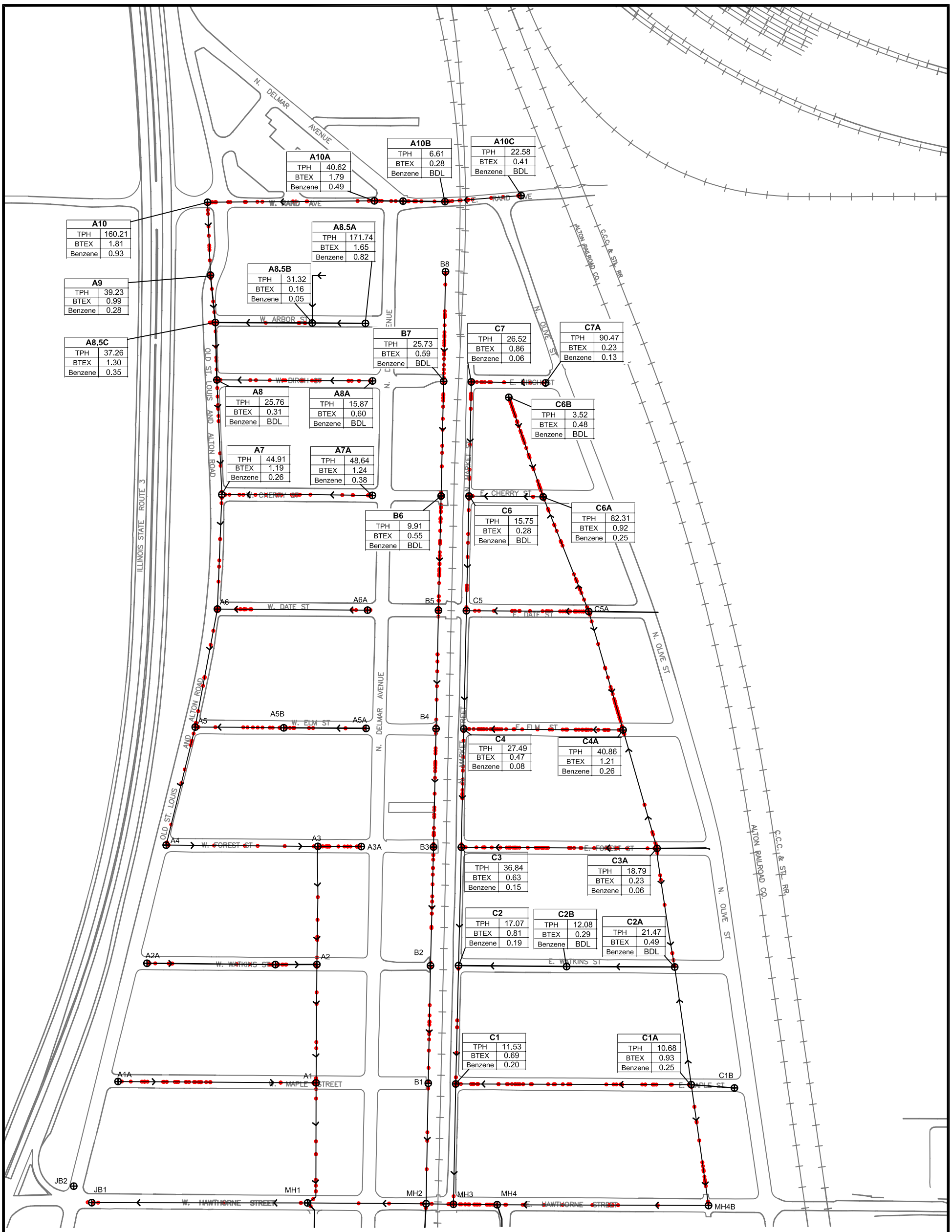
U:\Cad_Drive\01000-01999\1005\093\CSM Report\Appendix Figures\Appendix J\1005-093_Fig J-8 Sewer Analytical Data 2-23-05 Thru 3-9-05.dwg



LEGEND:

⊕ VILLAGE SEWER MANHOLE LOCATION WITH ID LABEL

SEWER ALIGNMENT SHOWING FLOW DIRECTION

TPH TOTAL PETROLEUM HYDROCARBONS

BTEX BENZENE, TOLUENE, ETHYLBENZENE, TOTAL XYLENE

ANALYTICAL VALUES IN MICROGRAMS (ug)

● OBSERVED SEWER PIPELINE INTEGRITY BREACH (e.g. BREAK, CRACK, HOLE, JOINT DISPLACEMENT, BLOCKAGE). ADAPTED FROM CLAYTON GROUP SERVICES. REVIEW AND COMMENTS ON VIDEO SURVEY OF SEWERS PERFORMED BY WALDEN ASSOCIATED TECHNOLOGIES, INC. (GLEN CARBON, IL) IN 2003.

PHYSICAL FEATURES ADAPTED FROM CLAYTON GROUP SERVICES GIS DATABASE

SCALE IN FEET

0 250 500

N

DRAWN: JG	DATE: 4/4/05	PROJECT NO.
APPROVED: JLP	REVISED:	01005-093-351

GORE-SORBER ANALYTICAL DATA
(3/9/05 - 3/21/2005)
HARTFORD, ILLINOIS

FIGURE J-9

ENSR INTERNATIONAL

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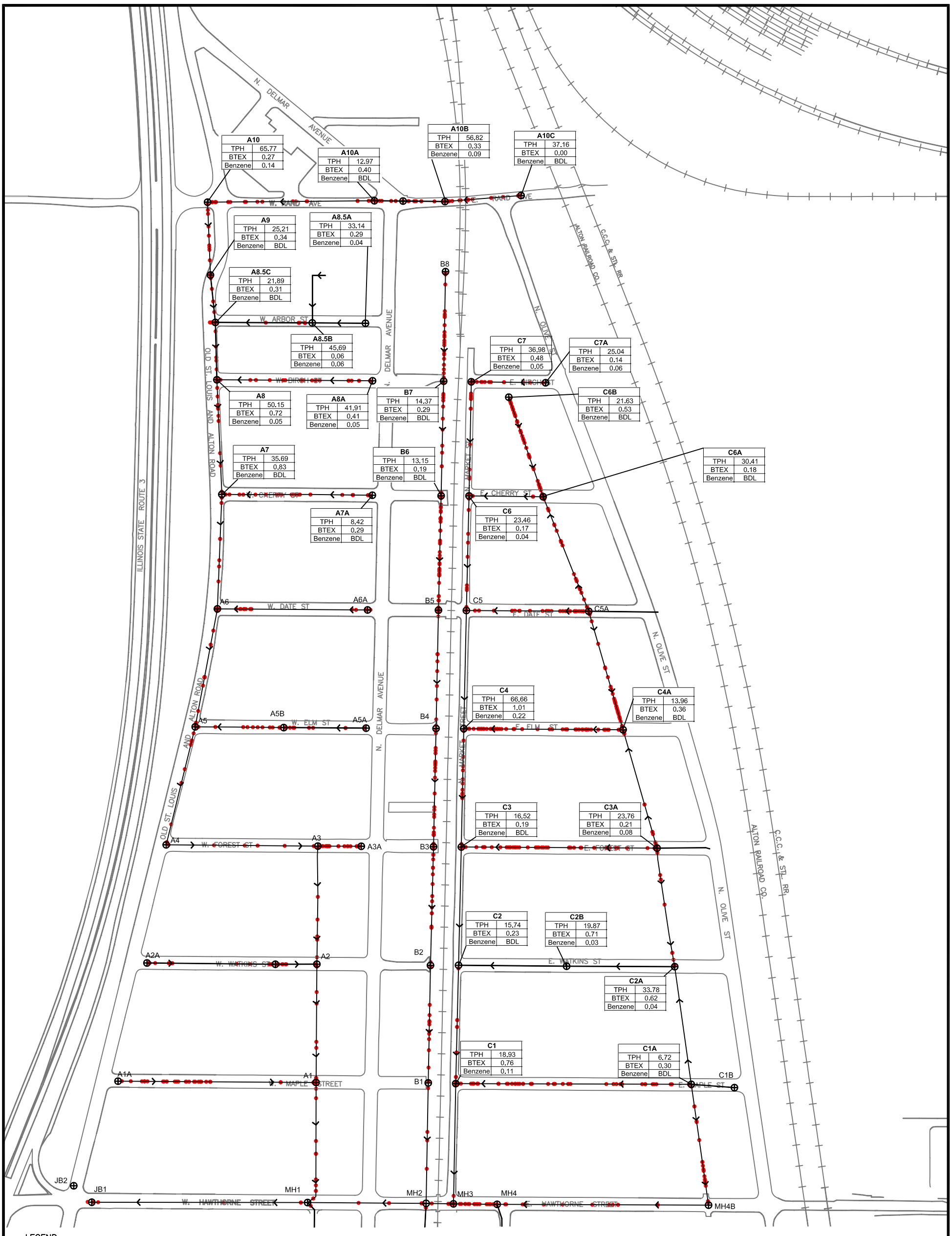
U:\Cad_Drive\01000-01999\1005\093\CSM Report\Appendix Figures\Appendix J\1005-093_Fig J-9 Gore-Sorber Analytical Data 3-9-05 Thru 3-21-05.dwg



LEGEND:

⊕ VILLAGE SEWER MANHOLE LOCATION WITH ID LABEL

← SEWER ALIGNMENT SHOWING FLOW DIRECTION

TPH TOTAL PETROLEUM HYDROCARBONS

BTEX BENZENE, TOLUENE, ETHYLBENZENE, TOTAL XYLENE

ANALYTICAL VALUES IN MICROGRAMS (ug)/DAY

● OBSERVED SEWER PIPELINE INTEGRITY BREACH (e.g. BREAK, CRACK, HOLE, JOINT DISPLACEMENT, BLOCKAGE). ADAPTED FROM CLAYTON GROUP SERVICES. REVIEW AND COMMENTS ON VIDEO SURVEY OF SEWERS PERFORMED BY WALDEN ASSOCIATED TECHNOLOGIES, INC. (GLEN CARBON, IL) IN 2003.

PHYSICAL FEATURES ADAPTED FROM CLAYTON GROUP SERVICES GIS DATABASE

SCALE IN FEET

0 250 500

N

DRAWN: JG	DATE: 4/20/05	PROJECT NO.
APPROVED: JLP	REVISED:	01005-093-351

GORE-SORBER ANALYTICAL DATA
(3/21/05 - 4/04/05)
HARTFORD, ILLINOIS

FIGURE J-10

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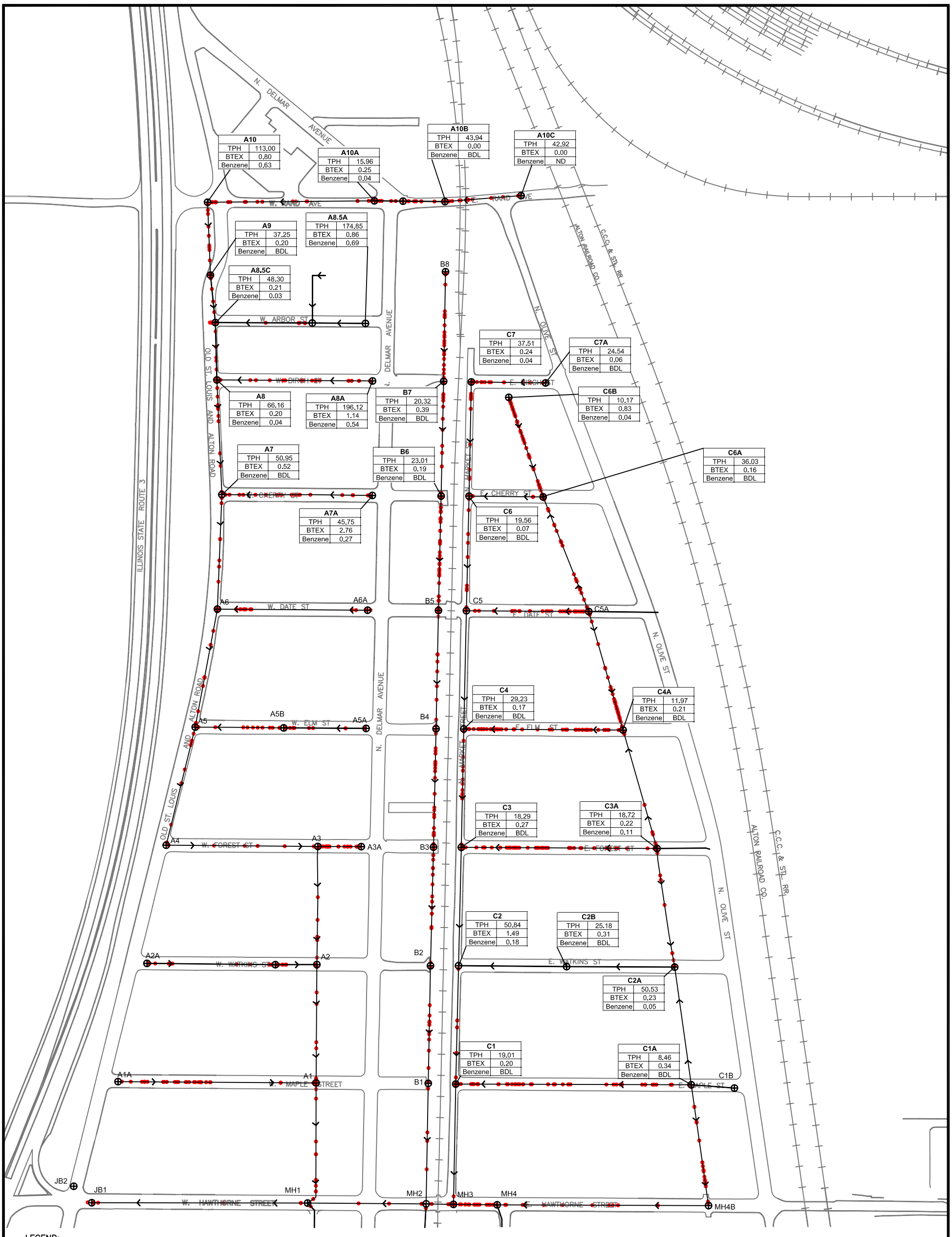
U:\Cad_Drive\01000-01999\1005\093\CSM Report\Appendix Figures\Appendix J\1005-093_Fig J-10 Sewer Analytical Data 3-21-05 Thru 4-4-05.dwg



LEGEND:

⊕ VILLAGE SEWER MANHOLE LOCATION WITH ID LABEL

← SEWER ALIGNMENT SHOWING FLOW DIRECTION

TPH TOTAL PETROLEUM HYDROCARBONS

BTEX BENZENE, TOLUENE, ETHYLBENZENE, TOTAL XYLENE

ANALYTICAL VALUES IN MICROGRAMS (ug)/DAY

● OBSERVED SEWER PIPELINE INTEGRITY BREACH (e.g. BREAK, CRACK, HOLE, JOINT DISPLACEMENT, BLOCKAGE). ADAPTED FROM CLAYTON GROUP SERVICES. REVIEW AND COMMENTS ON VIDEO SURVEY OF SEWERS PERFORMED BY WALDEN ASSOCIATED TECHNOLOGIES, INC. (GLEN CARBON, IL) IN 2003.

PHYSICAL FEATURES ADAPTED FROM CLAYTON GROUP SERVICES GIS DATABASE

SCALE IN FEET

0 250 500

N

DRAWN: JG	DATE: 4/27/05	PROJECT NO.
APPROVED: JLP	REVISED:	01005-093-351

GORE-SORBER ANALYTICAL DATA
(4/04/05 - 4/19/05)
HARTFORD, ILLINOIS

FIGURE J-11

ENSR INTERNATIONAL

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U:\Cad_Drive\01000-01999\1005\093\CSM Report\Appendix Figures\Appendix J\1005-093_Fig J-11 Gore-Sorber Analytical Data 4-4-05 Thru 4-19-05.dwg

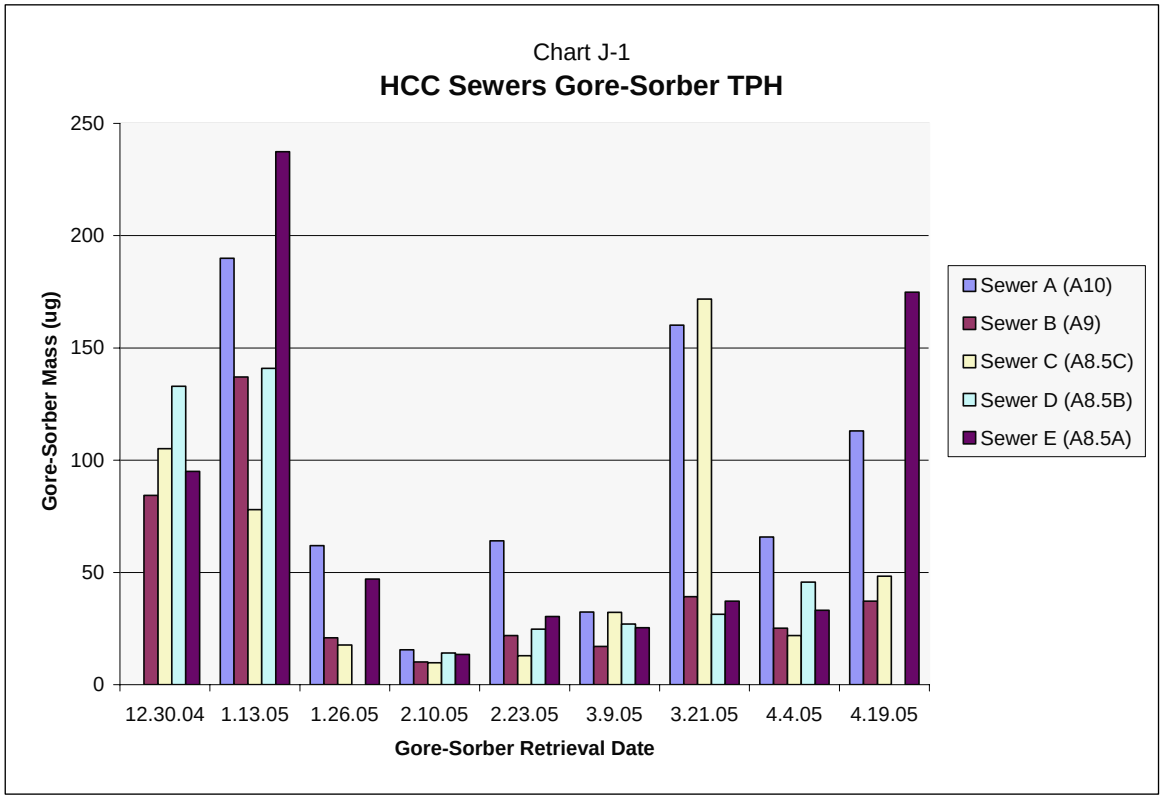
Chart J-1
HCC Sewers Gore-Sorber TPH
Gore-Sorber Mass (ug)
250
200
150
100
50
0
12.30.04
1.13.05
1.26.05
2.10.05
2.23.05
3.9.05
3.21.05
4.4.05
4.19.05
Gore-Sorber Retrieval Date
Sewer A (A10)
Sewer B (A9)
Sewer C (A8.5C)
Sewer D (A8.5B)
Sewer E (A8.5A)

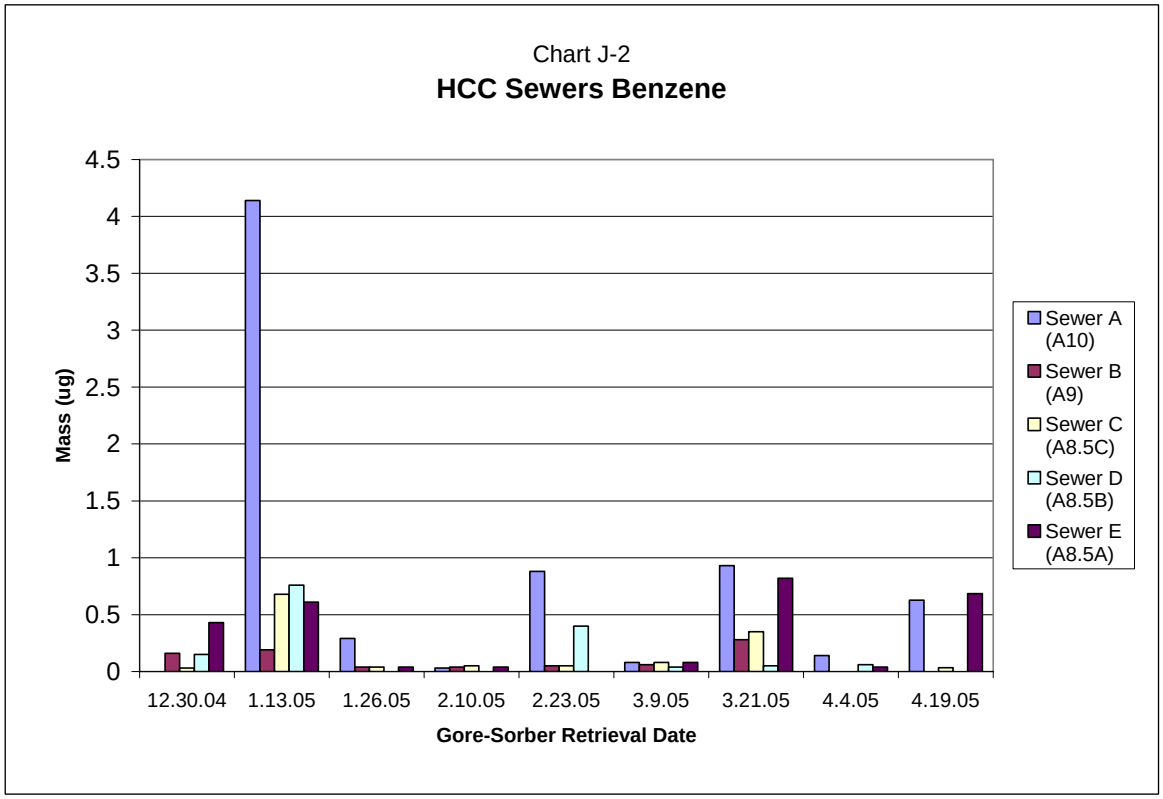
Chart J-2
HCC Sewers Benzene
Mass (ug)
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
12.30.04
1.13.05
1.26.05
2.10.05
2.23.05
3.9.05
3.21.05
4.4.05
4.19.05
Gore-Sorber Retrieval Date
Sewer A (A10)
Sewer B (A9)
Sewer C (A8.5C)
Sewer D (A8.5B)
Sewer E (A8.5A)

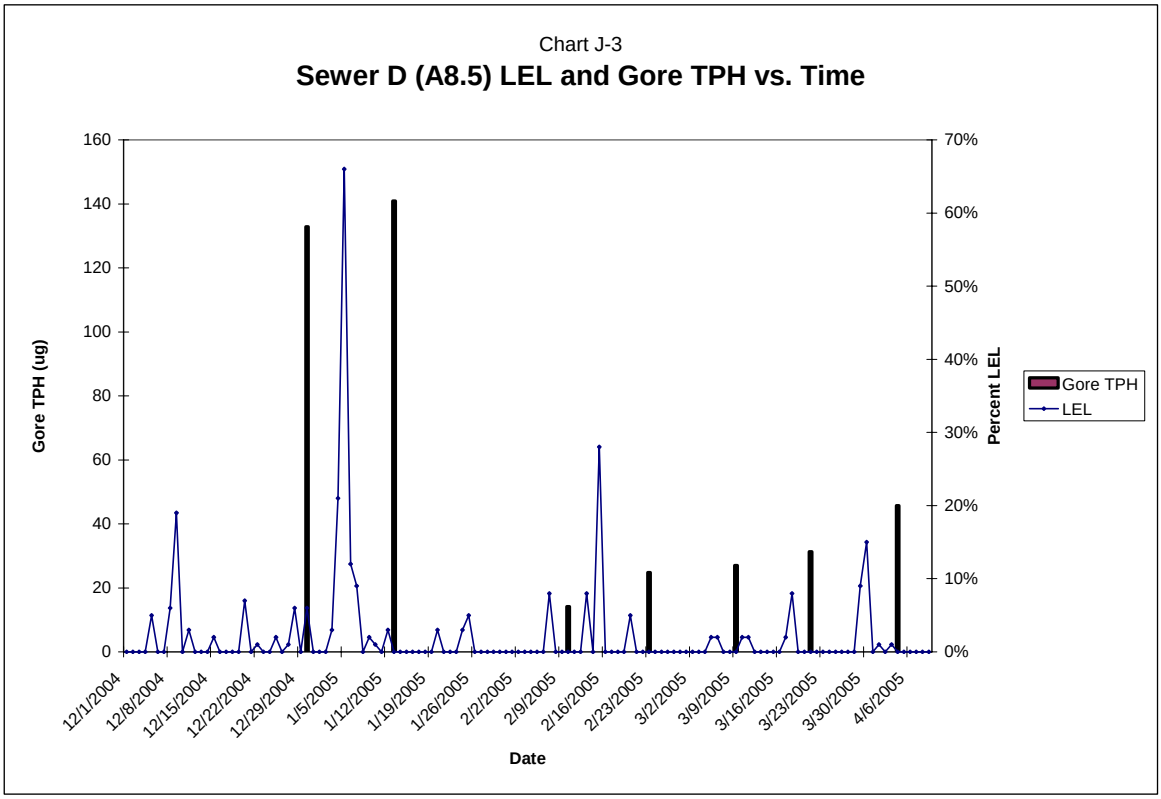
Chart J-3
Sewer D (A8.5) LEL and Gore TPH vs. Time
Gore TPH (ug)
Percent LEL
Date
Gore TPH
LEL
0
20
40
60
80
100
120
140
160
0%
10%
20%
30%
40%
50%
60%
70%
12/1/2004
12/8/2004
12/15/2004
12/22/2004
12/29/2004
1/5/2005
1/12/2005
1/19/2005
1/26/2005
2/2/2005
2/9/2005
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3/23/2005
3/30/2005
4/6/2005

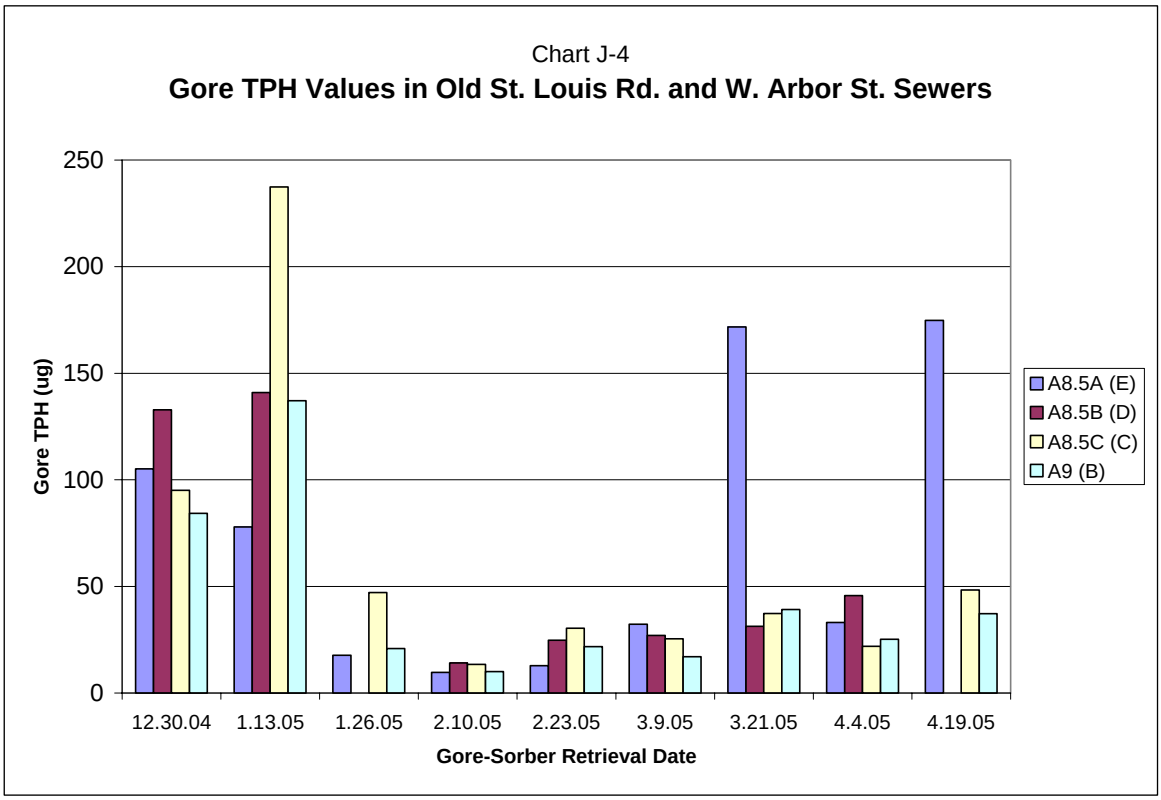


Chart J-4
Gore TPH Values in Old St. Louis Rd. and W. Arbor St. Sewers
Gore TPH (ug)
Gore-Sorber Retrieval Date
A8.5A (E)
A8.5B (D)
A8.5C (C)
A9 (B)
0
50
100
150
200
250
12.30.04
1.13.05
1.26.05
2.10.05
2.23.05
3.9.05
3.21.05
4.4.05
4.19.05

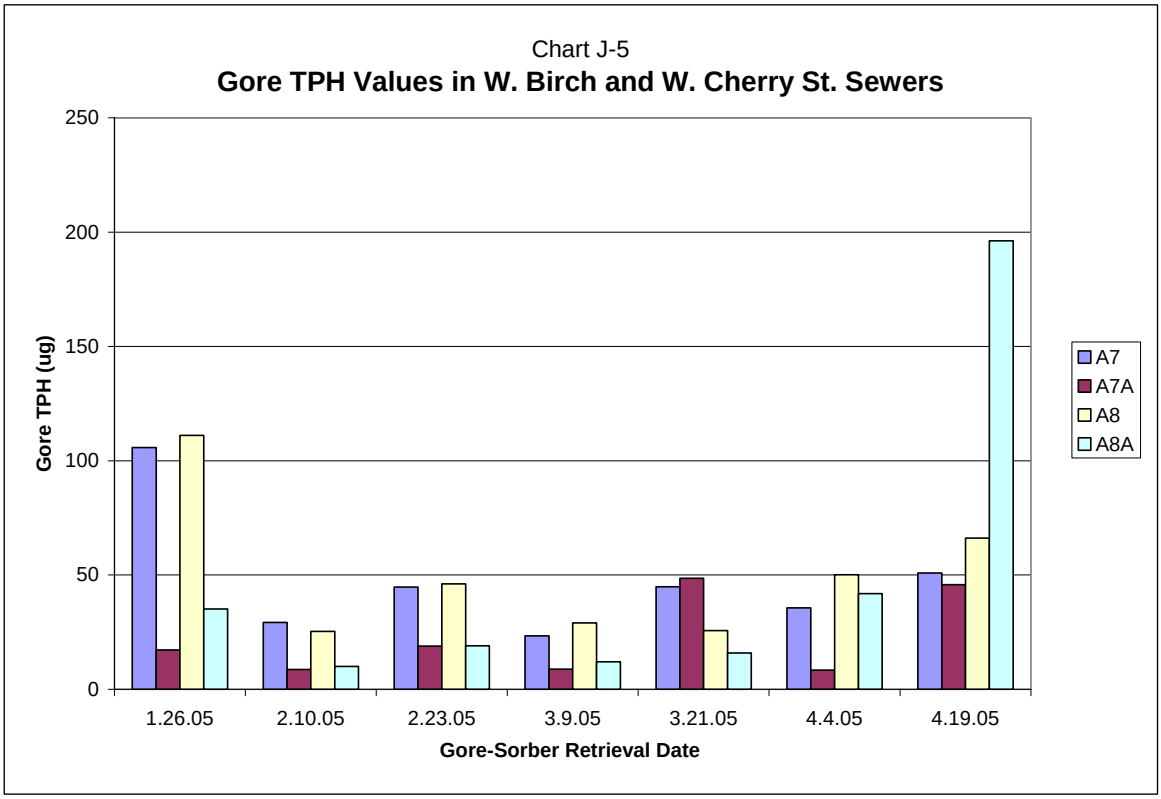


Chart J-5
Gore TPH Values in W. Birch and W. Cherry St. Sewers
Gore TPH (ug)
250
200
150
100
50
0
1.26.05
2.10.05
2.23.05
3.9.05
3.21.05
4.4.05
4.19.05
Gore-Sorber Retrieval Date
A7
A7A
A8
A8A

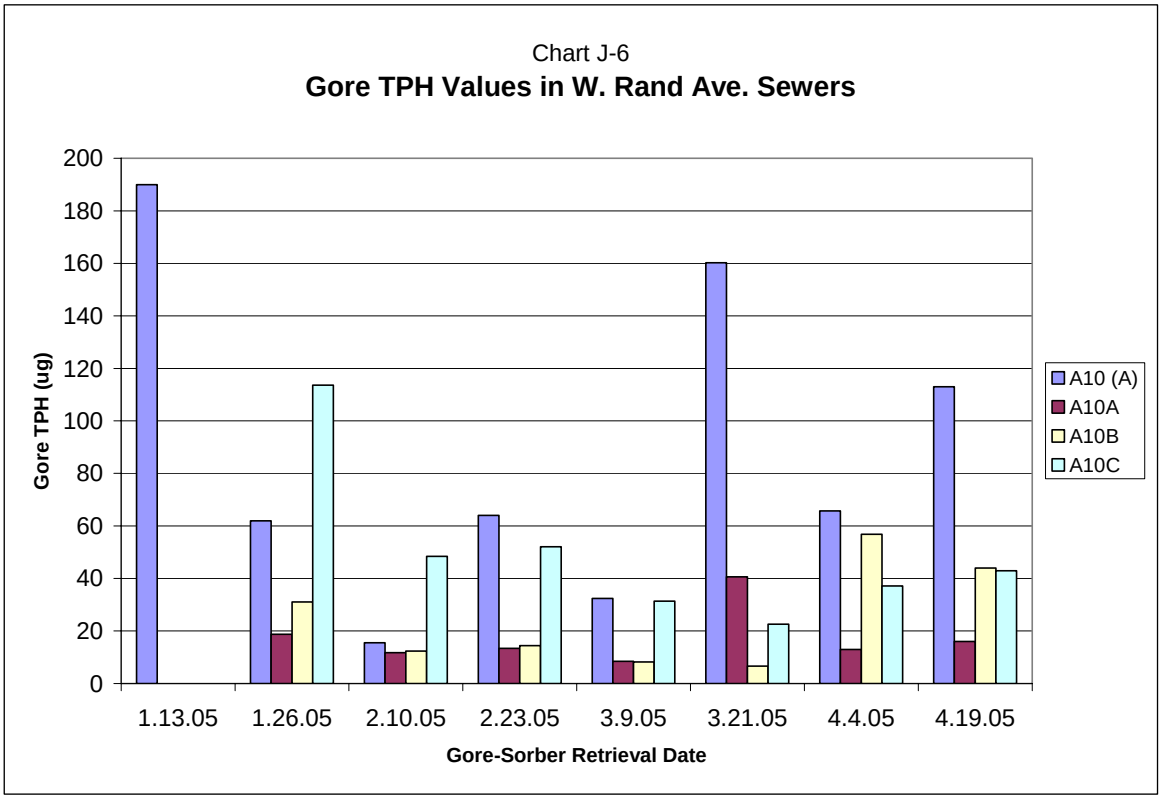


Chart J-6
Gore TPH Values in W. Rand Ave. Sewers
Gore TPH (ug)
200
180
160
140
120
100
80
60
40
20
0
1.13.05
1.26.05
2.10.05
2.23.05
3.9.05
3.21.05
4.4.05
4.19.05
Gore-Sorber Retrieval Date
A10 (A)
A10A
A10B
A10C

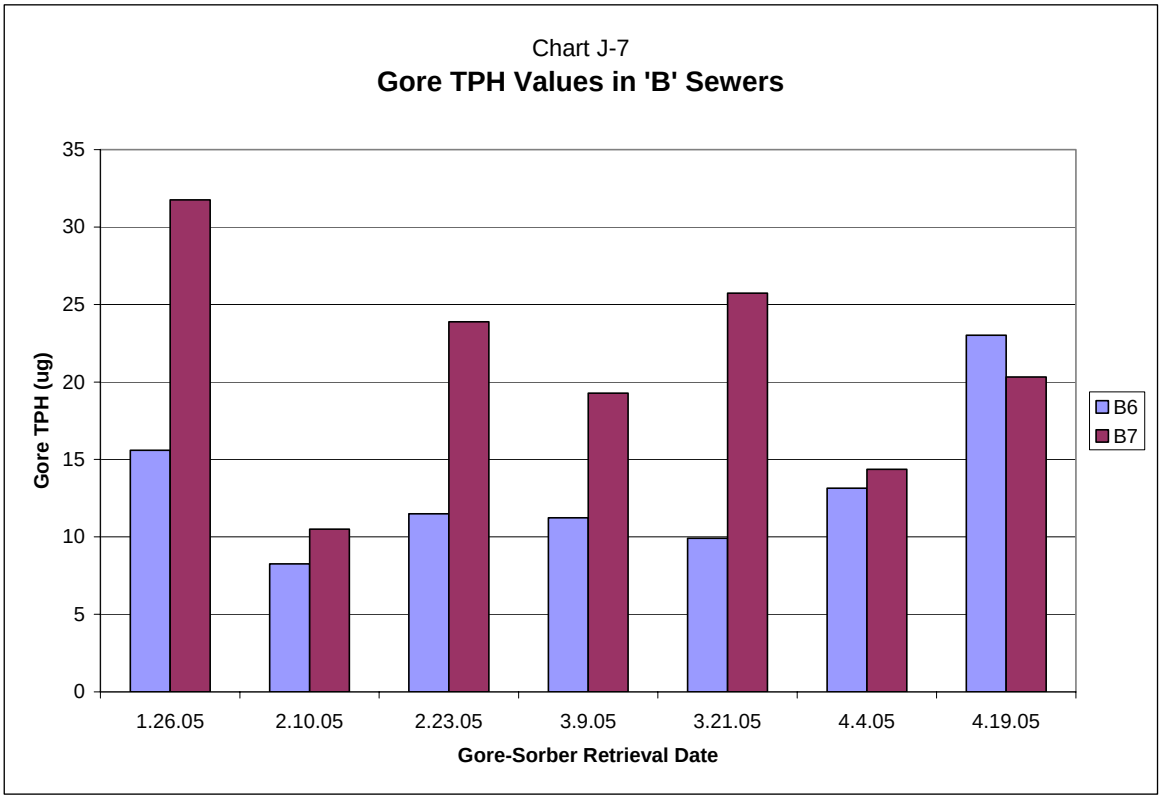


Chart J-7
Gore TPH Values in 'B' Sewers
Gore TPH (ug)
35
30
25
20
15
10
5
0
1.26.05
2.10.05
2.23.05
3.9.05
3.21.05
4.4.05
4.19.05
Gore-Sorber Retrieval Date
B6
B7

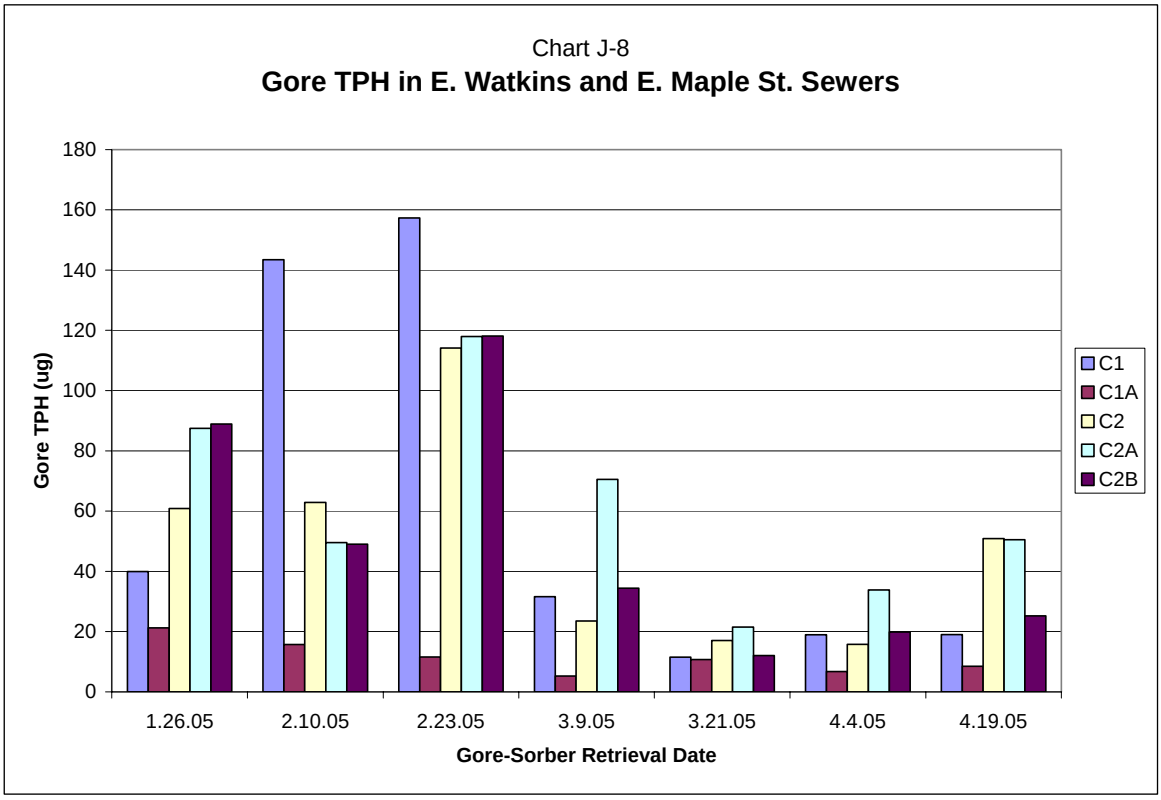


Chart J-8
Gore TPH in E. Watkins and E. Maple St. Sewers
Gore TPH (ug)
180
160
140
120
100
80
60
40
20
0
1.26.05
2.10.05
2.23.05
3.9.05
3.21.05
4.4.05
4.19.05
Gore-Sorber Retrieval Date
C1
C1A
C2
C2A
C2B

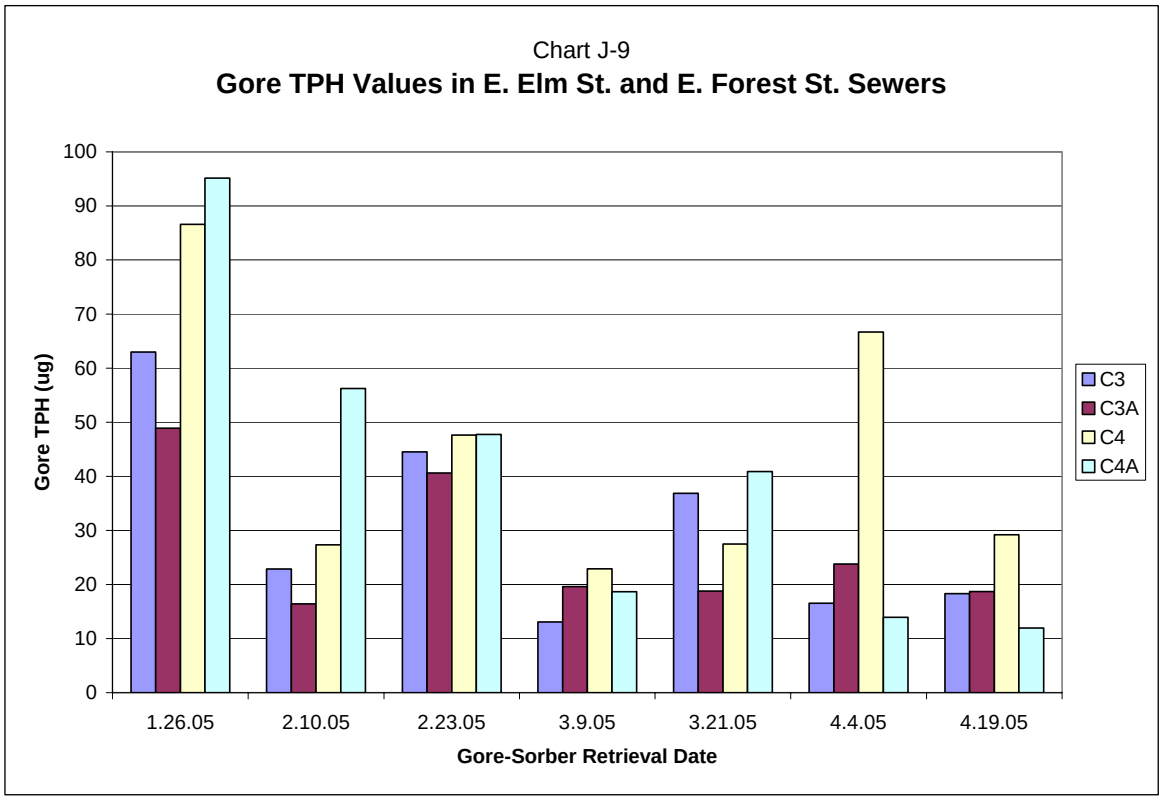


Chart J-9
Gore TPH Values in E. Elm St. and E. Forest St. Sewers
Gore TPH (ug)
100
90
80
70
60
50
40
30
20
10
0
1.26.05
2.10.05
2.23.05
3.9.05
3.21.05
4.4.05
4.19.05
Gore-Sorber Retrieval Date
C3
C3A
C4
C4A

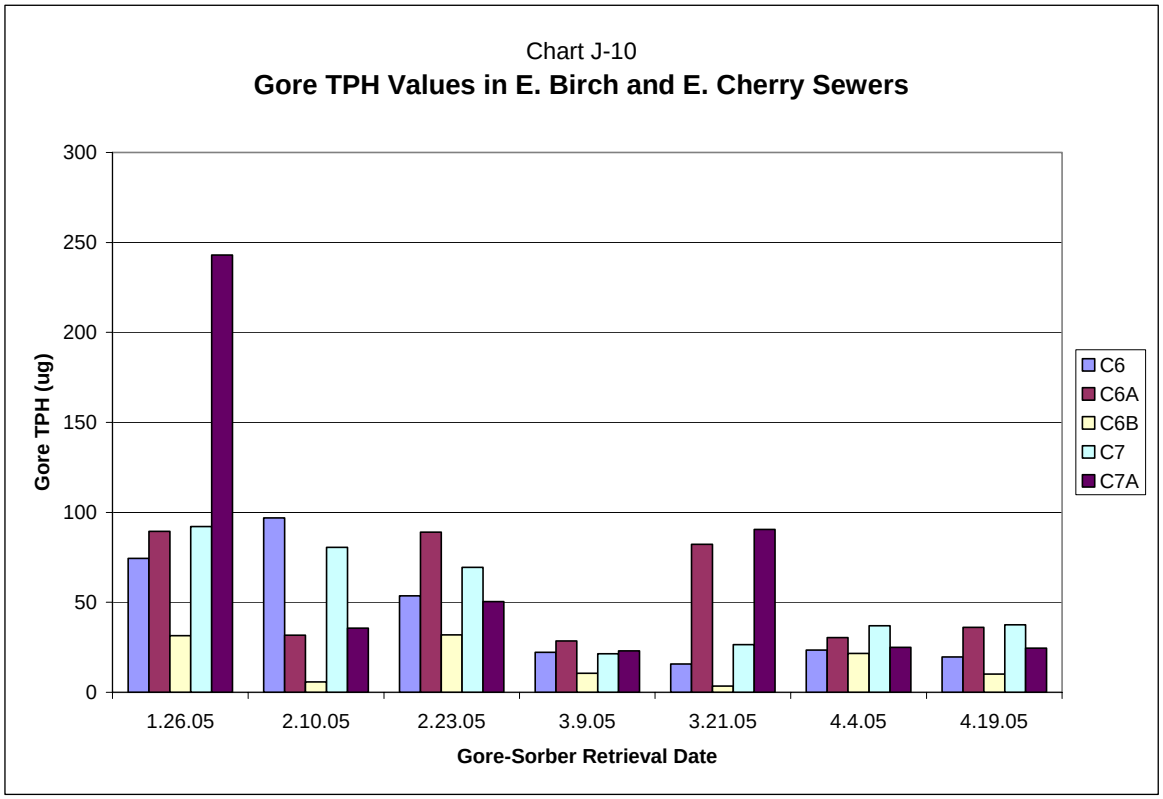


Chart J-10
Gore TPH Values in E. Birch and E. Cherry Sewers
Gore TPH (ug)
300
250
200
150
100
50
0
1.26.05
2.10.05
2.23.05
3.9.05
3.21.05
4.4.05
4.19.05
Gore-Sorber Retrieval Date
C6
C6A
C6B
C7
C7A

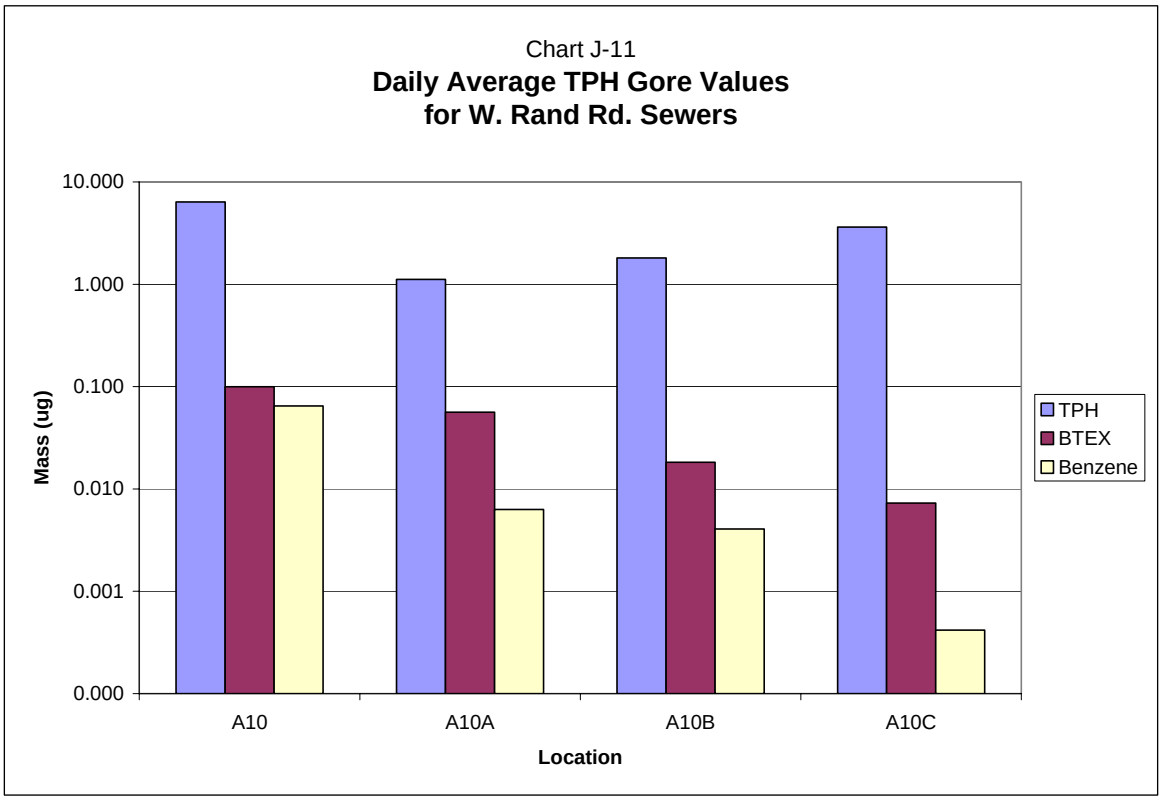


Chart J-11
Daily Average TPH Gore Values
for W. Rand Rd. Sewers
10.000
1.000
0.100
0.010
0.001
0.000
Mass (ug)
A10
A10A
A10B
A10C
Location
TPH
BTEX
Benzene

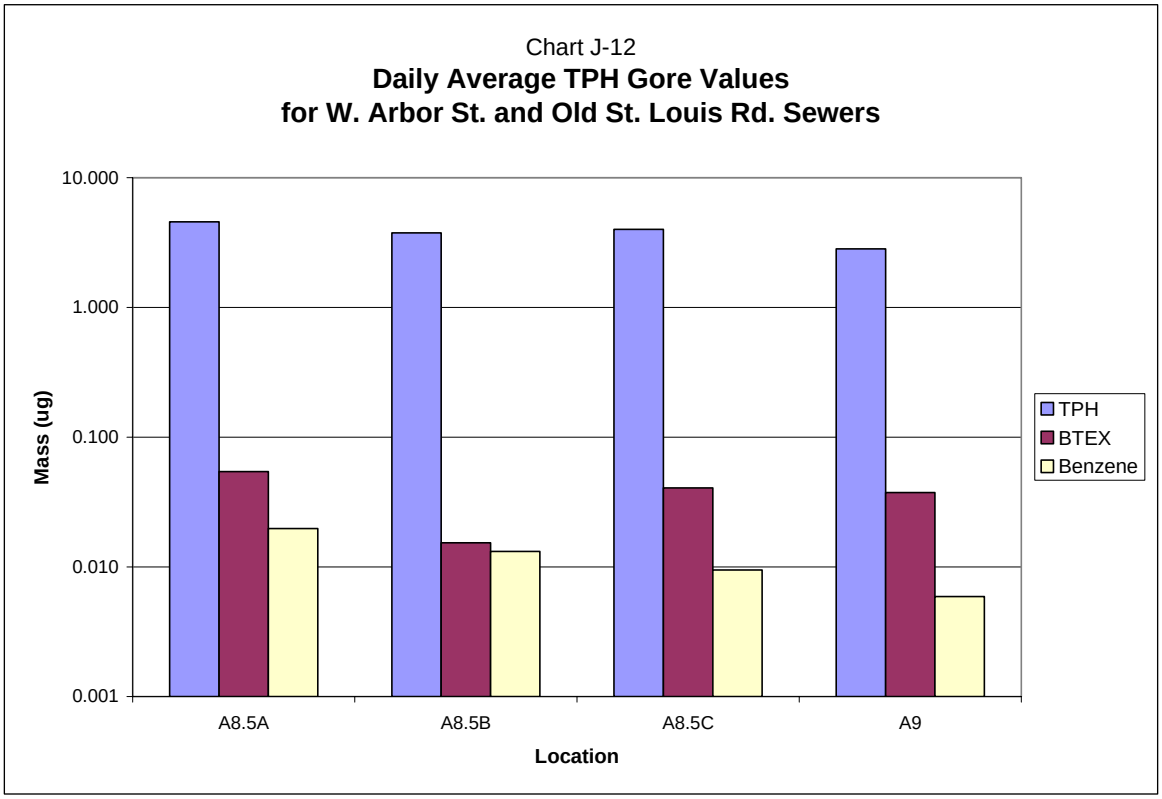


Chart J-12
Daily Average TPH Gore Values
for W. Arbor St. and Old St. Louis Rd. Sewers
10.000
1.000
0.100
0.010
0.001
Mass (ug)
A8.5A
A8.5B
A8.5C
A9
Location
TPH
BTEX
Benzene

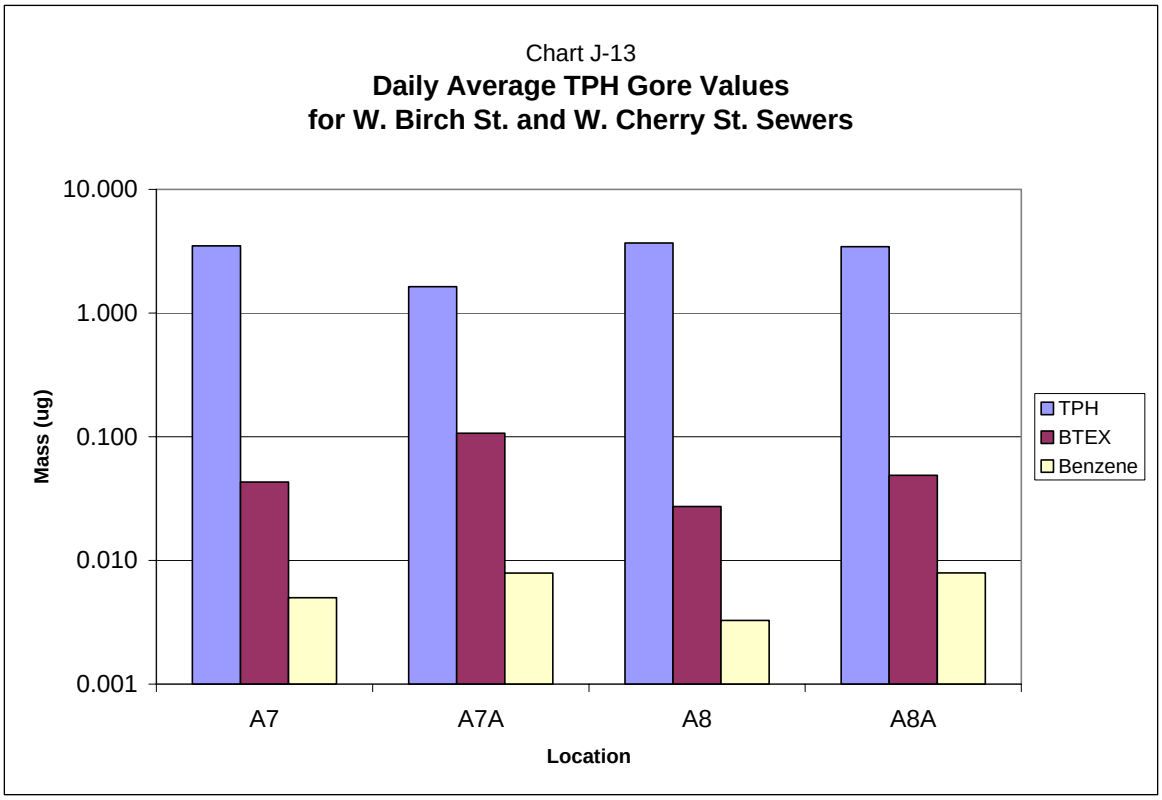


Chart J-13
Daily Average TPH Gore Values
for W. Birch St. and W. Cherry St. Sewers
10.000
1.000
0.100
0.010
0.001
Mass (ug)
A7
A7A
A8
A8A
Location
TPH
BTEX
Benzene

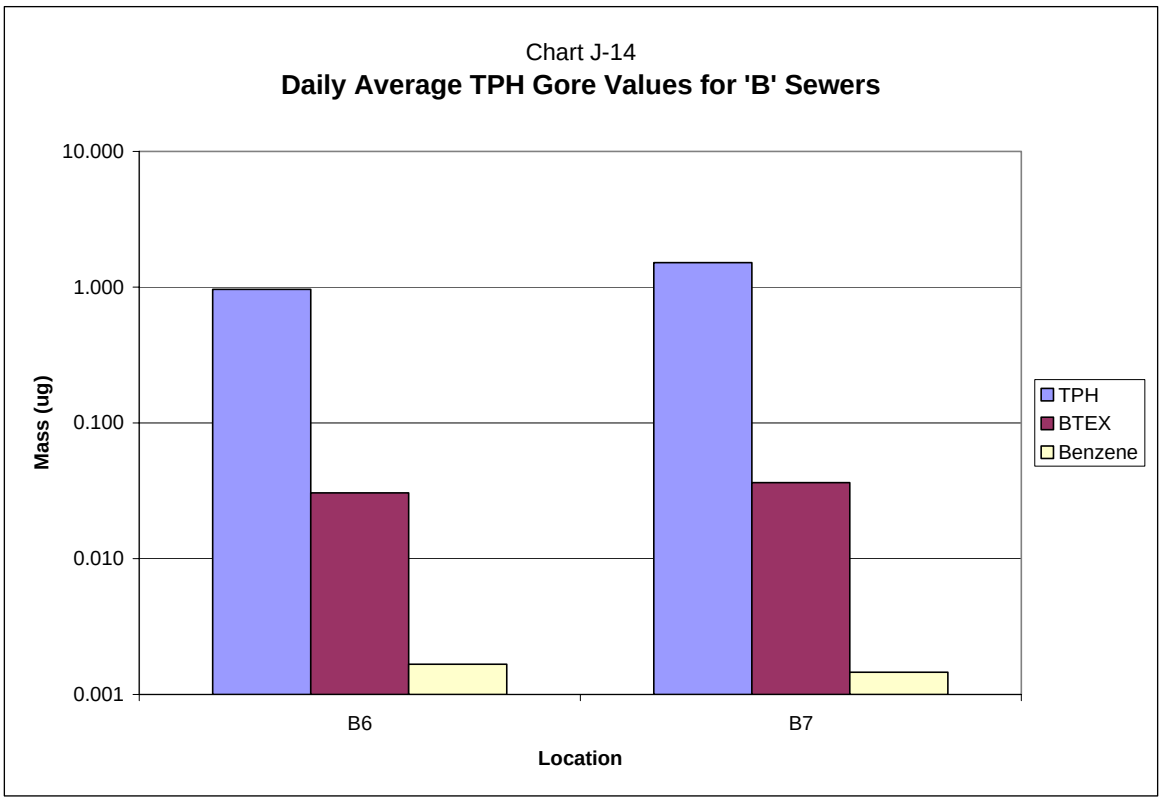


Chart J-14
Daily Average TPH Gore Values for 'B' Sewers
10.000
1.000
0.100
0.010
0.001
Mass (ug)
B6
B7
Location
TPH
BTEX
Benzene

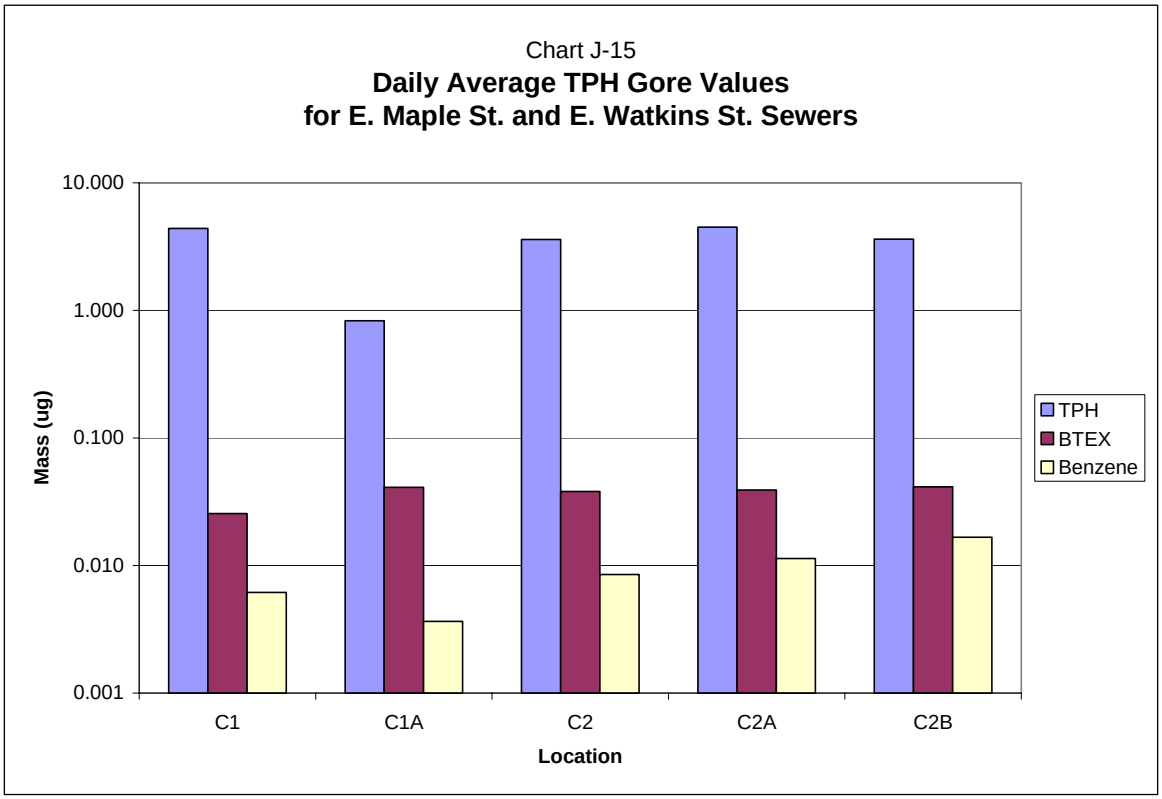


Chart J-15
Daily Average TPH Gore Values
for E. Maple St. and E. Watkins St. Sewers
10.000
1.000
0.100
0.010
0.001
Mass (ug)
C1
C1A
C2
C2A
C2B
Location
TPH
BTEX
Benzene

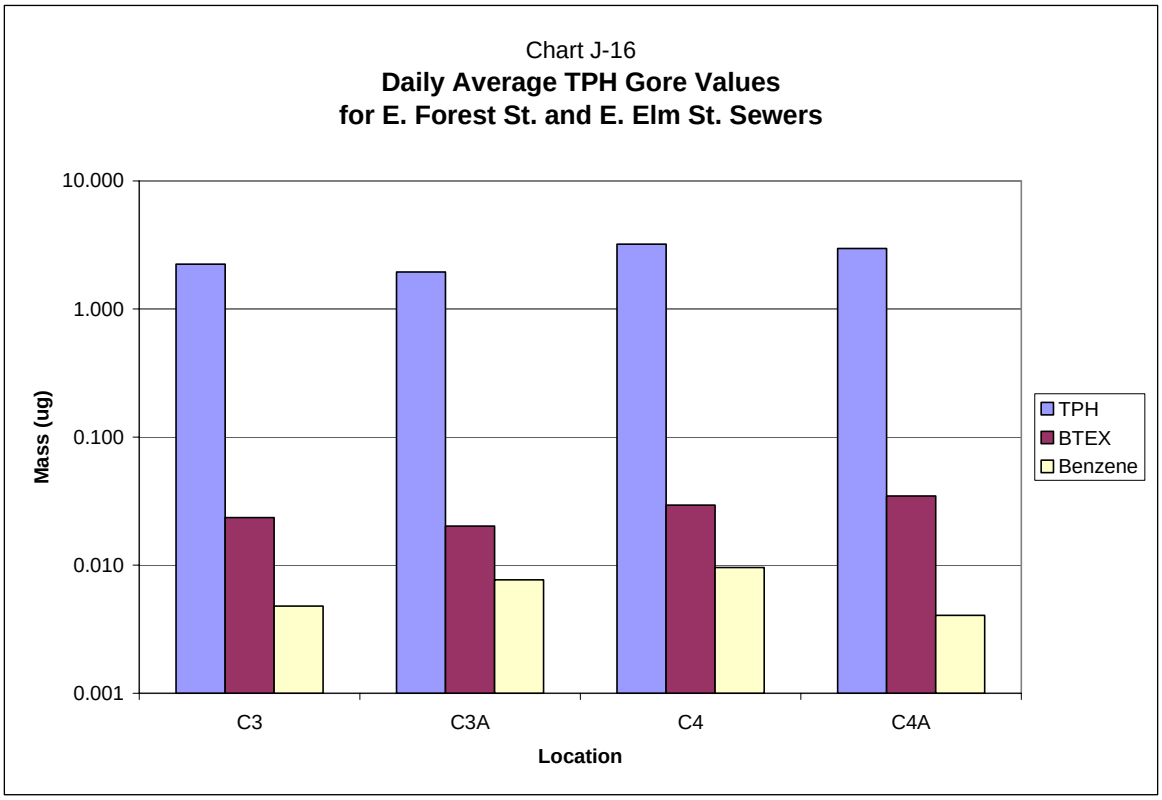


Chart J-16
Daily Average TPH Gore Values
for E. Forest St. and E. Elm St. Sewers
10.000
1.000
0.100
0.010
0.001
Mass (ug)
C3
C3A
C4
C4A
Location
TPH
BTEX
Benzene

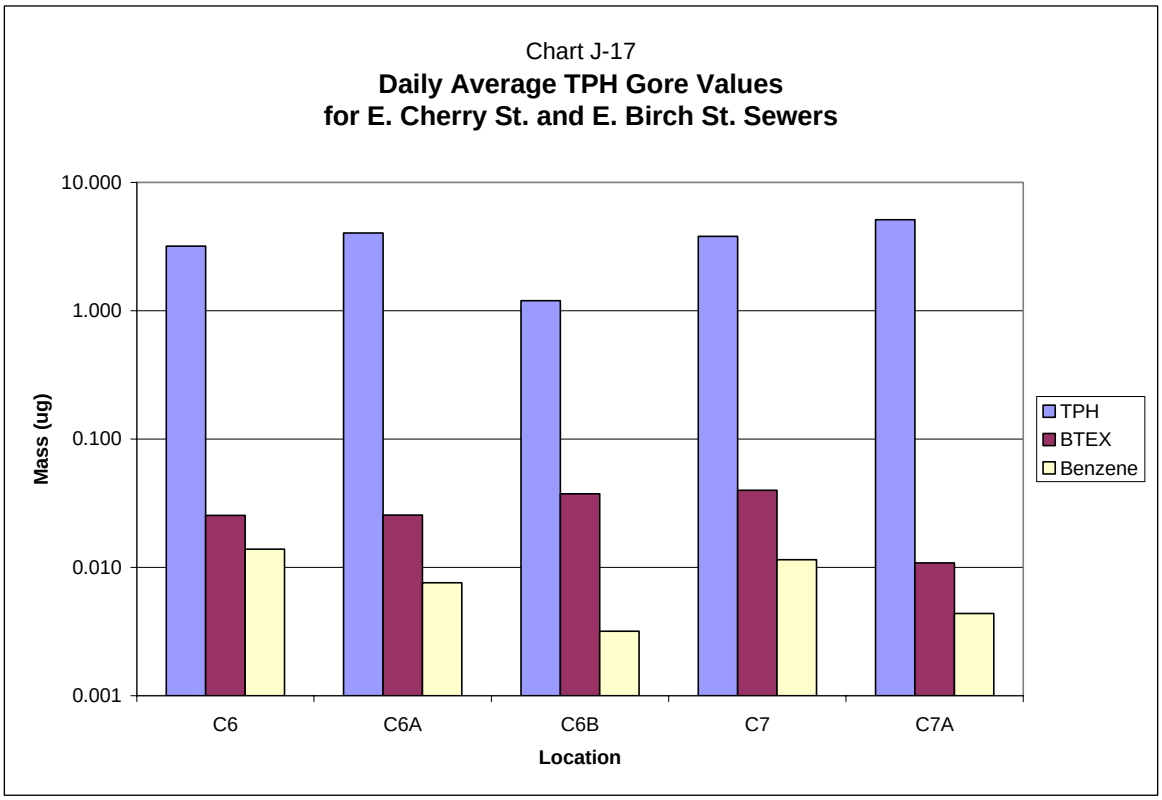


Chart J-17
Daily Average TPH Gore Values
for E. Cherry St. and E. Birch St. Sewers
10.000
1.000
0.100
0.010
0.001
Mass (ug)
C6
C6A
C6B
C7
C7A
Location
TPH
BTEX
Benzene

APPENDIX K

SOIL VAPOR DATA STATISTICS

Statistical Calculations- All Soil Vapor Data
Hartford Working Group

Summary Statistics					
Variable*	Observations	Mean	Std. Dev.	Min	Max
benzene	791	362710	1066812	1	2.00E+07
hexane	747	1795506	5203129	1.1	9.20E+07
isopentane	807	1.92E+07	5.30E+07	0.9	1.10E+09
ln benzene	791	6.284975	5.27324	0	16.81124
ln hexane	747	7.774776	6.065053	0.0953102	18.3373
ln isopentane	807	10.07984	6.489025	-0.1053605	20.81858

Shapiro-Wilk W test for normal data					
Variable*	Observations	W	V	z	Prob>z
benzene	791	0.36069	325.746	14.19	0
hexane	747	0.32042	328.726	14.178	0
isopentane	807	0.35415	335.124	14.272	0
ln benzene	791	0.88845	56.84	9.908	0
ln hexane	747	0.86406	65.757	10.241	0
ln isopentane	807	0.8761	64.292	10.219	0

Pairwise Correlations						
Variable*	benzene	hexane	isopentane	ln benzene	ln hexane	ln isopentane
benzene	1	-	-	-	-	-
hexane	0.8429	1	-	-	-	-
isopentane	0.8701	0.8674	1	-	-	-
ln benzene	0.5355	0.4872	0.4845	1	-	-
ln hexane	0.475	0.4648	0.4555	0.9545	1	-
ln isopentane	0.433	0.446	0.4584	0.923	0.9768	1

*concentrations in µg/m3

Statistical Calculations- Soil Vapor Data, August-September 2004
Hartford Working Group

Summary Statistics - Event 1					
Variable*	Observations	Mean	Std. Dev.	Min	Max
benzene	205	290938	907351.8	1.25	6200000
hexane	187	1525147	3230536	1.35	1.30E+07
isopentane	210	1.66E+07	3.87E+07	4.55	3.20E+08
ln benzene	205	6.431142	4.524573	0.223144	15.64006
ln hexane	187	7.881935	5.244958	0.300105	16.38046
ln isopentane	210	10.21307	5.594643	1.515127	19.58383

Shapiro-Wilk W test for normal data - Event 1					
Variable*	Observations	W	V	z	Prob>z
benzene	205	0.36702	96.485	10.527	0
hexane	187	0.53756	65.075	9.575	0
isopentane	210	0.49506	78.602	10.067	0
ln benzene	205	0.93393	10.071	5.321	0
ln hexane	187	0.91197	12.387	5.771	0
ln isopentane	210	0.91671	12.966	5.91	0

Pairwise Correlations - Event 1						
Variable*	benzene	hexane	isopentane	ln benzene	ln hexane	ln isopentane
benzene	1	-	-	-	-	-
hexane	0.8024	1	-	-	-	-
isopentane	0.6553	0.9068	1	-	-	-
lnbenz	0.5861	0.7329	0.5873	1	-	-
lnhex	0.5094	0.7171	0.6301	0.9385	1	-
lnisop	0.4693	0.732	0.6137	0.9118	0.974	1

*concentrations in µg/m3

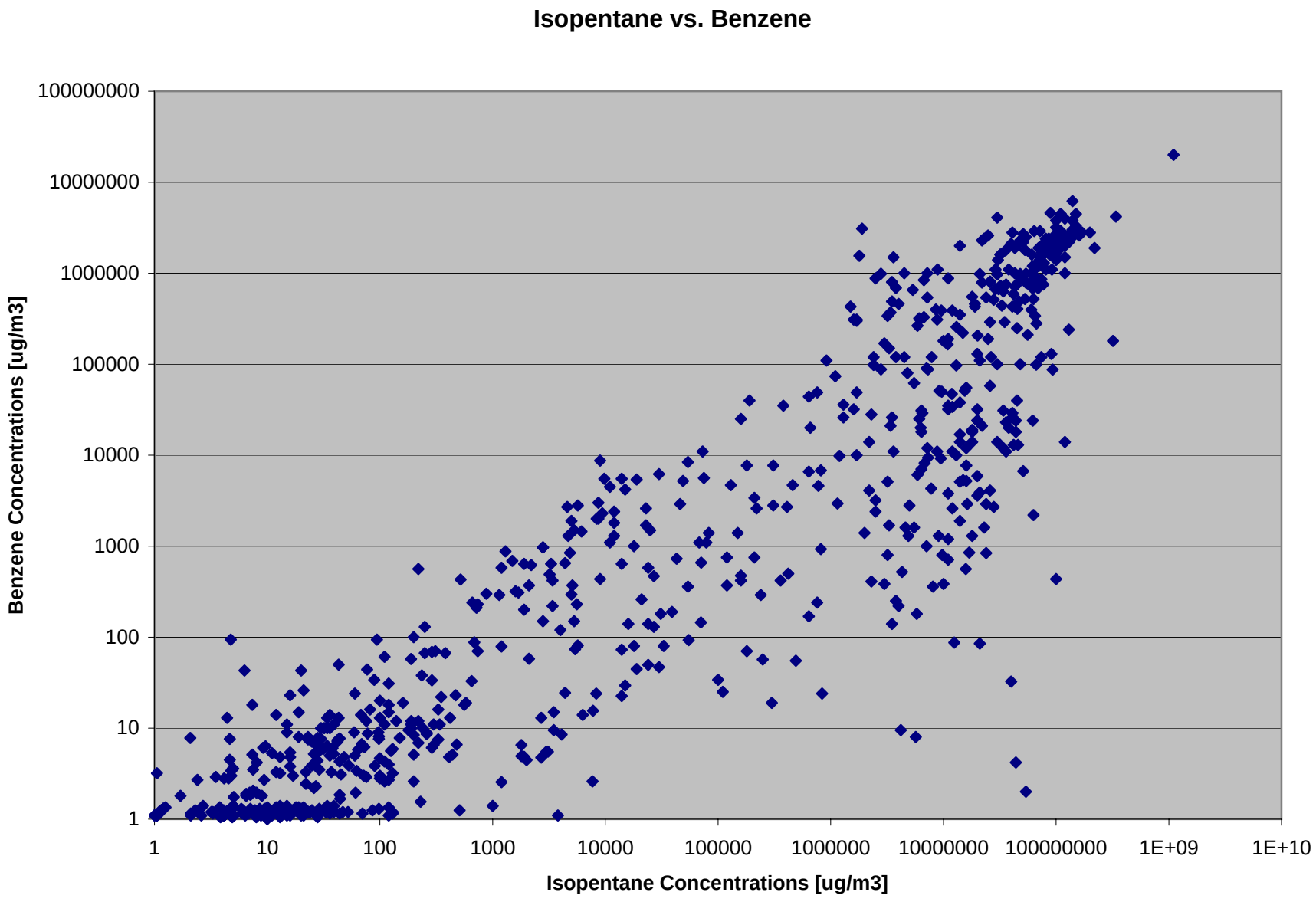
Statistical Calculations- Soil Vapor Data, January-March 2005
Hartford Working Group

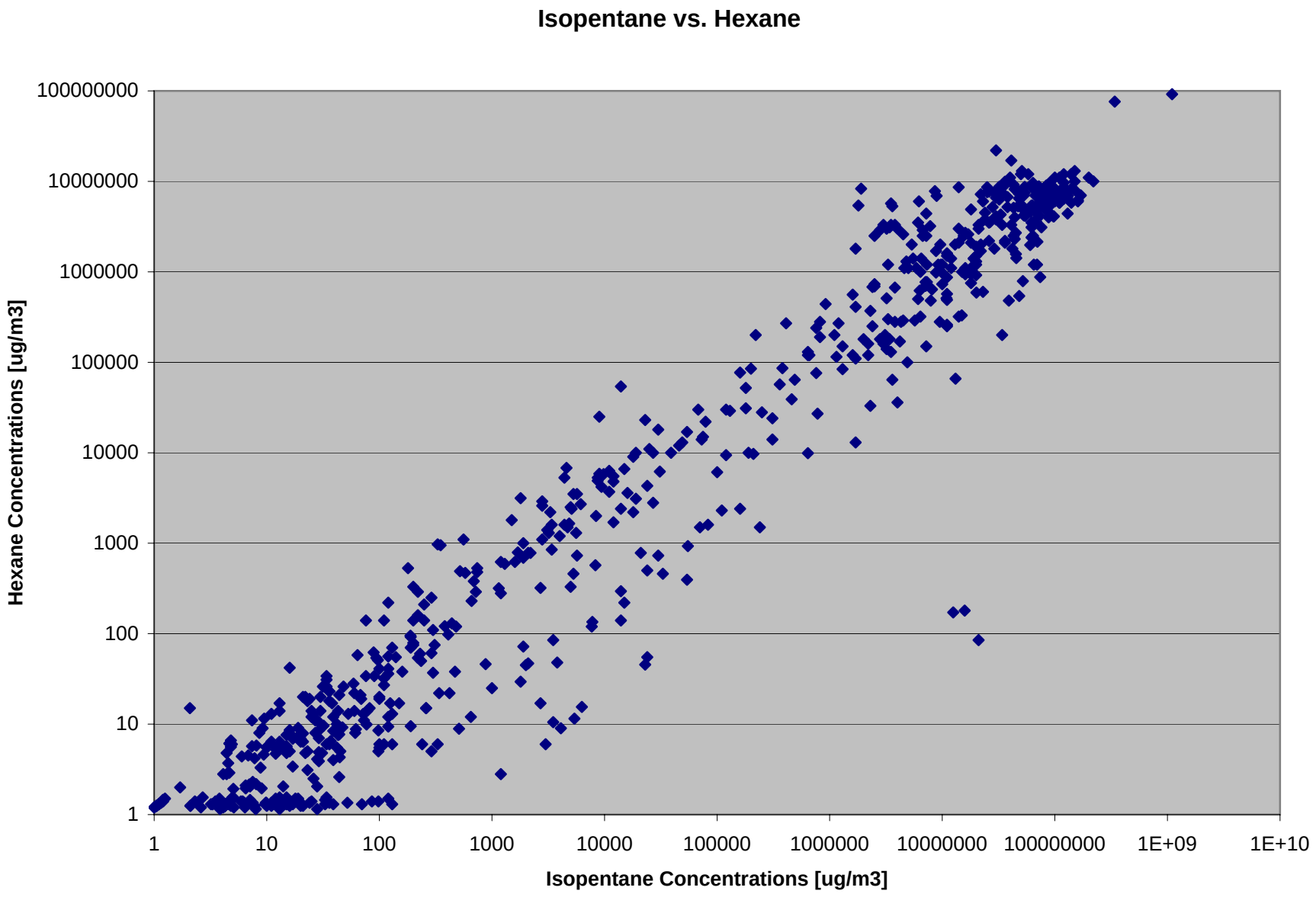
Summary Statistics - Event 2					
Variable*	Observations	Mean	Std. Dev.	Min	Max
benzene	550	400917.9	1145292	1	2.00E+07
hexane	531	1909074	5836792	1.1	9.20E+07
isopentane	560	2.05E+07	5.86E+07	0.9	1.10E+09
ln benzene	550	6.266313	5.527424	0	16.81124
ln hexane	531	7.715436	6.336945	0.09531	18.3373
ln isopentane	560	9.953447	6.822819	-0.105361	20.81858

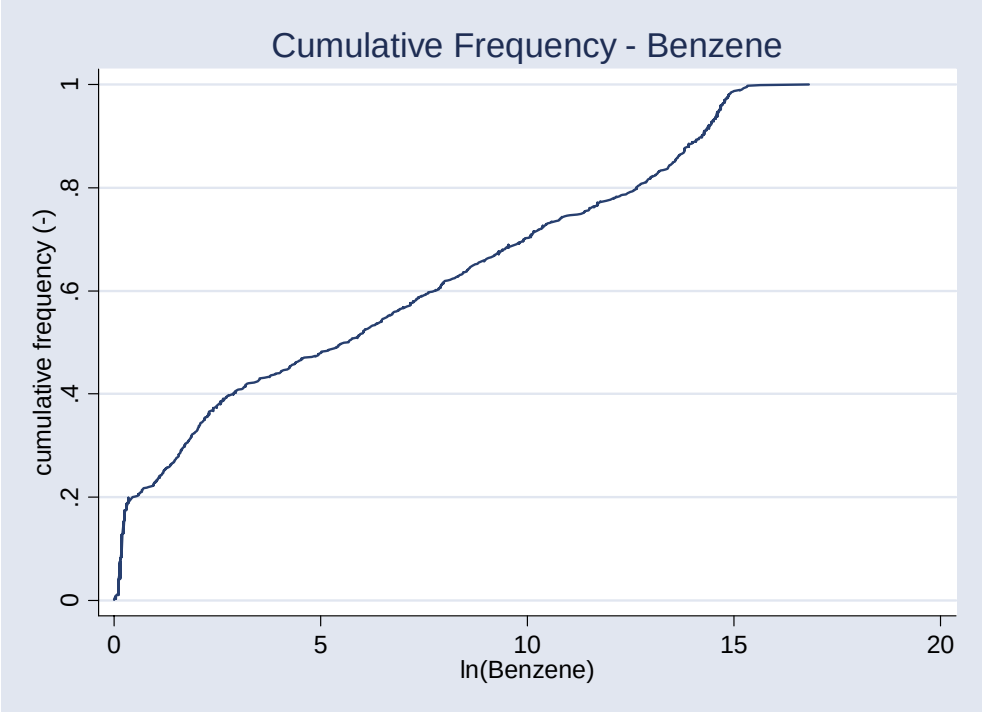
Shapiro-Wilk W test for normal data - Event 2					
Variable*	Observations	W	V	z	Prob>z
benzene	550	0.35516	236.39	13.194	0
hexane	531	0.29186	251.489	13.323	0
isopentane	560	0.3278	250.464	13.345	0
ln benzene	550	0.86349	50.044	9.446	0
ln hexane	531	0.83601	58.241	9.797	0
ln isopentane	560	0.84722	56.926	9.765	0

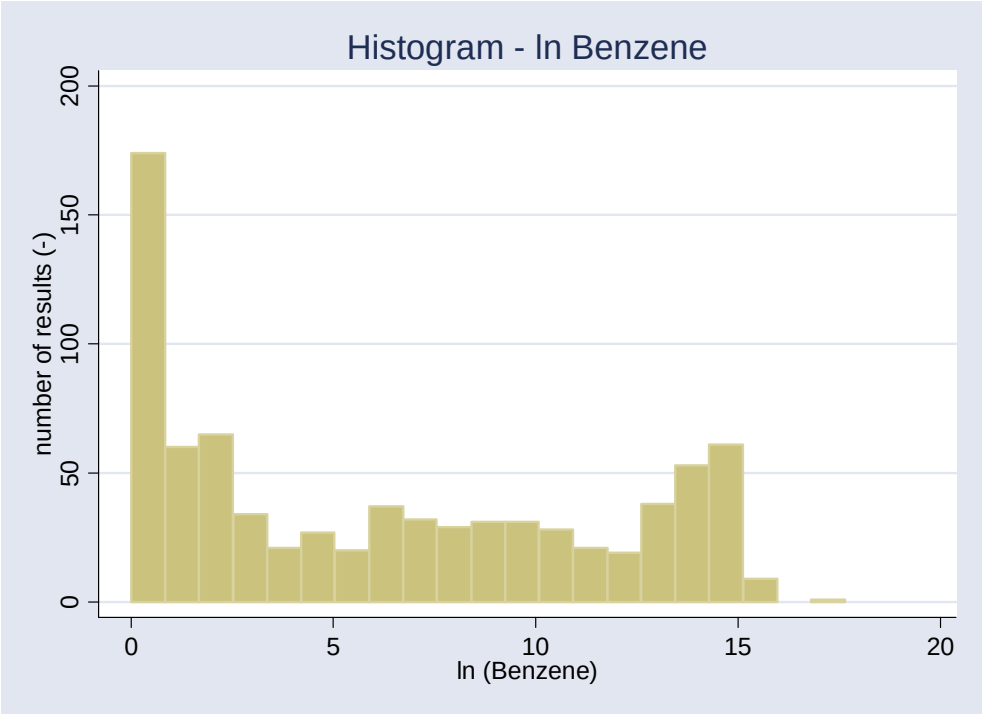
Pairwise Correlations - Event 2						
Variable*	benzene	hexane	isopentane	ln benzene	ln hexane	ln isopentane
benzene	1	-	-	-	-	-
hexane	0.8584	1	-	-	-	-
isopentane	0.9178	0.8627	1	-	-	-
lnbenz	0.5276	0.4536	0.4713	1	-	-
lnhex	0.4709	0.428	0.4338	0.9633	1	-
lnisop	0.4324	0.403	0.4282	0.9391	0.9778	1

*concentrations in µg/m3


Isopentane vs. Benzene
Benzene Concentrations [ug/m3]
100000000
10000000
1000000
100000
10000
1000
100
10
1
1
10
100
1000
10000
100000
1000000
10000000
100000000
1E+09
1E+10
Isopentane Concentrations [ug/m3]


Isopentane vs. Hexane
Hexane Concentrations [ug/m3]
100000000
10000000
1000000
100000
10000
1000
100
10
1
1
10
100
1000
10000
100000
1000000
10000000
100000000
1E+09
1E+10
Isopentane Concentrations [ug/m3]

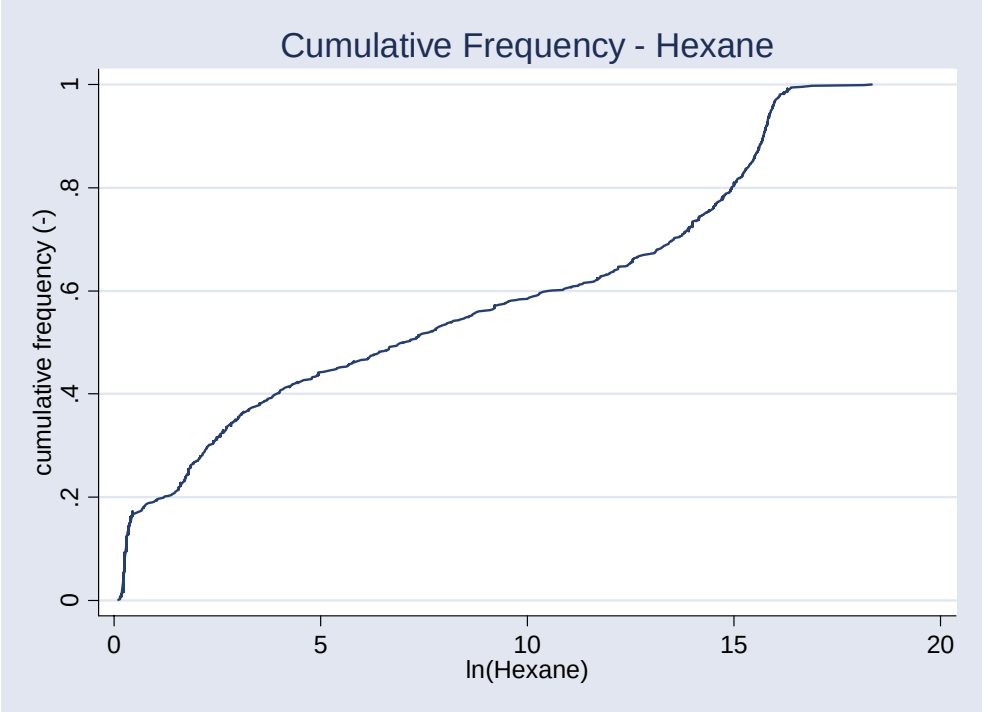


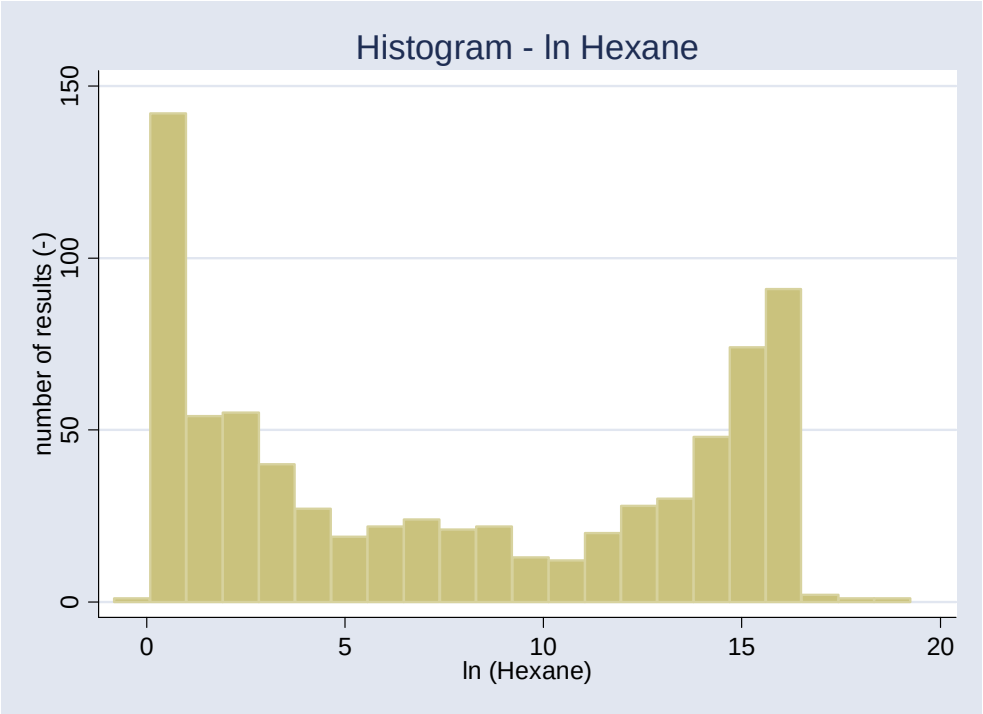


Distribution Plots

All Soil Vapor Data – *Benzene*

Hartford Working Group

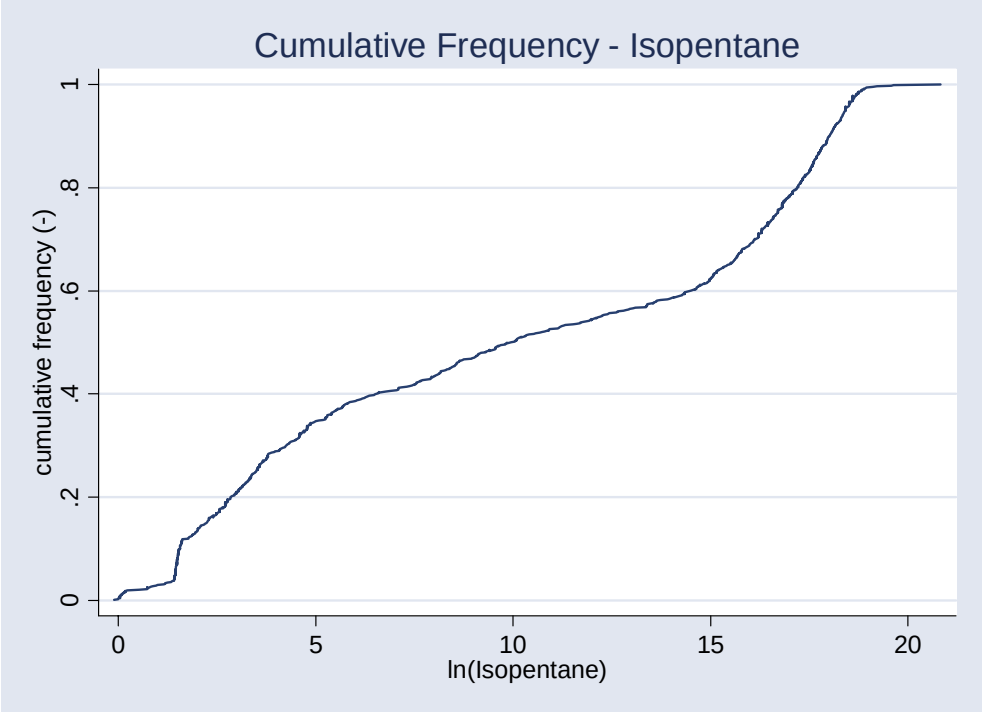


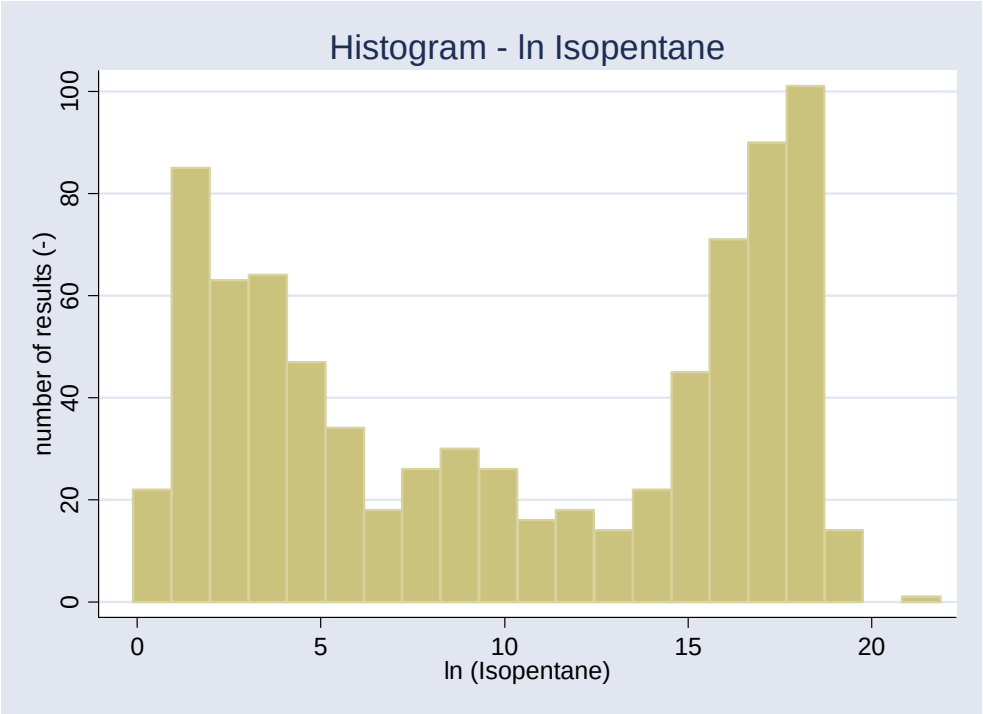


Distribution Plots

All Soil Vapor Data – *Hexane*

Hartford Working Group



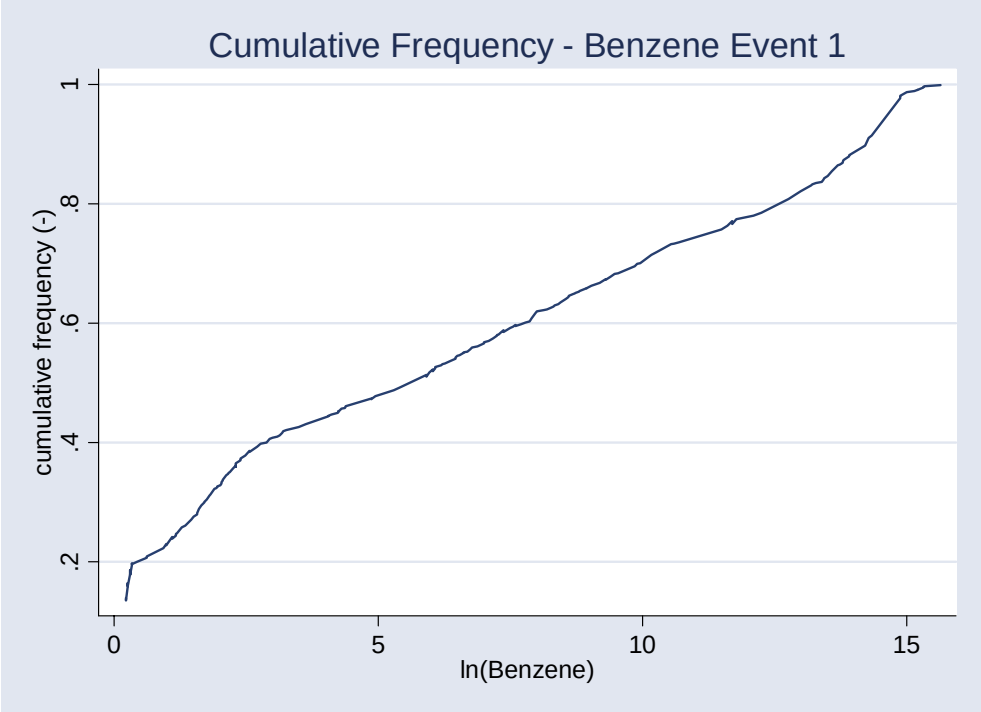


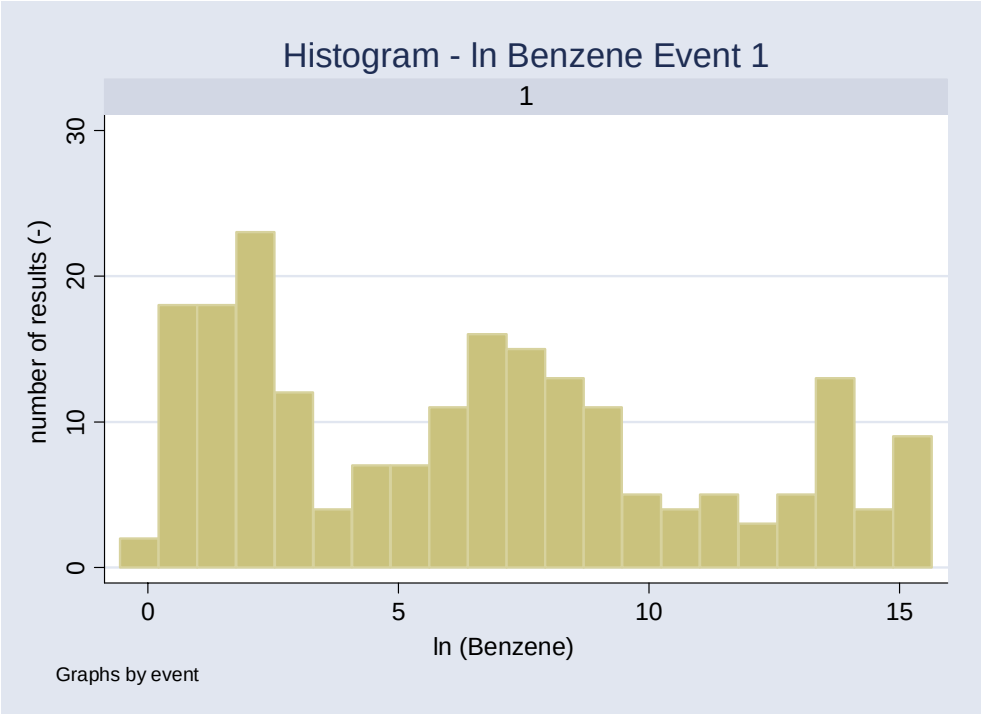
Distribution Plots

All Soil Vapor Data –

Isopentane

Hartford Working Group



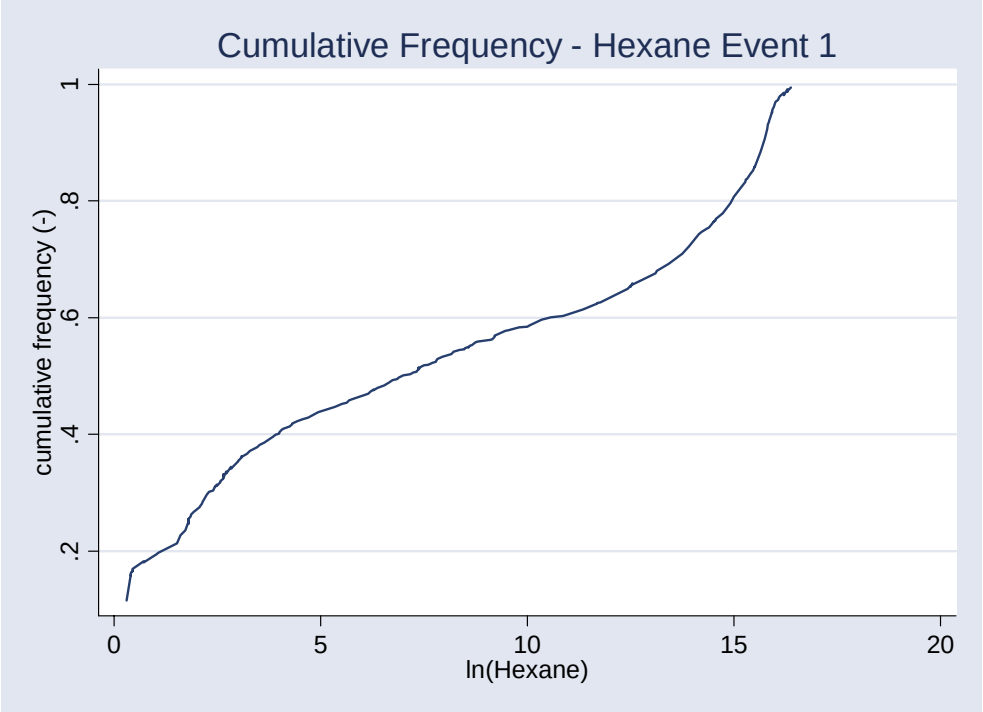


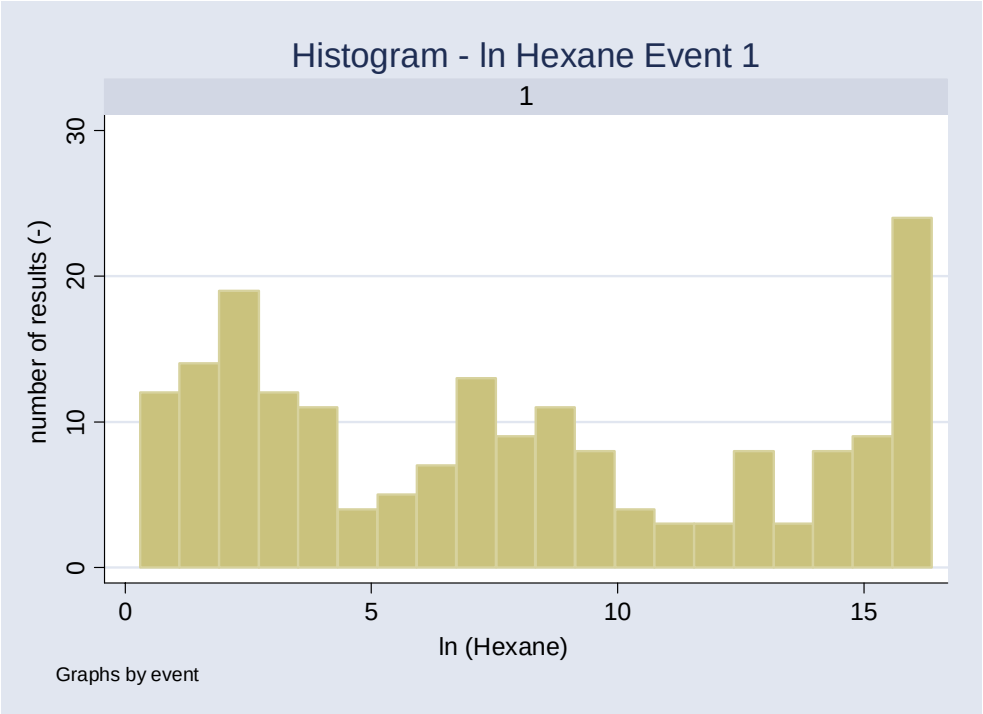
Distribution Plots

August to September, 2004

Soil Vapor Data– *Benzene*

Hartford Working Group



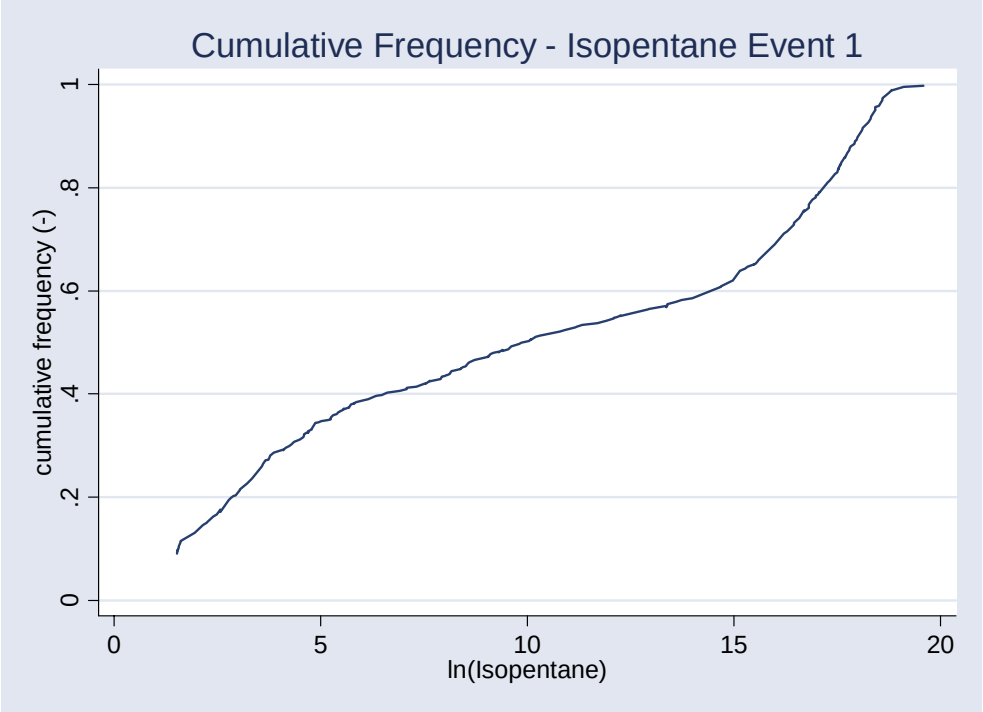


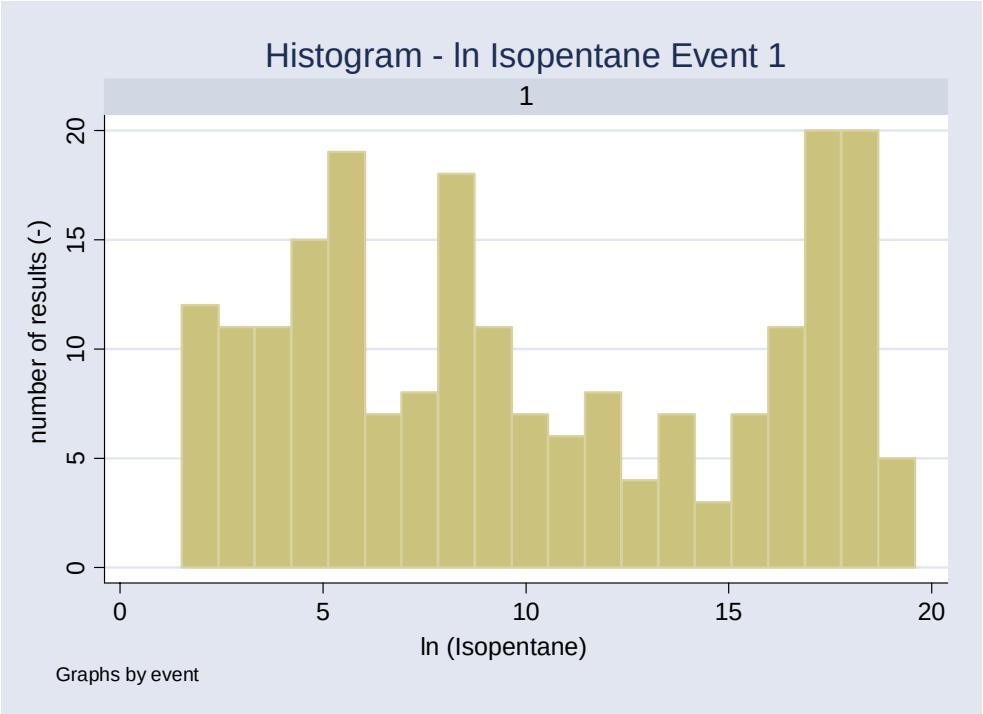
Distribution Plots

August to September, 2004

Soil Vapor Data– *Hexane*

Hartford Working Group



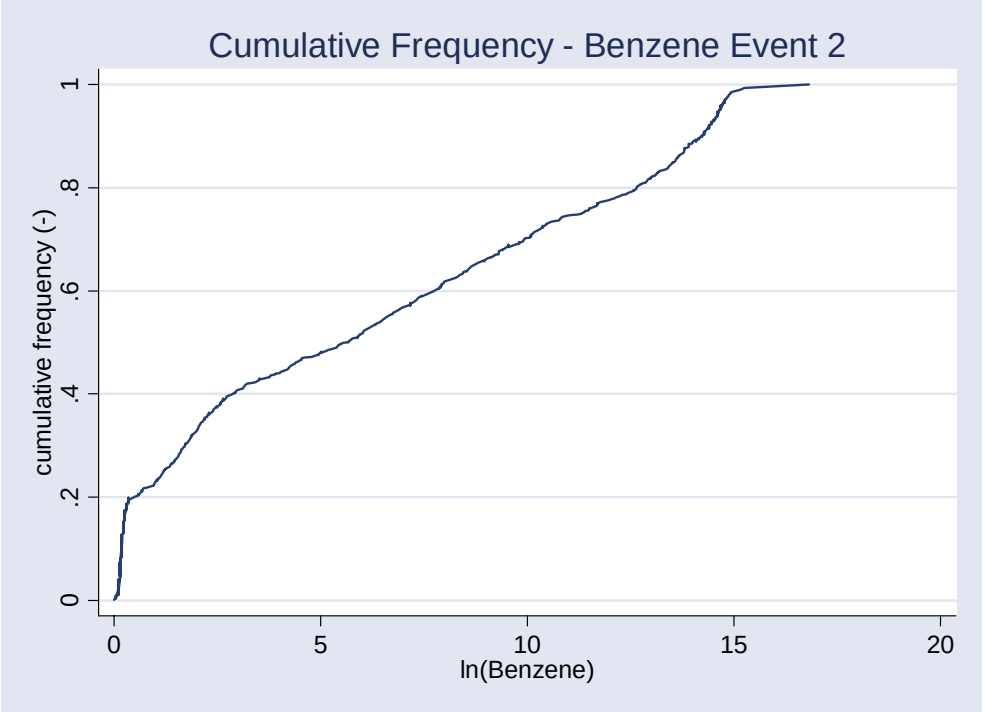


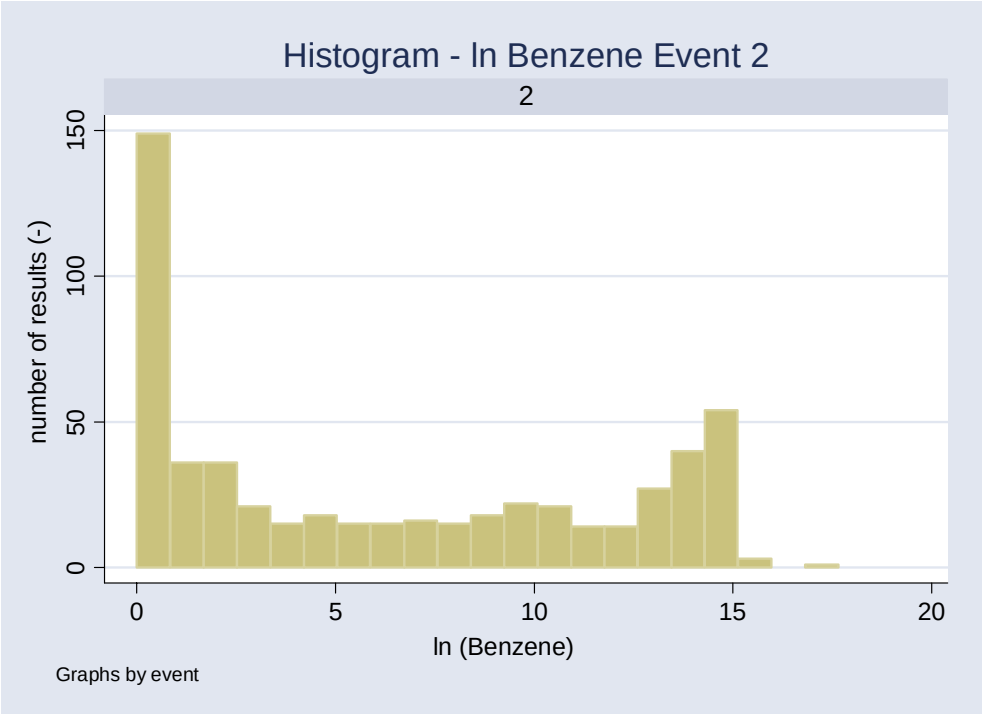
Distribution Plots

August to September, 2004

Soil Vapor Data – *Isopentane*

Hartford Working Group



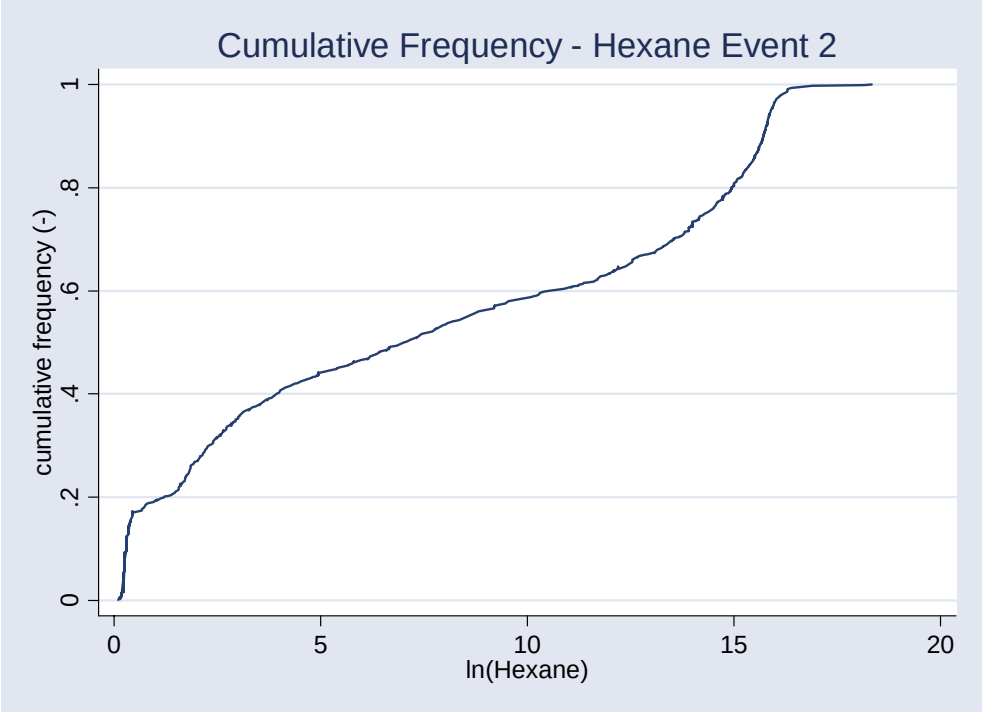


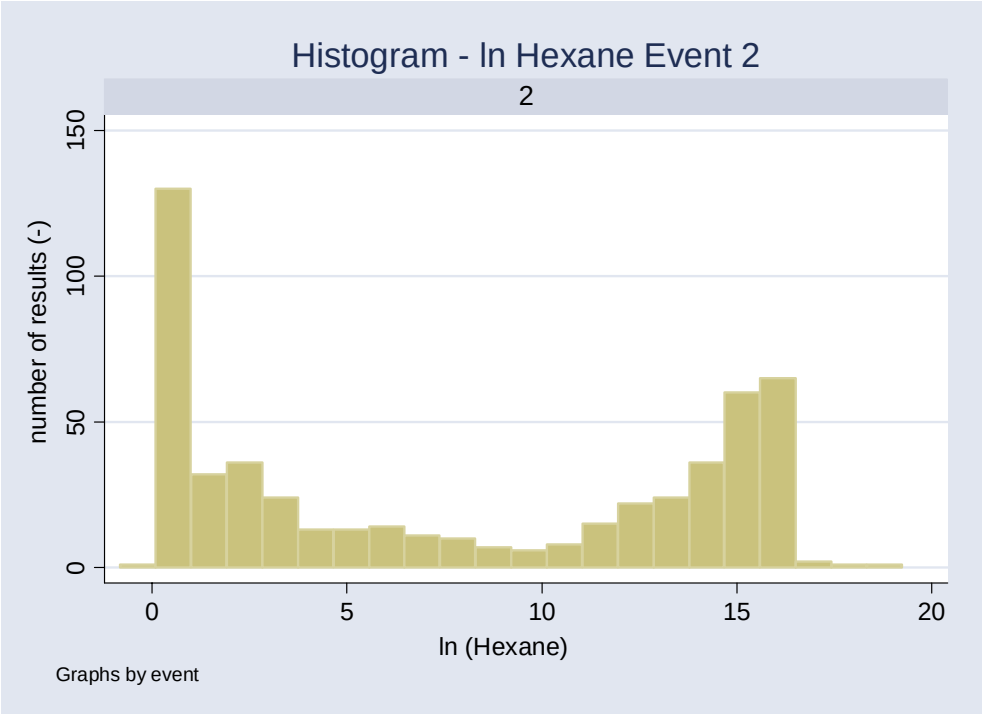
Distribution Plots

January to March 2005

Soil Vapor Data – *Benzene*

Hartford Working Group



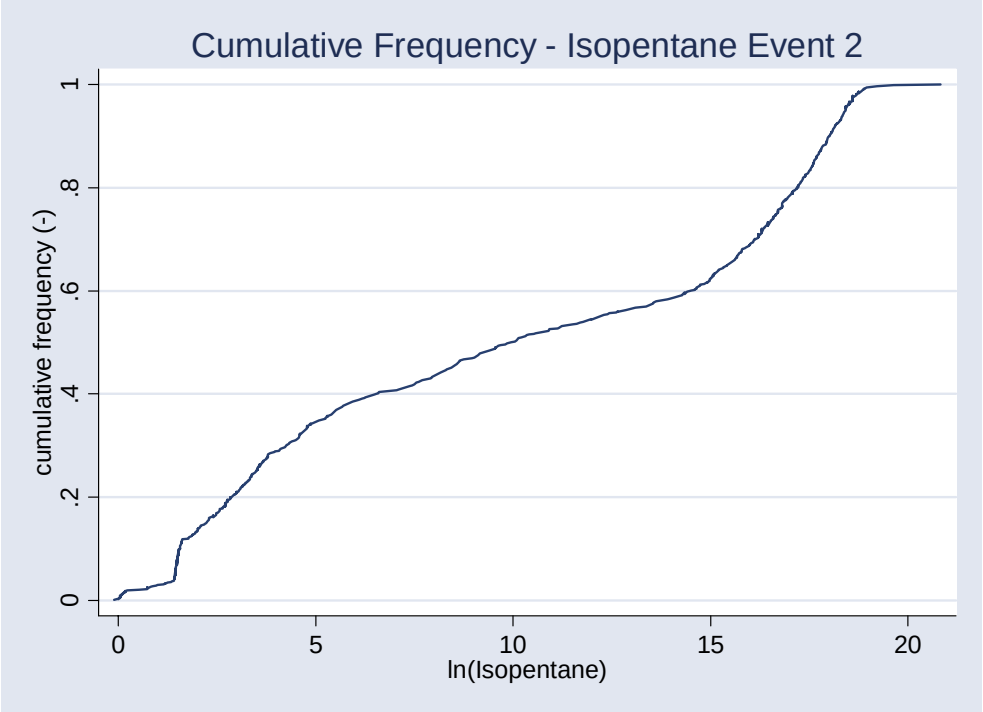


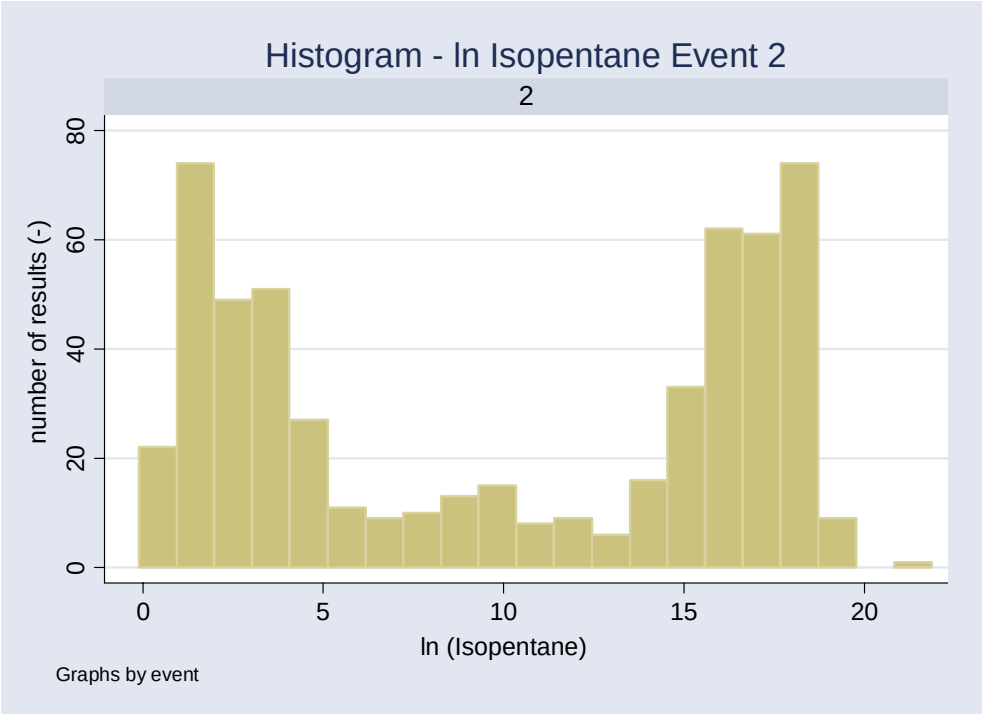
Distribution Plots

January to March 2005

Soil Vapor Data – *Hexane*

Hartford Working Group





Distribution Plots

January to March 2005

Soil Vapor Data – *Isopentane*

Hartford Working Group

LOG OF STATA COMMANDS AND RESULTS

```
. generate lnbenz=ln( benzene)
(28 missing values generated)

. generate lnhex=ln( hexane)
(72 missing values generated)

. generate lnisop=ln( isopentane)
(12 missing values generated)

. summarize benzene hexane isopentane lnbenz lnhex lnisop

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
     benzene |       791      362710     1066812          1   2.00e+07
      hexane |       747     1795506     5203129        1.1   9.20e+07
  isopentane |       807    1.92e+07    5.30e+07         .9   1.10e+09
      lnbenz |       791    6.284975     5.27324          0   16.81124
       lnhex |       747    7.774776    6.065053   .0953102    18.3373
-------------+--------------------------------------------------------
      lnisop |       807    10.07984    6.489025  -.1053605   20.81858

. bysort event: summarize benzene hexane isopentane lnbenz lnhex lnisop

-------------------------------------------------------------------------------
-> event = 1

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
     benzene |       205      290938    907351.8       1.25    6200000
      hexane |       187     1525147     3230536       1.35   1.30e+07
  isopentane |       210    1.66e+07    3.87e+07       4.55   3.20e+08
      lnbenz |       205    6.431142    4.524573   .2231435   15.64006
       lnhex |       187    7.881935    5.244958   .3001046   16.38046
-------------+--------------------------------------------------------
      lnisop |       210    10.21307    5.594643   1.515127   19.58383

-------------------------------------------------------------------------------
-> event = 2

    Variable |       Obs        Mean    Std. Dev.       Min        Max
-------------+--------------------------------------------------------
     benzene |       550    400917.9     1145292          1   2.00e+07
      hexane |       531     1909074     5836792        1.1   9.20e+07
  isopentane |       560    2.05e+07    5.86e+07         .9   1.10e+09
      lnbenz |       550    6.266313    5.527424          0   16.81124
       lnhex |       531    7.715436    6.336945   .0953102    18.3373
-------------+--------------------------------------------------------
      lnisop |       560    9.953447    6.822819  -.1053605   20.81858


. swilk benzene hexane isopentane lnbenz lnhex lnisop

                   Shapiro-Wilk W test for normal data
    Variable |    Obs        W          V          z     Prob>z
-------------+-------------------------------------------------
     benzene |    791    0.36069    325.746     14.190  0.00000
      hexane |    747    0.32042    328.726     14.178  0.00000
  isopentane |    807    0.35415    335.124     14.272  0.00000
      lnbenz |    791    0.88845     56.840      9.908  0.00000
       lnhex |    747    0.86406     65.757     10.241  0.00000
      lnisop |    807    0.87610     64.292     10.219  0.00000
```

```
. bysort event: swilk benzene hexane isopentane lnbenz lnhex lnisop

-------------------------------------------------------------------------------
-> event = 1

                   Shapiro-Wilk W test for normal data
    Variable |    Obs        W          V          z     Prob>z
-------------+-------------------------------------------------
     benzene |    205    0.36702     96.485     10.527  0.00000
      hexane |    187    0.53756     65.075      9.575  0.00000
  isopentane |    210    0.49506     78.602     10.067  0.00000
      lnbenz |    205    0.93393     10.071      5.321  0.00000
       lnhex |    187    0.91197     12.387      5.771  0.00000
      lnisop |    210    0.91671     12.966      5.910  0.00000

-------------------------------------------------------------------------------
-> event = 2

                   Shapiro-Wilk W test for normal data
    Variable |    Obs        W          V          z     Prob>z
-------------+-------------------------------------------------
     benzene |    550    0.35516    236.390     13.194  0.00000
      hexane |    531    0.29186    251.489     13.323  0.00000
  isopentane |    560    0.32780    250.464     13.345  0.00000
      lnbenz |    550    0.86349     50.044      9.446  0.00000
       lnhex |    531    0.83601     58.241      9.797  0.00000
      lnisop |    560    0.84722     56.926      9.765  0.00000

-------------------------------------------------------------------------------


. pwcorr benzene hexane isopentane lnbenz lnhex lnisop

             |  benzene   hexane isopen~e   lnbenz    lnhex   lnisop
-------------+------------------------------------------------------
     benzene |   1.0000
      hexane |   0.8429   1.0000
  isopentane |   0.8701   0.8674   1.0000
      lnbenz |   0.5355   0.4872   0.4845   1.0000
       lnhex |   0.4750   0.4648   0.4555   0.9545   1.0000
      lnisop |   0.4330   0.4460   0.4584   0.9230   0.9768   1.0000


.
. cumul lnbenz, generate(cum_lnbenz)

. cumul  lnhex, generate(cum_lnhex)

. cumul   lnisop, generate(cum_lnisop)

.
. describe

Contains data from J:\Water\ProjectFiles\P10\1005 - BP\Hartford\stats\bulk-stat
> s\april\ready\hartford5_042805_events_plus.dta
  obs:           819
 vars:            17                          28 Apr 2005 11:29
 size:       104,832 (90.0% of memory free)
-------------------------------------------------------------------------------
              storage  display     value
variable name   type   format      label      variable label
```

```
-------------------------------------------------------------------------------
sampleidforav~p str29  %29s                    SampleIDforAvgDup
sample_date     str10  %10s
sample_class    str14  %14s
sys_loc_code    str14  %14s
sys_well_code   str8   %9s
geologic_unit~e str7   %9s
event           byte   %8.0g
result_unit     str5   %9s
benzene         float  %9.0g                   BENZENE
hexane          float  %9.0g                   HEXANE
isopentane      float  %9.0g                   ISOPENTANE
lnbenz          float  %9.0g
lnhex           float  %9.0g
lnisop          float  %9.0g
cum_lnbenz      float  %9.0g
cum_lnhex       float  %9.0g
cum_lnisop      float  %9.0g
-------------------------------------------------------------------------------
Sorted by:  event
```