Hartford Working Group
Hartford, Illinois

Design Plan for Vapor Intrusion Mitigation at the Hartford Community Center

ENSR Corporation
September 2004
Document Number 01005-093-400

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September 23, 2004

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Chicago, IL 60604

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Marion, IL 62959

RE: Design Plan for Vapor Intrusion Mitigation at the Hartford Community Center
Hartford Area Hydrocarbon Plume Site, Hartford, Illinois
ENSR Project Number 01005-093-400

Dear Sirs:

Enclosed is the Design Plan for Vapor Intrusion Mitigation at the Hartford Community Center. ENSR Corporation prepared this plan on behalf of the Hartford Working Group (HWG).

Please give us a call at (630) 836-1700 if you have any questions or comments.

Sincerely,

Ralph Feeney
Senior Program Manager

David A. Schumacher
Program Manager

enclosure: *Design Plan for Vapor Intrusion Mitigation at the Hartford Community Center, September 2004, ENSR Project No. 01005-093-400*

cc: T. Binz – Tetra Tech, Inc.
J. Moore/IEPA
C. Cahnovsky/IEPA

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1.0 INTRODUCTION

ENSR Corporation (ENSR), on behalf of the Hartford Working Group (HWG), has prepared this plan to mitigate vapor intrusion issues related to the Hartford Community Center (HCC), located at 715 North Delmar Avenue in Hartford, Illinois. This plan is being submitted to the United States Environmental Protection Agency (USEPA) in accordance with the July 21, 2004 letter prepared by Clayton Group Services (Clayton), on behalf of the HWG, and in accordance with the HWG's August 20, 2004 e-mail communication with the USEPA requesting time to review additional data prior to submitting this plan.

Figure 1-1 presents the layout of the HCC and shows surrounding utilities and subsurface investigation locations. Section 2.0 of this plan presents and summarizes information that has been gathered to date for the HCC. An approach for designing a mitigation system for the HCC is presented in Section 3.0.

2.0 INVESTIGATION RESULTS

The following sections present the results of investigation and sampling activities conducted at the HCC. Table 2-1 summarizes the notes, data qualifiers and analytical methods for the analytical data summary tables that are included in this report.

2.1 Historical Reports

Portions of several historical reports from 1978 documenting the presence of gas vapors at the HCC are included in Appendix A. According to the July 17, 1978 report prepared by John Mathes & Associates (Mathes Report), the earliest records of odor complaints at the HCC were in May 1966. The Mathes Report also summarizes the results of vapor analyses conducted by various parties between 1966 and 1978. The July 12, 1978 letter from the Illinois State Geological Survey (ISGS) reported that soil vapor samples collected from the HCC contained over 40% methane, small amounts of propane, butane and pentane, and no significant amount of ethane.

2.2 Building Construction Details

The HCC building was constructed in 1951 as an addition to a school building formerly located in the parking lot area south of the current building. The former school building (Woodrow Wilson School) was originally constructed in the 1920s and was demolished in 1972. Therefore, the HCC and the former school building were connected from 1951 to 1972. The footprint of the former school building is shown on Figure 1-1. Historical photographs showing the original school building were obtained from the Village of Hartford Public Library and are included in Appendix B.

Figure 2-1 shows the layout of the basement of the HCC and Figures 2-2 and 2-3 show building profiles. As shown on Figure 2-2, the basement of the HCC is at three different elevations, with the boiler room area being the lowest elevation, at a floor depth of approximately 9 feet below grade. The cafeteria, kitchen and locker room areas have a floor depth of approximately 5.5 feet. The hallway east of the boiler room and the police storage room have a floor depth of approximately 3 feet.

In order to determine the type of soil that is present beneath the basement floor, two 4-inch diameter core holes were drilled through the concrete floor in the men's locker room and the boiler room. These floor corings indicated silty-clay soil was present immediately beneath the floor at both locations.

2.3 Geology

Soil borings have been conducted at various locations around the HCC in order to install vapor monitoring points and monitoring wells. In addition, Clayton Group Services completed cone

penetrometer (CPT)/ROST™ borings around the HCC (Clayton, April 2004). Boring locations are shown on Figure 1-1.

The CPT/ROST™ investigation results relevant to the HCC are included in Appendix C. Boring logs for vapor monitoring points (ENSR) and monitoring wells (Clayton) are included in Appendix D. Based on these boring logs, ENSR has prepared geologic cross-sections for the HCC. Figure 2-4 shows the locations of the cross-sections and Figures 2-5a, 2-5b and 2-5c present the cross-sections.

As shown on the geologic cross-sections, approximately 30 feet of fine-grained soils overlie the Main Sand beneath the HCC. Stratigraphic units present above the Main Sand include the North Olive Stratum (continuous) and the Rand Stratum (discontinuous) and EPA Stratum (discontinuous). The North Olive Stratum is located at a depth between approximately 10 to 15 feet below ground surface beneath the HCC and generally consists of silty-clayey sand to clayey-sandy silt. The overlying and underlying soils are generally silty clay.

2.4 Sewer Assessment Results

Manholes connected to the sanitary sewer system around the HCC have been monitored on a daily basis since March 2004 using a PID/FID meter (TVA 1000) and a lower explosive limit (LEL) meter. Table 2-2 summarizes PID/FID and LEL readings.

Sewer vapor samples have been collected from the sanitary sewer system around the HCC on the following dates: March 17, 2004; March 31, 2004; and July 30, 2004. The results of these analyses are summarized in Table 2-3 and copies of the analytical reports are contained in Appendix E.

Gore Sorbers™ were installed in the several of the sewer manholes around the HCC on July 28, 2004 and removed on August 19, 2004. The results of these analyses are summarized in Table 2-4 and copies of the laboratory reports are contained in Appendix F.

Sewer vapor sample analyses and the Gore Sorber™ analyses indicate the presence of petroleum hydrocarbon constituents (PHCs) in the sanitary sewer around the HCC. The PHCs detected are similar to those detected in soil vapor samples collected from around the HCC. Further analysis of this data will be discussed in the Vapor Migration Pathway Assessment (VMPA) report that will be submitted to the USEPA by the end of October 2004.

2.5 Indoor Air Sampling Results

Indoor air samples have been collected from inside the HCC on the following dates: April 6, 2004; June 11, 2004; June 16 and 17, 2004; July 30, 2004; August 18, 2004; August 25, 2004; August 27, 2004; and September 8, 2004. The results of these analyses are summarized in Table 2-5. Table 2-6a summarizes the indoor air analytical results for selected compounds by sampling event and Table 2-6b

summarizes the results by room. Ambient outdoor air samples were also collected at the time of the indoor air sampling and the results are summarized in Table 2-7. Indoor air and outdoor air laboratory reports are contained in Appendix E.

Analytical results indicate the presence of PHCs above outdoor air concentrations. In particular, benzene concentrations have ranged from not detected (less than 1 part per billion by volume [ppbv]) to 68 ppbv and isopentane concentrations have ranged from 72.4 to 34,000 ppbv.

Figure 2-6 compares benzene concentrations over time for different rooms in the HCC. Figure 2-6 also shows the dates in which mitigation efforts have been completed at the HCC. These efforts have included sealing cracks in the floors and walls of the HCC basement; installing check valves in the floor drains; and reversing the vent fan in the Police evidence room to blow air into the building rather than pull it out. Weekly indoor air sampling is being conducted in the HCC to further assess the effectiveness of the mitigation efforts conducted to date.

Figure 2-6 also illustrates that benzene concentrations have been relatively lower in the boiler room compared to the other rooms in the HCC. This is likely because of the louver that is open to outside air above the doorway on the west side of the boiler room. This louver appears to allow fresh air to enter the boiler room, thereby lowering the observed concentrations.

2.6 Soil Vapor Sampling Results

Figure 1-1 shows the locations of soil vapor monitoring points installed around the HCC. Figure 2-7 shows the locations of soil vapor monitoring points installed immediately around the outside perimeter of the HCC building and sub-slab monitoring points installed in the basement floor of the HCC.

Soil vapor samples from soil vapor monitoring points installed around the HCC have been collected on the following dates: March 8, 2004; March 17, 2004; April 8, 2004; July 29, 2004; and August 10, 2004. Tables 2-8a, 2-8b, and 2-8c summarize the analytical results for the soil vapor monitoring points.

Sub-slab monitoring points (shown on Figure 2-7) were installed in the basement of the HCC on July 27 and 28, 2004. Table 2-9 summarizes the analytical results for subslab vapor samples collected from these points on July 30, 2004. Beneath the basement slab, methane concentrations in soil vapor ranged between 51% and 71% and benzene concentrations ranged between 170,000 and 260,000 parts ppbv.

Table 2-10 summarizes the soil vapor analytical results for benzene, isopentane and methane. The concentrations of benzene and methane were mapped for different stratigraphic units beneath the HCC. Figures 2-8a through 2-8c present the methane isoconcentration maps and Figures 2-9a through 2-9c present benzene isoconcentration maps. These results indicate that PHC and methane vapors appear to accumulate at higher concentrations in the North Olive Stratum, the Main Sand, and

directly beneath the concrete floor of the HCC basement. Benzene and methane concentrations are also shown with depth on the cross-sections in Figures 2-5a, 2-5b, and 2-5c.

2.7 Geophysics Survey Results

A geophysical survey was conducted on the HCC property the week of July 26, 2004. The objectives of the survey were to determine the following:

- Possible presence of an abandoned sewer main that may have extended along the original Arbor Street location and directly under the HCC prior to construction in 1952.
- Location of the current sanitary sewer service lateral to the HCC.
- Nature and extent of the former school building foundation in the parking lot area south of the HCC.
- Locations of floor drain lines and active sewer lines beneath the basement floor of the HCC.

The geophysical survey was conducted using electromagnetic (EM) and ground-penetrating radar (GPR) techniques. Figure 2-10 presents the EM-31 ground conductivity contour map. Figure 2-11 presents the EM-31 magnetic susceptibility map. Figure 2-12 presents the EM-61 differential response map. Figure 2-13 presents data interpretation based on the GPR survey conducted inside the HCC basement. Areas of interest identified in the geophysics survey are shown on these figures and include the following.

- Linear features located in the areas west and northwest of the HCC. This includes a linear feature at the possible location of the old sewer line.
- An area of metallic debris in soil fill located northeast of the HCC building.
- The presence of the abandoned pedestrian tunnel under North Delmar Avenue southeast of the HCC building.
- Not detected was the old school building foundation in the parking lot area south of the HCC building.
- The GPR results inside the HCC basement suggest an area of coarser fill is located beneath the concrete slab, as shown on Figure 2-13.

Based on the geophysics results, ENSR conducted test pit excavations to further investigate the identified areas of interest.

2.8 Test Pit Results

Test pit excavations were conducted at the HCC on April 1, 2004 and on August 10 and 11, 2004. The April 1, 2004 test pit was conducted to investigate extent of a buried pipe observed at the west end of the police storage room, and to characterize the nature of the fill material within the footprint of the former school building. Details of the April 1, 2004 test pit results are provided in ENSR's *Draft Initial Vapor Migration Pathway Assessment Report* (submitted to the USEPA on June 1, 2004).

The test pits completed on August 10 and 11, 2004 were conducted to investigate areas of interest identified in the geophysics survey. Figure 2-14 shows the locations of these test pits. Test pit logs and photographs are included in Appendix G. A total of four test pits (TP) were excavated. The TP locations were TP1, TP3, TP4, and TP6, located in the southwest corner, north-central, central, and northeast corner of the property, respectively. Preliminary observations included:

- An abandoned 2-inch cast iron water/natural gas pipe found at approximately six feet below grade at TP4. The pipe was breached by Illinois Power personnel to determine its status. It was determined by Illinois Power and by Jim Hickerson of the Hartford Department of Public Works to be an abandoned water line.

- Fill characterization was made at TP6, and was found to be similar in texture, color, and homogeneity as that found in other study areas within the community center property.

- Subsurface stratigraphy varied little throughout the site; however, the depth of impacted soil varied slightly between TP1, TP3, and TP4.

- An average depth of 14 feet was achieved for TP1, TP3, and TP4, and an approximate depth of 6 feet was achieved at TP6 due to the primary purpose being that of fill characterization.

- The excavation of the subsurface anomalies at TP1, TP3, and TP6 did not reveal sufficient evidence to explain the electromagnetic response produced by the instruments used to collect the subsurface geophysical information.

2.9 Soil Analytical Results

Soil samples were collected for laboratory analysis from soil borings by ENSR and Clayton around the HCC. These samples were analyzed for geotechnical parameters and for chemical analyses. These results are summarized in Table 2-11a, 2-11b, and 2-11c. The analytical reports are included in

Appendix H. Further analysis of this data will be discussed in the VMPA report that will be submitted to the USEPA by the end of October 2004.

3.0 MITIGATION SYSTEM DESIGN PLAN

This section summarizes the mitigation activities that have been completed to date, and presents the preferred technology and implementation plan/schedule for addressing vapor intrusion at the HCC. The section also describes an alternative technology that is currently being reviewed and pilot tested.

3.1 Completed Mitigation Activities

Vapor intrusion mitigation activities completed to date in the HCC have included foundation wall and floor crack sealing (completed August 6 through 9, 2004), and installing vapor-proof check valves in floor drains present in the basement (completed August 19 and 20, 2004). In addition, 24-hour indoor air samples are being collected on a weekly basis at various locations in the HCC to monitor the effectiveness of these mitigation activities,

Another mitigation activity that is currently being evaluated is reversal of the air flow at the existing ventilation fan systems located in the police evidence room (southwest corner of basement) and the cafeteria storage room (east end of cafeteria). Reversing the air flow will supply fresh air into the building and potentially increase the ambient air pressure to reduce the vapor infiltration. Air flow direction for the vent fan in the police evidence room was reversed on August 27, 2004. Modifications to reverse air flow for the ventilation system in the cafeteria storage room are being evaluated. This system contains a blower and air inlets/ducts, which were installed to remove air from the basement cafeteria area and discharging it directly to the outside of the HCC. Weekly indoor air sampling is being conducted to evaluate the effectiveness of reversing air flow.

3.2 Preferred Mitigation Technology

Analyses of soil vapor samples collected from around and below the HCC in August 2004 have shown that methane and petroleum hydrocarbon constituents (PHCs) are present in the North Olive Stratum, which is located approximately 10 to 15 feet below ground surface and beneath the basement slab of the HCC. Beneath the basement slab, methane concentrations in soil vapor range between 51% and 71% and benzene concentrations range between 170,000 and 260,000 parts per billion by volume (ppbv). Similar concentrations are observed in the North Olive Stratum. Given these concentrations, vapor removal is the preferred technology for mitigating vapor intrusion. This may potentially be accomplished by employing SVE technology to a network of vapor extraction wells located adjacent and external to the HCC. In addition to reducing the PHC impacts to indoor air at the HCC, the SVE technology will also aim to decrease PHC mass and associated methane gas from the soil beneath the HCC.

Results of indoor air sample analyses have also shown that PHCs are present in indoor air at the HCC above outdoor air concentrations. To address the direct intrusion of PHCs that is likely occurring from

the subsurface, sub-slab depressurization (SSD) system technology is being considered as a mitigation method. The SSD system will target the removal of PHCs and methane that are beneath the basement floor before they can infiltrate into indoor air.

Currently, preferred vapor mitigation technologies include either the exterior SVE system for removing vapors from soil beneath and adjacent to the HCC, an interior SSD system for removing vapors beneath the HCC and preventing vapor infiltration into indoor air, or a combination of the two.

Because the influence that an SVE or SSD system may have on the North Olive Stratum at the HCC is not known, pilot testing will be conducted prior to finalizing a design. A general description of the recommended additional design data requirements and implementation plan for the preferred vapor mitigation system are discussed herein for both SVE and SSD technologies.

3.3 SVE Pilot Test

An SVE pilot test is planned for the HCC to evaluate the expected influence from a vapor extraction system placed in the North Olive Stratum. The purpose of the pilot test is to determine the influence from a soil vapor extraction well in the North Olive Stratum. This information will then be evaluated to determine if an expansion of the existing vapor control system or installation of a separate SVE system would be effective at controlling and/or removing methane and PHCs from the North Olive Stratum, thereby mitigating the vapor intrusion at the HCC. It is proposed that the SVE pilot test be conducted at three different locations at the HCC using existing wells HMW-45, HMW-46 and HMW-47 as shown on the attached figure (Figure 3-1, Proposed SVE Pilot Test Location). Vapor monitoring probes installed as part of the VMPA will be utilized during the pilot test to obtain vacuum influence readings and to assess PHC concentrations. Figure 3-1 shows the locations of the test wells and adjacent vapor monitoring points (VMPs) that will be used during the tests. An additional five (5) vapor monitoring probes will be installed in the North Olive Stratum to provide adequate vacuum response monitoring during the tests (see Figure 3-1).

Concurrent with the SVE pilot test, an SSD pilot test will also be conducted in the basement of the HCC. The SSD pilot test will gather the required data to evaluate the influence from vapor extraction points placed immediately beneath the basement floor of the HCC. This information will be evaluated to determine if a SSD system would be effective at controlling and/or removing the methane and PHC from infiltrating into the basement of the HCC. It is proposed that the SSD pilot test be conducted at two locations inside the HCC basement area (cafeteria and locker room as shown on Figure 3-2) utilizing two vapor extraction points. An additional six (6) vapor monitoring probes will be installed as part of the pilot test to obtain vacuum influence readings during the tests. The pilot test will follow the procedures outlined in the Vapor Intrusion Mitigation Pilot Test Work Plan, (ENSR, December 2003) for SSD system pilot testing. Pressures in the subslab monitoring points will be measured to determine potential effects of the SVE system on vapor flow prior to initiation of the SSD.

3.4 Alternate Vapor Mitigation Activities

In addition to addressing vapor intrusion at the HCC by SVE and SSD systems, alternate vapor mitigation technologies that focus on reducing concentrations of PHCs in indoor air are also being considered. An air-purifying system, such as those manufactured by AllerAir®, has been obtained by the HWG and will be evaluated to determine if a reduction in PHC concentrations can be achieved by employing one or more of these units in the basement areas of the HCC. The AllerAir® unit is a self-contained air purifier that can trap particulate matter and remove PHCs in ambient air by filtration. Ambient air drawn into the unit is treated by activated carbon filters that are built into each unit. As the air-purifying units operate continuously, a reduction in PHC vapor concentrations may be achieved during operation of these systems.

A pilot test will be conducted to determine the effectiveness of an air-purifying system.. The goal of the pilot test will be to determine if the system will effectively control and/or remove PHCs that may infiltrate into the basement of the HCC. The pilot test will be conducted by mobilizing an AllerAir® unit into one of the partitioned rooms in the basement (e.g., a storage room or a locker room) of the HCC and monitoring its effectiveness by frequently testing for reductions in PHC concentrations in ambient air over a period of several days. If the pilot test shows favorable results, then application of a number of these units into the basement area of the HCC may be considered by the HWG as an alternate vapor mitigation method.

3.5 Implementation Plan and Schedule

The schedule for implementing the pilot tests, alternate vapor mitigation activities, and preparing the design report is shown in Figure 3-3. SVE/SSD pilot test equipment can be mobilized to the HCC upon Agency approval of this Design Plan. Pilot testing is expected to take 2 to 3 weeks to complete. Evaluation of the results, including the development of a preliminary pilot test report can be completed within 3 weeks following completion of the pilot test. Preparation and submittal of a design report can be completed within 3 weeks from the conclusion of the pilot tests. Installation of the appropriate system(s) is anticipated to start following agency approval of the design.

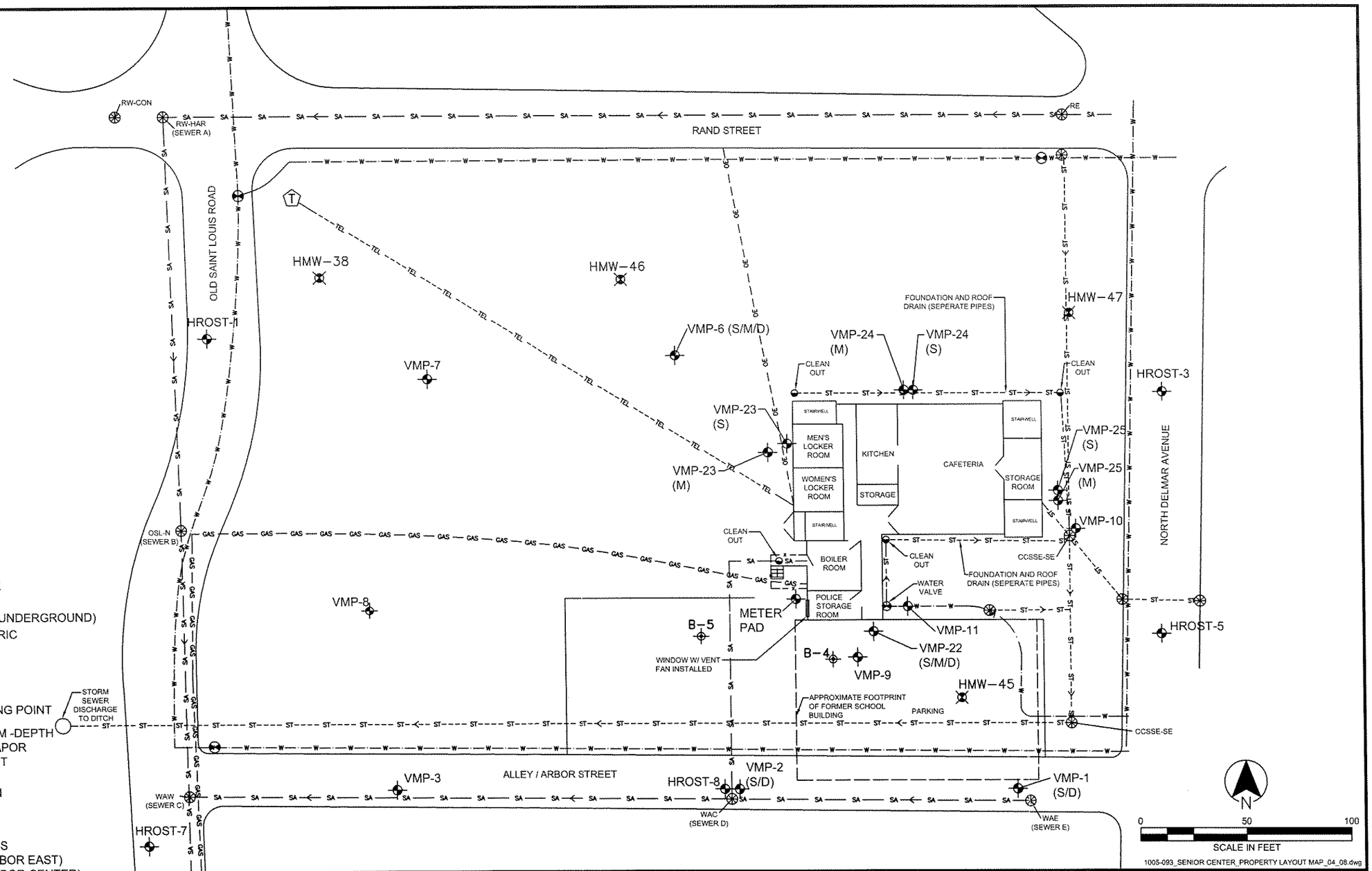
4.0 REFERENCES

Clayton, April 2004. FPH CPT/ROST™ Subsurface Investigation Report and FPH Monitoring Well and Soil Sampling Plan for the Village of Hartford, Illinois. Prepared for the Hartford Working Group. Clayton Project No. 15-03095.14.003.

ENSR, December 2003. Vapor Intrusion Mitigation Pilot Test Work Plan, Hartford, Illinois. Prepared for the Hartford Working Group. ENSR Document No. 01005-093-200.

ENSR, June 2004. DRAFT - Initial Vapor Migration Pathway Assessment Report. Prepared for the Hartford Working Group. ENSR Document No. 01005-093-350.

FIGURES



NOTE:
ALL UTILITY LOCATIONS AND BUILDING DIMENSIONS ARE APPROXIMATE

LEGEND:

- SA — SANITARY SEWER
- ST — STORM SEWER
- GAS — NATURAL GAS LINE
- W — WATER LINE
- TEL — TELEPHONE LINE (UNDERGROUND)
- OE — OVERHEAD ELECTRIC
- HROST-1 — HROST POINT
- VMP-1 (S/M/D) — VAPOR MONITORING POINT; SHALLOW / MEDIUM -DEPTH / DEEP NESTED VAPOR MONITORING POINT
- B-4 — BORING LOCATION
- WATER VALVE
- SEWER LOCATIONS
  - WAE - (WEST ARBOR EAST)
  - WAC - (WEST ARBOR CENTER)
  - WAW (WEST ARBOR WEST)
  - OSL-N - (OLD SAINT LOUIS-NORTH)
  - RW-CON - (RAND-WEST-CONOCO PHILLIPS SEWER)
  - RW-HAR - (RAND-WEST HARTFORD SEWER)
  - RE - (RAND EAST)
  - CCSSE - COMUNITY CENTER STORM SEWER EAST)
- HMW-38 — APPROXIMATE LOCATION OF CLAYTON MONITORING WELL

PROPERTY LAYOUT MAP

HARTFORD COMMUNITY CENTER
715 NORTH DELMAR
HARTFORD, IL
HARTFORD WORKING GROUP

August 2004

File No.: 01005-093

FIGURE 1-1

ENSR INTERNATIONAL
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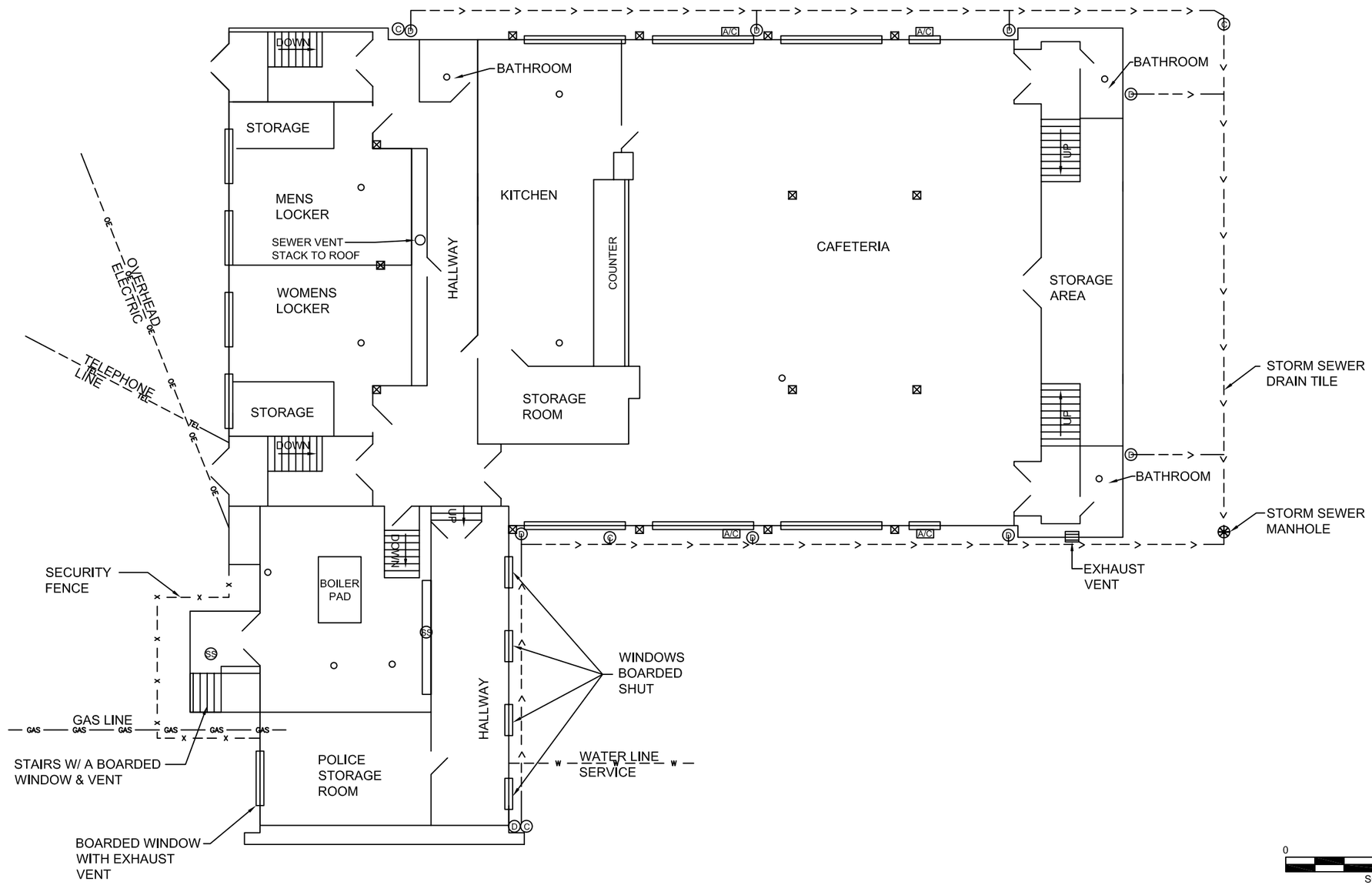

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LEGEND:

- COLUMNS
- AIR CONDITIONER
- CLEAN OUT
- DOWN SPOUT
- SANITARY SEWER CLEAN OUT
- FLOOR DRAIN
- WINDOW

BUILDING INTERIOR BASEMENT LAYOUT

HARTFORD COMMUNITY CENTER
715 NORTH DELMAR
HARTFORD, IL
HARTFORD WORKING GROUP

August 2004

File No.: 01005-093

FIGURE 2-1

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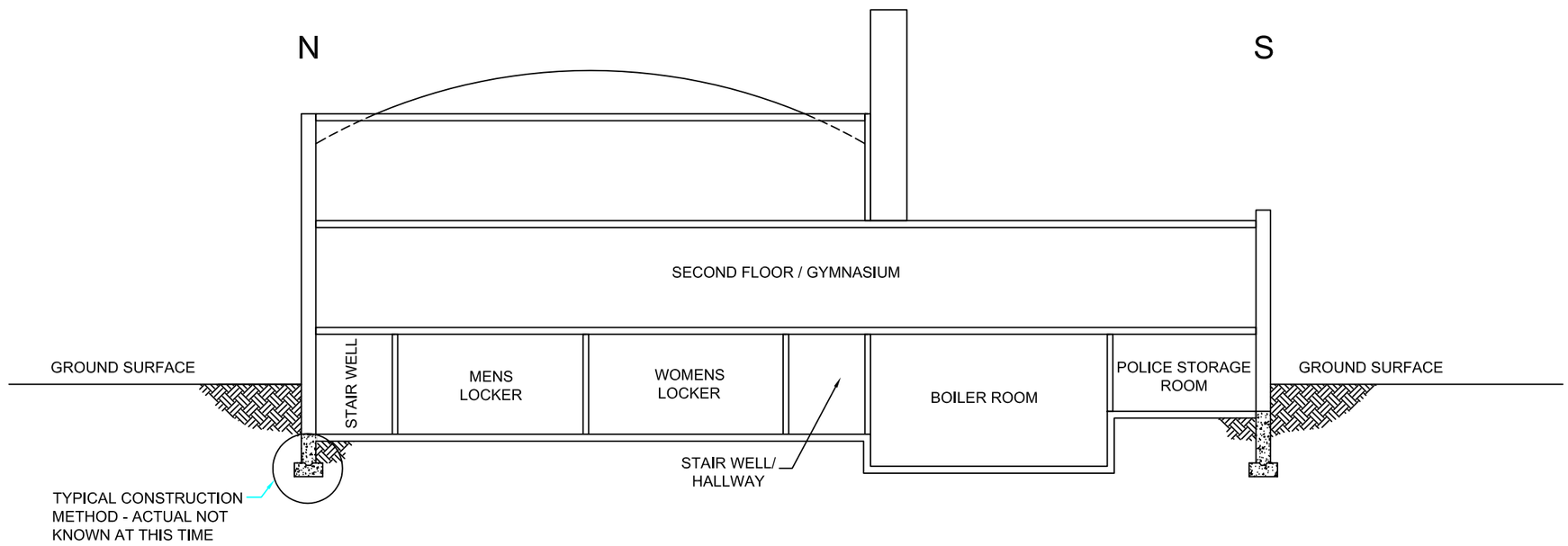
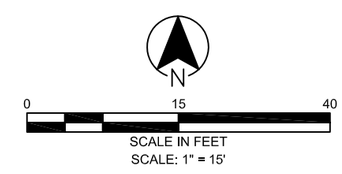
CROSS - SECTION





1005-093_SENIOR CENTER_INTETERIOR LAYOUT_04_07.dwg

NOTE:
THIS CROSS SECTION IS A GRAPHIC REPRESENTATION OF THE BUILDING AND SHOULD BE USED FOR GENERAL REFERENCE ONLY.

BUILDING CROSS SECTION
NORTH - SOUTH PROFILE

HARTFORD COMMUNITY CENTER
715 NORTH DELMAR
HARTFORD, IL
HARTFORD WORKING GROUP

August 2004

File No.: 01005-093

FIGURE 2-2

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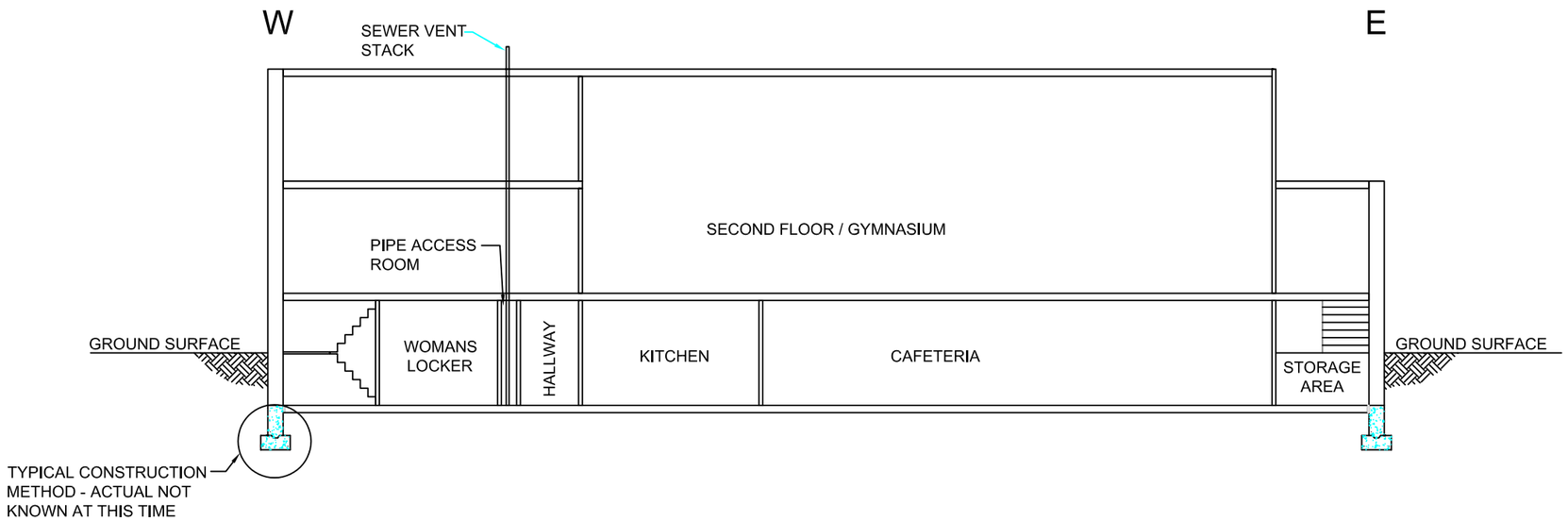
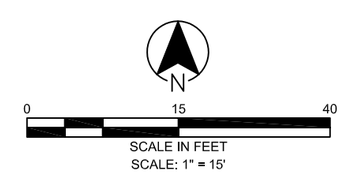
CROSS - SECTION





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BUILDING CROSS SECTION
WEST - EAST PROFILE

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715 NORTH DELMAR
HARTFORD, IL
HARTFORD WORKING GROUP

August 2004

File No.: 01005-093

FIGURE 2-3

ENSR INTERNATIONAL
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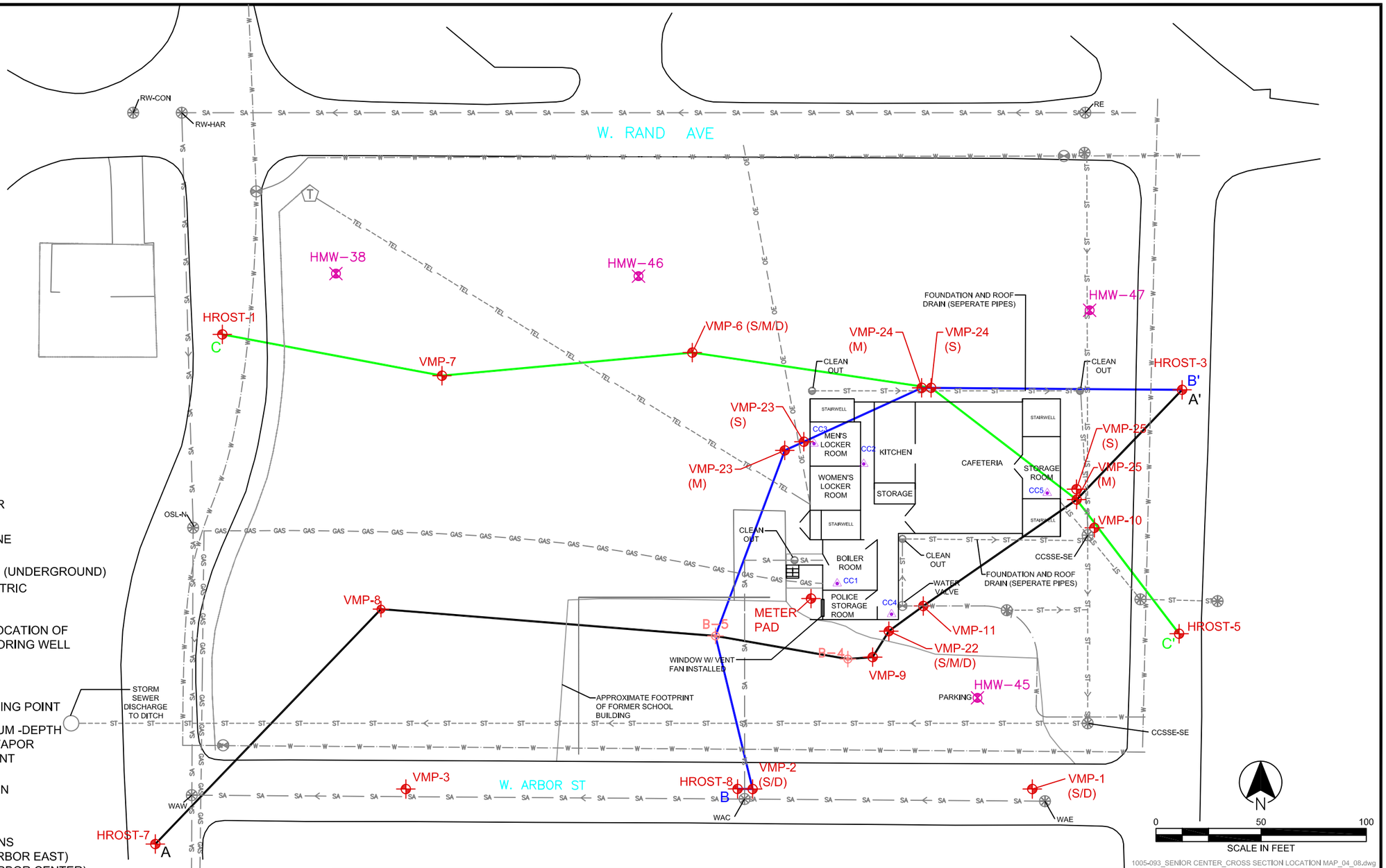


NOTE:
ALL UTILITY LOCATIONS AND BUILDING DIMENSIONS ARE APPROXIMATE

LEGEND:

- SA — SANITARY SEWER
- ST — STORM SEWER
- GAS — NATURAL GAS LINE
- W — WATER LINE
- TEL — TELEPHONE LINE (UNDERGROUND)
- OE — OVERHEAD ELECTRIC
- HMW-38 — APPROXIMATE LOCATION OF CLAYTON MONITORING WELL
- HROST-1 — HROST POINT
- VMP-1 — VAPOR MONITORING POINT
- (S/M/D) — SHALLOW / MEDIUM -DEPTH / DEEP NESTED VAPOR MONITORING POINT
- B-4 — BORING LOCATION
- WATER VALVE
- SEWER LOCATIONS
  - WAE - (WEST ARBOR EAST)
  - WAC - (WEST ARBOR CENTER)
  - WAW (WEST ARBOR WEST)
  - OSL-N - (OLD SAINT LOUIS-NORTH)
  - RW-CON - (RAND-WEST-CONOCO PHILLIPS SEWER)
  - RW-HAR - (RAND-WEST HARTFORD SEWER)
  - RE - (RAND EAST)
  - CCSSE - COMUNITY CENTER STORM SEWER EAST)
- CC1 — SUB-SLAB VAPOR MONITORING POINTS

CROSS SECTION LOCATION MAP

HARTFORD COMMUNITY CENTER
715 NORTH DELMAR
HARTFORD, IL
HARTFORD WORKING GROUP

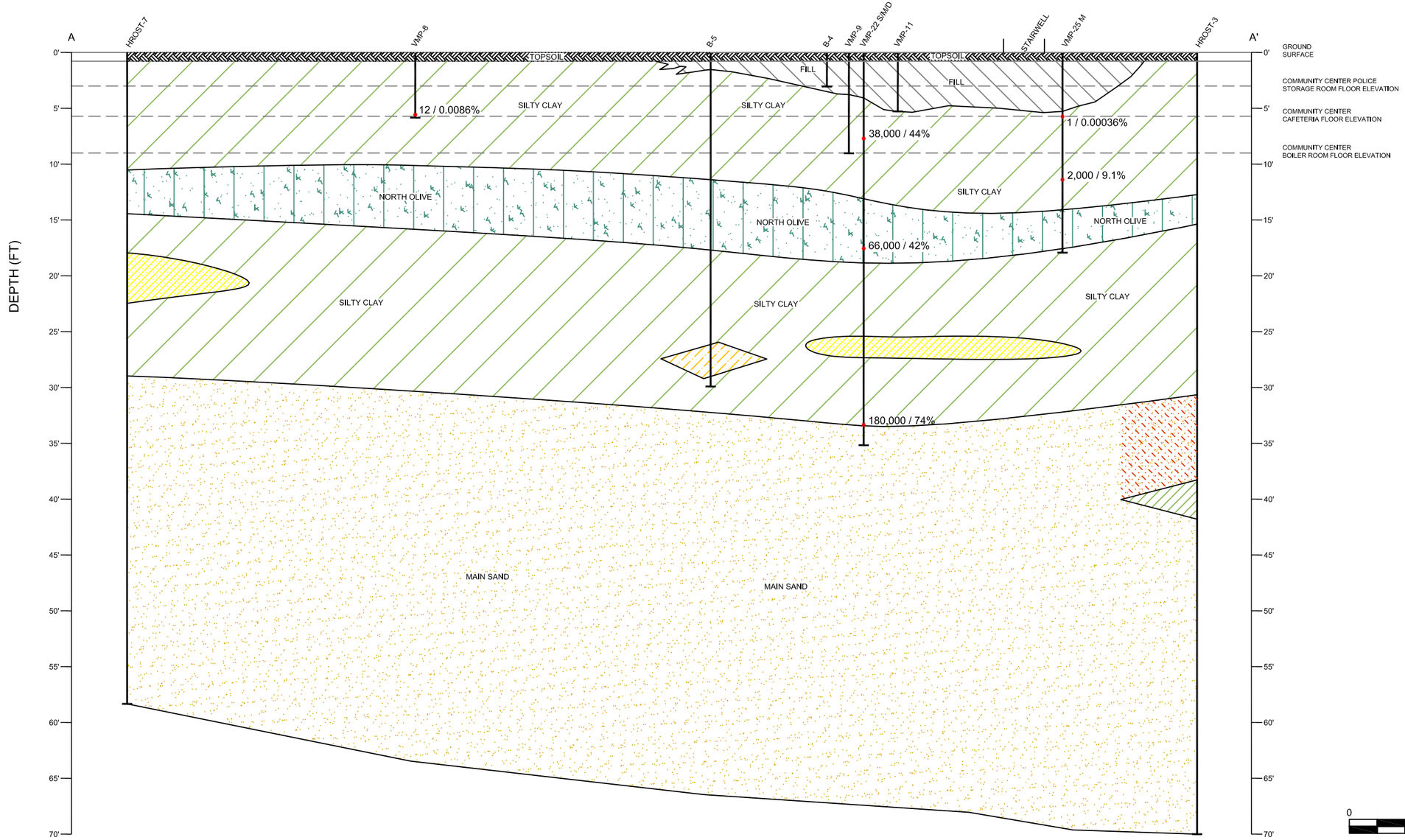
September 2004

File No.: 01005-093

FIGURE 2-4

ENSR INTERNATIONAL
CONSULTING • ENGINEERING • REMEDIATION

U:\Cad_Drive\01000-01999\1005\093\Chris Buckman\1005-093_SENIOR CENTER_CROSS SECTION_A-A';B-B';C-C'_04_08.dwg



HORIZONTAL SCALE
0 60 120
SCALE IN FEET

VERTICAL SCALE
0 10 20
SCALE IN FEET

DRAFT - WORK IN PROGRESS

LEGEND:

- TOPSOIL
- SILTY CLAY
- NORTH OLIVE STRATUM
- RAND STRATUM
- EPA STRATUM
- PERMEABLE LENSES
- MAIN SAND
- BACKFILL
- 12 / 0.0086% — VAPOR MONITORING POINT (VMP) WITH BENZENE (ppbv) / METHANE CONCENTRATION

GEOLOGIC CROSS SECTION A-A'

HARTFORD COMMUNITY CENTER
715 NORTH DELMAR
HARTFORD, IL
HARTFORD WORKING GROUP

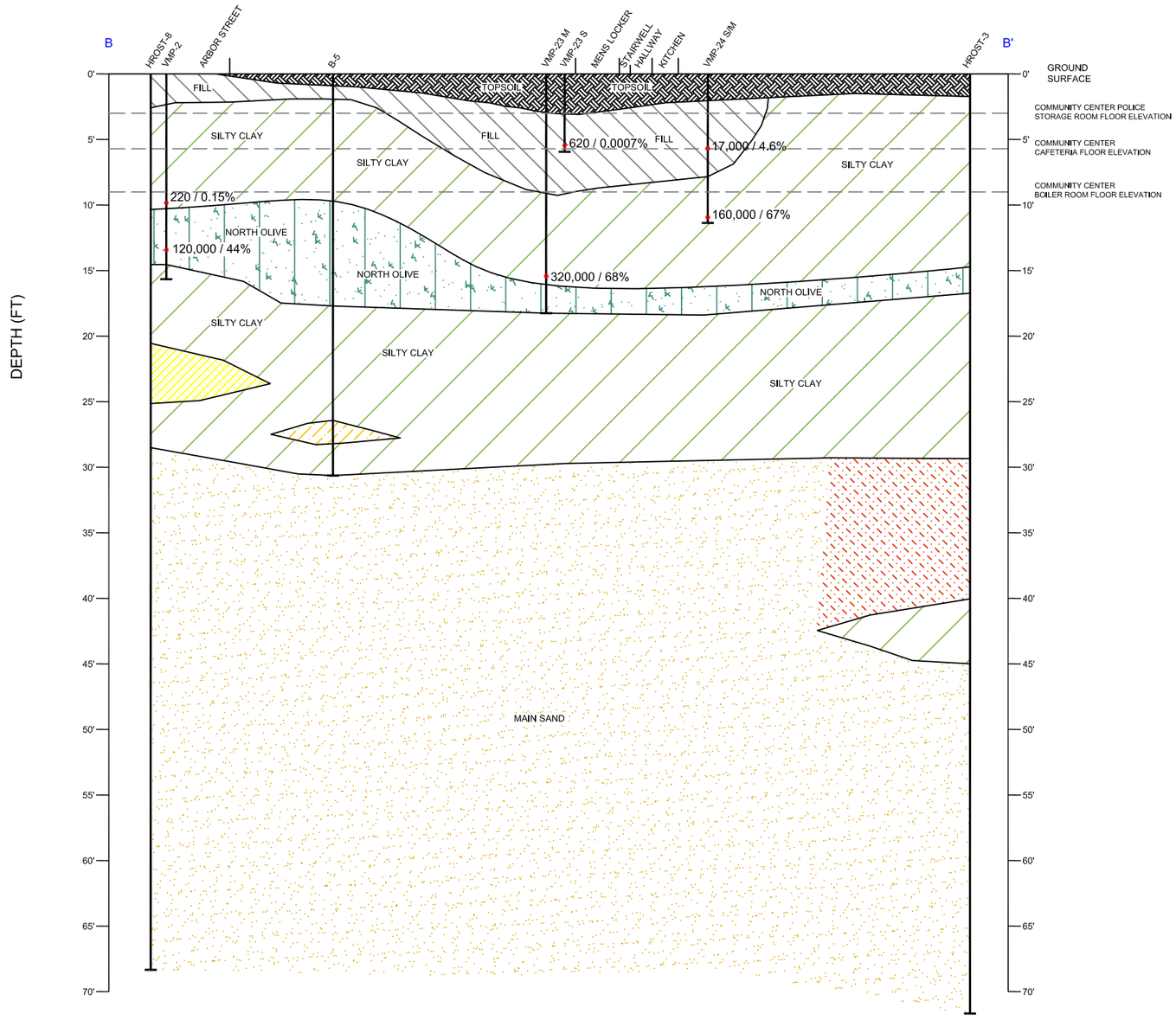
September 2004

File No.: 01005-093

FIGURE 2-5A

ENSR INTERNATIONAL
CONSULTING • ENGINEERING • REMEDIATION

U:\Cad_Drive\01000-01999\1005\093\Chris Buckman\1005-083_SENIOR CENTER_CROSS SECTION_A - A'_04_08.dwg



HORIZONTAL SCALE
0 60 120
SCALE IN FEET

VERTICAL SCALE
0 10 20
SCALE IN FEET

LEGEND:

- TOPSOIL
- SILTY CLAY
- NORTH OLIVE STRATUM
- RAND STRATUM
- EPA STRATUM
- PERMEABLE LENSES
- MAIN SAND
- BACKFILL
- 12 / 0.0086% — VAPOR MONITORING POINT (VMP) WITH BENZENE (ppbv) / METHANE CONCENTRATION

DRAFT - WORK IN PROGRESS

GEOLOGIC CROSS SECTION B-B'

HARTFORD COMMUNITY CENTER
715 NORTH DELMAR
HARTFORD, IL
HARTFORD WORKING GROUP

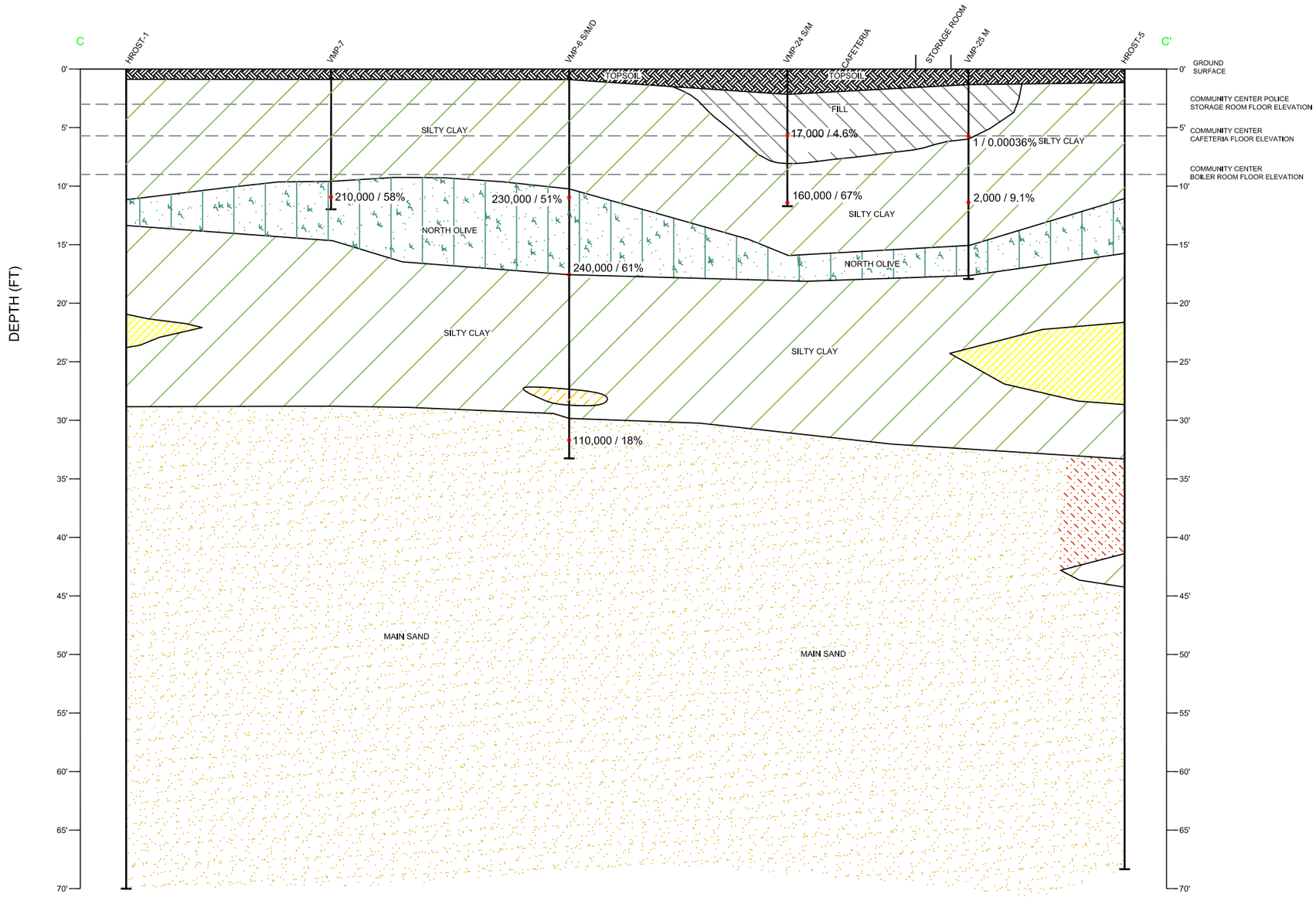
September 2004

File No.: 01005-093

FIGURE 2-5B

ENSR INTERNATIONAL
CONSULTING • ENGINEERING • REMEDIATION

U:\Cad_Drive\01000-01999\1005093\Chris Buckman\1005-093_SENIOR CENTER_CROSS SECTION_B - B'_04_08.dwg



HORIZONTAL SCALE
0 60 120
SCALE IN FEET

VERTICAL SCALE
0 10 20
SCALE IN FEET

DRAFT - WORK IN PROGRESS

LEGEND:

- TOPSOIL
- SILTY CLAY
- NORTH OLIVE STRATUM
- RAND STRATUM
- EPA STRATUM
- PERMEABLE LENSES
- MAIN SAND
- BACKFILL
- 12 / 0.0086% VAPOR MONITORING POINT (VMP) WITH BENZENE (ppbv) / METHANE CONCENTRATION

GEOLOGIC CROSS SECTION C-C'

HARTFORD COMMUNITY CENTER
715 NORTH DELMAR
HARTFORD, IL
HARTFORD WORKING GROUP

September 2004

File No.: 01005-093

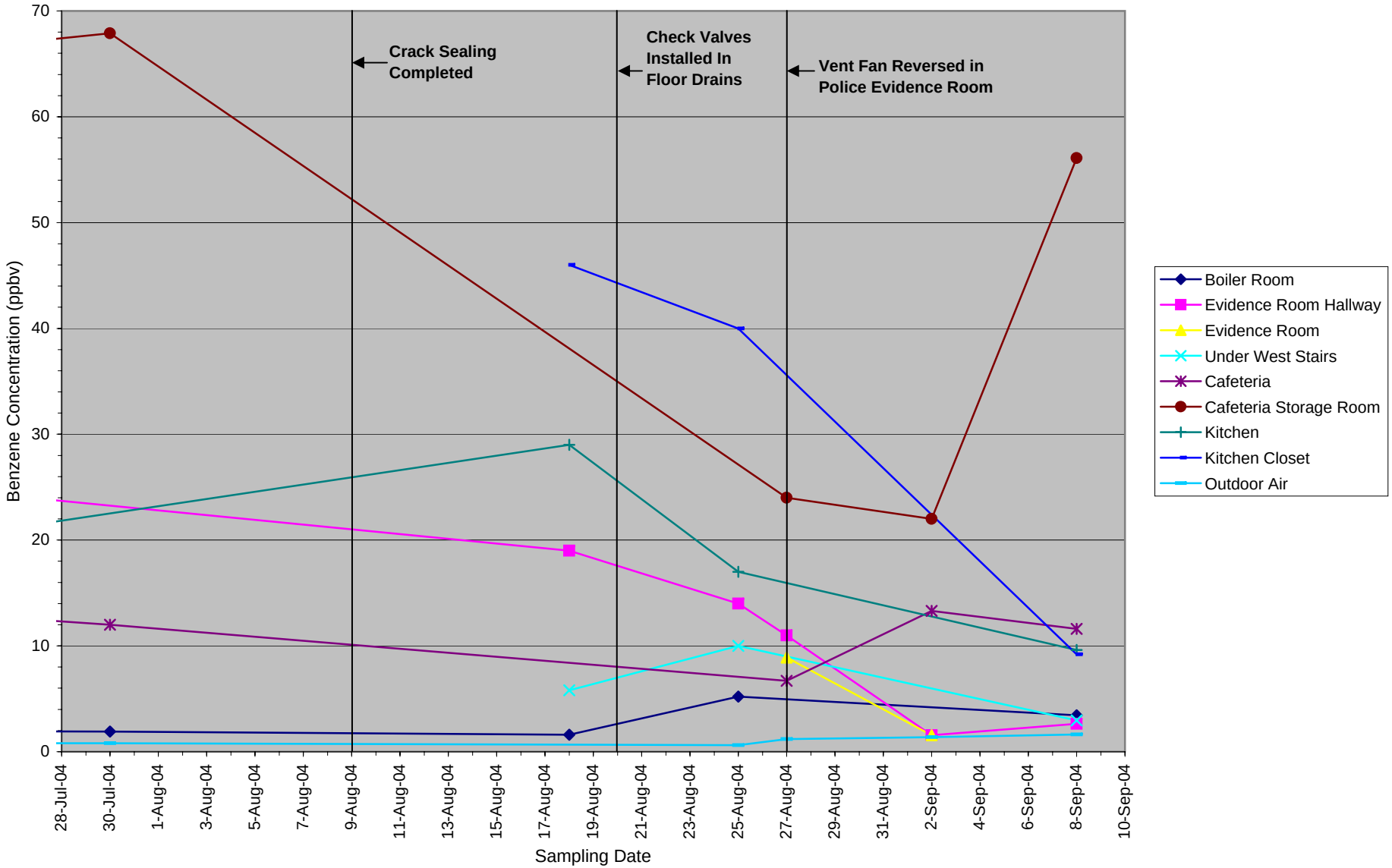
FIGURE 2-5C

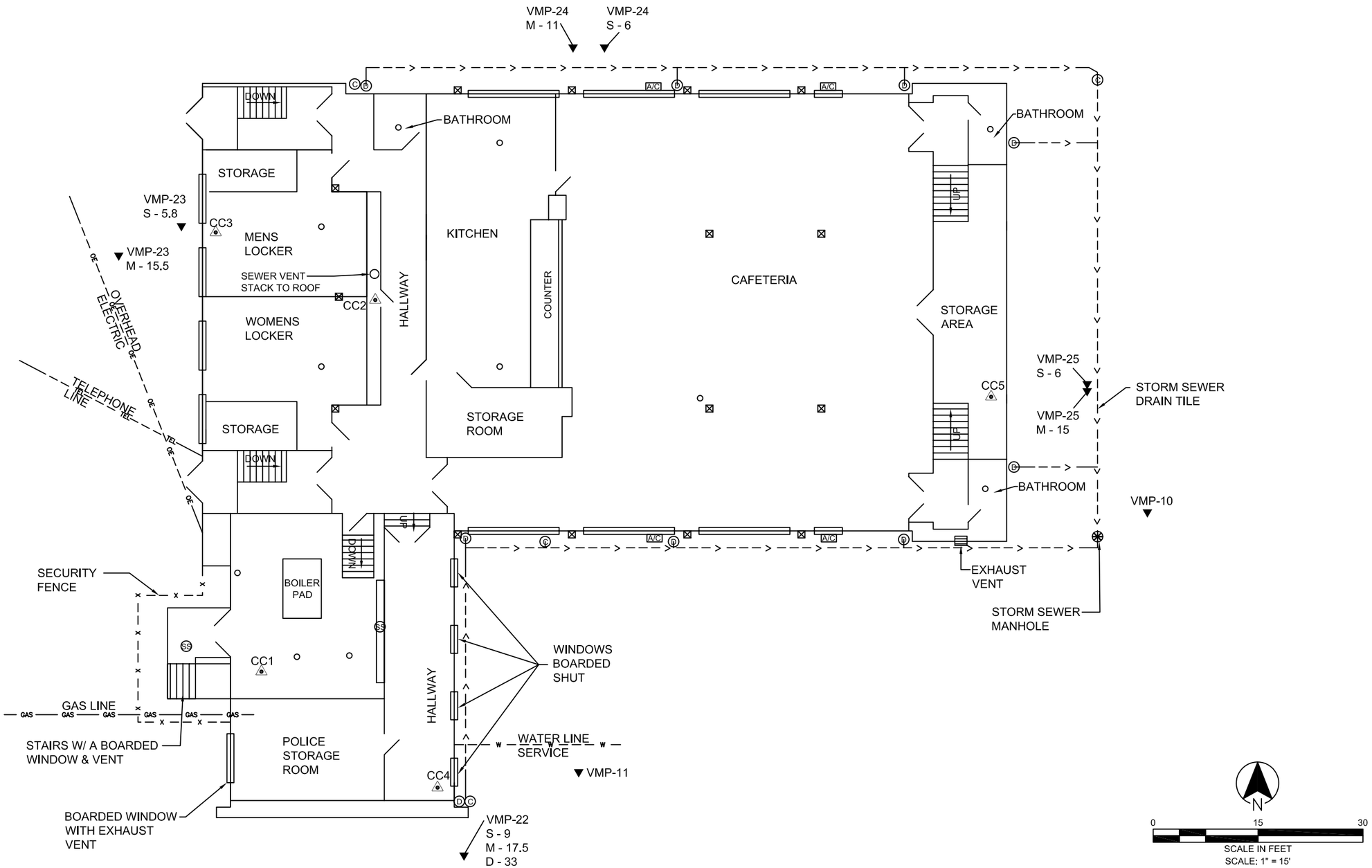
ENSR INTERNATIONAL
CONSULTING • ENGINEERING • REMEDIATION

U:\Cad_Drive\01000-01999\1005\093\Chris Buckman\1005-093_SENIOR CENTER_CROSS SECTION_C - C'_04_08.dwg

FIGURE 2-6

Indoor Air Benzene Concentrations By Room vs. Time
Hartford Community Center





1005-093_SENIOR CENTER_VAPOR MONITORING POINT LOCATIONS_04_07.dwg

LEGEND:

VMP-22 ▼ PERMANENT SOIL VAPOR SAMPLING POINTS WITH DEPTH IN FEET

S - 9 SHALLOW
M - 12.5 MEDIUM
D - 33 DEEP

CC1 SUB-SLAB VAPOR MONITORING POINTS

COLUMNS
A/C AIR CONDITIONER
C CLEAN OUT
D DOWN SPOUT
SS SANITARY SEWER CLEAN OUT
FLOOR DRAIN
WINDOW

LOCATION OF INTERIOR AND EXTERIOR SOIL VAPOR SAMPLING PORTS

HARTFORD COMMUNITY CENTER
715 NORTH DELMAR
HARTFORD, IL
HARTFORD WORKING GROUP

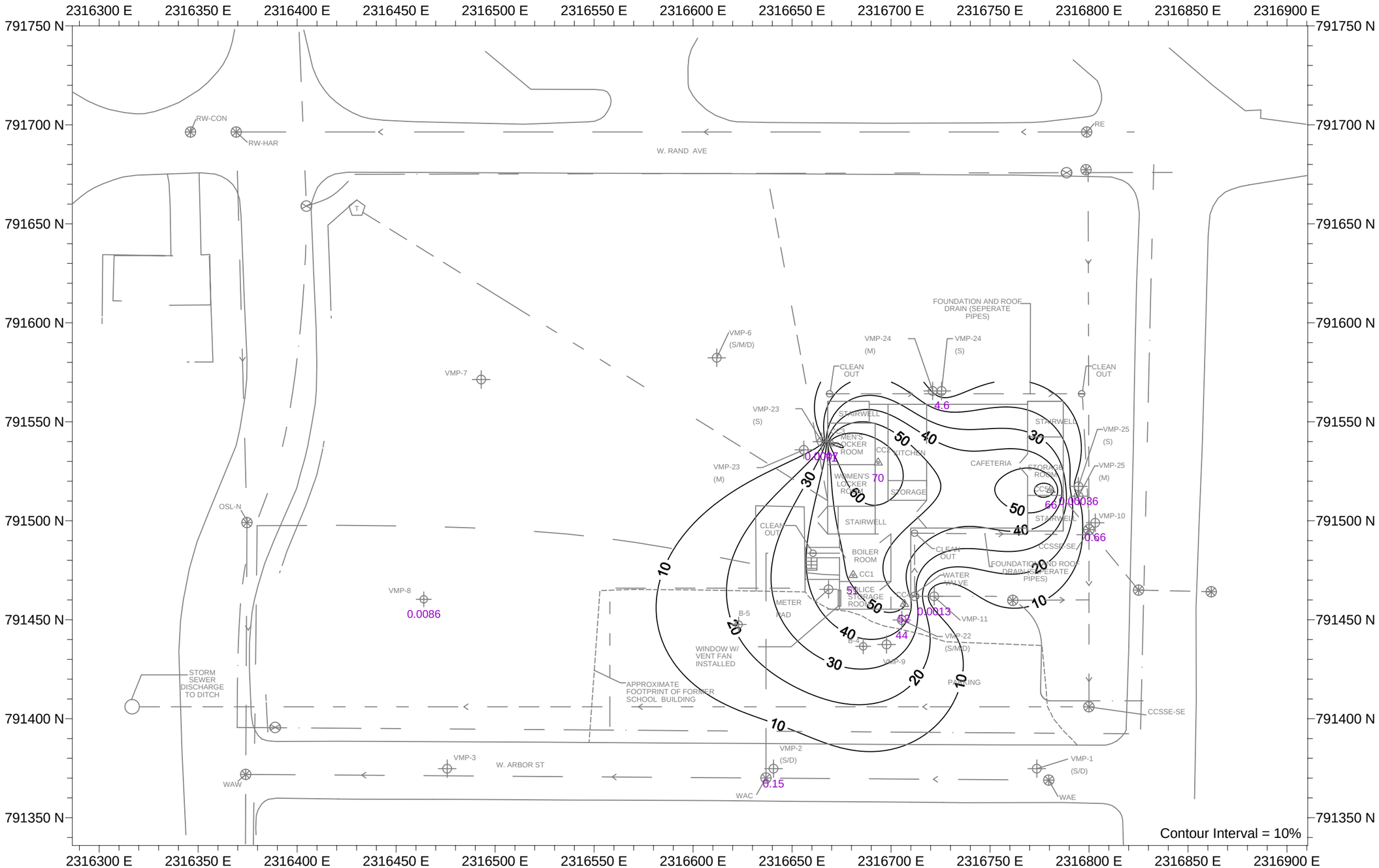
August 2004

File No.: 01005-093

FIGURE 2-7

ENSR INTERNATIONAL
CONSULTING • ENGINEERING • REMEDIATION

U:\Cad_Drive\01000-01999\1005\093\1005-093_SENIOR CENTER_VAPOR MONITORING POINT LOCATIONS_04_07.dwg



Label	Methane (%)
VMP-1	----
VMP-2	0.15
VMP-3	----
VMP-6	----
VMP-7	----
VMP-8	0.0086
VMP-10	0.66
VMP-11	0.0013
VMP-22	44
VMP-23S	0.0007
VMP-23M	----
VMP-24S	4.6
VMP-24M	----
VMP-25	0.00036
CCVMP-1	51
CCVMP-2	70
CCVMP-3	71
CCVMP-4	52
CCVMP-5	66

LEGEND

- VMP Port Location and Methane Concentration (%) — 10
- Subslab VMP Location and Methane Concentration (%) — 51
- Sewer Manhole Location
- Methane Concentration Contour Line

Contour Interval = 10%

N

SCALE: 1 in. = 50 ft

0 ft 50 ft 100 ft

DRAWN BY: CB	DATE: 09/22/04	PROJECT NO.:
APPROVED BY: DS	REVISED: ----	01005-093-400

Methane Isoconcentration Map - Shallow Overburden
(Soil Vapor Data Collected July 29, 2004)
Hartford Community Center, Hartford, Illinois

ENSR® INTERNATIONAL
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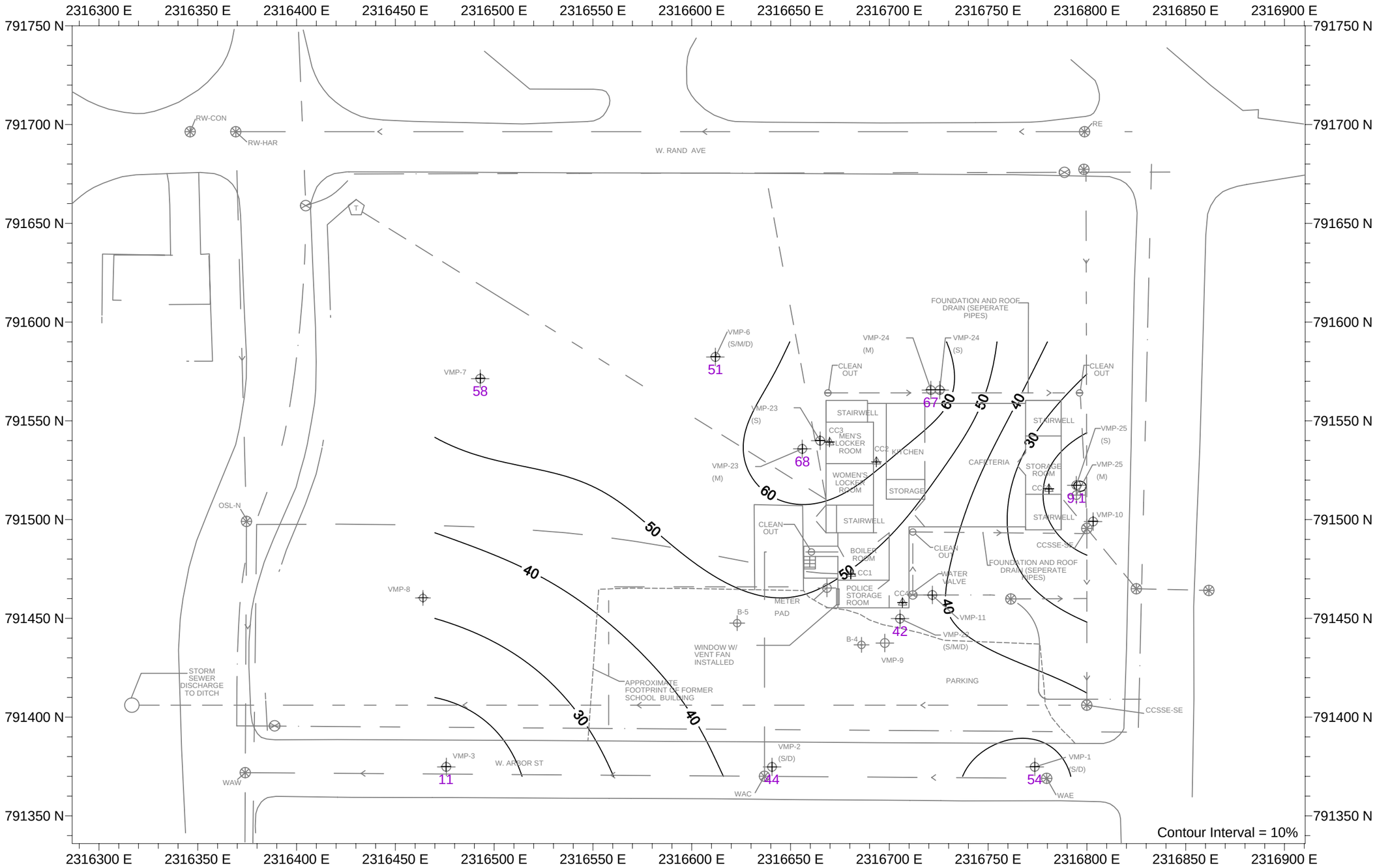
Figure 2-8a



Label	Methane (%)
VMP-1	54
VMP-2	44
VMP-3	11
VMP-6	51
VMP-7	58
VMP-8	----
VMP-10	----
VMP-11	----
VMP-22	42
VMP-23S	----
VMP-23M	68
VMP-24S	----
VMP-24M	67
VMP-25	9.1

LEGEND

- VMP Port Location and Methane Concentration (%) — 10
- Subslab VMP Location and Methane Concentration (%) — 51
- Sewer Manhole Location
- Methane Concentration Contour Line

Contour Interval = 10%

N

SCALE: 1 in. = 50 ft

0 ft 50 ft 100 ft

DRAWN BY: CB	DATE: 09/22/04	PROJECT NO.:
APPROVED BY: DS	REVISED: ----	01005-093-400

Methane Isoconcentration Map - North Olive Stratum
(Soil Vapor Data Collected July 29, 2004)
Hartford Community Center, Hartford, Illinois

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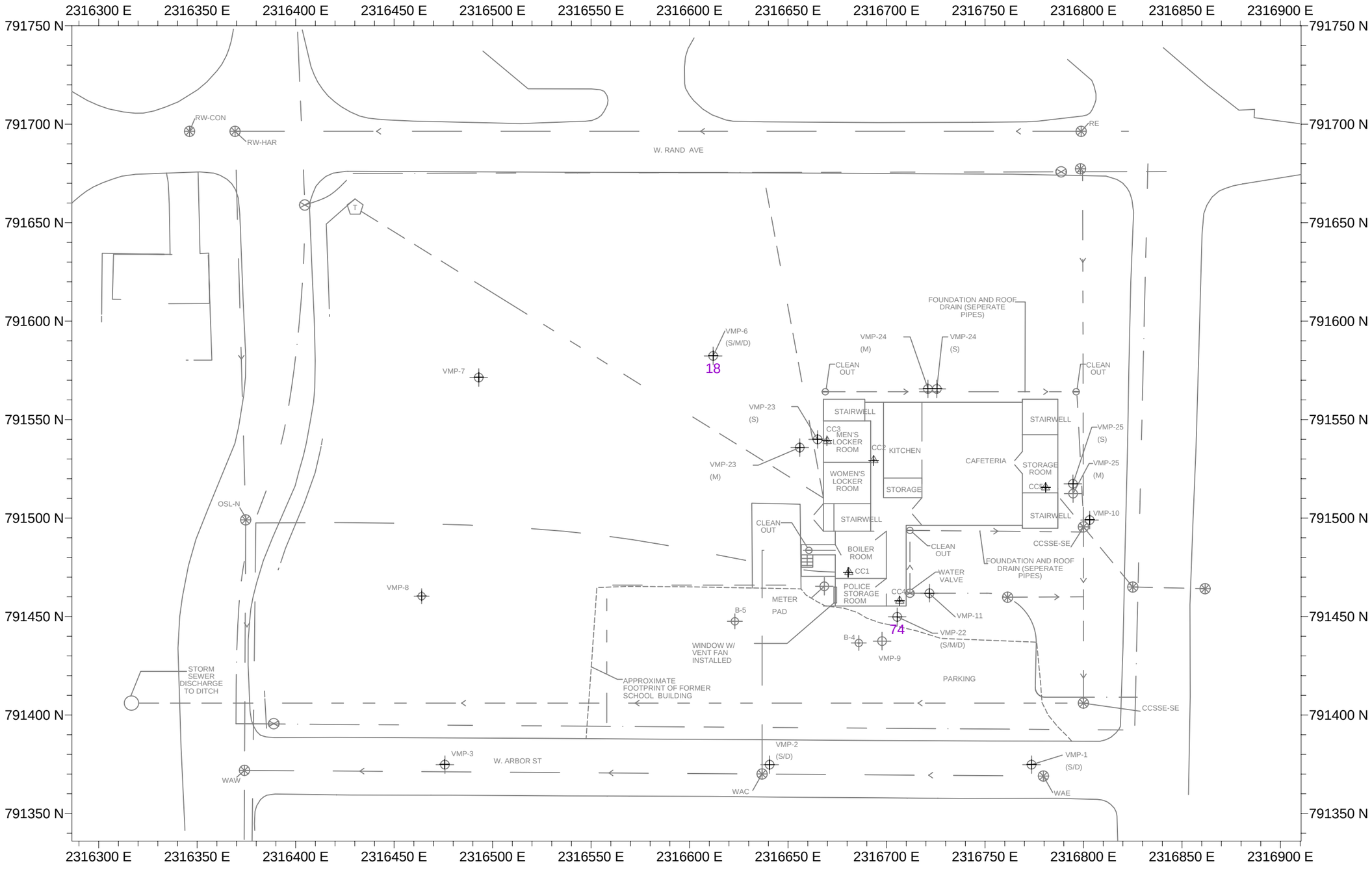
Figure 2-8b



Label	Methane (%)
VMP-1	----
VMP-2	----
VMP-3	----
VMP-6	18
VMP-7	----
VMP-8	----
VMP-10	----
VMP-11	----
VMP-22	74
VMP-23S	----
VMP-23M	----
VMP-24S	----
VMP-24M	----
VMP-25	----

LEGEND

- VMP Port Location and Methane Concentration (%) (10)
- Subslab VMP Location and Methane Concentration (%) (51)
- Sewer Manhole Location

N

SCALE: 1 in. = 50 ft

0 ft 50 ft 100 ft

DRAWN BY: CB	DATE: 09/22/04	PROJECT NO.:
APPROVED BY: DS	REVISED: ----	01005-093-400

Methane Isoconcentration Map - Main Sand
(Soil Vapor Data Collected July 29, 2004)
Hartford Community Center, Hartford, Illinois

Figure 2-8c

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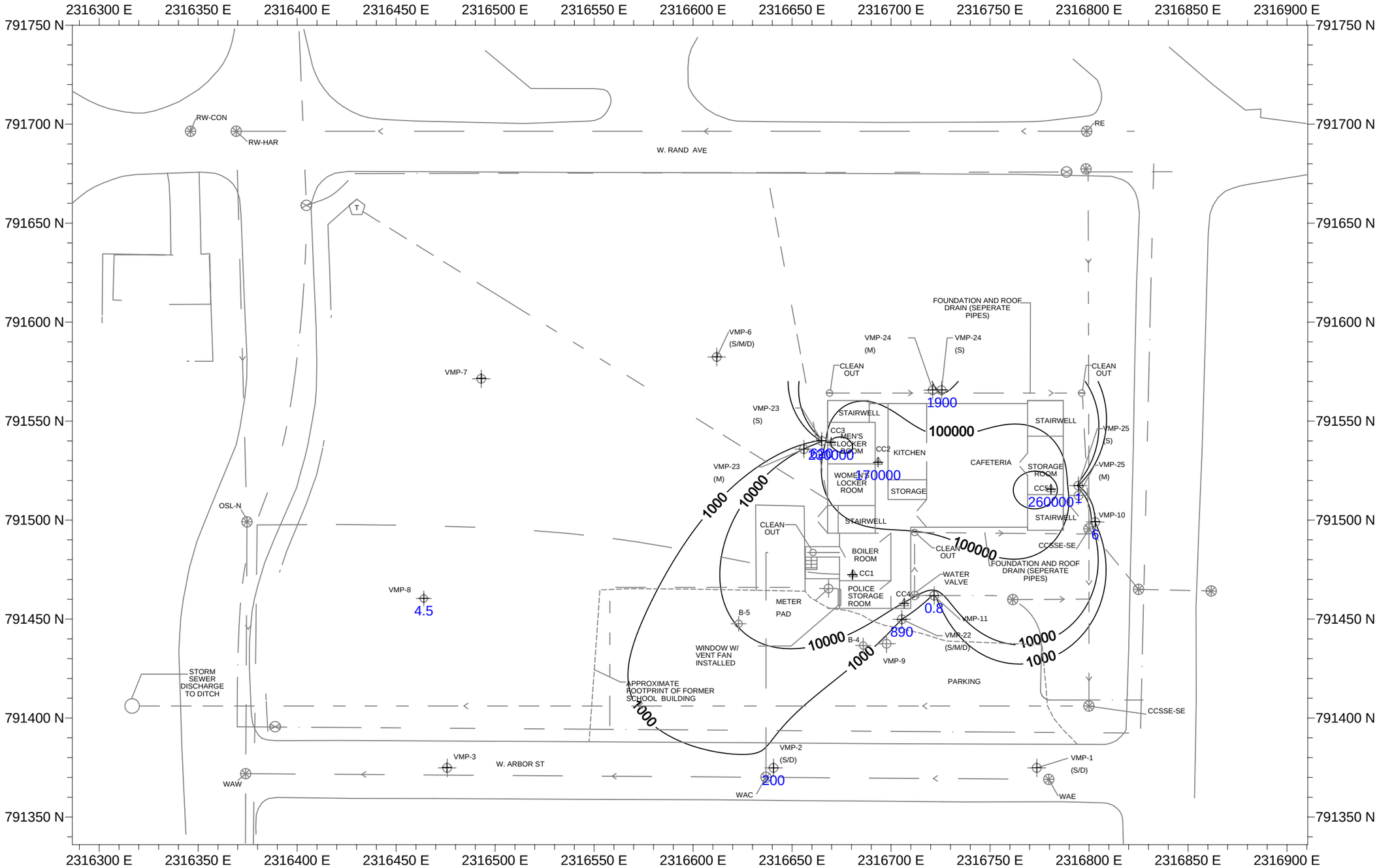

Label	Benzene (ppbV)
VMP-1	----
VMP-2	200
VMP-3	----
VMP-6	----
VMP-7	----
VMP-8	4.5
VMP-10	6
VMP-11	0.8
VMP-22	890
VMP-23S	620
VMP-23M	----
VMP-24S	1900
VMP-24M	----
VMP-25	1
CCVMP-1	----
CCVMP-2	170000
CCVMP-3	230000
CCVMP-4	----
CCVMP-5	260000

LEGEND

- VMP Port Location and Benzene Concentration (ppbV) — 10
- Subslab VMP Location and Benzene Concentration (ppbV) — 51
- Sewer Manhole Location
- Benzene Concentration Contour Line

N

SCALE: 1 in. = 50 ft

0 ft 50 ft 100 ft

DRAWN BY: CB	DATE: 09/22/04	PROJECT NO.:
APPROVED BY: DS	REVISED: ----	01005-093-400

Benzene Isoconcentration Map - Shallow Overburden
(Soil Vapor Data Collected July 29, 2004)
Hartford Community Center, Hartford, Illinois

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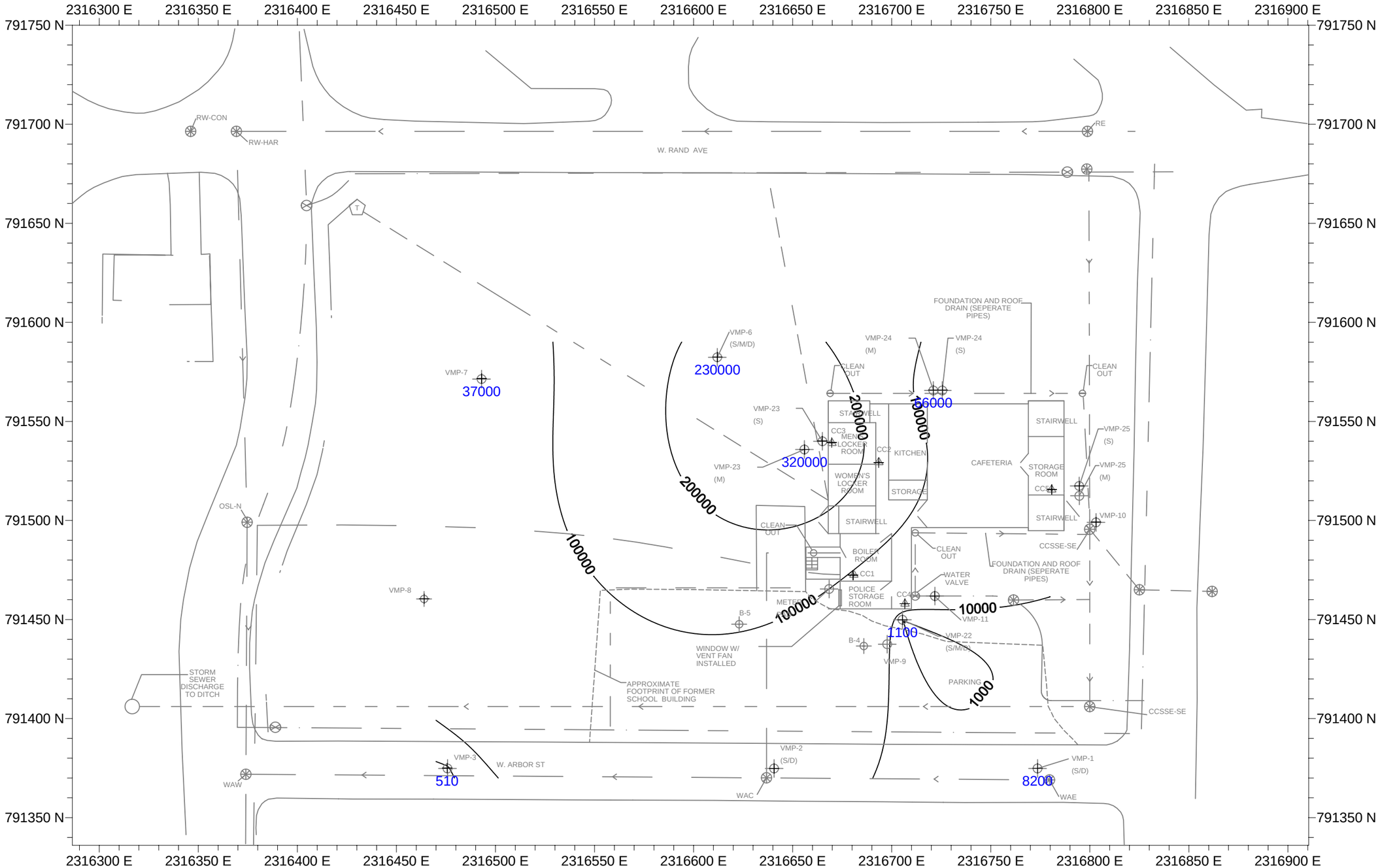
Figure 2-9a



Label	Benzene (ppbV)
VMP-1	8200
VMP-2	----
VMP-3	510
VMP-6	230000
VMP-7	37000
VMP-8	----
VMP-10	----
VMP-11	----
VMP-22	1100
VMP-23S	----
VMP-23M	320000
VMP-24S	----
VMP-24M	66000
VMP-25	----

LEGEND

- 10 — VMP Port Location and Benzene Concentration (ppbV)
- 51 — Subslab VMP Location and Benzene Concentration (ppbV)
- Sewer Manhole Location
- Benzene Concentration Contour Line

N

SCALE: 1 in. = 50 ft

0 ft 50 ft 100 ft

DRAWN BY: CB	DATE: 09/22/04	PROJECT NO.:
APPROVED BY: DS	REVISED: ----	01005-093-400

Benzene Isoconcentration Map - North Olive Stratum
(Soil Vapor Data Collected July 29, 2004)
Hartford Community Center, Hartford, Illinois

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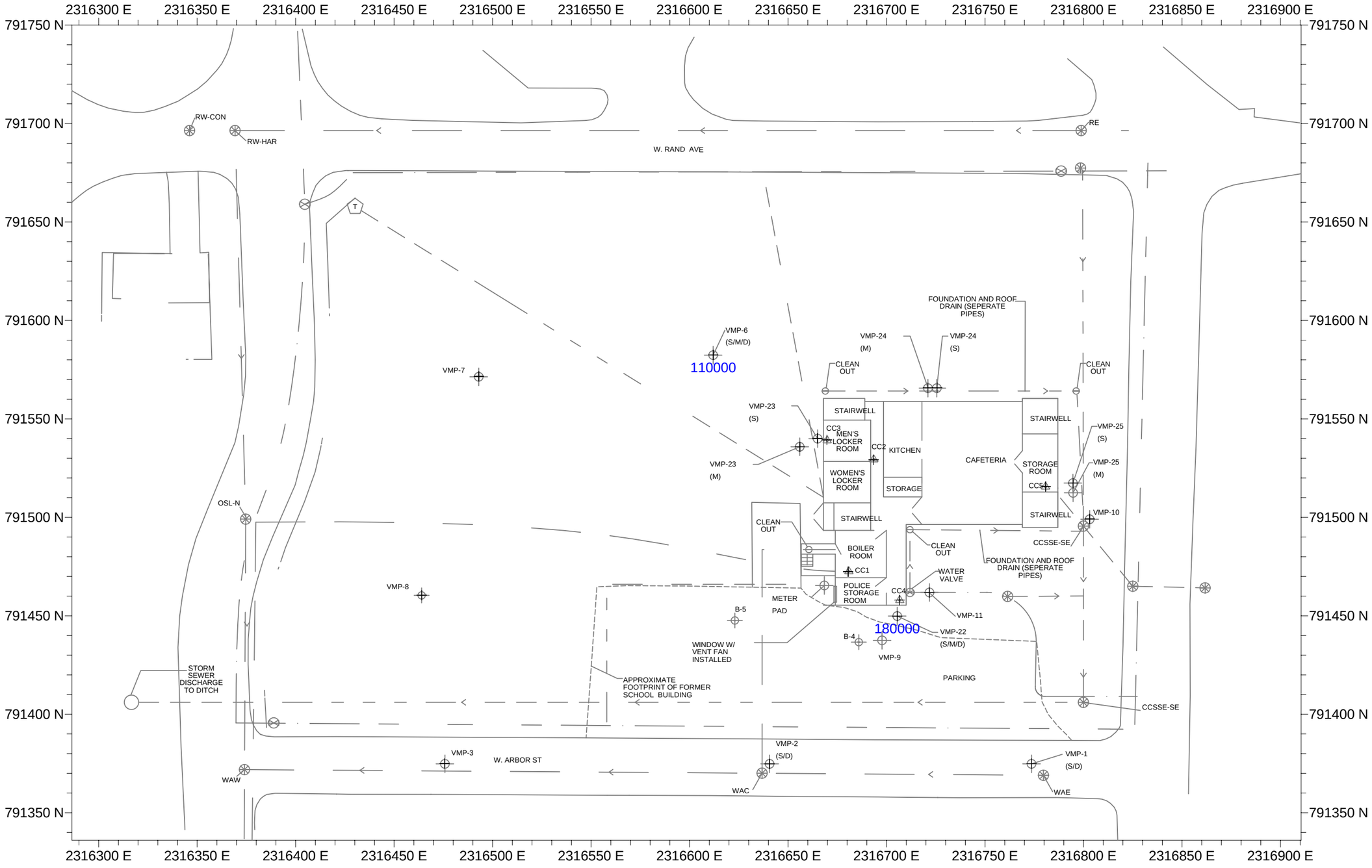
Figure 2-9b



Label	Benzene (ppbV)
VMP-1	----
VMP-2	----
VMP-3	----
VMP-6	110000
VMP-7	----
VMP-8	----
VMP-10	----
VMP-11	----
VMP-22	180000
VMP-23S	----
VMP-23M	----
VMP-24S	----
VMP-24M	----
VMP-25	----

LEGEND

- VMP Port Location and Benzene Concentration (ppbV) (10)
- Subslab VMP Location and Benzene Concentration (ppbV) (51)
- Sewer Manhole Location

N

SCALE: 1 in. = 50 ft

0 ft 50 ft 100 ft

DRAWN BY: CB	DATE: 09/22/04	PROJECT NO.:
APPROVED BY: DS	REVISED: ----	01005-093-400

Benzene Isoconcentration Map - Main Sand
(Soil Vapor Data Collected July 29, 2004)
Hartford Community Center, Hartford, Illinois

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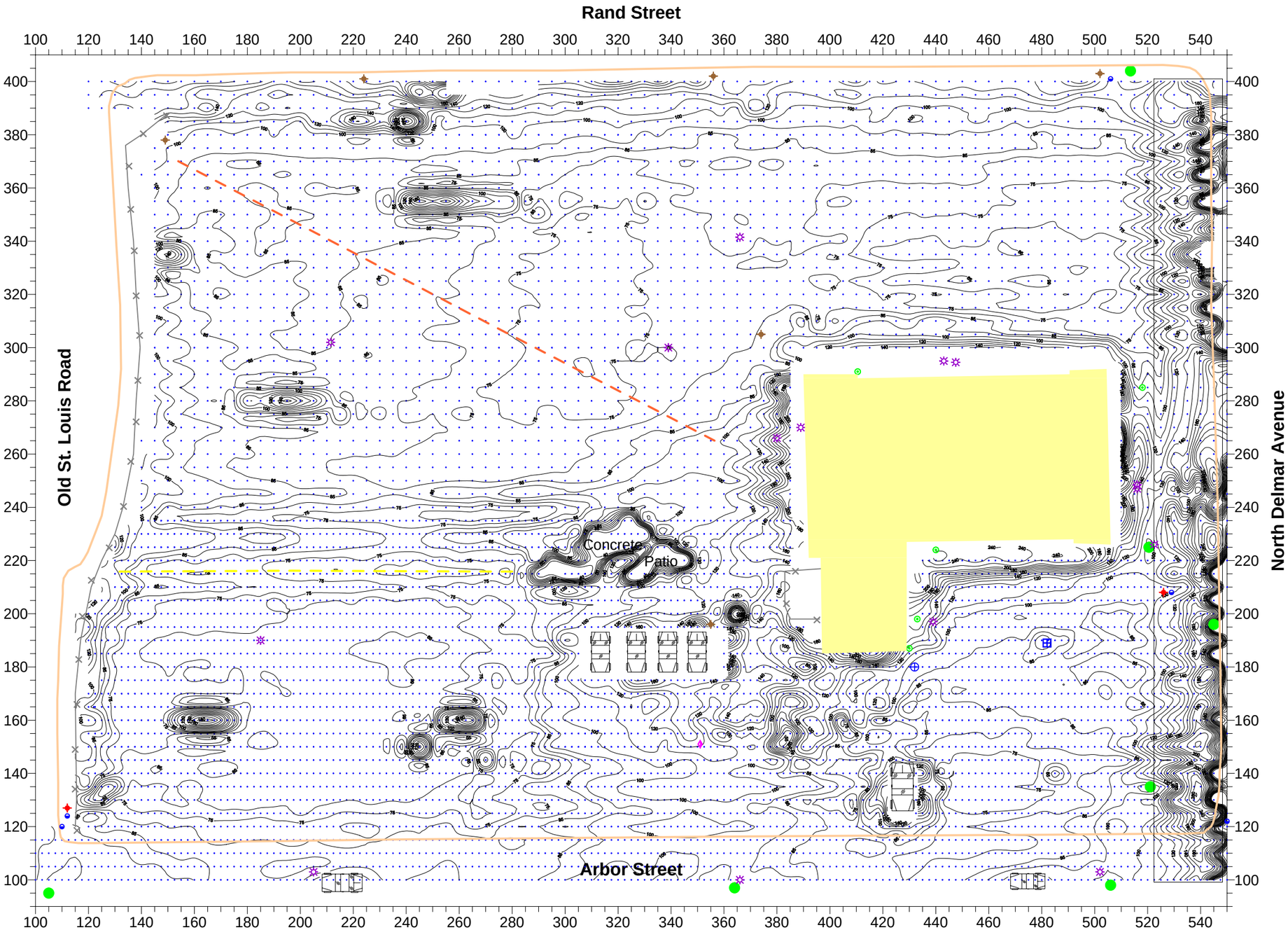
Figure 2-9c



Legend

- Water Valve
- Vapor Monitoring Point
- Sewer Manhole
- Fire Hydrants
- Wooden Pole
- PVC Cleanout
- Monitoring Well
- Storm Grate
- Razed Bollard
- EM Data Point
- Fence
- Curbline
- Hartford Community Center
- Automobile
- Natural Gas Line
- Telecommunications Line

Values in millisiemens per meter (mS/m)

DRAFT - WORK IN PROGRESS

N

0 ft 40 ft 80 ft 120 ft
SCALE IN FEET
SCALE: 1" = 40'

DRAWN BY: CB	DATE: 08/09/04	PROJECT
APPROVED BY: JP	REVISED: 08/13/04	01005-093-400

EM-31 Ground Conductivity
Contour Map
Hartford Community Center
Hartford, Illinois
July 2004

ENSR® INTERNATIONAL
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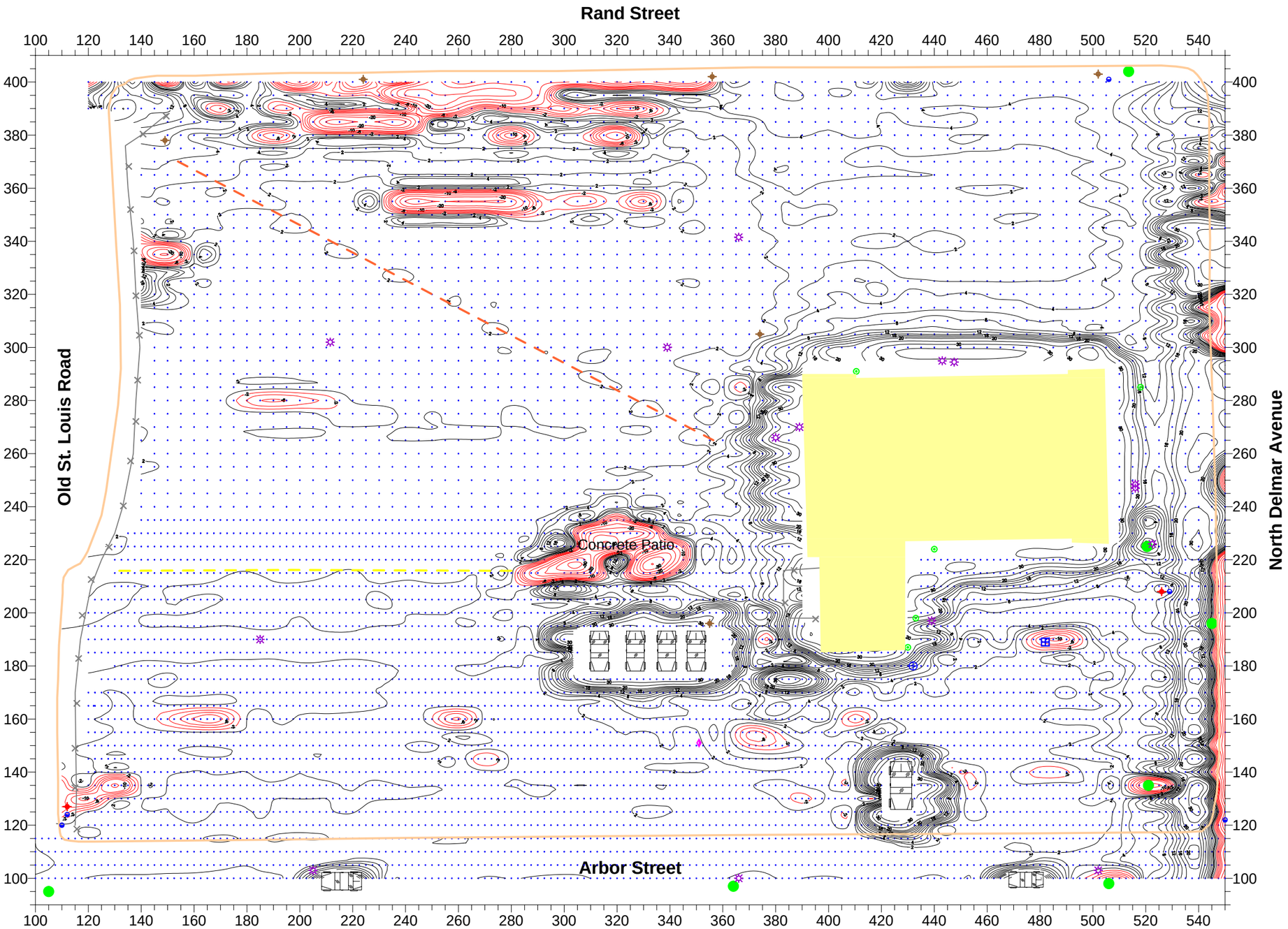
Figure 2-10



Legend

- Water Valve
- Vapor Monitoring Point
- Sewer Manhole
- Fire Hydrants
- Wooden Pole
- PVC Cleanout
- Monitoring Well
- Storm Grate
- Razed Bollard
- EM Data Point
- Fence
- Curbline
- Hartford Community Center
- Automobile
- Natural Gas Line
- Telecommunications Line

Values in parts per thousand (ppt)

DRAFT - WORK IN PROGRESS

N

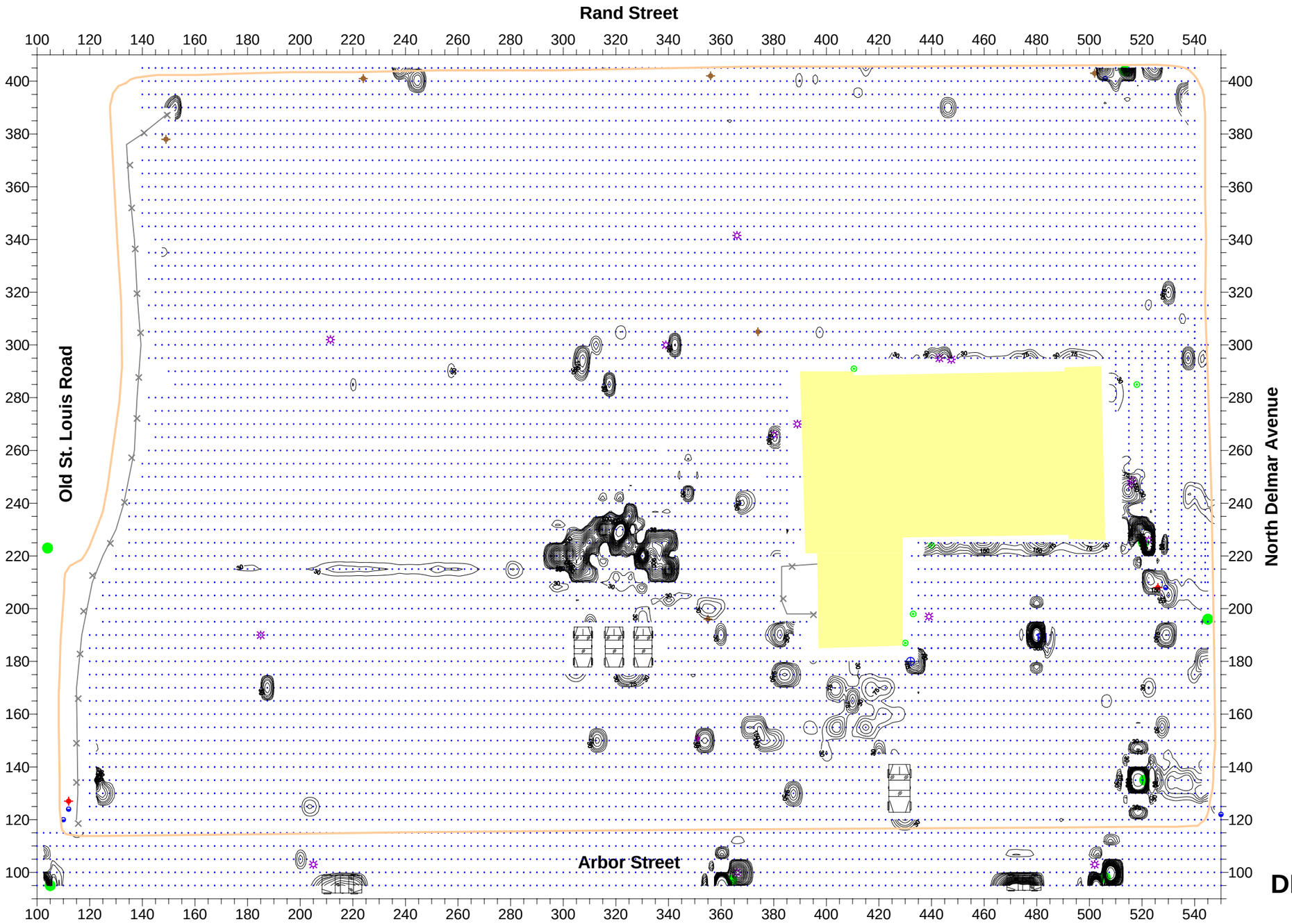
0 ft 40 ft 80 ft 120 ft
SCALE IN FEET
SCALE: 1" = 40'

DRAWN BY: CB	DATE: 08/09/04	PROJECT
APPROVED BY: JP	REVISED: 08/13/04	01005-093-400

EM-31 Magnetic Susceptibility
Contour Map
Hartford Community Center
Hartford, Illinois
July 2004

ENSR INTERNATIONAL
CONSULTING • ENGINEERING • REMEDIATION

Figure 2-11



Legend

- Water Valve
- Vapor Monitoring Point
- Sewer Manhole
- Fire Hydrants
- Wooden Pole
- PVC Cleanout
- Monitoring Well
- Storm Grate
- Razed Bollard
- EM Data Point
- Fence
- Curbline
- Hartford Community Center
- Automobile

Values in millivolts (mV)

DRAFT - WORK IN PROGRESS

N

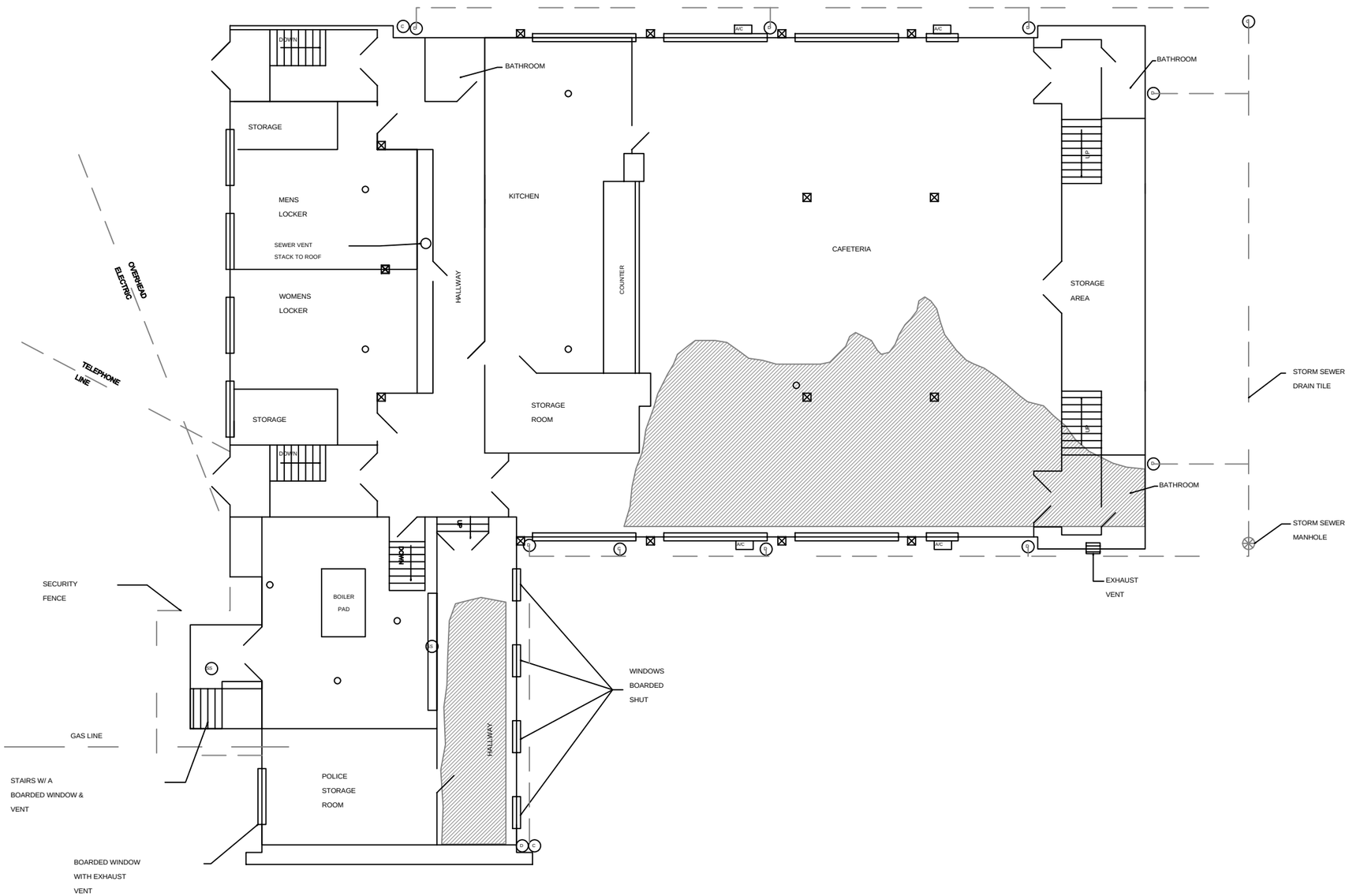
0 ft 40 ft 80 ft 120 ft
SCALE IN FEET
SCALE: 1" = 40'

DRAWN BY: CB	DATE: 08/09/04	PROJECT
APPROVED BY: JP	REVISED: 08/23/04	01005-093-400

EM-61 Normalized
Response Contour Map
Hartford Community Center
Hartford, Illinois
July 2004

ENSR INTERNATIONAL
CONSULTING • ENGINEERING • REMEDIATION

Figure 2-12



LEGEND:

- COLUMNS
- A/C — AIR CONDITIONER
- C — CLEANOUT
- D — DOWNSPOUT
- SS — SANITARY SEWER CLEANOUT
- FLOOR DRAIN
- WINDOW
- INTERPRETED COARSER-GRAINED SUBGRADE MATERIAL

DRAFT - WORK IN PROGRESS

N

0' 15' 30'

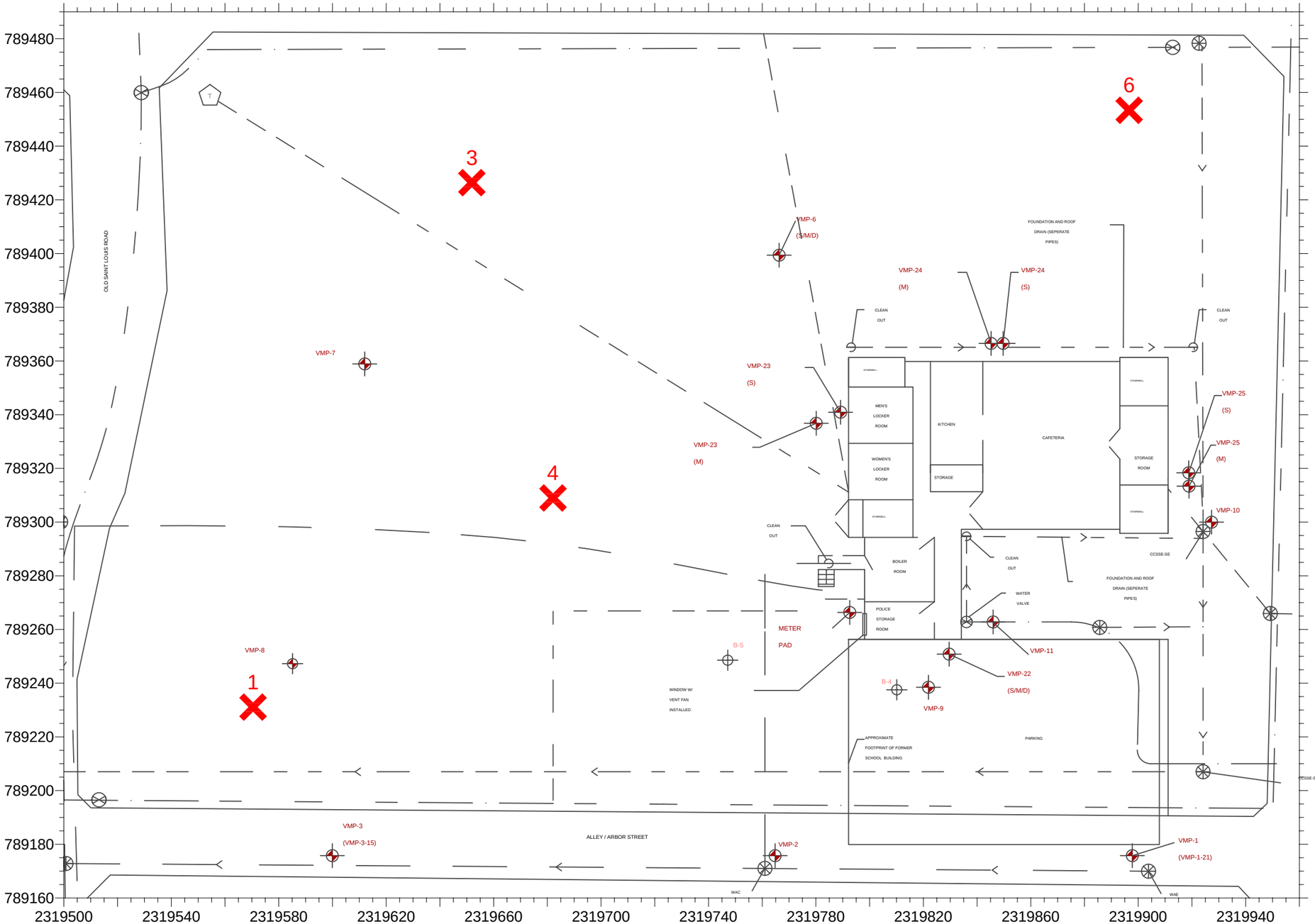
SCALE IN FEET
SCALE: 1" = 15'

DRAWN BY: JG	DATE: 08/09/04	PROJECT
APPROVED BY: JP	REVISED: 08/09/04	01005-093-400

Hartford Community Center
Sub-Slab Investigation
Hartford Working Group
Hartford, Illinois

ENSR® INTERNATIONAL
CONSULTING • ENGINEERING • REMEDIATION

Figure 2-13



Legend

✕ Excavated Test Pit Location

DRAFT - WORK IN PROGRESS

N

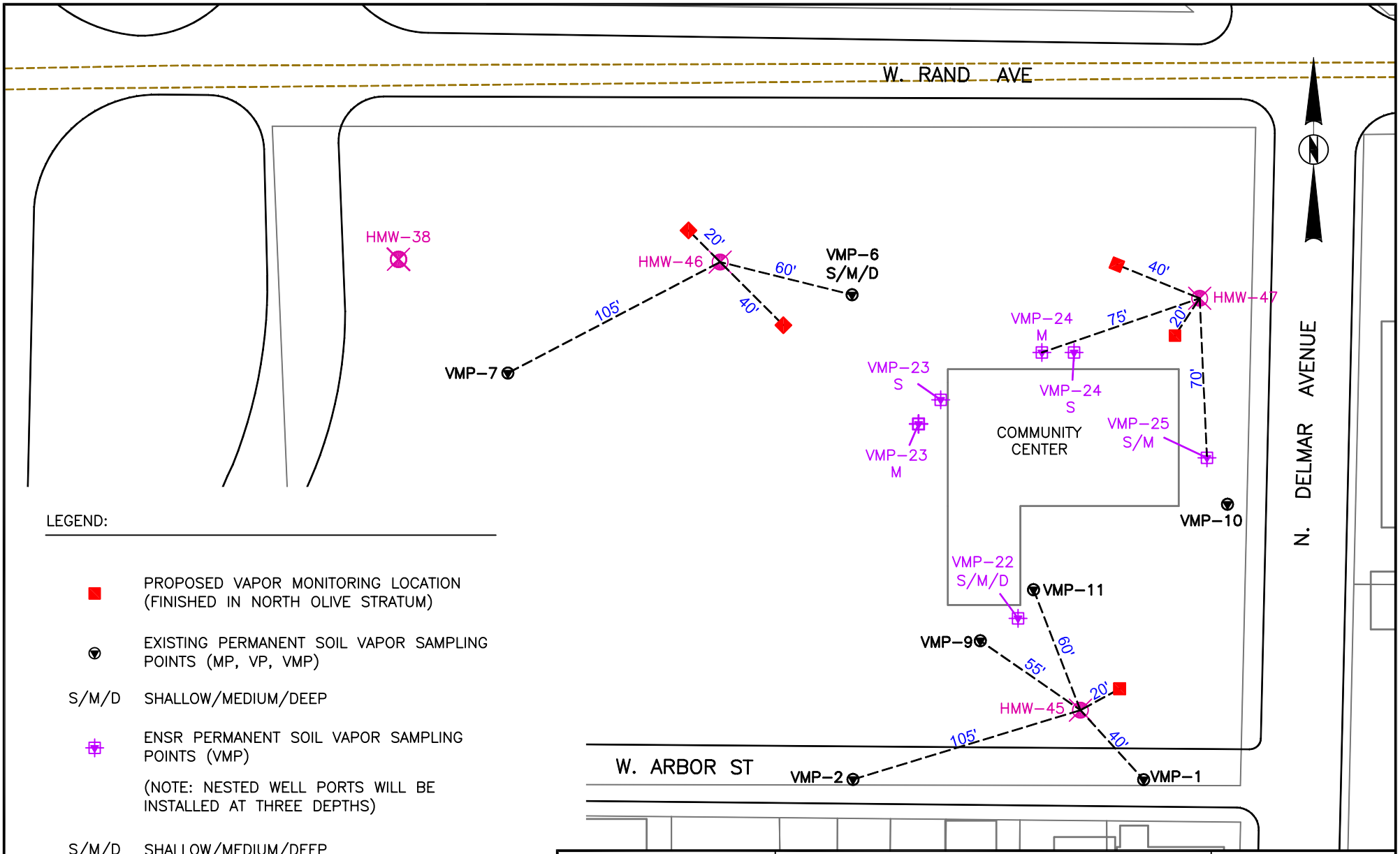
0 ft 40 ft 80 ft 120 ft
SCALE IN FEET
SCALE: 1" = 40'

DRAWN BY: CB	DATE: 08/09/04	PROJECT
APPROVED BY: JP	REVISED: 08/13/04	01005-093-400

Excavated Test Pit Location Map
Hartford Community Center
Hartford, Illinois
August 2004

ENSR INTERNATIONAL
CONSULTING • ENGINEERING • REMEDIATION

Figure 2-14



LEGEND:

PROPOSED VAPOR MONITORING LOCATION (FINISHED IN NORTH OLIVE STRATUM)

EXISTING PERMANENT SOIL VAPOR SAMPLING POINTS (MP, VP, VMP)

S/M/D SHALLOW/MEDIUM/DEEP

ENSR PERMANENT SOIL VAPOR SAMPLING POINTS (VMP)

(NOTE: NESTED WELL PORTS WILL BE INSTALLED AT THREE DEPTHS)

S/M/D SHALLOW/MEDIUM/DEEP

CLAYTON MONITORING WELL LOCATION

SCALE IN FEET

0 30 60 120

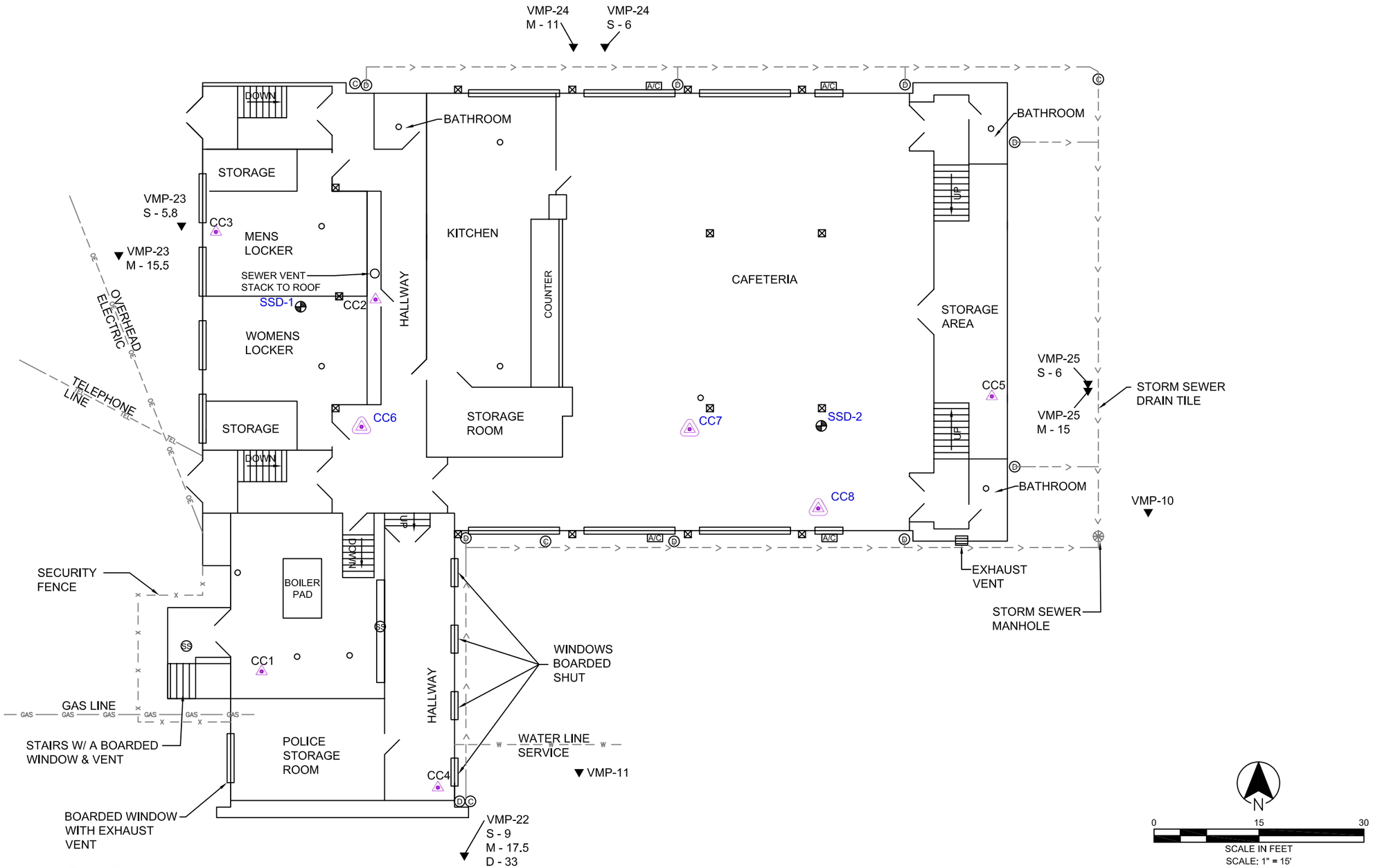
CHK BY	JLP
DWN BY	BCP/OS
DATE	9-16-04
SCALE	AS SHOWN
CAD NO.	0309513002m
PRJ NO.	15-03095.13

PROPOSED SVE PILOT TEST LOCATION

HARTFORD COMMUNITY CENTER
THE HARTFORD WORKING GROUP
HARTFORD, ILLINOIS

Clayton GROUP SERVICES

FIGURE 3-1



1005-093_SENIOR CENTER_VAPOR MONITORING POINT LOCATIONS_04_07.dwg

LEGEND:

VMP-22 ▼	PERMANENT SOIL VAPOR SAMPLING POINTS WITH DEPTH IN FEET
S - 9	SHALLOW
M - 12.5	MEDIUM
D - 33	DEEP
CC1	SUB-SLAB VAPOR MONITORING POINTS
	PROPOSED SUB-SLAB VAPOR MONITORING POINTS
	COLUMNS
A/C	AIR CONDITIONER
C	CLEAN OUT
D	DOWN SPOUT
SS	SANITARY SEWER CLEAN OUT
	FLOOR DRAIN
	WINDOW
	SUB-SLAB PILOT TEST VAPOR EXTRACTION POINT

BASEMENT LAYOUT AND SUB-SLAB DEPRESSURIZATION SYSTEM PILOT TESTING LOCATIONS

HARTFORD COMMUNITY CENTER
715 NORTH DELMAR
HARTFORD, IL
HARTFORD WORKING GROUP

September 2004

File No.: 01005-093

FIGURE 3-2

ENSR INTERNATIONAL

CONSULTING • ENGINEERING • REMEDIATION

ID	Task Name	Duration	Start	Finish
1	**Investigation Activities**	**259 days**	**Tue 3/16/04**	**Mon 11/29/04**
2	**Vapor Monitoring Point (VMP) Installation**	**130 days**	**Tue 3/16/04**	**Fri 7/23/04**
3	March 2004	8 days	Tue 3/16/04	Tue 3/23/04
4	July 2004	18 days	Tue 7/6/04	Fri 7/23/04
5	**VMP Samping**	**146 days**	**Wed 3/17/04**	**Tue 8/10/04**
6	March 17	0 days	Wed 3/17/04	Wed 3/17/04
7	April 8	0 days	Thu 4/8/04	Thu 4/8/04
8	July 29	0 days	Thu 7/29/04	Thu 7/29/04
9	August 10	0 days	Tue 8/10/04	Tue 8/10/04
10	**Indoor Air Sampling Dates**	**123 days**	**Fri 7/30/04**	**Mon 11/29/04**
11	July 30	0 days	Fri 7/30/04	Fri 7/30/04
12	August 18	0 days	Wed 8/18/04	Wed 8/18/04
13	August 25	0 days	Wed 8/25/04	Wed 8/25/04
14	September 2	0 days	Thu 9/2/04	Thu 9/2/04
15	September 8	0 days	Wed 9/8/04	Wed 9/8/04
16	September 15	0 days	Wed 9/15/04	Wed 9/15/04
17	Weekly Indoor Air Sampling	76 days	Wed 9/15/04	Mon 11/29/04
18	Geophysics Investigation	5 days	Mon 7/26/04	Fri 7/30/04
19	MW Installation (Clayton)	3 days	Mon 8/2/04	Wed 8/4/04
20	Test Pit Completion	4 days	Tue 8/10/04	Fri 8/13/04
21	**Mitigation Activities**	**22 days**	**Fri 8/6/04**	**Fri 8/27/04**
22	Seal Foundation Cracks	4 days	Fri 8/6/04	Mon 8/9/04
23	Install Drain Check Valves	2 days	Thu 8/19/04	Fri 8/20/04
24	Reverse Exhaust Fan (Evidence Room)	1 day	Fri 8/27/04	Fri 8/27/04
25	**Design Plan**	**71 days**	**Mon 9/20/04**	**Mon 11/29/04**
26	Submit Design Plan	0 days	Mon 9/20/04	Mon 9/20/04
27	*Review/Approval by Agencies*	30 days	Mon 9/20/04	Tue 10/19/04
28	Conduct Air Filtration Pilot Test	20 days	Mon 9/20/04	Sat 10/9/04
29	Conduct SVE/Subslab Pilot Test	20 days	Wed 10/20/04	Mon 11/8/04
30	Evaluate Results/Prepare Design Report	21 days	Tue 11/9/04	Mon 11/29/04
31	Meet with Village	0 days	Mon 11/29/04	Mon 11/29/04
32	Submit Design Report	0 days	Mon 11/29/04	Mon 11/29/04
33	**Install Systems**	**185 days**	**Tue 11/30/04**	**Thu 6/2/05**
34	*Review/Approval by Agencies*	30 days	Tue 11/30/04	Wed 12/29/04
35	Installation	80 days	Wed 12/29/04	Fri 3/18/05
36	Start-up	15 days	Fri 3/18/05	Fri 4/1/05
37	Monitoring	60 days	Mon 4/4/05	Thu 6/2/05

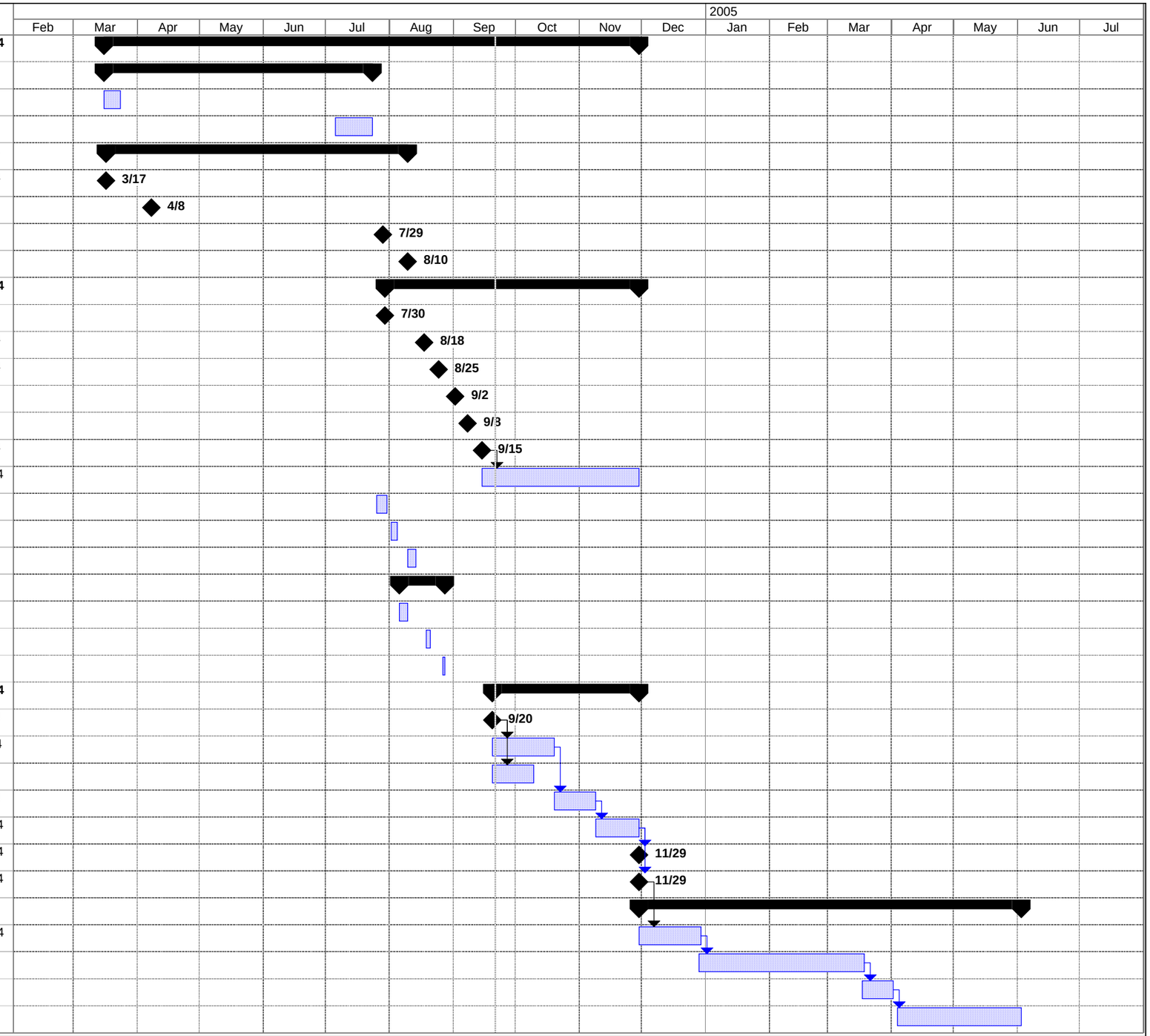


FIGURE 3-3 - Schedule

Task | Progress | Summary | External Tasks | Deadline
Split | Milestone | Project Summary | External Milestone

Tue 9/21/04 10:24 AM

TABLES

TABLE 2-1

Summary of Analytical Data Notes, Qualifiers and Methods
Hartford Community Center

Notes

- Values are shaded where detections are above reporting limit for compound
-- - Indicates compound not analyzed
ppbv - Parts per billion by volume
ug/m3 - Micrograms per cubic meter
% - Percentage

Definition of Data Qualifying Flags

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed)
J - Estimated value
E - Exceeds instrument calibration range
S - Saturated peak
Q - Exceeds quality control limits
U or u - Compound analyzed for but not detected above the reporting limit
N - The identification is based on presumptive evidence
M - Reported value may be biased due to apparent matrix interferences

Analytical Methods

TO15 - Modified EPA Method TO-15 using GC/MS
M@82 - Air Toxics Ltd Method @82 using GC/FID
ASTM D-1946 - Modified ASTM Method D-1946 using GC/FID
ASTM -D-5504 - ASTM Method D-5504 using GC/SCD
TO14A - Modified EPA Method TO-14A using GC/FID

TABLE 2-10

Summary of Soil Vapor Analytical Results for Benzene, Isopentane and Methane
Hartford Community Center

Monitoring Point	Date	Benzene (B) (ppbv)	Isopentane (I) (ppbv)	Methane (M) (percent)	Ratio I/B
Meter Pad	8-Mar-04	8.6 u	3,900,000	15	--
VMP-1D	8-Apr-04	4,000	15,000,000	51	3,750
	29-Jul-04	8,200	14,000,000	54	1,707
	10-Aug-04	8,900	14,000,000	60	1,573
VMP-2S	8-Apr-04	8	280,000	1.1	37,333
	29-Jul-04	200	1,100	0.15	6
	10-Aug-04	0.88 u	340	0.20	--
VMP-2D	17-Mar-04	20 u	13,000,000	36	--
	8-Apr-04	1.2 u	18,000,000	40	--
	29-Jul-04	360 u	13,000,000	44	--
	10-Aug-04	340 u	18,000,000	43	--
VMP-3	17-Mar-04	5 u	1,900,000	2.8	--
	8-Apr-04	2.6 u	14,000,000	15	--
	29-Jul-04	510	1,800,000	11	3,529
	10-Aug-04	110 u	1,900,000	9.6	--
VMP-6S	8-Apr-04	120,000	3,200,000	1.4	27
	29-Jul-04	230,000	15,000,000	51	65
	10-Aug-04	300,000	18,000,000	47	60
VMP-6M	8-Apr-04	38,000	1,300,000	0.83	34
	29-Jul-04	240,000 u	20,000,000	61	--
	10-Aug-04	140,000	11,000,000	35	79
VMP-6D	8-Apr-04	82,000	1,800,000	0.84	22
(dup.)	8-Apr-04	83,000	2,100,000	0.84	25
	29-Jul-04	110,000	4,700,000	18	43
	10-Aug-04	300,000	16,000,000	54	53
VMP-7	8-Apr-04	27,000	31,000,000	52	1,148
	29-Jul-04	37,000	25,000,000	58	676
	10-Aug-04	40,000	30,000,000	59	750
VMP-8	8-Apr-04	0.81	2,600	0.01	3,210
	29-Jul-04	4.50	1,200	0.0086	267
	10-Aug-04	200	4,500	0.015	23
VMP-9	8-Apr-04	9,500	11,000,000	47	1,158
	29-Jul-04	--	--	--	--
	10-Aug-04	--	--	--	--
VMP-10	8-Apr-04	1.5	140	0.00041	93
	29-Jul-04	6.0	33	0.66	6
	10-Aug-04	23	1,800	--	78
VMP-11	8-Apr-04	0.67 u	1,200	0.013	--
	29-Jul-04	0.8 u	6.4 u	0.0013	--
	10-Aug-04	3.2	12	--	4

TABLE 2-10

Summary of Soil Vapor Analytical Results for Benzene, Isopentane and Methane
Hartford Community Center

Monitoring Point	Date	Benzene (B) (ppbv)	Isopentane (I) (ppbv)	Methane (M) (percent)	Ratio I/B
VMP-22S	29-Jul-04	890	8,000,000	44	8,989
	10-Aug-04	1,300	8,500,000	44	6,538
VMP-22M	29-Jul-04	1,100	6,800,000	42	6,182
	10-Aug-04	1,200	7,000,000	38	5,833
VMP-22D	29-Jul-04	180,000	14,000,000	74	78
	10-Aug-04	180,000	14,000,000	64	78
(dup.)	10-Aug-04	260,000	14,000,000	65	54
VMP-23S	29-Jul-04	620	2,800	0.0007	5
	10-Aug-04	1.6 u	410	--	--
VMP-23M	29-Jul-04	320,000	14,000,000	68	44
	10-Aug-04	270,000	16,000,000	58	59
VMP-24S	29-Jul-04	1,900	2,000,000	4.6	1,053
	10-Aug-04	440	28,000	--	64
VMP-24M	29-Jul-04	66,000	19,000,000	67	288
	10-Aug-04	55,000	110,000,000	59	2,000
VMP-25S	29-Jul-04	1.0	12	0.00036	12
	10-Aug-04	3.4 u	1,000	--	--
VMP-25M	29-Jul-04	320	140,000	9.1	438
	10-Aug-04	430	220,000	14	512
CCVMP-1	30-Jul-04	84,000 u	13,000,000	51	--
CCVMP-2	30-Jul-04	170,000	19,000,000	70	112
CCVMP-3	30-Jul-04	230,000	17,000,000	71	74
CCVMP-4	30-Jul-04	54,000 u	11,000,000	52	--
CCVMP-5	30-Jul-04	260,000	13,000,000	66	50

Notes:

u - Indicates compound not detected at reporting limit

-- - Indicates not analyzed or not applicable

TABLE 2-11A

Summary of Soil Sample Analytical Results
Hartford Community Center

		Lab Sample ID	04070315-001	4070644-001	4070414-001	4070521-001	04070521-002	04070521-003	04070521-004
		Field Sample ID / Depth (ft)	VMP-22 (26')	VMP-21 (29-30)	PMP-18 (13.5-15)	VMP-24M (7.5-9)	VMP-24M (13.5-14.5)	VMP-24M (18.5-21)	VMP-25M (16-18)
		Sample Date	13-Jul-04	23-Jul-04	15-Jul-04	20-Jul-04	20-Jul-04	20-Jul-04	20-Jul-04
		Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Parameter	**Method**	**Units**							
Geotechnical Analyses									
Organic Matter	ASTM D2974	percent	5.10	--	--	--	--	--	--
Percent Moisture	ASTM D2974	percent	26.7	20.2	31.5	29.7	32.7	42.1	36.5
Dry Weight	ASTM D 2216	lbs/ft3	--	--	87.0	84.3	81.0	78.2	84.1
Total Solids	Stand.-2540 G	percent	73.3	79.8	--	--	--	--	--
Total Porosity	Calculated	percent	--	--	48.4	50.0	52.0	54.6	50.5
Water Filled Porosity	Calculated	percent	--	--	43.9	40.2	42.4	52.7	49.2
Air Filled Porosity	Calculated	percent	--	--	4.4	9.8	9.6	1.9	1.3
Specific Gravity	ASTM D 854	unitless	--	--	2.70	2.70	2.70	2.76	2.72
Volatile Organic Compounds									
MTBE	5035, 8260 B	ug/Kg-dry	2.6	184 U	--	--	--	--	--
Benzene	5035, 8260 B	ug/Kg-dry	2.5	408	--	--	--	--	--
Toluene	5035, 8260 B	ug/Kg-dry	5.8 J	6,980	--	--	--	--	--
Ethylbenzene	5035, 8260 B	ug/Kg-dry	5.8 U	10,300	--	--	--	--	--
Total Xylenes	5035, 8260 B	ug/Kg-dry	5.8 J	43,900	--	--	--	--	--

Notes:

-- - Indicates parameter not analyzed.

U - Indicates compound not detected at reporting limit.

J - Indicates compound detected below reporting limit.

TABLE 11B
Summary of Soil Analytical Results - BTEX/MTBE

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

SAMPLE			LABORATORY ANALYSES					COMMENTS
Boring No.	Date Collected	Sample Interval ft bgs	Benzene µg/Kg	Toluene µg/Kg	Ethyl-benzene µg/Kg	Total Xylenes µg/Kg	MTBE µg/Kg	
HMW-38	8/3/2004	6.0-8.0	184	< 151	< 151	53	< 60.2	Clay above N.Olive
HMW-38	8/3/2004	12.0-14.0	228	< 153	< 153	42	< 61.1	N.Olive
HMW-38	8/3/2004	26.0-28.0	11,900	420	16,800	47,590	< 537	Clay above Main below N.Olive/ Rand Remnant
HMW-45	8/4/2004	10.0-12.0	135	47	< 162	53	< 64.9	Clay above N.Olive
HMW-45	8/4/2004	12.0-14.0	31.1	4.8	2.5	9.2	< 2.4	N.Olive
HMW-45	8/4/2004	22.0-24.0	1,370	42	< 210	58	< 84.0	Clay above Rand below N.Olive
HMW-45	8/4/2004	28.0-30.0	2,260	57	72	110	< 93.7	Clay above Main below Rand
HMW-46	8/2/2004	8.0-10.0	2,160	< 156	346	442	< 62.3	Clay above N.Olive
HMW-46	8/2/2004	12.0-14.0	3,220	55	2,090	1,750	< 74.0	N.Olive
HMW-46	8/2/2004	22.0-24.0	7,760	300	2,900	1,320	< 479	Clay above Main below N.Olive
HMW-47	8/2/2004	10.0-12.0	2.1	1.0	1.1	3.9	< 2.0	Clay above N.Olive
HMW-47	8/2/2004	14.0-16.0	2.1	2.6	< 9.1	6.9	< 3.7	N.Olive
HMW-47	8/2/2004	24.0-26.0	415	198	150	353	< 74.3	Clay above EPA below N.Olive
Dup01	8/2/2004	24.0-26.0	< 35.3	< 177	< 177	< 177	< 70.7	
HMW-47	8/2/2004	42.0-44.0	2,790	92	373	725	< 65.6	Clay above Main below EPA

TABLE 11C
GEOTECHNICAL TEST RESULT SUMMARY

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

Sample			Sample Analysis						
Boring No.	Date Collected	Sample Interval (Feet)	Natural Moisture Content (%)	Porosity (%)	Gravel (%)	Percent Sand (%)	Composition Percent Silt (%)	Percent Clay (%)	Description
HMW-38	8/17/2004	6.0-8.0	24.9	--	0	6	51	43	Gray-Brown Fat CLAY, Trace SAND, CH
HMW-38	8/17/2004	14.0-16.0	29.1	--	0	5	64	31	Gray-Brown Lean CLAY, Trace SAND, CL
HMW-38	8/17/2004	30.0-32.0	37.7	--	0	4	27	70	Gray Fat CLAY, Trace SAND,CH
HMW-45	8/20/2004	8.0-10.0	28.2	--	0	4	61	34	Gray-Brown Lean CLAY,Tace SAND, CL
HMW-45	8/20/2004	14.0-15.0	24.2	49.4	0	7	83	10	Gray-Brown Lean SILT,With SAND, ML
HMW-45	8/20/2004	21.0-23.0	28.0	--	0	19	55	26	Gray Lean SILT,With SAND, ML
HMW-45	8/20/2004	24.0-26.0	35.5	--	0	3	23	73	Gray-Brown Fat CLAY, Trace SAND, CH
HMW-45	8/20/2004	28.0-30.0	37.6	--	0	26	23	51	Gray-Brown Fat CLAY, Trace SAND, CL

TABLE 11C
GEOTECHNICAL TEST RESULT SUMMARY

The Hartford Working Group / Hartford, Illinois
1190505040 -- Madison County -- ILR000128249

Sample			Sample Analysis						
Boring No.	Date Collected	Sample Interval (Feet)	Natural Moisture Content (%)	Porosity (%)	Gravel (%)	Percent Sand (%)	Composition Percent Silt (%)	Percent Clay (%)	Description
HMW-46	8/18/2004	8.0-10.0	26.3	--	0	4	67	29	Gray-Brown Lean CLAY, Trace SAND, CL
HMW-46	8/19/2004	12.5-13.0	24.3	48.3	0	11	72	17	Gray Lean SILT, Trace SAND, ML
HMW-46	8/18/2004	14.0-16.0	33.1	--	0	14	66	20	Gray-Brown Lean SILT, Trace SAND, ML
HMW-46	8/18/2004	22.0-24.0	35.2	--	0	3	46	51	Gray-Brown Fat CLAY, Trace SAND, CH
HMW-46	8/18/2004	28.0-30.0	38.2	--	0	5	25	70	Gray Fat CLAY, Trace SAND, CH
HMW-47	8/19/2004	10.0-12.0	31.1	--	0	3	39	58	Gray-Brown Fat CLAY, Trace SAND, CH
HMW-47	8/19/2004	17.0-17.5	36.8	50	0	2	77	21	Gray Lean SILT, Trace SAND, ML
HMW-47	8/19/2004	22.0-24.0	35.2	--	0	1	31	69	Gray Fat CLAY, Trace SAND, CH

Notes:
-- = Not Analyzed

TABLE 2-2
Summary of Sewer Monitoring Results
Hartford Community Center

28-May-05	Time	PID	FID	LEL	PID/FID *	PID/FID (AA)	Description
Sewer A	13:00	122	225	0%	--	--	
Sewer B	13:00	46.42	1700	0%	--	--	
Sewer C	13:00	35	70	0%	--	--	
Sewer D	13:00	470	512	0%	--	--	
Sewer E	13:00	135	1.01	46%	--	--	
2-Jun-04							
Sewer A	11:45	0.32	2.25	0%	--	--	
Sewer B	11:45	0.8	17.86	0%	--	--	
Sewer C	11:45	0.2	0.86	0%	--	--	
Sewer D	11:45	2.8	24.6	0%	--	--	
Sewer E	--	--	--	--	--	--	
3-Jun-04							
Sewer A	12:15	14.4	900	0%	--	--	
Sewer B	12:15	2.22	177	0%	--	--	
Sewer C	12:15	0.21	0.76	0%	--	--	
Sewer D	12:15	2.32	27.84	0%	--	--	
Sewer E	--	--	--	--	--	--	
4-Jun-04							
Sewer A	11:10	3.6	150	0%	--	--	
Sewer B	11:10	11.35	705	0%	--	--	
Sewer C	11:10	7.55	302	0%	--	--	
Sewer D	11:10	1.96	98	0%	--	--	
Sewer E	11:10	2.48	56.96	0%	--	--	
5-Jun-04							
Sewer A	12:15	--	--	3%	--	--	
Sewer B	12:13	--	--	5%	--	--	
Sewer C	12:10	--	--	2%	--	--	
Sewer D	12:07	--	--	2%	--	--	
Sewer E	--	--	--	--	--	--	
6-Jun-04							
Sewer A	12:06	--	--	0%	--	--	
Sewer B	12:03	--	--	3%	--	--	
Sewer C	12:00	--	--	1%	--	--	
Sewer D	11:58	--	--	3%	--	--	
Sewer E	--	--	--	--	--	--	
7-Jun-04							
Sewer A	13:20	45.8	840	0%	27.2/294	--	
Sewer B	13:20	55.2	111	0%	120/50.5	--	
Sewer C	13:20	101	3.5	0%	109/0.8	--	
Sewer D	13:20	770	1540	1%	440/750	--	
Sewer E	13:20	1.1	5.22	0%	42.1%/3.2	--	
8-Jun-04							
Sewer A	12:40	8.9	290	0%	3.9/130	--	
Sewer B	12:40	7.7	396	0%	4.2/244	--	
Sewer C	12:40	12.3	562	0%	3.74/49.3	--	
Sewer D	12:40	9.78	787	0%	3.1/394	--	
Sewer E	12:40	6.94	24.58	0%	2.35/18.7	--	
9-Jun-04							
Sewer A	13:27	7.6	110	0%	--/37.3	4.15/5.56	
Sewer B	13:27	8.86	98.42	0%	--/19.60	4.18/5.44	
Sewer C	13:27	12.28	144	0%	--/104	4.88/5.48	
Sewer D	13:27	8.65	11.23	0%	--/4.46	5.16/5.62	
Sewer E	13:27	9.82	350	0%	--/120	4.32/5.51	
10-Jun-04							
Sewer A	13:55	15.78	923	5%	--/721	3.38/2.14	BV on Sewer D
	15:39	--	--	5%	--	--	DV on Sewer D
	15:51	--	--	4%	--	--	DV on Sewer D; 16:00 stop venting due to lightning
	16:25	--	--	3%	--	--	Start venting at 16:10; no more lighting; DV on Sewer D
	18:04	--	--	6%	--	--	DV on Sewer D
	18:30	13.22	1387	7%	--/971	0.59/2.71	AV on Sewer D
Sewer B	13:55	15.54	486	3%	--/321	5.12/2.31	BV on Sewer D
	15:39	--	--	3%	--	--	DV on Sewer D
	15:51	--	--	3%	--	--	DV on Sewer D; 16:00 stop venting due to lightning
	16:25	--	--	0%	--	--	Start venting at 16:10; no more lighting; DV on Sewer D
	18:04	--	--	8%	--	--	DV on Sewer D
	18:30	21.79	1812	8%	--/1479	0.61/3.92	AV on Sewer D
Sewer C	13:55	6.51	35.37	0%	--/27.41	3.53/3.55	BV on Sewer D (West Arbor Central (WAC))
	15:39	--	--	7%	--	--	DVon Sewer D
	15:51	--	--	6%	--	--	DV on Sewer D; 16:00 stop venting due to lightning
	16:25	--	--	1%	--	--	Start venting at 16:10; no more lighting; DV on Sewer D
	18:04	--	--	0%	--		DV on Sewer D
	18:30	7.29	1072	6%	--/767	0.49/2.02	AV on Sewer D

TABLE 2-2
Summary of Sewer Monitoring Results
Hartford Community Center

	Time	PID	FID	LEL	PID/FID *	PID/FID (AA)	Description
Sewer D	13:55	53.75	1.27%	38%	--/917	3.35/2.14	BV on Sewer D (West Arbor Central (WAC))
	15:39	--	--	15%	--	--	DV on Sewer D
	15:51	--	--	13%	--	--	DV on Sewer D; 16:00 stop venting due to lightning
	16:25	--	--	14%	--	--	Start venting at 16:10; no more lighting; DV on Sewer D
	16:40	--	--	13%	--	--	DV on Sewer D
	17:00	--	--	12%	--	--	DV on Sewer D
	17:35	--	--	12%	--	--	DV on Sewer D
	17:55	--	--	12%	--	--	DV on Sewer D
	18:04	--	--	12%	--	--	DV on Sewer D
	18:25	--	--	12%	--	--	AV on Sewer D
	18:30	13.45	1195	10%	--/824	0.44/2.51	AV on Sewer D
Sewer E	13:55	51.26	612	3%	--/418	4.26/1.22	BV on Sewer D (West Arbor Central (WAC))
	15:39			4%	--		DV on Sewer D
	15:51			4%	--		DVon Sewer D; 16:00 stop venting due to lightning
	16:25			5%	--		Start venting at 16:10; no more lighting; DV on Sewer D
	18:04			5%	--		DV on Sewer D
	18:30	8.27	921	5%	--/779	0.59/2.74	AV on Sewer D
11-Jun-04							
Sewer A	8:37	14.45	50.29	0%	--	14.21/2.81	
	12:25	7.76	476	0%	0.98/ --	--	
Sewer B	8:37	17.37	56.54	0%	--	14.05/2.61	
	12:25	3.64	180	0%	0.80/ --	--	
Sewer C	8:37	17.21	5.9	0%	--	14.42/2.64	
	12:25	2.64	142	0%	0.90/ --	--	
Sewer D	8:37	47.82	3169	13%	--	14.87/4.01	BV on Sewer D
	10:32	--	--	10%	--	--	DV on Sewer D
	12:25	20.3	2934	4%	2.81/ 539	--	DV on Sewer D; stopped venting at 12:45
Sewer E	8:37	16.65	31.35	0%	--/14.46	12.82/14.21	
	12:25	7.05	802	0%	1.24/319	--	
12-Jun-04							
Sewer A	12:01	--	--	0%	--		
Sewer B	11:55	--	--	0%	--		
Sewer C	11:51	--	--	0%	--		
Sewer D	11:48	--	--	0%	--		
Sewer E	--	--	--	--	--		
13-Jun-04							
Sewer A	12:38	--	--	0%	--		
Sewer B	12:34	--	--	0%	--		
Sewer C	12:31	--	--	0%	--		
Sewer D	12:27	--	--	3%	--		
Sewer E	--	--	--	--	--		
14-Jun-04							
Sewer A	15:00	1.53	104	0%	--/25.66		
Sewer B	15:00	1.01	131	2%	--/34.6		
Sewer C	15:00	0.31	936	0%	--/61		
Sewer D	15:00	5.03	1670	5%	--/467		
Sewer E	15:00	4.55	1734	9%	--/504		
15-Jun-04							
Sewer A	14:25	8.92	393	0%	--/219	4.72/-1.57	
Sewer B	14:25	8.09	621	0%	--/331	1.21/4.26	
Sewer C	14:25	7.42	598	0%	--/289	1.66/-1.83	
Sewer D	14:25	3.96	242	0%	--/103	2.09/-1.47	
Sewer E	14:25	8.45	1830	5%	--/682	1.37/-2.03	
16-Jun-04							
Sewer A	07:59	37.6	2759	6%	--/861	6.80/0.11	
Sewer B	07:59	21.40	1730	4%	--/827	--	
Sewer C	07:59	12.3	2.57	0%	--	--	
Sewer D	07:59	14.3	626	0%	--/175	--	DV on Sewer D
Sewer E	07:59	41	6030	13%	--/2200	--	
17-Jun-04							
Sewer A	13:15	4.65	319	2%	--/296	--	
Sewer B	13:15	24.8	1960	6%	--/836	--	
Sewer C	13:15	1.52	338	0%	--/127	--	
	15:15	--	--	1%	--	--	
Sewer D	13:15	65.6	1.16%	37%	--/5096	--	BV on Sewer D
	15:15	--	--	6%	--	--	AV on Sewer D
Sewer E	13:15	36.8	3204	11%	--/895	--	
	15:15	--	--	0%	--	--	

TABLE 2-2
Summary of Sewer Monitoring Results
Hartford Community Center

	Time	PID	FID	LEL	PID/FID *	PID/FID (AA)	Description
18-Jun-04							
Sewer A	12:50	3.97	451	0%	--/142	--	
Sewer B	12:50	5.38	296	0%	--/91.58	--	
Sewer C	12:50	5.27	192	0%	--/119	--	
Sewer D	12:50	5.3	454	0%	--/110	--	BV on Sewer D
	14:10	--	--	0-3%	--	--	AV on Sewer D
Sewer E	12:50	29.5	8722	16%	--/158	--	
19-Jun-04							
Sewer A	10:40	1.6	5.52	0%	--/3.85	--	
Sewer B	10:40	1.28	92.04	0%	--/32.29	--	
Sewer C	10:40	0.55	4.07	0%	--/6.89	--	
Sewer D	10:40	3.55	405	2%	--/168	--	
Sewer E	10:40	2.28	255	0%	--/107	0.49/4.07	
20-Jun-04							
Sewer A	12:50	2.94	109	0%	--/36.84	--	
Sewer B	12:50	1.48	60.18	0%	--/32.57	--	
Sewer C	12:50	5.75	581	0%	--/167	--	
Sewer D	12:50	16.4	2785	8%	--/978	--	
Sewer E	12:50	4.62	1553	2%	--/462	0.35/126	
21-Jun-04							
Sewer A	13:24	5.37	498	0%	--/155	--	
Sewer B	13:24	13.62	559	0%	--/166	--	
Sewer C	13:24	28.74	1140	0%	--/283	--	
Sewer D	13:24	18.41	3904	5%	--/1528	--	
Sewer E	13:24	-1.57	22.2	0%	--/5.67	--	
22-Jun-04							
Sewer A	12:05	0.71	3.52	0%	--/0.45	0.09/3.59	
Sewer B	12:05	1.24	9.91	0%	--/2.94	0.26/4.30	
Sewer C	12:05	0.94	4.45	0%	--/0.9	0.35/4.06	
Sewer D	12:05	8.65	318	0%	--/93.4	0.28/0.80	
Sewer E	12:05	1.34	5.25	0%	--/1.06	0.30/3.52	
23-Jun-04							
Sewer A	12:19	12.55	124	0%	--/35.86	2.55/3.26	
Sewer B	12:16	16.17	107	0%	--/18.65	3.24/3.37	
Sewer C	12:13	9.67	35.9	0%	--/12.98	1.67/3.45	
Sewer D	12:10	25.88	734	0%	--/214	2.45/3.10	
Sewer E	12:06	32.68	130	0%	--/34.98	0.90/2.50	
24-Jun-04							
Sewer A	12:24	1.06	19.53	0%	--/8.24	0.76/3.58	
Sewer B	12:19	1.24	38.39	0%	--/13.24	0.64/3.60	
Sewer C	12:15	1.16	45.45	0%	--/3.34	0.61/3.80	
Sewer D	12:11	3.14	520	0%	--/248	0.61/2.43	
Sewer E	12:08	1.13	16.38	0%	--/3.52	0.84/4.05	
25-Jun-04							
Sewer A	12:20	--	--	--	--	0.30/3.72	
	12:22	0.29	5.42	0%	--/1.02	--	
Sewer B	12:16	--	--	--	--	0.25/5.33	
	12:18	0.68	20.61	0%	--/4.86	--	
Sewer C	12:13	--	--	--	--	0.24/5.75	
	12:14	0.59	5.43	0%	--/3.4	--	
Sewer D	12:10	--	--	--	--	0.24/0.60	
	12:12	5.03	699	0%	--/203	--	
Sewer E	12:08	--	--	--	--	0.28/5.07	
	12:09	1.2	15.68	0%	--/3.73	--	
26-Jun-04							
Sewer A	12:25	1.5	27.2	0%	--/14.6	--	
Sewer B	12:25	2.25	89.3	0%	--/40.86	--	
Sewer C	12:25	2.85	197	0%	--/85.8	--	
Sewer D	12:25	5.3	316	0%	--/116	--	
Sewer E	12:25	2.29	86.7	0%	--/41.76	0.48/3.21	
27-Jun-04							
Sewer A	13:02	8.6	671	0%	--/240	--	
Sewer B	13:02	1.5	22.9	0%	--/7.78	--	
Sewer C	13:02	3.61	147	0%	--/69.51	--	
Sewer D	13:02	8.65	1023	0%	--/448	--	
Sewer E	13:00	--	--	--	--	1.14/7.6	
	13:02	7.5	1338	2%	--/456	--	
28-Jun-04							
Sewer A	13:00	1.36	10.08	0%	--/2.7	--	
Sewer B	13:00	1.9	43.7	0%	--/14.18	--	
Sewer C	13:00	1.6	16.1	0%	--/6.8	--	
Sewer D	13:00	4.8	554	0%	--/241	--	
Sewer E	13:00	2.6	79.75	0%	--/32.23	1.8/2.26	

TABLE 2-2
Summary of Sewer Monitoring Results
Hartford Community Center

	Time	PID	FID	LEL	PID/FID *	PID/FID (AA)	Description
29-Jun-04							
Sewer A	13:00	4.02	335	0%	1.05/138	0.25/0.45	
Sewer B	13:00	0.33	333.7	0%	0.01/88.98	--	
Sewer C	13:00	0.5	220	0%	0.0/10.40	--	
Sewer D	13:00	3.8	780	0%	0.54/380	--	
Sewer E	13:00	1	250	0%	1.40/400	--	
30-Jun-04							
Sewer A	13:35	11	1110	6%	0.36/180	--	BV on Sewer D
	14:21	14.81	1585	7%	0.27/373	--	DV on Sewer D
	15:06	--	--	7%	--	--	DV on Sewer D
	15:34	--	--	1%	--	--	DV on Sewer D
	15:57	0.32	18.34	5%	0.05/3.17	--	DV on Sewer D
Sewer B	13:31	4.1	636	4%	0.12/152	--	BV on Sewer D
	14:17	3.82	470	7%	0.12/373	--	DV on Sewer D
	15:05	--	--	4%	--	--	DV on Sewer D
	15:55	0.03	5.59	8%	-0.001298701	--	DV on Sewer D
Sewer C	13:28	0.81	85.67	0%	0.19/54.74	--	BV on Sewer D
	14:12	1.2	212	0%	-0.000637349	--	DV on Sewer D
	15:03	--	--	0%	--	--	DV on Sewer D
	15:54	0.14	4.95	10%	-0.004310345	--	DV on Sewer D
	16:00	0.5	18.03	5%	0.06/3.24	--	AV on Sewer D
Sewer D	13:25	6.9	1892	8%	0.05/422	--	BV on Sewer D
	14:06	10.1	2453	12%	0.12/854	--	DV on Sewer D
	15:02	--	--	14%	--	--	DV on Sewer D
	15:19	--	--	13%	--	--	DV on Sewer D
	15:30	--	--	12%	--	--	DV on Sewer D
	15:50	4.95	611	5%	0.01/475	--	DV on Sewer D
Sewer E	13:17	2.95	704	4%	0.62/150	--	BV on Sewer D
	14:02	2.31	410	3%	0.00/158	--	DV on Sewer D
	15:00	--	--	0%	--	--	DV on Sewer D
	15:52	0.25	29.85	5%	-0.09/12.75	--	DV on Sewer D
1-Jul-04							
Sewer A	13:15	9.78	892	3%	0.79/243	--	
Sewer B	13:10	1.75	39.68	0%	0.55/550	--	
Sewer C	13:05	2.61	211	6%	0.64/73.80	--	
Sewer D	13:02	6.71	1783	8%	0.50/501	--	
Sewer E	13:00	2.2	98	-1%	0.34/27.69	--	
2-Jul-04							
Sewer A	1:15	11.4	53	0%	1.19/3.8	11.25/1.74	
Sewer B	1:06	12.93	106	0%	2.10/9.8	--	
Sewer C	12:56	13.25	510	8%	9.23/655	--	
Sewer D	12:30	23.18	1758	8%	8.52/190	--	
	1:45	10	25.87	2%	321/3.16	--	
Sewer E	12:15	20.16	18.4	-1%	8.62/3.44	--	
	1:55	14.97	150	1%	12.00/4.70	--	
3-Jul-04							
Sewer A	12:40	45.96	109.5	0%	39.1/59.8	16.34/1.62	
Sewer B	12:30	128	167.5	0%	34.9/56.70	--	
Sewer C	12:25	462	17.18	3%	220/37.14	--	
Sewer D	12:05	210	1.4	6%	39.7/42.10	--	
Sewer E	11:55	110	6.25	0%	2.53/1.96	--	
4-Jul-04							
Sewer A	12:30	20.81	125	0%	28.0/109	12.00/1.79	
Sewer B	12:15	25.81	150	0%	30.1/104	--	
Sewer C	12:05	30.19	495	3%	23.21/245	--	
Sewer D	11:55	183.45	697.2	7%	40.83/482.3	--	
Sewer E	11:40	37.81	4.35	0%	24.59/0.82	--	
5-Jul-04							
Sewer A	12:20	-1	167.31	0%	-2.21/31.6	-8/2.5	
Sewer B	11:45	-2.1	140	0%	-3.21/45.0	--	
Sewer C	11:30	-3.5	135	0%	-10/35.61	--	
Sewer D	11:25	-2.2	160	0%	-12/42.54	--	
Sewer E	11:15	-2.3	195	0%	-12/54.87	--	
6-Jul-04							
Sewer A	--	48.24	347	0%	--	13.86/1.11	
Sewer B	--	25.41	164	0%	--	17.42/1.42	
Sewer C	--	20.43	93.79	0%	--	10.32/1.62	
Sewer D	--	50.35	4715	14%	--	25.62/1.42	
Sewer E	13:10	137	4624	13%	--	23.4/0.08	
7-Jul-04							
Sewer A	--	1.68	6.42	0%	--/0.92	0.17/1.06	
Sewer B	--	1.27	9.18	0%	--/0.86	0.18/1.25	
Sewer C	--	1.24	2.02	0%	--/-0.98	0.11/0.98	
Sewer D	--	2.46	74.86	0%	--/17.49	0.03/0.86	
Sewer E	12:12	5.72	7.89	0%	--/1.12	0.02/1.09	

TABLE 2-2
Summary of Sewer Monitoring Results
Hartford Community Center

	Time	PID	FID	LEL	PID/FID *	PID/FID (AA)	Description
8-Jul-04							
Sewer A	--	10.82	862	0%	--/207	0.02/4.15	
Sewer B	--	2.79	149	0%	--/131	0.03/4.34	
Sewer C	--	2.49	50.34	1%	--/8.04	0.03/4.24	
Sewer D	--	5.32	1054	4%	--/345	0.08/3.84	
Sewer E	12:55	4.27	790	2%	--/315	0.02/2.7	
9-Jul-04							
Sewer A	--	15.61	61.54	3%	1.50/41.00	--	
Sewer B	--	4.81	5.03	0%	0.11/2.10	--	
Sewer C	--	9.63	11.41	2%	3.11/2.81	--	
Sewer D	--	13.41	763	1%	5.0/201	--	
Sewer E	13:30	102.1	963	4%	20.13/105	0.43/0.63	
10-Jul-04							
Sewer A	12:30	14.93	21.83	0%	4.30/5.61	1.65/0.91	
Sewer B	12:40	18.94	210.0	0%	10.01/204	1.70/0.90	
Sewer C	12:55	16.43	23.51	0%	3.11/2.01	1.84/0.88	
Sewer D	13:15	16.71	769.0	4%	3.11/200.1	1.75/1.17	
Sewer E	13:25	13.11	947	4%	4.15/481.13	1.62/0.91	
11-Jul-04							
Sewer A	11:40	18.71	94.03	2%	21.11/61.01	2.24/2.00	
Sewer B	11:30	19.58	104	0%	8.46/63.11	2.11/1.98	
Sewer C	11:15	21.40	360	0%	12.63/158	3.02/2.41	
Sewer D	11:10	30.79	14.81	2%	14.11/2.20	2.48/1.19	
Sewer E	11:00	346	801	0%	13.6/108	3.11/2.21	
12-Jul-04							
Sewer A	13:25	20	470	0%	--/285	--	
Sewer B	13:30	12	1325	8%	--/310	--	
Sewer C	13:35	2	128	2%	--/110	--	
Sewer D	13:40	100	1385	6%	--/620	--	
Sewer E	13:45	2	335	2%	--/90	--	
13-Jul-04							
Sewer A	13:15	39.7	3460	18%	--/1220	0.2/1.39	
Sewer B	13:10	25	2850	11%	--/220	--	
Sewer C	13:07	0.9	6.2	1%	--/1.7	--	
Sewer D	13:02	2.5	4350	13%	--/1178	--	
Sewer E	13:00	1.9	320	3%	--/100	--	
14-Jul-04							
Sewer A	--	0.5	2.7	0%	--/0.6	--	
Sewer B	--	1.6	125	0%	--/115	--	
Sewer C	--	0.7	3.4	0%	--/0.9	--	
Sewer D	--	9.7	1980	6%	--/931	--	
Sewer E	12:30	3.4	31.7	1%	--/6.9	.4/1.6	
15-Jul-04							
Sewer A	--	0.1	0.95	0%	--/.0	--	
Sewer B	--	0.4	2.3	0%	--/0.3	--	
Sewer C	--	0.4	1.9	0%	--/0.2	--	
Sewer D	--	5.2	1215	3%	--/189	--	
Sewer E	12:26	2.9	429	0%	--/346	0.15/0.46	
16-Jul-04							
Sewer A	13:45	28.11	105.6	2%	13.2/23.14	1.05/0.5	
Sewer B	13:30	11.04	23.11	1%	4.11/5.06	1.40/0.09	
Sewer C	13:20	2.11	14.61	1%	1.01/3.81	1.00/0.00	
Sewer D	13:10	13.91	487	17%	5.61/102	1.30/0.04	
	14:40	13.5	144	10%	6.11/17.84	1.03/1.1	AV
	15:10	12.11	139	12%	4.03/14.48	1.40/1.00	AV
	16:30	13.11	143	8%	3.06/12.11	1.01/1.4	AV
Sewer E	13:05	3.45	22.11	2%	1.89/14.61	1.27/.00	
17-Jul-04							
Sewer A	--	14.8	35.89	0%	--	--	
Sewer B	--	16.07	61.95	0%	--	--	
Sewer C	--	12.6	3.39	0%	--	--	
Sewer D	--	26.4	59.06	2%	--	--	
Sewer E	11:45	29.9	12.41	0%	--	2.9/3.14	
18-Jul-04							
Sewer A	13:20	4.88	5.61	0%	--	2.19/2.00	
Sewer B	13:05	5.05	11.31	1%	--	2.34/2.06	
Sewer C	12:55	4.04	4.25	0%	--	2.91/2.37	
Sewer D	12:45	13.27	667	3%	--	2.70/2.99	
Sewer E	12:30	13.21	29.31	0%	--	2.85/3.00	
19-Jul-04							
Sewer A	14:00	22.6	2018	4%	--/262	--	
Sewer B	13:55	11.8	1390	6%	--/550	--	
Sewer C	13:53	17.0	2030	4%	--/850	--	
Sewer D	13:50	8.2	1440	4%	--/550	--	
Sewer E	13:46	3.4	95.4	0%	--/40	0.4/2.10	

TABLE 2-2
Summary of Sewer Monitoring Results
Hartford Community Center

	Time	PID	FID	LEL	PID/FID *	PID/FID (AA)	Description
20-Jul-04							
Sewer A	14:00	4.7	575	2%	--	--	
Sewer B	12:37	4.3	790	1%	--	--	
Sewer C	12:35	10.7	1845	7%	--	--	
Sewer D	12:33	8.9	2279	5%	--	--	
Sewer E	12:31	0.20	4.0	0%	--	0.00/0.00	
21-Jul-04							
Sewer A	12:56	5.5	775	4%	--/381	--	
Sewer B	12:51	16.1	2862	6%	--/373	--	
Sewer C	12:48	6.2	1062	3%	--/450	--	
Sewer D	12:45	12.7	2021	8%	--/642	--	
Sewer E	12:43	6.5	143	3%	--/60.1	0.2/0.5	
22-Jul-04							
Sewer A	12:22	0.3	-0.4	0%	--/-1.5	--	
Sewer B	12:18	1.3	19.9	0%	--/10.4	--	
Sewer C	12:16	0.4	1.1	0%	--/-0.3	--	
Sewer D	12:14	6.2	821	1%	--/331	--	
Sewer E	12:10	2.6	6.5	0%	--/0.5	0.3/-0.4	
23-Jul-04							
Sewer A	13:05	5.6	12.1	0%	--/4.2	3.3/4.6	
Sewer B	--	3.1	141	0%	--/20.16	1.6/2.3	
Sewer C	--	22	112	0%	--/31	2.2/14.2	
Sewer D	--	2.8	14.7	0%	--/2.6	1.6/3.2	
Sewer E	12:40	1.5	267	0%	--/69.0	0.66/0.15	
24-Jul-04							
Sewer A	--	8.6	26.5	0%	--/13.0	3.4/5.68	
Sewer B	--	6.9	177	0%	--/64.75	1.6/2.4	
Sewer C	--	4.8	16.8	0%	--/4.1	1.1/2.3	
Sewer D	--	4.4	137	0%	--/55.67	1.8/4.6	
Sewer E	12:31	7.3	38.49	0%	--/13.7	1.7/1.58	
25-Jul-04							
Sewer A	--	4.7	122	3%	--/76.4	--	
Sewer B	--	8.9	864	3%	--/142.9	1.9/2.6	
Sewer C	--	2.7	81.4	0%	--/22.5	1.7/1.8	
Sewer D	--	3.6	80.9	3%	--/26.4	1.2/3.7	
Sewer E	12:25	1.7	15.6	1%	--/6.8	1.6/2.2	
26-Jul-04							
Sewer A	--	4.6	5.7	2%	--/1.3	1.8/--	
Sewer B	--	14.0	1109	0%	--/555	1.6/2.4	
Sewer C	--	2.4	31.5	1%	--/12.58	1.7/2.2	
Sewer D	--	16.7	1218	4%	--/485	1.5/2.2	
Sewer E	12:20	6.6	98.7	1%	--/32.9	1.6/3.8	
27-Jul-04							
Sewer A	13:30	6.50	300	4%	1.00/120	--	
Sewer B	13:24	6.70	566.0	0%	0.95/193	--	
Sewer C	13:20	1.70	2.60	1%	2.57/2.14	--	
Sewer D	13:15	12.82	1340	3%	2.70/327	--	
Sewer E	13:08	6.69	180	3%	11.2/83.51	0.20/1.65	
28-Jul-04							
Sewer A	--	0.40	12.5	2%	0.20/2.5	--	
	14:10	--	--	0%	--	--	
Sewer B	--	10.5	1500	5%	0.31/770	--	
	14:07	--	--	0%	--	--	
Sewer C	--	13.7	1840	6%	0.10/725	--	
	14:02	--	--	4%	--	--	
Sewer D	--	29.2	4630	11%	0.34/2700	--	
	13:45	--	--	11%	--	--	
	14:00	--	--	6%	--	--	
Sewer E	13:20	0.25	70.1	0%	0.78/62.9	--	
	14:15	--	--	0%	--	--	
29-Jul-04							
Sewer A	13:38	54.5	1650	5%	8.20/696	--	
Sewer B	13:32	63.9	2024	6%	13.1/796	--	
Sewer C	13:27	66.8	1335	4%	14.4/256	--	
Sewer D	13:24	543	1689	2%	7.70/397	--	
Sewer E	13:20	18.3	190	0%	11.42/74.3	--	
30-Jul-04							
Sewer A	13:25	3.11	14.64	1%	1.61/321.0	0.75/2.30	
Sewer B	13:10	2.11	981	0%	0.09/70.1	0.80/2.50	
Sewer C	13:00	2.9	101	0%	0.09/69.5	0.85/2.61	
Sewer D	12:50	4.95	1042	1%	0.09/610	0.70/2.80	
Sewer E	12:45	4.81	624	0%	147/0.09	0.62/2.91	
31-Jul-04							
Sewer A	13:00	25.61	238.0	1%	18.75/26.11	4.11/2.87	
Sewer B	12:50	20.03	196	0%	19.00/4.25	3.87/2.19	
Sewer C	12:40	20.80	18.74	0%	19.71/3.20	12.84/2.12	
Sewer D	12:30	31.33	723	1%	20.03/122.50	1.21/0.63	
Sewer E	12:15	28.8	211.0	0%	12.22/28.13	2.11/1.67	

TABLE 2-2
Summary of Sewer Monitoring Results
Hartford Community Center

	Time	PID	FID	LEL	PID/FID *	PID/FID (AA)	Description
1-Aug-04							
Sewer A	13:00	11.50	14.03	1%	32.1/116.0	2.00/1.01	
Sewer B	12:50	29.34	450	2%	48.9/116.3	2.99/0.00	
Sewer C	12:40	27.25	793	4%	1695/343	3.01/0.15	
Sewer D	12:30	36.17	2005	5%	40.51/825	3.18/0.09	
Sewer E	12:20	32.75	1406	6%	23.81/272	1.03/0.51	
2-Aug-04							
Sewer A	11:40	21.81	109.8	1%	10.1/73.04	0.09/1.44	
Sewer B	11:30	1.30	14.81	2%	0.2/12.83	0.04/1.33	
Sewer C	11:20	1.55	45.03	0%	2.11/31.60	0.02/1.65	
Sewer D	11:15	40.00	1920	21%	3.11/79.05	0.08/2.65	
	13:25	13.04	70.00	12%	1404/78.99	0.29/1.34	AV
	14:00	16.81	6092	11%	4.85/1002	0.30/1.26	AV
	14:35	18.00	1200	8%	3.8/100.5	--	AV
Sewer E	11:00	1.41	592	2%	0.01/63.0	0.12/1.40	
3-Aug-04							
Sewer A	12:30	1.85	12.81	0%	1.99/14.61	0.15/1.40	
Sewer B	12:20	2.44	19.38	0%	0.03/4.36	0.14/1.39	
Sewer C	12:15	10.05	126.81	1%	4.00/14.83	0.11/1.44	
Sewer D	12:10	23.51	1173.2	3%	413/126.81	0.10/1.58	
Sewer E	12:00	14.31	126.3	2%	3.41/605.3	0.15/2.11	
4-Aug-04							
Sewer A	13:15	14.6	42.7	0%	--/13.4	3.6/4.9	
Sewer B	13:10	6.8	35.9	0%	--/13.6	4.2/5.8	
Sewer C	13:05	4.9	12.3	0%	--/3.5	4.1/3.2	
Sewer D	13:00	35.9	3576	12%	--/518	3.8/3.2	
	14:15	--	--	12%	--	--	AV
	14:40	--	--	13%	--	--	AV
	15:25	--	--	0%	--	--	AV
Sewer E	12:50	15.6	135	2%	--/44	3.2/2.6	
5-Aug-04							
Sewer A	13:15	2.36	4.09	0%	0.67/0.09	0.76/1.0	
Sewer B	13:10	14.48	38.77	0%	1.12/7.89	0.66/1.0	
Sewer C	13:09	5.8	24.46	0%	1.72/1.90	1.17/0.09	
Sewer D	13:02	3.69	8.23	0%	2.72/15.32	1.29/0.02	
Sewer E	12:55	3.96	2.56	0%	0.72/3.91	0.40/1.0	
6-Aug-04							
Sewer A	11:22	4.52	367	0%	0.52/122	0.32/4.25	
Sewer B	11:21	1.42	40.48	0%	0.57/135	0.41/3.62	
Sewer C	11:19	0.85	3.50	0%	0.46/1.76	0.44/4.28	
Sewer D	11:17	1.91	37.27	0%	0.41/3.02	0.28/3.88	
Sewer E	11:15	1.65	205	0%	0.37/3.96	0.26/3.13	
7-Aug-04							
Sewer A	--	5.2	248	0%	--/118.0	0.40/4.6	
Sewer B	--	1.9	42.6	0%	--/12.87	0.52/3.9	
Sewer C	--	1.4	4.1	0%	--/1.6	0.40/4.1	
Sewer D	--	2.1	39.8	4%	--/8.7	0.28/3.4	
Sewer E	1145	1.8	265	2%	--/4.36	0.20/2.8	
8-Aug-04							
Sewer A	11:45	3.22	14.83	0%	0.60/3.20	0.50/2.04	
Sewer B	11:30	5.61	128.3	2%	8.22/46.31	0.58/3.02	
Sewer C	11:20	4.17	69.73	0%	0.50/2.87	0.40/2.18	
Sewer D	11:00	14.31	605.8	2%	3.81/5.81	0.28/2.10	
Sewer E	10:45	2.81	158	2%	0.40/4.11	0.30/4.11	
9-Aug-04							
Sewer A	1235	20	1143	5%	--/240	--	
Sewer B	--	1.5	5.2	1%	--	0.25/2.6	
Sewer C	--	1.1	3.0	0%	--	0.31/3.3	
Sewer D	--	21.6	2440	12%	--/840.0	0.17/3.2	
	1400	--	--	13%	--	--	AV
	1500	--	--	8%	--	--	AV
Sewer E	1205	5.7	45.6	1%	--/12.5	0.24/3.3	
10-Aug-04							
Sewer A	12:45	2.03	19.85	1%	1.05/19.00	0.18/2.01	
Sewer B	13:28	1.41	16.81	0%	1.17/10.46	0.11/1.53	
Sewer C	13:20	1.15	6.34	0%	0.40/3.00	0.78/2.61	
Sewer D	13:10	4.35	959	3%	4.68/8.36	0.16/1.78	
Sewer E	13:00	3.28	23.85	0%	1.01/13.5	0.07/2.85	
11-Aug-04							
Sewer A	12:25	1.50	4.00	1%	0.30/2.11	0.09/0.15	
Sewer B	13:25	2.61	1205	0%	0.13/551	0.15/0.66	
Sewer C	13:15	0.73	4.35	0%	0.08/8.25	0.08/0.10	
Sewer D	12:55	1.75	848	0%	0.19/610	0.21/0.39	
Sewer E	12:40	4.25	11.64	0%	0.15/4.78	0.20/0.09	

TABLE 2-2
Summary of Sewer Monitoring Results
Hartford Community Center

	Time	PID	FID	LEL	PID/FID *	PID/FID (AA)	Description
12-Aug-04							
Sewer A	11:40	1.98	2.41	0%	0.79/14.23	2.61/2.63	
Sewer B	12:40	12.83	102.51	1%	9.87/40.3	6.84/2.05	
Sewer C	12:30	28.27	7.89	0%	12.50/5.54	7.81/2.93	
Sewer D	12:20	70.95	502	3%	13.65/704	8.99/3.80	
Sewer E	12:16	40.1	18.73	0%	9.21/11.03	2.77/6.80	
13-Aug-04							
Sewer A	--	0.21	20.3	0%	--	--	
Sewer B	--	0.46	5.6	0%	--	0.47/6.6	
Sewer C	--	0.91	6.9	0%	--	0.45/5.7	
Sewer D	--	4.8	767	3%	--/245	0.43/5.8	
Sewer E	12:00	0.70	26.0	0%	--/7.8	0.49/4.85	
14-Aug-04							
Sewer A	--	2.8	12.6	0%	--	1.4/3.6	
Sewer B	--	2.3	5.8	0%	--	1.4/3.2	
Sewer C	--	2.4	4.8	0%	--	1.4/2.6	
Sewer D	--	4.7	51.9	2%	--/6.8	1.2/2.4	
Sewer E	11:05	2.4	2.8	0%	--	1.6/2.3	
15-Aug-04							
Sewer A	--	1.4	2.4	0%	--	0.18/1.6	
Sewer B	--	0.46	1.6	0%	--	0.03/1.4	
Sewer C	--	0.35	4.8	0%	--	0.04/1.6	
Sewer D	--	1.2	76.7	2%	--/21.8	1.9/2.9	
Sewer E	11:07	1.8	92.7	0%	--/38.6	0.19/1.5	
16-Aug-04							
Sewer A	13:14	10.01	908	4%	--/299	0.11/1.65	
Sewer B	13:11	0.33	30.09	0%		0.04/0.45	
Sewer C	13:09	0.26	21.92	0%		0.06/0.75	
Sewer D	13:05	12.85	1834	7%	--/595	0.16/1.45	
Sewer E	13:02	0.72	65.7	4%	--/3.8	0.05/0.48	
17-Aug-04							
Sewer A	12:31	22.6	2405	5%	--842	0.4/3.1	
Sewer B	12:27	30.1	2662	8%	--/1091	0.4/1.9	
Sewer C	12:24	1.45	120	1%	--/68.4	0.4/2.0	
Sewer D	12:20	19.9	3792	9%	--123.4	0.5/2.9	
Sewer E	12:15	0.9	38.6	0%	--/17.3	0.5/2.4	
18-Aug-04							
Sewer A	12:30	3.25	14.89	0%	0.63/2.81	0.03/2.93	
Sewer B	13:05	2.11	2.84	0%	0.41/0.09	0.24/2.63	
Sewer C	12:59	3.21	12.81	0%	0.49/2.00	0.21/2.68	
Sewer D	12:50	20.31	109.43	4%	6.8/23.21	0.19/2.60	
Sewer E	12:10	19.31	106	1%	2.11/12.81	0.14/2.60	
19-Aug-04							
Sewer A	--	2.8	35.6	0%	--/1.9	1.1/1.8	
Sewer B	--	2.1	18.4	0%	--/1.2	0.7/1.5	
Sewer C	--	1.9	24.6	0%	--/1.7	1.0/0.9	
Sewer D	--	9.4	550	2%	--/148	1.2/1.8	
Sewer E	13:25	4.2	54.5	0%	--/16.8	0.8/1.2	
20-Aug-04							
Sewer A	11:30	1.32	4.81	0%	0.69/1.20	0.46/1.32	
Sewer B	12:20	11.31	19.43	0%	1.06/2.11	1.05/0.99	
Sewer C	12:10	12.33	126.4	1%	4.81/28.91	1.45/1.06	
Sewer D	12:00	14.25	458.9	4%	2.11/106.7	1.63/1.06	
Sewer E	11:45	12.41	136.8	1%	3.21/14.91	0.5/1.06	
21-Aug-04							
Sewer A	12:06	64.36	152	0%	--/98	20.26/2.89	
Sewer B	12:02	40.39	4.05	2%	--/0.35	19.40/2.75	
Sewer C	11:56	73.42	450	1%	--/111	24.56/3.32	
Sewer D	11:51	3.40	4.04	0%	--/101	18.71/3.75	
Sewer E	11:43	43.98	140	2%	--/35.48	14.23/3.82	
22-Aug-04							
Sewer A	12:40	5.46	16.97	0%	--/1.21	0.56/0.51	
Sewer B	12:37	3.14	37.84	0%	--/6.39	1.20/0.41	
Sewer C	12:30	4.35	14.65	0%	--/2.48	1.34/0.60	
Sewer D	12:25	21.08	3416	5%	--/220	1.73/0.23	
Sewer E	12:18	5.03	19.97	0%	--/0.48	1.31/0.8	
23-Aug-04							
Sewer A	12:12	3.84	145	1%	--/15.08	0.94/0.38	
Sewer B	12:08	9.85	981	0%	--/736	0.91/0.15	
Sewer C	12:04	2.50	36.18	0%	--/15.45	1.12/0.00	
Sewer D	11:59	0.65	2080	8%	--/1440	0.56/1.00	
Sewer E	11;54	2.62	150	0%	--/130	1.21/0.00	
24-Aug-04							
Sewer A	12:15	4.34	4.76	0%	--/4.75	1.32/4.89	
Sewer B	12:11	5.36	5.99	0%	--/5.77	2.89/3.13	
Sewer C	12:08	5.93	8.01	0%	--4.12	3.67/3.48	
Sewer D	12:04	12.57	380	0%	--/161	4.38/3.20	
Sewer E	12:00	8.35	13.54	0%	--/10.42	3.32/3.71	

TABLE 2-2
Summary of Sewer Monitoring Results
Hartford Community Center

	Time	PID	FID	LEL	PID/FID *	PID/FID (AA)	Description
25-Aug-04							
Sewer A	--	1.7	80.6	3%	--/1.1	0.1/0.2	
Sewer B	--	0.2	5.5	0%	--/0.5	0.3/0.1	
Sewer C	--	0.8	42.3	1%	--/17.3	0.2/0.8	
Sewer D	--	2.4	3.0	4%	--/130	0.1/0.3	
Sewer E	--	0.3	4.5	0%	--/1.5	0.1/0.4	
26-Aug-04							
Sewer A	--	16.8	322	0%	--/170	13.1/2.4	
Sewer B	--	16.2	61.2	0%	--/18.5	12.7/2.7	
Sewer C	--	15.7	345	0%	--/405	12.9/2.6	
Sewer D	--	20.1	2450	9%	--/915	12.9/2.4	
Sewer E	12:25	16.1	11.1	0%	--/5.2	12.7/2.5	
27-Aug-04							
Sewer A	--	13.1	357	1%	--/75.9	9.7/2.8	
Sewer B	--	13.7	772	1%	--/218	9.4/2.9	
Sewer C	--	12.2	135	0%	--/14.8	8.9/3.4	
Sewer D	--	20.1	925	2%	--/252	13.4/3.4	
Sewer E	11:30	26.7	77.1	0%	--/14.3	12.9/2.9	
28-Aug-04							
Sewer A	1200	3.45	747	0%	--/333	2.11/4.89	
Sewer B	1149	3.21	898	0%	--/432	1.54/--	
Sewer C	1145	3.21	7.15	0%	--/6.01	2.05/2.84	
Sewer D	1140	15.98	9144	21%	-/3314	1.81/239	
	1430	4.65	8.42	0%	--	--	AV
Sewer E	1133	19.50	6898	21%	--/5475	2.54/2.72	
	1430	2.54	5.32	0%	--	--	AV
29-Aug-04							
Sewer A	11:12	10.75	17.89	0%	--/10.45	2.42/3.57	
Sewer B	11:07	9.74	670	0%	--/423	2.62/4.32	
Sewer C	11:03	10.50	15.11	0%	--/13.11	2.24/4.07	
Sewer D	10:59	15.47	1185	4%	--/692	2.19/3.83	
Sewer E	10:54	8.76	46.43	0%	--/35.84	2.23/4.39	
30-Aug-04							
Sewer A	11:45	4.63	14.03	0%	0.91/1.11	1.33/1.50	
Sewer B	11:36	3.46	19.99	1%	1.45/4.05	0.94/1.67	
Sewer C	11:25	2.41	19.45	0%	0.91/3.21	0.93/1.67	
Sewer D	11:15	1.63	149.31	2%	2.11/19.21	0.99/1.42	
Sewer E	11:00	3.41	125.0	1%	1.03/19.83	0.95/1.31	
31-Aug-04							
Sewer A	12:30	1.53	2.12	0%	--	1.63/0.24	
Sewer B	12:25	14.56	50.30	0%	--/8.79	1.81/1.15	
Sewer C	12:15	1.48	0.69	0%	--	0.83/0.1	
Sewer D	12:10	18.7	2530	2%	--/432	0.79/0.20	
Sewer E	12:05	12.8	26.7	0%	--/1.1	0.49/0.1	
1-Sep-04							
Sewer A	--	10.9	349	15%	--/162	0.1/1.9	
Sewer B	--	22.4	698	0%	--/275	0.6/1.1	
Sewer C	--	24.9	897	2%	--/515	0.8/0.9	** Venting occurred from 13:45 to 14:14.
Sewer D	--	13.3	349	3%	--/202	1.4/0.9	After venting, all sewers were at normal limits.
Sewer E	13:00	35.2	2377	9%	--/197	0.0/0.1	
2-Sep-04							
Sewer A	12:40	2.50	35.0	0%	--/18.9	0.2/1.4	
Sewer B	12:39	0.7	179	9%	--/58.7	1.1/0.0	
Sewer C	12:30	0.5	5.6	0%	--/4.21	0.1/1.0	
Sewer D	12:25	11.7	2180	8%	--/985	0.1/3.4	
Sewer E	12:20	7.5	854	3%	--/415	0.0/1.8	
3-Sep-04							
Sewer A	--	18.86	558	0%	--/64.07	1.12/2.85	
Sewer B	--	1.06	6.01	0%	--/1.12	0.79/0.95	
Sewer C	--	108	2.47	3%	--/1.63	0.43/1.71	
Sewer D	--	57.5	28.7	0%	--/111	0.07/2.11	
Sewer E	--	59.56	1301	3%	--/851	0.42/1.65	
4-Sep-04							
Sewer A	--	1566	17.97	0%	--/3.92	1.89/4.69	
Sewer B	--	1024	147	0%	--/42.1	6.24/5.83	
Sewer C	--	1022	165	0%	--/23.2	6.46/2.10	
Sewer D	--	311	559	0%	--/138	3.95/5.69	
Sewer E	12:20	718	52.87	0%	--/6.22	1.46/4.11	
5-Sep-04							
Sewer A	--	453	227	0%	--/51.3	1.22/2.10	
Sewer B	--	144	2.26	0%	--/0.33	0.79/1.45	
Sewer C	--	238	313	0%	--/7.96	0.92/2.64	
Sewer D	--	131	272	0%	--/2.23	0.94/1.99	
Sewer E	11:30	171	12.06	0%	--/0.45	7.31/2.17	

TABLE 2-2
Summary of Sewer Monitoring Results
Hartford Community Center

	Time	PID	FID	LEL	PID/FID *	PID/FID (AA)	Description
6-Sep-04							
Sewer A	--	177	73.72	0%	--/5.55	16.62/3.81	
Sewer B	--	81.76	91.81	0%	--/1.24	2.65/2.11	
Sewer C	--	23.21	4.00	0%	--/0.93	0.67/1.62	
Sewer D	--	31.89	297	0%	--/39.9	1.42/4.36	
Sewer E	13:10	2.69	9.47	0%	--/0.61	0.57/4.55	
7-Sep-04							
Sewer A	--	0.90	14.42	0%	1.95/3.98	0.74/2.56	
Sewer B	--	2.54	85.28	0%	2.39/15.48	0.76/2.53	
Sewer C	--	1.58	20.08	0%	0.86/10.65	2.86/2.92	
Sewer D	--	6.63	763	0%	2.45/16.68	0.66/4.52	
Sewer E	14:30	1.25	14.05	0%	1.32/6.89	1.25/6.07	
8-Sep-04							
Sewer A	11:00	23.19	105.01	1%	5.11/20.11	1.50/2.03	
Sewer B	12:30	14.21	18.93	0%	1.41/3.97	1.65/2.41	
Sewer C	12:00	3.39	18.97	2%	0.55/3.21	0.55/2.11	
Sewer D	11:45	4.21	18.31	3%	0.25/2.11	0.51/1.32	
Sewer E	11:30	3.41	14.31	1%	0.03/4.11	0.43/1.41	
9-Sep-04							
Sewer A	13:15	4.95	10.03	0%	1.51/3.21	1.50/1.40	
Sewer B	12:50	3.21	14.3	0%	1.00/2.81	1.00/0.59	
Sewer C	12:35	14.21	135.4	1%	2.17/18.95	1.15/2.15	
Sewer D	12:15	25.01	195.2	3%	3.21/14.89	1.10/1.28	
Sewer E	12:00	4.91	183.2	0%	1.04/14.81	0.95/1.31	
10-Sep-04							
Sewer A	12:57	3.27	12.56	0%	--/0.95	1.00/4.01	
Sewer B	12:45	2.56	98.46	0%	--/130.4	1.15/3.36	
Sewer C	12:40	8.87	219.5	2%	--/55.43	1.25/4.49	
Sewer D	12:35	7.39	119.4	0%	--/15.35	1.45/3.46	
Sewer E	12:30	5.56	256.4	0%	--/98.37	0.85/2.35	
11-Sep-04							
Sewer A	10:52	6.75	139	0%	--/45.37	3.45/4.36	
Sewer B	10:45	6.45	256	0%	--/63.97	2.41/1.40	
Sewer C	10:42	5.47	285	0%	--/634	2.94/2.05	
Sewer D	10:38	5.75	62.39	0%	--/97	2.13/1.09	
Sewer E	10:34	2.28	15.43	0%	--/158	2.24/1.21	
12-Sep-04							
Sewer A	--	26.9	25.6	0%	--	8.1/2.9	
Sewer B	--	38.7	44.1	0%	--	7.9/3.2	
Sewer C	--	24.2	13.6	0%	--	7.2/3.0	
Sewer D	--	32.7	24.8	0%	--	6.1/2.6	
Sewer E	1000	30.3	24	0%	--	3.9/1.19	
13-Sep-04							
Sewer A	1140	2.15	12.36	0%	0.91/5.01	1.50/1.61	
Sewer B	1132	32.15	198.31	1%	10.11/14.87	1.60/1.83	
Sewer C	1129	4.81	25.61	2%	2.11/14.83	1.55/1.93	
Sewer D	1120	19.21	198.31	4%	4.01/131.31	1.50/1.65	
Sewer E	1100	14.32	4.91	0%	2.49/3.11	1.63/1.90	

(AA) Ambient air outside
* PID/FID reading w/ scrubber
DV = During Venting
AV = After Venting
BV = Before Venting

Sewer A - Intersection of Rand and Old St. Louis Road (ENSR Name - RW-HAR)
Sewer B - Approximately 375' south of Sewer A (ENSR Name - OSL-N)
Sewer C - Intersection of Old St. Louis Road and Arbor (ENSR Name - WAW)
Sewer D - Approximately 400' east of Sewer C (ENSR Name - WAC)
Sewer E - Approximatley 300' east of Sewer D (ENSR Name - WAE)

TABLE 2-3

Summary of Sewer Vapor Analytical Results
Hartford Community Center

Lab Sample ID		**0403326A-03A**			**0404102A-01A**			**0407575A-02A**		
Field Sample ID		**OSLMH**			**033104 B-Sewer**			**072804A8.5A-S**		
Sample Date		**17-Mar-04**			**31-Mar-04**			**28-Jul-04**		
Sample Type		**Sewer Vapor**			**Sewer Vapor**			**Sewer Vapor**		
Sample Container		**Grab 6-Liter Summa Canister**			**Grab 6-Liter Summa Canister**			**Grab 6-Liter Summa Canister**		
Sample Description		**Hartford Community Center. Sewer gas sample, manhole on Old Saint Louis Rd between Rand St and West Arbor St.**			**Hartford Community Center. Sewer gas sample, manhole on Old Saint Louis Rd between Rand St and West Arbor St.**			**Manhole A8.5A (ENSR Name WAE or Manhole E) - Shallow Sample**		
Compound	**Method**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**
BENZENE	TO15	1,700	5,400	U	--	--	--	1.1	3.7	U
ETHYL BENZENE	TO15	1,700	7,400	U	1,500	6,700	U	1.1	5.0	U
STYRENE (MONOMER)	TO15	1,700	7,300	U	1,500	6,600	U	1.1	4.9	U
TOLUENE	TO15	2,200	8,600		1,500	5,800	U	1.1	4.4	U
1,2,4-TRIMETHYLBENZENE	TO15	1,700	8,400	U	1,500	7,600	U	1.1	5.7	U
1,3,5-TRIMETHYLBENZENE	TO15	1,700	8,400	U	1,500	7,600	U	1.1	5.7	U
M,P-XYLENE	TO15	1,700	7,400	U	1,500	6,700	U	1.1	5.0	U
O-XYLENE	TO15	1,700	7,400	U	1,500	6,700	U	1.1	5.0	U
CYCLOHEXANE	TO15	6,700	24,000	U	6,100	21,000	U	4.6	16	U
CYCLOPENTANE	TO15	6,700	20,000	U	6,100	18,000	U	4.6	13	U
2,2-DIMETHYLBUTANE	TO15	6,700	24,000	U	6,100	22,000	U	4.6	16	U
2,3-DIMETHYLBUTANE	TO15	14,000	51,000		56,000	200,000		12	43	
2,3-DIMETHYLPENTANE	TO15	12,000	50,000		13,000	53,000		9.3	39	
2,4-DIMETHYLPENTANE	TO15	6,900	29,000		7,100	30,000		6.2	26	
HEPTANE	TO15	6,700	28,000	U	6,100	25,000	U	4.6	19	U
HEXANE	TO15	6,700	24,000	U	6,200	22,000		4.6	16	U
ISOPRENE	TO15	6,700	19,000	U	6,100	17,000	U	4.6	13	U
CUMENE	TO15	6,700	34,000	U	6,100	30,000	U	4.6	23	U
ISOPENTANE	TO15	220,000	670,000		240,000	720,000		160.0	490	
METHYLCYLOHEXANE	TO15	6,700	27,000	U	6,100	25,000	U	4.6	19	U
METHYLCYCLOPENTANE	TO15	6,700	24,000	U	6,100	21,000	U	5.6	20	
2-METHYLHEPTANE	TO15	6,700	32,000	U	6,100	29,000	U	4.6	22	U
3-METHYLHEPTANE	TO15	6,700	32,000	U	6,100	29,000	U	4.6	22	U
2-METHYLHEXANE	TO15	6,700	28,000	U	6,100	25,000	U	4.6	19	U
3-METHYLHEXANE	TO15	6,700	28,000	U	6,100	25,000	U	4.6	19	U
2-METHYLPENTANE	TO15	26,000	92,000		6,100	22,000	U	20	72	
3-METHYLPENTANE	TO15	23,000	81,000		27,000	98,000		20	71	
NONANE	TO15	6,700	36,000	U	6,100	32,000	U	4.6	24	U
OCTANE	TO15	6,700	32,000	U	6,100	29,000	U	4.6	22	U
PENTANE	TO15	50,000	150,000		49,000	150,000		19	57	
1-PENTENE	TO15	6,700	20,000	U	6,100	18,000	U	4.6	13	U
CIS-2-PENTENE	TO15	6,700	20,000	U	6,100	18,000	U	4.6	13	U
TRANS-2-PENTENE	TO15	6,700	20,000	U	6,100	18,000	U	4.6	13	U
PROPYLBENZENE	TO15	6,700	34,000	U	6,100	30,000	U	4.6	23	U
2,2,4-TRIMETHYLPENTANE	TO15	7,200	34,000		8,200	39,000		11	53	
2,3,4-TRIMETHYLPENTANE	TO15	6,700	32,000	U	6,100	29,000	U	4.6	22	U
1-HEXENE	TO15	6,700	24,000	U	6,100	21,000	U	4.6	16	U
3-ETHYLTOLUENE	TO15	6,700	34,000	U	6,100	30,000	U	4.6	23	U
4-ETHYLTOLUENE	TO15	6,700	34,000	U	6,100	30,000	U	4.6	23	U
2-ETHYLTOLUENE	TO15	6,700	34,000	U	6,100	30,000	U	4.6	23	U
DECANE	TO15	6,700	40,000	U	6,100	36,000	U	4.6	27	U
1,2,3-TRIMETHYLBENZENE	TO15	6,700	34,000	U	6,100	30,000	U	4.6	23	U
1,3-DIETHYLBENZENE	TO15	6,700	37,000	U	6,100	34,000	U	4.6	25	U
1,4-DIETHYLBENZENE	TO15	6,700	37,000	U	6,100	34,000	U	4.6	25	U
UNDECANE	TO15	6,700	44,000	U	6,100	40,000	U	4.6	30	U
CIS-2-HEXENE	TO15	17,000	59,000	U	15,000	53,000	U	11	40	U
TRANS-2-HEXENE	TO15	17,000	59,000	U	15,000	53,000	U	11	40	U
ALPHA-PINENE	TO15	17,000	95,000	U	15,000	86,000	U	11	64	U
BETA-PINENE	TO15	17,000	95,000	U	15,000	86,000	U	11	64	U
CYCLOPENTENE	TO15	6,700	19,000	U	6,100	17,000	U	4.6	13	U
1-UNDECENE	TO15	17,000	110,000	U	15,000	97,000	U	11	73	U
1-DECENE	TO15	17,000	98,000	U	15,000	89,000	U	11	66	U
1-NONENE	TO15	6,700	35,000	U	6,100	32,000	U	4.6	24	U
1-OCTENE	TO15	6,700	31,000	U	6,100	28,000	U	4.6	21	U
1-HEPTENE	TO15	6,700	27,000	U	6,100	25,000	U	4.6	19	U
1,3-BUTADIENE	TO15	1,700	3,800	U	1,500	3,400	U	1.1	2.6	U
Lab Sample ID		**0403326B-03A**			**0404102D-01A**					
Field Sample ID		**OSLMH**			**033104 B-Sewer**					
BENZENE (Rerun)	TO15	110	370		98	320		--	--	--
Lab Sample ID		**0403326D-03A**			**0404102B-01A**			**0407575E-02A**		
Field Sample ID		**OSLMH**			**033104 B-Sewer**			**072804A8.5A-S**		
ISOBUTANE	TO-14A	32,000	78,000		29,000	70,000		43	100	
BUTANE	TO-14A	120,000	280,000		120,000	290,000		51	120	
1-BUTENE	TO-14A	6,700	16,000	U	6,100	14,000	U	3.4	8.0	U
CIS-2-BUTENE	TO-14A	6,700	16,000	U	6,100	14,000	U	3.4	8.0	U
TRANS-2-BUTENE	TO-14A	6,700	16,000	U	6,100	14,000	U	3.4	8.0	U
ETHENE	TO-14A	84	--	U	76	--	U	8.6	10	U
ETHANE	TO-14A	970	--		1,100	--		10	12	
ACETYLENE	TO-14A	84	--	U	76	--	U	8.6	9.2	U
PROPANE	TO-14A	2,000	--		1,800	--		8.6	16	U
PROPYLENE	TO-14A	84	--	U	76	--	U	8.6	15	U
Lab Sample ID		**0403326C-03A**			**0404102C-01A**			**0407575C-02A**		
Field Sample ID		**OSLMH**			**033104 B-Sewer**			**072804A8.5A-S**		
Compound	**Method**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**
METHANE	D1946	0.4	4,000,000	2,700,000	0.44	4,400,000	2,900,000	0.0010	10,000	6,700
OXYGEN	D1946	--	--	--	--	--	--	21	210,000,000	--
CARBON DIOXIDE	D1946	--	--	--	--	--	--	0.037	370,000	--

TABLE 2-3

Summary of Sewer Vapor Analytical Results
Hartford Community Center

Lab Sample ID		**0407575A-03A**			**0407575A-14A**			**0407575A-15A**		
Field Sample ID		**072804A8.5A-D**			**072804A8.5B-S**			**072804A8.5B-D**		
Sample Date		**28-Jul-04**			**28-Jul-04**			**28-Jul-04**		
Sample Type		**Sewer Vapor**			**Sewer Vapor**			**Sewer Vapor**		
Sample Container		**Grab 6-Liter Summa Canister**			**Grab 6-Liter Summa Canister**			**Grab 6-Liter Summa Canister**		
Sample Description		**Manhole A8.5A (ENSR Name WAE or Manhole E) - Deep Sample**			**Manhole A8.5B (ENSR Name WAC or Manhole D) - Shallow Sample**			**Manhole A8.5B (ENSR Name WAC or Manhole D) - Deep Sample**		
Compound	**Method**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**
BENZENE	TO15	2.0	6.6	U	150	500	U	240	770	U
ETHYL BENZENE	TO15	2.0	8.9	U	150	680	U	240	1,000	U
STYRENE (MONOMER)	TO15	2.0	8.8	U	150	670	U	240	1,000	U
TOLUENE	TO15	2.0	7.8	U	150	590	U	240	910	U
1,2,4-TRIMETHYLBENZENE	TO15	2.0	10.0	U	150	770	U	240	1,200	U
1,3,5-TRIMETHYLBENZENE	TO15	2.0	10.0	U	150	770	U	240	1,200	U
M,P-XYLENE	TO15	2.0	8.9	U	150	680	U	240	1,000	U
O-XYLENE	TO15	2.0	8.9	U	150	680	U	240	1,000	U
CYCLOHEXANE	TO15	8.1	28	U	620	2,200	U	950	3,300	U
CYCLOPENTANE	TO15	8.1	24	U	620	1,800	U	950	2,800	U
2,2-DIMETHYLBUTANE	TO15	8.0	28	J	650	2,300		930	3,300	J
2,3-DIMETHYLBUTANE	TO15	22	81		1,900	6,900		2,700	9,600	
2,3-DIMETHYLPENTANE	TO15	18	73		1,400	6,000		1,800	7,600	
2,4-DIMETHYLPENTANE	TO15	12	50		920	3,800		1,300	5,400	
HEPTANE	TO15	8.1	34	U	620	2,600	U	950	4,000	U
HEXANE	TO15	8.1	29	U	620	2,200	U	950	3,400	U
ISOPRENE	TO15	8.1	23	U	620	1,800	U	950	2,700	U
CUMENE	TO15	8.1	40	U	620	3,100	U	950	4,800	U
ISOPENTANE	TO15	310	940		25,000	75,000		37,000	110,000	
METHYLCYLOHEXANE	TO15	8.1	33	U	620	2,500	U	950	3,900	U
METHYLCYCLOPENTANE	TO15	10	35		620	2,200	U	950	3,300	U
2-METHYLHEPTANE	TO15	8.1	38	U	620	2,900	U	950	4,500	U
3-METHYLHEPTANE	TO15	8.1	38	U	620	2,900	U	950	4,500	U
2-METHYLHEXANE	TO15	8.1	34	U	620	2,600	U	950	4,000	U
3-METHYLHEXANE	TO15	8.1	34	U	620	2,600	U	950	4,000	U
2-METHYLPENTANE	TO15	35	130		1,100	4,100		1,800	6,300	
3-METHYLPENTANE	TO15	36	130		3,100	11,000		4,200	15,000	
NONANE	TO15	8.1	43	U	620	3,300	U	950	5,100	U
OCTANE	TO15	8.1	38	U	620	2,900	U	950	4,500	U
PENTANE	TO15	35	100		640	1,900		1,000	3,000	
1-PENTENE	TO15	8.1	24	U	620	1,800	U	950	2,800	U
CIS-2-PENTENE	TO15	8.1	24	U	620	1,800	U	950	2,800	U
TRANS-2-PENTENE	TO15	8.1	24	U	620	1,800	U	950	2,800	U
PROPYLBENZENE	TO15	8.1	40	U	620	3,100	U	950	4,800	U
2,2,4-TRIMETHYLPENTANE	TO15	21	99		1,600	7,500		2,000	9,600	
2,3,4-TRIMETHYLPENTANE	TO15	8.1	38	U	620	2,900	U	950	4,500	U
1-HEXENE	TO15	8.1	28	U	620	2,200	U	950	3,300	U
3-ETHYLTOLUENE	TO15	8.1	40	U	620	3,100	U	950	4,800	U
4-ETHYLTOLUENE	TO15	8.1	40	U	620	3,100	U	950	4,800	U
2-ETHYLTOLUENE	TO15	8.1	40	U	620	3,100	U	950	4,800	U
DECANE	TO15	8.1	48	U	620	3,600	U	950	5,600	U
1,2,3-TRIMETHYLBENZENE	TO15	8.1	40	U	620	3,100	U	950	4,800	U
1,3-DIETHYLBENZENE	TO15	8.1	45	U	620	3,400	U	950	5,300	U
1,4-DIETHYLBENZENE	TO15	8.1	45	U	620	3,400	U	950	5,300	U
UNDECANE	TO15	8.1	53	U	620	4,000	U	950	6,200	U
CIS-2-HEXENE	TO15	20	71	U	1,500	5,400	U	2,400	8,300	U
TRANS-2-HEXENE	TO15	20	71	U	1,500	5,400	U	2,400	8,300	U
ALPHA-PINENE	TO15	20	110	U	1,500	8,700	U	2,400	14,000	U
BETA-PINENE	TO15	20	110	U	1,500	8,800	U	2,400	14,000	U
CYCLOPENTENE	TO15	8.1	23	U	620	1,800	U	950	2,700	U
1-UNDECENE	TO15	20	130	U	1,500	9,900	U	2,400	15,000	U
1-DECENE	TO15	20	120	U	1,500	9,000	U	2,400	14,000	U
1-NONENE	TO15	8.1	42	U	620	3,200	U	950	5,000	U
1-OCTENE	TO15	8.1	38	U	620	2,900	U	950	4,400	U
1-HEPTENE	TO15	8.1	33	U	620	2,500	U	950	3,900	U
1,3-BUTADIENE	TO15	2.0	4.6	U	150	350	U	240	540	U
Lab Sample ID										
Field Sample ID										
BENZENE (Rerun)	TO15	--	--	--	--	--	--	--	--	--
Lab Sample ID		**0407575E-03A**			**0407575E-14A**			**0407575E-15A**		
Field Sample ID		**072804A8.5A-D**			**072804A8.5B-S**			**072804A8.5B-D**		
ISOBUTANE	TO-14A	77	190		7,000	17,000		11,000	26,000	
BUTANE	TO-14A	93	220		2,200	5,200		3,600	8,700	
1-BUTENE	TO-14A	3.0	7.1	U	4.0	9.4	U	4.0	9.3	
CIS-2-BUTENE	TO-14A	3.0	7.1	U	4.0	9.4	U	3.6	8.4	U
TRANS-2-BUTENE	TO-14A	3.0	7.1	U	4.0	9.4	U	3.6	8.4	U
ETHENE	TO-14A	7.6	8.9	U	10	12	U	9.0	10	U
ETHANE	TO-14A	11	13		240	300		350	430	
ACETYLENE	TO-14A	7.6	8.2	U	10	11	U	9	9.7	U
PROPANE	TO-14A	7.6	14	U	200	370		280	520	
PROPYLENE	TO-14A	7.6	13	U	10	18	U	9.0	16	U
Lab Sample ID		**0407575C-03A**			**0407575C-14A**			**0407575C-15A**		
Field Sample ID		**072804A8.5A-D**			**072804A8.5B-S**			**072804A8.5B-D**		
Compound	**Method**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**
METHANE	D1946	0.0018	18,000	12,000	0.097	970,000	650,000	0.16	1,600,000	1,100,000
OXYGEN	D1946	21	210,000,000	--	21	210,000,000	--	21	210,000,000	--
CARBON DIOXIDE	D1946	0.038	380,000	--	0.14	1,400,000	--	0.18	1,800,000	--

TABLE 2-3

Summary of Sewer Vapor Analytical Results
Hartford Community Center

Lab Sample ID		**0407575A-04A**			**0407575A-17A**		
Field Sample ID		**072804A9-S**			**072804A9-D**		
Sample Date		**28-Jul-04**			**28-Jul-04**		
Sample Type		**Sewer Vapor**			**Sewer Vapor**		
Sample Container		**Grab 6-Liter Summa Canister**			**Grab 6-Liter Summa Canister**		
Sample Description		**Manhole A9 (ENSR Name OSL-N or Manhole B) - Shallow Sample**			**Manhole A9 (ENSR Name OSL-N or Manhole B) - Deep Sample**		
Compound	**Method**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**
BENZENE	TO15	78	250	U	110	350	U
ETHYL BENZENE	TO15	78	340	U	110	470	U
STYRENE (MONOMER)	TO15	78	340	U	110	460	U
TOLUENE	TO15	78	300	U	110	410	U
1,2,4-TRIMETHYLBENZENE	TO15	78	390	U	110	540	U
1,3,5-TRIMETHYLBENZENE	TO15	78	390	U	110	540	U
M,P-XYLENE	TO15	78	340	U	110	470	U
O-XYLENE	TO15	78	340	U	110	470	U
CYCLOHEXANE	TO15	310	1,100	U	430	1,500	U
CYCLOPENTANE	TO15	310	900	U	430	1,200	U
2,2-DIMETHYLBUTANE	TO15	310	1,100	U	460	1,700	
2,3-DIMETHYLBUTANE	TO15	810	2,900		1,600	5,800	
2,3-DIMETHYLPENTANE	TO15	660	2,700		1,300	5,300	
2,4-DIMETHYLPENTANE	TO15	400	1,600		760	3,200	
HEPTANE	TO15	310	1,300	U	430	1,800	U
HEXANE	TO15	310	1,100	U	560	2,000	
ISOPRENE	TO15	310	880	U	430	1,200	U
CUMENE	TO15	310	1,500	U	430	2,100	U
ISOPENTANE	TO15	8,400	25,000		17,000	51,000	
METHYLCYLOHEXANE	TO15	310	1,300	U	430	1,800	U
METHYLCYCLOPENTANE	TO15	310	1,100	U	540	1,900	
2-METHYLHEPTANE	TO15	310	1,500	U	430	2,000	U
3-METHYLHEPTANE	TO15	310	1,500	U	430	2,000	U
2-METHYLHEXANE	TO15	310	1,300	U	430	1,800	U
3-METHYLHEXANE	TO15	310	1,300	U	430	1,800	U
2-METHYLPENTANE	TO15	1,400	5,000		2,800	10,000	
3-METHYLPENTANE	TO15	1,100	4,100		2,200	8,100	
NONANE	TO15	310	1,600	U	430	2,300	U
OCTANE	TO15	310	1,500	U	430	2,000	U
PENTANE	TO15	1,700	5,000		3,400	10,000	
1-PENTENE	TO15	310	900	U	430	1,200	U
CIS-2-PENTENE	TO15	310	900	U	430	1,200	U
TRANS-2-PENTENE	TO15	310	900	U	430	1,200	U
PROPYLBENZENE	TO15	310	1,500	U	430	2,100	U
2,2,4-TRIMETHYLPENTANE	TO15	620	2,900		1,200	5,600	
2,3,4-TRIMETHYLPENTANE	TO15	310	1,500	U	430	2,000	U
1-HEXENE	TO15	310	1,100	U	430	1,500	U
3-ETHYLTOLUENE	TO15	310	1,500	U	430	2,100	U
4-ETHYLTOLUENE	TO15	310	1,500	U	430	2,100	U
2-ETHYLTOLUENE	TO15	310	1,500	U	430	2,100	U
DECANE	TO15	310	1,800	U	430	2,500	U
1,2,3-TRIMETHYLBENZENE	TO15	310	1,500	U	430	2,100	U
1,3-DIETHYLBENZENE	TO15	310	1,700	U	430	2,400	U
1,4-DIETHYLBENZENE	TO15	310	1,700	U	430	2,400	U
UNDECANE	TO15	310	2,000	U	430	2,800	U
CIS-2-HEXENE	TO15	780	2,700	U	1,100	3,800	U
TRANS-2-HEXENE	TO15	780	2,700	U	1,100	3,800	U
ALPHA-PINENE	TO15	780	4,400	U	1,100	6,100	U
BETA-PINENE	TO15	780	4,400	U	1,100	6,100	U
CYCLOPENTENE	TO15	310	880	U	430	1,200	U
1-UNDECENE	TO15	780	5,000	U	1,100	6,900	U
1-DECENE	TO15	780	4,500	U	1,100	6,300	U
1-NONENE	TO15	310	1,600	U	430	2,200	U
1-OCTENE	TO15	310	1,400	U	430	2,000	U
1-HEPTENE	TO15	310	1,300	U	430	1,800	U
1,3-BUTADIENE	TO15	310	170	U	110	240	U
Lab Sample ID							
Field Sample ID							
BENZENE (Rerun)	TO15	--	--	--	--	--	--
Lab Sample ID		**0407575E-04A**			**0407575E-17A**		
Field Sample ID		**072804A9-S**			**072804A9-D**		
ISOBUTANE	TO-14A	1,800	4,500		3,500	8,400	
BUTANE	TO-14A	5,400	13,000		10,000	25,000	
1-BUTENE	TO-14A	3.3	7.7		6.0	14	
CIS-2-BUTENE	TO-14A	4.0	9.3		7.6	18	
TRANS-2-BUTENE	TO-14A	15	36		30	70	
ETHENE	TO-14A	7.8	9.0	U	8.0	9.4	U
ETHANE	TO-14A	170	210		280	360	
ACETYLENE	TO-14A	7.8	8.4	U	8.0	8.7	U
PROPANE	TO-14A	80	150		150	270	
PROPYLENE	TO-14A	7.8	14	U	8.0	14	U
Lab Sample ID		**0407575C-04A**			**0407575C-17A**		
Field Sample ID		**072804A9-S**			**072804A9-D**		
Compound	**Method**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**
METHANE	D1946	0.040	400,000	270,000	0.074	740,000	490,000
OXYGEN	D1946	21	210,000,000	--	21	210,000,000	--
CARBON DIOXIDE	D1946	0.22	2,200,000	--	0.36	3,600,000	--

TABLE 2-4

Summary of Sewer Gore Sorber Results
Hartford Community Center

Samplers Installed 7/28/04
Samplers Removed 8/19/04

Lab Sample ID		**453506**	**453507**	**453508**	**453509**	**453510**
Field Sample ID		**A8.5A**	**A8.5B**	**A8.5C**	**A9**	**A10**
Sample Date		**19-Aug-04**	**19-Aug-04**	**19-Aug-04**	**19-Aug-04**	**19-Aug-04**
ENSR Manhole Name		**WAE/Manhole E**	**WAC/Manhole D**	**WAW/Manhole C**	**OSL-N/Manhole B**	**RW-HAR/Manhole A**
Sample Description		**W. Arbor and N. Delmar**	**W. Arbor between Old St. Louis Road and N. Delmar**	**W. Arbor and Old St. Louis Road.**	**Old St. Louis Road between W. Arbor and Rand Ave**	**Rand Ave and Old St. Louis Road**
Compound	**MDL**	**ug**	**ug**	**ug**	**ug**	**ug**
Total Petroleum Hydrocarbons	NA	163.38	151.59	183.23	162.82	146.28
BTEX	NA	0.90	0.33	1.22	0.39	0.22
Benzene	0.03	0.52	0.22	0.38	0.18	0.14
Toluene	0.02	0.17	0.03	0.51	0.14	0.03
Ethylbenzene	0.02	0.04	0.03	0.05	bdl	bdl
m,p-Xylene	0.02	0.11	0.03	0.16	0.04	0.03
o-Xylene	0.02	0.06	0.03	0.12	0.04	0.02
Undecane, tridecane & pentadecane	NA	0.35	0.50	0.82	0.69	0.49
Undecane	0.02	0.11	0.23	0.27	0.23	0.21
Tridecane	0.02	0.09	0.13	0.27	0.23	0.13
Pentadecane	0.02	0.15	0.14	0.29	0.23	0.15
1,3,5-Trimethylbenzene & 1,2,4-Trimethylbenzene	NA	0.38	0.31	0.62	0.37	0.52
1,2,4-Trimethylbenzene	0.02	0.24	0.22	0.37	0.22	0.36
1,3,5-Trimethylbenzene	0.02	0.14	0.09	0.26	0.15	0.16
Naphthalene and 2-Methylnaphthalene	NA	0.53	0.44	0.31	0.46	0.79
Naphthalene	0.03	0.17	0.19	0.18	0.21	0.33
2-Methylnaphthalene	0.02	0.36	0.25	0.13	0.25	0.46
Methyl t-butyl ether	0.03	bdl	bdl	bdl	bdl	bdl
Octane	0.02	0.08	0.14	0.16	0.17	0.10

NOTES:
MDL - Method Detection Limit
ug - micrograms
bdl - below detection limit
NA - No mdl is available for combinations of analytes

TABLE 2-5

Summary of Indoor Air Analytical Results
Hartford Community Center

Lab Sample ID		**0404147A-01A**			**0404147A-04A**			**0404147A-06A**		
Field Sample ID		**040604CC-1C**			**040604CC-1A**			**040604CC-1B**		
Sample Date		**06-Apr-04**			**06-Apr-04**			**06-Apr-04**		
Sample Type		**Indoor Air**			**Indoor Air**			**Indoor Air**		
Sample Container		**24-Hour 6-Liter Summa Canister**			**24-Hour 6-Liter Summa Canister**			**24-Hour 6-Liter Summa Canister**		
Sample Description		**Hartford Community Center. Indoor air sample at hallway leading to evidence storage room.**			**Hartford Community Center. Indoor air sample from middle of cafeteria, 5 ft above floor.**			**Hartford Community Center. Indoor air sample from floor of pipe chase/storage room at east end of cafeteria.**		
Compound	**Method**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**
BENZENE	TO15	--	--	--	--	--	--	--	--	--
ETHYL BENZENE	TO15	47	210	U	17	75	U	22	99	U
STYRENE (MONOMER)	TO15	47	200	U	17	74	U	22	97	U
TOLUENE	TO15	47	180	U	17	65	U	22	86	U
1,2,4-TRIMETHYLBENZENE	TO15	47	230	U	17	85	U	22	110	U
1,3,5-TRIMETHYLBENZENE	TO15	47	230	U	17	85	U	22	110	U
M,P-XYLENE	TO15	47	210	U	17	75	U	22	99	U
O-XYLENE	TO15	47	210	U	17	75	U	22	99	U
BUTANE	TO15	3,700	9,000		2,000	4,800		1,900	4,600	
1-BUTENE	TO15	190	440	U	68	160	U	90	210	U
CIS-2-BUTENE	TO15	190	440	U	68	160	U	90	210	U
TRANS-2-BUTENE	TO15	190	440	U	68	160	U	90	210	U
CYCLOHEXANE	TO15	190	650	U	68	240	U	90	310	U
CYCLOPENTANE	TO15	190	540	U	68	200	U	90	260	U
2,2-DIMETHYLBUTANE	TO15	190	670	U	68	240	U	90	320	U
2,3-DIMETHYLBUTANE	TO15	380	1,400		160	560		180	660	
2,3-DIMETHYLPENTANE	TO15	300	1,200		110	440		140	600	
2,4-DIMETHYLPENTANE	TO15	190	790		72	300		95	400	
HEPTANE	TO15	190	780	U	68	280	U	90	370	U
HEXANE	TO15	190	670	U	68	240	U	90	320	U
ISOPRENE	TO15	190	530	U	68	190	U	90	250	U
CUMENE	TO15	190	930	U	68	340	U	90	450	U
ISOPENTANE	TO15	7,300	22,000		3,200	9,400		3,400	10,000	
METHYLCYLOHEXANE	TO15	190	760	U	68	280	U	90	360	U
METHYLCYCLOPENTANE	TO15	250	880		110	400		140	490	
2-METHYLHEPTANE	TO15	190	890	U	68	320	U	90	420	U
3-METHYLHEPTANE	TO15	190	890	U	68	320	U	90	420	U
2-METHYLHEXANE	TO15	190	780	U	68	280	U	90	370	U
3-METHYLHEXANE	TO15	190	780	U	68	280	U	90	370	U
2-METHYLPENTANE	TO15	840	3,000		390	1,400		440	1,600	
3-METHYLPENTANE	TO15	770	2,800		300	1,100		370	1,300	
ISOBUTANE	TO15	1,700	4,100		700	1,700		820	2,000	
NONANE	TO15	190	1,000	U	68	360	U	90	480	U
OCTANE	TO15	190	890	U	68	320	U	90	420	U
PENTANE	TO15	1,600	4,700		720	2,200		650	2,000	
1-PENTENE	TO15	190	540	U	68	200	U	90	260	U
CIS-2-PENTENE	TO15	190	540	U	68	200	U	90	260	U
TRANS-2-PENTENE	TO15	190	540	U	68	200	U	90	260	U
PROPYLBENZENE	TO15	190	930	U	68	340	U	90	450	U
2,2,4-TRIMETHYLPENTANE	TO15	240	1,200		88	420		130	600	
2,3,4-TRIMETHYLPENTANE	TO15	190	890	U	68	320	U	90	420	U
1-HEXENE	TO15	190	650	U	68	240	U	90	310	U
3-ETHYLTOLUENE	TO15	190	930	U	68	340	U	90	450	U
4-ETHYLTOLUENE	TO15	190	930	U	68	340	U	90	450	U
2-ETHYLTOLUENE	TO15	190	930	U	68	340	U	90	450	U
DECANE	TO15	190	1,100	U	68	400	U	90	530	U
1,2,3-TRIMETHYLBENZENE	TO15	190	930	U	68	340	U	90	450	U
1,3-DIETHYLBENZENE	TO15	190	1,000	U	68	380	U	90	500	U
1,4-DIETHYLBENZENE	TO15	190	1,000	U	68	380	U	90	500	U
UNDECANE	TO15	190	1,200	U	68	440	U	90	580	U
CIS-2-HEXENE	TO15	470	1,600	U	170	600	U	220	780	U
TRANS-2-HEXENE	TO15	470	1,600	U	170	600	U	220	780	U
ALPHA-PINENE	TO15	470	2,600	U	170	970	U	220	1,300	U
BETA-PINENE	TO15	470	2,600	U	170	970	U	220	1,300	U
CYCLOPENTENE	TO15	190	530	U	68	190	U	90	250	U
1-UNDECENE	TO15	470	3,000	U	170	1,100	U	220	1,400	U
1-DECENE	TO15	470	2,700	U	170	1,000	U	220	1,300	U
1-NONENE	TO15	190	980	U	68	360	U	90	470	U
1-OCTENE	TO15	190	870	U	68	320	U	90	420	U
1-HEPTENE	TO15	190	760	U	68	280	U	90	360	U
1,3-BUTADIENE	TO15	47	100	U	17	38	U	22	50	U
Lab Sample ID		**0404147D-01A**			**0404147D-04A**			**0404147D-06A**		
Field Sample ID		**040604CC-1C**			**040604CC-1A**			**040604CC-1B**		
BENZENE (Rerun)	TO15	49	160		30	98		41	130	
Lab Sample ID		**0404147B-01A**			**0404147B-04A**			**0404147B-06A**		
Field Sample ID		**040604CC-1C**			**040604CC-1A**			**040604CC-1B**		
ETHANE	M@82	94	--	U	86	--	U	90	--	U
ETHYLENE	M@82	94	--	U	86	--	U	90	--	U
ACETYLENE	M@82	94	--	U	86	--	U	90	--	U
PROPANE	M@82	94	--	U	86	--	U	90	--	U
PROPYLENE	M@82	94	--	U	86	--	U	90	--	U
Lab Sample ID		**0404147C-01A**			**0404147C-04A**			**0404147C-06A**		
Field Sample ID		**040604CC-1C**			**040604CC-1A**			**040604CC-1B**		
Compound	**Method**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**
METHANE	D1946	0.021	210,000	140,000	0.01	100,000	67,000	0.012	120,000	80,000

TABLE 2-5

Summary of Indoor Air Analytical Results
Hartford Community Center

Lab Sample ID		**0404147A-07A**			**0404147A-08A**			**0404147A-09A**		
Field Sample ID		**040604CC-2B**			**040604CC-10C**			**040604CC-2A**		
Sample Date		**06-Apr-04**			**06-Apr-04**			**06-Apr-04**		
Sample Type		**Indoor Air**			**Indoor Air**			**Indoor Air**		
Sample Container		**24-Hour 6-Liter Summa Canister**			**24-Hour 6-Liter Summa Canister**			**24-Hour 6-Liter Summa Canister**		
Sample Description		**Hartford Community Center. Indoor air sample top of bleachers at northeast corner of gymnasium.**			**Hartford Community Center. Indoor air sample hallway leading to evidence storage room.**			**Hartford Community Center. Indoor air sample west end of gymnasium on performance stage.**		
Compound	**Method**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**
BENZENE	TO15	--	--	--	--	--	--	--	--	--
ETHYL BENZENE	TO15	2.1	9.5	U	44	190	U	2.3	10	U
STYRENE (MONOMER)	TO15	2.1	9.3	U	44	190	U	2.3	9.9	U
TOLUENE	TO15	2.3	8.9		44	170	U	2.3	8.7	U
1,2,4-TRIMETHYLBENZENE	TO15	2.1	11	U	44	220	U	2.3	11	U
1,3,5-TRIMETHYLBENZENE	TO15	2.1	11	U	44	220	U	2.3	11	U
M,P-XYLENE	TO15	2.1	9.5	U	44	190	U	2.3	10	U
O-XYLENE	TO15	2.1	9.5	U	44	190	U	2.3	10	U
BUTANE	TO15	210	520		3,400	8,300		200	470	
1-BUTENE	TO15	8.6	20	U	180	410	U	9.1	21	U
CIS-2-BUTENE	TO15	8.6	20	U	180	410	U	9.1	21	U
TRANS-2-BUTENE	TO15	8.6	20	U	180	410	U	9.1	21	U
CYCLOHEXANE	TO15	8.6	30	U	180	610	U	9.1	32	U
CYCLOPENTANE	TO15	8.6	25	U	180	510	U	9.1	26	U
2,2-DIMETHYLBUTANE	TO15	8.6	31	U	180	630	U	9.1	33	U
2,3-DIMETHYLBUTANE	TO15	17	61		340	1,200		16	56	
2,3-DIMETHYLPENTANE	TO15	11	46		250	1,000		9.7	40	
2,4-DIMETHYLPENTANE	TO15	8.6	36	U	180	730	U	9.1	38	U
HEPTANE	TO15	8.6	36	U	180	730	U	9.1	38	U
HEXANE	TO15	13	48		180	630	U	12	44	
ISOPRENE	TO15	8.6	24	U	180	500	U	9.1	26	U
CUMENE	TO15	8.6	43	U	180	870	U	9.1	46	U
ISOPENTANE	TO15	350	1000		6,700	20,000		320	960	
METHYLCYLOHEXANE	TO15	8.6	35	U	180	710	U	9.1	37	U
METHYLCYCLOPENTANE	TO15	12	41		220	780		11	38	
2-METHYLHEPTANE	TO15	8.6	41	U	180	830	U	9.1	43	U
3-METHYLHEPTANE	TO15	8.6	41	U	180	830	U	9.1	43	U
2-METHYLHEXANE	TO15	8.6	36	U	180	730	U	9.1	38	U
3-METHYLHEXANE	TO15	8.6	36	U	180	730	U	9.1	38	U
2-METHYLPENTANE	TO15	47	170		750	2,700		43	150	
3-METHYLPENTANE	TO15	34	120		680	2,400		30	100	
ISOBUTANE	TO15	71	170		1,600	3,800		64	150	
NONANE	TO15	8.6	46	U	180	930	U	9.1	49	U
OCTANE	TO15	8.6	41	U	180	830	U	9.1	43	U
PENTANE	TO15	97	290		1,400	4,300		88	260	
1-PENTENE	TO15	8.6	25	U	180	510	U	9.1	26	U
CIS-2-PENTENE	TO15	8.6	25	U	180	510	U	9.1	26	U
TRANS-2-PENTENE	TO15	8.6	25	U	180	510	U	9.1	26	U
PROPYLBENZENE	TO15	8.6	43	U	180	870	U	9.1	46	U
2,2,4-TRIMETHYLPENTANE	TO15	10	50		220	1,000		9.7	46	
2,3,4-TRIMETHYLPENTANE	TO15	8.6	41	U	180	830	U	9.1	43	U
1-HEXENE	TO15	8.6	30	U	180	610	U	9.1	32	U
3-ETHYLTOLUENE	TO15	8.6	43	U	180	870	U	9.1	46	U
4-ETHYLTOLUENE	TO15	8.6	43	U	180	870	U	9.1	46	U
2-ETHYLTOLUENE	TO15	8.6	43	U	180	870	U	9.1	46	U
DECANE	TO15	8.6	51	U	180	1,000	U	9.1	54	U
1,2,3-TRIMETHYLBENZENE	TO15	8.6	43	U	180	870	U	9.1	46	U
1,3-DIETHYLBENZENE	TO15	8.6	48	U	180	970	U	9.1	51	U
1,4-DIETHYLBENZENE	TO15	8.6	48	U	180	980	U	9.1	51	U
UNDECANE	TO15	8.6	56	U	180	1,100	U	9.1	59	U
CIS-2-HEXENE	TO15	21	75	U	440	1,500	U	23	80	U
TRANS-2-HEXENE	TO15	21	75	U	440	1,500	U	23	80	U
ALPHA-PINENE	TO15	21	120	U	440	2,500	U	23	130	U
BETA-PINENE	TO15	21	120	U	440	2,500	U	23	130	U
CYCLOPENTENE	TO15	8.6	24	U	180	500	U	9.1	26	U
1-UNDECENE	TO15	21	140	U	440	2,800	U	23	140	U
1-DECENE	TO15	21	120	U	440	2,600	U	23	130	U
1-NONENE	TO15	8.6	45	U	180	920	U	9.1	48	U
1-OCTENE	TO15	8.6	40	U	180	820	U	9.1	42	U
1-HEPTENE	TO15	8.6	35	U	180	710	U	9.1	37	U
1,3-BUTADIENE	TO15	2.1	4.8	U	44	98	U	2.3	5.1	U
Lab Sample ID		**0404147D-07A**			**0404147D-08A**			**0404147D-09A**		
Field Sample ID		**040604CC-2B**			**040604CC-10C**			**040604CC-2A**		
BENZENE (Rerun)	TO15	3.8	12		48	160		3.7	12	
Lab Sample ID		**0404147B-07A**			**0404147B-08A**			**0404147B-09A**		
Field Sample ID		**040604CC-2B**			**040604CC-10C**			**040604CC-2A**		
ETHANE	M@82	80	--	U	88	--	U	86	--	U
ETHYLENE	M@82	80	--	U	88	--	U	86	--	U
ACETYLENE	M@82	80	--	U	88	--	U	86	--	U
PROPANE	M@82	80	--	U	88	--	U	86	--	U
PROPYLENE	M@82	80	--	U	88	--	U	86	--	U
Lab Sample ID		**0404147C-07A**			**0404147C-08A**			**0404147C-09A**		
Field Sample ID		**040604CC-2B**			**040604CC-10C**			**040604CC-2A**		
Compound	**Method**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**
METHANE	D1946	0.0011	11,000	7,300	0.021	210,000	140,000	0.0011	11,000	7,300

TABLE 2-5

Summary of Indoor Air Analytical Results
Hartford Community Center

Lab Sample ID		**0406235-01A**			**0406235-02A**			**0406235-03A**		
Field Sample ID		**6/11/04 Womans Locker Room**			**6/11/04 Sanitary Closet**			**6/11/04 Kitchen**		
Sample Date		**11-Jun-04**			**11-Jun-04**			**11-Jun-04**		
Sample Type		**Indoor Air**			**Indoor Air**			**Indoor Air**		
Sample Container		**Grab Tedlar Bag**			**Grab Tedlar Bag**			**Grab Tedlar Bag**		
Sample Description		**Hartford Community Center. Indoor air sample from women's locker room.**			**Hartford Community Center. Indoor air sample from closet in hallway between locker rooms. Closet contains sewer pipe vent stack.**			**Hartford Community Center. Indoor air sample from kitchen area**		
Compound	**Method**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**
BENZENE	TO15	6.9	22		9.8	32		5.8	19	
ETHYL BENZENE	TO15	--	--	--	--	--	--	--	--	--
STYRENE (MONOMER)	TO15	--	--	--	--	--	--	--	--	--
TOLUENE	TO15	--	--	--	--	--	--	--	--	--
1,2,4-TRIMETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
1,3,5-TRIMETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
M,P-XYLENE	TO15	--	--	--	--	--	--	--	--	--
O-XYLENE	TO15	--	--	--	--	--	--	--	--	--
BUTANE	TO15	--	--	--	--	--	--	--	--	--
1-BUTENE	TO15	--	--	--	--	--	--	--	--	--
CIS-2-BUTENE	TO15	--	--	--	--	--	--	--	--	--
TRANS-2-BUTENE	TO15	--	--	--	--	--	--	--	--	--
CYCLOHEXANE	TO15	--	--	--	--	--	--	--	--	--
CYCLOPENTANE	TO15	--	--	--	--	--	--	--	--	--
2,2-DIMETHYLBUTANE	TO15	--	--	--	--	--	--	--	--	--
2,3-DIMETHYLBUTANE	TO15	--	--	--	--	--	--	--	--	--
2,3-DIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
2,4-DIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
HEPTANE	TO15	--	--	--	--	--	--	--	--	--
HEXANE	TO15	--	--	--	--	--	--	--	--	--
ISOPRENE	TO15	--	--	--	--	--	--	--	--	--
CUMENE	TO15	--	--	--	--	--	--	--	--	--
ISOPENTANE	TO15	--	--	--	--	--	--	--	--	--
METHYLCYLOHEXANE	TO15	--	--	--	--	--	--	--	--	--
METHYLCYCLOPENTANE	TO15	--	--	--	--	--	--	--	--	--
2-METHYLHEPTANE	TO15	--	--	--	--	--	--	--	--	--
3-METHYLHEPTANE	TO15	--	--	--	--	--	--	--	--	--
2-METHYLHEXANE	TO15	--	--	--	--	--	--	--	--	--
3-METHYLHEXANE	TO15	--	--	--	--	--	--	--	--	--
2-METHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
3-METHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
ISOBUTANE	TO15	--	--	--	--	--	--	--	--	--
NONANE	TO15	--	--	--	--	--	--	--	--	--
OCTANE	TO15	--	--	--	--	--	--	--	--	--
PENTANE	TO15	--	--	--	--	--	--	--	--	--
1-PENTENE	TO15	--	--	--	--	--	--	--	--	--
CIS-2-PENTENE	TO15	--	--	--	--	--	--	--	--	--
TRANS-2-PENTENE	TO15	--	--	--	--	--	--	--	--	--
PROPYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
2,2,4-TRIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
2,3,4-TRIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
1-HEXENE	TO15	--	--	--	--	--	--	--	--	--
3-ETHYLTOLUENE	TO15	--	--	--	--	--	--	--	--	--
4-ETHYLTOLUENE	TO15	--	--	--	--	--	--	--	--	--
2-ETHYLTOLUENE	TO15	--	--	--	--	--	--	--	--	--
DECANE	TO15	--	--	--	--	--	--	--	--	--
1,2,3-TRIMETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
1,3-DIETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
1,4-DIETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
UNDECANE	TO15	--	--	--	--	--	--	--	--	--
CIS-2-HEXENE	TO15	--	--	--	--	--	--	--	--	--
TRANS-2-HEXENE	TO15	--	--	--	--	--	--	--	--	--
ALPHA-PINENE	TO15	--	--	--	--	--	--	--	--	--
BETA-PINENE	TO15	--	--	--	--	--	--	--	--	--
CYCLOPENTENE	TO15	--	--	--	--	--	--	--	--	--
1-UNDECENE	TO15	--	--	--	--	--	--	--	--	--
1-DECENE	TO15	--	--	--	--	--	--	--	--	--
1-NONENE	TO15	--	--	--	--	--	--	--	--	--
1-OCTENE	TO15	--	--	--	--	--	--	--	--	--
1-HEPTENE	TO15	--	--	--	--	--	--	--	--	--
1,3-BUTADIENE	TO15	--	--	--	--	--	--	--	--	--
Lab Sample ID										
Field Sample ID										
BENZENE (Rerun)	TO15	--	--	--	--	--	--	--	--	--
Lab Sample ID										
Field Sample ID										
ETHANE	M@82	--	--	--	--	--	--	--	--	--
ETHYLENE	M@82	--	--	--	--	--	--	--	--	--
ACETYLENE	M@82	--	--	--	--	--	--	--	--	--
PROPANE	M@82	--	--	--	--	--	--	--	--	--
PROPYLENE	M@82	--	--	--	--	--	--	--	--	--
Lab Sample ID										
Field Sample ID										
Compound	**Method**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**
METHANE	D1946	--	--	--	--	--	--	--	--	--

TABLE 2-5

Summary of Indoor Air Analytical Results
Hartford Community Center

Lab Sample ID		**0406235-04A**			**0406315C-01A**			**0406315C-03A**		
Field Sample ID		**6/11/04 Boiler Room**			**061604-HCC-MSD**			**061604-HCC-CAF-SE Outlet Void Space**		
Sample Date		**11-Jun-04**			**16-Jun-04**			**16-Jun-04**		
Sample Type		**Indoor Air**			**Indoor Air**			**Indoor Air**		
Sample Container		**Grab Tedlar Bag**			**Grab Summa Canister**			**Grab Summa Canister**		
Sample Description		**Hartford Community Center. Indoor air sample from boiler room.**			**Hartford Community Center. 1st floor - Men's bathroom adjacent to floor drain**			**Hartford Community Center Cafeteria - below electrical outlet in SE corner; piece of mortar missing, hole present**		
Compound	**Method**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**
BENZENE	TO15	2.2	7.3		31	100	U	290	940	U
ETHYL BENZENE	TO15	--	--	--	31	140	U	290	1,300	U
STYRENE (MONOMER)	TO15	--	--	--	31	130	U	290	1,200	U
TOLUENE	TO15	--	--	--	31	120	U	290	1,100	U
1,2,4-TRIMETHYLBENZENE	TO15	--	--	--	31	150	U	290	1,400	U
1,3,5-TRIMETHYLBENZENE	TO15	--	--	--	31	150	U	290	1,400	U
M,P-XYLENE	TO15	--	--	--	31	140	U	290	1,300	U
O-XYLENE	TO15	--	--	--	31	140	U	290	1,300	U
BUTANE	TO15	--	--	--	2,200	5,300		7,400	18,000	
1-BUTENE	TO15	--	--	--	120	290	U	1,200	2,700	U
CIS-2-BUTENE	TO15	--	--	--	120	290	U	1,200	2,700	U
TRANS-2-BUTENE	TO15	--	--	--	120	290	U	1,200	2,700	U
CYCLOHEXANE	TO15	--	--	--	120	430	U	1,200	4,000	U
CYCLOPENTANE	TO15	--	--	--	120	360	U	1,200	3,400	U
2,2-DIMETHYLBUTANE	TO15	--	--	--	120	440	U	1,200	4,100	U
2,3-DIMETHYLBUTANE	TO15	--	--	--	260	920		2,300	8,400	
2,3-DIMETHYLPENTANE	TO15	--	--	--	130	550		1,900	7,900	
2,4-DIMETHYLPENTANE	TO15	--	--	--	120	520	U	1,400	5,800	
HEPTANE	TO15	--	--	--	120	520	U	1,200	4,800	U
HEXANE	TO15	--	--	--	120	440	U	1,200	4,100	U
ISOPRENE	TO15	--	--	--	120	350	U	1,200	3,300	U
CUMENE	TO15	--	--	--	120	620	U	1,200	5,800	U
ISOPENTANE	TO15	--	--	--	4,900	15,000		32,000	94,000	
METHYLCYLOHEXANE	TO15	--	--	--	120	510	U	1,200	4,700	U
METHYLCYCLOPENTANE	TO15	--	--	--	150	530		1,200	4,000	U
2-METHYLHEPTANE	TO15	--	--	--	120	590	U	1,200	5,500	U
3-METHYLHEPTANE	TO15	--	--	--	120	590	U	1,200	5,500	U
2-METHYLHEXANE	TO15	--	--	--	120	520	U	1,200	4,800	U
3-METHYLHEXANE	TO15	--	--	--	120	520	U	1,200	4,800	U
2-METHYLPENTANE	TO15	--	--	--	520	1,900		3,100	11,000	
3-METHYLPENTANE	TO15	--	--	--	420	1,500		3,500	12,000	
ISOBUTANE	TO15	--	--	--	1,100	2,600		9,700	23,000	
NONANE	TO15	--	--	--	120	660	U	1,200	6,200	U
OCTANE	TO15	--	--	--	120	590	U	1,200	5,500	U
PENTANE	TO15	--	--	--	970	2,900		1,200	3,500	
1-PENTENE	TO15	--	--	--	120	360	U	1,200	3,400	U
CIS-2-PENTENE	TO15	--	--	--	120	360	U	1,200	3,400	U
TRANS-2-PENTENE	TO15	--	--	--	120	360	U	1,200	3,400	U
PROPYLBENZENE	TO15	--	--	--	120	620	U	1,200	5,800	U
2,2,4-TRIMETHYLPENTANE	TO15	--	--	--	120	590	U	2,000	9,600	
2,3,4-TRIMETHYLPENTANE	TO15	--	--	--	120	590	U	1,200	5,500	U
1-HEXENE	TO15	--	--	--	120	430	U	1,200	4,000	U
3-ETHYLTOLUENE	TO15	--	--	--	120	320	U	1,200	5,800	U
4-ETHYLTOLUENE	TO15	--	--	--	120	320	U	1,200	5,800	U
2-ETHYLTOLUENE	TO15	--	--	--	120	320	U	1,200	5,800	U
DECANE	TO15	--	--	--	120	730	U	1,200	6,800	U
1,2,3-TRIMETHYLBENZENE	TO15	--	--	--	120	620	U	1,200	5,800	U
1,3-DIETHYLBENZENE	TO15	--	--	--	120	690	U	1,200	6,400	U
1,4-DIETHYLBENZENE	TO15	--	--	--	120	690	U	1,200	6,400	U
UNDECANE	TO15	--	--	--	120	800	U	1,200	7,500	U
CIS-2-HEXENE	TO15	--	--	--	310	1,100	U	2,900	10,000	U
TRANS-2-HEXENE	TO15	--	--	--	310	1,100	U	2,900	10,000	U
ALPHA-PINENE	TO15	--	--	--	310	1,800	U	2,900	16,000	U
BETA-PINENE	TO15	--	--	--	310	1,800	U	2,900	16,000	U
CYCLOPENTENE	TO15	--	--	--	120	350	U	1,200	3,300	U
1-UNDECENE	TO15	--	--	--	310	2,000	U	2,900	18,000	U
1-DECENE	TO15	--	--	--	310	1,800	U	2,900	17,000	U
1-NONENE	TO15	--	--	--	120	650	U	1,200	6,000	U
1-OCTENE	TO15	--	--	--	120	580	U	1,200	5,400	U
1-HEPTENE	TO15	--	--	--	120	510	U	1,200	4,700	U
1,3-BUTADIENE	TO15	--	--	--	31	70	U	290	650	U
Lab Sample ID					**0406315A-01A**			**0406315A-03A**		
Field Sample ID					**061604-HCC-MSD**			**061604-HCC-CAF-SE Outlet Void Space**		
BENZENE (Rerun)	TO15	--	--	--	17	55		7.5	24	
Lab Sample ID					**0406315D-01A**			**0406315D-03A**		
Field Sample ID					**061604-HCC-MSD**			**061604-HCC-CAF-SE Outlet Void Space**		
ETHANE	M@82	--	--	--	78	--	U	50	--	U
ETHYLENE	M@82	--	--	--	78	--	U	50	--	U
ACETYLENE	M@82	--	--	--	78	--	U	50	--	U
PROPANE	M@82	--	--	--	78	--	U	91	--	
PROPYLENE	M@82	--	--	--	78	--	U	50	--	U
Lab Sample ID					**0406315E-01A**			**0406315E-03A**		
Field Sample ID					**061604-HCC-MSD**			**061604-HCC-CAF-SE Outlet Void Space**		
Compound	**Method**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**
METHANE	D1946	--	--	--	0.014	140,000	93,000	0.11	1,100,000	730,000

TABLE 2-5

Summary of Indoor Air Analytical Results
Hartford Community Center

Lab Sample ID		**0406343C-02A**			**0406343C-03A**			**0407380-02A**		
Field Sample ID		**061704-HCC-WFD**			**061704-HCC-MSD**			**073004-CC-BR**		
Sample Date		**17-Jun-04**			**17-Jun-04**			**30-Jul-04**		
Sample Type		**Indoor Air**			**Indoor Air**			**Indoor Air**		
Sample Container		**30-min Summa Canister**			**30-min Summa Canister**			**1 L Summa Canister**		
Sample Description		**Hartford Community Center 1st Floor - Women's bathroom adjacent to floor drain.**			**Hartford Community Center 1st Floor - Men's bathroom adjacent to shower drain.**			**Boiler room.**		
Compound	**Method**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**
BENZENE	TO15	18	58		210	680	U	1.90	6.2	
ETHYL BENZENE	TO15	16	68	U	210	930	U	1.60	7.2	U
STYRENE (MONOMER)	TO15	16	67	U	210	910	U	--	--	--
TOLUENE	TO15	16	59	U	210	810	U	1.60	6.3	U
1,2,4-TRIMETHYLBENZENE	TO15	16	77	U	210	1,000	U	1.60	8.2	U
1,3,5-TRIMETHYLBENZENE	TO15	16	77	U	210	1,000	U	1.60	8.2	U
M,P-XYLENE	TO15	16	68	U	210	930	U	1.60	7.2	U
O-XYLENE	TO15	16	68	U	210	930	U	1.60	7.2	U
BUTANE	TO15	1,600	3,900		12,000	28,000		--	--	--
1-BUTENE	TO15	62	140	U	840	2,000	U	--	--	--
CIS-2-BUTENE	TO15	62	140	U	840	2,000	U	--	--	--
TRANS-2-BUTENE	TO15	62	140	U	840	2,000	U	--	--	--
CYCLOHEXANE	TO15	62	220	U	840	2,900	U	--	--	--
CYCLOPENTANE	TO15	62	180	U	840	2,400	U	--	--	--
2,2-DIMETHYLBUTANE	TO15	62	220	U	840	3,000	U	--	--	--
2,3-DIMETHYLBUTANE	TO15	160	590		1,800	6,400		--	--	--
2,3-DIMETHYLPENTANE	TO15	77	320		840	3,500		--	--	--
2,4-DIMETHYLPENTANE	TO15	62	260	U	840	3,500	U	--	--	--
HEPTANE	TO15	62	260	U	840	3,500	U	--	--	--
HEXANE	TO15	62	220	U	840	3,000	U	4.00	14.0	
ISOPRENE	TO15	62	180	U	840	2,400	U	--	--	--
CUMENE	TO15	62	310	U	840	4,200	U	--	--	--
ISOPENTANE	TO15	3,000	9,100		34,000	100,000		490	1500.0	
METHYLCYLOHEXANE	TO15	62	250	U	840	3,400	U	--	--	--
METHYLCYCLOPENTANE	TO15	93	330		840	2,900	U	--	--	--
2-METHYLHEPTANE	TO15	62	290	U	840	4,000	U	--	--	--
3-METHYLHEPTANE	TO15	62	290	U	840	4,000	U	--	--	--
2-METHYLHEXANE	TO15	62	260	U	840	3,500	U	--	--	--
3-METHYLHEXANE	TO15	62	260	U	840	3,500	U	--	--	--
2-METHYLPENTANE	TO15	280	1,000		2,800	9,900		--	--	--
3-METHYLPENTANE	TO15	230	830		2,000	7,300		--	--	--
ISOBUTANE	TO15	850	2,100		8,400	20,000		--	--	--
NONANE	TO15	62	330	U	840	4,500	U	--	--	--
OCTANE	TO15	62	290	U	840	4,000	U	--	--	--
PENTANE	TO15	610	1,800		4,200	12,000		--	--	--
1-PENTENE	TO15	62	180	U	840	2,400	U	--	--	--
CIS-2-PENTENE	TO15	120	340		840	2,400	U	--	--	--
TRANS-2-PENTENE	TO15	62	180	U	840	2,400	U	--	--	--
PROPYLBENZENE	TO15	62	310	U	840	4,200	U	--	--	--
2,2,4-TRIMETHYLPENTANE	TO15	66	310		840	4,000	U	--	--	--
2,3,4-TRIMETHYLPENTANE	TO15	62	290	U	840	4,000	U	--	--	--
1-HEXENE	TO15	62	220	U	840	2,900	U	--	--	--
3-ETHYLTOLUENE	TO15	62	310	U	840	4,200	U	--	--	--
4-ETHYLTOLUENE	TO15	62	310	U	840	4,200	U	--	--	--
2-ETHYLTOLUENE	TO15	62	310	U	840	4,200	U	--	--	--
DECANE	TO15	62	370	U	840	5,000	U	--	--	--
1,2,3-TRIMETHYLBENZENE	TO15	62	310	U	840	4,200	U	--	--	--
1,3-DIETHYLBENZENE	TO15	62	340	U	840	4,700	U	--	--	--
1,4-DIETHYLBENZENE	TO15	62	340	U	840	4,700	U	--	--	--
UNDECANE	TO15	62	400	U	840	5,500	U	--	--	--
CIS-2-HEXENE	TO15	160	540	U	2,100	7,400	U	--	--	--
TRANS-2-HEXENE	TO15	160	540	U	2,100	7,400	U	--	--	--
ALPHA-PINENE	TO15	160	880	U	2,100	12,000	U	--	--	--
BETA-PINENE	TO15	160	880	U	2,100	12,000	U	--	--	--
CYCLOPENTENE	TO15	62	180	U	840	2,400	U	--	--	--
1-UNDECENE	TO15	160	990	U	2,100	13,000	U	--	--	--
1-DECENE	TO15	160	900	U	2,100	12,000	U	--	--	--
1-NONENE	TO15	62	320	U	840	4,400	U	--	--	--
1-OCTENE	TO15	62	290	U	840	3,900	U	--	--	--
1-HEPTENE	TO15	62	250	U	840	3,400	U	--	--	--
1,3-BUTADIENE	TO15	16	35	U	210	470	U	1.60	3.7	U
Lab Sample ID										
Field Sample ID										
BENZENE (Rerun)	TO15	--	--	--	--	--	--	--	--	--
Lab Sample ID		**0406343D-02A**			**0406343D-03A**					
Field Sample ID		**061704-HCC-WFD**			**061704-HCC-MSD**					
ETHANE	M@82	130	--		240	--		--	--	--
ETHYLENE	M@82	78	--	U	79	--	U	--	--	--
ACETYLENE	M@82	78	--	U	79	--	U	--	--	--
PROPANE	M@82	510	--		94	--		--	--	--
PROPYLENE	M@82	290	--		79	--	U	--	--	--
Lab Sample ID		**0406343E-02A**			**0406343E-03A**					
Field Sample ID		**061704-HCC-WFD**			**061704-HCC-MSD**					
Compound	**Method**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**
METHANE	D1946	0.021	210,000	140,000	0.15	1,500,000	1,000,000	--	--	--

TABLE 2-5

Summary of Indoor Air Analytical Results
Hartford Community Center

Lab Sample ID		**0407380-02AA**			**0407380-03A**			**0407380-04A**		
Field Sample ID		**073004-CC-BR Dup**			**073004-CC-C**			**073004-CC-CD**		
Sample Date		**30-Jul-04**			**30-Jul-04**			**30-Jul-04**		
Sample Type		**Indoor Air**			**Indoor Air**			**Indoor Air**		
Sample Container		**1 L Summa Canister**			**1 L Summa Canister**					
Sample Description		**Boiler room.**			**Cafeteria.**			**Cafeteria**		
Compound	**Method**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**
BENZENE	TO15	1.90	6		12.0	39		11.0	35	
ETHYL BENZENE	TO15	0.820	4	U	6.40	28	U	6.40	28	U
STYRENE (MONOMER)	TO15	--	--	--	--	--	--	--	--	--
TOLUENE	TO15	1.60	6		6.40	25	U	6.40	25	U
1,2,4-TRIMETHYLBENZENE	TO15	0.820	4	U	6.40	32	U	6.40	32	U
1,3,5-TRIMETHYLBENZENE	TO15	0.820	4	U	6.40	32	U	6.40	32	U
M,P-XYLENE	TO15	0.820	4	U	6.40	28	U	6.40	28	U
O-XYLENE	TO15	0.820	4	U	6.40	28	U	6.40	28	U
BUTANE	TO15	--	--	--	--	--	--	--	--	--
1-BUTENE	TO15	--	--	--	--	--	--	--	--	--
CIS-2-BUTENE	TO15	--	--	--	--	--	--	--	--	--
TRANS-2-BUTENE	TO15	--	--	--	--	--	--	--	--	--
CYCLOHEXANE	TO15	--	--	--	--	--	--	--	--	--
CYCLOPENTANE	TO15	--	--	--	--	--	--	--	--	--
2,2-DIMETHYLBUTANE	TO15	--	--	--	--	--	--	--	--	--
2,3-DIMETHYLBUTANE	TO15	--	--	--	--	--	--	--	--	--
2,3-DIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
2,4-DIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
HEPTANE	TO15	--	--	--	--	--	--	--	--	--
HEXANE	TO15	4.00	14.000		19.0	67.000		16.0	59.000	
ISOPRENE	TO15	--	--	--	--	--	--	--	--	--
CUMENE	TO15	--	--	--	--	--	--	--	--	--
ISOPENTANE	TO15	490	1,500	E	1,300	3,800		1,200	3,600	
METHYLCYLOHEXANE	TO15	--	--	--	--	--	--	--	--	--
METHYLCYCLOPENTANE	TO15	--	--	--	--	--	--	--	--	--
2-METHYLHEPTANE	TO15	--	--	--	--	--	--	--	--	--
3-METHYLHEPTANE	TO15	--	--	--	--	--	--	--	--	--
2-METHYLHEXANE	TO15	--	--	--	--	--	--	--	--	--
3-METHYLHEXANE	TO15	--	--	--	--	--	--	--	--	--
2-METHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
3-METHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
ISOBUTANE	TO15	--	--	--	--	--	--	--	--	--
NONANE	TO15	--	--	--	--	--	--	--	--	--
OCTANE	TO15	--	--	--	--	--	--	--	--	--
PENTANE	TO15	--	--	--	--	--	--	--	--	--
1-PENTENE	TO15	--	--	--	--	--	--	--	--	--
CIS-2-PENTENE	TO15	--	--	--	--	--	--	--	--	--
TRANS-2-PENTENE	TO15	--	--	--	--	--	--	--	--	--
PROPYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
2,2,4-TRIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
2,3,4-TRIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
1-HEXENE	TO15	--	--	--	--	--	--	--	--	--
3-ETHYLTOLUENE	TO15	--	--	--	--	--	--	--	--	--
4-ETHYLTOLUENE	TO15	--	--	--	--	--	--	--	--	--
2-ETHYLTOLUENE	TO15	--	--	--	--	--	--	--	--	--
DECANE	TO15	--	--	--	--	--	--	--	--	--
1,2,3-TRIMETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
1,3-DIETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
1,4-DIETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
UNDECANE	TO15	--	--	--	--	--	--	--	--	--
CIS-2-HEXENE	TO15	--	--	--	--	--	--	--	--	--
TRANS-2-HEXENE	TO15	--	--	--	--	--	--	--	--	--
ALPHA-PINENE	TO15	--	--	--	--	--	--	--	--	--
BETA-PINENE	TO15	--	--	--	--	--	--	--	--	--
CYCLOPENTENE	TO15	--	--	--	--	--	--	--	--	--
1-UNDECENE	TO15	--	--	--	--	--	--	--	--	--
1-DECENE	TO15	--	--	--	--	--	--	--	--	--
1-NONENE	TO15	--	--	--	--	--	--	--	--	--
1-OCTENE	TO15	--	--	--	--	--	--	--	--	--
1-HEPTENE	TO15	--	--	--	--	--	--	--	--	--
1,3-BUTADIENE	TO15	0.820	2	U	6.40	14	U	6.40	14	U
Lab Sample ID										
Field Sample ID										
BENZENE (Rerun)	TO15	--	--	--	--	--	--	--	--	--
Lab Sample ID										
Field Sample ID										
ETHANE	M@82	--	--	--	--	--	--	--	--	--
ETHYLENE	M@82	--	--	--	--	--	--	--	--	--
ACETYLENE	M@82	--	--	--	--	--	--	--	--	--
PROPANE	M@82	--	--	--	--	--	--	--	--	--
PROPYLENE	M@82	--	--	--	--	--	--	--	--	--
Lab Sample ID										
Field Sample ID										
Compound	**Method**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**
METHANE	D1946	--	--	--	--	--	--	--	--	--

TABLE 2-5

Summary of Indoor Air Analytical Results
Hartford Community Center

Lab Sample ID		**0407380-05A**			**0407380-05AA**			**0408177-07A**		
Field Sample ID		**073004-CC-SR**			**073004-CC-SR Dup**			**081804-HCC-K**		
Sample Date		**30-Jul-04**			**30-Jul-04**			**18-Aug-04**		
Sample Type		**Indoor Air**			**Indoor Air**			**Indoor Air**		
Sample Container								**24 HR - 6 L Summa Canister**		
Sample Description		**Cafeteria Storage Room**			**Cafeteria Storage Room**			**Kitchen**		
Compound	**Method**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**
BENZENE	TO15	68.0	220		69.0	220		20	65	
ETHYL BENZENE	TO15	16.0	71	U	32.0	140	U	0.86	3.8	U
STYRENE (MONOMER)	TO15	--	--	--	--	--	--	--	--	--
TOLUENE	TO15	16.0	62	U	32.0	120	U	1.3	4.9	
1,2,4-TRIMETHYLBENZENE	TO15	16.0	80	U	32.0	160	U	0.86	4.3	U
1,3,5-TRIMETHYLBENZENE	TO15	16.0	80	U	32.0	160	U	0.86	4.3	U
M,P-XYLENE	TO15	16.0	71	U	32.0	140	U	1.6	6.9	
O-XYLENE	TO15	16.0	71	U	32.0	140	U	0.86	3.8	U
BUTANE	TO15	--	--	--	--	--	--	--	--	--
1-BUTENE	TO15	--	--	--	--	--	--	--	--	--
CIS-2-BUTENE	TO15	--	--	--	--	--	--	--	--	--
TRANS-2-BUTENE	TO15	--	--	--	--	--	--	--	--	--
CYCLOHEXANE	TO15	--	--	--	--	--	--	--	--	--
CYCLOPENTANE	TO15	--	--	--	--	--	--	--	--	--
2,2-DIMETHYLBUTANE	TO15	--	--	--	--	--	--	--	--	--
2,3-DIMETHYLBUTANE	TO15	--	--	--	--	--	--	--	--	--
2,3-DIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
2,4-DIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
HEPTANE	TO15	--	--	--	--	--	--	--	--	--
HEXANE	TO15	70.0	250.000		68.0	240.000		40	140	
ISOPRENE	TO15	--	--	--	--	--	--	--	--	--
CUMENE	TO15	--	--	--	--	--	--	--	--	--
ISOPENTANE	TO15	3,700	11,000		3,800	12,000		2,800	8,500	E
METHYLCYLOHEXANE	TO15	--	--	--	--	--	--	--	--	--
METHYLCYCLOPENTANE	TO15	--	--	--	--	--	--	--	--	--
2-METHYLHEPTANE	TO15	--	--	--	--	--	--	--	--	--
3-METHYLHEPTANE	TO15	--	--	--	--	--	--	--	--	--
2-METHYLHEXANE	TO15	--	--	--	--	--	--	--	--	--
3-METHYLHEXANE	TO15	--	--	--	--	--	--	--	--	--
2-METHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
3-METHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
ISOBUTANE	TO15	--	--	--	--	--	--	--	--	--
NONANE	TO15	--	--	--	--	--	--	--	--	--
OCTANE	TO15	--	--	--	--	--	--	--	--	--
PENTANE	TO15	--	--	--	--	--	--	--	--	--
1-PENTENE	TO15	--	--	--	--	--	--	--	--	--
CIS-2-PENTENE	TO15	--	--	--	--	--	--	--	--	--
TRANS-2-PENTENE	TO15	--	--	--	--	--	--	--	--	--
PROPYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
2,2,4-TRIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
2,3,4-TRIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
1-HEXENE	TO15	--	--	--	--	--	--	--	--	--
3-ETHYLTOLUENE	TO15	--	--	--	--	--	--	--	--	--
4-ETHYLTOLUENE	TO15	--	--	--	--	--	--	--	--	--
2-ETHYLTOLUENE	TO15	--	--	--	--	--	--	--	--	--
DECANE	TO15	--	--	--	--	--	--	--	--	--
1,2,3-TRIMETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
1,3-DIETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
1,4-DIETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
UNDECANE	TO15	--	--	--	--	--	--	--	--	--
CIS-2-HEXENE	TO15	--	--	--	--	--	--	--	--	--
TRANS-2-HEXENE	TO15	--	--	--	--	--	--	--	--	--
ALPHA-PINENE	TO15	--	--	--	--	--	--	--	--	--
BETA-PINENE	TO15	--	--	--	--	--	--	--	--	--
CYCLOPENTENE	TO15	--	--	--	--	--	--	--	--	--
1-UNDECENE	TO15	--	--	--	--	--	--	--	--	--
1-DECENE	TO15	--	--	--	--	--	--	--	--	--
1-NONENE	TO15	--	--	--	--	--	--	--	--	--
1-OCTENE	TO15	--	--	--	--	--	--	--	--	--
1-HEPTENE	TO15	--	--	--	--	--	--	--	--	--
1,3-BUTADIENE	TO15	16.0	36	U	32.0	72	U	0.86	1.9	U
Lab Sample ID										
Field Sample ID										
BENZENE (Rerun)	TO15	--	--	--	--	--	--	--	--	--
Lab Sample ID										
Field Sample ID										
ETHANE	M@82	--	--	--	--	--	--	--	--	--
ETHYLENE	M@82	--	--	--	--	--	--	--	--	--
ACETYLENE	M@82	--	--	--	--	--	--	--	--	--
PROPANE	M@82	--	--	--	--	--	--	--	--	--
PROPYLENE	M@82	--	--	--	--	--	--	--	--	--
Lab Sample ID										
Field Sample ID										
Compound	**Method**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**
METHANE	D1946	--	--	--	--	--	--	--	--	--

TABLE 2-5

Summary of Indoor Air Analytical Results
Hartford Community Center

Lab Sample ID		**0408177-07A**			**0408177-08A**			**0408177-08B**		
Field Sample ID		**081804-HCC-K Duplicate**			**081804-HCC-K UWS**			**081804-HCC-K UWS Duplicate**		
Sample Date		**18-Aug-04**			**18-Aug-04**			**18-Aug-04**		
Sample Type		**Indoor Air**			**Indoor Air**			**Indoor Air**		
Sample Container		**24 HR - 6 L Summa Canister**			**24 HR - 6 L Summa Canister**			**24 HR - 6 L Summa Canister**		
Sample Description		**Kitchen - Duplicate**			**Under West Stairs**			**Under West Stairs - Duplicate**		
Compound	**Method**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**
BENZENE	TO15	21	68		5.8	19		33	110	U
ETHYL BENZENE	TO15	8.6	38	U	0.82	3.6	U	33	140	U
STYRENE (MONOMER)	TO15	--	--	--	--	--	--	--	--	--
TOLUENE	TO15	8.6	33	U	0.82	3.1	U	33	120	U
1,2,4-TRIMETHYLBENZENE	TO15	8.6	43	U	0.82	4.1	U	33	160	U
1,3,5-TRIMETHYLBENZENE	TO15	8.6	43	U	0.82	4.1	U	33	160	U
M,P-XYLENE	TO15	8.6	38	U	0.82	3.6	U	33	140	U
O-XYLENE	TO15	8.6	38	U	0.82	3.6	U	33	140	U
BUTANE	TO15	--	--	--	--	--	--	--	--	--
1-BUTENE	TO15	--	--	--	--	--	--	--	--	--
CIS-2-BUTENE	TO15	--	--	--	--	--	--	--	--	--
TRANS-2-BUTENE	TO15	--	--	--	--	--	--	--	--	--
CYCLOHEXANE	TO15	--	--	--	--	--	--	--	--	--
CYCLOPENTANE	TO15	--	--	--	--	--	--	--	--	--
2,2-DIMETHYLBUTANE	TO15	--	--	--	--	--	--	--	--	--
2,3-DIMETHYLBUTANE	TO15	--	--	--	--	--	--	--	--	--
2,3-DIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
2,4-DIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
HEPTANE	TO15	--		--	--		--	--		--
HEXANE	TO15	39	140		0.82	2.9	U	33	120	U
ISOPRENE	TO15	--	--	--	--	--	--	--	--	--
CUMENE	TO15	--	--	--	--	--	--	--	--	--
ISOPENTANE	TO15	2,600	7,800		7,000	21,000	E	6,300	19,000	
METHYLCYLOHEXANE	TO15	--	--	--	--	--	--	--	--	--
METHYLCYCLOPENTANE	TO15	--	--	--	--	--	--	--	--	--
2-METHYLHEPTANE	TO15	--	--	--	--	--	--	--	--	--
3-METHYLHEPTANE	TO15	--	--	--	--	--	--	--	--	--
2-METHYLHEXANE	TO15	--	--	--	--	--	--	--	--	--
3-METHYLHEXANE	TO15	--	--	--	--	--	--	--	--	--
2-METHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
3-METHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
ISOBUTANE	TO15	--	--	--	--	--	--	--	--	--
NONANE	TO15	--	--	--	--	--	--	--	--	--
OCTANE	TO15	--	--	--	--	--	--	--	--	--
PENTANE	TO15	--	--	--	--	--	--	--	--	--
1-PENTENE	TO15	--	--	--	--	--	--	--	--	--
CIS-2-PENTENE	TO15	--	--	--	--	--	--	--	--	--
TRANS-2-PENTENE	TO15	--	--	--	--	--	--	--	--	--
PROPYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
2,2,4-TRIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
2,3,4-TRIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
1-HEXENE	TO15	--	--	--	--	--	--	--	--	--
3-ETHYLTOLUENE	TO15	--	--	--	--	--	--	--	--	--
4-ETHYLTOLUENE	TO15	--	--	--	--	--	--	--	--	--
2-ETHYLTOLUENE	TO15	--	--	--	--	--	--	--	--	--
DECANE	TO15	--	--	--	--	--	--	--	--	--
1,2,3-TRIMETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
1,3-DIETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
1,4-DIETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
UNDECANE	TO15	--	--	--	--	--	--	--	--	--
CIS-2-HEXENE	TO15	--	--	--	--	--	--	--	--	--
TRANS-2-HEXENE	TO15	--	--	--	--	--	--	--	--	--
ALPHA-PINENE	TO15	--	--	--	--	--	--	--	--	--
BETA-PINENE	TO15	--	--	--	--	--	--	--	--	--
CYCLOPENTENE	TO15	--	--	--	--	--	--	--	--	--
1-UNDECENE	TO15	--	--	--	--	--	--	--	--	--
1-DECENE	TO15	--	--	--	--	--	--	--	--	--
1-NONENE	TO15	--	--	--	--	--	--	--	--	--
1-OCTENE	TO15	--	--	--	--	--	--	--	--	--
1-HEPTENE	TO15	--	--	--	--	--	--	--	--	--
1,3-BUTADIENE	TO15	8.6	19	U	0.82	1.8	U	33	74	U
Lab Sample ID										
Field Sample ID										
BENZENE (Rerun)	TO15	--	--	--	--	--	--	--	--	--
Lab Sample ID										
Field Sample ID										
ETHANE	M@82	--	--	--	--	--	--	--	--	--
ETHYLENE	M@82	--	--	--	--	--	--	--	--	--
ACETYLENE	M@82	--	--	--	--	--	--	--	--	--
PROPANE	M@82	--	--	--	--	--	--	--	--	--
PROPYLENE	M@82	--	--	--	--	--	--	--	--	--
Lab Sample ID										
Field Sample ID										
Compound	**Method**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**
METHANE	D1946	--	--	--	--	--	--	--	--	--

TABLE 2-5

Summary of Indoor Air Analytical Results
Hartford Community Center

Lab Sample ID		**0408177-09A**			**0408177-09B**			**0408177-10A**		
Field Sample ID		**081804-HCC-KC**			**081804-HCC-KC Duplicate**			**081804-HCC-BR**		
Sample Date		**18-Aug-04**			**18-Aug-04**			**18-Aug-04**		
Sample Type		**Indoor Air**			**Indoor Air**			**Indoor Air**		
Sample Container		**24 HR - 6 L Summa Canister**			**24 HR - 6 L Summa Canister**			**24 HR - 6 L Summa Canister**		
Sample Description		**Kitchen Closet**			**Kitchen Closet - Duplicate**			**Boiler Room**		
Compound	**Method**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**
BENZENE	TO15	51	170		46	150		1.4	4.6	U
ETHYL BENZENE	TO15	0.95	4.2		35	150	U	1.4	6.3	U
STYRENE (MONOMER)	TO15	--	--	--	--	--	--	--	--	--
TOLUENE	TO15	1.3	4.9		35	130	U	1.4	5.5	U
1,2,4-TRIMETHYLBENZENE	TO15	0.92	4.6		35	170	U	1.4	7.2	U
1,3,5-TRIMETHYLBENZENE	TO15	0.88	4.4	U	35	170	U	1.4	7.2	U
M,P-XYLENE	TO15	2.4	10		35	150	U	1.4	6.3	U
O-XYLENE	TO15	0.88	3.9	U	35	150	U	1.4	6.3	U
BUTANE	TO15	--	--	--	--	--	--	--	--	--
1-BUTENE	TO15	--	--	--	--	--	--	--	--	--
CIS-2-BUTENE	TO15	--	--	--	--	--	--	--	--	--
TRANS-2-BUTENE	TO15	--	--	--	--	--	--	--	--	--
CYCLOHEXANE	TO15	--	--	--	--	--	--	--	--	--
CYCLOPENTANE	TO15	--	--	--	--	--	--	--	--	--
2,2-DIMETHYLBUTANE	TO15	--	--	--	--	--	--	--	--	--
2,3-DIMETHYLBUTANE	TO15	--	--	--	--	--	--	--	--	--
2,3-DIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
2,4-DIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
HEPTANE	TO15	--		--	--		--	--		--
HEXANE	TO15	110	380		93	330.000		2.6	9.2	
ISOPRENE	TO15	--	--	--	--	--	--	--	--	--
CUMENE	TO15	--	--	--	--	--	--	--	--	--
ISOPENTANE	TO15	7,300	22,000	E	7,700	23,000		260	780	
METHYLCYLOHEXANE	TO15	--	--	--	--	--	--	--	--	--
METHYLCYCLOPENTANE	TO15	--	--	--	--	--	--	--	--	--
2-METHYLHEPTANE	TO15	--	--	--	--	--	--	--	--	--
3-METHYLHEPTANE	TO15	--	--	--	--	--	--	--	--	--
2-METHYLHEXANE	TO15	--	--	--	--	--	--	--	--	--
3-METHYLHEXANE	TO15	--	--	--	--	--	--	--	--	--
2-METHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
3-METHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
ISOBUTANE	TO15	--	--	--	--	--	--	--	--	--
NONANE	TO15	--	--	--	--	--	--	--	--	--
OCTANE	TO15	--	--	--	--	--	--	--	--	--
PENTANE	TO15	--	--	--	--	--	--	--	--	--
1-PENTENE	TO15	--	--	--	--	--	--	--	--	--
CIS-2-PENTENE	TO15	--	--	--	--	--	--	--	--	--
TRANS-2-PENTENE	TO15	--	--	--	--	--	--	--	--	--
PROPYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
2,2,4-TRIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
2,3,4-TRIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
1-HEXENE	TO15	--	--	--	--	--	--	--	--	--
3-ETHYLTOLUENE	TO15	--	--	--	--	--	--	--	--	--
4-ETHYLTOLUENE	TO15	--	--	--	--	--	--	--	--	--
2-ETHYLTOLUENE	TO15	--	--	--	--	--	--	--	--	--
DECANE	TO15	--	--	--	--	--	--	--	--	--
1,2,3-TRIMETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
1,3-DIETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
1,4-DIETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
UNDECANE	TO15	--	--	--	--	--	--	--	--	--
CIS-2-HEXENE	TO15	--	--	--	--	--	--	--	--	--
TRANS-2-HEXENE	TO15	--	--	--	--	--	--	--	--	--
ALPHA-PINENE	TO15	--	--	--	--	--	--	--	--	--
BETA-PINENE	TO15	--	--	--	--	--	--	--	--	--
CYCLOPENTENE	TO15	--	--	--	--	--	--	--	--	--
1-UNDECENE	TO15	--	--	--	--	--	--	--	--	--
1-DECENE	TO15	--	--	--	--	--	--	--	--	--
1-NONENE	TO15	--	--	--	--	--	--	--	--	--
1-OCTENE	TO15	--	--	--	--	--	--	--	--	--
1-HEPTENE	TO15	--	--	--	--	--	--	--	--	--
1,3-BUTADIENE	TO15	0.88	2.0	U	35	79	U	1.4	3.2	U
Lab Sample ID										
Field Sample ID										
BENZENE (Rerun)	TO15	--	--	--	--	--	--	--	--	--
Lab Sample ID										
Field Sample ID										
ETHANE	M@82	--	--	--	--	--	--	--	--	--
ETHYLENE	M@82	--	--	--	--	--	--	--	--	--
ACETYLENE	M@82	--	--	--	--	--	--	--	--	--
PROPANE	M@82	--	--	--	--	--	--	--	--	--
PROPYLENE	M@82	--	--	--	--	--	--	--	--	--
Lab Sample ID										
Field Sample ID										
Compound	**Method**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**
METHANE	D1946	--	--	--	--	--	--	--	--	--

TABLE 2-5

Summary of Indoor Air Analytical Results
Hartford Community Center

Lab Sample ID		**0408177-11A**			**0408177-11B**			**0408177-11BB**		
Field Sample ID		**081804-HCC-EH**			**081804-HCC-EH Duplicate**			**081804-HCC-EH Duplicate(2)**		
Sample Date		**18-Aug-04**			**18-Aug-04**			**18-Aug-04**		
Sample Type		**Indoor Air**			**Indoor Air**			**Indoor Air**		
Sample Container		**24 HR - 6 L Summa Canister**			**24 HR - 6 L Summa Canister**			**24 HR - 6 L Summa Canister**		
Sample Description		**Evidence Room Hallway**			**Evidence Room Hallway - Duplicate**			**Evidence Room Hallway - Duplicate Duplicate**		
Compound	**Method**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**
BENZENE	TO15	19	62		18	57	U	20	66	
ETHYL BENZENE	TO15	0.88	3.9	U	18	77	U	18	77	U
STYRENE (MONOMER)	TO15	--	--	--	--	--	--	--	--	--
TOLUENE	TO15	0.88	3.4	U	18	67	U	18	67	U
1,2,4-TRIMETHYLBENZENE	TO15	0.88	4.4	U	18	87	U	18	87	U
1,3,5-TRIMETHYLBENZENE	TO15	0.88	4.4	U	18	87	U	18	87	U
M,P-XYLENE	TO15	0.88	3.9	U	18	77	U	18	77	U
O-XYLENE	TO15	0.88	3.9	U	18	77	U	18	77	U
BUTANE	TO15	--	--	--	--	--	--	--	--	--
1-BUTENE	TO15	--	--	--	--	--	--	--	--	--
CIS-2-BUTENE	TO15	--	--	--	--	--	--	--	--	--
TRANS-2-BUTENE	TO15	--	--	--	--	--	--	--	--	--
CYCLOHEXANE	TO15	--	--	--	--	--	--	--	--	--
CYCLOPENTANE	TO15	--	--	--	--	--	--	--	--	--
2,2-DIMETHYLBUTANE	TO15	--	--	--	--	--	--	--	--	--
2,3-DIMETHYLBUTANE	TO15	--	--	--	--	--	--	--	--	--
2,3-DIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
2,4-DIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
HEPTANE	TO15	--		--	--		--	--		--
HEXANE	TO15	69	250		56	200		60	220	
ISOPRENE	TO15	--	--	--	--	--	--	--	--	--
CUMENE	TO15	--	--	--	--	--	--	--	--	--
ISOPENTANE	TO15	4,700	14,000	E	3,500	10,000		3,500	10,000	
METHYLCYLOHEXANE	TO15	--	--	--	--	--	--	--	--	--
METHYLCYCLOPENTANE	TO15	--	--	--	--	--	--	--	--	--
2-METHYLHEPTANE	TO15	--	--	--	--	--	--	--	--	--
3-METHYLHEPTANE	TO15	--	--	--	--	--	--	--	--	--
2-METHYLHEXANE	TO15	--	--	--	--	--	--	--	--	--
3-METHYLHEXANE	TO15	--	--	--	--	--	--	--	--	--
2-METHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
3-METHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
ISOBUTANE	TO15	--	--	--	--	--	--	--	--	--
NONANE	TO15	--	--	--	--	--	--	--	--	--
OCTANE	TO15	--	--	--	--	--	--	--	--	--
PENTANE	TO15	--	--	--	--	--	--	--	--	--
1-PENTENE	TO15	--	--	--	--	--	--	--	--	--
CIS-2-PENTENE	TO15	--	--	--	--	--	--	--	--	--
TRANS-2-PENTENE	TO15	--	--	--	--	--	--	--	--	--
PROPYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
2,2,4-TRIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
2,3,4-TRIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
1-HEXENE	TO15	--	--	--	--	--	--	--	--	--
3-ETHYLTOLUENE	TO15	--	--	--	--	--	--	--	--	--
4-ETHYLTOLUENE	TO15	--	--	--	--	--	--	--	--	--
2-ETHYLTOLUENE	TO15	--	--	--	--	--	--	--	--	--
DECANE	TO15	--	--	--	--	--	--	--	--	--
1,2,3-TRIMETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
1,3-DIETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
1,4-DIETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
UNDECANE	TO15	--	--	--	--	--	--	--	--	--
CIS-2-HEXENE	TO15	--	--	--	--	--	--	--	--	--
TRANS-2-HEXENE	TO15	--	--	--	--	--	--	--	--	--
ALPHA-PINENE	TO15	--	--	--	--	--	--	--	--	--
BETA-PINENE	TO15	--	--	--	--	--	--	--	--	--
CYCLOPENTENE	TO15	--	--	--	--	--	--	--	--	--
1-UNDECENE	TO15	--	--	--	--	--	--	--	--	--
1-DECENE	TO15	--	--	--	--	--	--	--	--	--
1-NONENE	TO15	--	--	--	--	--	--	--	--	--
1-OCTENE	TO15	--	--	--	--	--	--	--	--	--
1-HEPTENE	TO15	--	--	--	--	--	--	--	--	--
1,3-BUTADIENE	TO15	0.88	2.0	U	18	39	U	18	39	U
Lab Sample ID										
Field Sample ID										
BENZENE (Rerun)	TO15	--	--	--	--	--	--	--	--	--
Lab Sample ID										
Field Sample ID										
ETHANE	M@82	--	--	--	--	--	--	--	--	--
ETHYLENE	M@82	--	--	--	--	--	--	--	--	--
ACETYLENE	M@82	--	--	--	--	--	--	--	--	--
PROPANE	M@82	--	--	--	--	--	--	--	--	--
PROPYLENE	M@82	--	--	--	--	--	--	--	--	--
Lab Sample ID										
Field Sample ID										
Compound	**Method**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**
METHANE	D1946	--	--	--	--	--	--	--	--	--

TABLE 2-5

Summary of Indoor Air Analytical Results
Hartford Community Center

Lab Sample ID		0408176-12A			0408176-12B			0408176-13A		
Field Sample ID		081804-HCC-UWS30			081804-HCC-UWS30			081804-HCC-BR30		
Sample Date		18-Aug-04			18-Aug-04			18-Aug-04		
Sample Type		Indoor Air			Indoor Air			Indoor Air		
Sample Container		30 Minute - 1 L Summa Canister			30 Minute - 1 L Summa Canister			30 Minute - 1 L Summa Canister		
Sample Description		Under West Stairs			Under West Stairs - ReRun			Boiler Room		
Compound	**Method**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**
BENZENE	TO15	4.6	15		15	47	U	1.6	5.0	
ETHYL BENZENE	TO15	0.73	3.2	U	15	64	U	0.72	3.2	U
STYRENE (MONOMER)	TO15	--	--	--	--	--	--	---	--	--
TOLUENE	TO15	0.73	2.8		15	56	U	0.80	3.0	
1,2,4-TRIMETHYLBENZENE	TO15	0.73	3.0	U	15	73	U	0.72	3.6	U
1,3,5-TRIMETHYLBENZENE	TO15	0.73	3.6	U	15	73	U	0.72	3.6	U
M,P-XYLENE	TO15	0.73	3.2	U	15	64	U	0.72	3.2	U
O-XYLENE	TO15	0.73	3.2	U	15	64	U	0.72	3.2	U
BUTANE	TO15	--	--	--	--	--	--	--	--	--
1-BUTENE	TO15	--	--	--	--	--	--	--	--	--
CIS-2-BUTENE	TO15	--	--	--	--	--	--	--	--	--
TRANS-2-BUTENE	TO15	--	--	--	--	--	--	--	--	--
CYCLOHEXANE	TO15	--	--	--	--	--	--	--	--	--
CYCLOPENTANE	TO15	--	--	--	--	--	--	--	--	--
2,2-DIMETHYLBUTANE	TO15	--	--	--	--	--	--	--	--	--
2,3-DIMETHYLBUTANE	TO15	--	--	--	--	--	--	--	--	--
2,3-DIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
2,4-DIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
HEPTANE	TO15	--	--	--	--	--	--	--	--	--
HEXANE	TO15	24	87		30	110		0.72	2.6	U
ISOPRENE	TO15	--	--	--	--	--	--	--	--	--
CUMENE	TO15	--	--	--	--	--	--	--	--	--
ISOPENTANE	TO15	4,500	14,000	E	3,700	11,000		840	2,500	E
METHYLCYLOHEXANE	TO15	--	--	--	--	--	--	--	--	--
METHYLCYCLOPENTANE	TO15	--	--	--	--	--	--	--	--	--
2-METHYLHEPTANE	TO15	--	--	--	--	--	--	--	--	--
3-METHYLHEPTANE	TO15	--	--	--	--	--	--	--	--	--
2-METHYLHEXANE	TO15	--	--	--	--	--	--	--	--	--
3-METHYLHEXANE	TO15	--	--	--	--	--	--	--	--	--
2-METHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
3-METHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
ISOBUTANE	TO15	--	--	--	--	--	--	--	--	--
NONANE	TO15	--	--	--	--	--	--	--	--	--
OCTANE	TO15	--	--	--	--	--	--	--	--	--
PENTANE	TO15	--	--	--	--	--	--	--	--	--
1-PENTENE	TO15	--	--	--	--	--	--	--	--	--
CIS-2-PENTENE	TO15	--	--	--	--	--	--	--	--	--
TRANS-2-PENTENE	TO15	--	--	--	--	--	--	--	--	--
PROPYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
2,2,4-TRIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
2,3,4-TRIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
1-HEXENE	TO15	--	--	--	--	--	--	--	--	--
3-ETHYLTOLUENE	TO15	--	--	--	--	--	--	--	--	--
4-ETHYLTOLUENE	TO15	--	--	--	--	--	--	--	--	--
2-ETHYLTOLUENE	TO15	--	--	--	--	--	--	--	--	--
DECANE	TO15	--	--	--	--	--	--	--	--	--
1,2,3-TRIMETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
1,3-DIETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
1,4-DIETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
UNDECANE	TO15	--	--	--	--	--	--	--	--	--
CIS-2-HEXENE	TO15	--	--	--	--	--	--	--	--	--
TRANS-2-HEXENE	TO15	--	--	--	--	--	--	--	--	--
ALPHA-PINENE	TO15	--	--	--	--	--	--	--	--	--
BETA-PINENE	TO15	--	--	--	--	--	--	--	--	--
CYCLOPENTENE	TO15	--	--	--	--	--	--	--	--	--
1-UNDECENE	TO15	--	--	--	--	--	--	--	--	--
1-DECENE	TO15	--	--	--	--	--	--	--	--	--
1-NONENE	TO15	--	--	--	--	--	--	--	--	--
1-OCTENE	TO15	--	--	--	--	--	--	--	--	--
1-HEPTENE	TO15	--	--	--	--	--	--	--	--	--
1,3-BUTADIENE	TO15	6.4	14		15	33	U	0.72	1.6	U
Lab Sample ID										
Field Sample ID										
BENZENE (Rerun)	TO15	--	--	--	--	--	--	--	--	--
Lab Sample ID										
Field Sample ID										
ETHANE	M@82	--	--	--	--	--	--	--	--	--
ETHYLENE	M@82	--	--	--	--	--	--	--	--	--
ACETYLENE	M@82	--	--	--	--	--	--	--	--	--
PROPANE	M@82	--	--	--	--	--	--	--	--	--
PROPYLENE	M@82	--	--	--	--	--	--	--	--	--
Lab Sample ID										
Field Sample ID										
Compound	**Method**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**
METHANE	D1946	--	--	--	--	--	--	--	--	--

TABLE 2-5

Summary of Indoor Air Analytical Results
Hartford Community Center

Lab Sample ID		**0408176-13B**			**0408176-14A**			**0408176-14B**		
Field Sample ID		**081804-HCC-BR30**			**081804-HCC-BR30-D**			**081804-HCC-BR30-D**		
Sample Date		**18-Aug-04**			**18-Aug-04**			**18-Aug-04**		
Sample Type		**Indoor Air**			**Indoor Air**			**Indoor Air**		
Sample Container		**30 Minute - 1 L Summa Canister**			**30 Minute - 1 L Summa Canister**			**30 Minute - 1 L Summa Canister**		
Sample Description		**Boiler Room - ReRun**			**Boiler Room Field Duplicate**			**Boiler Room Field Duplicate - ReRun**		
Compound	**Method**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**
BENZENE	TO15	2.9	9.4	U	1.3	4.2		2.9	10	U
ETHYL BENZENE	TO15	2.9	13	U	0.73	3.2	U	2.9	13	U
STYRENE (MONOMER)	TO15	--	--	--	---	--	--	--	--	--
TOLUENE	TO15	2.9	11	U	0.76	2.9		2.9	11	U
1,2,4-TRIMETHYLBENZENE	TO15	2.9	14	U	0.73	3.6	U	2.9	14	U
1,3,5-TRIMETHYLBENZENE	TO15	2.9	14	U	0.73	3.6	U	2.9	14	U
M,P-XYLENE	TO15	2.9	13	U	0.73	3.2	U	2.9	13	U
O-XYLENE	TO15	2.9	13	U	0.73	3.2	U	2.9	13	U
BUTANE	TO15	--	--	--	--	--	--	--	--	--
1-BUTENE	TO15	--	--	--	--	--	--	--	--	--
CIS-2-BUTENE	TO15	--	--	--	--	--	--	--	--	--
TRANS-2-BUTENE	TO15	--	--	--	--	--	--	--	--	--
CYCLOHEXANE	TO15	--	--	--	--	--	--	--	--	--
CYCLOPENTANE	TO15	--	--	--	--	--	--	--	--	--
2,2-DIMETHYLBUTANE	TO15	--	--	--	--	--	--	--	--	--
2,3-DIMETHYLBUTANE	TO15	--	--	--	--	--	--	--	--	--
2,3-DIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
2,4-DIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
HEPTANE	TO15	--	--	--	--	--	--	--	--	--
HEXANE	TO15	2.9	10	U	0.73	2.600	U	2.9	10.000	U
ISOPRENE	TO15	--	--	--	--	--	--	--	--	--
CUMENE	TO15	--	--	--	--	--	--	--	--	--
ISOPENTANE	TO15	760	2,300		790	2,400	E	690	2,100	
METHYLCYLOHEXANE	TO15	--	--	--	--	--	--	--	--	--
METHYLCYCLOPENTANE	TO15	--	--	--	--	--	--	--	--	--
2-METHYLHEPTANE	TO15	--	--	--	--	--	--	--	--	--
3-METHYLHEPTANE	TO15	--	--	--	--	--	--	--	--	--
2-METHYLHEXANE	TO15	--	--	--	--	--	--	--	--	--
3-METHYLHEXANE	TO15	--	--	--	--	--	--	--	--	--
2-METHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
3-METHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
ISOBUTANE	TO15	--	--	--	--	--	--	--	--	--
NONANE	TO15	--	--	--	--	--	--	--	--	--
OCTANE	TO15	--	--	--	--	--	--	--	--	--
PENTANE	TO15	--	--	--	--	--	--	--	--	--
1-PENTENE	TO15	--	--	--	--	--	--	--	--	--
CIS-2-PENTENE	TO15	--	--	--	--	--	--	--	--	--
TRANS-2-PENTENE	TO15	--	--	--	--	--	--	--	--	--
PROPYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
2,2,4-TRIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
2,3,4-TRIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
1-HEXENE	TO15	--	--	--	--	--	--	--	--	--
3-ETHYLTOLUENE	TO15	--	--	--	--	--	--	--	--	--
4-ETHYLTOLUENE	TO15	--	--	--	--	--	--	--	--	--
2-ETHYLTOLUENE	TO15	--	--	--	--	--	--	--	--	--
DECANE	TO15	--	--	--	--	--	--	--	--	--
1,2,3-TRIMETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
1,3-DIETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
1,4-DIETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
UNDECANE	TO15	--	--	--	--	--	--	--	--	--
CIS-2-HEXENE	TO15	--	--	--	--	--	--	--	--	--
TRANS-2-HEXENE	TO15	--	--	--	--	--	--	--	--	--
ALPHA-PINENE	TO15	--	--	--	--	--	--	--	--	--
BETA-PINENE	TO15	--	--	--	--	--	--	--	--	--
CYCLOPENTENE	TO15	--	--	--	--	--	--	--	--	--
1-UNDECENE	TO15	--	--	--	--	--	--	--	--	--
1-DECENE	TO15	--	--	--	--	--	--	--	--	--
1-NONENE	TO15	--	--	--	--	--	--	--	--	--
1-OCTENE	TO15	--	--	--	--	--	--	--	--	--
1-HEPTENE	TO15	--	--	--	--	--	--	--	--	--
1,3-BUTADIENE	TO15	2.9	6.5	U	0.73	2	U	2.9	6.6	U
Lab Sample ID										
Field Sample ID										
BENZENE (Rerun)	TO15	--	--	--	---	--	--	--	--	--
Lab Sample ID										
Field Sample ID										
ETHANE	M@82	--	--	--	--	--	--	--	--	--
ETHYLENE	M@82	--	--	--	--	--	--	--	--	--
ACETYLENE	M@82	--	--	--	--	--	--	--	--	--
PROPANE	M@82	--	--	--	--	--	--	--	--	--
PROPYLENE	M@82	--	--	--	--	--	--	--	--	--
Lab Sample ID										
Field Sample ID										
Compound	**Method**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**
METHANE	D1946	--	--	--	--	--	--	--	--	--

TABLE 2-5

Summary of Indoor Air Analytical Results
Hartford Community Center

Lab Sample ID		**0408176-15A**			**0408176-15B**			**0408176-16A**		
Field Sample ID		**081804-HCC-EH30**			**081804-HCC-EH30**			**081804-HCC-K30**		
Sample Date		**18-Aug-04**			**18-Aug-04**			**18-Aug-04**		
Sample Type		**Indoor Air**			**Indoor Air**			**Indoor Air**		
Sample Container		**30 Minute - 1 L Summa Canister**			**30 Minute - 1 L Summa Canister**			**30 Minute - 1 L Summa Canister**		
Sample Description		**Evidence Room Hallway**			**Evidence Room Hallway - ReRun**			**Kitchen**		
Compound	**Method**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**
BENZENE	TO15	16	54		15	49		29	93	
ETHYL BENZENE	TO15	0.76	3.4	U	15	67	U	0.78	3.0	U
STYRENE (MONOMER)	TO15	--	--	--	--	--	--	--	--	--
TOLUENE	TO15	0.89	3.4		15	58	U	1.1	4.3	
1,2,4-TRIMETHYLBENZENE	TO15	0.76	3.8	U	15	76	U	0.78	3.9	U
1,3,5-TRIMETHYLBENZENE	TO15	0.76	3.8	U	15	76	U	0.78	3.9	U
M,P-XYLENE	TO15	0.76	3.4	U	15	67	U	1.6	7.1	
O-XYLENE	TO15	0.76	3.4	U	15	67	U	0.78	3.4	U
BUTANE	TO15	--	--	--	--	--	--	--	--	--
1-BUTENE	TO15	--	--	--	--	--	--	--	--	--
CIS-2-BUTENE	TO15	--	--	--	--	--	--	--	--	--
TRANS-2-BUTENE	TO15	--	--	--	--	--	--	--	--	--
CYCLOHEXANE	TO15	--	--	--	--	--	--	--	--	--
CYCLOPENTANE	TO15	--	--	--	--	--	--	--	--	--
2,2-DIMETHYLBUTANE	TO15	--	--	--	--	--	--	--	--	--
2,3-DIMETHYLBUTANE	TO15	--	--	--	--	--	--	--	--	--
2,3-DIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
2,4-DIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
HEPTANE	TO15	--	--	--	--	--	--	--	--	--
HEXANE	TO15	60	210		56	200.000		60	210	
ISOPRENE	TO15	--	--	--	--	--	--	--	--	--
CUMENE	TO15	--	--	--	--	--	--	--	--	--
ISOPENTANE	TO15	4,700	14,000	E	3,500	10,000		4,400	13,000	E
METHYLCYLOHEXANE	TO15	--	--	--	--	--	--	--	--	--
METHYLCYCLOPENTANE	TO15	--	--	--	--	--	--	--	--	--
2-METHYLHEPTANE	TO15	--	--	--	--	--	--	--	--	--
3-METHYLHEPTANE	TO15	--	--	--	--	--	--	--	--	--
2-METHYLHEXANE	TO15	--	--	--	--	--	--	--	--	--
3-METHYLHEXANE	TO15	--	--	--	--	--	--	--	--	--
2-METHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
3-METHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
ISOBUTANE	TO15	--	--	--	--	--	--	--	--	--
NONANE	TO15	--	--	--	--	--	--	--	--	--
OCTANE	TO15	--	--	--	--	--	--	--	--	--
PENTANE	TO15	--	--	--	--	--	--	--	--	--
1-PENTENE	TO15	--	--	--	--	--	--	--	--	--
CIS-2-PENTENE	TO15	--	--	--	--	--	--	--	--	--
TRANS-2-PENTENE	TO15	--	--	--	--	--	--	--	--	--
PROPYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
2,2,4-TRIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
2,3,4-TRIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
1-HEXENE	TO15	--	--	--	--	--	--	--	--	--
3-ETHYLTOLUENE	TO15	--	--	--	--	--	--	--	--	--
4-ETHYLTOLUENE	TO15	--	--	--	--	--	--	--	--	--
2-ETHYLTOLUENE	TO15	--	--	--	--	--	--	--	--	--
DECANE	TO15	--	--	--	--	--	--	--	--	--
1,2,3-TRIMETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
1,3-DIETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
1,4-DIETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
UNDECANE	TO15	--	--	--	--	--	--	--	--	--
CIS-2-HEXENE	TO15	--	--	--	--	--	--	--	--	--
TRANS-2-HEXENE	TO15	--	--	--	--	--	--	--	--	--
ALPHA-PINENE	TO15	--	--	--	--	--	--	--	--	--
BETA-PINENE	TO15	--	--	--	--	--	--	--	--	--
CYCLOPENTENE	TO15	--	--	--	--	--	--	--	--	--
1-UNDECENE	TO15	--	--	--	--	--	--	--	--	--
1-DECENE	TO15	--	--	--	--	--	--	--	--	--
1-NONENE	TO15	--	--	--	--	--	--	--	--	--
1-OCTENE	TO15	--	--	--	--	--	--	--	--	--
1-HEPTENE	TO15	--	--	--	--	--	--	--	--	--
1,3-BUTADIENE	TO15	0.76	1.7	U	15	34	U	0.78	1.7	U
Lab Sample ID										
Field Sample ID										
BENZENE (Rerun)	TO15	--	--	--	--	--	--	--	--	--
Lab Sample ID										
Field Sample ID										
ETHANE	M@82	--	--	--	--	--	--	--	--	--
ETHYLENE	M@82	--	--	--	--	--	--	--	--	--
ACETYLENE	M@82	--	--	--	--	--	--	--	--	--
PROPANE	M@82	--	--	--	--	--	--	--	--	--
PROPYLENE	M@82	--	--	--	--	--	--	--	--	--
Lab Sample ID										
Field Sample ID										
Compound	**Method**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**
METHANE	D1946	--	--	--	--	--	--	--	--	--

TABLE 2-5

Summary of Indoor Air Analytical Results
Hartford Community Center

Lab Sample ID		**0408176-16B**			**0408176-17A**			**0408176-17B**		
Field Sample ID		**081804-HCC-K30**			**081804-HCC-KC30**			**081804-HCC-KC30**		
Sample Date		**18-Aug-04**			**18-Aug-04**			**18-Aug-04**		
Sample Type		**Indoor Air**			**Indoor Air**			**Indoor Air**		
Sample Container		**30 Minute - 1 L Summa Canister**			**30 Minute - 1 L Summa Canister**			**30 Minute - 1 L Summa Canister**		
Sample Description		**Kitchen - ReRun**			**Kitchen Closet**			**Kitchen Closet - ReRun**		
Compound	**Method**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**
BENZENE	TO15	29	94		46	150		41	130	
ETHYL BENZENE	TO15	16	68	U	0.76	3.4	U	30	130	U
STYRENE (MONOMER)	TO15	--	--	--	--	--	--	--	--	--
TOLUENE	TO15	16	59	U	1.4	5.5		30	120	U
1,2,4-TRIMETHYLBENZENE	TO15	16	77	U	0.76	3.8	U	30	150	U
1,3,5-TRIMETHYLBENZENE	TO15	16	77	U	0.76	3.8	U	30	150	U
M,P-XYLENE	TO15	16	68	U	1.8	7.9		30	130	U
O-XYLENE	TO15	16	68	U	0.76	3.4	U	30	130	U
BUTANE	TO15	--	--	--	--	--	--	--	--	--
1-BUTENE	TO15	--	--	--	--	--	--	--	--	--
CIS-2-BUTENE	TO15	--	--	--	--	--	--	--	--	--
TRANS-2-BUTENE	TO15	--	--	--	--	--	--	--	--	--
CYCLOHEXANE	TO15	--	--	--	--	--	--	--	--	--
CYCLOPENTANE	TO15	--	--	--	--	--	--	--	--	--
2,2-DIMETHYLBUTANE	TO15	--	--	--	--	--	--	--	--	--
2,3-DIMETHYLBUTANE	TO15	--	--	--	--	--	--	--	--	--
2,3-DIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
2,4-DIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
HEPTANE	TO15	--	--	--	--	--	--	--	--	--
HEXANE	TO15	58	210		87	310		72	260	
ISOPRENE	TO15	--	--	--	--	--	--	--	--	--
CUMENE	TO15	--	--	--	--	--	--	--	--	--
ISOPENTANE	TO15	3,400	10,000		5,900	18,000	E	6,100	18,000	
METHYLCYLOHEXANE	TO15	--	--	--	--	--	--	--	--	--
METHYLCYCLOPENTANE	TO15	--	--	--	--	--	--	--	--	--
2-METHYLHEPTANE	TO15	--	--	--	--	--	--	--	--	--
3-METHYLHEPTANE	TO15	--	--	--	--	--	--	--	--	--
2-METHYLHEXANE	TO15	--	--	--	--	--	--	--	--	--
3-METHYLHEXANE	TO15	--	--	--	--	--	--	--	--	--
2-METHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
3-METHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
ISOBUTANE	TO15	--	--	--	--	--	--	--	--	--
NONANE	TO15	--	--	--	--	--	--	--	--	--
OCTANE	TO15	--	--	--	--	--	--	--	--	--
PENTANE	TO15	--	--	--	--	--	--	--	--	--
1-PENTENE	TO15	--	--	--	--	--	--	--	--	--
CIS-2-PENTENE	TO15	--	--	--	--	--	--	--	--	--
TRANS-2-PENTENE	TO15	--	--	--	--	--	--	--	--	--
PROPYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
2,2,4-TRIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
2,3,4-TRIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
1-HEXENE	TO15	--	--	--	--	--	--	--	--	--
3-ETHYLTOLUENE	TO15	--	--	--	--	--	--	--	--	--
4-ETHYLTOLUENE	TO15	--	--	--	--	--	--	--	--	--
2-ETHYLTOLUENE	TO15	--	--	--	--	--	--	--	--	--
DECANE	TO15	--	--	--	--	--	--	--	--	--
1,2,3-TRIMETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
1,3-DIETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
1,4-DIETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
UNDECANE	TO15	--	--	--	--	--	--	--	--	--
CIS-2-HEXENE	TO15	--	--	--	--	--	--	--	--	--
TRANS-2-HEXENE	TO15	--	--	--	--	--	--	--	--	--
ALPHA-PINENE	TO15	--	--	--	--	--	--	--	--	--
BETA-PINENE	TO15	--	--	--	--	--	--	--	--	--
CYCLOPENTENE	TO15	--	--	--	--	--	--	--	--	--
1-UNDECENE	TO15	--	--	--	--	--	--	--	--	--
1-DECENE	TO15	--	--	--	--	--	--	--	--	--
1-NONENE	TO15	--	--	--	--	--	--	--	--	--
1-OCTENE	TO15	--	--	--	--	--	--	--	--	--
1-HEPTENE	TO15	--	--	--	--	--	--	--	--	--
1,3-BUTADIENE	TO15	16	35	U	0.76	1.7	U	30	68	U
Lab Sample ID										
Field Sample ID										
BENZENE (Rerun)	TO15	--	--	--	--	--	--	--	--	--
Lab Sample ID										
Field Sample ID										
ETHANE	M@82	--	--	--	--	--	--	--	--	--
ETHYLENE	M@82	--	--	--	--	--	--	--	--	--
ACETYLENE	M@82	--	--	--	--	--	--	--	--	--
PROPANE	M@82	--	--	--	--	--	--	--	--	--
PROPYLENE	M@82	--	--	--	--	--	--	--	--	--
Lab Sample ID										
Field Sample ID										
Compound	**Method**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**
METHANE	D1946	--	--	--	--	--	--	--	--	--

TABLE 2-5

Summary of Indoor Air Analytical Results
Hartford Community Center

Lab Sample ID		0408176-17BB			0408418-01A			0408418-01B		
Field Sample ID		081804-HCC-KC30 Duplicate			082504-HCC-KITCHENCLO			082504-HCC-KITCHENCLO		
Sample Date		18-Aug-04			25-Aug-04			25-Aug-04		
Sample Type		Indoor Air			Indoor Air			Indoor Air		
Sample Container		30 Minute - 1 L Summa Canister			24 HR - 6 L Summa Canister			24 HR - 6 L Summa Canister		
Sample Description		Kitchen Closet Duplicate			Kitchen Closet			Kitchen Closet - ReRun		
Compound	**Method**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**
BENZENE	TO15	52	170		40	130		40	130	
ETHYL BENZENE	TO15	30	130	U	0.90	3.9	U	36	160	U
STYRENE (MONOMER)	TO15	--	--	--	--	--	--	---	--	--
TOLUENE	TO15	30	120	U	0.90	3.4	U	36	140	U
1,2,4-TRIMETHYLBENZENE	TO15	30	150	U	0.90	4.5	u	36	180	U
1,3,5-TRIMETHYLBENZENE	TO15	30	150	U	0.90	4.5	u	36	180	U
M,P-XYLENE	TO15	30	130	U	1.7	7.7		36	160	U
O-XYLENE	TO15	30	130	U	0.90	4.0	u	36	160	U
BUTANE	TO15	--	--	--	--	--	--	--	--	--
1-BUTENE	TO15	--	--	--	--	--	--	--	--	--
CIS-2-BUTENE	TO15	--	--	--	--	--	--	--	--	--
TRANS-2-BUTENE	TO15	--	--	--	--	--	--	--	--	--
CYCLOHEXANE	TO15	--	--	--	--	--	--	--	--	--
CYCLOPENTANE	TO15	--	--	--	--	--	--	--	--	--
2,2-DIMETHYLBUTANE	TO15	--	--	--	--	--	--	--	--	--
2,3-DIMETHYLBUTANE	TO15	--	--	--	--	--	--	--	--	--
2,3-DIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
2,4-DIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
HEPTANE	TO15	--	--	--	--	--	--	--	--	--
HEXANE	TO15	92	330.000		130	480		120	420	
ISOPRENE	TO15	--	--	--	--	--	--	--	--	--
CUMENE	TO15	--	--	--	--	--	--	--	--	--
ISOPENTANE	TO15	7,200	22,000		7,400	22,000	E	11,000	33,000	
METHYLCYLOHEXANE	TO15	--	--	--	--	--	--	--	--	--
METHYLCYCLOPENTANE	TO15	--	--	--	--	--	--	--	--	--
2-METHYLHEPTANE	TO15	--	--	--	--	--	--	--	--	--
3-METHYLHEPTANE	TO15	--	--	--	--	--	--	--	--	--
2-METHYLHEXANE	TO15	--	--	--	--	--	--	--	--	--
3-METHYLHEXANE	TO15	--	--	--	--	--	--	--	--	--
2-METHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
3-METHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
ISOBUTANE	TO15	--	--	--	--	--	--	--	--	--
NONANE	TO15	--	--	--	--	--	--	--	--	--
OCTANE	TO15	--	--	--	--	--	--	--	--	--
PENTANE	TO15	--	--	--	--	--	--	--	--	--
1-PENTENE	TO15	--	--	--	--	--	--	--	--	--
CIS-2-PENTENE	TO15	--	--	--	--	--	--	--	--	--
TRANS-2-PENTENE	TO15	--	--	--	--	--	--	--	--	--
PROPYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
2,2,4-TRIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
2,3,4-TRIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
1-HEXENE	TO15	--	--	--	--	--	--	--	--	--
3-ETHYLTOLUENE	TO15	--	--	--	--	--	--	--	--	--
4-ETHYLTOLUENE	TO15	--	--	--	--	--	--	--	--	--
2-ETHYLTOLUENE	TO15	--	--	--	--	--	--	--	--	--
DECANE	TO15	--	--	--	--	--	--	--	--	--
1,2,3-TRIMETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
1,3-DIETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
1,4-DIETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
UNDECANE	TO15	--	--	--	--	--	--	--	--	--
CIS-2-HEXENE	TO15	--	--	--	--	--	--	--	--	--
TRANS-2-HEXENE	TO15	--	--	--	--	--	--	--	--	--
ALPHA-PINENE	TO15	--	--	--	--	--	--	--	--	--
BETA-PINENE	TO15	--	--	--	--	--	--	--	--	--
CYCLOPENTENE	TO15	--	--	--	--	--	--	--	--	--
1-UNDECENE	TO15	--	--	--	--	--	--	--	--	--
1-DECENE	TO15	--	--	--	--	--	--	--	--	--
1-NONENE	TO15	--	--	--	--	--	--	--	--	--
1-OCTENE	TO15	--	--	--	--	--	--	--	--	--
1-HEPTENE	TO15	--	--	--	--	--	--	--	--	--
1,3-BUTADIENE	TO15	30	68	U	0.90	2.0	U	36.0	80	U
Lab Sample ID										
Field Sample ID										
BENZENE (Rerun)	TO15	--	--	--	--	--	--	--	--	--
Lab Sample ID										
Field Sample ID										
ETHANE	M@82	--	--	--	--	--	--	--	--	--
ETHYLENE	M@82	--	--	--	--	--	--	--	--	--
ACETYLENE	M@82	--	--	--	--	--	--	--	--	--
PROPANE	M@82	--	--	--	--	--	--	--	--	--
PROPYLENE	M@82	--	--	--	--	--	--	--	--	--
Lab Sample ID										
Field Sample ID										
Compound	**Method**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**
METHANE	D1946	--	--	--	--	--	--	--	--	--

TABLE 2-5

Summary of Indoor Air Analytical Results
Hartford Community Center

Lab Sample ID		**0408418-02A**			**0408418-02B**			**0408418-03A**		
Field Sample ID		**082504-HCC-BR**			**082504-HCC-BR**			**082504-HCC-KITCHEN**		
Sample Date		**25-Aug-04**			**25-Aug-04**			**25-Aug-04**		
Sample Type		**Indoor Air**			**Indoor Air**			**Indoor Air**		
Sample Container		**24 HR - 6 L Summa Canister**			**24 HR - 6 L Summa Canister**			**24 HR - 6 L Summa Canister**		
Sample Description		**Boiler Room**			**Boiler Room - ReRun**			**Kitchen**		
Compound	**Method**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**
BENZENE	TO15	5.2	17		6.6	21	U	17	56	
ETHYL BENZENE	TO15	0.82	3.6	U	6.6	29	U	0.82	3.6	U
STYRENE (MONOMER)	TO15	--	--	--	--	--	--	--	--	--
TOLUENE	TO15	0.82	3.1	U	6.6	25	U	0.82	3.1	U
1,2,4-TRIMETHYLBENZENE	TO15	0.82	3.6	U	6.6	33	U	0.82	4.0	U
1,3,5-TRIMETHYLBENZENE	TO15	0.82	3.6	U	6.6	33	U	0.82	4.0	U
M,P-XYLENE	TO15	0.82	3.6	U	6.6	29	U	1.2	5.4	
O-XYLENE	TO15	0.82	3.6	U	6.6	29	U	0.82	5.0	U
BUTANE	TO15	--	--	--	--	--	--	--	--	--
1-BUTENE	TO15	--	--	--	--	--	--	--	--	--
CIS-2-BUTENE	TO15	--	--	--	--	--	--	--	--	--
TRANS-2-BUTENE	TO15	--	--	--	--	--	--	--	--	--
CYCLOHEXANE	TO15	--	--	--	--	--	--	--	--	--
CYCLOPENTANE	TO15	--	--	--	--	--	--	--	--	--
2,2-DIMETHYLBUTANE	TO15	--	--	--	--	--	--	--	--	--
2,3-DIMETHYLBUTANE	TO15	--	--	--	--	--	--	--	--	--
2,3-DIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
2,4-DIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
HEPTANE	TO15	--	--	--	--	--	--	--	--	--
HEXANE	TO15	21	75		22	79		45	160	
ISOPRENE	TO15	--	--	--	--	--	--	--	--	--
CUMENE	TO15	--	--	--	--	--	--	--	--	--
ISOPENTANE	TO15	1,700	5,000	E	1,600	4,700		2,900	8,600	E
METHYLCYLOHEXANE	TO15	--	--	--	--	--	--	--	--	--
METHYLCYCLOPENTANE	TO15	--	--	--	--	--	--	--	--	--
2-METHYLHEPTANE	TO15	--	--	--	--	--	--	--	--	--
3-METHYLHEPTANE	TO15	--	--	--	--	--	--	--	--	--
2-METHYLHEXANE	TO15	--	--	--	--	--	--	--	--	--
3-METHYLHEXANE	TO15	--	--	--	--	--	--	--	--	--
2-METHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
3-METHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
ISOBUTANE	TO15	--	--	--	--	--	--	--	--	--
NONANE	TO15	--	--	--	--	--	--	--	--	--
OCTANE	TO15	--	--	--	--	--	--	--	--	--
PENTANE	TO15	--	--	--	--	--	--	--	--	--
1-PENTENE	TO15	--	--	--	--	--	--	--	--	--
CIS-2-PENTENE	TO15	--	--	--	--	--	--	--	--	--
TRANS-2-PENTENE	TO15	--	--	--	--	--	--	--	--	--
PROPYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
2,2,4-TRIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
2,3,4-TRIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
1-HEXENE	TO15	--	--	--	--	--	--	--	--	--
3-ETHYLTOLUENE	TO15	--	--	--	--	--	--	--	--	--
4-ETHYLTOLUENE	TO15	--	--	--	--	--	--	--	--	--
2-ETHYLTOLUENE	TO15	--	--	--	--	--	--	--	--	--
DECANE	TO15	--	--	--	--	--	--	--	--	--
1,2,3-TRIMETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
1,3-DIETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
1,4-DIETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
UNDECANE	TO15	--	--	--	--	--	--	--	--	--
CIS-2-HEXENE	TO15	--	--	--	--	--	--	--	--	--
TRANS-2-HEXENE	TO15	--	--	--	--	--	--	--	--	--
ALPHA-PINENE	TO15	--	--	--	--	--	--	--	--	--
BETA-PINENE	TO15	--	--	--	--	--	--	--	--	--
CYCLOPENTENE	TO15	--	--	--	--	--	--	--	--	--
1-UNDECENE	TO15	--	--	--	--	--	--	--	--	--
1-DECENE	TO15	--	--	--	--	--	--	--	--	--
1-NONENE	TO15	--	--	--	--	--	--	--	--	--
1-OCTENE	TO15	--	--	--	--	--	--	--	--	--
1-HEPTENE	TO15	--	--	--	--	--	--	--	--	--
1,3-BUTADIENE	TO15	0.82	1.8	U	6.6	15	U	0.82	1.8	U
Lab Sample ID										
Field Sample ID										
BENZENE (Rerun)	TO15	--	--	--	--	--	--	--	--	--
Lab Sample ID										
Field Sample ID										
ETHANE	M@82	--	--	--	--	--	--	--	--	--
ETHYLENE	M@82	--	--	--	--	--	--	--	--	--
ACETYLENE	M@82	--	--	--	--	--	--	--	--	--
PROPANE	M@82	--	--	--	--	--	--	--	--	--
PROPYLENE	M@82	--	--	--	--	--	--	--	--	--
Lab Sample ID										
Field Sample ID										
Compound	**Method**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**
METHANE	D1946	--	--	--	--	--	--		0	0

TABLE 2-5

Summary of Indoor Air Analytical Results
Hartford Community Center

Lab Sample ID		**0408418-03B**			**0408418-04A**			**0408418-04B**		
Field Sample ID		**082504-HCC-KITCHEN**			**082504-HCC-EH**			**082504-HCC-EH**		
Sample Date		**25-Aug-04**			**25-Aug-04**			**25-Aug-04**		
Sample Type		**Indoor Air**			**Indoor Air**			**Indoor Air**		
Sample Container		**24 HR - 6 L Summa Canister**			**24 HR - 6 L Summa Canister**			**24 HR - 6 L Summa Canister**		
Sample Description		**Kitchen - ReRun**			**Evidence Room Hallway**			**Evidence Room Hallway - ReRun**		
Compound	**Method**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**
BENZENE	TO15	17	54		14	45		17	54	U
ETHYL BENZENE	TO15	8.2	36	U	0.84	3.7	U	17	74	U
STYRENE (MONOMER)	TO15	--	--	--	--	--	--	--	--	--
TOLUENE	TO15	8.2	31	U	0.84	3.2	U	17	64	U
1,2,4-TRIMETHYLBENZENE	TO15	8.2	41	U	0.84	4.2	U	17	84	U
1,3,5-TRIMETHYLBENZENE	TO15	8.2	41.0	U	0.84	4.2	U	17	84	U
M,P-XYLENE	TO15	8.2	36	U	0.84	3.7	U	17	74	U
O-XYLENE	TO15	8.2	36	U	0.84	3.7	U	17	74	U
BUTANE	TO15	--	--	--	--	--	--	--	--	--
1-BUTENE	TO15	--	--	--	--	--	--	--	--	--
CIS-2-BUTENE	TO15	--	--	--	--	--	--	--	--	--
TRANS-2-BUTENE	TO15	--	--	--	--	--	--	--	--	--
CYCLOHEXANE	TO15	--	--	--	--	--	--	--	--	--
CYCLOPENTANE	TO15	--	--	--	--	--	--	--	--	--
2,2-DIMETHYLBUTANE	TO15	--	--	--	--	--	--	--	--	--
2,3-DIMETHYLBUTANE	TO15	--	--	--	--	--	--	--	--	--
2,3-DIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
2,4-DIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
HEPTANE	TO15	--	--	--	--	--	--	--	--	--
HEXANE	TO15	42	150		60	210		58	210	
ISOPRENE	TO15	--	--	--	--	--	--	--	--	--
CUMENE	TO15	--	--	--	--	--	--	--	--	--
ISOPENTANE	TO15	2,400	7,300		3,800	11,000	E	3,000	8,900	
METHYLCYLOHEXANE	TO15	--	--	--	--	--	--	--	--	--
METHYLCYCLOPENTANE	TO15	--	--	--	--	--	--	--	--	--
2-METHYLHEPTANE	TO15	--	--	--	--	--	--	--	--	--
3-METHYLHEPTANE	TO15	--	--	--	--	--	--	--	--	--
2-METHYLHEXANE	TO15	--	--	--	--	--	--	--	--	--
3-METHYLHEXANE	TO15	--	--	--	--	--	--	--	--	--
2-METHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
3-METHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
ISOBUTANE	TO15	--	--	--	--	--	--	--	--	--
NONANE	TO15	--	--	--	--	--	--	--	--	--
OCTANE	TO15	--	--	--	--	--	--	--	--	--
PENTANE	TO15	--	--	--	--	--	--	--	--	--
1-PENTENE	TO15	--	--	--	--	--	--	--	--	--
CIS-2-PENTENE	TO15	--	--	--	--	--	--	--	--	--
TRANS-2-PENTENE	TO15	--	--	--	--	--	--	--	--	--
PROPYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
2,2,4-TRIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
2,3,4-TRIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
1-HEXENE	TO15	--	--	--	--	--	--	--	--	--
3-ETHYLTOLUENE	TO15	--	--	--	--	--	--	--	--	--
4-ETHYLTOLUENE	TO15	--	--	--	--	--	--	--	--	--
2-ETHYLTOLUENE	TO15	--	--	--	--	--	--	--	--	--
DECANE	TO15	--	--	--	--	--	--	--	--	--
1,2,3-TRIMETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
1,3-DIETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
1,4-DIETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
UNDECANE	TO15	--	--	--	--	--	--	--	--	--
CIS-2-HEXENE	TO15	--	--	--	--	--	--	--	--	--
TRANS-2-HEXENE	TO15	--	--	--	--	--	--	--	--	--
ALPHA-PINENE	TO15	--	--	--	--	--	--	--	--	--
BETA-PINENE	TO15	--	--	--	--	--	--	--	--	--
CYCLOPENTENE	TO15	--	--	--	--	--	--	--	--	--
1-UNDECENE	TO15	--	--	--	--	--	--	--	--	--
1-DECENE	TO15	--	--	--	--	--	--	--	--	--
1-NONENE	TO15	--	--	--	--	--	--	--	--	--
1-OCTENE	TO15	--	--	--	--	--	--	--	--	--
1-HEPTENE	TO15	--	--	--	--	--	--	--	--	--
1,3-BUTADIENE	TO15	8.2	18	U	0.84	1.9	U	17	38	U
Lab Sample ID										
Field Sample ID										
BENZENE (Rerun)	TO15	--	--	--	--	--	--	--	--	--
Lab Sample ID										
Field Sample ID										
ETHANE	M@82	--	--	--	--	--	--	--	--	--
ETHYLENE	M@82	--	--	--	--	--	--	--	--	--
ACETYLENE	M@82	--	--	--	--	--	--	--	--	--
PROPANE	M@82	--	--	--	--	--	--	--	--	--
PROPYLENE	M@82	--	--	--	--	--	--	--	--	--
Lab Sample ID										
Field Sample ID										
Compound	**Method**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**
METHANE	D1946		0	0		0	0		0	0

TABLE 2-5

Summary of Indoor Air Analytical Results
Hartford Community Center

Lab Sample ID		**0408418-05A**			**0408418-05B**			**0408414D-04A**		
Field Sample ID		**082504-HCC-UWS**			**082504-HCC-UWS**			**082504-HCC-UW530**		
Sample Date		**25-Aug-04**			**25-Aug-04**			**25-Aug-04**		
Sample Type		**Indoor Air**			**Indoor Air**			**Indoor Air**		
Sample Container		**24 HR - 6 L Summa Canister**			**24 HR - 6 L Summa Canister**			**30 Minute - 1 L Summa Canister**		
Sample Description		**Under West Stairs**			**Under West Stairs - ReRun**			**Under West Stairs**		
Compound	**Method**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**
BENZENE	TO15	9.2	30		17	54	U	10	34	
ETHYL BENZENE	TO15	0.84	3.7	U	17	74	U	3.0	13	U
STYRENE (MONOMER)	TO15	--	--	--	--	--	--	--	--	--
TOLUENE	TO15	0.84	3.0	U	17	64	U	3.0	11	U
1,2,4-TRIMETHYLBENZENE	TO15	0.84	4.2	U	17	84	U	3.0	15	U
1,3,5-TRIMETHYLBENZENE	TO15	0.84	4.2	U	17	84	U	3.0	15	U
M,P-XYLENE	TO15	0.84	3.7	U	17	74	U	3.0	13	U
O-XYLENE	TO15	0.84	3.7	U	17	74	U	3.0	13	U
BUTANE	TO15	--	--	--	--	--	--	--	--	--
1-BUTENE	TO15	--	--	--	--	--	--	--	--	--
CIS-2-BUTENE	TO15	--	--	--	--	--	--	--	--	--
TRANS-2-BUTENE	TO15	--	--	--	--	--	--	--	--	--
CYCLOHEXANE	TO15	--	--	--	--	--	--	--	--	--
CYCLOPENTANE	TO15	--	--	--	--	--	--	--	--	--
2,2-DIMETHYLBUTANE	TO15	--	--	--	--	--	--	--	--	--
2,3-DIMETHYLBUTANE	TO15	--	--	--	--	--	--	--	--	--
2,3-DIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
2,4-DIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
HEPTANE	TO15	--	--	--	--	--	--	--	--	--
HEXANE	TO15	42	150		37	130		36	130	
ISOPRENE	TO15	--	--	--	--	--	--	--	--	--
CUMENE	TO15	--	--	--	--	--	--	--	--	--
ISOPENTANE	TO15	3,600	11,000	E	2,800	8,500		--	--	--
METHYLCYLOHEXANE	TO15	--	--	--	--	--	--	--	--	--
METHYLCYCLOPENTANE	TO15	--	--	--	--	--	--	--	--	--
2-METHYLHEPTANE	TO15	--	--	--	--	--	--	--	--	--
3-METHYLHEPTANE	TO15	--	--	--	--	--	--	--	--	--
2-METHYLHEXANE	TO15	--	--	--	--	--	--	--	--	--
3-METHYLHEXANE	TO15	--	--	--	--	--	--	--	--	--
2-METHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
3-METHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
ISOBUTANE	TO15	--	--	--	--	--	--	--	--	--
NONANE	TO15	--	--	--	--	--	--	--	--	--
OCTANE	TO15	--	--	--	--	--	--	--	--	--
PENTANE	TO15	--	--	--	--	--	--	--	--	--
1-PENTENE	TO15	--	--	--	--	--	--	--	--	--
CIS-2-PENTENE	TO15	--	--	--	--	--	--	--	--	--
TRANS-2-PENTENE	TO15	--	--	--	--	--	--	--	--	--
PROPYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
2,2,4-TRIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
2,3,4-TRIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
1-HEXENE	TO15	--	--	--	--	--	--	--	--	--
3-ETHYLTOLUENE	TO15	--	--	--	--	--	--	--	--	--
4-ETHYLTOLUENE	TO15	--	--	--	--	--	--	--	--	--
2-ETHYLTOLUENE	TO15	--	--	--	--	--	--	--	--	--
DECANE	TO15	--	--	--	--	--	--	--	--	--
1,2,3-TRIMETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
1,3-DIETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
1,4-DIETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
UNDECANE	TO15	--	--	--	--	--	--	--	--	--
CIS-2-HEXENE	TO15	--	--	--	--	--	--	--	--	--
TRANS-2-HEXENE	TO15	--	--	--	--	--	--	--	--	--
ALPHA-PINENE	TO15	--	--	--	--	--	--	--	--	--
BETA-PINENE	TO15	--	--	--	--	--	--	--	--	--
CYCLOPENTENE	TO15	--	--	--	--	--	--	--	--	--
1-UNDECENE	TO15	--	--	--	--	--	--	--	--	--
1-DECENE	TO15	--	--	--	--	--	--	--	--	--
1-NONENE	TO15	--	--	--	--	--	--	--	--	--
1-OCTENE	TO15	--	--	--	--	--	--	--	--	--
1-HEPTENE	TO15	--	--	--	--	--	--	--	--	--
1,3-BUTADIENE	TO15	0.84	1.9	U	17	38	U	3.0	7	U
Lab Sample ID										
Field Sample ID										
BENZENE (Rerun)	TO15	--	--	--	--	--	--	--	--	--
Lab Sample ID										
Field Sample ID										
ETHANE	M@82	--	--	--	--	--	--	--	--	--
ETHYLENE	M@82	--	--	--	--	--	--	--	--	--
ACETYLENE	M@82	--	--	--	--	--	--	--	--	--
PROPANE	M@82	--	--	--	--	--	--	--	--	--
PROPYLENE	M@82	--	--	--	--	--	--	--	--	--
Lab Sample ID										
Field Sample ID										
Compound	**Method**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**
METHANE	D1946	--	--	--	--	--	--	--	--	--

TABLE 2-5

Summary of Indoor Air Analytical Results
Hartford Community Center

Lab Sample ID		**0408414D-05A**			**0408414D-07A**			**0408414D-08A**		
Field Sample ID		**082504-HCC-BR30**			**082504-HCC-KITCHEN6030**			**082504-HCC-EH30**		
Sample Date		**25-Aug-04**			**25-Aug-04**			**25-Aug-04**		
Sample Type		**Indoor Air**			**Indoor Air**			**Outdoor Air**		
Sample Container		**30 Minute - 1 L Summa Canister**			**30 Minute - 1 L Summa Canister**			**30 Minute - 1 L Summa Canister**		
Sample Description		**Boiler Room**			**Kitchen Closet**			**Evidence Room Hallway**		
Compound	**Method**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**
BENZENE	TO15	4.1	13		9.8	32		5.5	18	
ETHYL BENZENE	TO15	1.2	5.5	U	2.5	11	U	1.3	5.7	U
STYRENE (MONOMER)	TO15	--	--	--	--	--	--	--	--	--
TOLUENE	TO15	1.2	4.8	U	2.5	9.7	U	1.3	4.9	U
1,2,4-TRIMETHYLBENZENE	TO15	1.2	6.2	U	2.5	13	U	1.3	6.4	U
1,3,5-TRIMETHYLBENZENE	TO15	1.2	6.2	U	2.5	13	U	1.3	6.4	U
M,P-XYLENE	TO15	1.2	5.5	U	2.5	11	U	1.3	5.7	U
O-XYLENE	TO15	1.2	5.5	U	2.5	11	U	1.3	5.7	U
BUTANE	TO15	--	--	--	--	--	--	--	--	--
1-BUTENE	TO15	--	--	--	--	--	--	--	--	--
CIS-2-BUTENE	TO15	--	--	--	--	--	--	--	--	--
TRANS-2-BUTENE	TO15	--	--	--	--	--	--	--	--	--
CYCLOHEXANE	TO15	--	--	--	--	--	--	--	--	--
CYCLOPENTANE	TO15	--	--	--	--	--	--	--	--	--
2,2-DIMETHYLBUTANE	TO15	--	--	--	--	--	--	--	--	--
2,3-DIMETHYLBUTANE	TO15	--	--	--	--	--	--	--	--	--
2,3-DIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
2,4-DIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
HEPTANE	TO15	--	--	--	--	--	--	--	--	--
HEXANE	TO15	13	46		26	92		17	63	
ISOPRENE	TO15	--	--	--	--	--	--	--	--	--
CUMENE	TO15	--	--	--	--	--	--	--	--	--
ISOPENTANE	TO15	--	--	--	--	--	--	--	--	--
METHYLCYLOHEXANE	TO15	--	--	--	--	--	--	--	--	--
METHYLCYCLOPENTANE	TO15	--	--	--	--	--	--	--	--	--
2-METHYLHEPTANE	TO15	--	--	--	--	--	--	--	--	--
3-METHYLHEPTANE	TO15	--	--	--	--	--	--	--	--	--
2-METHYLHEXANE	TO15	--	--	--	--	--	--	--	--	--
3-METHYLHEXANE	TO15	--	--	--	--	--	--	--	--	--
2-METHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
3-METHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
ISOBUTANE	TO15	--	--	--	--	--	--	--	--	--
NONANE	TO15	--	--	--	--	--	--	--	--	--
OCTANE	TO15	--	--	--	--	--	--	--	--	--
PENTANE	TO15	--	--	--	--	--	--	--	--	--
1-PENTENE	TO15	--	--	--	--	--	--	--	--	--
CIS-2-PENTENE	TO15	--	--	--	--	--	--	--	--	--
TRANS-2-PENTENE	TO15	--	--	--	--	--	--	--	--	--
PROPYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
2,2,4-TRIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
2,3,4-TRIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
1-HEXENE	TO15	--	--	--	--	--	--	--	--	--
3-ETHYLTOLUENE	TO15	--	--	--	--	--	--	--	--	--
4-ETHYLTOLUENE	TO15	--	--	--	--	--	--	--	--	--
2-ETHYLTOLUENE	TO15	--	--	--	--	--	--	--	--	--
DECANE	TO15	--	--	--	--	--	--	--	--	--
1,2,3-TRIMETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
1,3-DIETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
1,4-DIETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
UNDECANE	TO15	--	--	--	--	--	--	--	--	--
CIS-2-HEXENE	TO15	--	--	--	--	--	--	--	--	--
TRANS-2-HEXENE	TO15	--	--	--	--	--	--	--	--	--
ALPHA-PINENE	TO15	--	--	--	--	--	--	--	--	--
BETA-PINENE	TO15	--	--	--	--	--	--	--	--	--
CYCLOPENTENE	TO15	--	--	--	--	--	--	--	--	--
1-UNDECENE	TO15	--	--	--	--	--	--	--	--	--
1-DECENE	TO15	--	--	--	--	--	--	--	--	--
1-NONENE	TO15	--	--	--	--	--	--	--	--	--
1-OCTENE	TO15	--	--	--	--	--	--	--	--	--
1-HEPTENE	TO15	--	--	--	--	--	--	--	--	--
1,3-BUTADIENE	TO15	1.2	2.8	U	2.5	5.7	U	1.3	2.9	U
Lab Sample ID										
Field Sample ID										
BENZENE (Rerun)	TO15	--	--	--	--	--	--	--	--	--
Lab Sample ID										
Field Sample ID										
ETHANE	M@82	--	--	--	--	--	--	--	--	--
ETHYLENE	M@82	--	--	--	--	--	--	--	--	--
ACETYLENE	M@82	--	--	--	--	--	--	--	--	--
PROPANE	M@82	--	--	--	--	--	--	--	--	--
PROPYLENE	M@82	--	--	--	--	--	--	--	--	--
Lab Sample ID										
Field Sample ID										
Compound	**Method**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**
METHANE	D1946	--	--	--	--	--	--	--	--	--

TABLE 2-5

Summary of Indoor Air Analytical Results
Hartford Community Center

Lab Sample ID		**0408414D-09A**			**0408414E-04A**			**0408414E-05A**		
Field Sample ID		**082504-HCC-KITCHEN-30**			**082504-HCC-UW530**			**082504-HCC-BR30**		
Sample Date		**25-Aug-04**			**25-Aug-04**			**25-Aug-04**		
Sample Type		**Indoor Air**			**Indoor Air**			**Indoor Air**		
Sample Container		**30 Minute - 1 L Summa Canister**			**30 Minute - 1 L Summa Canister**			**30 Minute - 1 L Summa Canister**		
Sample Description		**Kitchen**			**Under West Stairs**			**Boiler Room**		
Compound	**Method**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**
BENZENE	TO15	4.8	16		--	--	--	--	--	--
ETHYL BENZENE	TO15	1.2	5.5	U	--	--	--	--	--	--
STYRENE (MONOMER)	TO15	--	--	--	--	--	--	--	--	--
TOLUENE	TO15	1.2	4.8	U	--	--	--	--	--	--
1,2,4-TRIMETHYLBENZENE	TO15	1.2	6.2	U	--	--	--	--	--	--
1,3,5-TRIMETHYLBENZENE	TO15	1.2	6.2	U	--	--	--	--	--	--
M,P-XYLENE	TO15	1.2	5.5	U	--	--	--	--	--	--
O-XYLENE	TO15	1.2	5.5	U	--	--	--	--	--	--
BUTANE	TO15	--	--	--	--	--	--	--	--	--
1-BUTENE	TO15	--	--	--	--	--	--	--	--	--
CIS-2-BUTENE	TO15	--	--	--	--	--	--	--	--	--
TRANS-2-BUTENE	TO15	--	--	--	--	--	--	--	--	--
CYCLOHEXANE	TO15	--	--	--	--	--	--	--	--	--
CYCLOPENTANE	TO15	--	--	--	--	--	--	--	--	--
2,2-DIMETHYLBUTANE	TO15	--	--	--	--	--	--	--	--	--
2,3-DIMETHYLBUTANE	TO15	--	--	--	--	--	--	--	--	--
2,3-DIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
2,4-DIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
HEPTANE	TO15	--	--	--	--	--	--	--	--	--
HEXANE	TO15	11	38		--	--	--	--	--	--
ISOPRENE	TO15	--	--	--	--	--	--	--	--	--
CUMENE	TO15	--	--	--	--	--	--	--	--	--
ISOPENTANE	TO15	--	--	--	4,100	12,000		1,600	4,800	
METHYLCYLOHEXANE	TO15	--	--	--	--	--	--	--	--	--
METHYLCYCLOPENTANE	TO15	--	--	--	--	--	--	--	--	--
2-METHYLHEPTANE	TO15	--	--	--	--	--	--	--	--	--
3-METHYLHEPTANE	TO15	--	--	--	--	--	--	--	--	--
2-METHYLHEXANE	TO15	--	--	--	--	--	--	--	--	--
3-METHYLHEXANE	TO15	--	--	--	--	--	--	--	--	--
2-METHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
3-METHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
ISOBUTANE	TO15	--	--	--	--	--	--	--	--	--
NONANE	TO15	--	--	--	--	--	--	--	--	--
OCTANE	TO15	--	--	--	--	--	--	--	--	--
PENTANE	TO15	--	--	--	--	--	--	--	--	--
1-PENTENE	TO15	--	--	--	--	--	--	--	--	--
CIS-2-PENTENE	TO15	--	--	--	--	--	--	--	--	--
TRANS-2-PENTENE	TO15	--	--	--	--	--	--	--	--	--
PROPYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
2,2,4-TRIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
2,3,4-TRIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
1-HEXENE	TO15	--	--	--	--	--	--	--	--	--
3-ETHYLTOLUENE	TO15	--	--	--	--	--	--	--	--	--
4-ETHYLTOLUENE	TO15	--	--	--	--	--	--	--	--	--
2-ETHYLTOLUENE	TO15	--	--	--	--	--	--	--	--	--
DECANE	TO15	--	--	--	--	--	--	--	--	--
1,2,3-TRIMETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
1,3-DIETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
1,4-DIETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
UNDECANE	TO15	--	--	--	--	--	--	--	--	--
CIS-2-HEXENE	TO15	--	--	--	--	--	--	--	--	--
TRANS-2-HEXENE	TO15	--	--	--	--	--	--	--	--	--
ALPHA-PINENE	TO15	--	--	--	--	--	--	--	--	--
BETA-PINENE	TO15	--	--	--	--	--	--	--	--	--
CYCLOPENTENE	TO15	--	--	--	--	--	--	--	--	--
1-UNDECENE	TO15	--	--	--	--	--	--	--	--	--
1-DECENE	TO15	--	--	--	--	--	--	--	--	--
1-NONENE	TO15	--	--	--	--	--	--	--	--	--
1-OCTENE	TO15	--	--	--	--	--	--	--	--	--
1-HEPTENE	TO15	--	--	--	--	--	--	--	--	--
1,3-BUTADIENE	TO15	1.2	2.8	U	--	--	--	--	--	--
Lab Sample ID										
Field Sample ID										
BENZENE (Rerun)	TO15	--	--	--	--	--	--	--	--	--
Lab Sample ID										
Field Sample ID										
ETHANE	M@82	--	--	--	--	--	--	--	--	--
ETHYLENE	M@82	--	--	--	--	--	--	--	--	--
ACETYLENE	M@82	--	--	--	--	--	--	--	--	--
PROPANE	M@82	--	--	--	--	--	--	--	--	--
PROPYLENE	M@82	--	--	--	--	--	--	--	--	--
Lab Sample ID					**0408414F-04A**			**0408414f-05A**		
Field Sample ID					**082504-HCC-UW530**			**082504-HCC-BR30**		
Compound	**Method**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**
METHANE	D1946	--	--	--	0.016	--	--	0.0058	--	--

TABLE 2-6a

Summary of Indoor Air Analytical Results By Sampling Event
Hartford Community Center

Sample ID	Location	Sample Type	Sampling Date	1,3 Butadiene	Isopentane	Hexane	Benzene	Toluene	Ethylbenzene	m,p-Xylenes	o-Xylene	1,3,5 TMB	1,2,4 TMB
Final Data from April 6, 2004 - 24-hour Summa, Fixed Lab													
040604CC-1C	Evidence Room Hallway	24-hr Summa	6-Apr-04	47 u	7,300	190 u	49	47 u	47 u	47 u	47 u	47 u	47 u
040604CC-1A	Cafeteria	24-hr Summa	6-Apr-04	17 u	3,200	68 u	30	17 u	17 u	17 u	17 u	17 u	17 u
040604CC-1B	Cafeteria Stroage Room	24-hr Summa	6-Apr-04	22 u	3,400	90 u	41	22 u	22 u	22 u	22 u	22 u	22 u
040604CC-2B	Gymnasium - NE corner	24-hr Summa	6-Apr-04	2.1 u	350	13	3.8	2.3	2.1 u	2.1 u	2.1 u	2.1 u	2.1 u
040604CC-10C	Evidence Room Hallway - Dup.	24-hr Summa	6-Apr-04	44 u	6,700	180 u	48	44 u	44 u	44 u	44 u	44 u	44 u
040604CC-2A	Gymnasium - West end on stage	24-hr Summa	6-Apr-04	2.3 u	320	12	3.7	2.3 u	2.3 u	2.3 u	2.3 u	2.3 u	2.3 u
040604CC-BKGD	Outdoor air	24-hr Summa	6-Apr-04	0.92 u	84	3.7 u	2.4	1.8	0.92 u	0.92 u	0.92 u	0.92 u	0.92 u
Final Data from June 11, 2004 - Grab Tedlar bag, Fixed Lab													
6/11/04 Woman's Locker Room	Women's Bathroom	Tedlar Bag	11-Jun-04	--	--	--	6.9	--	--	--	--	--	--
6/11/04 Sanitary Closet	Sanitary Closet	Tedlar Bag	11-Jun-04	--	--	--	9.8	--	--	--	--	--	--
6/11/04 Kitchen	Kitchen	Tedlar Bag	11-Jun-04	--	--	--	5.8	--	--	--	--	--	--
6/11/04 Boiler Room	Boiler Room	Tedlar Bag	11-Jun-04	--	--	--	2.2	--	--	--	--	--	--
Final Data from June 16 & 17, 2004 - 30-min Summa, Fixed Lab													
061604-HCC-MSD	Men's Bathroom at shower drain	30-min Summa	16-Jun-04	3.1 u	4,900	67	17	3.1 u	3.1 u	3.1 u	3.1 u	3.1 u	3.1 u
061604-HCC-CAF-SE Outlet	Electrical outlet SE corner cafteteria	30-min Summa	16-Jun-04	29 u	32,000	65	7.5	29 u	29 u	29 u	29 u	29 u	29 u
061604-HCC-Outside	Outdoor air	30-min Summa	16-Jun-04	0.79 u	12	0.79 u	0.53	0.79 u	0.79 u	0.79 u	0.79 u	0.79 u	0.79 u
061704-HCC-WFD	Women's Bathroom	30-min Summa	17-Jun-04	0.78 u	3,000	36	14	0.99	0.78 u	2.7	1.5	2.1	7.4
061704-HCC-Outside	Outdoor air	30-min Summa	17-Jun-04	0.82 u	3.6	0.82 u	0.82 u	0.82 u	0.82 u	0.82 u	0.82 u	0.82 u	0.82 u
061704-HCC-MSD	Men's Bathroom at shower drain	30-min Summa	17-Jun-04	5.2 u	34,000	250	34	5.2 u	5.2 u	5.2 u	5.2 u	5.2 u	5.2 u
Final Data from July 30, 2004 - Summa, On-Site Lab													
073004-CC-BR	Boiler Room	30-min Summa	30-Jul-04	1.6 u	490	4.0	1.9	1.6 u	1.6 u	1.6 u	1.6 u	1.6 u	1.6 u
073004-CC-C	Cafeteria	30-min Summa	30-Jul-04	6.4 u	1,300	19	12	6.4 u	6.4 u	6.4 u	6.4 u	6.4 u	6.4 u
073004-CC-CD	Cafeteria	30-min Summa	30-Jul-04	6.4 u	1,200	16	11	6.4 u	6.4 u	6.4 u	6.4 u	6.4 u	6.4 u
073004-CC-SR	Cafeteria Storage Room	30-min Summa	30-Jul-04	16 u	3,700	70	68	16 u	16 u	16 u	16 u	16 u	16 u
073004-CC-E30	Outdoor Air	30-min Summa	30-Jul-04	0.80 u	54	0.94	0.80 u	0.80 u	0.80 u	0.80 u	0.80 u	0.80 u	0.80 u
Final Data from August 18, 2004 - 30-min Summa, On-Site Lab													
081804-HCC-UWS30	Under West Stairs	30-min Summa	18-Aug-04	0.73 u	3,700	30	4.6	0.73	0.73 u	0.73 u	0.73 u	0.73 u	0.73 u
081804-HCC-BR30	Boiler Room	30-min Summa	18-Aug-04	0.72 u	760	0.72 u	1.6	0.8	0.72 u	0.72 u	0.72 u	0.72 u	0.72 u
081804-HCC-BR30-D	Boiler Room - Field Dup.	30-min Summa	18-Aug-04	0.73 u	690	0.73 u	1.3	0.76	0.73 u	0.73 u	0.73 u	0.73 u	0.73 u
081804-HCC-EH30	Evidence Room Hallway	30-min Summa	18-Aug-04	0.76 u	3,500	56	15	0.89	0.76 u	0.76 u	0.76 u	0.76 u	0.76 u
081804-HCC-K30	Kitchen	30-min Summa	18-Aug-04	0.78 u	3,400	58	29	1.1	0.78 u	1.6	0.78 u	0.78 u	0.78 u
081804-HCC-KC30	Kitchen Closet	30-min Summa	18-Aug-04	0.76 u	6,100	72	41	1.4	0.76 u	1.8	0.76 u	0.76 u	0.76 u
Final Data from August 18, 2004 - 24-hour Summa, On-Site Lab													
081804-HCC-UWS	Under West Stairs	24-hr Summa	18-Aug-04	0.82 u	6,300	0.82 u	5.8	0.82 u	0.82 u	0.82 u	0.82 u	0.82 u	0.82 u
081804-HCC-BR	Boiler Room	24-hr Summa	18-Aug-04	1.4 u	260	2.6	1.4 u	1.4 u	1.4 u	1.4 u	1.4 u	1.4 u	1.4 u
081804-HCC-EH	Evidence Room Hallway	24-hr Summa	18-Aug-04	0.88 u	3,500	56	19	0.88 u	0.88 u	0.88 u	0.88 u	0.88 u	0.88 u
081804-HCC-Kitchen	Kitchen	24-hr Summa	18-Aug-04	0.86 u	2,600	39	21	1.3	0.86 u	1.60	0.86 u	0.86 u	0.86 u
081804-HCC-KitchenClo	Kitchen Closet	24-hr Summa	18-Aug-04	0.88 u	7,700	93	46	1.3	0.88 u	2.4	0.88 u	0.88 u	0.92
Final Data from August 25, 2004 - 30-min Summa, On-Site Lab													
082504-HCC-UWS30	Under West Stairs	30-min Summa	25-Aug-04	3 u	4,100	36	10	3 u	3 u	3 u	3 u	3 u	3 u
082504-HCC-BR30	Boiler Room	30-min Summa	25-Aug-04	1.2 u	1,600	13	4.1	1.2 u	1.2 u	1.2 u	1.2 u	1.2 u	1.2 u
082504-HCC-EH30	Evidence Room Hallway	30-min Summa	25-Aug-04	1.3 u	2,700	17	5.5	1.3 u	1.3 u	1.3 u	1.3 u	1.3 u	1.3 u
082504-HCC-Kitchen30	Kitchen	30-min Summa	25-Aug-04	1.2 u	1,800	11	4.8	1.2 u	1.2 u	1.2 u	1.2 u	1.2 u	1.2 u
082504-HCC-KitchenClo30	Kitchen Closet	30-min Summa	25-Aug-04	2.5 u	5,300	26	9.8	2.5 u	2.5 u	2.5 u	2.5 u	2.5 u	2.5 u
082504-HCC-E30	Outdoor Air	30-min Summa	25-Aug-04	0.61 u	5.4 u	0.61 u	0.61 u	0.61 u	0.61 u	0.61 u	0.61 u	0.61 u	0.61 u

TABLE 2-6a

Summary of Indoor Air Analytical Results By Sampling Event
Hartford Community Center

Sample ID	Location	Sample Type	Sampling Date	1,3 Butadiene	Isopentane	Hexane	Benzene	Toluene	Ethylbenzene	m,p-Xylenes	o-Xylene	1,3,5 TMB	1,2,4 TMB
Final Data from August 25, 2004 , 24-hour Summa, On-Site Lab													
082504-HCC-UWS	Under West Stairs	24-hr Summa	25-Aug-04	0.84 u	2,800	37	9.2	0.84 u	0.84 u	0.84 u	0.84 u	0.84 u	0.84 u
082504-HCC-BR	Boiler Room	24-hr Summa	25-Aug-04	0.82 u	1,600	22	5.2	0.82 u	0.82 u	0.82 u	0.82 u	0.82 u	0.82 u
082504-HCC-EH	Evidence Room Hallway	24-hr Summa	25-Aug-04	0.84 u	3,000	58	14	0.84 u	0.84 u	0.84 u	0.84 u	0.84 u	0.84 u
082504-HCC-Kitchen	Kitchen	24-hr Summa	25-Aug-04	0.82 u	2,400	42	17	0.82 u	0.82 u	1.2	0.82 u	0.82 u	0.82 u
082504-HCC-KitchenClo	Kitchen Closet	24-hr Summa	25-Aug-04	0.90 u	11,000	120	40	0.90 u	0.90 u	1.7	0.90 u	0.90 u	0.90 u
Final Data from August 27, 2004 , 30-min Summa, On-Site Lab													
082704-HCC-CafeStorage30	Cafeteria Storage Room	30-min Summa	27-Aug-04	6.40 u	1,600	32	24	6.40 u	6.40 u	6.40 u	6.40 u	6.40 u	6.40 u
082704-HCC-CafeStorage30D	Cafeteria Storage Room Field Dup.	30-min Summa	27-Aug-04	6.60 u	1,400	27	24	6.60 u	6.60 u	6.60 u	6.60 u	6.60 u	6.60 u
082704-HCC-Cafe30	Cafeteria	30-min Summa	27-Aug-04	3.10 u	570	9.1	6.7	3.10 u	3.10 u	3.10 u	3.10 u	3.10 u	3.10 u
082704-HCC-EvidenceRoom30	Evidence Room	30-min Summa	27-Aug-04	6.60 u	1,600	29	8.9	6.60 u	6.60 u	6.60 u	6.60 u	6.60 u	6.60 u
082704-HCC-EH30	Evidence Room Hallway	30-min Summa	27-Aug-04	6.30 u	1,800	32	11	6.30 u	6.30 u	1.2	6.30 u	6.30 u	6.30 u
082704-HCC-E30	Outdoor Air	30-min Summa	27-Aug-04	1.2 u	14	1.20 u	1.20 u	1.2 u	1.2 u	1.20	1.2 u	1.2 u	1.2 u
Preliminary Data from September 2, 2004 , 30-min Summa, On-Site Lab													
090204-HCC-CafeStorage30	Cafeteria Storage Room	30-min Summa	2-Sep-04	6.55 u	2,200	32.4	22.0	6.55 u	6.55 u	6.55 u	6.55 u	6.55 u	6.55 u
090204-HCC-Cafe30	Cafeteria	30-min Summa	2-Sep-04	6.45 u	1,860	25.2	13.3	6.45 u	6.45 u	6.45 u	6.45 u	6.45 u	6.45 u
090204-HCC-EvidenceRoom30	Evidence Room	30-min Summa	2-Sep-04	0.82 u	53	2.3	1.57	1.97	0.82 u	0.82 u	0.82 u	0.82 u	0.82 u
090204-HCC-EH30	Evidence Room Hallway	30-min Summa	2-Sep-04	0.745 u	72.4	2.50	1.56	2.48	0.745 u	0.839	0.745 u	0.745 u	0.745 u
090204-HCC-E30	Outdoor Air	30-min Summa	2-Sep-04	0.805 u	28.2	1.90	1.38	1.69	0.805 u	0.908	0.805 u	0.805 u	0.805 u
Preliminary Data from September 8, 2004 , 30-min Summa, On-Site Lab													
090804-HCC-CafeStorage30	Cafeteria Storage Room	30-min Summa	8-Sep-04	16.40 u	3,310	60.2	56.1	16.4 u	16.4 u	16.4 u	16.40 u	16.40 u	16.40 u
090804-HCC-Cafe30	Cafeteria	30-min Summa	8-Sep-04	6.20 u	1,230	17.8	11.60	6.20 u	6.20 u	6.20 u	6.20 u	6.20 u	6.20 u
090804-HCC-Kitchen30	Kitchen	30-min Summa	8-Sep-04	3.16 u	1,200	18	9.62	5.39	3.16 u	3.16 u	3.16 u	3.16 u	3.16 u
090804-HCC-KitchenClo30	Kitchen Closet	30-min Summa	8-Sep-04	3.28 u	1,200	17.1	9.19	4.82	3.28 u	3.28 u	3.28 u	3.28 u	3.28 u
090804-HCC-BR30	Boiler Room	30-min Summa	8-Sep-04	2.980 u	623	2.98 u	3.45	5.410	2.980 u	2.980 u	2.980 u	2.980 u	2.980 u
090804-HCC-EH30	Evidence Room Hallway	30-min Summa	8-Sep-04	0.79 u	253	3.77	2.64	4.63	0.79 u	1.74	0.79 u	0.79 u	0.79 u
090804-HCC-UWS	Under West Stairs	30-min Summa	8-Sep-04	2.02 u	541	5.44	2.97	4.96	2.02 u	2.02 u	2.02 u	2.02 u	2.02 u
090804-HCC-MensRoom30	Men's Bathroom	30-min Summa	8-Sep-04	3.10 u	821	22.8	8.05	4.70	3.10 u	3.10 u	3.10 u	3.10 u	3.10 u
090804-HCC-E30	Outdoor Air	30-min Summa	8-Sep-04	0.790 u	54.6	2.18	1.64	3.02	0.790 u	1.40	0.790 u	0.790 u	0.790 u

TABLE 2-6b

Summary of Indoor Air Analytical Results By Sampling Event
Hartford Community Center

Location	Sample Type	Sampling Date	1,3 Butadiene	Isopentane	Hexane	Benzene	Toluene	Ethylbenzene	m,p-Xylenes	o-Xylene	1,3,5 TMB	1,2,4 TMB
Boiler Room	Tedlar Bag	11-Jun-04	--	--	--	2.2	--	--	--	--	--	--
Boiler Room	30-min Summa	30-Jul-04	1.6 u	490	4.0	1.9	1.6 u	1.6 u	1.6 u	1.6 u	1.6 u	1.6 u
Boiler Room	30-min Summa	18-Aug-04	0.72 u	760	0.72 u	1.6	0.8	0.72 u	0.72 u	0.72 u	0.72 u	0.72 u
Boiler Room	24-hr Summa	25-Aug-04	0.82 u	1,600	22	5.2	0.82 u	0.82 u	0.82 u	0.82 u	0.82 u	0.82 u
Boiler Room	30-min Summa	8-Sep-04	2.980 u	623	2.98 u	3.45	5.410	2.980 u	2.980 u	2.980 u	2.980 u	2.980 u
Evidence Room Hallway	24-hr Summa	6-Apr-04	47 u	7,300	190 u	49	47 u	47 u	47 u	47 u	47 u	47 u
Evidence Room Hallway	24-hr Summa	18-Aug-04	0.88 u	3,500	56	19	0.88 u	0.88 u	0.88 u	0.88 u	0.88 u	0.88 u
Evidence Room Hallway	24-hr Summa	25-Aug-04	0.84 u	3,000	58	14	0.84 u	0.84 u	0.84 u	0.84 u	0.84 u	0.84 u
Evidence Room Hallway	30-min Summa	27-Aug-04	6.30 u	1,800	32	11	6.30 u	6.30 u	1.2	6.30 u	6.30 u	6.30 u
Evidence Room Hallway	30-min Summa	2-Sep-04	0.745 u	72.4	2.50	1.56	2.48	0.745 u	0.839	0.745 u	0.745 u	0.745 u
Evidence Room Hallway	30-min Summa	8-Sep-04	0.79 u	253	3.77	2.64	4.63	0.79 u	1.74	0.79 u	0.79 u	0.79 u
Evidence Room	30-min Summa	27-Aug-04	6.60 u	1,600	29	8.9	6.60 u	6.60 u	6.60 u	6.60 u	6.60 u	6.60 u
Evidence Room	30-min Summa	2-Sep-04	0.82 u	53	2.3	1.57	1.97	0.82 u	0.82 u	0.82 u	0.82 u	0.82 u
Under West Stairs	24-hr Summa	18-Aug-04	0.82 u	6,300	0.82 u	5.8	0.82 u	0.82 u	0.82 u	0.82 u	0.82 u	0.82 u
Under West Stairs	30-min Summa	25-Aug-04	3 u	4,100	36	10	3 u	3 u	3 u	3 u	3 u	3 u
Under West Stairs	30-min Summa	8-Sep-04	2.02 u	541	5.44	2.97	4.96	2.02 u	2.02 u	2.02 u	2.02 u	2.02 u
Cafeteria	24-hr Summa	6-Apr-04	17 u	3,200	68 u	30	17 u	17 u	17 u	17 u	17 u	17 u
Cafeteria	30-min Summa	30-Jul-04	6.4 u	1,300	19	12	6.4 u	6.4 u	6.4 u	6.4 u	6.4 u	6.4 u
Cafeteria	30-min Summa	27-Aug-04	3.10 u	570	9.1	6.7	3.10 u	3.10 u	3.10 u	3.10 u	3.10 u	3.10 u
Cafeteria	30-min Summa	2-Sep-04	6.45 u	1,860	25.2	13.3	6.45 u	6.45 u	6.45 u	6.45 u	6.45 u	6.45 u
Cafeteria	30-min Summa	8-Sep-04	6.20 u	1,230	17.8	11.60	6.20 u	6.20 u	6.20 u	6.20 u	6.20 u	6.20 u
Cafeteria Storage Room	24-hr Summa	6-Apr-04	22 u	3,400	90 u	41	22 u	22 u	22 u	22 u	22 u	22 u
Cafeteria Storage Room	30-min Summa	30-Jul-04	16 u	3,700	70	68	16 u	16 u	16 u	16 u	16 u	16 u
Cafeteria Storage Room	30-min Summa	27-Aug-04	6.40 u	1,600	32	24	6.40 u	6.40 u	6.40 u	6.40 u	6.40 u	6.40 u
Cafeteria Storage Room	30-min Summa	2-Sep-04	6.55 u	2,200	32.4	22.0	6.55 u	6.55 u	6.55 u	6.55 u	6.55 u	6.55 u
Cafeteria Storage Room	30-min Summa	8-Sep-04	16.40 u	3,310	60.2	56.1	16.4 u	16.4 u	16.4 u	16.40 u	16.40 u	16.40 u
Kitchen	Tedlar Bag	11-Jun-04	--	--	--	5.8	--	--	--	--	--	--
Kitchen	30-min Summa	18-Aug-04	0.78 u	3,400	58	29	1.1	0.78 u	1.6	0.78 u	0.78 u	0.78 u
Kitchen	24-hr Summa	25-Aug-04	0.82 u	2,400	42	17	0.82 u	0.82 u	1.2	0.82 u	0.82 u	0.82 u
Kitchen	30-min Summa	8-Sep-04	3.16 u	1,200	18	9.62	5.39	3.16 u	3.16 u	3.16 u	3.16 u	3.16 u
Kitchen Closet	24-hr Summa	18-Aug-04	0.88 u	7,700	93	46	1.3	0.88 u	2.4	0.88 u	0.88 u	0.92
Kitchen Closet	24-hr Summa	25-Aug-04	0.90 u	11,000	120	40	0.90 u	0.90 u	1.7	0.90 u	0.90 u	0.90 u
Kitchen Closet	30-min Summa	8-Sep-04	3.28 u	1,200	17.1	9.19	4.82	3.28 u	3.28 u	3.28 u	3.28 u	3.28 u
Women's Bathroom	Tedlar Bag	11-Jun-04	--	--	--	6.9	--	--	--	--	--	--
Women's Bathroom	30-min Summa	17-Jun-04	0.78 u	3,000	36	14	0.99	0.78 u	2.7	1.5	2.1	7.4

TABLE 2-6b

Summary of Indoor Air Analytical Results By Sampling Event
Hartford Community Center

Location	Sample Type	Sampling Date	1,3 Butadiene		Isopentane		Hexane		Benzene		Toluene		Ethylbenzene		m,p-Xylenes		o-Xylene		1,3,5 TMB		1,2,4 TMB	
Men's Bathroom at shower drain	30-min Summa	16-Jun-04	3.1	u	4,900		67		17		3.1	u	3.1	u	3.1	u	3.1	u	3.1	u	3.1	u
Men's Bathroom at shower drain	30-min Summa	17-Jun-04	5.2	u	34,000		250		34		5.2	u	5.2	u	5.2	u	5.2	u	5.2	u	5.2	u
Men's Bathroom	30-min Summa	8-Sep-04	3.10	u	821		22.8		8.05		4.70		3.10	u	3.10	u	3.10	u	3.10	u	3.10	u
Outdoor Air	24-hr Summa	6-Apr-04	0.92	u	84		3.7	u	2.4		1.8		0.92	u	0.92	u	0.92	u	0.92	u	0.92	u
Outdoor Air	30-min Summa	16-Jun-04	0.79	u	12		0.79	u	0.53		0.79	u	0.79	u	0.79	u	0.79	u	0.79	u	0.79	u
Outdoor Air	30-min Summa	17-Jun-04	0.82	u	3.6		0.82	u	0.82	u	0.82	u	0.82	u	0.82	u	0.82	u	0.82	u	0.82	u
Outdoor Air	30-min Summa	30-Jul-04	0.80	u	54		0.94		0.80	u	0.80	u	0.80	u	0.80	u	0.80	u	0.80	u	0.80	u
Outdoor Air	30-min Summa	25-Aug-04	0.61	u	5.4	u	0.61	u	0.61	u	0.61	u	0.61	u	0.61	u	0.61	u	0.61	u	0.61	u
Outdoor Air	30-min Summa	27-Aug-04	1.2	u	14		1.20	u	1.20	u	1.2	u	1.2	u	1.20		1.2	u	1.2	u	1.2	u
Outdoor Air	30-min Summa	2-Sep-04	0.805	u	28.2		1.90		1.38		1.69		0.805	u	0.908		0.805	u	0.805	u	0.805	u
Outdoor Air	30-min Summa	8-Sep-04	0.790	u	54.6		2.18		1.64		3.02		0.790	u	1.40		0.790	u	0.790	u	0.790	u
Additional data not used to generate Figure 2-6 (unique or one-time sample locations, field duplicates [highest value used])																						
Gymnasium - NE corner	24-hr Summa	6-Apr-04	2.1	u	350		13		3.8		2.3		2.1	u	2.1	u	2.1	u	2.1	u	2.1	u
Evidence Room Hallway - Dup.	24-hr Summa	6-Apr-04	44	u	6,700		180	u	48		44	u	44	u	44	u	44	u	44	u	44	u
Gymnasium - West end on stage	24-hr Summa	6-Apr-04	2.3	u	320		12		3.7		2.3	u	2.3	u	2.3	u	2.3	u	2.3	u	2.3	u
Sanitary Closet	Tedlar Bag	11-Jun-04	--		--		--		9.8		--		--		--		--		--		--	
Electrical outlet SE corner cafteteria	30-min Summa	16-Jun-04	29	u	32,000		65		7.5		29	u	29	u	29	u	29	u	29	u	29	u
Cafeteria	30-min Summa	30-Jul-04	6.4	u	1,200		16		11		6.4	u	6.4	u	6.4	u	6.4	u	6.4	u	6.4	u
Boiler Room - Field Dup.	30-min Summa	18-Aug-04	0.73	u	690		0.73	u	1.3		0.76		0.73	u	0.73	u	0.73	u	0.73	u	0.73	u
Cafeteria Storage Room Field Dup.	30-min Summa	27-Aug-04	6.60	u	1,400		27		24		6.60	u	6.60	u	6.60	u	6.60	u	6.60	u	6.60	u
Additional data not used to generate Figure 2-6 (non-detects, duplicate data points from same day [highest value used])																						
Boiler Room	24-hr Summa	18-Aug-04	1.4	u	260		2.6		1.4	u	1.4	u	1.4	u	1.4	u	1.4	u	1.4	u	1.4	u
Boiler Room	30-min Summa	25-Aug-04	1.2	u	1,600		13		4.1		1.2	u	1.2	u	1.2	u	1.2	u	1.2	u	1.2	u
Evidence Room Hallway	30-min Summa	18-Aug-04	0.76	u	3,500		56		15		0.89		0.76	u	0.76	u	0.76	u	0.76	u	0.76	u
Evidence Room Hallway	30-min Summa	25-Aug-04	1.3	u	2,700		17		5.5		1.3	u	1.3	u	1.3	u	1.3	u	1.3	u	1.3	u
Under West Stairs	30-min Summa	18-Aug-04	0.73	u	3,700		30		4.6		0.73		0.73	u	0.73	u	0.73	u	0.73	u	0.73	u
Under West Stairs	24-hr Summa	25-Aug-04	0.84	u	2,800		37		9.2		0.84	u	0.84	u	0.84	u	0.84	u	0.84	u	0.84	u
Kitchen	24-hr Summa	18-Aug-04	0.86	u	2,600		39		21		1.3		0.86	u	1.60		0.86	u	0.86	u	0.86	u
Kitchen	30-min Summa	25-Aug-04	1.2	u	1,800		11		4.8		1.2	u	1.2	u	1.2	u	1.2	u	1.2	u	1.2	u
Kitchen Closet	30-min Summa	18-Aug-04	0.76	u	6,100		72		41		1.4		0.76	u	1.8		0.76	u	0.76	u	0.76	u
Kitchen Closet	30-min Summa	25-Aug-04	2.5	u	5,300		26		9.8		2.5	u	2.5	u	2.5	u	2.5	u	2.5	u	2.5	u

TABLE 2-7

Summary of Outdoor Air Analytical Results
Hartford Community Center

Lab Sample ID		**0404147A-05A**			**0406315C-02A**			**0406343C-01A**		
Field Sample ID		**040604CC-BKGD**			**061604-HCC-Outside**			**061704-HCC-Outside West**		
Sample Date		**06-Apr-04**			**16-Jun-04**			**17-Jun-04**		
Sample Type		**Outdoor Air**			**Outoor Air**			**Outdoor Air**		
Sample Container		**24-Hour 6-Liter Summa Canister**			**Grab Summa Canister**			**30-min Summa Canister**		
Sample Description		**Hartford Community Center. Outdoor air sample outside northwest corner of building near west entrance.**			**Outside of Hartford Community Center building.**			**Outside of Hartford Community Center - West side of Building.**		
Compound	**Method**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**
BENZENE	TO15	--	--	--	0.79	2.6	U	0.82	2.7	U
ETHYL BENZENE	TO15	0.92	4	U	0.79	3.5	U	0.82	3.6	U
STYRENE (MONOMER)	TO15	0.92	4	U	0.79	3.4	U	0.82	3.5	U
TOLUENE	TO15	1.8	6.8		0.79	3.0	U	0.82	3.1	U
1,2,4-TRIMETHYLBENZENE	TO15	0.92	4.6	U	0.79	3.9	U	0.82	4.1	U
1,3,5-TRIMETHYLBENZENE	TO15	0.92	4.6	U	0.79	3.9	U	0.82	4.1	U
M,P-XYLENE	TO15	0.92	4	U	0.79	3.5	U	0.82	3.6	U
O-XYLENE	TO15	0.92	4	U	0.79	3.5	U	0.82	3.6	U
BUTANE	TO15	49	120		5.1	12		3.3	7.9	U
1-BUTENE	TO15	3.7	8.5	U	3.2	7.4	U	3.3	7.6	U
CIS-2-BUTENE	TO15	3.7	8.5	U	3.2	7.4	U	3.3	7.6	U
TRANS-2-BUTENE	TO15	3.7	8.5	U	3.2	7.4	U	3.3	7.6	U
CYCLOHEXANE	TO15	3.7	13	U	3.2	11	U	3.3	11	U
CYCLOPENTANE	TO15	3.7	11	U	3.2	9.2	U	3.3	9.6	U
2,2-DIMETHYLBUTANE	TO15	3.7	13	U	3.2	11	U	3.3	12	U
2,3-DIMETHYLBUTANE	TO15	4.4	16		3.2	11	U	3.3	12	U
2,3-DIMETHYLPENTANE	TO15	3.7	15	U	3.2	13	U	3.3	14	U
2,4-DIMETHYLPENTANE	TO15	3.7	15	U	3.2	13	U	3.3	14	U
HEPTANE	TO15	3.7	15	U	3.2	13	U	3.3	14	U
HEXANE	TO15	3.7	13	U	3.2	11	U	3.3	12	U
ISOPRENE	TO15	3.7	10	U	3.2	8.9	U	3.3	9.3	U
CUMENE	TO15	3.7	18	U	3.2	16	U	3.3	16	U
ISOPENTANE	TO15	84	250		12	37		3.6	11	
METHYLCYLOHEXANE	TO15	3.7	15	U	3.2	13	U	3.3	13	U
METHYLCYCLOPENTANE	TO15	3.7	13	U	3.2	11	U	3.3	11	U
2-METHYLHEPTANE	TO15	3.7	17	U	3.2	15	U	3.3	16	U
3-METHYLHEPTANE	TO15	3.7	17	U	3.2	15	U	3.3	16	U
2-METHYLHEXANE	TO15	3.7	15	U	3.2	13	U	3.3	14	U
3-METHYLHEXANE	TO15	3.7	15	U	3.2	13	U	3.3	14	U
2-METHYLPENTANE	TO15	10	36		3.2	11	U	3.3	12	U
3-METHYLPENTANE	TO15	8.2	29		3.2	11	U	3.3	12	U
ISOBUTANE	TO15	20	49		4.0	9.7		3.3	7.9	U
NONANE	TO15	3.7	20	U	3.2	17	U	3.3	17	U
OCTANE	TO15	3.7	17	U	3.2	15	U	3.3	16	U
PENTANE	TO15	20	59		3.2	9.5	U	3.3	9.8	U
1-PENTENE	TO15	3.7	11	U	3.2	9.2	U	3.3	9.6	U
CIS-2-PENTENE	TO15	3.7	11	U	3.2	9.2	U	3.3	9.6	U
TRANS-2-PENTENE	TO15	3.7	11	U	3.2	9.2	U	3.3	9.6	U
PROPYLBENZENE	TO15	3.7	18	U	3.2	16	U	3.3	16	U
2,2,4-TRIMETHYLPENTANE	TO15	3.7	17	U	3.2	15	U	3.3	16	U
2,3,4-TRIMETHYLPENTANE	TO15	3.7	17	U	3.2	15	U	3.3	16	U
1-HEXENE	TO15	3.7	13	U	3.2	11	U	3.3	11	U
3-ETHYLTOLUENE	TO15	3.7	18	U	3.2	16	U	3.3	16	U
4-ETHYLTOLUENE	TO15	3.7	18	U	3.2	16	U	3.3	16	U
2-ETHYLTOLUENE	TO15	3.7	18	U	3.2	16	U	3.3	16	U
DECANE	TO15	3.7	22	U	3.2	19	U	3.3	19	U
1,2,3-TRIMETHYLBENZENE	TO15	3.7	18	U	3.2	16	U	3.3	16	U
1,3-DIETHYLBENZENE	TO15	3.7	20	U	3.2	18	U	3.3	18	U
1,4-DIETHYLBENZENE	TO15	3.7	20	U	3.2	18	U	3.3	18	U
UNDECANE	TO15	3.7	24	U	3.2	20	U	3.3	21	U
CIS-2-HEXENE	TO15	9.2	32	U	7.9	28	U	8.2	29	U
TRANS-2-HEXENE	TO15	9.2	32	U	7.9	28	U	8.2	29	U
ALPHA-PINENE	TO15	9.2	52	U	7.9	45	U	8.2	46	U
BETA-PINENE	TO15	9.2	52	U	7.9	45	U	8.2	46	U
CYCLOPENTENE	TO15	3.7	10	U	3.2	8.9	U	3.3	9.3	U
1-UNDECENE	TO15	9.2	58	U	7.9	50	U	8.2	52	U
1-DECENE	TO15	9.2	53	U	7.9	46	U	8.2	48	U
1-NONENE	TO15	3.7	19	U	3.2	16	U	3.3	17	U
1-OCTENE	TO15	3.7	17	U	3.2	15	U	3.3	15	U
1-HEPTENE	TO15	3.7	15	U	3.2	13	U	3.3	13	U
1,3-BUTADIENE	TO15	0.92	2	U	0.79	1.8	U	0.82	1.8	U
Lab Sample ID		**0404147D-05A**			**0406315A-02A**					
Field Sample ID		**040604CC-BKGD**			**061604-HCC-Outside**					
BENZENE (Rerun)	TO15	2.4	7.7		0.53	1.7		--	--	--
Lab Sample ID		**0404147B-05A**			**0406315D-02A**			**0406343D-01A**		
Field Sample ID		**040604CC-BKGD**			**061604-HCC-Outside**			**061704-HCC-Outside West**		
ETHANE	M@82	92	--	U	79	--	U	82	--	U
ETHYLENE	M@82	92	--	U	79	--	U	82	--	U
ACETYLENE	M@82	92	--	U	79	--	U	82	--	U
PROPANE	M@82	92	--	U	79	--	U	82	--	U
PROPYLENE	M@82	92	--	U	79	--	U	82	--	U
Lab Sample ID		**0404147C-05A**			**0406315E-02A**			**0406343E-01A**		
Field Sample ID		**040604CC-BKGD**			**061604-HCC-Outside**			**061704-HCC-Outside West**		
Compound	**Method**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**
METHANE	D1946	0.00044	4400	2,900	0.00026	2,600	1,700	0.00021	2,100	1,400

TABLE 2-7

Summary of Outdoor Air Analytical Results
Hartford Community Center

Lab Sample ID		**0407380-01A**			**0408414D-06A**			**0408419-13A**		
Field Sample ID		**073004-CC-E30**			**082504/HCC-E30**			**082704-HCC-E30**		
Sample Date		**30-Jul-04**			**25-Aug-04**			**27-Aug-04**		
Sample Type		**Outdoor Air**			**Outdoor Air**			**Outdoor Air**		
Sample Container		**30-min Summa Canister**			**30-min Summa Canister**			**30-min Summa Canister**		
Sample Description		**Outdoor Air**			**Outdoor Air**			**Outdoor Air**		
Compound	**Method**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**
BENZENE	TO15	0.80	2.6	U	0.61	2.0	U	1.2	4.0	U
ETHYL BENZENE	TO15	0.80	3.6	U	0.61	2.7	U	1.2	5.5	U
STYRENE (MONOMER)	TO15	--	--	--	--	--	--	--	--	--
TOLUENE	TO15	0.80	3.1	U	0.61	2.3	U	1.2	4.8	U
1,2,4-TRIMETHYLBENZENE	TO15	0.80	4.0	U	0.61	3.0	U	1.2	6.2	U
1,3,5-TRIMETHYLBENZENE	TO15	0.80	4.0	U	0.61	3.0	U	1.2	6.2	U
M,P-XYLENE	TO15	0.80	3.6	U	0.61	2.7	U	1.2	5.5	U
O-XYLENE	TO15	0.80	3.6	U	0.61	2.7	U	1.2	5.5	U
BUTANE	TO15	--	--	--	--	--	--	--	--	--
1-BUTENE	TO15	--	--	--	--	--	--	--	--	--
CIS-2-BUTENE	TO15	--	--	--	--	--	--	--	--	--
TRANS-2-BUTENE	TO15	--	--	--	--	--	--	--	--	--
CYCLOHEXANE	TO15	--	--	--	--	--	--	--	--	--
CYCLOPENTANE	TO15	--	--	--	--	--	--	--	--	--
2,2-DIMETHYLBUTANE	TO15	--	--	--	--	--	--	--	--	--
2,3-DIMETHYLBUTANE	TO15	--	--	--	--	--	--	--	--	--
2,3-DIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
2,4-DIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
HEPTANE	TO15	--	--	--	--	--	--	--	--	--
HEXANE	TO15	0.94	3.4		0.61	2.2	U	1.2	4.5	U
ISOPRENE	TO15	--	--	--	--	--	--	--	--	--
CUMENE	TO15	--	--	--	--	--	--	--	--	--
ISOPENTANE	TO15	54	160		5.4	16	U	14	42	
METHYLCYLOHEXANE	TO15	--	--	--	--	--	--	--	--	--
METHYLCYCLOPENTANE	TO15	--	--	--	--	--	--	--	--	--
2-METHYLHEPTANE	TO15	--	--	--	--	--	--	--	--	--
3-METHYLHEPTANE	TO15	--	--	--	--	--	--	--	--	--
2-METHYLHEXANE	TO15	--	--	--	--	--	--	--	--	--
3-METHYLHEXANE	TO15	--	--	--	--	--	--	--	--	--
2-METHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
3-METHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
ISOBUTANE	TO15	--	--	--	--	--	--	--	--	--
NONANE	TO15	--	--	--	--	--	--	--	--	--
OCTANE	TO15	--	--	--	--	--	--	--	--	--
PENTANE	TO15	--	--	--	--	--	--	--	--	--
1-PENTENE	TO15	--	--	--	--	--	--	--	--	--
CIS-2-PENTENE	TO15	--	--	--	--	--	--	--	--	--
TRANS-2-PENTENE	TO15	--	--	--	--	--	--	--	--	--
PROPYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
2,2,4-TRIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
2,3,4-TRIMETHYLPENTANE	TO15	--	--	--	--	--	--	--	--	--
1-HEXENE	TO15	--	--	--	--	--	--	--	--	--
3-ETHYLTOLUENE	TO15	--	--	--	--	--	--	--	--	--
4-ETHYLTOLUENE	TO15	--	--	--	--	--	--	--	--	--
2-ETHYLTOLUENE	TO15	--	--	--	--	--	--	--	--	--
DECANE	TO15	--	--	--	--	--	--	--	--	--
1,2,3-TRIMETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
1,3-DIETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
1,4-DIETHYLBENZENE	TO15	--	--	--	--	--	--	--	--	--
UNDECANE	TO15	--	--	--	--	--	--	--	--	--
CIS-2-HEXENE	TO15	--	--	--	--	--	--	--	--	--
TRANS-2-HEXENE	TO15	--	--	--	--	--	--	--	--	--
ALPHA-PINENE	TO15	--	--	--	--	--	--	--	--	--
BETA-PINENE	TO15	--	--	--	--	--	--	--	--	--
CYCLOPENTENE	TO15	--	--	--	--	--	--	--	--	--
1-UNDECENE	TO15	--	--	--	--	--	--	--	--	--
1-DECENE	TO15	--	--	--	--	--	--	--	--	--
1-NONENE	TO15	--	--	--	--	--	--	--	--	--
1-OCTENE	TO15	--	--	--	--	--	--	--	--	--
1-HEPTENE	TO15	--	--	--	--	--	--	--	--	--
1,3-BUTADIENE	TO15	0.80	1.8	U	0.61	1.4	U	1.2	2.8	U
Lab Sample ID										
Field Sample ID										
BENZENE (Rerun)	TO15	--	--	--	--	--	--	--	--	--
Lab Sample ID										
Field Sample ID										
ETHANE	M@82	--	--	--	--	--	--	--	--	--
ETHYLENE	M@82	--	--	--	--	--	--	--	--	--
ACETYLENE	M@82	--	--	--	--	--	--	--	--	--
PROPANE	M@82	--	--	--	--	--	--	--	--	--
PROPYLENE	M@82	--	--	--	--	--	--	--	--	--
Lab Sample ID					**0408414F-06A**					
Field Sample ID					**082504/HCC-E30**					
Compound	**Method**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**
METHANE	D1946	--	--	--	0.00019	--	--	--	--	--

TABLE 2-7

Summary of Outdoor Air Analytical Results
Hartford Community Center

Lab Sample ID							
Field Sample ID		**090204-HCC-E30**			**090804-HCC-E30**		
Sample Date		**02-Sep-04**			**08-Sep-04**		
Sample Type		**Outdoor Air**			**Outdoor Air**		
Sample Container		**30-min Summa Canister**			**30-min Summa Canister**		
Sample Description		**Preliminary Outdoor Air**			**Preliminary Outdoor Air**		
Compound	**Method**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**
BENZENE	TO15	1.38			1.64		
ETHYL BENZENE	TO15	0.805		U	0.790		U
STYRENE (MONOMER)	TO15	--	--	--	--	--	--
TOLUENE	TO15	1.69			3.02		
1,2,4-TRIMETHYLBENZENE	TO15	0.805		U	0.790		U
1,3,5-TRIMETHYLBENZENE	TO15	0.805		U	0.790		U
M,P-XYLENE	TO15	0.908			1.40		
O-XYLENE	TO15	0.805		U	0.790		U
BUTANE	TO15	--	--	--	--	--	--
1-BUTENE	TO15	--	--	--	--	--	--
CIS-2-BUTENE	TO15	--	--	--	--	--	--
TRANS-2-BUTENE	TO15	--	--	--	--	--	--
CYCLOHEXANE	TO15	--	--	--	--	--	--
CYCLOPENTANE	TO15	--	--	--	--	--	--
2,2-DIMETHYLBUTANE	TO15	--	--	--	--	--	--
2,3-DIMETHYLBUTANE	TO15	--	--	--	--	--	--
2,3-DIMETHYLPENTANE	TO15	--	--	--	--	--	--
2,4-DIMETHYLPENTANE	TO15	--	--	--	--	--	--
HEPTANE	TO15	--	--	--	--	--	--
HEXANE	TO15	1.90			2.18		
ISOPRENE	TO15	--	--	--	--	--	--
CUMENE	TO15	--	--	--	--	--	--
ISOPENTANE	TO15	28.2			54.6		
METHYLCYLOHEXANE	TO15	--	--	--	--	--	--
METHYLCYCLOPENTANE	TO15	--	--	--	--	--	--
2-METHYLHEPTANE	TO15	--	--	--	--	--	--
3-METHYLHEPTANE	TO15	--	--	--	--	--	--
2-METHYLHEXANE	TO15	--	--	--	--	--	--
3-METHYLHEXANE	TO15	--	--	--	--	--	--
2-METHYLPENTANE	TO15	--	--	--	--	--	--
3-METHYLPENTANE	TO15	--	--	--	--	--	--
ISOBUTANE	TO15	--	--	--	--	--	--
NONANE	TO15	--	--	--	--	--	--
OCTANE	TO15	--	--	--	--	--	--
PENTANE	TO15	--	--	--	--	--	--
1-PENTENE	TO15	--	--	--	--	--	--
CIS-2-PENTENE	TO15	--	--	--	--	--	--
TRANS-2-PENTENE	TO15	--	--	--	--	--	--
PROPYLBENZENE	TO15	--	--	--	--	--	--
2,2,4-TRIMETHYLPENTANE	TO15	--	--	--	--	--	--
2,3,4-TRIMETHYLPENTANE	TO15	--	--	--	--	--	--
1-HEXENE	TO15	--	--	--	--	--	--
3-ETHYLTOLUENE	TO15	--	--	--	--	--	--
4-ETHYLTOLUENE	TO15	--	--	--	--	--	--
2-ETHYLTOLUENE	TO15	--	--	--	--	--	--
DECANE	TO15	--	--	--	--	--	--
1,2,3-TRIMETHYLBENZENE	TO15	--	--	--	--	--	--
1,3-DIETHYLBENZENE	TO15	--	--	--	--	--	--
1,4-DIETHYLBENZENE	TO15	--	--	--	--	--	--
UNDECANE	TO15	--	--	--	--	--	--
CIS-2-HEXENE	TO15	--	--	--	--	--	--
TRANS-2-HEXENE	TO15	--	--	--	--	--	--
ALPHA-PINENE	TO15	--	--	--	--	--	--
BETA-PINENE	TO15	--	--	--	--	--	--
CYCLOPENTENE	TO15	--	--	--	--	--	--
1-UNDECENE	TO15	--	--	--	--	--	--
1-DECENE	TO15	--	--	--	--	--	--
1-NONENE	TO15	--	--	--	--	--	--
1-OCTENE	TO15	--	--	--	--	--	--
1-HEPTENE	TO15	--	--	--	--	--	--
1,3-BUTADIENE	TO15	0.805		U	0.790		U
Lab Sample ID							
Field Sample ID							
BENZENE (Rerun)	TO15	--	--	--	--	--	--
Lab Sample ID							
Field Sample ID							
ETHANE	M@82	--	--	--	--	--	--
ETHYLENE	M@82	--	--	--	--	--	--
ACETYLENE	M@82	--	--	--	--	--	--
PROPANE	M@82	--	--	--	--	--	--
PROPYLENE	M@82	--	--	--	--	--	--
Lab Sample ID							
Field Sample ID							
Compound	**Method**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**
METHANE	D1946	--	--	--	--	--	--

TABLE 2-8a

Summary of Soil Vapor Analytical Results - March And April 2004
Hartford Community Center

Vapor Monitoring Point / Depth		Meter Pad			VMP-2D			VMP-3		
Lab Sample ID		0403173A-01A			0403326A-01A			0403326A-02A		
Field Sample ID		Meter Pad			VMP-2D			VMP-3		
Sample Date		08-Mar-04			17-Mar-04			17-Mar-04		
Sample Type		Soil Vapor			Soil Vapor			Soil Vapor		
Sample Container		Grab 6-L Summa & 1-L Tedlar			Grab 5-Liter Tedlar Bag			Grab 5-Liter Tedlar Bag		
Sample Description		Hartford Community Center. Adjacent to natural gas meter outside storage room at southwest corner of building.			Hartford Community Center. Vapor monitoring point VMP-2D adjacent to central sewer on West Arbor Street.			Hartford Community Center. Vapor monitoring point VMP-3 between the western and central sewer manholes on West Arbor.		
Compound	**Method**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**
BENZENE	TO15	34,000	110,000	U	100,000	320,000	U	20,000	65,000	U
ETHYL BENZENE	TO15	34,000	150,000	U	100,000	440,000	U	20,000	88,000	U
STYRENE (MONOMER)	TO15	34,000	150,000	U	100,000	430,000	U	20,000	86,000	U
TOLUENE	TO15	34,000	130,000	U	100,000	380,000	U	20,000	76,000	U
1,2,4-TRIMETHYLBENZENE	TO15	34,000	170,000	U	100,000	500,000	U	20,000	100,000	U
1,3,5-TRIMETHYLBENZENE	TO15	34,000	170,000	U	100,000	500,000	U	20,000	100,000	U
M,P-XYLENE	TO15	34,000	150,000	U	100,000	440,000	U	20,000	88,000	U
O-XYLENE	TO15	34,000	150,000	U	100,000	440,000	U	20,000	88,000	U
BUTANE	TO15	710,000	1,700,000		1,200,000	2,800,000		1,100,000	2,800,000	
1-BUTENE	TO15	140,000	320,000	U	400,000	930,000	U	80,000	190,000	U
CIS-2-BUTENE	TO15	140,000	320,000	U	400,000	930,000	U	80,000	190,000	U
TRANS-2-BUTENE	TO15	140,000	320,000	U	400,000	930,000	U	80,000	190,000	U
CYCLOHEXANE	TO15	140,000	480,000	U	400,000	1,400,000	U	80,000	280,000	U
CYCLOPENTANE	TO15	140,000	400,000	U	400,000	1,200,000	U	80,000	230,000	U
2,2-DIMETHYLBUTANE	TO15	140,000	490,000	U	400,000	1,400,000	U	80,000	290,000	U
2,3-DIMETHYLBUTANE	TO15	250,000	890,000		810,000	2,900,000		100,000	360,000	
2,3-DIMETHYLPENTANE	TO15	180,000	740,000		540,000	2,200,000		80,000	330,000	U
2,4-DIMETHYLPENTANE	TO15	140,000	570,000	U	400,000	1,700,000	U	80,000	330,000	U
HEPTANE	TO15	140,000	570,000	U	400,000	1,700,000	U	80,000	330,000	U
HEXANE	TO15	140,000	490,000	U	400,000	1,400,000	U	82,000	290,000	
ISOPRENE	TO15	140,000	390,000	U	400,000	1,100,000	U	80,000	230,000	U
CUMENE	TO15	140,000	680,000	U	400,000	2,000,000	U	80,000	400,000	U
ISOPENTANE	TO15	3,900,000	12,000,000		13,000,000	40,000,000		1,900,000	5,700,000	
METHYLCYLOHEXANE	TO15	140,000	560,000	U	400,000	1,600,000	U	80,000	330,000	U
METHYLCYCLOPENTANE	TO15	140,000	480,000	U	400,000	1,400,000	U	80,000	280,000	U
2-METHYLHEPTANE	TO15	140,000	650,000	U	400,000	1,900,000	U	80,000	380,000	U
3-METHYLHEPTANE	TO15	140,000	650,000	U	400,000	1,900,000	U	80,000	380,000	U
2-METHYLHEXANE	TO15	140,000	570,000	U	400,000	1,700,000	U	80,000	330,000	U
3-METHYLHEXANE	TO15	140,000	570,000	U	400,000	1,700,000	U	80,000	330,000	U
2-METHYLPENTANE	TO15	180,000	650,000		400,000	1,400,000	U	300,000	1,100,000	
3-METHYLPENTANE	TO15	430,000	1,500,000		1,600,000	5,700,000		180,000	660,000	
ISOBUTANE	TO15	870,000	2,100,000		2,800,000	6,800,000		390,000	930,000	
NONANE	TO15	140,000	730,000	U	400,000	2,100,000	U	80,000	430,000	U
OCTANE	TO15	140,000	650,000	U	400,000	1,900,000	U	80,000	380,000	U
PENTANE	TO15	150,000	450,000		440,000	1,300,000		610,000	1,800,000	
1-PENTENE	TO15	140,000	400,000	U	400,000	1,200,000	U	80,000	230,000	U
CIS-2-PENTENE	TO15	140,000	400,000	U	400,000	1,200,000	U	80,000	230,000	U
TRANS-2-PENTENE	TO15	140,000	400,000	U	400,000	1,200,000	U	80,000	230,000	U
PROPYLBENZENE	TO15	140,000	680,000	U	400,000	2,000,000	U	80,000	400,000	U
2,2,4-TRIMETHYLPENTANE	TO15	150,000	730,000		440,000	2,100,000		80,000	380,000	U
2,3,4-TRIMETHYLPENTANE	TO15	140,000	650,000	U	400,000	1,900,000	U	80,000	380,000	U
1-HEXENE	TO15	140,000	480,000	U	400,000	1,400,000	U	80,000	280,000	U
3-ETHYLTOLUENE	TO15	140,000	680,000	U	400,000	2,000,000	U	80,000	400,000	U
4-ETHYLTOLUENE	TO15	140,000	680,000	U	400,000	2,000,000	U	80,000	400,000	U
2-ETHYLTOLUENE	TO15	140,000	680,000	U	400,000	2,000,000	U	80,000	400,000	U
DECANE	TO15	140,000	810,000	U	400,000	2,400,000	U	80,000	470,000	U
1,2,3-TRIMETHYLBENZENE	TO15	140,000	680,000	U	400,000	2,000,000	U	80,000	400,000	U
1,3-DIETHYLBENZENE	TO15	140,000	760,000	U	400,000	2,200,000	U	80,000	440,000	U
1,4-DIETHYLBENZENE	TO15	140,000	760,000	U	400,000	2,200,000	U	80,000	450,000	U
UNDECANE	TO15	140,000	890,000	U	400,000	2,600,000	U	80,000	520,000	U
CIS-2-HEXENE	TO15	--	--	--	1,000,000	3,500,000	U	200,000	700,000	U
TRANS-2-HEXENE	TO15	--	--	--	1,000,000	3,500,000	U	200,000	700,000	U
ALPHA-PINENE	TO15	--	--	--	1,000,000	5,700,000	U	200,000	1,100,000	U
BETA-PINENE	TO15	--	--	--	1,000,000	5,700,000	U	200,000	1,100,000	U
CYCLOPENTENE	TO15	--	--	--	400,000	1,100,000	U	80,000	230,000	U
1-UNDECENE	TO15	--	--	--	1,000,000	6,400,000	U	200,000	1,300,000	U
1-DECENE	TO15	--	--	--	1,000,000	5,800,000	U	200,000	1,200,000	U
1-NONENE	TO15	--	--	--	400,000	2,100,000	U	80,000	420,000	U
1-OCTENE	TO15	--	--	--	400,000	1,900,000	U	80,000	370,000	U
1-HEPTENE	TO15	--	--	--	400,000	1,600,000	U	80,000	330,000	U
1,3-BUTADIENE	TO15	--	--	--	100,000	220,000	U	20,000	45,000	U
Lab Sample ID		**0403173E-01A**			**0403326B-01A**			**0403326B-02A**		
Field Sample ID		**Meter Pad**			**VMP-2D**			**VMP-3**		
BENZENE (Rerun)	TO15	8.6	28	U	20	65	U	5	16	U
Lab Sample ID		**0403173C-01A**			**0403326D-01A**			**0403326D-02A**		
Field Sample ID		**Meter Pad**			**VMP-2D**			**VMP-3**		
ETHANE	M@82	43,000	--		190,000	--		23,000	--	
ETHYLENE	M@82	1,100	--		300	--	U	360	--	
ACETYLENE	M@82	86	--	U	300	--	U	50	--	U
PROPANE	M@82	34,000	--		260,000	--		40,000	--	
PROPYLENE	M@82	86	--	U	300	--	U	240	--	
Lab Sample ID		**0403173D-01A**			**0403326E-01A**			**0403326E-02A**		
Field Sample ID		**Meter Pad**			**VMP-2D**			**VMP-3**		
HYDROGEN SULFIDE	D-5504	10	--	U	3,000	--		10	--	U
Lab Sample ID		**0403173B-01A**			**0403326C-01A**			**0403326C-02A**		
Field Sample ID		**Meter Pad**			**VMP-2D**			**VMP-3**		
Compound	**Method**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**
METHANE	D-1946	15	150,000,000	100,000,000	36	360,000,000	240,000,000	2.8	28,000,000	19,000,000

TABLE 2-8a

Summary of Soil Vapor Analytical Results - March And April 2004
Hartford Community Center

Vapor Monitoring Point / Depth		VMP-1D			VMP-2S			VMP-2D		
Lab Sample ID		0404188A-17A			0404188A-19A			0404188A-16A		
Field Sample ID		040804CC-VMP1-D			040804CC-VMP2-S			040804CC-VMP2-D		
Sample Date		08-Apr-04			08-Apr-04			08-Apr-04		
Sample Type		Soil Vapor			Soil Vapor			Soil Vapor		
Sample Container		Grab 6-Liter Summa Canister			Grab 6-Liter Summa Canister			Grab 6-Liter Summa Canister		
Sample Description		Hartford Community Center. Soil vapor monitoring point VMP-1D adjacent to eastern sewer manhole on West Arbor Street.			Hartford Community Center. Soil vapor monitoring point VMP-2S adjacent to central sewer manhole on West Arbor Street.			Hartford Community Center. Soil vapor monitoring point VMP-2D adjacent to central sewer manhole on West Arbor Street.		
Compound	**Method**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**
BENZENE	TO15	--	--	--	--	--	--	--	--	--
ETHYL BENZENE	TO15	100,000	440,000	U	1,600	6,800	U	160,000	680,000	U
STYRENE (MONOMER)	TO15	100,000	440,000	U	1,600	6,700	U	160,000	670,000	U
TOLUENE	TO15	100,000	380,000	U	1,600	5,900	U	160,000	590,000	U
1,2,4-TRIMETHYLBENZENE	TO15	100,000	500,000	U	1,600	7,700	U	160,000	770,000	U
1,3,5-TRIMETHYLBENZENE	TO15	100,000	500,000	U	1,600	7,700	U	160,000	770,000	U
M,P-XYLENE	TO15	100,000	440,000	U	1,600	6,800	U	160,000	680,000	U
O-XYLENE	TO15	100,000	440,000	U	1,600	6,800	U	160,000	680,000	U
BUTANE	TO15	5,700,000	14,000,000		26,000	63,000		620,000	1,500,000	U
1-BUTENE	TO15	400,000	940,000	U	6,200	14,000	U	620,000	1,400,000	U
CIS-2-BUTENE	TO15	400,000	940,000	U	6,200	14,000	U	620,000	1,400,000	U
TRANS-2-BUTENE	TO15	400,000	940,000	U	6,200	14,000	U	620,000	1,400,000	U
CYCLOHEXANE	TO15	400,000	1,400,000	U	6,200	22,000	U	620,000	2,200,000	U
CYCLOPENTANE	TO15	400,000	1,200,000	U	6,200	18,000	U	620,000	1,800,000	U
2,2-DIMETHYLBUTANE	TO15	400,000	1,400,000	U	6,200	22,000	U	620,000	2,200,000	U
2,3-DIMETHYLBUTANE	TO15	650,000	2,300,000		12,000	44,000		860,000	3,100,000	
2,3-DIMETHYLPENTANE	TO15	600,000	2,500,000		6,200	26,000	U	620,000	2,600,000	U
2,4-DIMETHYLPENTANE	TO15	400,000	1,700,000	U	6,200	26,000	U	620,000	2,600,000	U
HEPTANE	TO15	400,000	1,700,000	U	6,200	26,000	U	620,000	2,600,000	U
HEXANE	TO15	400,000	1,400,000	U	6,200	22,000	U	620,000	2,200,000	U
ISOPRENE	TO15	400,000	1,100,000	U	6,200	18,000	U	620,000	1,800,000	U
CUMENE	TO15	400,000	2,000,000	U	6,200	31,000	U	620,000	3,100,000	U
ISOPENTANE	TO15	########	46,000,000		280,000	840,000		18,000,000	54,000,000	
METHYLCYLOHEXANE	TO15	400,000	1,600,000	U	6,200	25,000	U	620,000	2,500,000	U
METHYLCYCLOPENTANE	TO15	480,000	1,700,000		6,200	22,000	U	620,000	2,200,000	U
2-METHYLHEPTANE	TO15	400,000	1,900,000	U	6,200	29,000	U	620,000	2,900,000	U
3-METHYLHEPTANE	TO15	400,000	1,900,000	U	6,200	29,000	U	620,000	2,900,000	U
2-METHYLHEXANE	TO15	400,000	1,700,000	U	6,200	26,000	U	620,000	2,600,000	U
3-METHYLHEXANE	TO15	400,000	1,700,000	U	6,200	26,000	U	620,000	2,600,000	U
2-METHYLPENTANE	TO15	660,000	2,400,000		6,900	25,000		620,000	2,200,000	U
3-METHYLPENTANE	TO15	1,500,000	5,500,000		23,000	82,000		1,900,000	6,900,000	
ISOBUTANE	TO15	2,600,000	6,200,000		74,000	180,000		4,000,000	9,600,000	
NONANE	TO15	400,000	2,100,000	U	6,200	33,000	U	620,000	3,300,000	U
OCTANE	TO15	400,000	1,900,000	U	6,200	29,000	U	620,000	2,900,000	U
PENTANE	TO15	1,300,000	3,800,000		6,800	20,000		620,000	1,800,000	U
1-PENTENE	TO15	400,000	1,200,000	U	6,200	18,000	U	620,000	1,800,000	U
CIS-2-PENTENE	TO15	400,000	1,200,000	U	6,200	18,000	U	620,000	1,800,000	U
TRANS-2-PENTENE	TO15	400,000	1,200,000	U	6,200	18,000	U	620,000	1,800,000	U
PROPYLBENZENE	TO15	400,000	2,000,000	U	6,200	31,000	U	620,000	3,100,000	U
2,2,4-TRIMETHYLPENTANE	TO15	500,000	2,400,000		6,200	29,000	U	620,000	2,900,000	U
2,3,4-TRIMETHYLPENTANE	TO15	400,000	1,900,000	U	6,200	29,000	U	620,000	2,900,000	U
1-HEXENE	TO15	400,000	1,400,000	U	6,200	22,000	U	620,000	2,200,000	U
3-ETHYLTOLUENE	TO15	400,000	2,000,000	U	6,200	31,000	U	620,000	3,100,000	U
4-ETHYLTOLUENE	TO15	400,000	2,000,000	U	6,200	31,000	U	620,000	3,100,000	U
2-ETHYLTOLUENE	TO15	400,000	2,000,000	U	6,200	31,000	U	620,000	3,100,000	U
DECANE	TO15	400,000	2,400,000	U	6,200	37,000	U	620,000	3,700,000	U
1,2,3-TRIMETHYLBENZENE	TO15	400,000	2,000,000	U	6,200	31,000	U	620,000	3,100,000	U
1,3-DIETHYLBENZENE	TO15	400,000	2,200,000	U	6,200	34,000	U	620,000	3,400,000	U
1,4-DIETHYLBENZENE	TO15	400,000	2,200,000	U	6,200	34,000	U	620,000	3,400,000	U
UNDECANE	TO15	400,000	2,600,000	U	6,200	40,000	U	620,000	4,000,000	U
CIS-2-HEXENE	TO15	1,000,000	3,500,000	U	16,000	54,000	U	1,600,000	5,400,000	U
TRANS-2-HEXENE	TO15	1,000,000	3,500,000	U	16,000	54,000	U	1,600,000	5,400,000	U
ALPHA-PINENE	TO15	1,000,000	5,700,000	U	16,000	88,000	U	1,600,000	8,800,000	U
BETA-PINENE	TO15	1,000,000	5,700,000	U	16,000	88,000	U	1,600,000	8,800,000	U
CYCLOPENTENE	TO15	400,000	1,100,000	U	6,200	18,000	U	620,000	1,800,000	U
1-UNDECENE	TO15	1,000,000	6,400,000	U	16,000	99,000	U	1,600,000	9,900,000	U
1-DECENE	TO15	1,000,000	5,900,000	U	16,000	90,000	U	1,600,000	9,000,000	U
1-NONENE	TO15	400,000	2,100,000	U	6,200	32,000	U	620,000	3,200,000	U
1-OCTENE	TO15	400,000	1,900,000	U	6,200	29,000	U	620,000	2,900,000	U
1-HEPTENE	TO15	400,000	1,600,000	U	6,200	25,000	U	620,000	2,500,000	U
1,3-BUTADIENE	TO15	100,000	220,000	U	1,600	3,500	U	160,000	350,000	U
Lab Sample ID		0404188D-17A			0404188D-19A			0404188D-16A		
Field Sample ID		040804CC-VMP1-D			040804CC-VMP2-S			040804CC-VMP2-D		
BENZENE (Rerun)	TO15	4,000	13,000		7.5	24		1.2	4	U
Lab Sample ID		0404188B-17A			0404188B-19A			0404188B-16A		
Field Sample ID		040804CC-VMP1-D			040804CC-VMP2-S			040804CC-VMP2-D		
ETHANE	M@82	130,000	--		5,200	--		190,000	--	
ETHYLENE	M@82	32,000	--	U	1,000	--	U	62,000	--	U
ACETYLENE	M@82	32,000	--	U	1,000	--	U	62,000	--	U
PROPANE	M@82	71,000	--		5,000	--		240,000	--	
PROPYLENE	M@82	32,000	--	U	1,000	--	U	62,000	--	U
Lab Sample ID										
Field Sample ID										
HYDROGEN SULFIDE	D-5504	--	--	--	--	--	--	--	--	--
Lab Sample ID		0404188C-17A			0404188C-19A			0404188C-16A		
Field Sample ID		040804CC-VMP1-D			040804CC-VMP2-S			040804CC-VMP2-D		
Compound	**Method**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**
METHANE	D-1946	51	510,000,000	340,000,000	1.1	11,000,000.0	7,300,000	40	400,000,000	270,000,000

TABLE 2-8a

Summary of Soil Vapor Analytical Results - March And April 2004
Hartford Community Center

Vapor Monitoring Point / Depth		VMP-3			VMP-6S			VMP-6M		
Lab Sample ID		0404188A-18A			0404188A-12A			0404188A-13A		
Field Sample ID		040804CC-VMP3			040804CC-VMP6-S			040804CC-VMP6-M		
Sample Date		08-Apr-04			08-Apr-04			08-Apr-04		
Sample Type		Soil Vapor			Soil Vapor			Soil Vapor		
Sample Container		Grab 6-Liter Summa Canister			Grab 6-Liter Summa Canister			Grab 6-Liter Summa Canister		
Sample Description		Hartford Community Center. Soil vapor monitoring point VMP-3, between west and central sewer manholes West Arbor Street.			Hartford Community Center. Shallow soil vapor monitoring point VMP-6S northwest of building.			Hartford Community Center. Middle soil vapor monitoring point VMP-6M northwest of building.		
Compound	**Method**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**
BENZENE	TO15	--	--	--	--	--	--	--	--	--
ETHYL BENZENE	TO15	80,000	360,000	U	20,000	87,000	U	10,000	46,000	U
STYRENE (MONOMER)	TO15	80,000	350,000	U	20,000	86,000	U	10,000	45,000	U
TOLUENE	TO15	80,000	310,000	U	20,000	76,000	U	10,000	40,000	U
1,2,4-TRIMETHYLBENZENE	TO15	80,000	400,000	U	20,000	99,000	U	10,000	52,000	U
1,3,5-TRIMETHYLBENZENE	TO15	80,000	400,000	U	20,000	99,000	U	10,000	52,000	U
M,P-XYLENE	TO15	80,000	360,000	U	43,000	190,000		10,000	46,000	U
O-XYLENE	TO15	80,000	360,000	U	20,000	87,000	U	10,000	46,000	U
BUTANE	TO15	7,700,000	18,000,000		1,200,000	3,000,000		530,000	1,300,000	
1-BUTENE	TO15	320,000	750,000	U	79,000	180,000	U	42,000	97,000	U
CIS-2-BUTENE	TO15	320,000	750,000	U	79,000	180,000	U	42,000	97,000	U
TRANS-2-BUTENE	TO15	320,000	750,000	U	79,000	180,000	U	42,000	97,000	U
CYCLOHEXANE	TO15	320,000	1,100,000	U	92,000	320,000		42,000	140,000	U
CYCLOPENTANE	TO15	320,000	940,000	U	110,000	310,000		42,000	120,000	U
2,2-DIMETHYLBUTANE	TO15	320,000	1,200,000	U	79,000	280,000	U	42,000	150,000	U
2,3-DIMETHYLBUTANE	TO15	770,000	2,800,000		220,000	810,000		84,000	300,000	
2,3-DIMETHYLPENTANE	TO15	420,000	1,800,000		240,000	1,000,000		88,000	370,000	
2,4-DIMETHYLPENTANE	TO15	320,000	1,300,000	U	130,000	550,000		47,000	190,000	
HEPTANE	TO15	320,000	1,300,000	U	130,000	550,000		42,000	170,000	U
HEXANE	TO15	650,000	2,300,000		550,000	2,000,000		190,000	670,000	
ISOPRENE	TO15	320,000	910,000	U	79,000	220,000	U	42,000	120,000	U
CUMENE	TO15	320,000	1,600,000	U	79,000	390,000	U	42,000	210,000	U
ISOPENTANE	TO15	14,000,000	44,000,000		3,200,000	9,600,000		1,300,000	3,800,000	
METHYLCYLOHEXANE	TO15	320,000	1,300,000	U	79,000	320,000	U	42,000	170,000	U
METHYLCYCLOPENTANE	TO15	570,000	2,000,000		300,000	1,000,000		100,000	360,000	
2-METHYLHEPTANE	TO15	320,000	1,500,000	U	79,000	380,000	U	42,000	200,000	U
3-METHYLHEPTANE	TO15	320,000	1,500,000	U	79,000	370,000	U	42,000	200,000	U
2-METHYLHEXANE	TO15	320,000	1,300,000	U	170,000	720,000		58,000	240,000	
3-METHYLHEXANE	TO15	350,000	1,400,000		190,000	780,000		65,000	270,000	
2-METHYLPENTANE	TO15	2,800,000	9,900,000		910,000	3,300,000		330,000	1,200,000	
3-METHYLPENTANE	TO15	1,600,000	5,900,000		540,000	1,900,000		190,000	690,000	
ISOBUTANE	TO15	2,900,000	7,000,000		310,000	760,000		130,000	320,000	
NONANE	TO15	320,000	1,700,000	U	79,000	420,000	U	42,000	220,000	U
OCTANE	TO15	320,000	1,500,000	U	79,000	380,000	U	42,000	200,000	U
PENTANE	TO15	5,200,000	15,000,000		1,500,000	4,600,000		560,000	1,700,000	
1-PENTENE	TO15	320,000	940,000	U	79,000	230,000	U	42,000	120,000	U
CIS-2-PENTENE	TO15	320,000	940,000	U	79,000	230,000	U	42,000	120,000	U
TRANS-2-PENTENE	TO15	320,000	940,000	U	100,000	290,000		42,000	120,000	U
PROPYLBENZENE	TO15	320,000	1,600,000	U	79,000	390,000	U	42,000	210,000	U
2,2,4-TRIMETHYLPENTANE	TO15	320,000	1,500,000	U	180,000	840,000		64,000	300,000	
2,3,4-TRIMETHYLPENTANE	TO15	320,000	1,500,000	U	79,000	380,000	U	42,000	200,000	U
1-HEXENE	TO15	320,000	1,100,000	U	79,000	280,000	U	42,000	140,000	U
3-ETHYLTOLUENE	TO15	320,000	1,600,000	U	79,000	390,000	U	42,000	210,000	U
4-ETHYLTOLUENE	TO15	320,000	1,600,000	U	79,000	390,000	U	42,000	210,000	U
2-ETHYLTOLUENE	TO15	320,000	1,600,000	U	79,000	390,000	U	42,000	210,000	U
DECANE	TO15	320,000	1,900,000	U	79,000	470,000	U	42,000	250,000	U
1,2,3-TRIMETHYLBENZENE	TO15	320,000	1,600,000	U	79,000	390,000	U	42,000	210,000	U
1,3-DIETHYLBENZENE	TO15	320,000	1,800,000	U	79,000	440,000	U	42,000	230,000	U
1,4-DIETHYLBENZENE	TO15	320,000	1,800,000	U	79,000	440,000	U	42,000	230,000	U
UNDECANE	TO15	320,000	2,100,000	U	79,000	510,000	U	42,000	270,000	U
CIS-2-HEXENE	TO15	800,000	2,800,000	U	200,000	690,000	U	100,000	360,000	U
TRANS-2-HEXENE	TO15	800,000	2,800,000	U	200,000	690,000	U	100,000	360,000	U
ALPHA-PINENE	TO15	800,000	4,600,000	U	200,000	1,100,000	U	100,000	590,000	U
BETA-PINENE	TO15	800,000	4,600,000	U	200,000	1,100,000	U	100,000	590,000	U
CYCLOPENTENE	TO15	320,000	910,000	U	79,000	220,000	U	42,000	120,000	U
1-UNDECENE	TO15	800,000	5,200,000	U	200,000	1,300,000	U	100,000	660,000	U
1-DECENE	TO15	800,000	4,700,000	U	200,000	1,200,000	U	100,000	610,000	U
1-NONENE	TO15	320,000	1,700,000	U	79,000	410,000	U	42,000	220,000	U
1-OCTENE	TO15	320,000	1,500,000	U	79,000	370,000	U	42,000	190,000	U
1-HEPTENE	TO15	320,000	1,300,000	U	79,000	320,000	U	42,000	170,000	U
1,3-BUTADIENE	TO15	80,000	180,000	U	20,000	44,000	U	10,000	23,000	U
Lab Sample ID		0404188D-18A			0404188D-12A			0404188D-13A		
Field Sample ID		040804CC-VMP3			040804CC-VMP6-S			040804CC-VMP6-M		
BENZENE (Rerun)	TO15	2.6	8.4	U	120,000	390,000		38,000	120,000	
Lab Sample ID		0404188B-18A			0404188B-12A			0404188B-13A		
Field Sample ID		040804CC-VMP3			040804CC-VMP6-S			040804CC-VMP6-M		
ETHANE	M@82	120,000	--		4,900	--		2,700	--	
ETHYLENE	M@82	110,000	--	U	4,500	--	U	1,800	--	U
ACETYLENE	M@82	110,000	--	U	4,500	--	U	1,800	--	U
PROPANE	M@82	220,000	--		4,500	--	U	1,800	--	U
PROPYLENE	M@82	110,000	--	U	4,500	--	U	1,800	--	U
Lab Sample ID										
Field Sample ID										
HYDROGEN SULFIDE	D-5504	--	--	--	--	--	--	--	--	--
Lab Sample ID		0404188C-18A			0404188C-12A			0404188C-13A		
Field Sample ID		040804CC-VMP3			040804CC-VMP6-S			040804CC-VMP6-M		
Compound	**Method**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**
METHANE	D-1946	15	150,000,000	100,000,000	1.4	14,000,000	9,300,000	0.83	8,300,000	5,500,000

TABLE 2-8a

Summary of Soil Vapor Analytical Results - March And April 2004
Hartford Community Center

Vapor Monitoring Point / Depth		VMP-6D			VMP-6D			VMP-7		
Lab Sample ID		0404188A-14A			0404188A-15A			0404188A-08A		
Field Sample ID		040804CC-VMP6-D			040804CC-VMP-D-D			040804CC-VMP7		
Sample Date		08-Apr-04			08-Apr-04			08-Apr-04		
Sample Type		Soil Vapor			Soil Vapor			Soil Vapor		
Sample Container		Grab 6-Liter Summa Canister			Grab 6-Liter Summa Canister			Grab 6-Liter Summa Canister		
Sample Description		Hartford Community Center. Deep soil vapor monitoring point VMP-6D northwest of building.			Hartford Community Center. Field Duplicate of 040804CC-VMP6-D.			Hartford Community Center. Soil vapor monitoring point VMP-7 at west side of property.		
Compound	**Method**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**
BENZENE	TO15	--	--	--	--	--	--	--	--	--
ETHYL BENZENE	TO15	12,000	53,000	U	12,000	54,000	U	200,000	860,000	U
STYRENE (MONOMER)	TO15	12,000	52,000	U	12,000	53,000	U	200,000	850,000	U
TOLUENE	TO15	12,000	46,000	U	12,000	47,000	U	200,000	750,000	U
1,2,4-TRIMETHYLBENZENE	TO15	12,000	60,000	U	12,000	61,000	U	200,000	980,000	U
1,3,5-TRIMETHYLBENZENE	TO15	12,000	60,000	U	12,000	61,000	U	200,000	980,000	U
M,P-XYLENE	TO15	20,000	87,000		22,000	98,000		200,000	860,000	U
O-XYLENE	TO15	12,000	53,000	U	12,000	54,000	U	200,000	860,000	U
BUTANE	TO15	720,000	1,700,000		870,000	2,100,000		32,000,000	78,000,000	
1-BUTENE	TO15	48,000	110,000	U	49,000	110,000	U	780,000	1,800,000	U
CIS-2-BUTENE	TO15	48,000	110,000	U	49,000	110,000	U	780,000	1,800,000	U
TRANS-2-BUTENE	TO15	48,000	110,000	U	49,000	110,000	U	780,000	1,800,000	U
CYCLOHEXANE	TO15	48,000	170,000	U	49,000	170,000	U	780,000	2,700,000	U
CYCLOPENTANE	TO15	54,000	160,000		64,000	190,000		780,000	2,300,000	U
2,2-DIMETHYLBUTANE	TO15	48,000	170,000	U	49,000	170,000	U	780,000	2,800,000	U
2,3-DIMETHYLBUTANE	TO15	120,000	410,000		140,000	500,000		1,600,000	5,600,000	
2,3-DIMETHYLPENTANE	TO15	110,000	470,000		140,000	570,000		1,000,000	4,300,000	
2,4-DIMETHYLPENTANE	TO15	67,000	280,000		82,000	340,000		780,000	3,300,000	U
HEPTANE	TO15	62,000	260,000		76,000	320,000		780,000	3,300,000	U
HEXANE	TO15	290,000	1,000,000		340,000	1,200,000		1,600,000	5,600,000	
ISOPRENE	TO15	48,000	140,000	U	49,000	140,000	U	780,000	2,200,000	U
CUMENE	TO15	48,000	240,000	U	49,000	240,000	U	780,000	3,900,000	U
ISOPENTANE	TO15	1,800,000	5,400,000		2,100,000	6,400,000		31,000,000	93,000,000	
METHYLCYLOHEXANE	TO15	48,000	200,000	U	49,000	200,000	U	780,000	3,200,000	U
METHYLCYCLOPENTANE	TO15	140,000	490,000		160,000	540,000		900,000	3,100,000	
2-METHYLHEPTANE	TO15	48,000	230,000	U	49,000	230,000	U	780,000	3,700,000	U
3-METHYLHEPTANE	TO15	48,000	230,000	U	49,000	230,000	U	780,000	3,700,000	U
2-METHYLHEXANE	TO15	86,000	360,000		100,000	420,000		780,000	3,300,000	U
3-METHYLHEXANE	TO15	90,000	370,000		110,000	440,000		780,000	3,300,000	U
2-METHYLPENTANE	TO15	480,000	1,700,000		580,000	2,100,000		4,900,000	17,000,000	
3-METHYLPENTANE	TO15	270,000	980,000		320,000	1,200,000		2,600,000	9,400,000	
ISOBUTANE	TO15	160,000	400,000		230,000	550,000		5,400,000	13,000,000	
NONANE	TO15	48,000	260,000	U	49,000	260,000	U	780,000	4,200,000	U
OCTANE	TO15	48,000	230,000	U	49,000	230,000	U	780,000	3,700,000	U
PENTANE	TO15	870,000	2,600,000		1,000,000	3,100,000		10,000,000	32,000,000	
1-PENTENE	TO15	48,000	140,000	U	49,000	140,000	U	780,000	2,300,000	U
CIS-2-PENTENE	TO15	48,000	140,000	U	49,000	140,000	U	780,000	2,300,000	U
TRANS-2-PENTENE	TO15	65,000	190,000		77,000	220,000		780,000	2,300,000	U
PROPYLBENZENE	TO15	48,000	240,000	U	49,000	240,000	U	780,000	3,900,000	U
2,2,4-TRIMETHYLPENTANE	TO15	93,000	440,000		110,000	530,000		780,000	3,700,000	U
2,3,4-TRIMETHYLPENTANE	TO15	48,000	230,000	U	49,000	230,000	U	780,000	3,700,000	U
1-HEXENE	TO15	48,000	170,000	U	49,000	170,000	U	780,000	2,700,000	U
3-ETHYLTOLUENE	TO15	48,000	240,000	U	49,000	240,000	U	780,000	3,900,000	U
4-ETHYLTOLUENE	TO15	48,000	240,000	U	49,000	240,000	U	780,000	3,900,000	U
2-ETHYLTOLUENE	TO15	48,000	240,000	U	49,000	240,000	U	780,000	3,900,000	U
DECANE	TO15	48,000	280,000	U	49,000	290,000	U	780,000	4,600,000	U
1,2,3-TRIMETHYLBENZENE	TO15	48,000	240,000	U	49,000	240,000	U	780,000	3,900,000	U
1,3-DIETHYLBENZENE	TO15	48,000	270,000	U	49,000	270,000	U	780,000	4,400,000	U
1,4-DIETHYLBENZENE	TO15	48,000	270,000	U	49,000	270,000	U	780,000	4,400,000	U
UNDECANE	TO15	48,000	310,000	U	49,000	320,000	U	780,000	5,100,000	U
CIS-2-HEXENE	TO15	120,000	420,000	U	120,000	430,000	U	2,000,000	6,800,000	U
TRANS-2-HEXENE	TO15	120,000	420,000	U	120,000	430,000	U	2,000,000	6,800,000	U
ALPHA-PINENE	TO15	120,000	680,000	U	120,000	690,000	U	2,000,000	11,000,000	U
BETA-PINENE	TO15	120,000	680,000	U	120,000	690,000	U	2,000,000	11,000,000	U
CYCLOPENTENE	TO15	48,000	140,000	U	49,000	140,000	U	780,000	2,200,000	U
1-UNDECENE	TO15	120,000	770,000	U	120,000	780,000	U	2,000,000	12,000,000	U
1-DECENE	TO15	120,000	700,000	U	120,000	710,000	U	2,000,000	11,000,000	U
1-NONENE	TO15	48,000	250,000	U	49,000	260,000	U	780,000	4,100,000	U
1-OCTENE	TO15	48,000	220,000	U	49,000	230,000	U	780,000	3,600,000	U
1-HEPTENE	TO15	48,000	200,000	U	49,000	200,000	U	780,000	3,200,000	U
1,3-BUTADIENE	TO15	12,000	27,000	U	12,000	27,000	U	200,000	440,000	U
Lab Sample ID		0404188D-14A			0404188D-15A			0404188D-08A		
Field Sample ID		040804CC-VMP6-D			040804CC-VMP-D-D			040804CC-VMP7		
BENZENE (Rerun)	TO15	82,000	260,000		83,000	270,000		27,000	87,000	
Lab Sample ID		0404188B-14A			0404188B-15A			0404188B-08A		
Field Sample ID		040804CC-VMP6-D			040804CC-VMP-D-D			040804CC-VMP7		
ETHANE	M@82	2,900	--		3,000	--		140,000	--	
ETHYLENE	M@82	2,200	--	U	2,300	--	U	78,000	--	U
ACETYLENE	M@82	2,200	--	U	2,300	--	U	78,000	--	U
PROPANE	M@82	2,400	--		2,400	--		460,000	--	
PROPYLENE	M@82	2,200	--	U	2,300	--	U	78,000	--	U
Lab Sample ID										
Field Sample ID										
HYDROGEN SULFIDE	D-5504	--	--	--	--	--	--	--	--	--
Lab Sample ID		0404188C-14A			0404188C-15A			0404188C-08A		
Field Sample ID		040804CC-VMP6-D			040804CC-VMP-D-D			040804CC-VMP7		
Compound	**Method**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**
METHANE	D-1946	0.84	8,400,000	5,600,000	0.84	8,400,000	5,600,000	52	520,000,000	350,000,000

TABLE 2-8a

Summary of Soil Vapor Analytical Results - March And April 2004
Hartford Community Center

Vapor Monitoring Point / Depth		VMP-8			VMP-9			VMP-10		
Lab Sample ID		0404188A-07A			0404188A-09A			0404188A-11A		
Field Sample ID		040804CC-VMP8			040804CC-VMP9			040804CC-VMP10		
Sample Date		08-Apr-04			08-Apr-04			08-Apr-04		
Sample Type		Soil Vapor			Soil Vapor			Soil Vapor		
Sample Container		Grab 6-Liter Summa Canister			Grab 6-Liter Summa Canister			Grab 6-Liter Summa Canister		
Sample Description		Hartford Community Center. Soil vapor monitoring point VMP-8 at southwest corner of property.			Hartford Community Center. Soil vapor monitoring point VMP-9 in center of parking lot south of building.			Hartford Community Center. Soil vapor monitoring point VMP-10 adjacent to storm sewer east of building.		
Compound	**Method**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**
BENZENE	TO15	--	--	--	--	--	--	--	--	--
ETHYL BENZENE	TO15	17	74	U	88,000	390,000	U	1.6	7.1	U
STYRENE (MONOMER)	TO15	17	73	U	88,000	380,000	U	1.6	7	U
TOLUENE	TO15	17	64	U	88,000	340,000	U	2	7.9	
1,2,4-TRIMETHYLBENZENE	TO15	17	84	U	88,000	440,000	U	1.6	8	U
1,3,5-TRIMETHYLBENZENE	TO15	17	84	U	88,000	440,000	U	1.6	8	U
M,P-XYLENE	TO15	17	74	U	88,000	390,000	U	2.5	11	
O-XYLENE	TO15	17	74	U	88,000	390,000	U	1.6	7.1	U
BUTANE	TO15	1,600	3,800		6,700,000	16,000,000		170	410	
1-BUTENE	TO15	67	160	U	350,000	820,000	U	6.4	15	U
CIS-2-BUTENE	TO15	67	160	U	350,000	820,000	U	6.4	15	U
TRANS-2-BUTENE	TO15	67	160	U	350,000	820,000	U	6.4	15	U
CYCLOHEXANE	TO15	67	240	U	350,000	1,200,000	U	6.4	22	U
CYCLOPENTANE	TO15	67	200	U	350,000	1,000,000	U	6.4	19	U
2,2-DIMETHYLBUTANE	TO15	67	240	U	350,000	1,200,000	U	6.4	23	U
2,3-DIMETHYLBUTANE	TO15	120	450		530,000	1,900,000		7.3	26	
2,3-DIMETHYLPENTANE	TO15	67	280	U	460,000	1,900,000		9.6	40	
2,4-DIMETHYLPENTANE	TO15	67	280	U	350,000	1,400,000	U	6.4	27	U
HEPTANE	TO15	67	280	U	350,000	1,400,000	U	6.4	27	U
HEXANE	TO15	67	240	U	350,000	1,200,000	U	27	98	
ISOPRENE	TO15	67	190	U	350,000	990,000	U	6.4	18	U
CUMENE	TO15	67	340	U	350,000	1,700,000	U	6.4	32	U
ISOPENTANE	TO15	2,600	7,700		11,000,000	34,000,000		140	410	
METHYLCYLOHEXANE	TO15	67	270	U	350,000	1,400,000	U	6.4	26	U
METHYLCYCLOPENTANE	TO15	67	240	U	410,000	1,400,000		9.8	34	
2-METHYLHEPTANE	TO15	67	320	U	350,000	1,700,000	U	6.4	30	U
3-METHYLHEPTANE	TO15	67	320	U	350,000	1,600,000	U	6.4	30	U
2-METHYLHEXANE	TO15	67	280	U	350,000	1,400,000	U	8.2	34	
3-METHYLHEXANE	TO15	67	280	U	350,000	1,400,000	U	8.8	36	
2-METHYLPENTANE	TO15	250	890		850,000	3,000,000		39	140	
3-METHYLPENTANE	TO15	180	650		1,200,000	4,200,000		23	83	
ISOBUTANE	TO15	500	1,200		4,400,000	10,000,000		12	30	
NONANE	TO15	67	360	U	350,000	1,900,000	U	6.4	34	U
OCTANE	TO15	67	320	U	350,000	1,700,000	U	6.4	30	U
PENTANE	TO15	330	1,000		1,200,000	3,600,000		100	300	
1-PENTENE	TO15	67	200	U	350,000	1,000,000	U	6.4	19	U
CIS-2-PENTENE	TO15	67	200	U	350,000	1,000,000	U	6.4	19	U
TRANS-2-PENTENE	TO15	67	200	U	350,000	1,000,000	U	6.4	19	U
PROPYLBENZENE	TO15	67	340	U	350,000	1,700,000	U	6.4	32	U
2,2,4-TRIMETHYLPENTANE	TO15	67	320	U	440,000	2,100,000		6.4	30	U
2,3,4-TRIMETHYLPENTANE	TO15	67	320	U	350,000	1,700,000	U	6.4	30	U
1-HEXENE	TO15	67	240	U	350,000	1,200,000	U	6.4	22	U
3-ETHYLTOLUENE	TO15	67	340	U	350,000	1,700,000	U	6.4	32	U
4-ETHYLTOLUENE	TO15	67	340	U	350,000	1,700,000	U	6.4	32	U
2-ETHYLTOLUENE	TO15	67	340	U	350,000	1,700,000	U	6.4	32	U
DECANE	TO15	67	400	U	350,000	2,100,000	U	6.4	38	U
1,2,3-TRIMETHYLBENZENE	TO15	67	340	U	350,000	1,700,000	U	6.4	32	U
1,3-DIETHYLBENZENE	TO15	67	370	U	350,000	1,900,000	U	6.4	36	U
1,4-DIETHYLBENZENE	TO15	67	370	U	350,000	2,000,000	U	6.4	36	U
UNDECANE	TO15	67	440	U	350,000	2,300,000	U	6.4	42	U
CIS-2-HEXENE	TO15	170	590	U	880,000	3,000,000	U	16	56	U
TRANS-2-HEXENE	TO15	170	590	U	880,000	3,100,000	U	16	56	U
ALPHA-PINENE	TO15	170	950	U	880,000	5,000,000	U	16	91	U
BETA-PINENE	TO15	170	950	U	880,000	5,000,000	U	16	91	U
CYCLOPENTENE	TO15	67	190	U	350,000	990,000	U	6.4	18	U
1-UNDECENE	TO15	170	1,100	U	880,000	5,600,000	U	16	100	U
1-DECENE	TO15	170	980	U	880,000	5,100,000	U	16	94	U
1-NONENE	TO15	67	350	U	350,000	1,800,000	U	6.4	34	U
1-OCTENE	TO15	67	310	U	350,000	1,600,000	U	6.4	30	U
1-HEPTENE	TO15	67	270	U	350,000	1,400,000	U	6.4	26	U
1,3-BUTADIENE	TO15	17	38	U	88,000	200,000	U	1.6	3.6	U
Lab Sample ID		0404188D-07A			0404188D-09A			0404188D-11A		
Field Sample ID		040804CC-VMP8			040804CC-VMP9			040804CC-VMP10		
BENZENE (Rerun)	TO15	0.81	2.6		9,500	31,000		1.5	4.8	
Lab Sample ID		0404188B-07A			0404188B-09A			0404188B-11A		
Field Sample ID		040804CC-VMP8			040804CC-VMP9			040804CC-VMP10		
ETHANE	M@82	84	--	U	110,000	--		80	--	U
ETHYLENE	M@82	84	--	U	70,000	--	U	80	--	U
ACETYLENE	M@82	84	--	U	70,000	--	U	80	--	U
PROPANE	M@82	84	--	U	89,000	--		80	--	U
PROPYLENE	M@82	84	--	U	70,000	--	U	80	--	U
Lab Sample ID										
Field Sample ID										
HYDROGEN SULFIDE	D-5504	--	--	--	--	--	--	--	--	--
Lab Sample ID		0404188C-07A			0404188C-09A			0404188C-11A		
Field Sample ID		040804CC-VMP8			040804CC-VMP9			040804CC-VMP10		
Compound	**Method**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**
METHANE	D-1946	0.01	100,000	67,000	47	470,000,000	310,000,000	0.00041	4,100	2,700

TABLE 2-8b

Summary of Soil Vapor Analytical Results (Sample Collected July 29, 2004)
Hartford Community Center

Vapor Monitoring Point		VMP-1D			VMP-2S			VMP-2D		
Lab Sample ID		0408033A-20A			0408033A-18A			0408033A-19A		
Field Sample ID		072904VMP-1-D			072904VMP-2-S			072904VMP-2-D		
Sample Date		29-Jul-04			29-Jul-04			29-Jul-04		
Sample Type		Soil Vapor			Soil Vapor			Soil Vapor		
Sample Container		Grab 6-L Summa			Grab 6-L Summa			Grab 6-L Summa		
Sample Description		Hartford Community Center. Soil vapor monitoring point VMP-1-D adjacent to eastern sewer manhole on West Arbor Street.			Hartford Community Center. Soil vapor monitoring point VMP-2-S adjacent to central sewer manhole on West Arbor Street.			Hartford Community Center. Vapor monitoring point VMP-2-D adjacent to central sewer on West Arbor Street.		
Compound	**Method**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**
BENZENE	TO15	170,000	540,000	U	200	640		120,000	390,000	U
ETHYL BENZENE	TO15	170,000	740,000	U	60	270		120,000	530,000	U
STYRENE (MONOMER)	TO15	170,000	730,000	U	7.3	32	U	120,000	520,000	U
TOLUENE	TO15	170,000	640,000	U	7.3	28	U	300,000	1,100,000	
1,2,4-TRIMETHYLBENZENE	TO15	170,000	840,000	U	76	380		120,000	600,000	U
1,3,5-TRIMETHYLBENZENE	TO15	170,000	840,000	U	35	170		120,000	600,000	U
M,P-XYLENE	TO15	170,000	740,000	U	140	600		120,000	530,000	U
O-XYLENE	TO15	170,000	740,000	U	7.3	32	U	120,000	530,000	U
CYCLOHEXANE	TO15	670,000	2,400,000	U	130	450		480,000	1,700,000	U
CYCLOPENTANE	TO15	670,000	2,000,000	U	92	270		480,000	1,400,000	U
2,2-DIMETHYLBUTANE	TO15	670,000	2,400,000	U	440	1,600		480,000	1,700,000	U
2,3-DIMETHYLBUTANE	TO15	880,000	3,200,000		180	640		1,000,000	3,600,000	
2,3-DIMETHYLPENTANE	TO15	760,000	3,200,000		340	1,400		610,000	2,600,000	
2,4-DIMETHYLPENTANE	TO15	670,000	2,800,000	U	160	650		480,000	2,000,000	U
HEPTANE	TO15	670,000	2,800,000	U	320	1,300		480,000	2,000,000	U
HEXANE	TO15	670,000	2,400,000	U	620	2,200		480,000	1,700,000	U
ISOPRENE	TO15	670,000	1,900,000	U	29	83	U	480,000	1,400,000	U
CUMENE	TO15	670,000	3,400,000	U	29	140	U	480,000	2,400,000	U
ISOPENTANE	TO15	14,000,000	41,000,000		1,100	3,300		13,000,000	40,000,000	
METHYLCYLOHEXANE	TO15	670,000	2,700,000	U	180	760		480,000	2,000,000	U
METHYLCYCLOPENTANE	TO15	670,000	2,400,000	U	340	1,200		480,000	1,700,000	U
2-METHYLHEPTANE	TO15	670,000	3,200,000	U	140	660		480,000	2,300,000	U
3-METHYLHEPTANE	TO15	670,000	3,200,000	U	160	760		480,000	2,300,000	U
2-METHYLHEXANE	TO15	670,000	2,800,000	U	300	1,300		480,000	2,000,000	U
3-METHYLHEXANE	TO15	670,000	2,800,000	U	330	1,400		480,000	2,000,000	U
2-METHYLPENTANE	TO15	670,000	2,400,000	U	610	2,200		510,000	1,800,000	
3-METHYLPENTANE	TO15	1,800,000	6,500,000		420	1,500		1,900,000	6,900,000	
NONANE	TO15	670,000	3,600,000	U	75	400		480,000	2,500,000	U
OCTANE	TO15	670,000	3,200,000	U	130	600		480,000	2,300,000	U
PENTANE	TO15	670,000	2,000,000	U	720	2,200		480,000	1,400,000	U
1-PENTENE	TO15	670,000	2,000,000	U	29	85	U	480,000	1,400,000	U
CIS-2-PENTENE	TO15	670,000	2,000,000	U	260	760		480,000	1,400,000	U
TRANS-2-PENTENE	TO15	670,000	2,000,000	U	70	200		480,000	1,400,000	U
PROPYLBENZENE	TO15	670,000	3,400,000	U	47	240		480,000	2,400,000	U
2,2,4-TRIMETHYLPENTANE	TO15	670,000	3,200,000	U	550	2,600		480,000	2,300,000	
2,3,4-TRIMETHYLPENTANE	TO15	670,000	3,200,000	U	150	690		480,000	2,300,000	U
1-HEXENE	TO15	670,000	2,400,000	U	29	100	U	480,000	1,700,000	U
3-ETHYLTOLUENE	TO15	670,000	3,400,000	U	39	200		480,000	2,400,000	U
4-ETHYLTOLUENE	TO15	670,000	3,400,000	U	37	190		480,000	2,400,000	U
2-ETHYLTOLUENE	TO15	670,000	3,400,000	U	35	170		480,000	2,400,000	U
DECANE	TO15	670,000	4,000,000	U	55	320		480,000	2,800,000	U
1,2,3-TRIMETHYLBENZENE	TO15	670,000	3,400,000	U	29	140	U	480,000	2,400,000	U
1,3-DIETHYLBENZENE	TO15	670,000	3,700,000	U	29	160	U J	480,000	2,700,000	U
1,4-DIETHYLBENZENE	TO15	670,000	3,700,000	U	29	160	U J	480,000	2,700,000	U
UNDECANE	TO15	670,000	4,400,000	U	29	190	U	480,000	3,100,000	U
CIS-2-HEXENE	TO15	1,700,000	5,900,000	U	73	250	U	1,200,000	4,200,000	U
TRANS-2-HEXENE	TO15	1,700,000	5,900,000	U	73	260	U	1,200,000	4,200,000	U
ALPHA-PINENE	TO15	1,700,000	9,500,000	U	73	410	U	1,200,000	6,800,000	U
BETA-PINENE	TO15	1,700,000	9,500,000	U	73	410	U	1,200,000	6,800,000	U
CYCLOPENTENE	TO15	670,000	1,900,000	U	29	83	U	480,000	1,400,000	U
1-UNDECENE	TO15	1,700,000	11,000,000	U	73	470	U	1,200,000	7,600,000	U J
1-DECENE	TO15	1,700,000	9,800,000	U	73	420	U	1,200,000	7,000,000	U
1-NONENE	TO15	670,000	3,500,000	U	29	150	U	480,000	2,500,000	U
1-OCTENE	TO15	670,000	3,100,000	U	29	140	U	480,000	2,200,000	U
1-HEPTENE	TO15	670,000	2,700,000	U	29	120	U	480,000	2,000,000	U
1,3-BUTADIENE	TO15	170,000	380,000	U	7.3	16	U	120,000	270,000	U
Lab Sample ID		0408033D-20A						0408033D-19A		
Field Sample ID		072904VMP-1-D						072904VMP-2-D		
BENZENE (Rerun)	TO-15	8,200	26,000		--	--	--	360	1,200	U
Lab Sample ID		0408033C-20A			0408033C-18A			0408033C-19A		
Field Sample ID		072904VMP-1-D			072904VMP-2-S			072904VMP-2-D		
ISOBUTANE	TO-14A	2,600,000	6,400,000		120	280		4,100,000	9,800,000	
BUTANE	TO-14A	4,600,000	11,000,000		490	1,200		4,100	9,800	
TRANS-2-BUTENE	TO-14A	1,100	2,600	U	11	26		1,000	2,400	U
1-BUTENE	TO-14A	1,100	2,600	U	3.7	8.5	U	1,000	2,400	U
CIS-2-BUTENE	TO-14A	1,100	2,600	U	4.7	11		1,000	2,400	U
ACETYLENE	TO-14A	2,800	3,000	U	9.2	9.9	U	2,600	2,800	U
ETHENE	TO-14A	2,800	3,300	U	9.2	11	U	2,600	3,000	U
PROPANE	TO-14A	72,000	130,000		13	24		190,000	350,000	
ETHANE	TO-14A	150,000	190,000		31	38		200,000	250,000	
PROPYLENE	TO-14A	2,800	4,900	U	9.2	16	U	2,600	4,500	U
Lab Sample ID		0408033B-20A			0408033B-18A			0408033B-19A		
Field Sample ID		072904VMP-1-D			072904VMP-2-S			072904VMP-2-D		
Compound	**Method**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**
OXYGEN	D-1946	4.9	--	--	21	--	--	1.4	--	--
METHANE	D-1946	54	540,000,000	360,000,000	0.15	1,500,000	1,000,000	44	440,000,000	290,000,000
CARBON DIOXIDE	D-1946	14	--	--	0.17	--	--	16	--	--

TABLE 2-8b

Summary of Soil Vapor Analytical Results (Sample Collected July 29, 2004)
Hartford Community Center

Vapor Monitoring Point		VMP-3			VMP-6S			VMP-6M		
Lab Sample ID		0408033A-17A			0408033A-12A			0408033A-13A		
Field Sample ID		072904VMP-3			072904VMP-6-S			072904VMP-6-M		
Sample Date		29-Jul-04			29-Jul-04			29-Jul-04		
Sample Type		Soil Vapor			Soil Vapor			Soil Vapor		
Sample Container		Grab 6-L Summa			Grab 6-L Summa			Grab 6-L Summa		
Sample Description		Hartford Community Center. Soil vapor monitoirng point VMP-3, between west and central sewer manholes West Arbor Street.			Hartford Community Center. Shallow soil vapor monitoring point VMP-6-S northwest of building.			Hartford Community Center. Middle soil vapor monitoring point VMP-6-M northwest of building.		
Compound	**Method**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**
BENZENE	TO15	11,000	35,000	U	230,000	740,000		240,000	790,000	U
ETHYL BENZENE	TO15	11,000	47,000	U	170,000	750,000	U	240,000	1,100,000	U
STYRENE (MONOMER)	TO15	11,000	46,000	U	170,000	740,000	U	240,000	1,000,000	U
TOLUENE	TO15	11,000	41,000	U	300,000	1,200,000		920,000	3,500,000	
1,2,4-TRIMETHYLBENZENE	TO15	11,000	54,000	U	170,000	850,000	U	240,000	1,200,000	U
1,3,5-TRIMETHYLBENZENE	TO15	11,000	54,000	U	170,000	850,000	U	240,000	1,200,000	U
M,P-XYLENE	TO15	11,000	47,000	U	170,000	750,000	U	240,000	1,100,000	U
O-XYLENE	TO15	11,000	47,000	U	170,000	750,000	U	240,000	1,100,000	U
CYCLOHEXANE	TO15	43,000	150,000	U	680,000	2,400,000	U	980,000	3,400,000	U
CYCLOPENTANE	TO15	43,000	120,000	U	680,000	2,000,000	U	980,000	2,800,000	U
2,2-DIMETHYLBUTANE	TO15	150,000	540,000		680,000	2,400,000	U	980,000	3,500,000	U
2,3-DIMETHYLBUTANE	TO15	420,000	1,500,000		880,000	3,200,000		1,400,000	5,000,000	
2,3-DIMETHYLPENTANE	TO15	260,000	1,100,000		680,000	2,800,000	U	980,000	4,100,000	U
2,4-DIMETHYLPENTANE	TO15	190,000	790,000		680,000	2,800,000	U	980,000	4,100,000	U
HEPTANE	TO15	43,000	180,000	U	680,000	2,800,000	U	980,000	4,100,000	U
HEXANE	TO15	43,000	150,000	U	2,300,000	8,200,000		3,400,000	12,000,000	
ISOPRENE	TO15	43,000	120,000	U	680,000	1,900,000	U	980,000	2,800,000	U
CUMENE	TO15	43,000	210,000	U	680,000	3,400,000	U	980,000	4,900,000	U
ISOPENTANE	TO15	1,800,000	5,500,000		15,000,000	44,000,000		20,000,000	58,000,000	
METHYLCYLOHEXANE	TO15	43,000	180,000	U	680,000	2,800,000	U	980,000	4,000,000	U
METHYLCYCLOPENTANE	TO15	43,000	150,000	U	680,000	2,400,000	U	980,000	3,400,000	U
2-METHYLHEPTANE	TO15	43,000	200,000	U	680,000	3,200,000	U	980,000	4,600,000	U
3-METHYLHEPTANE	TO15	43,000	200,000	U	680,000	3,200,000	U	980,000	4,600,000	U
2-METHYLHEXANE	TO15	43,000	180,000	U	680,000	2,800,000	U	980,000	4,100,000	U
3-METHYLHEXANE	TO15	43,000	180,000	U	680,000	2,800,000	U	980,000	4,100,000	U
2-METHYLPENTANE	TO15	180,000	630,000		4,200,000	15,000,000		6,200,000	22,000,000	
3-METHYLPENTANE	TO15	550,000	2,000,000		1,600,000	5,900,000		2,100,000	7,600,000	
NONANE	TO15	43,000	230,000	U	680,000	3,600,000	U	980,000	5,200,000	U
OCTANE	TO15	43,000	200,000	U	680,000	3,200,000	U	980,000	4,600,000	U
PENTANE	TO15	43,000	130,000	U	5,600,000	17,000,000		8,300,000	25,000,000	
1-PENTENE	TO15	43,000	120,000	U	680,000	2,000,000	U	980,000	2,800,000	U
CIS-2-PENTENE	TO15	43,000	120,000	U	680,000	2,000,000	U	980,000	2,800,000	U
TRANS-2-PENTENE	TO15	43,000	120,000	U	680,000	2,000,000	U	980,000	2,800,000	U
PROPYLBENZENE	TO15	43,000	210,000	U	680,000	3,400,000	U	980,000	4,900,000	U
2,2,4-TRIMETHYLPENTANE	TO15	240,000	1,100,000		680,000	3,200,000	U	980,000	4,600,000	U
2,3,4-TRIMETHYLPENTANE	TO15	43,000	200,000	U	680,000	3,200,000	U	980,000	4,600,000	U
1-HEXENE	TO15	43,000	150,000	U	680,000	2,400,000	U	980,000	3,400,000	U
3-ETHYLTOLUENE	TO15	43,000	210,000	U	680,000	3,400,000	U	980,000	4,900,000	U
4-ETHYLTOLUENE	TO15	43,000	210,000	U	680,000	3,400,000	U	980,000	4,900,000	U
2-ETHYLTOLUENE	TO15	43,000	210,000	U	680,000	3,400,000	U	980,000	4,900,000	U
DECANE	TO15	43,000	250,000	U	680,000	4,000,000	U	980,000	5,800,000	U
1,2,3-TRIMETHYLBENZENE	TO15	43,000	210,000	U	680,000	3,400,000	U	980,000	4,900,000	U
1,3-DIETHYLBENZENE	TO15	43,000	240,000	U	680,000	3,800,000	U	980,000	5,400,000	U
1,4-DIETHYLBENZENE	TO15	43,000	240,000	U	680,000	3,800,000	U	980,000	5,400,000	U
UNDECANE	TO15	43,000	280,000	U	680,000	4,400,000	U	980,000	6,300,000	U
CIS-2-HEXENE	TO15	110,000	380,000	U	1,700,000	6,000,000	U	2,400,000	8,500,000	U
TRANS-2-HEXENE	TO15	110,000	380,000	U	1,700,000	6,000,000	U	2,400,000	8,500,000	U
ALPHA-PINENE	TO15	110,000	610,000	U	1,700,000	9,700,000	U	2,400,000	14,000,000	U
BETA-PINENE	TO15	110,000	610,000	U	1,700,000	9,700,000	U	2,400,000	14,000,000	U
CYCLOPENTENE	TO15	43,000	120,000	U	680,000	1,900,000	U	980,000	2,800,000	U
1-UNDECENE	TO15	110,000	690,000	U	1,700,000	11,000,000	U J	2,400,000	16,000,000	U
1-DECENE	TO15	110,000	630,000	U	1,700,000	10,000,000	U	2,400,000	14,000,000	U
1-NONENE	TO15	43,000	220,000	U	680,000	3,600,000	U	980,000	5,100,000	U
1-OCTENE	TO15	43,000	200,000	U	680,000	3,200,000	U	980,000	4,600,000	U
1-HEPTENE	TO15	43,000	180,000	U	680,000	2,800,000	U	980,000	4,000,000	U
1,3-BUTADIENE	TO15	11,000	24,000	U	170,000	380,000	U	240,000	550,000	U
Lab Sample ID		**0408033D-17A**								
Field Sample ID		**072904VMP-3**								
BENZENE (Rerun)	TO-15	510	1,600		--	--	--	--	--	--
Lab Sample ID		**0408033C-17A**			**0408033C-12A**			**0408033C-13A**		
Field Sample ID		**072904VMP-3**			**072904VMP-6-S**			**072904VMP-6-M**		
ISOBUTANE	TO-14A	640,000	1,500,000		4,000,000	9,600,000		5,000,000	12,000,000	
BUTANE	TO-14A	53,000	130,000		12,000,000	29,000,000		15,000,000	37,000,000	
TRANS-2-BUTENE	TO-14A	200	460	U	180,000	410,000		220,000	520,000	
1-BUTENE	TO-14A	200	460	U	7,800	18,000		10,000	24,000	
CIS-2-BUTENE	TO-14A	200	460	U	72,000	170,000		90,000	210,000	
ACETYLENE	TO-14A	500	540	U	8,600	9,200	U	10,000	11,000	U
ETHENE	TO-14A	500	580	U	8,600	10,000	U	10,000	12,000	U
PROPANE	TO-14A	5,700	10,000		88,000	160,000		100,000	190,000	
ETHANE	TO-14A	70,000	88,000		110,000	140,000		140,000	180,000	
PROPYLENE	TO-14A	500	870	U	8,600	15,000	U	10,000	18,000	U
Lab Sample ID		**0408033B-17A**			**0408033B-12A**			**0408033B-13A**		
Field Sample ID		**072904VMP-3**			**072904VMP-6-S**			**072904VMP-6-M**		
Compound	**Method**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**
OXYGEN	D-1946	3.7	--	--	6.2	--	--	3.5	--	--
METHANE	D-1946	11	110,000,000	73,000,000	51	510,000,000	340,000,000	61	610,000,000	410,000,000
CARBON DIOXIDE	D-1946	22	--	--	6.3	--	--	5.5	--	--

TABLE 2-8b

Summary of Soil Vapor Analytical Results (Sample Collected July 29, 2004)
Hartford Community Center

Vapor Monitoring Point		VMP-6D			VMP-7			VMP-8		
Lab Sample ID		0408033A-14A			0408033A-15A			0408033A-16A		
Field Sample ID		072904VMP-6-D			072904VMP-7			072904VMP-8		
Sample Date		29-Jul-04			29-Jul-04			29-Jul-04		
Sample Type		Soil Vapor			Soil Vapor			Soil Vapor		
Sample Container		Grab 6-L Summa			Grab 6-L Summa			Grab 6-L Summa		
Sample Description		Hartford Community Center. Deep soil vapor monitoring point VMP-6-D northwest of building.			Hartford Community Center. Soil vapor monitoring point VMP-7 at west side of property.			Hartford Community Center. Soil vapor monitoring point VMP-8 at southwest corner of property.		
Compound	**Method**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**
BENZENE	TO15	110,000	350,000		210,000	680,000	U	12	38	U
ETHYL BENZENE	TO15	57,000	250,000	U	210,000	930,000	U	12	51	U
STYRENE (MONOMER)	TO15	57,000	250,000	U	210,000	910,000	U	12	50	U
TOLUENE	TO15	57,000	220,000	U	210,000	810,000	U	12	45	U
1,2,4-TRIMETHYLBENZENE	TO15	57,000	280,000	U	210,000	1,000,000	U	12	58	U
1,3,5-TRIMETHYLBENZENE	TO15	57,000	280,000	U	210,000	1,000,000	U	12	58	U
M,P-XYLENE	TO15	57,000	250,000	U	210,000	930,000	U	12	51	U
O-XYLENE	TO15	57,000	250,000	U	210,000	930,000	U	12	51	U
CYCLOHEXANE	TO15	230,000	800,000	U	840,000	2,900,000	U	150	520	
CYCLOPENTANE	TO15	230,000	660,000	U	840,000	2,400,000	U	56	160	
2,2-DIMETHYLBUTANE	TO15	230,000	820,000	U	840,000	3,000,000	U	47	170	U
2,3-DIMETHYLBUTANE	TO15	260,000	940,000		2,200,000	7,700,000		170	620	
2,3-DIMETHYLPENTANE	TO15	230,000	950,000	U	1,200,000	5,100,000		520	2,200	
2,4-DIMETHYLPENTANE	TO15	230,000	950,000	U	840,000	3,500,000	U	210	870	
HEPTANE	TO15	230,000	950,000	U	840,000	3,500,000	U	47	190	U
HEXANE	TO15	590,000	2,100,000		2,200,000	8,000,000		47	170	U
ISOPRENE	TO15	230,000	640,000	U	840,000	2,400,000	U	47	130	U
CUMENE	TO15	230,000	1,100,000	U	840,000	4,200,000	U	47	230	U
ISOPENTANE	TO15	4,700,000	14,000,000		25,000,000	74,000,000		1,200	3,500	
METHYLCYLOHEXANE	TO15	230,000	930,000	U	840,000	3,400,000	U	260	1,100	
METHYLCYCLOPENTANE	TO15	240,000	840,000		1,200,000	4,200,000		270	940	
2-METHYLHEPTANE	TO15	230,000	1,100,000	U	840,000	4,000,000	U	47	220	U
3-METHYLHEPTANE	TO15	230,000	1,100,000	U	840,000	4,000,000	U	47	220	U
2-METHYLHEXANE	TO15	230,000	950,000	U	840,000	3,500,000	U	58	240	
3-METHYLHEXANE	TO15	230,000	950,000	U	840,000	3,500,000	U	100	420	
2-METHYLPENTANE	TO15	980,000	3,500,000		8,800,000	32,000,000		290	1,000	
3-METHYLPENTANE	TO15	580,000	2,100,000		3,000,000	11,000,000		470	1,700	
NONANE	TO15	230,000	1,200,000	U	840,000	4,500,000	U	47	250	U
OCTANE	TO15	230,000	1,100,000	U	840,000	4,000,000	U	47	220	U
PENTANE	TO15	1,800,000	5,400,000		7,200,000	22,000,000		150	440	
1-PENTENE	TO15	230,000	660,000	U	840,000	2,400,000	U	47	140	U
CIS-2-PENTENE	TO15	230,000	660,000	U	840,000	2,400,000	U	47	140	U
TRANS-2-PENTENE	TO15	230,000	660,000	U	840,000	2,400,000	U	47	140	U
PROPYLBENZENE	TO15	230,000	1,100,000	U	840,000	4,200,000	U	47	230	U
2,2,4-TRIMETHYLPENTANE	TO15	230,000	1,100,000	U	840,000	4,000,000	U	540	2,600	
2,3,4-TRIMETHYLPENTANE	TO15	230,000	1,100,000	U	840,000	4,000,000	U	240	1,200	
1-HEXENE	TO15	230,000	800,000	U	840,000	2,900,000	U	47	160	U
3-ETHYLTOLUENE	TO15	230,000	1,100,000	U	840,000	4,200,000	U	47	230	U
4-ETHYLTOLUENE	TO15	230,000	1,100,000	U	840,000	4,200,000	U	47	230	U
2-ETHYLTOLUENE	TO15	230,000	1,100,000	U	840,000	4,200,000	U	47	230	U
DECANE	TO15	230,000	1,300,000	U	840,000	5,000,000	U	47	280	U
1,2,3-TRIMETHYLBENZENE	TO15	230,000	1,100,000	U	840,000	4,200,000	U	47	230	U
1,3-DIETHYLBENZENE	TO15	230,000	1,300,000	U	840,000	4,700,000	U	47	260	U
1,4-DIETHYLBENZENE	TO15	230,000	1,300,000	U	840,000	4,700,000	U	47	260	U
UNDECANE	TO15	230,000	1,500,000	U	840,000	5,500,000	U	47	300	U
CIS-2-HEXENE	TO15	570,000	2,000,000	U	2,100,000	7,400,000	U	120	410	U
TRANS-2-HEXENE	TO15	570,000	2,000,000	U	2,100,000	7,400,000	U	120	410	U
ALPHA-PINENE	TO15	570,000	3,200,000	U	2,100,000	12,000,000	U	120	660	U
BETA-PINENE	TO15	570,000	3,200,000	U	2,100,000	12,000,000	U	120	660	U
CYCLOPENTENE	TO15	230,000	640,000	U	840,000	2,400,000	U	47	130	U
1-UNDECENE	TO15	570,000	3,600,000	U J	2,100,000	13,000,000	U J	120	740	U
1-DECENE	TO15	570,000	3,300,000	U	2,100,000	12,000,000	U	120	680	U
1-NONENE	TO15	230,000	1,200,000	U	840,000	4,400,000	U	47	240	U
1-OCTENE	TO15	230,000	1,100,000	U	840,000	3,900,000	U	47	220	U
1-HEPTENE	TO15	230,000	930,000	U	84,000	3,400,000	U	47	190	U
1,3-BUTADIENE	TO15	57,000	130,000	U	210,000	470,000	U	12	26	U
Lab Sample ID					0408033D-15A			0408033D-16A		
Field Sample ID					072904VMP-7			072904VMP-8		
BENZENE (Rerun)	TO-15	--	--	--	37,000	120,000		4.5	15	
Lab Sample ID		0408033C-14A			0408033C-15A			0408033C-16A		
Field Sample ID		072904VMP-6-D			072904VMP-7			072904VMP-8		
ISOBUTANE	TO-14A	1,200,000	2,900,000		5,800,000	14,000,000		230	560	
BUTANE	TO-14A	3,600,000	8,600,000		36,000,000	88,000,000		230	550	
TRANS-2-BUTENE	TO-14A	44,000	100,000		85,000	200,000		3.5	8.2	U
1-BUTENE	TO-14A	1,900	4,500		8,400	20,000	U	3.5	8.2	U
CIS-2-BUTENE	TO-14A	23,000	54,000		18,000	41,000		3.5	8.2	U
ACETYLENE	TO-14A	2,300	2,500	U	21,000	23,000	U	8.8	9.5	U
ETHENE	TO-14A	2,300	2,600	U	21,000	24,000	U	8.8	10	U
PROPANE	TO-14A	31,000	57,000		540,000	980,000		8.8	16	U
ETHANE	TO-14A	39,000	48,000		170,000	210,000		20	25	
PROPYLENE	TO-14A	2,300	4,000	U	21,000	37,000	U	8.8	15	U
Lab Sample ID		0408033B-14A			0408033B-15A			0408033B-16A		
Field Sample ID		072904VMP-6-D			072904VMP-7			072904VMP-8		
Compound	**Method**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**
OXYGEN	D-1946	16	--	--	0.16 U	--	--	21	--	--
METHANE	D-1946	18	180,000,000	120,000,000	58	580,000,000	390,000,000	0.0086	86,000	57,000
CARBON DIOXIDE	D-1946	3.9	--	--	24	--	--	0.22	--	--

TABLE 2-8b

Summary of Soil Vapor Analytical Results (Sample Collected July 29, 2004)
Hartford Community Center

Vapor Monitoring Point		VMP-10			VMP-11			VMP-22S		
Lab Sample ID		0408033A-02A			0408033-01A			0408033A-05A		
Field Sample ID		072904VMP10			072904VMP-11			072904VMP-22-S		
Sample Date		29-Jul-04			29-Jul-04			29-Jul-04		
Sample Type		Soil Vapor			Soil Vapor			Soil Vapor		
Sample Container		Grab 6-L Summa			Grab 6-L Summa			Grab 6-L Summa		
Sample Description		Hartford Community Center. Soil vapor monitoring point VMP-10 adjacent to storm sewer east of building.			Hartford Community Center. Soil vapor monitoring point VMP-11 at southeast corner of building near water valve.			Hartford Community Center. Soil vapor monitoring point VMP-22-S.		
Compound	**Method**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**
BENZENE	TO15	6.0	20		1.6	5.2	U	38,000	120,000	U
ETHYL BENZENE	TO15	0.82	3.6	U	1.6	7.1	U	38,000	170,000	U
STYRENE (MONOMER)	TO15	0.82	3.5	U	1.6	7.0	U	38,000	160,000	U
TOLUENE	TO15	26	98		3.9	15		38,000	150,000	U
1,2,4-TRIMETHYLBENZENE	TO15	0.82	4.1	U	1.6	8.0	U	38,000	190,000	U
1,3,5-TRIMETHYLBENZENE	TO15	0.82	4.1	U	1.6	8.0	U	38,000	190,000	U
M,P-XYLENE	TO15	1.9	8.4		1.6	7.1	U	38,000	170,000	U
O-XYLENE	TO15	1.9	8.2		1.6	7.1	U	38,000	170,000	U
CYCLOHEXANE	TO15	3.3	11	U	6.4	22	U	200,000	690,000	
CYCLOPENTANE	TO15	3.3	9.6	U	6.4	19	U	180,000	530,000	
2,2-DIMETHYLBUTANE	TO15	9.5	34		51	180		150,000	550,000	U
2,3-DIMETHYLBUTANE	TO15	17	60		16	58		590,000	2,100,000	
2,3-DIMETHYLPENTANE	TO15	12	48		30	120		630,000	2,600,000	
2,4-DIMETHYLPENTANE	TO15	7.8	33		21	88		380,000	1,600,000	
HEPTANE	TO15	3.3	14	U	6.4	27	U	150,000	640,000	U
HEXANE	TO15	3.3	12	U	6.4	23	U	150,000	550,000	U
ISOPRENE	TO15	3.3	9.3	U	6.4	32	U	150,000	430,000	U
CUMENE	TO15	3.3	16	U	6.4	32	U	150,000	760,000	U
ISOPENTANE	TO15	33	100		6.4	19	U	8,000,000	24,000,000	
METHYLCYLOHEXANE	TO15	3.3	13	U	6.4	26	U	160,000	660,000	
METHYLCYCLOPENTANE	TO15	3.3	11	U	6.4	22	U	480,000	1,700,000	
2-METHYLHEPTANE	TO15	3.3	16	U	6.4	30	U	150,000	720,000	U
3-METHYLHEPTANE	TO15	3.3	16	U	6.4	30	U	150,000	720,000	U
2-METHYLHEXANE	TO15	3.3	14	U	6.4	27	U	150,000	640,000	U
3-METHYLHEXANE	TO15	3.3	14	U	6.4	27	U	150,000	640,000	U
2-METHYLPENTANE	TO15	6.7	24		6.4	23	U	610,000	2,200,000	
3-METHYLPENTANE	TO15	7.2	26		6.4	23	U	1,400,000	5,000,000	
NONANE	TO15	3.3	17	U	6.4	34	U	150,000	810,000	U
OCTANE	TO15	3.3	16	U	6.4	30	U	150,000	720,000	U
PENTANE	TO15	25	76		6.4	19	U	450,000	1,400,000	
1-PENTENE	TO15	3.3	9.6	U	6.4	19	U	150,000	440,000	U
CIS-2-PENTENE	TO15	3.3	9.6	U	6.4	19	U	150,000	440,000	U
TRANS-2-PENTENE	TO15	3.3	9.6	U	6.4	19	U	150,000	440,000	U
PROPYLBENZENE	TO15	3.3	16	U	6.4	32	U	150,000	760,000	U
2,2,4-TRIMETHYLPENTANE	TO15	30	140		260	1,200		610,000	2,900,000	
2,3,4-TRIMETHYLPENTANE	TO15	3.3	16	U	29	230		150,000	720,000	U
1-HEXENE	TO15	3.3	11	U	6.4	22	U	150,000	530,000	U
3-ETHYLTOLUENE	TO15	3.3	16	U	6.4	32	U	150,000	760,000	U
4-ETHYLTOLUENE	TO15	3.3	16	U	6.4	32	U	150,000	760,000	U
2-ETHYLTOLUENE	TO15	3.3	16	U	6.4	32	U	150,000	760,000	U
DECANE	TO15	3.3	19	U	6.4	38	U	150,000	900,000	U
1,2,3-TRIMETHYLBENZENE	TO15	3.3	16	U	6.4	32	U	150,000	760,000	U
1,3-DIETHYLBENZENE	TO15	3.3	18	U J	6.4	36	U J	150,000	850,000	U
1,4-DIETHYLBENZENE	TO15	3.3	18	U J	6.4	36	U J	150,000	850,000	U
UNDECANE	TO15	3.3	21	U	6.4	42	U	150,000	990,000	U
CIS-2-HEXENE	TO15	8.2	29	U	16	56	U	380,000	1,300,000	U
TRANS-2-HEXENE	TO15	8.2	29	U	16	56	U	380,000	1,300,000	U
ALPHA-PINENE	TO15	8.2	46	U	16	91	U	380,000	2,200,000	U
BETA-PINENE	TO15	8.2	46	U	16	91	U	380,000	2,200,000	U
CYCLOPENTENE	TO15	3.3	9.3	U	6.4	18	U	150,000	430,000	U
1-UNDECENE	TO15	8.2	52	U	16	100	U	380,000	2,400,000	U J
1-DECENE	TO15	8.2	48	U	16	94	U	380,000	2,200,000	U
1-NONENE	TO15	3.3	17	U	6.4	34	U	150,000	800,000	U
1-OCTENE	TO15	3.3	15	U	6.4	30	U	150,000	710,000	U
1-HEPTENE	TO15	3.3	13	U	6.4	26	U	150,000	620,000	U
1,3-BUTADIENE	TO15	0.82	1.8	U	1.6	3.6	U	38,000	86,000	U
Lab Sample ID					**0408033D-01A**			**0408033D-05A**		
Field Sample ID					**072904VMP-11**			**072904VMP-22-S**		
BENZENE (Rerun)	TO-15	--	--	--	0.8	2.6	U	890	2,900	
Lab Sample ID		**0408033C-02A**			**0408033C-01A**			**0408033C-05A**		
Field Sample ID		**072904VMP10**			**072904VMP-11**			**072904VMP-22-S**		
ISOBUTANE	TO-14A	10	25		6.7	16		2,900,000	7,100,000	
BUTANE	TO-14A	20	48		3.8	9.2		2,000,000	4,900,000	
TRANS-2-BUTENE	TO-14A	3.3	7.6	U	3.2	7.5	U	850	2,000	U
1-BUTENE	TO-14A	3.3	7.6	U	3.2	7.5	U	850	2,000	U
CIS-2-BUTENE	TO-14A	3.3	7.6	U	3.2	7.5	U	850	2,000	U
ACETYLENE	TO-14A	8.2	8.9	U	8.0	8.7	U	2,100	2,300	U
ETHENE	TO-14A	8.2	9.6	U	8.0	9.4	U	2,100	2,500	U
PROPANE	TO-14A	9.7	18		8.0	15	U	65,000	120,000	
ETHANE	TO-14A	54	68		8.2	10		96,000	120,000	
PROPYLENE	TO-14A	8.2	14	U	8.0	14	U	2,100	3,700	U
Lab Sample ID		**0408033B-02A**			**0408033B-01A**			**0408033B-05A**		
Field Sample ID		**072904VMP-10**			**072904VMP-11**			**072904VMP-22-S**		
Compound	**Method**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**
OXYGEN	D-1946	21	--	--	12	--	--	1.4	--	--
METHANE	D-1946	0.66	6,600,000	4,400,000	0.0013	13,000	8,700	44	440,000,000	290,000,000
CARBON DIOXIDE	D-1946	0.52	--	--	9.4	--	--	14	--	--

TABLE 2-8b

Summary of Soil Vapor Analytical Results (Sample Collected July 29, 2004)
Hartford Community Center

Vapor Monitoring Point		VMP-22M			VMP-22D			VMP-23S		
Lab Sample ID		0408033A-06A			0408033A-07A			0408033A-09A		
Field Sample ID		072904VMP-22-M			072904VMP-22-D			072904VMP-23-S		
Sample Date		29-Jul-04			29-Jul-04			29-Jul-04		
Sample Type		Soil Vapor			Soil Vapor			Soil Vapor		
Sample Container		Grab 6-L Summa			Grab 6-L Summa			Grab 6-L Summa		
Sample Description		Hartford Community Center. Soil vapor monitoring point VMP-22-M.			Hartford Community Center. Soil vapor monitoring point VMP-22-D.			Hartford Community Center. Soil vapor monitoring point VMP-23-S.		
Compound	**Method**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**
BENZENE	TO15	66,000	210,000	U	180,000	590,000		620	2,000	
ETHYL BENZENE	TO15	66,000	290,000	U	84,000	370,000	U	26	120	
STYRENE (MONOMER)	TO15	66,000	280,000	U	84,000	360,000	U	18	79	U
TOLUENE	TO15	66,000	250,000	U	84,000	320,000	U	26	100	
1,2,4-TRIMETHYLBENZENE	TO15	66,000	330,000	U	84,000	420,000	U	51	260	
1,3,5-TRIMETHYLBENZENE	TO15	66,000	330,000	U	84,000	420,000	U	23	110	
M,P-XYLENE	TO15	66,000	290,000	U	84,000	370,000	U	190	820	
O-XYLENE	TO15	66,000	290,000	U	84,000	370,000	U	180	810	
CYCLOHEXANE	TO15	260,000	920,000	U	340,000	1,200,000	U	530	1,900	
CYCLOPENTANE	TO15	260,000	760,000	U	350,000	1,000,000		270	780	
2,2-DIMETHYLBUTANE	TO15	260,000	940,000	U	340,000	1,200,000	U	73	260	U
2,3-DIMETHYLBUTANE	TO15	460,000	1,700,000		700,000	2,500,000		380	1,300	
2,3-DIMETHYLPENTANE	TO15	500,000	2,100,000		340,000	1,400,000	U	600	2,500	
2,4-DIMETHYLPENTANE	TO15	300,000	1,200,000		340,000	1,400,000	U	290	1,200	
HEPTANE	TO15	260,000	1,100,000	U	340,000	1,400,000	U	240	1,000	
HEXANE	TO15	260,000	940,000	U	500,000	1,800,000		560	2,000	
ISOPRENE	TO15	260,000	740,000	U	340,000	950,000	U	73	210	U
CUMENE	TO15	260,000	1,300,000	U	340,000	1,700,000	U	110	550	
ISOPENTANE	TO15	6,800,000	20,000,000		14,000,000	42,000,000		2,800	8,400	
METHYLCYLOHEXANE	TO15	260,000	1,100,000	U	340,000	1,400,000	U	740	3,000	
METHYLCYCLOPENTANE	TO15	320,000	1,100,000		680,000	2,400,000		1,100	3,800	
2-METHYLHEPTANE	TO15	260,000	1,200,000	U	340,000	1,600,000	U	200	950	
3-METHYLHEPTANE	TO15	260,000	1,200,000	U	340,000	1,600,000	U	290	1,400	
2-METHYLHEXANE	TO15	260,000	1,100,000	U	340,000	1,400,000	U	470	2,000	
3-METHYLHEXANE	TO15	260,000	1,100,000	U	340,000	1,400,000	U	570	2,400	
2-METHYLPENTANE	TO15	360,000	1,300,000		2,100,000	7,400,000		1,200	4,400	
3-METHYLPENTANE	TO15	1,100,000	4,000,000		1,600,000	5,900,000		1,200	4,100	
NONANE	TO15	260,000	1,400,000	U	340,000	1,800,000	U	73	390	U
OCTANE	TO15	260,000	1,200,000	U	340,000	1,600,000	U	76	360	
PENTANE	TO15	260,000	790,000		4,200,000	12,000,000		1,500	4,500	
1-PENTENE	TO15	260,000	760,000	U	340,000	980,000	U	73	210	U
CIS-2-PENTENE	TO15	260,000	760,000	U	340,000	980,000	U	73	210	U
TRANS-2-PENTENE	TO15	260,000	760,000	U	340,000	980,000	U	73	210	U
PROPYLBENZENE	TO15	260,000	1,300,000	U	340,000	1,700,000	U	380	1,900	
2,2,4-TRIMETHYLPENTANE	TO15	500,000	2,400,000		340,000	1,600,000	U	390	1,800	
2,3,4-TRIMETHYLPENTANE	TO15	260,000	1,200,000	U	340,000	1,600,000	U	73	340	U
1-HEXENE	TO15	260,000	920,000	U	340,000	1,200,000	U	73	250	U
3-ETHYLTOLUENE	TO15	260,000	1,300,000	U	340,000	1,700,000	U	73	360	U
4-ETHYLTOLUENE	TO15	260,000	1,300,000	U	340,000	1,700,000	U	87	440	
2-ETHYLTOLUENE	TO15	260,000	1,300,000	U	340,000	1,700,000	U	120	620	
DECANE	TO15	260,000	1,500,000	U	340,000	2,000,000	U	73	430	U
1,2,3-TRIMETHYLBENZENE	TO15	260,000	1,300,000	U	340,000	1,700,000	U	73	360	U
1,3-DIETHYLBENZENE	TO15	260,000	1,400,000	U J	340,000	1,900,000	U	92	510	
1,4-DIETHYLBENZENE	TO15	260,000	1,500,000	U J	340,000	1,900,000	U	73	410	U
UNDECANE	TO15	260,000	1,700,000	U	340,000	2,200,000	U	73	470	U
CIS-2-HEXENE	TO15	660,000	2,300,000	U	840,000	2,900,000	U	180	640	U
TRANS-2-HEXENE	TO15	660,000	2,300,000	U	840,000	2,900,000	U	180	640	U
ALPHA-PINENE	TO15	660,000	3,700,000	U	840,000	4,800,000	U	180	1,000	U
BETA-PINENE	TO15	660,000	3,700,000	U	840,000	4,800,000	U	180	1,000	U
CYCLOPENTENE	TO15	260,000	740,000	U	340,000	950,000	U	73	210	U
1-UNDECENE	TO15	660,000	4,200,000	U	840,000	5,400,000	U J	180	1,200	U
1-DECENE	TO15	660,000	3,800,000	U	840,000	4,900,000	U	180	1,100	U
1-NONENE	TO15	260,000	1,400,000	U	340,000	1,800,000	U	73	380	U
1-OCTENE	TO15	260,000	1,200,000	U	340,000	1,600,000	U	73	340	U
1-HEPTENE	TO15	260,000	1,100,000	U	340,000	1,400,000	U	73	300	U
1,3-BUTADIENE	TO15	66,000	150,000	U	84,000	190,000	U	18	41	U
Lab Sample ID		0408033D-06A								
Field Sample ID		072904VMP-22-M								
BENZENE (Rerun)	TO-15	1,100	3,600		--	--	--	--	--	--
Lab Sample ID		0408033C-06A			0408033C-07A			0408033C-09A		
Field Sample ID		072904VMP-22-M			072904VMP-22-D			072904VMP-23-S		
ISOBUTANE	TO-14A	2,800,000	6,600,000		6,400,000	16,000,000		310	750	
BUTANE	TO-14A	1,200,000	2,800,000		14,000,000	33,000,000		1,300	3,200	
TRANS-2-BUTENE	TO-14A	870	2,000	U	47,000	110,000		6.5	15	
1-BUTENE	TO-14A	870	2,000	U	2,700	6,200	U	3.3	7.6	U
CIS-2-BUTENE	TO-14A	870	2,000	U	11,000	26,000		3.3	7.6	U
ACETYLENE	TO-14A	2,200	2,400	U	6,700	7,200	U	8.2	8.9	U
ETHENE	TO-14A	2,200	2,500	U	6,700	7,800	U	8.2	9.6	U
PROPANE	TO-14A	58,000	110,000		130,000	240,000		22	40	
ETHANE	TO-14A	88,000	110,000		140,000	180,000		33	42	
PROPYLENE	TO-14A	2,200	3,800	U	6,700	12,000	U	8.2	14	U
Lab Sample ID		0408033B-06A			0408033B-07A			0408033B-09A		
Field Sample ID		072904VMP-22-M			072904VMP-22-D			072904VMP-23-S		
Compound	**Method**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**
OXYGEN	D-1946	1.9	--	--	0.17 U	--	--	19	--	--
METHANE	D-1946	42	420,000,000	280,000,000	74	740,000,000	490,000,000	0.00070	7,000	4,700
CARBON DIOXIDE	D-1946	11	--	--	18	--	--	1.8	--	--

TABLE 2-8b

Summary of Soil Vapor Analytical Results (Sample Collected July 29, 2004)
Hartford Community Center

Vapor Monitoring Point		VMP-23M			VMP-24S			VMP-24M		
Lab Sample ID		0408033A-08A			0408033A-11A			0408033A-10A		
Field Sample ID		072904VMP-23-M			072904VMP-24-S			072904VMP-24-M		
Sample Date		29-Jul-04			29-Jul-04			29-Jul-04		
Sample Type		Soil Vapor			Soil Vapor			Soil Vapor		
Sample Container		Grab 6-L Summa			Grab 6-L Summa			Grab 6-L Summa		
Sample Description		Hartford Community Center. Soil vapor monitoring point VMP-23-M.			Hartford Community Center. Soil vapor monitoring point VMP-24-S.			Hartford Community Center. Soil vapor monitoring point VMP-24-M.		
Compound	**Method**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**
BENZENE	TO15	320,000	1,000,000		17,000	56,000	U	160,000	500,000	U
ETHYL BENZENE	TO15	110,000	480,000	U	17,000	75,000	U	160,000	680,000	U
STYRENE (MONOMER)	TO15	110,000	470,000	U	17,000	74,000	U	160,000	670,000	U
TOLUENE	TO15	320,000	1,200,000		17,000	65,000	U	160,000	590,000	U
1,2,4-TRIMETHYLBENZENE	TO15	110,000	550,000	U	17,000	85,000	U	160,000	770,000	U
1,3,5-TRIMETHYLBENZENE	TO15	110,000	550,000	U	17,000	85,000	U	160,000	770,000	U
M,P-XYLENE	TO15	110,000	480,000	U	17,000	75,000	U	160,000	680,000	U
O-XYLENE	TO15	110,000	480,000	U	17,000	75,000	U	160,000	680,000	U
CYCLOHEXANE	TO15	110,000	1,500,000	U	68,000	240,000	U	620,000	2,200,000	U
CYCLOPENTANE	TO15	430,000	1,300,000	J	68,000	200,000	U	620,000	1,800,000	U
2,2-DIMETHYLBUTANE	TO15	440,000	1,600,000	U	68,000	240,000	U	620,000	2,200,000	U
2,3-DIMETHYLBUTANE	TO15	910,000	3,300,000		120,000	430,000		980,000	3,500,000	
2,3-DIMETHYLPENTANE	TO15	650,000	2,700,000		82,000	340,000		620,000	2,600,000	U
2,4-DIMETHYLPENTANE	TO15	480,000	2,000,000		68,000	280,000	U	620,000	2,600,000	U
HEPTANE	TO15	440,000	1,800,000	U	68,000	280,000	U	620,000	2,600,000	U
HEXANE	TO15	440,000	1,600,000	U	68,000	240,000	U	620,000	2,200,000	U
ISOPRENE	TO15	440,000	1,200,000	U	68,000	190,000	U	620,000	1,800,000	U
CUMENE	TO15	440,000	2,200,000	U	68,000	340,000	U	620,000	3,100,000	U
ISOPENTANE	TO15	14,000,000	43,000,000		2,000,000	5,900,000		19,000,000	56,000,000	
METHYLCYLOHEXANE	TO15	440,000	1,800,000	U	68,000	280,000	U	620,000	2,500,000	U
METHYLCYCLOPENTANE	TO15	800,000	2,800,000		68,000	240,000	U	840,000	2,900,000	
2-METHYLHEPTANE	TO15	440,000	2,100,000	U	68,000	320,000	U	620,000	2,900,000	U
3-METHYLHEPTANE	TO15	440,000	2,100,000	U	68,000	320,000	U	620,000	2,900,000	U
2-METHYLHEXANE	TO15	440,000	1,800,000	U	68,000	280,000	U	620,000	2,600,000	U
3-METHYLHEXANE	TO15	440,000	1,800,000	U	68,000	280,000	U	620,000	2,600,000	U
2-METHYLPENTANE	TO15	3,200,000	11,000,000		280,000	990,000		1,600,000	5,900,000	
3-METHYLPENTANE	TO15	1,900,000	6,900,000		200,000	710,000		2,000,000	7,200,000	
NONANE	TO15	440,000	2,300,000	U	68,000	360,000	U	620,000	3,300,000	U
OCTANE	TO15	440,000	2,100,000	U	68,000	320,000	U	620,000	2,900,000	U
PENTANE	TO15	4,800,000	14,000,000		230,000	680,000		2,500,000	7,400,000	
1-PENTENE	TO15	440,000	1,300,000	U	68,000	200,000	U	620,000	1,800,000	U
CIS-2-PENTENE	TO15	440,000	1,300,000	U	68,000	200,000	U	620,000	1,800,000	U
TRANS-2-PENTENE	TO15	440,000	1,300,000	U	68,000	200,000	U	620,000	1,800,000	U
PROPYLBENZENE	TO15	440,000	2,200,000	U	68,000	340,000	U	620,000	3,100,000	U
2,2,4-TRIMETHYLPENTANE	TO15	510,000	2,400,000		86,000	410,000		620,000	2,900,000	U
2,3,4-TRIMETHYLPENTANE	TO15	440,000	2,100,000	U	68,000	320,000	U	620,000	2,900,000	U
1-HEXENE	TO15	440,000	1,500,000	U	68,000	240,000	U	620,000	2,200,000	U
3-ETHYLTOLUENE	TO15	440,000	2,200,000	U	68,000	340,000	U	620,000	3,100,000	U
4-ETHYLTOLUENE	TO15	440,000	2,200,000	U	68,000	340,000	U	620,000	3,100,000	U
2-ETHYLTOLUENE	TO15	440,000	2,200,000	U	68,000	340,000	U	620,000	3,100,000	U
DECANE	TO15	440,000	2,600,000	U	68,000	400,000	U	620,000	3,700,000	U
1,2,3-TRIMETHYLBENZENE	TO15	440,000	2,200,000	U	68,000	340,000	U	620,000	3,100,000	U
1,3-DIETHYLBENZENE	TO15	440,000	2,400,000	U	68,000	380,000	U	620,000	3,400,000	U
1,4-DIETHYLBENZENE	TO15	440,000	2,400,000	U	68,000	380,000	U	620,000	3,400,000	U
UNDECANE	TO15	440,000	2,800,000	U	68,000	440,000	U	620,000	4,000,000	U
CIS-2-HEXENE	TO15	1,100,000	3,800,000	U	170,000	600,000	U	1,600,000	5,400,000	U
TRANS-2-HEXENE	TO15	1,100,000	3,800,000	U	170,000	600,000	U	1,600,000	5,400,000	U
ALPHA-PINENE	TO15	1,100,000	6,200,000	U	170,000	970,000	U	1,600,000	8,800,000	U
BETA-PINENE	TO15	1,100,000	6,200,000	U	170,000	970,000	U	1,600,000	8,800,000	U
CYCLOPENTENE	TO15	440,000	1,200,000	U	68,000	190,000	U	620,000	1,800,000	U
1-UNDECENE	TO15	1,100,000	7,000,000	U	170,000	1,100,000	U J	1,600,000	9,900,000	U
1-DECENE	TO15	1,100,000	6,400,000	U	170,000	1,000,000	U	1,600,000	9,000,000	U
1-NONENE	TO15	440,000	2,300,000	U	68,000	360,000	U	620,000	3,200,000	U
1-OCTENE	TO15	440,000	2,000,000	U	68,000	320,000	U	620,000	2,900,000	U
1-HEPTENE	TO15	440,000	1,800,000	U	68,000	280,000	U	620,000	2,500,000	U
1,3-BUTADIENE	TO15	110,000	250,000	U	17,000	38,000	U	160,000	350,000	U
Lab Sample ID					0408033D-11A			0408033D-10A		
Field Sample ID					072904VMP-24-S			072904VMP-24-M		
BENZENE (Rerun)	TO-15	--	--	--	1,900	6,100		66,000	210,000	
Lab Sample ID		0408033C-08A			0408033C-11A			0408033C-10A		
Field Sample ID		072904VMP-23-M			072904VMP-24-S			072904VMP-24-M		
ISOBUTANE	TO-14A	6,000,000	14,000,000		570,000	1,400,000		5,500,000	13,000,000	
BUTANE	TO-14A	14,000,000	34,000,000		1,000,000	2,400,000		16,000,000	37,000,000	
TRANS-2-BUTENE	TO-14A	12,000	29,000		270	640	U	5,600	13,000	
1-BUTENE	TO-14A	3,300	7,600	U	1,700	3,900		3,500	8,200	U
CIS-2-BUTENE	TO-14A	3,300	7,600	U	480	1,100		3,500	8,200	U
ACETYLENE	TO-14A	8,200	8,900	U	680	740	U	8,800	9,600	U
ETHENE	TO-14A	8,200	9,600	U	680	800	U	8,800	10,000	U
PROPANE	TO-14A	110,000	210,000		5,400	10,000		100,000	190,000	
ETHANE	TO-14A	130,000	160,000		4,800	6,000		130,000	160,000	
PROPYLENE	TO-14A	8,200	14,000	U	680	1,200	U	8,800	15,000	U
Lab Sample ID		0408033B-08A			0408033B-11A			0408033B-10A		
Field Sample ID		072904VMP-23-M			072904VMP-24-S			072904VMP-24-M		
Compound	**Method**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**
OXYGEN	D-1946	1.4	--	--	9.7	--	--	1.6	--	--
METHANE	D-1946	68	680,000,000	450,000,000	4.6	46,000,000	31,000,000	67	670,000,000	450,000,000
CARBON DIOXIDE	D-1946	18	--	--	6.1	--	--	16	--	--

TABLE 2-8c

Summary of Soil Vapor Analytical results (Samples Collected August 10, 2004)
Hartford Community Center

Vapor Monitoring Point		VMP-1S			VMP-1D			VMP-2S		
Lab Sample ID		0408408A-10A			0408237B-24A			0408408A-03A		
Field Sample ID		081004VMP-1S			081004VMP-1D			081004VMP-2S		
Sample Date		10-Aug-04			10-Aug-04			10-Aug-04		
Sample Type		Soil Vapor			Soil Vapor			Soil Vapor		
Sample Container		Grab 6-L Summa			Grab 6-L Summa			Grab 6-L Summa		
Sample Description		Hartford Community Center. Soil vapor sample from vapor monitoring point VMP-1S.			Hartford Community Center. Soil vapor sample from vapor monitoring point VMP-1D, located in alley/Arbor Street near Delmar.			Hartford Community Center. Soil vapor sample from vapor monitoring point VMP-2S.		
Compound	**Method**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**
BENZENE	TO15	200	660		86,000	280,000	U	3.5	11	U
ETHYL BENZENE	TO15	180	770	U	86,000	380,000	U	3.5	15	U
STYRENE (MONOMER)	TO15	180	760	U	86,000	370,000	U	3.5	15	U
TOLUENE	TO15	180	670	U	86,000	330,000	U	3.5	13	U
1,2,4-TRIMETHYLBENZENE	TO15	180	870	U	86,000	430,000	U	3.5	17	U
1,3,5-TRIMETHYLBENZENE	TO15	180	870	U	86,000	430,000	U	3.5	17	U
M,P-XYLENE	TO15	180	770	U	86,000	380,000	U	3.5	15	U
O-XYLENE	TO15	180	770	U	86,000	380,000	U	3.5	15	U
CYCLOHEXANE	TO15	700	2,400	U	340,000	1,200,000	U	14	49	U
CYCLOPENTANE	TO15	700	2,000	U	340,000	1,000,000	U	14	41	U
2,2-DIMETHYLBUTANE	TO15	700	2,500	U	340,000	1,200,000	U	400	1,400	
2,3-DIMETHYLBUTANE	TO15	1,600	5,600		820,000	2,900,000		33	120	
2,3-DIMETHYLPENTANE	TO15	810	3,400		700,000	2,900,000		16	68	
2,4-DIMETHYLPENTANE	TO15	700	2,900	U	460,000	1,900,000		14	58	U
HEPTANE	TO15	700	2,900	U	340,000	1,400,000	U	14	58	U
HEXANE	TO15	700	2,500	U	340,000	1,200,000	U	14	50	U
ISOPRENE	TO15	700	2,000	U	340,000	970,000	U	14	40	U
CUMENE	TO15	700	3,500	U	340,000	1,700,000	U	14	70	U
ISOPENTANE	TO15	24,000	71,000		14,000,000	41,000,000		340	1,000	
METHYLCYLOHEXANE	TO15	700	2,800	U	340,000	1,400,000	U	14	57	U
METHYLCYCLOPENTANE	TO15	910	3,200		340,000	1,200,000	U	14	49	U
2-METHYLHEPTANE	TO15	700	3,300	U	340,000	1,600,000	U	14	66	U
3-METHYLHEPTANE	TO15	700	3,300	U	340,000	1,600,000	U	14	66	U
2-METHYLHEXANE	TO15	700	2,900	U	340,000	1,400,000	U	58	14	U
3-METHYLHEXANE	TO15	700	2,900	U	340,000	1,400,000	U	14	58	U
2-METHYLPENTANE	TO15	2,000	7,200		340,000	1,200,000	U	14	50	U
3-METHYLPENTANE	TO15	3,000	11,000		1,900,000	6,700,000		43	160	
NONANE	TO15	700	3,700	U	340,000	1,800,000	U	14	75	U
OCTANE	TO15	700	3,300	U	340,000	1,600,000	U	14	66	U
PENTANE	TO15	700	2,100	U	340,000	1,000,000	U	14	42	U
1-PENTENE	TO15	700	2,000	U	340,000	1,000,000	U	14	41	U
CIS-2-PENTENE	TO15	700	2,000	U	340,000	1,000,000	U	14	41	U
TRANS-2-PENTENE	TO15	700	2,000	U	340,000	1,000,000	U	14	41	U
PROPYLBENZENE	TO15	700	3,500	U	340,000	1,700,000	U	14	70	U
2,2,4-TRIMETHYLPENTANE	TO15	700	3,300	U	580,000	2,800,000		120	560	
2,3,4-TRIMETHYLPENTANE	TO15	700	3,300	U	340,000	1,600,000	U	14	66	U
1-HEXENE	TO15	700	2,400	U	340,000	1,200,000	U	14	49	U
3-ETHYLTOLUENE	TO15	700	3,500	U	340,000	1,700,000	U	14	70	U
4-ETHYLTOLUENE	TO15	700	3,500	U	340,000	1,700,000	U	14	70	U
2-ETHYLTOLUENE	TO15	700	3,500	U	340,000	1,700,000	U	14	70	U
DECANE	TO15	700	4,100	U	340,000	2,000,000	U	14	83	U
1,2,3-TRIMETHYLBENZENE	TO15	700	3,500	U	340,000	1,700,000	U	14	70	U
1,3-DIETHYLBENZENE	TO15	700	3,900	U	340,000	1,900,000	U	14	78	U
1,4-DIETHYLBENZENE	TO15	700	3,900	U	340,000	1,900,000	U	14	78	U
UNDECANE	TO15	700	4,500	U	340,000	2,200,000	U	14	91	U
CIS-2-HEXENE	TO15	1,800	6,100	U	860,000	3,000,000	U	35	120	U
TRANS-2-HEXENE	TO15	1,800	6,100	U	860,000	3,000,000	U	35	120	U
ALPHA-PINENE	TO15	1,800	9,900	U	860,000	4,800,000	U	35	200	U
BETA-PINENE	TO15	1,800	9,900	U	860,000	4,800,000	U	35	200	U
CYCLOPENTENE	TO15	700	2,000	U	340,000	970,000	U	14	40	U
1-UNDECENE	TO15	1,800	11,000	U	860,000	5,500,000	UJ	35	220	U
1-DECENE	TO15	1,800	10,000	U	860,000	5,000,000	U	35	200	U
1-NONENE	TO15	700	3,700	U	340,000	1,800,000	U	14	73	U
1-OCTENE	TO15	700	3,300	U	340,000	1,600,000	U	14	65	U
1-HEPTENE	TO15	700	2,800	U	340,000	1,400,000	U	14	57	U
1,3-BUTADIENE	TO15	180	390	U	86,000	190,000	U	3.5	7.9	U
Lab Sample ID					0408237J-24A			0408408D-03A		
Field Sample ID					081004VMP-1D			081004VMP-2S		
BENZENE (Rerun)	TO15	--	--	--	8,900	29,000		0.88	2.8	U
Lab Sample ID		0408408B-10A			0408237D-24A			0408408B-03A		
Field Sample ID		081004VMP-1S			081004VMP-1D			081004VMP-2S		
ISOBUTANE	TO-14A	5000	12000		3,000,000	7,200,000		160	380	
BUTANE	TO-14A	800	1900		5,200,000	12,000,000		250	610	
TRANS-2-BUTENE	TO-14A	3.5	8.2	U	1,400	3,200	U	14	34	
1-BUTENE	TO-14A	3.5	8.2	U	1,800	4,100		5.3	12	
CIS-2-BUTENE	TO-14A	3.5	8.2	U	1,400	3,200	U	11	26	
Lab Sample ID		0408408C-10A			0408237F-24A			0408408C-03A		
Field Sample ID		081004VMP-1S			081004VMP-1D			081004VMP-2S		
Compound	**Method**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**
OXYGEN	D-1946	20	--	--	4.0	--	--	20	--	--
METHANE	D-1946	0.20	2,000,000	1,300,000	60	600,000,000	400,000,000	0.20	2,000,000	1,300,000
CARBON DIOXIDE	D-1946	0.22	--	--	15	--	--	0.22	--	--

TABLE 2-8c

Summary of Soil Vapor Analytical results (Samples Collected August 10, 2004)
Hartford Community Center

Vapor Monitoring Point		VMP-2D			VMP-3			VMP-6S		
Lab Sample ID		0408237A-04A			0408408A-11A			0408408A-08A		
Field Sample ID		081004VMP-2D			081004VMP-3			081004VMP-6S		
Sample Date		10-Aug-04			10-Aug-04			10-Aug-04		
Sample Type		Soil Vapor			Soil Vapor			Soil Vapor		
Sample Container		Grab 6-L Summa			Grab 6-L Summa			Grab 6-L Summa		
Sample Description		Hartford Community Center. Soil vapor sample from vapor monitoring point VMP-2D, located near sewer manhole in alley.			Hartford Community Center. Soil vapor sample from vapor monitoring point VMP-3.			Hartford Community Center. Soil vapor sample from vapor monitoring point VMP-6S.		
Compound	**Method**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**
BENZENE	TO15	170,000	540,000	U	17,000	54,000	U	300,000	990,000	
ETHYL BENZENE	TO15	170,000	740,000	U	17,000	74,000	U	170,000	740,000	U
STYRENE (MONOMER)	TO15	170,000	730,000	U	17,000	73,000	U	170,000	730,000	U
TOLUENE	TO15	170,000	640,000	U	17,000	64,000	U	170,000	640,000	U
1,2,4-TRIMETHYLBENZENE	TO15	170,000	840,000	U	17,000	84,000	U	170,000	840,000	U
1,3,5-TRIMETHYLBENZENE	TO15	170,000	840,000	U	17,000	84,000	U	170,000	840,000	U
M,P-XYLENE	TO15	170,000	740,000	U	17,000	74,000	U	170,000	740,000	U
O-XYLENE	TO15	170,000	740,000	U	17,000	74,000	U	170,000	740,000	U
CYCLOHEXANE	TO15	670,000	2,400,000	U	67,000	240,000	U	670,000	2,400,000	U
CYCLOPENTANE	TO15	670,000	2,000,000	U	67,000	200,000	U	670,000	2,000,000	U
2,2-DIMETHYLBUTANE	TO15	670,000	2,400,000	U	150,000	530,000		670,000	2,400,000	U
2,3-DIMETHYLBUTANE	TO15	1,200,000	4,500,000		400,000	1,400,000		990,000	3,500,000	
2,3-DIMETHYLPENTANE	TO15	800,000	3,300,000		240,000	1,000,000		710,000	3,000,000	
2,4-DIMETHYLPENTANE	TO15	670,000	2,800,000	U	170,000	700,000		670,000	2,800,000	U
HEPTANE	TO15	670,000	2,800,000	U	67,000	280,000	U	670,000	2,800,000	U
HEXANE	TO15	670,000	2,400,000	U	67,000	240,000	U	2,100,000	7,500,000	U
ISOPRENE	TO15	670,000	1,900,000	U	67,000	190,000	U	670,000	1,900,000	U
CUMENE	TO15	670,000	3,400,000	U	67,000	340,000	U	670,000	3,400,000	U
ISOPENTANE	TO15	18,000,000	53,000,000		1,900,000	5,800,000		18,000,000	54,000,000	
METHYLCYLOHEXANE	TO15	670,000	2,700,000	U	67,000	270,000	U	670,000	2,700,000	U
METHYLCYCLOPENTANE	TO15	670,000	2,400,000	U	67,000	240,000	U	940,000	3,300,000	
2-METHYLHEPTANE	TO15	670,000	3,200,000	U	67,000	320,000	U	670,000	3,200,000	U
3-METHYLHEPTANE	TO15	670,000	3,200,000	U	67,000	320,000	U	670,000	3,200,000	U
2-METHYLHEXANE	TO15	670,000	2,800,000	U	67,000	280,000	U	670,000	2,800,000	U
3-METHYLHEXANE	TO15	670,000	2,800,000	U	67,000	280,000	U	670,000	2,800,000	U
2-METHYLPENTANE	TO15	670,000	2,400,000	U	200,000	710,000		3,600,000	13,000,000	
3-METHYLPENTANE	TO15	2,500,000	9,100,000		390,000	1,400,000		2,100,000	7,600,000	
NONANE	TO15	670,000	3,600,000	U	67,000	360,000	U	670,000	3,600,000	U
OCTANE	TO15	670,000	3,200,000	U	67,000	320,000	U	670,000	3,200,000	U
PENTANE	TO15	670,000	2,000,000	U	360,000	1,100,000		7,100,000	21,000,000	
1-PENTENE	TO15	670,000	2,000,000	U	67,000	200,000	U	670,000	2,000,000	U
CIS-2-PENTENE	TO15	670,000	2,000,000	U	67,000	200,000	U	670,000	2,000,000	U
TRANS-2-PENTENE	TO15	670,000	2,000,000	U	67,000	200,000	U	670,000	2,000,000	U
PROPYLBENZENE	TO15	670,000	3,400,000	U	67,000	340,000	U	670,000	3,400,000	U
2,2,4-TRIMETHYLPENTANE	TO15	670,000	3,200,000	U	220,000	1,000,000		670,000	3,200,000	U
2,3,4-TRIMETHYLPENTANE	TO15	670,000	3,200,000	U	67,000	320,000	U	670,000	3,200,000	U
1-HEXENE	TO15	670,000	2,400,000	U	67,000	240,000	U	670,000	2,400,000	U
3-ETHYLTOLUENE	TO15	670,000	3,400,000	U	67,000	340,000	U	670,000	3,400,000	U
4-ETHYLTOLUENE	TO15	670,000	3,400,000	U	67,000	340,000	U	670,000	3,400,000	U
2-ETHYLTOLUENE	TO15	670,000	3,400,000	U	67,000	340,000	U	670,000	3,400,000	U
DECANE	TO15	670,000	4,000,000	U	67,000	400,000	U	670,000	4,000,000	U
1,2,3-TRIMETHYLBENZENE	TO15	670,000	3,400,000	U	67,000	340,000	U	670,000	3,400,000	U
1,3-DIETHYLBENZENE	TO15	670,000	3,700,000	U	67,000	370,000	U	670,000	3,700,000	U
1,4-DIETHYLBENZENE	TO15	670,000	3,700,000	U	67,000	370,000	U	670,000	3,700,000	U
UNDECANE	TO15	670,000	4,400,000	U	67,000	440,000	U	670,000	4,400,000	U
CIS-2-HEXENE	TO15	1,700,000	5,900,000	U	170,000	590,000	U	1,700,000	5,900,000	U
TRANS-2-HEXENE	TO15	1,700,000	5,900,000	U	170,000	590,000	U	1,700,0000	5,900,000	U
ALPHA-PINENE	TO15	1,700,000	9,500,000	U	170,000	950,000	U	1,700,000	9,500,000	U
BETA-PINENE	TO15	1,700,000	9,500,000	U	170,000	950,000	U	1,700,000	9,500,000	U
CYCLOPENTENE	TO15	670,000	1,900,000	U	67,000	190,000	U	670,000	1,900,000	U
1-UNDECENE	TO15	1,700,000	11,000,000	U	170,000	1,100,000	U	1,700,000	11,000,000	U
1-DECENE	TO15	1,700,000	9,800,000	U	170,000	980,000	U	1,700,000	9,800,000	U
1-NONENE	TO15	670,000	3,500,000	U	67,000	350,000	U	670,000	3,500,000	U
1-OCTENE	TO15	670,000	3,100,000	U	67,000	310,000	U	670,000	3,100,000	U
1-HEPTENE	TO15	670,000	2,700,000	U	67,000	270,000	U	670,000	2,700,000	U
1,3-BUTADIENE	TO15	170,000	380,000	U	17,000	38,000	U	170,000	380,000	U
Lab Sample ID		**0408237J-04A**			**0408408E-04A**					
Field Sample ID		**081004VMP-2D**			**081004VMP-3**					
BENZENE (Rerun)	TO15	340	1,100	U	110	360	U	--	--	--
Lab Sample ID		**0408237C-04A**			**0408408B-04A**			**0408408B-08A**		
Field Sample ID		**081004VMP-2D**			**081004VMP-3**			**081004VMP-6S**		
ISOBUTANE	TO-14A	4,300,000	10,000,000		11	26		3,500,000	8,400,000	
BUTANE	TO-14A	5,100	12,000		17	41		11,000,000	26,000,000	
TRANS-2-BUTENE	TO-14A	1,200	2,800	U	3.2	7.5	U	150,000	3,600,000	
1-BUTENE	TO-14A	1,200	2,800	U	3.2	7.5	U	7,000	16,000	
CIS-2-BUTENE	TO-14A	1,200	2,800	U	3.2	7.5	U	62,000	140,000	
Lab Sample ID		**0408237E-04A**			**0408408C-11A**			**0408408C-08A**		
Field Sample ID		**081004VMP-2D**			**081004VMP-3**			**081004VMP-6S**		
Compound	**Method**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**
OXYGEN	D-1946	1.2	--	--	4.0	--	--	5.6	--	--
METHANE	D-1946	43	430,000,000	290,000,000	9.6	96,000,000	64,000,000	47	470,000,000	310,000,000
CARBON DIOXIDE	D-1946	17	--	--	22	--	--	6.9	--	--

TABLE 2-8c

Summary of Soil Vapor Analytical results (Samples Collected August 10, 2004)
Hartford Community Center

Vapor Monitoring Point		VMP-6M			VMP-6D			VMP-7		
Lab Sample ID		0408237B-25A			0408237A-06A			0408408A-02A		
Field Sample ID		081004VMP-6M			081004VMP-6D			081004VMP-7		
Sample Date		10-Aug-04			10-Aug-04			10-Aug-04		
Sample Type		Soil Vapor			Soil Vapor			Soil Vapor		
Sample Container		Grab 6-L Summa			Grab 6-L Summa			Grab 6-L Summa		
Sample Description		Hartford Community Center. Soil vapor sample from vapor monitoring point VMP-6M.			Hartford Community Center. Soil vapor sample from vapor monitoring point VMP-6D.			Hartford Community Center. Soil vapor sample from vapor monitoring point VMP-7.		
Compound	**Method**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**
BENZENE	TO15	140,000	440,000		300,000	980,000		260,000	860,000	U
ETHYL BENZENE	TO15	88,000	390,000	U	84,000	370,000	U	260,000	1,200,000	U
STYRENE (MONOMER)	TO15	88,000	380,000	U	84,000	360,000	U	260,000	1,100,000	U
TOLUENE	TO15	88,000	340,000	U	520,000	2,000,000		260,000	1,000,000	U
1,2,4-TRIMETHYLBENZENE	TO15	88,000	440,000	U	84,000	420,000	U	260,000	1,300,000	U
1,3,5-TRIMETHYLBENZENE	TO15	88,000	440,000	U	84,000	420,000	U	260,000	1,300,000	U
M,P-XYLENE	TO15	88,000	390,000	U	130,000	590,000		260,000	1,200,000	U
O-XYLENE	TO15	88,000	390,000	U	84,000	370,000	U	260,000	1,200,000	U
CYCLOHEXANE	TO15	350,000	1,200,000	U	340,000	1,200,000	U	1,000,000	3,700,000	U
CYCLOPENTANE	TO15	350,000	1,000,000	U	390,000	1,100,000		1,000,000	3,100,000	U
2,2-DIMETHYLBUTANE	TO15	350,000	1,200,000	U	340,000	1,200,000	U	1,000,000	3,800,000	U
2,3-DIMETHYLBUTANE	TO15	630,000	2,300,000		1,000,000	3,600,000		1,900,000	6,700,000	
2,3-DIMETHYLPENTANE	TO15	370,000	1,600,000		540,000	2,200,000		1,400,000	5,900,000	
2,4-DIMETHYLPENTANE	TO15	350,000	1,400,000	U	380,000	1,600,000		1,000,000	4,400,000	U
HEPTANE	TO15	350,000	1,400,000	U	340,000	1,400,000	U	1,000,000	4,400,000	U
HEXANE	TO15	1,200,000	4,300,000		2,200,000	7,700,000		1,200,000	4,400,000	
ISOPRENE	TO15	350,000	990,000	U	340,000	950,000	U	1,000,000	3,000,000	U
CUMENE	TO15	350,000	1,700,000	U	340,000	1,700,000	U	1,000,000	5,300,000	U
ISOPENTANE	TO15	11,000,000	33,000,000		16,000,000	48,000,000		30,000,000	91,000,000	
METHYLCYLOHEXANE	TO15	350,000	1,400,000	U	340,000	1,400,000	U	1,000,000	4,300,000	U
METHYLCYCLOPENTANE	TO15	580,000	2,000,000		710,000	2,500,000		1,200,000	4,100,000	
2-METHYLHEPTANE	TO15	350,000	1,700,000	U	340,000	1,600,000	U	1,000,000	5,000,000	U
3-METHYLHEPTANE	TO15	350,000	1,600,000	U	340,000	1,600,000	U	1,000,000	5,000,000	U
2-METHYLHEXANE	TO15	350,000	1,400,000	U	470,000	2,000,000		1,000,000	4,400,000	U
3-METHYLHEXANE	TO15	350,000	1,400,000	U	450,000	1,900,000		1,000,000	4,400,000	U
2-METHYLPENTANE	TO15	2,000,000	7,100,000		4,200,000	15,000,000		5,400,000	19,000,000	
3-METHYLPENTANE	TO15	1,200,000	4,300,000		1,900,000	7,000,000		3,300,000	12,000,000	
NONANE	TO15	350,000	1,900,000	U	340,000	1,800,000	U	1,000,000	5,600,000	U
OCTANE	TO15	350,000	1,700,000	U	340,000	1,600,000	U	1,000,000	5,000,000	U
PENTANE	TO15	4,400,000	13,000,000		6,600,000	20,000,000		8,100,000	24,000,000	
1-PENTENE	TO15	350,000	1,000,000	U	340,000	980,000	U	1,000,000	3,100,000	U
CIS-2-PENTENE	TO15	350,000	1,000,000	U	340,000	980,000	U	1,000,000	3,100,000	U
TRANS-2-PENTENE	TO15	350,000	1,000,000	U	410,000	1,200,000		1,000,000	3,100,000	U
PROPYLBENZENE	TO15	350,000	1,700,000	U	340,000	1,700,000	U	1,000,000	5,300,000	U
2,2,4-TRIMETHYLPENTANE	TO15	350,000	1,700,000	U	410,000	1,900,000		1,000,000	5,000,000	U
2,3,4-TRIMETHYLPENTANE	TO15	350,000	1,700,000	U	340,000	1,600,000	U	1,000,000	5,000,000	U
1-HEXENE	TO15	350,000	1,200,000	U	340,000	1,200,000	U	1,000,000	3,700,000	U
3-ETHYLTOLUENE	TO15	350,000	1,700,000	U	340,000	1,700,000	U	1,000,000	5,300,000	U
4-ETHYLTOLUENE	TO15	350,000	1,700,000	U	340,000	1,700,000	U	1,000,000	5,300,000	U
2-ETHYLTOLUENE	TO15	350,000	1,700,000	U	340,000	1,700,000	U	1,000,000	5,300,000	U
DECANE	TO15	350,000	2,100,000	U	340,000	2,000,000	U	1,000,000	6,200,000	U
1,2,3-TRIMETHYLBENZENE	TO15	350,000	1,700,000	U	340,000	1,700,000	U	1,000,000	5,300,000	U
1,3-DIETHYLBENZENE	TO15	350,000	1,900,000	U	340,000	1,900,000	U	1,000,000	5,900,000	U
1,4-DIETHYLBENZENE	TO15	350,000	2,000,000	U	340,000	1,900,000	U	1,000,000	5,900,000	U
UNDECANE	TO15	350,000	2,300,000	U	340,000	2,200,000	U	1,000,000	6,800,000	U
CIS-2-HEXENE	TO15	880,000	3,000,000	U	840,000	2,900,000	U	2,600,000	9,200,000	U
TRANS-2-HEXENE	TO15	880,000	3,100,000	U	840,000	2,900,000	U	2,600,000	9,200,000	U
ALPHA-PINENE	TO15	880,000	5,000,000	U	840,000	4,800,000	U	2,600,000	15,000,000	U
BETA-PINENE	TO15	880,000	5,000,000	U	840,000	4,800,000	U	2,600,000	15,000,000	U
CYCLOPENTENE	TO15	350,000	990,000	U	340,000	950,000	U	1,000,000	3,000,000	U
1-UNDECENE	TO15	880,000	5,600,000	UJ	840,000	5,400,000	U	2,600,000	1,700,000	U
1-DECENE	TO15	880,000	5,100,000	U	840,000	4,900,000	U	2,600,000	1,500,000	U
1-NONENE	TO15	350,000	1,800,000	U	340,000	1,800,000	U	1,000,000	5,500,000	U
1-OCTENE	TO15	350,000	1,600,000	U	340,000	1,600,000	U	1,000,000	4,900,000	U
1-HEPTENE	TO15	350,000	1,400,000	U	340,000	1,400,000	U	1,000,000	4,300,000	U
1,3-BUTADIENE	TO15	88,000	200,000	U	84,000	190,000	U	260,000	590,000	U
Lab Sample ID								0408408D-02A		
Field Sample ID								081004VMP-7		
BENZENE (Rerun)	TO15	--	--	--	--	--	--	40,000	130,000	
Lab Sample ID		0408237D-25A			0408237C-06A			0408408B-02A		
Field Sample ID		081004VMP-6M			081004VMP-6D			081004VMP-7		
ISOBUTANE	TO-14A	2,700,000	6,500,000		3,800,000	9,200,000		6,100,000	15,000,000	
BUTANE	TO-14A	8,400,000	20,000,000		11,000,000	27,000,000		38,000,000	91,000,000	
TRANS-2-BUTENE	TO-14A	2,300	5,400	U	2,700	6,200	U	78,000	180,000	
1-BUTENE	TO-14A	120,000	280,000		130,000	300,000		9,700	23,000	U
CIS-2-BUTENE	TO-14A	48,000	110,000		67,000	160,000		18,000	41,000	
Lab Sample ID		0408237F-25A			0408237E-06A			0408408C-02A		
Field Sample ID		081004VMP-6M			081004VMP-6D			081004VMP-7		
Compound	**Method**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**
OXYGEN	D-1946	9.2	--	--	4.9	--	--	0.16	--	--
METHANE	D-1946	35	350,000,000	230,000,000	54	540,000,000	360,000,000	59	590,000,000	390,000,000
CARBON DIOXIDE	D-1946	3.9	--	--	13	--	--	25	--	--

TABLE 2-8c

Summary of Soil Vapor Analytical results (Samples Collected August 10, 2004)
Hartford Community Center

Vapor Monitoring Point		VMP-8			VMP-10			VMP-11		
Lab Sample ID		0408408A-01A			0407566A-01A			0407566A-02A		
Field Sample ID		081004VMP-8			081004VMP-10			081004VMP-11		
Sample Date		10-Aug-04			10-Aug-04			10-Aug-04		
Sample Type		Soil Vapor			Soil Vapor			Soil Vapor		
Sample Container		Grab 6-L Summa			Grab 6-L Summa			Grab 6-L Summa		
Sample Description		Hartford Community Center. Soil vapor sample from vapor monitoring point VMP-8.			Hartford Community Center. Soil vapor sample from vapor monitoring point VMP-10.			Hartford Community Center. Soil vapor sample from vapor monitoring point VMP-11.		
Compound	**Method**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**
BENZENE	TO15	200	640		23	74		3.2	10	
ETHYL BENZENE	TO15	41	180	U	6.4	28	U	0.8	3.6	U
STYRENE (MONOMER)	TO15	41	180	U	--	--	--	--	--	--
TOLUENE	TO15	41	160	U	6.4	25	U	0.8	3.1	U
1,2,4-TRIMETHYLBENZENE	TO15	41	200	U	22	110		5.0	25	
1,3,5-TRIMETHYLBENZENE	TO15	41	200	U	14	72		2.3	11	
M,P-XYLENE	TO15	41	180	U	16	69		3.4	15	
O-XYLENE	TO15	41	180	U	19	82		0.8	3.6	U
CYCLOHEXANE	TO15	520	1,800		--	--	--	--	--	--
CYCLOPENTANE	TO15	400	1,200		--	--	--	--	--	--
2,2-DIMETHYLBUTANE	TO15	160	590	U	--	--	--	--	--	--
2,3-DIMETHYLBUTANE	TO15	640	2,300		--	--	--	--	--	--
2,3-DIMETHYLPENTANE	TO15	1,400	5,700		--	--	--	--	--	--
2,4-DIMETHYLPENTANE	TO15	660	2,700		--	--	--	--	--	--
HEPTANE	TO15	160	680	U	--	--	--	--	--	--
HEXANE	TO15	160	590	U	6.4	23	U	1.7	6.0	
ISOPRENE	TO15	160	460	U	--	--	--	--	--	--
CUMENE	TO15	160	820	U	--	--	--	--	--	--
ISOPENTANE	TO15	4,500	14,000		1,800	5,400		12	36	
METHYLCYLOHEXANE	TO15	750	3,100		--	--	--	--	--	--
METHYLCYCLOPENTANE	TO15	1,400	4,900		--	--	--	--	--	--
2-METHYLHEPTANE	TO15	160	780	U	--	--	--	--	--	--
3-METHYLHEPTANE	TO15	160	780	U	--	--	--	--	--	--
2-METHYLHEXANE	TO15	160	680	U	--	--	--	--	--	--
3-METHYLHEXANE	TO15	250	1,000		--	--	--	--	--	--
2-METHYLPENTANE	TO15	1,300	4,800		--	--	--	--	--	--
3-METHYLPENTANE	TO15	1,700	6,200		--	--	--	--	--	--
NONANE	TO15	160	870	U	--	--	--	--	--	--
OCTANE	TO15	160	780	U	--	--	--	--	--	--
PENTANE	TO15	1,400	4,300		--	--	--	--	--	--
1-PENTENE	TO15	160	480	U	--	--	--	--	--	--
CIS-2-PENTENE	TO15	160	480	U	--	--	--	--	--	--
TRANS-2-PENTENE	TO15	160	480	U	--	--	--	--	--	--
PROPYLBENZENE	TO15	490	2,400		--	--	--	--	--	--
2,2,4-TRIMETHYLPENTANE	TO15	1,200	5,500		--	--	--	--	--	--
2,3,4-TRIMETHYLPENTANE	TO15	160	780	U	--	--	--	--	--	--
1-HEXENE	TO15	160	570	U	--	--	--	--	--	--
3-ETHYLTOLUENE	TO15	160	820	U	--	--	--	--	--	--
4-ETHYLTOLUENE	TO15	160	820	U	--	--	--	--	--	--
2-ETHYLTOLUENE	TO15	160	820	U	--	--	--	--	--	--
DECANE	TO15	160	970	U	--	--	--	--	--	--
1,2,3-TRIMETHYLBENZENE	TO15	160	820	U	--	--	--	--	--	--
1,3-DIETHYLBENZENE	TO15	160	910	U	--	--	--	--	--	--
1,4-DIETHYLBENZENE	TO15	160	920	U	--	--	--	--	--	--
UNDECANE	TO15	160	1,100	U	--	--	--	--	--	--
CIS-2-HEXENE	TO15	410	1,400	U	--	--	--	--	--	--
TRANS-2-HEXENE	TO15	410	1,400	U	--	--	--	--	--	--
ALPHA-PINENE	TO15	410	2,300	U	--	--	--	--	--	--
BETA-PINENE	TO15	410	2,300	U	--	--	--	--	--	--
CYCLOPENTENE	TO15	160	460	U	--	--	--	--	--	--
1-UNDECENE	TO15	410	2,600	U	--	--	--	--	--	--
1-DECENE	TO15	410	2,400	U	--	--	--	--	--	--
1-NONENE	TO15	160	860	U	--	--	--	--	--	--
1-OCTENE	TO15	160	760	U	--	--	--	--	--	--
1-HEPTENE	TO15	160	670	U	--	--	--	--	--	--
1,3-BUTADIENE	TO15	41	92	U	6.4	14	U	0.8	1.8	U
Lab Sample ID										
Field Sample ID					081004VMP-10			081004VMP-11		
BENZENE (Rerun)	TO15	--	--	--	--	--	--	--	--	--
Lab Sample ID		0408408B-01A								
Field Sample ID		081004VMP-8			081004VMP-10			081004VMP-11		
ISOBUTANE	TO-14A	700	1700		--	--	--	--	--	--
BUTANE	TO-14A	1900	4600		--	--	--	--	--	--
TRANS-2-BUTENE	TO-14A	4.1	9.6		--	--	--	--	--	--
1-BUTENE	TO-14A	3.3	7.6	U	--	--	--	--	--	--
CIS-2-BUTENE	TO-14A	3.3	7.6	U	--	--	--	--	--	--
Lab Sample ID		0408408C-01A								
Field Sample ID		081004VMP-8			081004VMP-10			081004VMP-11		
Compound	**Method**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**
OXYGEN	D-1946	20	--	--	--	--	--	--	--	--
METHANE	D-1946	0.015	150,000	100,000	--	--	--	--	--	--
CARBON DIOXIDE	D-1946	0.21	--	--	--	--	--	--	--	--

TABLE 2-8c

Summary of Soil Vapor Analytical results (Samples Collected August 10, 2004)
Hartford Community Center

Vapor Monitoring Point		VMP-22S			VMP-22M			VMP-22D		
Lab Sample ID		0407566B-03A			0407566B-04A			0408237A-09A		
Field Sample ID		081004VMP-22S			081004VMP-22M			081004VMP-22D		
Sample Date		10-Aug-04			10-Aug-04			10-Aug-04		
Sample Type		Soil Vapor			Soil Vapor			Soil Vapor		
Sample Container		Grab 6-L Summa			Grab 6-L Summa			Grab 6-L Summa		
Sample Description		Hartford Community Center. Soil vapor sample from vapor monitoring point VMP-22S.			Hartford Community Center. Soil vapor sample from vapor monitoring point VMP-22M.			Hartford Community Center. Soil vapor sample from vapor monitoring point VMP-22D.		
Compound	**Method**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**
BENZENE	TO15	44,000	140,000	U	57,000	180,000	U	180,000	580,000	
ETHYL BENZENE	TO15	44,000	200,000	U	57,000	250,000	U	86,000	380,000	U
STYRENE (MONOMER)	TO15	44,000	190,000	U	57,000	250,000	U	86,000	370,000	U
TOLUENE	TO15	44,000	170,000	U	57,000	220,000	U	340,000	1,300,000	
1,2,4-TRIMETHYLBENZENE	TO15	44,000	220,000	U	57,000	280,000	U	86,000	430,000	U
1,3,5-TRIMETHYLBENZENE	TO15	44,000	220,000	U	57,000	280,000	U	86,000	430,000	U
M,P-XYLENE	TO15	44,000	200,000	U	57,000	250,000	U	86,000	380,000	U
O-XYLENE	TO15	44,000	200,000	U	57,000	250,000	U	86,000	380,000	U
CYCLOHEXANE	TO15	190,000	660,000		230,000	800,000	U	340,000	1,200,000	U
CYCLOPENTANE	TO15	180,000	520,000		230,000	660,000	U	430,000	1,200,000	
2,2-DIMETHYLBUTANE	TO15	180,000	640,000	U	230,000	820,000	U	340,000	1,200,000	U
2,3-DIMETHYLBUTANE	TO15	620,000	2,200,000		540,000	1,900,000		920,000	3,300,000	
2,3-DIMETHYLPENTANE	TO15	620,000	2,600,000		600,000	2,500,000		340,000	1,400,000	U
2,4-DIMETHYLPENTANE	TO15	380,000	1,600,000		320,000	1,300,000		340,000	1,400,000	U
HEPTANE	TO15	180,000	740,000	U	230,000	950,000	U	340,000	1,400,000	U
HEXANE	TO15	180,000	640,000	U	230,000	820,000	U	690,000	2,500,000	
ISOPRENE	TO15	180,000	500,000	U	230,000	640,000	U	340,000	970,000	U
CUMENE	TO15	180,000	890,000	U	230,000	1,100,000	U	340,000	1,700,000	U
ISOPENTANE	TO15	8,500,000	26,000,000		7,000,000	21,000,000		14,000,000	42,000,000	
METHYLCYLOHEXANE	TO15	180,000	720,000	U	230,000	930,000	U	340,000	1,400,000	U
METHYLCYCLOPENTANE	TO15	460,000	1,600,000		300,000	1,000,000		670,000	2,300,000	
2-METHYLHEPTANE	TO15	180,000	840,000	U	230,000	1,100,000	U	340,000	1,600,000	U
3-METHYLHEPTANE	TO15	180,000	840,000	U	230,000	1,100,000	U	340,000	1,600,000	U
2-METHYLHEXANE	TO15	180,000	740,000	U	230,000	950,000	U	340,000	1,400,000	U
3-METHYLHEXANE	TO15	180,000	740,000	U	230,000	950,000	U	340,000	1,400,000	U
2-METHYLPENTANE	TO15	560,000	2,000,000		380,000	1,400,000		3,600,000	13,000,000	
3-METHYLPENTANE	TO15	1,400,000	5,000,000		1,100,000	4,000,000		1,800,000	6,500,000	
NONANE	TO15	180,000	950,000	U	230,000	1,200,000	U	340,000	1,800,000	U
OCTANE	TO15	180,000	840,000	U	230,000	1,100,000	U	340,000	1,600,000	U
PENTANE	TO15	410,000	1,200,000		270,000	810,000		4,400,000	13,000,000	
1-PENTENE	TO15	180,000	520,000	U	230,000	660,000	U	340,000	1,000,000	U
CIS-2-PENTENE	TO15	180,000	520,000	U	230,000	660,000	U	340,000	1,000,000	U
TRANS-2-PENTENE	TO15	180,000	520,000	U	230,000	660,000	U	340,000	1,000,000	U
PROPYLBENZENE	TO15	180,000	890,000	U	230,000	1,100,000	U	340,000	1,700,000	U
2,2,4-TRIMETHYLPENTANE	TO15	570,000	2,700,000		560,000	2,700,000		340,000	1,600,000	U
2,3,4-TRIMETHYLPENTANE	TO15	180,000	840,000	U	230,000	1,100,000	U	340,000	1,600,000	U
1-HEXENE	TO15	180,000	620,000	U	230,000	800,000	U	340,000	1,200,000	U
3-ETHYLTOLUENE	TO15	180,000	890,000	U	230,000	1,100,000	U	340,000	1,700,000	U
4-ETHYLTOLUENE	TO15	180,000	890,000	U	230,000	1,100,000	U	340,000	1,700,000	U
2-ETHYLTOLUENE	TO15	180,000	890,000	U	230,000	1,100,000	U	340,000	1,700,000	U
DECANE	TO15	180,000	1,000,000	U	230,000	1,300,000	U	340,000	2,000,000	U
1,2,3-TRIMETHYLBENZENE	TO15	180,000	890,000	U	230,000	1,100,000	U	340,000	1,700,000	U
1,3-DIETHYLBENZENE	TO15	180,000	990,000	U	230,000	1,300,000	U	340,000	1,900,000	U
1,4-DIETHYLBENZENE	TO15	180,000	990,000	U	230,000	1,300,000	U	340,000	1,900,000	U
UNDECANE	TO15	180,000	1,200,000	U	230,000	1,500,000	U	340,000	2,200,000	U
CIS-2-HEXENE	TO15	440,000	1,600,000	U	570,000	2,000,000	U	860,000	3,000,000	U
TRANS-2-HEXENE	TO15	440,000	1,600,000	U	570,000	2,000,000	U	860,000	3,000,000	U
ALPHA-PINENE	TO15	440,000	2,500,000	U	570,000	3,200,000	U	860,000	4,800,000	U
BETA-PINENE	TO15	440,000	2,500,000	U	570,000	3,200,000	U	860,000	4,800,000	U
CYCLOPENTENE	TO15	180,000	500,000	U	230,000	640,000	U	340,000	970,000	U
1-UNDECENE	TO15	440,000	2,800,000	U	570,000	3,600,000	U	860,000	5,500,000	U
1-DECENE	TO15	440,000	2,600,000	U	570,000	3,300,000	U	860,000	5,000,000	U
1-NONENE	TO15	180,000	930,000	U	230,000	1,200,000	U	340,000	1,800,000	U
1-OCTENE	TO15	180,000	830,000	U	230,000	1,100,000	U	340,000	1,600,000	U
1-HEPTENE	TO15	180,000	720,000	U	230,000	930,000	U	340,000	1,400,000	U
1,3-BUTADIENE	TO15	44,000	100,000	U	57,000	130,000	U	86,000	190,000	U
Lab Sample ID		0407566E-03A			0407566E-04A					
Field Sample ID		081004VMP-22S			081004VMP-22M					
BENZENE (Rerun)	TO15	1,300	4,100		1,200	3,900		--	--	--
Lab Sample ID		0407566C-03A			0407566C-04A			0408237C-09A		
Field Sample ID		081004VMP-22S			081004VMP-22M			081004VMP-22D		
ISOBUTANE	TO-14A	2,900,000	6,900,000		2,800,000	6,700,000		6,600,000	16,000,000	
BUTANE	TO-14A	1,600,000	3,800,000		1,200,000	2,800,000		14,000,000	34,000,000	
TRANS-2-BUTENE	TO-14A	710	1,700	U	610	1,400	U	3,400	8,000	U
1-BUTENE	TO-14A	940	2,200		610	1,400	U	30,000	71,000	
CIS-2-BUTENE	TO-14A	710	1,700	U	610	1,400	U	7,200	17,000	
Lab Sample ID		0407566D-03A			0407566D-04A			0408237E-09A		
Field Sample ID		081004VMP-22S			081004VMP-22M			081004VMP-22D		
Compound	**Method**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**
OXYGEN	D-1946	0.57	--	--	3.1	--	--	2.7	--	--
METHANE	D-1946	44	440,000,000	290,000,000	38	380,000,000	250,000,000	64	640,000,000	430,000,000
CARBON DIOXIDE	D-1946	13	--	--	9.2	--	--	16	--	--

TABLE 2-8c

Summary of Soil Vapor Analytical results (Samples Collected August 10, 2004)
Hartford Community Center

Vapor Monitoring Point		VMP-22D			VMP-23S			VMP-23M		
Lab Sample ID		0408237A-01A			0407566A-05A			0407566B-06A		
Field Sample ID		081004VMP-22D-Dupe			081004VMP-23S			081004VMP-23M		
Sample Date		10-Aug-04			10-Aug-04			10-Aug-04		
Sample Type		Soil Vapor			Soil Vapor			Soil Vapor		
Sample Container		Grab 6-L Summa			Grab 6-L Summa			Grab 6-L Summa		
Sample Description		Hartford Community Center. Field duplicate of 081004VMP-22D.			Hartford Community Center. Soil vapor sample from vapor monitoring point VMP-23S.			Hartford Community Center. Soil vapor sample from vapor monitoring point VMP-23M.		
Compound	**Method**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**
BENZENE	TO15	260,000	850,000		1.6	5.1	U	270,000	890,000	
ETHYL BENZENE	TO15	170,000	750,000	U	1.6	7.0	U	98,000	430,000	U
STYRENE (MONOMER)	TO15	170,000	740,000	U	--	--	--	98,000	430,000	U
TOLUENE	TO15	170,000	650,000	U	1.6	6.0	U	98,000	380,000	U
1,2,4-TRIMETHYLBENZENE	TO15	170,000	850,000	U	1.6	7.9	U	98,000	490,000	U
1,3,5-TRIMETHYLBENZENE	TO15	170,000	850,000	U	1.6	7.9	U	98,000	490,000	U
M,P-XYLENE	TO15	170,000	750,000	U	1.6	7.0	U	98,000	430,000	U
O-XYLENE	TO15	170,000	750,000	U	1.6	7.0	U	98,000	430,000	U
CYCLOHEXANE	TO15	680,000	2,400,000	U	--	--	--	390,000	1,400,000	U
CYCLOPENTANE	TO15	680,000	2,000,000	U	--	--	--	440,000	1,300,000	
2,2-DIMETHYLBUTANE	TO15	680,000	2,400,000	U	--	--	--	390,000	1,400,000	U
2,3-DIMETHYLBUTANE	TO15	680,000	2,400,000	U	--	--	--	920,000	3,300,000	
2,3-DIMETHYLPENTANE	TO15	680,000	2,800,000	U	--	--	--	740,000	3,100,000	
2,4-DIMETHYLPENTANE	TO15	680,000	2,800,000	U	--	--	--	440,000	1,800,000	
HEPTANE	TO15	680,000	2,800,000	U	--	--	--	390,000	1,600,000	U
HEXANE	TO15	680,000	2,400,000	U	1.6	5.6	U	390,000	1,400,000	U
ISOPRENE	TO15	680,000	1,900,000	U	--	--	--	390,000	1,100,000	U
CUMENE	TO15	680,000	3,400,000	U	--	--	--	390,000	2,000,000	U
ISOPENTANE	TO15	14,000,000	44,000,000		410	1,200		16,000,000	48,000,000	
METHYLCYLOHEXANE	TO15	680,000	2,800,000	U	--	--	--	390,000	1,600,000	U
METHYLCYCLOPENTANE	TO15	800,000	2,800,000		--	--	--	790,000	2,800,000	
2-METHYLHEPTANE	TO15	680,000	3,200,000	U	--	--	--	390,000	1,900,000	U
3-METHYLHEPTANE	TO15	680,000	3,200,000	U	--	--	--	390,000	1,900,000	U
2-METHYLHEXANE	TO15	680,000	2,800,000	U	--	--	--	390,000	1,600,000	U
3-METHYLHEXANE	TO15	680,000	2,800,000	U	--	--	--	390,000	1,600,000	U
2-METHYLPENTANE	TO15	1,900,000	6,700,000		--	--	--	3,100,000	11,000,000	
3-METHYLPENTANE	TO15	1,600,000	5,600,000		--	--	--	2,100,000	7,500,000	
NONANE	TO15	680,000	3,600,000	U	--	--	--	390,000	2,100,000	U
OCTANE	TO15	680,000	3,200,000	U	--	--	--	390,000	1,900,000	U
PENTANE	TO15	4,600,000	14,000,000		--	--	--	5,300,000	16,000,000	
1-PENTENE	TO15	680,000	2,000,000	U	--	--	--	390,000	1,100,000	U
CIS-2-PENTENE	TO15	680,000	2,000,000	U	--	--	--	390,000	1,100,000	U
TRANS-2-PENTENE	TO15	680,000	2,000,000	U	--	--	--	390,000	1,100,000	U
PROPYLBENZENE	TO15	680,000	3,400,000	U	--	--	--	390,000	2,000,000	U
2,2,4-TRIMETHYLPENTANE	TO15	680,000	3,200,000	U	--	--	--	620,000	3,000,000	
2,3,4-TRIMETHYLPENTANE	TO15	680,000	3,200,000	U	--	--	--	390,000	1,900,000	U
1-HEXENE	TO15	680,000	2,400,000	U	--	--	--	390,000	1,400,000	U
3-ETHYLTOLUENE	TO15	680,000	3,400,000	U	--	--	--	390,000	2,000,000	U
4-ETHYLTOLUENE	TO15	680,000	3,400,000	U	--	--	--	390,000	2,000,000	U
2-ETHYLTOLUENE	TO15	680,000	3,400,000	U	--	--	--	390,000	2,000,000	U
DECANE	TO15	680,000	4,000,000	U	--	--	--	390,000	2,300,000	U
1,2,3-TRIMETHYLBENZENE	TO15	680,000	3,400,000	U	--	--	--	390,000	2,000,000	U
1,3-DIETHYLBENZENE	TO15	680,000	3,800,000	U	--	--	--	390,000	2,200,000	U
1,4-DIETHYLBENZENE	TO15	680,000	3,800,000	U	--	--	--	390,000	2,200,000	U
UNDECANE	TO15	680,000	4,400,000	U	--	--	--	390,000	2,600,000	U
CIS-2-HEXENE	TO15	1,700,000	6,000,000	U	--	--	--	980,000	3,400,000	U
TRANS-2-HEXENE	TO15	1,700,000	6,000,000	U	--	--	--	980,000	3,400,000	U
ALPHA-PINENE	TO15	1,700,000	9,700,000	U	--	--	--	980,000	5,600,000	U
BETA-PINENE	TO15	1,700,000	9,700,000	U	--	--	--	980,000	5,600,000	U
CYCLOPENTENE	TO15	680,000	1,900,000	U	--	--	--	390,000	1,100,000	U
1-UNDECENE	TO15	1,700,000	11,000,000	U	--	--	--	980,000	6,300,000	U
1-DECENE	TO15	1,700,000	10,000,000	U	--	--	--	980,000	5,700,000	U
1-NONENE	TO15	680,000	3,600,000	U	--	--	--	390,000	2,100,000	U
1-OCTENE	TO15	680,000	3,200,000	U	--	--	--	390,000	1,800,000	U
1-HEPTENE	TO15	680,000	2,800,000	U	--	--	--	390,000	1,600,000	U
1,3-BUTADIENE	TO15	170,000	380,000	U	1.6	3.6	U	98,000	220,000	U
Lab Sample ID										
Field Sample ID		081004VMP-22D-Dupe			081004VMP-23S			081004VMP-23M		
BENZENE (Rerun)	TO15	--	--	--	--	--	--	--	--	--
Lab Sample ID		0408237C-01A						0407566C-06A		
Field Sample ID		081004VMP-22D-Dupe			081004VMP-23S			081004VMP-23M		
ISOBUTANE	TO-14A	6,100,000	15,000,000		--	--	--	5,700,000	14,000,000	
BUTANE	TO-14A	13,000,000	31,000,000		--	--	--	13,000,000	32,000,000	
TRANS-2-BUTENE	TO-14A	3,400	8,000	U	--	--	--	17,000	39,000	
1-BUTENE	TO-14A	28,000	65,000		--	--	--	3,500	8,200	U
CIS-2-BUTENE	TO-14A	6,600	15,000		--	--	--	3,600	8,500	
Lab Sample ID		0408237E-01A						0407566D-06A		
Field Sample ID		081004VMP-22D-Dupe			081004VMP-23S			081004VMP-23M		
Compound	**Method**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**
OXYGEN	D-1946	2.7	--	--	--	--	--	2.9	--	--
METHANE	D-1946	65	650,000,000	430,000,000	--	--	--	58	580,000,000	390,000,000
CARBON DIOXIDE	D-1946	16	--	--	--	--	--	16	--	--

TABLE 2-8c

Summary of Soil Vapor Analytical results (Samples Collected August 10, 2004)
Hartford Community Center

Vapor Monitoring Point		VMP-24S			VMP-24M			VMP-25S		
Lab Sample ID		0407566A-07A			0407566B-08A			0407566A-09A		
Field Sample ID		081004VMP-24S			081004VMP-24M			081004VMP-25S		
Sample Date		10-Aug-04			10-Aug-04			10-Aug-04		
Sample Type		Soil Vapor			Soil Vapor			Soil Vapor		
Sample Container		Grab 6-L Summa			Grab 6-L Summa			Grab 6-L Summa		
Sample Description		Hartford Community Center. Soil vapor sample from vapor monitoring point VMP-24S.			Hartford Community Center. Soil vapor sample from vapor monitoring point VMP-24M.			Hartford Community Center. Soil vapor sample from vapor monitoring point VMP-25S.		
Compound	**Method**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**
BENZENE	TO15	440	1,400		940,000	3,000,000	U	3.4	11	U
ETHYL BENZENE	TO15	80	360	U	940,000	4,100,000	U	3.4	15	U
STYRENE (MONOMER)	TO15	--	--	--	940,000	4,100,000	U	--	--	--
TOLUENE	TO15	80	310	U	940,000	3,600,000	U	3.4	13	U
1,2,4-TRIMETHYLBENZENE	TO15	80	400	U	940,000	4,700,000	U	14	70	
1,3,5-TRIMETHYLBENZENE	TO15	80	400	U	940,000	4,700,000	U	4.4	22	
M,P-XYLENE	TO15	120	530		940,000	4,100,000	U	3.4	15	U
O-XYLENE	TO15	80	360	U	940,000	4,100,000	U	3.4	15	U
CYCLOHEXANE	TO15	--	--	--	3,800,000	13,000,000	U	--	--	--
CYCLOPENTANE	TO15	--	--	--	3,800,000	11,000,000	U	--	--	--
2,2-DIMETHYLBUTANE	TO15	--	--	--	3,800,000	13,000,000	U	--	--	--
2,3-DIMETHYLBUTANE	TO15	--	--	--	5,800,000	21,000,000		--	--	--
2,3-DIMETHYLPENTANE	TO15	--	--	--	4,400,000	18,000,000		--	--	--
2,4-DIMETHYLPENTANE	TO15	--	--	--	3,800,000	16,000,000	U	--	--	--
HEPTANE	TO15	--	--	--	3,800,000	16,000,000	U	--	--	--
HEXANE	TO15	440	1,600		3,800,000	13,000,000	U	3.4	12	U
ISOPRENE	TO15	--	--	--	3,800,000	11,000,000	U	--	--	--
CUMENE	TO15	--	--	--	3,800,000	19,000,000	U	--	--	--
ISOPENTANE	TO15	28,000	83,000		110,000,000	320,000,000		1,000	3,000	
METHYLCYLOHEXANE	TO15	--	--	--	3,800,000	15,000,000	U	--	--	--
METHYLCYCLOPENTANE	TO15	--	--	--	4,800,000	17,000,000		--	--	--
2-METHYLHEPTANE	TO15	--	--	--	3,800,000	18,000,000	U	--	--	--
3-METHYLHEPTANE	TO15	--	--	--	3,800,000	18,000,000	U	--	--	--
2-METHYLHEXANE	TO15	--	--	--	3,800,000	16,000,000	U	--	--	--
3-METHYLHEXANE	TO15	--	--	--	3,800,000	16,000,000	U	--	--	--
2-METHYLPENTANE	TO15	--	--	--	12,000,000	42,000,000		--	--	--
3-METHYLPENTANE	TO15	--	--	--	13,000,000	47,000,000		--	--	--
NONANE	TO15	--	--	--	3,800,000	20,000,000	U	--	--	--
OCTANE	TO15	--	--	--	3,800,000	18,000,000	U	--	--	--
PENTANE	TO15	--	--	--	20,000,000	61,000,000		--	--	--
1-PENTENE	TO15	--	--	--	3,800,000	11,000,000	U	--	--	--
CIS-2-PENTENE	TO15	--	--	--	3,800,000	11,000,000	U	--	--	--
TRANS-2-PENTENE	TO15	--	--	--	3,800,000	11,000,000	U	--	--	--
PROPYLBENZENE	TO15	--	--	--	3,800,000	19,000,000	U	--	--	--
2,2,4-TRIMETHYLPENTANE	TO15	--	--	--	3,800,000	18,000,000	U	--	--	--
2,3,4-TRIMETHYLPENTANE	TO15	--	--	--	3,800,000	18,000,000	U	--	--	--
1-HEXENE	TO15	--	--	--	3,800,000	13,000,000	U	--	--	--
3-ETHYLTOLUENE	TO15	--	--	--	3,800,000	19,000,000	U	--	--	--
4-ETHYLTOLUENE	TO15	--	--	--	3,800,000	19,000,000	U	--	--	--
2-ETHYLTOLUENE	TO15	--	--	--	3,800,000	19,000,000	U	--	--	--
DECANE	TO15	--	--	--	3,800,000	22,000,000	U	--	--	--
1,2,3-TRIMETHYLBENZENE	TO15	--	--	--	3,800,000	19,000,000	U	--	--	--
1,3-DIETHYLBENZENE	TO15	--	--	--	3,800,000	21,000,000	U	--	--	--
1,4-DIETHYLBENZENE	TO15	--	--	--	3,800,000	21,000,000	U	--	--	--
UNDECANE	TO15	--	--	--	3,800,000	24,000,000	U	--	--	--
CIS-2-HEXENE	TO15	--	--	--	9,400,000	33,000,000	U	--	--	--
TRANS-2-HEXENE	TO15	--	--	--	9,400,000	33,000,000	U	--	--	--
ALPHA-PINENE	TO15	--	--	--	9,400,000	53,000,000	U	--	--	--
BETA-PINENE	TO15	--	--	--	9,400,000	53,000,000	U	--	--	--
CYCLOPENTENE	TO15	--	--	--	3,800,000	11,000,000	U	--	--	--
1-UNDECENE	TO15	--	--	--	9,400,000	60,000,000	U	--	--	--
1-DECENE	TO15	--	--	--	9,400,000	55,000,000	U	--	--	--
1-NONENE	TO15	--	--	--	3,800,000	20,000,000	U	--	--	--
1-OCTENE	TO15	--	--	--	3,800,000	18,000,000	U	--	--	--
1-HEPTENE	TO15	--	--	--	3,800,000	15,000,000	U	--	--	--
1,3-BUTADIENE	TO15	80	180	U	940,000	2,100,000	U	3.4	7.6	U
Lab Sample ID					**0407566E-08A**					
Field Sample ID		**081004VMP-24S**			**081004VMP-24M**			**081004VMP-25S**		
BENZENE (Rerun)	TO15	--	--	--	55,000	180,000		--	--	--
Lab Sample ID					**0407566C-08A**					
Field Sample ID		**081004VMP-24S**			**081004VMP-24M**			**081004VMP-25S**		
ISOBUTANE	TO-14A	--	--	--	6,400,000	15,000,000		--	--	--
BUTANE	TO-14A	--	--	--	14,000,000	34,000,000		--	--	--
TRANS-2-BUTENE	TO-14A	--	--	--	3,000	7,000	U	--	--	--
1-BUTENE	TO-14A	--	--	--	14,000	33,000		--	--	--
CIS-2-BUTENE	TO-14A	--	--	--	3,400	7,800		--	--	--
Lab Sample ID					**0407566D-08A**					
Field Sample ID		**081004VMP-24S**			**081004VMP-24M**			**081004VMP-25S**		
Compound	**Method**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**
OXYGEN	D-1946	--	--	--	2.9	--	--	--	--	--
METHANE	D-1946	--	--	--	59	590,000,000	390,000,000	--	--	--
CARBON DIOXIDE	D-1946	--	--	--	16	--	--	--	--	--

TABLE 2-8c

Summary of Soil Vapor Analytical results (Samples Collected August 10, 2004)
Hartford Community Center

Vapor Monitoring Point		**VMP-25M**		
Lab Sample ID		**0407566A-10A**		
Field Sample ID		**081004VMP-25M**		
Sample Date		**10-Aug-04**		
Sample Type		**Soil Vapor**		
Sample Container		**Grab 6-L Summa**		
Sample Description		**Hartford Community Center. Soil vapor sample from vapor monitoring point VMP 25M.**		
Compound	**Method**	**ppbv**	**ug/m^3**	**Qualifier**
BENZENE	TO15	4,300	14,000	U
ETHYL BENZENE	TO15	4,300	19,000	U
STYRENE (MONOMER)	TO15	4,300	18,000	U
TOLUENE	TO15	4,300	16,000	U
1,2,4-TRIMETHYLBENZENE	TO15	4,300	21,000	U
1,3,5-TRIMETHYLBENZENE	TO15	4,300	21,000	U
M,P-XYLENE	TO15	4,300	19,000	U
O-XYLENE	TO15	4,300	19,000	U
CYCLOHEXANE	TO15	17,000	60,000	U
CYCLOPENTANE	TO15	17,000	50,000	U
2,2-DIMETHYLBUTANE	TO15	140,000	480,000	
2,3-DIMETHYLBUTANE	TO15	480,000	1,700,000	
2,3-DIMETHYLPENTANE	TO15	470,000	1,900,000	
2,4-DIMETHYLPENTANE	TO15	300,000	1,300,000	
HEPTANE	TO15	17,000	71,000	U
HEXANE	TO15	17,000	61,000	U
ISOPRENE	TO15	17,000	48,000	U
CUMENE	TO15	17,000	85,000	U
ISOPENTANE	TO15	220,000	660,000	
METHYLCYLOHEXANE	TO15	17,000	70,000	U
METHYLCYCLOPENTANE	TO15	17,000	60,000	U
2-METHYLHEPTANE	TO15	17,000	81,000	U
3-METHYLHEPTANE	TO15	17,000	81,000	U
2-METHYLHEXANE	TO15	17,000	71,000	U
3-METHYLHEXANE	TO15	17,000	71,000	U
2-METHYLPENTANE	TO15	29,000	100,000	
3-METHYLPENTANE	TO15	160,000	590,000	
NONANE	TO15	17,000	91,000	U
OCTANE	TO15	17,000	81,000	U
PENTANE	TO15	17,000	51,000	U
1-PENTENE	TO15	17,000	50,000	U
CIS-2-PENTENE	TO15	17,000	50,000	U
TRANS-2-PENTENE	TO15	17,000	50,000	U
PROPYLBENZENE	TO15	17,000	85,000	U
2,2,4-TRIMETHYLPENTANE	TO15	460,000	2,200,000	
2,3,4-TRIMETHYLPENTANE	TO15	90,000	430,000	
1-HEXENE	TO15	17,000	60,000	U
3-ETHYLTOLUENE	TO15	17,000	85,000	U
4-ETHYLTOLUENE	TO15	17,000	85,000	U
2-ETHYLTOLUENE	TO15	17,000	85,000	U
DECANE	TO15	17,000	100,000	U
1,2,3-TRIMETHYLBENZENE	TO15	17,000	85,000	U
1,3-DIETHYLBENZENE	TO15	17,000	95,000	U
1,4-DIETHYLBENZENE	TO15	17,000	95,000	U
UNDECANE	TO15	17,000	110,000	U
CIS-2-HEXENE	TO15	43,000	150,000	U
TRANS-2-HEXENE	TO15	43,000	150,000	U
ALPHA-PINENE	TO15	43,000	240,000	U
BETA-PINENE	TO15	43,000	240,000	U
CYCLOPENTENE	TO15	17,000	48,000	U
1-UNDECENE	TO15	43,000	270,000	U
1-DECENE	TO15	43,000	250,000	U
1-NONENE	TO15	17,000	90,000	U
1-OCTENE	TO15	17,000	80,000	U
1-HEPTENE	TO15	17,000	70,000	U
1,3-BUTADIENE	TO15	4,300	9,600	U
Lab Sample ID		**0407566E-10A**		
Field Sample ID		**081004VMP-25M**		
BENZENE (Rerun)	TO15	430	1,400	
Lab Sample ID		**0407566C-10A**		
Field Sample ID		**081004VMP-25M**		
ISOBUTANE	TO-14A	170,000	420,000	
BUTANE	TO-14A	21,000	51,000	
TRANS-2-BUTENE	TO-14A	43	100	
1-BUTENE	TO-14A	34	80	U
CIS-2-BUTENE	TO-14A	34	80	U
Lab Sample ID		**0407566D-10A**		
Field Sample ID		**081004VMP-25M**		
Compound	**Method**	**%**	**ppbv**	**ug/m^3**
OXYGEN	D-1946	1.9	--	--
METHANE	D-1946	14	140,000,000	93,000,000
CARBON DIOXIDE	D-1946	20	--	--

TABLE 2-9

Summary of Sub-Slab Vapor Sample Analytical Results
Hartford Community Center

Lab Sample ID		**0408006A-01A**			**0408006A-02A**			**0408006A-03A**		
Field Sample ID		**073004CCVMP-1**			**073004CCVMP-2**			**073004CCVMP-3**		
Sample Date		**30-Jul-04**			**30-Jul-04**			**30-Jul-04**		
Sample Type		**Soil Vapor**			**Soil Vapor**			**Soil Vapor**		
Sample Container		**Grab 6-L Summa**			**Grab 6-L Summa**			**Grab 6-L Summa**		
Sample Description		**Hartford Community Center. Subslab soil vapor sample from monitoring point CCVMP-1**			**Hartford Community Center. Subslab soil vapor sample from monitoring point CCVMP-2**			**Hartford Community Center. Subslab soil vapor sample from monitoring point CCVMP-3**		
Compound	**Method**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**
BENZENE	TO15	84,000	270,000	U	170,000	540,000		230,000	750,000	
ETHYL BENZENE	TO15	84,000	370,000	U	160,000	710,000	U	160,000	710,000	U
STYRENE (MONOMER)	TO15	84,000	360,000	U	160,000	700,000	U	160,000	700,000	U
TOLUENE	TO15	84,000	320,000	U	160,000	620,000	U	160,000	620,000	U
1,2,4-TRIMETHYLBENZENE	TO15	84,000	420,000	U	160,000	800,000	U	160,000	800,000	U
1,3,5-TRIMETHYLBENZENE	TO15	84,000	420,000	U	160,000	800,000	U	160,000	800,000	U
M,P-XYLENE	TO15	84,000	370,000	U	160,000	710,000	U	160,000	710,000	U
O-XYLENE	TO15	84,000	370,000	U	160,000	710,000	U	160,000	710,000	U
CYCLOHEXANE	TO15	340,000	1,200,000	U	640,000	2,200,000	U	640,000	2,200,000	U
CYCLOPENTANE	TO15	340,000	980,000	U	640,000	1,900,000	U	640,000	1,900,000	U
2,2-DIMETHYLBUTANE	TO15	340,000	1,200,000	U	640,000	2,300,000	U	640,000	2,300,000	U
2,3-DIMETHYLBUTANE	TO15	770,000	2,700,000		1,100,000	3,900,000		1,000,000	3,700,000	
2,3-DIMETHYLPENTANE	TO15	670,000	2,800,000		820,000	3,400,000		690,000	2,900,000	
2,4-DIMETHYLPENTANE	TO15	350,000	1,400,000		640,000	2,700,000	U	640,000	2,700,000	U
HEPTANE	TO15	340,000	1,400,000	U	640,000	2,700,000	U	640,000	2,700,000	U
HEXANE	TO15	340,000	1,200,000	U	640,000	2,300,000	U	640,000	2,300,000	U
ISOPRENE	TO15	340,000	950,000	U	640,000	1,800,000	U	640,000	1,800,000	U
CUMENE	TO15	340,000	1,700,000	U	640,000	3,200,000	U	640,000	3,200,000	U
ISOPENTANE	TO15	13,000,000	39,000,000		19,000,000	56,000,000		17,000,000	52,000,000	
METHYLCYLOHEXANE	TO15	340,000	1,400,000	U	640,000	2,600,000	U	640,000	2,600,000	U
METHYLCYCLOPENTANE	TO15	340,000	1,200,000	U	1,000,000	3,600,000		950,000	3,300,000	
2-METHYLHEPTANE	TO15	340,000	1,600,000	U	640,000	3,000,000	U	640,000	3,000,000	U
3-METHYLHEPTANE	TO15	340,000	1,600,000	U	640,000	3,000,000	U	640,000	3,000,000	U
2-METHYLHEXANE	TO15	340,000	1,400,000	U	640,000	2,700,000	U	640,000	2,700,000	U
3-METHYLHEXANE	TO15	340,000	1,400,000	U	640,000	2,700,000	U	640,000	2,700,000	U
2-METHYLPENTANE	TO15	340,000	1,200,000	U	2,700,000	9,600,000		3,000,000	11,000,000	
3-METHYLPENTANE	TO15	1,600,000	5,700,000		2,400,000	8,600,000		2,300,000	8,100,000	
NONANE	TO15	340,000	1,800,000	U	640,000	3,400,000	U	640,000	3,400,000	U
OCTANE	TO15	340,000	1,600,000	U	640,000	3,000,000	U	640,000	3,000,000	U
PENTANE	TO15	340,000	1,000,000	U	4,100,000	12,000,000		4,800,000	14,000,000	
1-PENTENE	TO15	340,000	980,000	U	640,000	1,900,000	U	640,000	1,900,000	U
CIS-2-PENTENE	TO15	340,000	980,000	U	640,000	1,900,000	U	640,000	1,900,000	U
TRANS-2-PENTENE	TO15	340,000	980,000	U	640,000	1,900,000	U	640,000	1,900,000	U
PROPYLBENZENE	TO15	340,000	1,700,000	U	640,000	3,200,000	U	640,000	3,200,000	U
2,2,4-TRIMETHYLPENTANE	TO15	520,000	2,400,000		640,000	3,000,000	U	640,000	3,000,000	U
2,3,4-TRIMETHYLPENTANE	TO15	340,000	1,600,000	U	640,000	3,000,000	U	640,000	3,000,000	U
1-HEXENE	TO15	340,000	1,200,000	U	640,000	2,200,000	U	640,000	2,200,000	U
3-ETHYLTOLUENE	TO15	340,000	1,700,000	U	640,000	3,200,000	U	640,000	3,200,000	U
4-ETHYLTOLUENE	TO15	340,000	1,700,000	U	640,000	3,200,000	U	640,000	3,200,000	U
2-ETHYLTOLUENE	TO15	340,000	1,700,000	U	640,000	3,200,000	U	640,000	3,200,000	U
DECANE	TO15	340,000	2,000,000	U	640,000	3,800,000	U	640,000	3,800,000	U
1,2,3-TRIMETHYLBENZENE	TO15	340,000	1,700,000	U	640,000	3,200,000	U	640,000	3,200,000	U
1,3-DIETHYLBENZENE	TO15	340,000	1,900,000	U	640,000	3,600,000	U	640,000	3,600,000	U
1,4-DIETHYLBENZENE	TO15	340,000	1,900,000	U	640,000	3,600,000	U	640,000	3,600,000	U
UNDECANE	TO15	340,000	2,200,000	U	640,000	4,200,000	U	640,000	4,200,000	U
CIS-2-HEXENE	TO15	840,000	2,900,000	U	1,600,000	5,600,000	U	16,000,000	5,600,000	U
TRANS-2-HEXENE	TO15	840,000	2,900,000	U	1,600,000	5,600,000	U	1,600,000	5,600,000	U
ALPHA-PINENE	TO15	840,000	4,800,000	U	1,600,000	9,100,000	U	1,600,000	9,100,000	U
BETA-PINENE	TO15	840,000	4,800,000	U	1,600,000	9,100,000	U	1,600,000	9,100,000	U
CYCLOPENTENE	TO15	340,000	950,000	U	650,000	1,800,000	U	640,000	1,800,000	U
1-UNDECENE	TO15	840,000	5,400,000	U	1,600,000	10,000,000	U	1,600,000	10,000,000	U
1-DECENE	TO15	840,000	4,900,000	U	1,600,000	9,400,000	U	1,600,000	9,400,000	U
1-NONENE	TO15	340,000	1,800,000	U	640,000	3,400,000	U	640,000	3,400,000	U
1-OCTENE	TO15	340,000	1,600,000	U	64,000	3,000,000	U	640,000	3,000,000	U
1-HEPTENE	TO15	340,000	1,400,000	U	640,000	2,600,000	U	640,000	2,600,000	U
1,3-BUTADIENE	TO15	84,000	190,000	U	160,000	360,000	U	160,000	360,000	U
Lab Sample ID		**0408006B-01A**			**0408006B-02A**			**0408006B-03A**		
Field Sample ID		**073004CCVMP-1**			**073004CCVMP-2**			**073004CCVMP-3**		
ISOBUTANE	TO-14A	3,700,000	9,000,000		5,900,000	14,000,000		6,600,000	16,000,000	
BUTANE	TO-14A	23,000	55,000		14,000,000	35,000,000		16,000,000	40,000,000	
TRANS-2-BUTENE	TO-14A	960	2,200	U	15,000	36,000		45,000	100,000	
1-BUTENE	TO-14A	960	2,200	U	3,200	7,500	U	3,200	7,500	U
CIS-2-BUTENE	TO-14A	960	2,200	U	5,000	12,000		14,000	33,000	
ETHANE	TO-14A	110,000	140,000		140,000	170,000		140,000	180,000	
ETHENE	TO-14A	2,400	2,800	U	8,000	9,400	U	8,000	9,400	U
ACETYLENE	TO-14A	2,400	2,600	U	8,000	8,700	U	8,000	8,700	U
PROPANE	TO-14A	63,000	110,000		120,000	210,000		120,000	220,000	
PROPYLENE	TO-14A	2,400	4,200	U	8,000	14,000	U	8,000	14,000	U
Lab Sample ID		**0408006C-01A**			**0408006C-02A**			**0408006C-03A**		
Field Sample ID		**073004CCVMP-1**			**073004CCVMP-2**			**073004CCVMP-3**		
Compound	**Method**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**
OXYGEN	D1946	0.78			0.18			0.21		
METHANE	D1946	51	510,000,000	340,000,000	70	700,000,000	470,000,000	71	710,000,000	470,000,000
CARBON DIOXIDE	D1946	19			17			16		

TABLE 2-9

Summary of Sub-Slab Vapor Sample Analytical Results
Hartford Community Center

Lab Sample ID		**0408006A-04A**			**0408006A-05A**		
Field Sample ID		**073004CCVMP-4**			**073004CCVMP-5**		
Sample Date		**30-Jul-04**			**30-Jul-04**		
Sample Type		**Soil Vapor**			**Soil Vapor**		
Sample Container		**Grab 6-L Summa**			**Grab 6-L Summa**		
Sample Description		**Hartford Community Center. Subslab soil vapor sample from monitoring point CCVMP-4**			**Hartford Community Center. Subslab soil vapor sample from monitoring point CCVMP-5**		
Compound	**Method**	**ppbv**	**ug/m^3**	**Qualifier**	**ppbv**	**ug/m^3**	**Qualifier**
BENZENE	TO15	54,000	180,000	U	260,000	850,000	
ETHYL BENZENE	TO15	54,000	240,000	U	80,000	360,000	U
STYRENE (MONOMER)	TO15	54,000	240,000	U	80,000	350,000	U
TOLUENE	TO15	54,000	210,000	U	80,000	310,000	U
1,2,4-TRIMETHYLBENZENE	TO15	54,000	270,000	U	80,000	400,000	U
1,3,5-TRIMETHYLBENZENE	TO15	54,000	270,000	U	80,000	400,000	U
M,P-XYLENE	TO15	54,000	240,000	U	80,000	360,000	U
O-XYLENE	TO15	54,000	240,000	U	80,000	360,000	U
CYCLOHEXANE	TO15	220,000	760,000	U	320,000	1,100,000	U
CYCLOPENTANE	TO15	220,000	640,000	U	320,000	940,000	U
2,2-DIMETHYLBUTANE	TO15	220,000	780,000	U	320,000	1,200,000	U
2,3-DIMETHYLBUTANE	TO15	700,000	2,500,000		830,000	3,000,000	
2,3-DIMETHYLPENTANE	TO15	630,000	2,600,000		660,000	2,700,000	
2,4-DIMETHYLPENTANE	TO15	380,000	1,600,000		450,000	1,900,000	
HEPTANE	TO15	220,000	910,000	U	320,000	1,300,000	U
HEXANE	TO15	220,000	780,000	U	320,000	1,200,000	U
ISOPRENE	TO15	220,000	620,000	U	320,000	910,000	U
CUMENE	TO15	220,000	1,100,000	U	320,000	1,600,000	U
ISOPENTANE	TO15	11,000,000	34,000,000		13,000,000	39,000,000	
METHYLCYLOHEXANE	TO15	220,000	890,000	U	320,000	1,300,000	U
METHYLCYCLOPENTANE	TO15	400,000	1,400,000		720,000	2,500,000	
2-METHYLHEPTANE	TO15	220,000	1,000,000	U	320,000	1,500,000	U
3-METHYLHEPTANE	TO15	220,000	1,000,000	U	320,000	1,500,000	U
2-METHYLHEXANE	TO15	220,000	910,000	U	320,000	1,300,000	U
3-METHYLHEXANE	TO15	220,000	910,000	U	320,000	1,300,000	U
2-METHYLPENTANE	TO15	1,100,000	4,100,000		2,400,000	8,400,000	
3-METHYLPENTANE	TO15	1,600,000	5,700,000		1,800,000	6,600,000	
NONANE	TO15	220,000	1,200,000	U	320,000	1,700,000	U
OCTANE	TO15	220,000	1,000,000	U	320,000	1,500,000	U
PENTANE	TO15	1,400,000	4,100,000		3,600,000	11,000,000	
1-PENTENE	TO15	220,000	640,000	U	320,000	940,000	U
CIS-2-PENTENE	TO15	220,000	640,000	U	320,000	940,000	U
TRANS-2-PENTENE	TO15	220,000	640,000	U	320,000	940,000	U
PROPYLBENZENE	TO15	220,000	1,100,000	U	320,000	1,600,000	U
2,2,4-TRIMETHYLPENTANE	TO15	530,000	2,500,000		560,000	2,600,000	
2,3,4-TRIMETHYLPENTANE	TO15	220,000	1,000,000	U	320,000	1,500,000	U
1-HEXENE	TO15	220,000	760,000	U	320,000	1,100,000	U
3-ETHYLTOLUENE	TO15	220,000	1,100,000	U	320,000	1,600,000	U
4-ETHYLTOLUENE	TO15	220,000	1,100,000	U	320,000	1,600,000	U
2-ETHYLTOLUENE	TO15	220,000	1,100,000	U	320,000	1,600,000	U
DECANE	TO15	220,000	1,300,000	U	320,000	1,900,000	U
1,2,3-TRIMETHYLBENZENE	TO15	220,000	1,100,000	U	320,000	1,600,000	U
1,3-DIETHYLBENZENE	TO15	220,000	1,200,000	U	320,000	1,800,000	U
1,4-DIETHYLBENZENE	TO15	220,000	1,200,000	U	320,000	1,800,000	U
UNDECANE	TO15	220,000	1,400,000	U	320,000	2,100,000	U
CIS-2-HEXENE	TO15	540,000	1,900,000	U	800,000	2,800,000	U
TRANS-2-HEXENE	TO15	540,000	1,900,000	U	800,000	2,800,000	U
ALPHA-PINENE	TO15	540,000	3,100,000	U	800,000	4,600,000	U
BETA-PINENE	TO15	540,000	3,100,000	U	800,000	4,600,000	U
CYCLOPENTENE	TO15	220,000	620,000	U	320,000	910,000	U
1-UNDECENE	TO15	540,000	3,500,000	U	800,000	5,200,000	U
1-DECENE	TO15	540,000	3,200,000	U	800,000	4,700,000	U
1-NONENE	TO15	220,000	1,100,000	U	320,000	1,700,000	U
1-OCTENE	TO15	220,000	1,000,000	U	320,000	1,500,000	U
1-HEPTENE	TO15	220,000	890,000	U	320,000	1,300,000	U
1,3-BUTADIENE	TO15	54,000	120,000	U	80,000	180,000	U
Lab Sample ID		**0408006B-04A**			**0408006B-05A**		
Field Sample ID		**073004CCVMP-4**			**073004CCVMP-5**		
ISOBUTANE	TO-14A	3,800,000	9,100,000		6,300,000	15,000,000	
BUTANE	TO-14A	5,900,000	14,000,000		2,600	6,200	U
TRANS-2-BUTENE	TO-14A	1,600	3,800	U	67,000	160,000	
1-BUTENE	TO-14A	1,600	3,800	U	4,000	9,300	
CIS-2-BUTENE	TO-14A	1,600	3,800	U	24,000	57,000	
ETHANE	TO-14A	99,000	120,000		130,000	170,000	
ETHENE	TO-14A	4,100	4,800	U	6,400	7,500	U
ACETYLENE	TO-14A	4,100	4,400	U	6,400	7,000	U
PROPANE	TO-14A	69,000	130,000		110,000	200,000	
PROPYLENE	TO-14A	4,100	7,200	U	6,400	11,000	U
Lab Sample ID		**0408006C-04A**			**0408006C-05A**		
Field Sample ID		**073004CCVMP-4**			**073004CCVMP-5**		
Compound	**Method**	**%**	**ppbv**	**ug/m^3**	**%**	**ppbv**	**ug/m^3**
OXYGEN	D1946	0.4			0.19		
METHANE	D1946	52	520,000,000	350,000,000	66	660,000,000	440,000,000
CARBON DIOXIDE	D1946	18			17		

APPENDIX A

Historical Vapor Sampling Reports

SHELL OIL COMPANY
P. O. BOX 262
WOOD RIVER, ILLINOIS 62095

April 5, 1978

Mr. L. A. Moore
Village President
Village of Hartford
Hartford, Illinois 62048

Dear Mr. Moore:

Attached is a copy of our laboratory report giving the analyses of samples taken from the ground in the City of Hartford on March 31, 1978. As I advised you, Shell plans to install a test well in the City of Hartford to sample the water table.

Very truly yours,

A. R. Williams
Refinery Manager

Attachment

cc: State of Illinois
Office of the State Fire Marshal
Division of Fire Prevention
454 South Church Street
Virden, Illinois 62690

Attention Mr. John M. Snyder, Fire Safety Inspector

SM-37 (Rev. 9-57)

REFERENCE

SHELL OIL COMPANY

DATE APRIL 4, 1978

TO MANAGER QUALITY CONTROL
MR. J. F. COLE

FROM SENIOR CHEMIST
QUALITY CONTROL
WOOD RIVER REFINERY

SUBJECT ANALYSES OF HARTFORD GAS SAMPLES

The following results have been obtained by Gas Chromatographic analysis of three samples of gas taken in Hartford at locations indicated below. All results are calculated on an air-free basis. The concentration of the hydrocarbon in the total sample was not measured. Specialized sampling techniques would be required for such an analysis.

Hartford Gas Samples 3/31/78

	Sample Location		
Component	123 Birch St.	School Yard	School Basement Under Steps
Methane	5.1	9.0	62.7
Ethane	-	0.4	-
Propane	2.2	3.2	0.5
Propylene	-	1.3	-
Isobutane	13.0	11.0	2.6
N-Butane	34.4	27.2	13.9
Isobutene + Butene-1	1.1	2.7	0.1
Trans Butene-2	1.0	1.6	0.1
Cis Butene-2	0.4	1.0	-
Isopentane	26.5	18.1	8.3
N-Pentane	13.1	8.3	2.8
Pentene-1	0.5	0.4	-
2-Methyl Butene-1	0.7	1.1	0.1
Trans Pentene-2	0.8	0.8	0.1
Cis Pentene-2	0.4	0.3	-
2-Methyl Butene-2	0.8	1.2	0.4
Heavier	-	12.4	8.2

All results are expressed in Mole %.

Samples of the gases above were obtained by making a 30-inch deep hole in the soil and then drawing the gas into an evacuated glass sampling cylinder. A two-foot piece of stainless steel tubing with a rubber connector was attached to the cylinder and the stainless tubing lowered into the 30-inch hole to withdraw the sample. The sample taken from a crack under the basement steps of the school was drawn directly into a sampling cylinder without using any tubing.

G. L. Sanner

GLS/ga

G. L. Sanner

cc: Quality Control File

BEI 025452

ILLINOIS STATE GEOLOGICAL SURVEY
Urbana, Illinois 61801

REPORT OF GAS FLOW MEASUREMENT
May 15, 1978

FARM OR LOT - Woodrow Wilson Junior High School Gymnasium

POLICE CHIEF - Jim Anderson; telephone: 618-254-4391

CIVIL DEFENSE DIRECTOR - Phillip Hendricks; Telephone: 618-254-4908

LOCATION - NE/c SE 33-5N-9W, Madison County

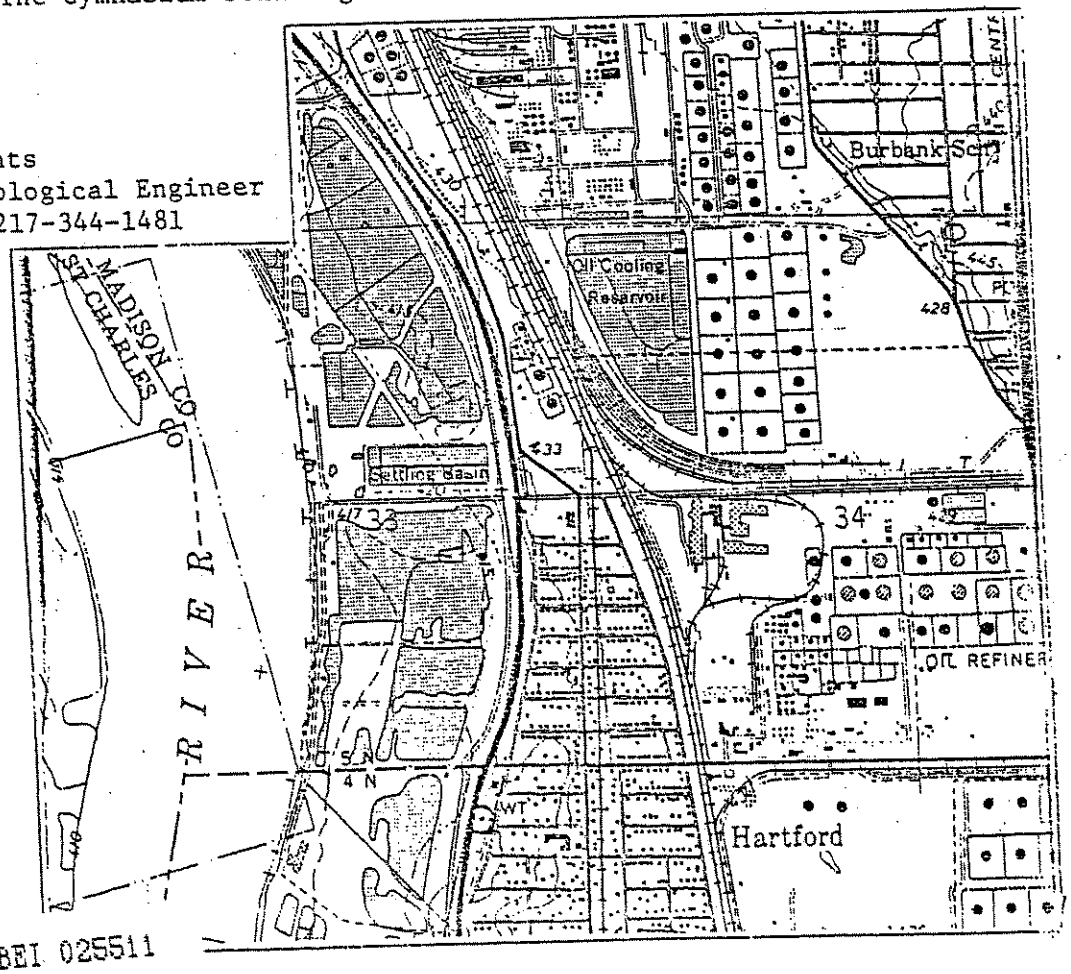
ELEVATION - 433', Wood River 7.5-minute Topographic Map

BAROMETER READING - 29.47"

DESCRIPTION OF GAS SEEP - This seep is under steel steps leading from ground level of the east front doors to Gymnasium floor about 5' lower. Steps are resting on concrete with brick side walls. One or two bricks had been removed that were in contact with bottom step and gas readings were taken at this point. Off-scale readings were indicated on explosimeter dial.

NOTE: I had checked this spot on October 22, 1969, with negative results. A strong gasoline odor was noticed at this time. Dennis Coleman of the Survey staff assisted in the testing; he also collected a gas sample in an evacuated tank. The Gymnasium building is rectangle in shape, about 66' x 100'.

By Wayne F. Meents
Associate Geological Engineer
Telephone: 217-344-1481



ILLINOIS STATE GEOLOGICAL SURVEY
NATURAL RESOURCES BLDG,
URBANA, ILL., 61801

SAMP. NO. : 60119 2 TEL. (217)-344-1481 LAB. NO.: G 3709
REQUEST NO.: 15922 COUNTY: MADISON

REPORT OF GAS ANALYSIS

LOCATION: - - -SE SEC.33 TWP. 5N RNG. 9W NE COR

SAMPLING DATE: 5/15/78 ANALYSIS DATE: 5/22/78 REQUESTED BY: WFM

OPERATOR, FARM OR LEASE:
SEEP IN WILSON SCHOOL GYMNASIUM TANK

FORMATION: GAS VOLUME:

PRODUCING ZONE DEPTH: '- ', '- ', '- ',

RESULTS OF ANALYSIS

BTU/CU.FT. @ 760 MM.& 60 DEG. F:

GROSS - - - 737

NET - - - - 667

SPECIFIC GRAVITY:

CALCULATED - .98

GAS CHROMATOGRAPHY

CO2- - - - -	13.97%
O2 - - - - -	4.09
CO - - - - -	
H2 - - - - -	
N2 - - - - -	30.95
METHANE- - -	42.43
ETHANE - - -	NONE
ETHYLENE - -	
PROPANE- - -	.22
PROPYLENE- -	
I-BUTANE - -	1.76
N-BUTANE - -	3.27
BUTYLENE - -	
I-PENTANE- -	1.99
N-PENTANE- -	1.32
HEXANE AND HIGHER - -	
HELIUM - - -	
ARGON- - - -	
TOTAL -	100.00%

METHOD: [illegible]

REMARKS

DATE REPORTED ANALYTICAL SECTION

BEI 025512

ILLINOIS STATE GEOLOGICAL SURVEY
Urbana, Illinois 61801

REPORT OF GAS FLOW MEASUREMENT
May 15, 1978

WELL - Hartford, Illinois, #3

WATER SUPERINTENDENT - Jack Marshall, 100 West Fourth Street, Hartford, Illinois 62048; Telephone: 618-254-9527

LOCATION - 500'S, 1250'W, NE/c 4-4N-9W, Madison County

ELEVATION - 430', Wood River 7.5-minute Topographic Map

DATE DRILLED - 1971

DRILLER - Layne-Western

TOTAL DEPTH - 107'

CASING - 16" at 87', screen to bottom

TYPE OF PUMP - Turbine, intake at 60'

WATER LEVEL WHEN DRILLED - 25.38' below top

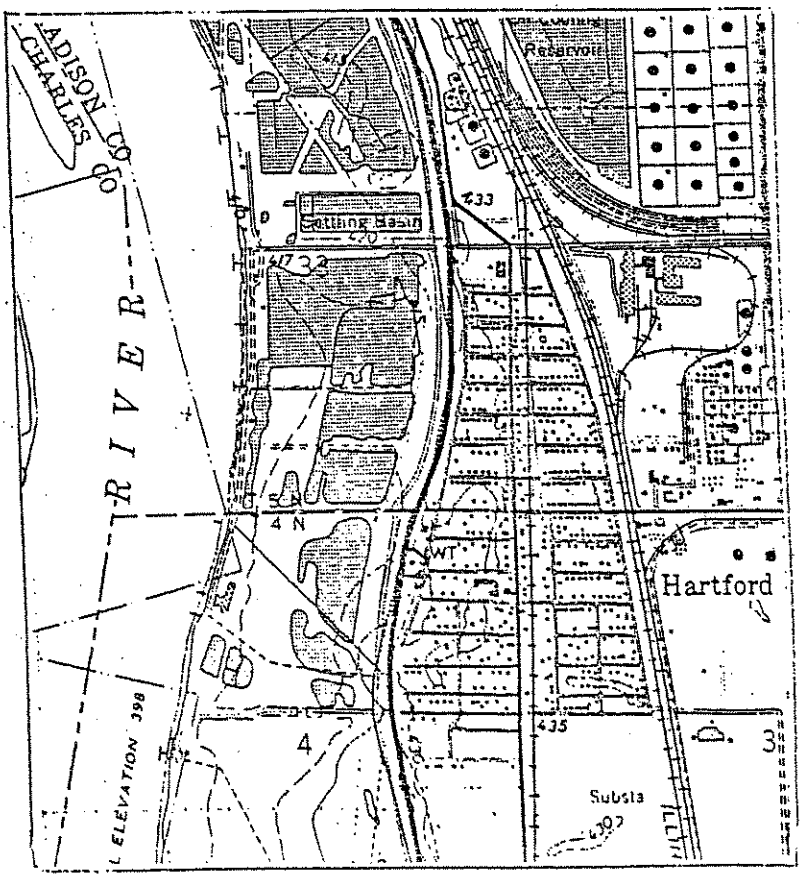
BAROMETER READING - 29.47"

BEI 025519

GAS OR AIR VOLUME - In 30 min. = 7/16" of gas or air in one quart mason jar under water with 3 gallons of water per min passing through.

NOTE: Very little gas or air compared to other wells of this type.

By Wayne F. Meents
Associate Geological Engineer
Telephone: 217-344-1481



ILLINOIS STATE GEOLOGICAL SURVEY
NATURAL RESOURCES BLDG,
URBANA, ILL., 61801

SAMP. NO. : 60119 1 TEL. (217)-344-1481 LAB. NO.: G 3708
REQUEST NO.: 15922 COUNTY: MADISON

REPORT OF GAS ANALYSIS

LOCATION: - - - SEC. 4 TWP. 4N RNG. 9W 500'S 1250'W NE COR

SAMPLING DATE: 5/15/78 ANALYSIS DATE: 5/22/78 REQUESTED BY: WFM

OPERATOR, FARM OR LEASE:
VILLAGE OF HARTFORD #3 WELL MASON JAR

FORMATION: DRIFT GAS VOLUME: 7/16" 30MINS

PRODUCING ZONE DEPTH: 107'- ', '- ', '- ',

RESULTS OF ANALYSIS

BTU/CU.FT. @ 760 MM.& 60 DEG. F:

GROSS - - - 29

NET - - - - 26

SPECIFIC GRAVITY:

CALCULATED - .97

GAS CHROMATOGRAPHY

CO2- - - - - -	1.94%
O2 - - - - - -	1.26
CO - - - - - -	
H2 - - - - - -	
N2 - - - - - -	93.89
METHANE- - -	2.91
ETHANE - - -	NONE
ETHYLENE - -	
PROPANE- - -	NONE
PROPYLENE- -	
I-BUTANE - -	NONE
N-BUTANE - -	NONE
BUTYLENE - -	
I-PENTANE- -	NONE
N-PENTANE- -	NONE
HEXANE AND HIGHER - -	NONE
HELIUM - - -	
ARGON- - - -	
TOTAL -	100.00%

METHOD: [illegible]

REMARKS [illegible]

DATE REPORTED [illegible] ANALYTICAL SECTION [illegible]

BEI 025514

Source of Gas	CH_4/C_2H_6	δC^{13} CH_4 °/₀₀	Radiocarbon Age of CH_4 Years
Landfills	>4000	-50 to -60	0
Sewage digestors	>4000	-30 to -60	0
Soil gases	>4000	-30 to -60	0 to 1000
Miss.R. sediments	>4000	-65 to -90	0 to 12,000
Drift gas	>4000	-65 to -90	10,000 to >30,000 (1)
Pipeline gas	20 to 200	-40 to -47	>30,000
Illinois coal gas (2)	20 to >4000	-60 to -70	>30,000
Illinois petroleum gas	20 to >4000	-44 to -60	>30,000
Hartford sample	>4000	-51.4	27,300 ± 1,500

(1) The maximum determinable age is dependent on the amount of sample available. Therefore, the minimum ages that would be calculated for samples that contain no detectable C^{14} have been based on a sample size similar to that of the Hartford sample.

(2) Our data on Illinois coal gas is limited. The range in isotopic compositions shown is based on analysis of a few samples from abandoned coal mines.

ILLINOIS STATE GEOLOGICAL SURVEY
Urbana, Illinois 61801

REPORT OF GAS FLOW MEASUREMENT
May 15, 1978

FARM OR LOT - Woodrow Wilson Junior High School Gymnasium

POLICE CHIEF - Jim Anderson; telephone: 618-254-4391

CIVIL DEFENSE DIRECTOR - Phillip Hendricks; Telephone: 618-254-4908

LOCATION - NE/c SE 33-5N-9W, Madison County

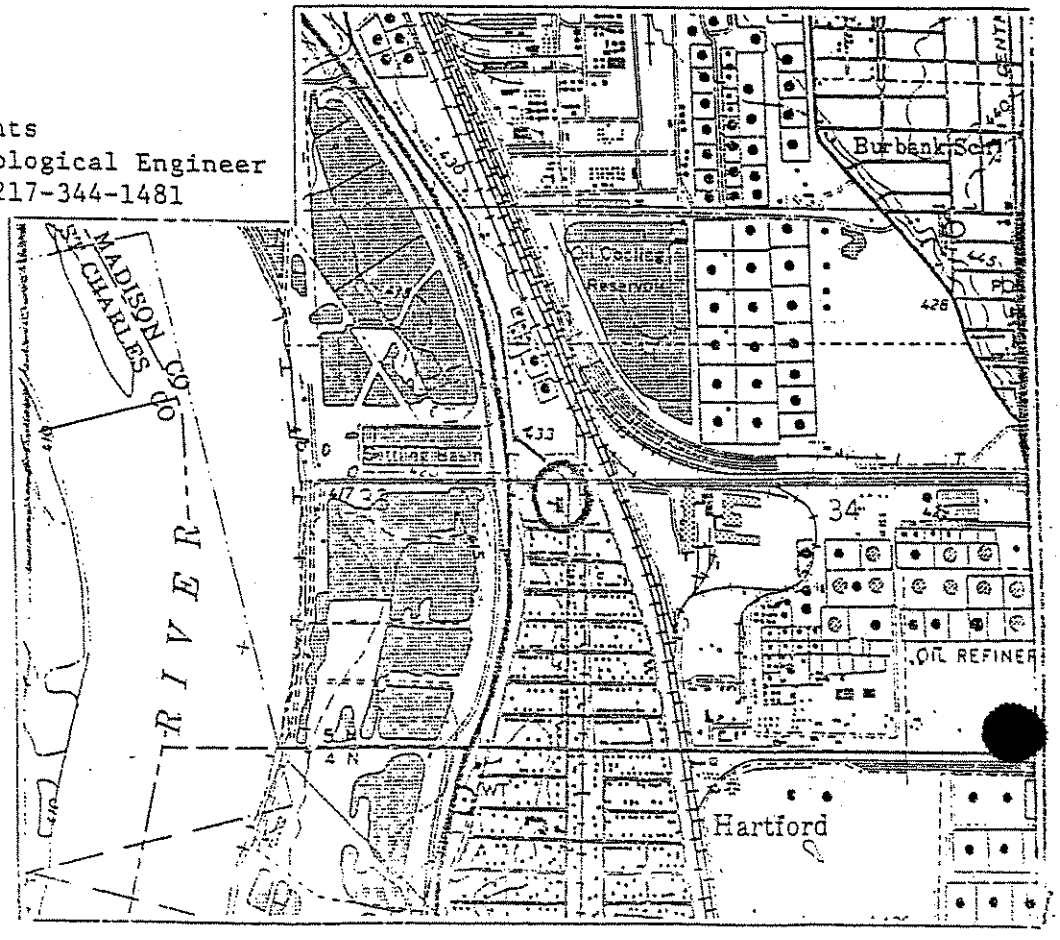
ELEVATION - 433', Wood River 7.5-minute Topographic Map

BAROMETER READING - 29.47"

DESCRIPTION OF GAS SEEP - This seep is under steel steps leading from ground level of the east front doors to Gymnasium floor about 5' lower. Steps are resting on concrete with brick side walls. One or two bricks had been removed that were in contact with bottom step and gas readings were taken at this point. Off-scale readings were indicated on explosimeter dial.

NOTE: I had checked this spot on October 22, 1969, with negative results. A strong gasoline odor was noticed ~~at~~ this time. Dennis Coleman of the Survey staff assisted in the testing; he also collected a gas sample in an evacuated tank. The Gymnasium building is rectangle in shape, about 66' x 100'.

By Wayne F. Meents
Associate Geological Engineer
Telephone: 217-344-1481



BEI 025751

STATE OF ILLINOIS
DEPARTMENT OF
REGISTRATION AND
EDUCATION
JOAN G. ANDERSON
DIRECTOR, SPRINGFIELD
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SOUTHERN ILLINOIS UNIVERSITY
DEAN JOHN C. GUYON

ILLINOIS STATE GEOLOGICAL SURVEY
NATURAL RESOURCES BUILDING, URBANA, ILLINOIS 61801 TELEPHONE 217 344-1481
Jack A. Simon, CHIEF

RECEIVED
JUL 17 1978

July 13, 1978

Dr. James A. Miller
Manager
Division of Laboratory Services
Illinois Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

Dear Scotty:

I have just discovered that there is a significant typographical error in the letter which I sent you yesterday concerning the methane problem at Hartford. Near the bottom of page three there is a sentence which reads ".... have CH_4/C_2H_6 ratios <4000 and ....". This should read ".... have CH_4/C_2H_6 ratios >4000 (greater than 4000) and ...". Please make this correction in the letter. Sorry for the error.

Sincerely,

Dennis D. Coleman
Associate Geochemist
Section of
Analytical Chemistry

cc: James Anderson
John Mathis

STATE OF ILLINOIS
DEPARTMENT OF
REGISTRATION AND
EDUCATION
JOAN G. ANDERSON
DIRECTOR, SPRINGFIELD
BOARD OF NATURAL
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DEAN WILLIAM L. EVERITT
SOUTHERN ILLINOIS UNIVERSITY
DEAN JOHN C. GUYON

ILLINOIS STATE GEOLOGICAL SURVEY
NATURAL RESOURCES BUILDING, URBANA, ILLINOIS 61801 TELEPHONE 217 344-1481

Jack A. Simon, CHIEF

July 12, 1978

Dr. James A. Miller
Manager
Division of Laboratory Services
Illinois Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

RECEIVED
JUL 14 1978

Dear Scotty:

I am enclosing the results of the analyses of the gas sample that we collected at your request at Hartford, Illinois. Mr. Wayne Meents and I visited Hartford on May 15, 1978 and were taken by Mr. James Anderson, Chief-of-Police, to the basement of the Woodrow Wilson Junior High School Gymnasium. Using an explosimeter, we were able to detect combustible gas under the steps leading from the east doors to the basement. At a point on the basement wall where some bricks were missing, off-scale readings were indicated on the explosimeter. There was also a gasoline-like odor present that was noticable by everyone present; the odor was particularly strong where the bricks were missing from the wall.

A sample of the gas seeping into the room was collected by taping a sheet of plastic over the portion of wall where the bricks were missing and inserting a piece of polyethylene tubing into the sealed-off area. The other end of the tubing was connected to a 9.6 liter steel tank that had previously been evacuated. The valve on the tank was opened slightly so that approximately 30 minutes was required to fill the tank. This was done to keep an excessive amount of air from being drawn in around the edges of the plastic.

In the laboratory the chemical composition of the gas collected was determined using a gas chromatograph and the results of this analysis are enclosed. The sample was found to contain over 40% methane and small amounts of propane, butane, and pentane. No significant amount of ethane was detected. It should be pointed out that heavy aromatic compounds that would cause a gasoline-like odor would not be detected by this analysis. The propane, butane, and pentane are probably derived from the gasoline that has been observed in the area. These components are not generally found in natural gas without at least an equal amount of ethane.

The next analysis that was performed was a determination of the ratio of the concentrations of the two stable isotopes of carbon, carbon-12 and carbon-13, in the methane. This result is expressed as the difference in parts per thousand (°/₀₀) between the C^{13}/C^{12} ratio of the sample and the C^{13}/C^{12} ratio of an internationally accepted standard. The isotopic composition (δC^{13} value) for methane from this sample was measured twice and the values were -51.3 °/₀₀ and -51.5 °/₀₀.

The third analysis that was performed was to determine the radiocarbon age of the methane. This was done by measuring the concentration of the radioactive isotope of carbon, carbon-14. Because carbon-14 is formed in the atmosphere by cosmic rays, it is present in all living things. However, carbon-14 is unstable and once a plant or animal dies, the C^{14} concentration in the remains begins to decrease exponentially with time. This radioactive decay process occurs at a very constant rate, thus the concentration of C^{14} in the remains of a plant or animal is a function of the time that has elapsed since death. It is this technique which is used to determine the age of geological and archeological artifacts up to about 50,000 years old. In older materials the carbon-14 concentration is too low to be detected by normal techniques.

The radiocarbon age of methane is dependent on the age of the organic material from which it was formed and is independent of the time when the methane was actually formed. The radiocarbon age of methane from the sample collected at Hartford was 27,300 ± 1500 years.

In order to show how these three types of analyses are used to determine the origin of natural gas, I am enclosing a table which shows the normal ranges of compositions of gases from several common sources. I have also shown the composition of the gas sample collected at Hartford. The table shows that the composition of the Hartford sample does not fit exactly into any of the categories given. However, the gas may have undergone a change in its chemical or isotopic composition, or it may be a mixture of gases from more than one source. Some of the possible sources, however, can be eliminated as significant contributors.

Methane formed in sanitary landfills and sewage disposal plants is formed primarily from modern materials. Therefore, this methane has a relatively high carbon-14 content. In fact, because the atmospheric testing of nuclear bombs has resulted in a higher than normal concentration of carbon-14 in the atmosphere, the age calculated from the carbon-14 content of modern materials gives a negative value. The very low carbon-14 concentration of the Hartford sample indicates that there is no significant contribution of methane from modern sources, i.e. landfills, sewage digestors, or the modern soil.

The low C^{14} concentration of the sample from Hartford also indicates that bacterial decomposition of organic material within the Mississippi River sediments is not a major source of the methane. The Mississippi Valley was extensively scoured out by meltwater during and just after the last glaciation. Therefore most organic materials deposited in the valley would be less than about 12,000 years old. A sample of methane formed by bacterial decomposition of river sediments that was collected at Kaskaskia Island had a radiocarbon age of 780 ± 75 years. One would expect a similarly young age for methane from the Hartford sample if it had been formed by decomposition of river sediments. Because Hartford is located on the flood plain of the Mississippi River, the presence of some methane from river sediments would be expected, however, this does not appear to be a significant source of the gas in question.

Another possibility to be considered is that the methane was formed from organic material within glacial-drift deposits approximately 27,000 years old. In the eastern and northern part of Illinois, organic deposits of approximately this age are very common, but because the last glaciation did not extend all the way to the Hartford area, significant organic deposits of that age would not be expected to have been preserved there. Additional evidence that this gas is not from glacial drift is the fact that the δC^{13} value of the methane is outside of the range normally encountered for drift gas. Under normal subsurface conditions methane is a relatively inert material and consequently the isotopic composition of methane is seldom affected by post-formational changes in the gas. The only phenomenon which frequently results in changing the isotopic composition of methane is bacterial oxidation in the near-surface, oxygenated zone. Because bacteria utilize $C^{12}H_4$ more rapidly than $C^{13}H_4$, the δC^{13} value of the residual methane becomes more positive as the oxidation proceeds. Therefore, drift gas, formed from organic material approximately 27,000 years old, that had undergone partial oxidation by bacteria could have a chemical and isotopic composition similar to that observed for the Hartford sample. For that reason, even though it is unlikely, one can not completely eliminate the possibility that this gas is glacial-drift gas.

Another possible source of the gas that should be considered is from leakage of a natural gas pipeline. The radiocarbon age and the δC^{13} value for the Hartford sample are both outside of the normal range for pipeline gas and although the isotopic composition could have been caused by a mixture of pipeline gas and some bacterial gas, this would not explain the absence of ethane (i.e. the high CH_4/C_2H_6 ratio). Pipeline gas almost invariably contains ethane and therefore a pipeline leak does not appear to be a likely source for this methane.

The two catagories shown on the table which most closely resemble the gas collected at Hartford are Illinois petroleum gases (gases which are related to the formation or occurrence of oil) and coal gases. Although the δC^{13} value of the Hartford sample does not fall within the range shown for coal gases, we have only analyzed a relatively small number of coal gases and the actual range of isotopic compositions could be much larger than that shown. However, the probability of the gas collected at Hartford being coal gas is extremely remote. Pennsylvanian rocks, which are the major coal bearing units in Illinois, end just to the East of Hartford. Therefore, there is no obvious source of coal gas at Hartford.

The last possibility to be considered is that the methane collected at Hartford is the result of a natural seep of petroleum-related gas. Although petroleum gases with high CH_4/C_2H_6 ratios are rare, occurrences of this type gas have been found in Illinois. We have analyzed samples from four different gas wells in southern Illinois that have CH_4/C_2H_6 ratios <4000 and δC^{13} values between -50 and -52 $^{\circ}/_{\circ\circ}$. Three of these wells are in St. Clair County and one is in Bond County. All of the wells are producing gas from rocks of lower Chesterian age. Our well records show that the bedrock beneath the alluvium and river deposits at Hartford is also of lower Chesterian age. Although petroleum gases do not contain carbon-14, it would only require a few percent of bacterial methane formed from modern materials (i.e. gas formed in the soil, etc.) to result in a radiocarbon age such as that determined for the sample from Hartford. In fact, one would expect to find at least some gas that was formed in the soil zone in a sample which was collected at the surface. The high CO_2 content of the Hartford sample implies that there is some bacterial gas present.

In summary, although the exact source of the methane in the gas sample collected at Hartford can not be proven, the carbon-14 analysis indicates that the gas does not contain any significant contribution from sanitary landfills, sewage disposal plants, or bacterial decomposition of organic material in the soil or river sediments. The CH_4/C_2H_6 ratio and the δC^{13} value of the sample make it improbable that the gas is the result of leakage of a nearby natural gas pipeline. The geology of the area also implies that the probability of the sample being glacial drift gas or coal gas is very unlikely. The chemical and isotopic data shown in the table for the sample collected at Hartford is most similar to that which has been observed for samples from wells east and southeast of Hartford that produce petroleum-related gas.

There may be other possible sources of the methane collected at Hartford that have not been considered here. The data and discussions presented in this letter are being submitted as a supplement to other data which has been collected by or is available to the Illinois Environmental Protection Agency for the purpose of determining the source of the methane gas observed at Hartford. If there are other possible sources of this gas, I would be happy to assist in the evaluation of their probabilities.

Sincerely yours,

Dennis D Coleman

Dennis D. Coleman
Associate Geochemist
Section of
Analytical Chemistry

cc: Mr. James Anderson
Mr. John Mathis

ILLINOIS STATE GEOLOGICAL SURVEY
NATURAL RESOURCES BLDG.
URBANA, ILL., 61801

SAMP. NO. : 60119 2 TEL. (217)-344-1481 LAB. NO.: G 370
REQUEST NO.: 15922 COUNTY: MADISON

REPORT OF GAS ANALYSIS

LOCATION: - - -SE SEC.33 TWP. 5N RNG. 9W NE COR

SAMPLING DATE: 5/15/78 ANALYSIS DATE: 5/22/78 REQUESTED BY: WFM

OPERATOR, FARM OR LEASE:
SEEP IN WILSON SCHOOL GYMNASIUM TANK

FORMATION: GAS VOLUME:

PRODUCING ZONE DEPTH: '- ', '- ', '- ',

RESULTS OF ANALYSIS

BTU/CU.FT. @ 760 MM.& 60 DEG. F:

GROSS - - - 737

NET - - - - 667

SPECIFIC GRAVITY:

CALCULATED - .98

GAS CHROMATOGRAPHY

CO2- - - - -	13.97%
O2 - - - - -	4.09
CO - - - - -	
H2 - - - - -	
N2 - - - - -	30.95
METHANE- - -	42.43
ETHANE - - -	NONE
ETHYLENE - -	
PROPANE- - -	.22
PROPYLENE- -	
I-BUTANE - -	1.76
N-BUTANE - -	3.27
BUTYLENE - -	
I-PENTANE- -	1.99
N-PENTANE- -	1.32
HEXANE AND HIGHER - -	
HELIUM - - -	
ARGON- - - -	
TOTAL -	100.00%

METHOD: GAC

REMARKS

DATE REPORTED ANALYTICAL SECTION

BEI 025750

PHASE I INVESTIGATION
GAS ODORS & FIRES
HARTFORD, ILLINOIS

July 17, 1978

General

This report summarizes the findings of a preliminary investigation of the cause or causes of gas odors and a series of fires which have occurred in homes in the Village of Hartford, Illinois.

John Mathes & Associates, Inc. was authorized to perform this investigation on April 20, 1978 by Mr. George E. Burkhart, Manager of the Clark Oil and Refining Corporation on behalf of the three refineries in the Wood River, Roxana, Hartford area, i.e., Amoco Oil Company, Shell Oil Company and the Clark Oil and Refining Corporation.

Plan & Scope of Investigation

The general plan and scope of investigation was developed on April 20, 1978 in a meeting between Messrs. George Burkhart, Al Ludwig, and Jerry Kennett of the Clark Oil and Refining Corporation and Mr. John Mathes of John Mathes and Associates, Inc.

The investigation was to consist of five parts designated as Phases I through V. The scope of each phase is defined below.

PHASE I - Obtain and study all available information pertaining to the problem; determine the possible cause or causes of the problem; determine possible solutions to the problem; determine what additional information must be obtained to correctly define the problem; and properly assess the possible solutions to the problem.

PHASE II - Obtain all additional information required to define the problem, to assess the alternative solutions to the problem and to select the most feasible alternative.

PHASE III - Design recovery system.

PHASE IV - Install recovery system and initiate other required corrective actions.

PHASE V - Begin recovery.

Phase I was begun on April 21, 1978 and was completed on May 6, 1978. The findings of the investigation were submitted in the form of a verbal report on May 6, 1978 at a meeting at the Clark Oil and Refining Company offices attended by representatives of Amoco Oil Company, Shell Oil Company and the Clark Oil and Refining Company. This report summarizes the information presented at that meeting.

Sources of Information Used

A substantial amount of information was gathered and analyzed in the course of this investigation. This information included published reports by the Illinois State Water Survey, The Illinois Geological Survey, the American Petroleum Institute and various other sources. Unpublished information in the form of data was obtained from the Illinois State Water Survey, the Illinois Environmental Protection Agency, the Clark Oil and Refining Company, the Amoco Oil Company, the Shell Oil Company, the Chief of Police of the City of Hartford, Flagg, Scheibal & Sherbut Consulting Engineers and many others. The writer expresses his sincere appreciation for the invaluable aid from these agencies, firms and individuals.

Location

The Village of Hartford is located in the southeast and southwest quarters of Sections 33 and 34 respectively of T.5N, R.9W, and in the northeast and northwest quarters of Sections 4 and 3 respectively of T.4N, R.9W. The village is located in the flood plain of the Mississippi

River and is approximately 0.4 miles east of the east bank of the river at its present location, and is approximately 2.65 miles west of the bluff which flanks the east edge of the flood plain as shown in Figure I.

Gas Reports

The earliest records of complaints about gas odors occurred in the month of May, 1966. At that time, a gas odor was reported in the Woodrow Wilson School. Characteristically when reports of gas odors were received by the Hartford Police Department, explosimeter tests were made to determine if an explosive mixture was present. Over the years, numerous explosimeter tests have been performed and generally explosive mixtures were found to be present. Sometimes, however, the tests proved negative. As a general rule, the gas was identified by smell or not at all. Occasionally, when the type of gas was in doubt, samples were obtained for identification tests. The results of the identification tests will be discussed shortly. Over the years, experience has indicated that explosive mixtures are generally present only for a relatively short period of time in a particular area and that gas odor reports ususally occur after periods of heavy rain or when the level of the Mississippi River is rising. Over the years, the gas odor problem has been confined to the north end of the village as can be seen in Figure II which indicates the locations of all reports of gas odors and house fires during the month of March, April and May 1978. Generally, when the presence of an explosive mixture in a building was confirmed, preventative measures such as plugging the point of entry of the gas and improving ventilation were implemented.

In July 1966, the Sinclair Oil Company obtained and analyzed several air samples obtained from cracks in the floor and walls of the Woodrow Wilson School building.

The results of the tests, which are shown in Table I, indicated that the principal component of the samples obtained from the crack in the floor was Methane (88.2%) although small amounts of Propane (3.4%), I-Butane (1.1%), Butylene (.50%), N-Butane (2.5%), I-Pentane (3.0%), Pentylene (.7%), and N-Pentane (.6%) were also present.

Identical tests were performed on a gas sample obtained from a vent to a natural gas line. The results of these tests, which are tabulated in Table II, indicate that the principal constituent was Propane (65.1%) with a lesser but still substantial amount of Methane (31.2%), and small amounts of N-Butane (1.1%), and I-Pentane (2.5%), and Hydrogen Sulfide (0.1%).

Because similar hydrocarbons were present in both the pipeline vent and basement floor samples, natural gas could have been a source of some of the Propane and Methane which was found beneath the floor of the school. On the other hand, since some hydrocarbons were present in the basement floor sample which are not present in natural gas, other sources of hydrocarbons must also be contributing to the gas beneath the basement floor.

Gas odors were also reported in February 1968; July 1969; April and May 1970; March and June 1973; January, February, March and October 1974; April and May 1975; and March, April and May 1978.

In February, 1968, the Clark Oil and Refining Company again performed tests on gas samples obtained from the basement of Woodrow Wilson School. A sample taken from a crack in the east wall of the basement indicated that constituents of the sample were Propane (76.8%), Methane (17.8%), and lesser amounts of N-Butane (2.4%), I-Pentane (1.6%), and Hydrogen Sulfide (1.3%). (See Table III). The results of this analysis are rather similar to the results of the tests performed on the sample obtained from the pipeline vent in May, 1966.

A sample taken from the northeast corner of the basement yielded surprisingly different results (Table IV) in that the proportion of Methane in the sample was relatively low (only 9.3%) while the proportions of I-Pentane and N-Pentane were very high, 38.0% and 47.9% respectively. Small amounts of N-Butane and H_2S were also present, but no Propane was detected. The marked difference between these samples further suggests that more than one source of hydrocarbons may exist.

In July 1969, two air samples were obtained from 16 Hawthorne Place and were analyzed by the Industrial Testing Laboratories of St. Louis. One sample came from beneath the basement floor. The second sample was obtained in the front yard approximately two feet from the front porch. The results of the tests are shown on Table V. On an air-free basis the sample from beneath the basement floor consisted of approximately equal parts of Methane, I-Butane, N-Butane, I-Pentane and N-Pentane, while the sample taken from the front yard consisted of 83.4% Methane with lesser amounts of Propane (.5%), I-Butane (2.5%), N-Butane (7.1%), I-Pentane (3.6%), and N-Pentane (2.8%). The rather great difference in the amount of Methane in the two samples is rather puzzling.

In May 1970, two vacuum samples were obtained by the Mississippi River Transmission Corporation and were subjected to Mass Spectrometer Analyses. The results of these tests, which are shown in Tables VIA and VIB, indicated that the principal non-air constituent of the samples was Methane (62.6% to 65.3%) with lesser amounts of Propane Plus (33.0% to 35.5%) and Propylene Plus (1.7% to 1.9%).

In late April and early May 1970, the Amoco Oil Company obtained and analyzed samples of gas from four locations in the village (See Table VII). In three of the four samples tested, Methane was identified. Propane was identified in two of the samples, and Butanes

and Pentanes were identified in three samples each. The results of these tests are tabulated below on an air-free basis.

	Ditch	Fire Dept. Basement	Water Meter 112 E.Cherry	Olive Street
Methane	82.5		48.0	50.0
Propane		11.5	12.0	
Propylene			12.0	
I-Butane	5.0	19.7	8.0	
N-Butane	7.5	54.1	8.0	50.0
I-Butylene		4.9		
+-Butene-2		4.9		
C-Butene-2		4.9		
I-Pentane	5.0		12.0	

In February 1973, the Amoco Oil Company performed a gas Chromatographic Analyses on a sample obtained from 207 North Olive Street. The results of the test, which are located in Table VIII, indicated that the primary non-air constituents of the sample were Methane (43.5%), and CO_2 (22.5%) respectively, with lesser amounts of N-Butane (13.6%), I-Pentane (8.2%), I-Butane (8.0%), N-Pentane (3.3%), and Propane (0.9%) respectively.

The Shell Oil Company obtained samples from a crack in the basement floor of a home at 507 N. Olive Street on March 13 and March 15, 1973. The results of Mass Spectrometer Analyses indicated that the primarily non-air constituent of the gas was Methane (45.5% to 59.3%) with lesser amounts of N-Butane (15.6 to 16.6%), I-Pentane (10.5 to 13.3%), Pentane (4.7 to 8.6%), I-Butane (7.6 to 7.7%), Butene (0.5 to 3.8%), heavier hydrocarbons (0.0 to 3.3%) and Propane (1.2 to 1.7%) respectively. The results of these tests are summarized in Table IX.

Fires

The first fire in the village attributed to gas occurred on April 23, 1970 at the home of Mrs. William Skaggs located at 113 East Cherry Street. The fire was preceded by an explosion which blew out the picture window and several concrete blocks from the foundation.

On March 13, 1973, a fire occurred in the basement of a residence at 119 West Duke Street. A red flame was observed to be burning approximately eleven (11) inches above the floor.

On April 25, 1978 a fire was observed to be burning from a drain opening in the basement floor of the home of Mr. Robert Mays on East Watkins Street.

A total of five fires occurred in the City of Hartford in the months of March, April and May of 1978. These fires occurred at 119 West Birch Street, 117 West Birch Street, 105 West Cherry Street and two fires at 118 East Duke Street.

Recent Investigations

On March 28, 1978, the Illinois Environmental Protection Agency commenced investigation of the problem. The Illinois EPA investigations included obtaining and analyzing samples of gas from the upper four feet of the soil profile at numerous locations throughout the village, obtaining and testing samples of each of the three refineries' gasoline products, making ten test borings at selected locations around the village and installing observation wells in the boreholes to permit monitoring of the ground water level, obtaining of samples of product present in the vicinity of the borings and analyzing the product, and obtaining and analyzing samples of water from public water supply wells in the area. In response to a request by the Illinois EPA, the Illinois State Water Survey conducted a water level survey

in the Hartford, Wood River and Roxana area, to determine the level of the groundwater in the vicinity of the village, and to define the nature of the piezometric surface in the Hartford, Wood River, Roxana area in general.

On March 31, the Shell Oil Company obtained three gas vacuum samples for Chromatographic Analysis. The samples were obtained from 123 Birch Street, the Woodrow Wilson School yard, and from under the steps in the basement of the school. The sample from the basement of the school was found to consist primarily of Methane (62.7%) with lesser but significant amounts of Butane (17.2%), Pentane (11.2%), Propane (0.5%) and other heavier hydrocarbons (8.2%). The samples obtained from the school yard consisted primarily of Butanes (45.8%) and Pentanes (27.9%), but also contained lesser amounts of hydrocarbons heavier than Pentane (12.4%), Propane (3.2%), and Ethane (0.4%). The sample from 123 Birch Street consisted primarily of Butanes (51.4%) and Pentanes (41.3%) with lesser amounts of Methane (5.1%) and Propane (2.2%). The results of these tests are recorded in Table X.

On April 5, 1978, the Shell Oil Company also made two test borings, hereafter referred to as Shell #1 and Shell #2, at locations selected by Mr. William D. Shepherd, Senior Staff Engineer of the Shell Oil Company, on the basis of the results of a series of explosimeter tests. The locations of the borings are also indicated on Figure III. The borings were logged by Mr. Shepherd and the logs are contained in Appendix 1. Both boreholes were converted into observation wells by inserting PVC pipe into the boreholes, the lower 20 feet of which were slotted. On April 6, samples of a petroleum product, which appeared to be pure gasoline, were withdrawn, by bailing, from Shell #2 for testing. On April 7, 1978, a larger sample was drawn from Shell #2 well. Portions of the sample were given to Clark Oil and Refining Company, Amoco Oil Company, the Illinois EPA, and to the Village. The results of a gas chromatographic determination performed by the Shell Oil Company indicated that the sample contained Tel

antiknock compound. The results of the tests are contained in Appendix 2.

The Illinois EPA test boring and observation well program was also begun on April 5, 1978. A total of ten test borings were made which will hereafter be referred to as EPA #1 through #10. Each well was subsequently made into an observation well. The locations of the test borings are indicated on Figure III. The logs of the test borings are contained in Appendix 1.

On May 2, 1978, Mr. Shepherd of Shell Oil Company made a complete set of water level and product observations in the twelve EPA and Shell observation wells. The results of these observations, which are recorded in Table XI, indicate only three of the twelve wells contained actual product; three contained water which has a product or other unidentified odor; and four contained water with no odor. Two of the wells were not tested. 5'3", 11'6", and 3'9.5" of gasoline weremeasured in wells Shell #2, EPA #4 and EPA #6 respectively.

The Illinois EPA analyzed liquid samples from each of the monitoring wells, i.e., EPA #1 through #10 and Shell #1 and #2. The results of the tests, which are recorded in Table XII, indicated that three wells, Shell #2, EPA #4 and EPA #6 contained gasoline. In addition, three wells, Shell #1, EPA #9 and EPA #10 contained traces of gasoline, and two wells, EPA #1 and EPA #2 contained hydrocarbons with a higher boiling point than gasoline. No gasoline was detected in wells EPA #3, #5, #7 and #8.

The Illinois EPA also performed lead alkyl analyses on samples from the monitoring wells where large amounts of gasoline were found, i.e., Shell #2, EPA #4, and EPA #6. The gasoline from each of the wells was found to be similar in that each sample contained a similar organic lead antiknock additive (T.E.L.). However, two samples from Shell #2 were found to be slightly different from each other.

In addition, Gas Chromatography and Mass Spectometry Analyses were performed on the vapor obtained by heating water samples obtained from EPA wells #1, #3, #5, #7, #8, #9 and #10. The results of these tests indicated that Methane was present in four of the seven samples tested, CO_2 was present in each of the six samples which were tested, and Butane was present in 5 of the 7 samples tested. Gasoline was present in 1 of 6 samples tested, and hydrocarbons with a boiling range higher than gasoline were present in 1 sample.

Finally, water samples were obtained from several public water supply wells in the vicinity of Hartford including Bethalto, Roxana and Wood River. The results of these tests are summarized in Table XIII. The tests indicated that no gasoline was present in any of the wells, however, Methane was present in Hartford Well #3 and the Wood River raw water.

Because Methane appears to play a significant part in the gas odor and fire problem in Hartford, and its source is unknown, the Illinois Environmental Protection Agency requested the Illinois Geological Survey to obtain samples of gas from the affected area and use the unique research capabilities of the agency to determine the origin of the Methane, if possible. A sample of gas was obtained on May 15, 1978 from the basement of the Woodrow Wilson School. The results of gas Chromatographic Analysis on the sample indicated that the sample consisted of 83.2% Methane, 6.4% N-Butane, 3.9% I-Pentane, 3.5% I-Butane, 2.6% N-Pentane and 0.4% Propane. The data is tabulated in Table XIV. Radio carbon tests to determine the age and thereby the origin of the Methane are presently in progress.

Topography

The topography of the flood plain is relatively flat. The ground surface slopes from elevation 445 at the east edge of the flood plain to elevation 415 at the bank of the river, a

distance of 3.3 miles. The ground surface in the immediate vicinity of the village is also very flat. The mean elevation is on the order of 430 feet. The maximum natural relief within the limits of the village is approximately 3 feet.

Geology

Soil deposits in the Hartford area, and in the flood plain in general, consist of recent alluvium which is underlain by older alluvial deposits beneath which are glacial valley train materials. Based on data developed by the Illinois State Water Survey, the total thickness of soil deposits above the bedrock is on the order of 140 feet. (See Figure IV). The majority of the deposits in the valley are recent alluvium consisting of fine-grained soils of relatively low permeability. The general sequence of stratification of the alluvium surface consists of clay at the surface which grades to silty clay to sandy silt to silty sand, to fine sand with increasing depth, although all strata are not present at all locations and the sequence of stratification varies somewhat. However, the trend of increasing grain size with depth is prevalent throughout the area. The results of the Shell Oil and Illinois EPA test borings illustrate these characteristics. The log of Clark Oil Company Well #2, which is just east of the village, indicates that the total thickness of recent alluvium is on the order of 75 feet and that glacial valley train materials are present below this depth. Since the total thickness of the soil deposits is approximately 140 feet, the thickness of coarse grained glacial valley train materials beneath the fine-grained alluvium and above the bedrock is on the order of 65 feet. The coarse deposits are the most favorable for the development of water supplies from wells. The log of Clark Oil Company Well #2 is contained in the Appendix 1.

1 GAS UNDER FLOOR AT H SCHOOL 5-5-66 575-66

HYDROGEN	.06441	
METHANE	61.01577	88.24191
ETHYLENE	0.00000	0.00000
ETHANE	0.00000	0.00000
PROPYLENE	0.00000	0.00000
PROPANE	1.76946	3.42759
I-BUTANE	.49905	1.14846
BUTYLENE	.24171	.49629
N-BUTANE	1.11265	2.46656
I-PENTANE	1.15619	2.97805
PENTYLENE	.28094	.68211
N-PENTANE	.21882	.55902
C6 PLUS		0.00000
HYDROGEN SULFIDE	0.00000	0.00000
CARBON MONOXIDE	3.96896	
CARBON DIOXIDE	18.74797	
NITROGEN	10.32015	
OXYGEN	.60385	
DELTA 14	58.09975	
DELTA 15	34.02990	
DELTA 27	-36.04563	
TOTAL PRESSURE	60.08796	

MOLE WT 25.28411 SPEC GRAV .87186

BTU/CU FT. 804.68

Called to Orville Brunger 254-0607 4PM Friday May 6

Analysis Of Gas Under Floor
Woodrow Wilson School
Hartford, Illinois

May 5, 1966 (Clark Oil Co.)

Table 1

BEI 024971

HARTFORD SCHOOL SPLE. B.E.L. 2-22-68 276-68

HYDROGEN	0.000	0.000
METHANE	0.533	17.785
ETHYLENE	0.000	0.000
ETHANE	0.000	0.000
PROPYLENE	0.000	0.000
PROPANE	1.719	76.811
I-BUTANE	0.000	0.000
BUTYLENE	0.002	0.109
N-BUTANE	0.047	2.437
I-PENTANE	0.026	1.565
PENTYLENE	0.000	0.000
N-PENTANE	0.000	0.000
C6 PLUS	0.000	0.000
HYDROGEN SULFIDE	0.057	1.290
CARBON MONOXIDE	1.254	0.000
CARBON DIOXIDE	0.000	0.000
NITROGEN	77.157	0.000
OXYGEN	19.200	0.000
DELTA 14	-0.148	
DELTA 15	-5.379	
DELTA 27	-14.677	
TOTAL PRESSURE	30.948	
MOLECULAR WEIGHT	29.026	
SPECIFIC GRAVITY	1.000	
BTU/CU.FT.	56.	

BEI 024979

Analysis Of Gas From Crack
In East Wall Of Basement
Woodrow Wilson School
Hartford, Illinois

February 22, 1968 (Clark Oil Co.

Table III

HARTFORD SCHOOL SPLE. B N.E. 2-22-68 277-68

HYDROGEN	0.000	0.000
METHANE	0.500	9.281
ETHYLENE	0.008	0.160
ETHANE	0.000	0.000
PROPYLENE	0.000	0.000
PROPANE	0.000	0.000
I-BUTANE	0.000	0.000
BUTYLENE	0.005	0.154
N-BUTANE	0.125	3.575
I-PENTANE	1.150	38.009
PENTYLENE	0.005	0.174
N-PENTANE	1.462	47.930
C6 PLUS	0.000	0.000
HYDROGEN SULFIDE	0.057	0.714
CARBON MONOXIDE	0.751	0.000
CARBON DIOXIDE	0.621	0.000
NITROGEN	76.474	0.000
OXYGEN	18.836	0.000
DELTA 14	-0.216	
DELTA 15	-0.313	
DELTA 27	0.447	
TOTAL PRESSURE	31.106	
MOLECULAR WEIGHT	30.009	
SPECIFIC GRAVITY	1.034	
BTU/CU.FT.	117.	

BEI 024974

Analysis Of Gas From North East Co
Of Basement
Woodrow Wilson School
Hartford, Illinois

February 22, 1968 (Clark Oil Co.)

DATE APRIL 4, 1978

TO MANAGER QUALITY CONTROL
MR. J. F. COLE

FROM SENIOR CHEMIST
QUALITY CONTROL
WOOD RIVER REFINERY

SUBJECT ANALYSES OF HARTFORD
GAS SAMPLES

The following results have been obtained by Gas Chromatographic analysis of three samples of gas taken in Hartford at locations indicated below. All results are calculated on an air-free basis. The concentration of the hydrocarbon in the total sample was not measured. Specialized sampling techniques would be required for such an analysis.

Hartford Gas Samples 3/31/78

Component	Sample Location: 123 Birch St.	School Yard	School Basement Under Steps
Methane	5.1	9.0	62.7
Ethane	-	0.4	-
Propane	2.2	3.2	0.5
Propylene	-	1.3	-
Isobutane	13.0	11.0	2.6
N-Butane	34.4	27.2	13.9
Isobutene + Butene-1	1.1	2.7	0.1
Trans Butene-2	1.0	1.6	0.1
Cis Butene-2	0.4	1.0	-
Isopentane	26.5	18.1	8.3
N-Pentane	13.1	8.3	2.8
Pentene-1	0.5	0.4	-
2-Methyl Butene-1	0.7	1.1	0.1
Trans Pentene-2	0.8	0.8	0.1
Cis Pentene-2	0.4	0.3	-
2-Methyl Butene-2	0.8	1.2	0.4
Heavier	-	12.4	8.2

All results are expressed in Mole %.

Samples of the gases above were obtained by making a 30-inch deep hole in the soil and then drawing the gas into an evacuated glass sampling cylinder. A two-foot piece of stainless steel tubing with a rubber connector was attached to the cylinder and the stainless tubing lowered into the 30-inch hole to withdraw the sample. The sample taken from a crack under the basement steps of the school was drawn directly into a sampling cylinder without using any tubing.

G. L. Sanner

G. L. Sanner

BEI 024981

GLS/ga

cc: Quality Control File

Gas Chromatographic Analyses
123 Birch St. & Woodrow Wilson Schoo
Hartford, Illinois

April 4, 1978 (Shell Oil Co.)

Table X

5-2-78

Bert Schneider } Shell Oil Co.
Bill Shepherd }

Chief Anderson

1:30 P.M.

5-2-78 MEASUREMENTS

Hole	Top Pipe to TD	Top Pipe to Grade	Top Pipe to Liquid	Inches Product
Shell				
1	40'1"	2'9"	34'5"	0 - Odor
2	38'1½"	2'1"	32'3½" (63")	- 7" Water
EPA				
1B	43'2"	5"	20'9½"	0 - Stale Odor
2	35'2"	4"	23'8"	0
3	No tests were taken			
4	44'7"	11"	30'11" (11'6")	2'2" Water
5	38'8"	18"	25'11"	0
6	41'4½"	24"	31'½"	(45½")
7	Tannery Property - No tests were taken			
8	43'2"	2'6"	31'11½"	No Odor
9	41'2"	12"	31'3½"	0
10	43'0"	0	30'3½"	0

BEI 024982

Clark Sewer Leak in Watkins St.

Clark Line leak Olive and Rand Streets (again) (Sampled)

Clark Line leaks Noon 5-2-78 20' South of Elm Street on Olive.

Water Level And Product Observations
In Monitoring Wells
Shell Oil Co.
Hartford, Illinois

ILLINOIS STATE GEOLOGICAL SURVEY
NATURAL RESOURCES BLDG.
URBANA, ILL., 61801

SAMP. NO. : 60119 2 TEL. (217)-344-1481 LAB. NO.: G 3709
REQUEST NO.: 15922 COUNTY: MADISON

REPORT OF GAS ANALYSIS

LOCATION: - - -SE SEC.33 TWP. 5N RNG. 9W NE COR

SAMPLING DATE: 5/15/78 ANALYSIS DATE: 5/22/78 REQUESTED BY: WFM

OPERATOR, FARM OR LEASE:
SEEP IN WILSON SCHOOL GYMNASIUM TANK

FORMATION: GAS VOLUME:

PRODUCING ZONE DEPTH: '- ', '- ', '- ', '- ',

RESULTS OF ANALYSIS

BTU/CU.FT. @ 760 MM.& 60 DEG. F:

GROSS - - - 737

NET - - - - 667

SPECIFIC GRAVITY:

CALCULATED - .98

GAS CHROMATOGRAPHY

CO2- - - - -	13.97%
O2 - - - - -	4.09
CO - - - - -	
H2 - - - - -	
N2 - - - - - -	30.95
METHANE- - -	42.43
ETHANE - - -	NONE
ETHYLENE - -	
PROPANE- - -	.22
PROPYLENE- -	
I-BUTANE - -	1.76
N-BUTANE - -	3.27
BUTYLENE - -	
I-PENTANE- -	1.99
N-PENTANE- -	1.32
HEXANE AND HIGHER - -	
HELIUM - - -	
ARGON- - - -	
TOTAL -	100.00%

METHOD: [illegible]

REMARKS

DATE REPORTED ANALYTICAL SECTION

BEI 024985

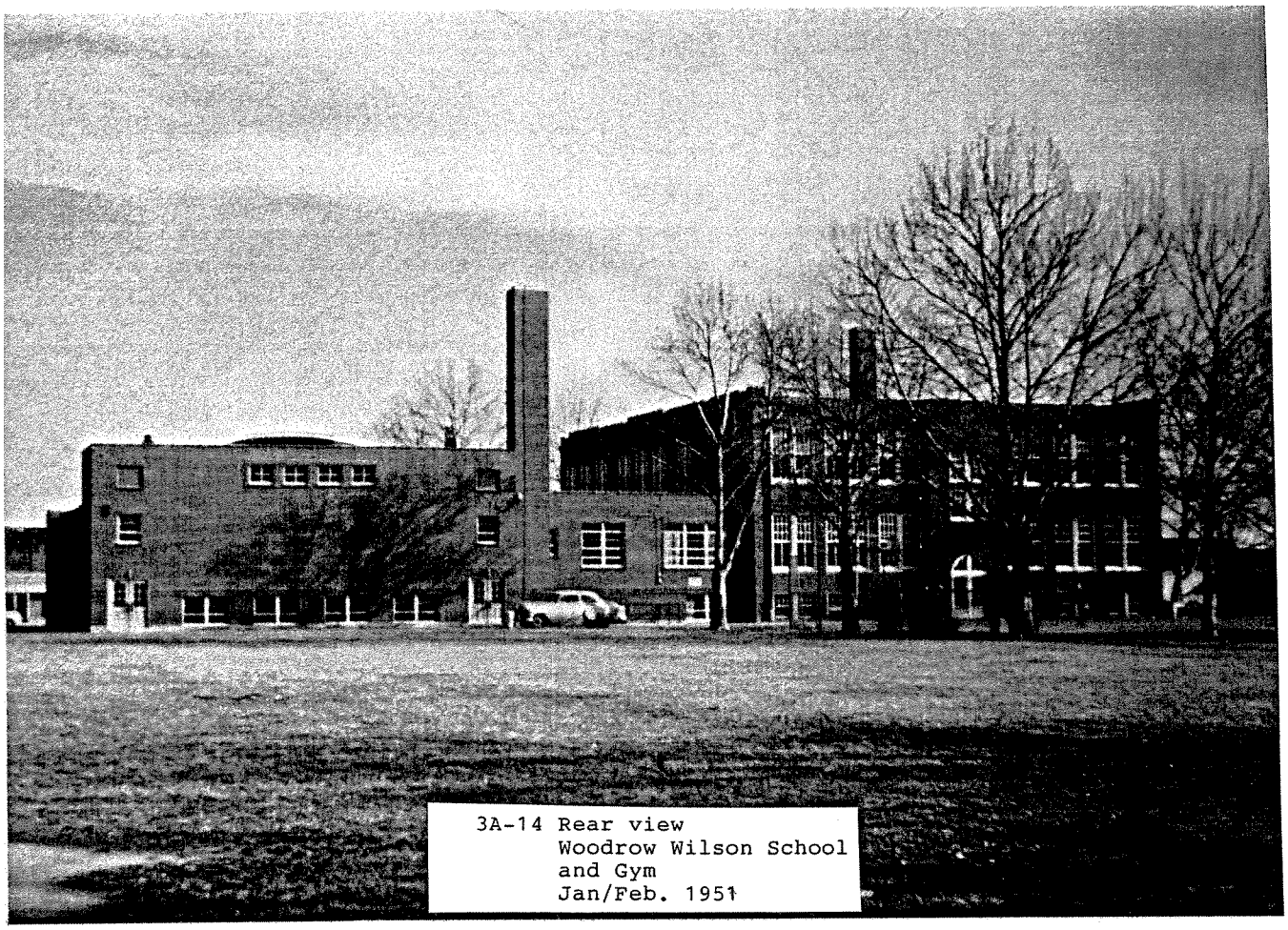
Gas Chromatographic Analysis
Woodrow Wilson School
Hartford, Illinois

May 15, 1978 (Illinois Geological Survey)

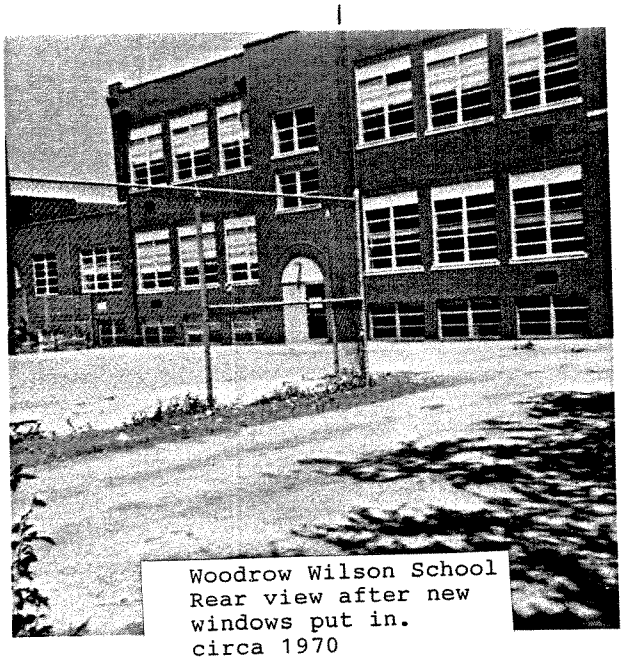
Table XIV

APPENDIX B

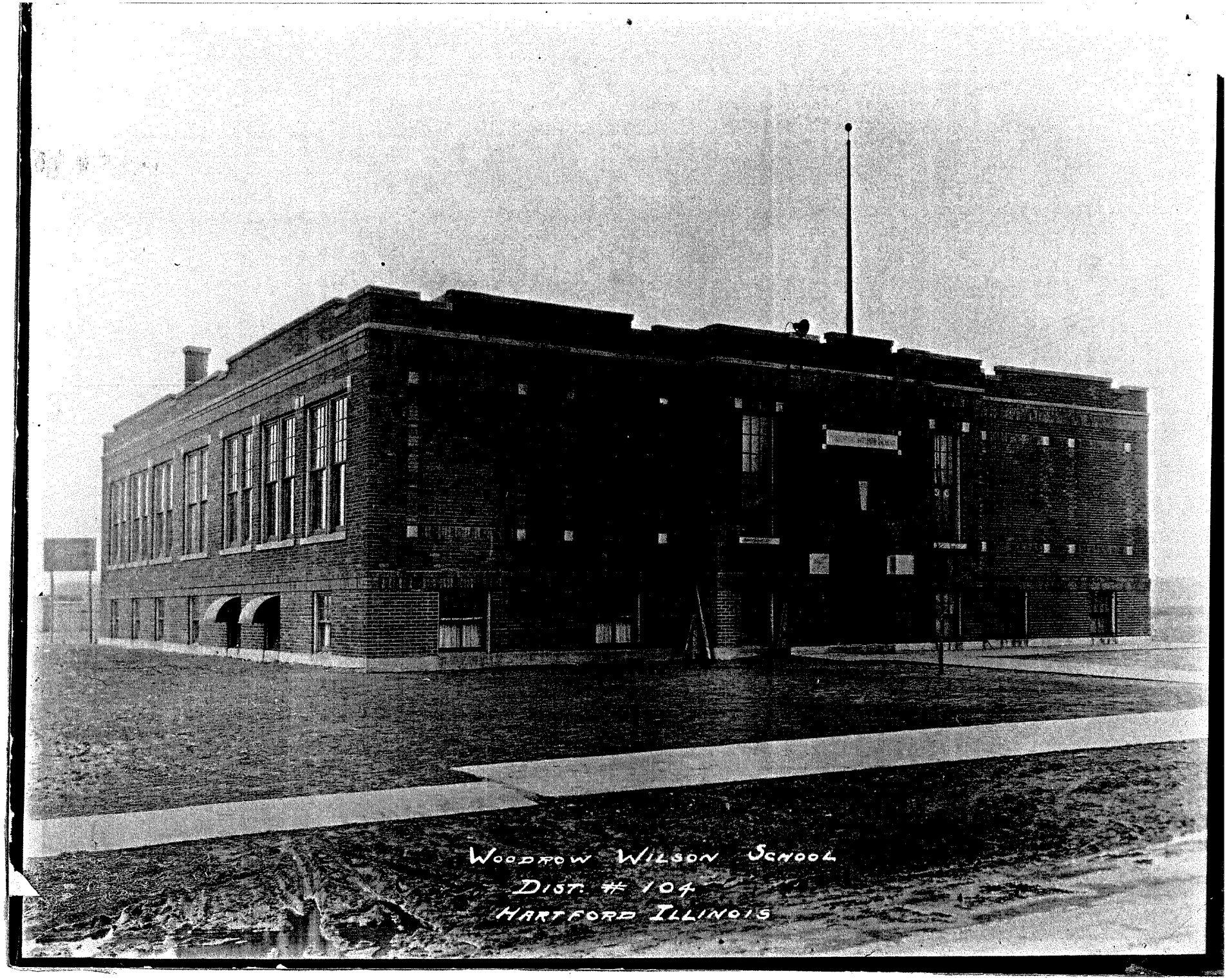
Historical Photographs



3A-14 Rear view
Woodrow Wilson School
and Gym
Jan/Feb. 1951



Woodrow Wilson School
Rear view after new
windows put in.
circa 1970


WOODROW WILSON SCHOOL
DIST. # 104
HARTFORD ILLINOIS

WOODROW WILSON SCHOOL/GYM

CIRCA 1955

APPENDIX C

CPT/ROST™ Data from Clayton

FUGRO GEOSCIENCES, INC.

13049 East Florence Avenue
Santa Fe Springs, CA 90670
Phone : 562-903-0055
Fax: 562-903-9005

March 8, 2004
Report Number: 0303-0921

Clayton Group Services, Inc.
3140 Finley Road
Downers Grove, IL 60515

Attn.: Mr. Ken Comire

DATA REPORT
PIEZOCONE PENETRATION AND
RAPID OPTICAL SCREENING TOOL TESTING
HARTFORD, ILLINOIS
WORK AUTHORIZATION # 15-03095.14-SWA-002

Dear Mr. Comire:

Fugro Geosciences (Fugro) is pleased to present this data report for Cone Penetration (CPT) and Rapid Optical Screening Tool (ROST™) testing at the above-referenced site. CPT/ROST™ provided continuous characterization of stratigraphy and petroleum hydrocarbon distribution at the testing locations. A description of the CPT and ROST™ technologies and a discussion of general ROST™ data interpretation follows. CPT and ROST™ logs and electronic data CD are included as attachments.

Cone Penetration Testing

CPT was performed simultaneously with each ROST™ sounding and yielded real-time stratigraphic data. CPT is a proven method for rapidly evaluating the physical characteristics of unconsolidated soils. It is based on the resistance to penetration of an electronically-instrumented cone which is continuously advanced into the subsurface. In accordance with ASTM Standard D5778-95, the cone was advanced at a rate of two centimeters per second with the driving force provided by hydraulic rams.

The CPT cone used at this site had an apex angle of 60 degrees with a base area of 15 square centimeters (cm^2), and friction sleeve with a surface area of 200 cm^2. The standard geotechnical sensors within the cone measure tip resistance and sleeve friction in tons per square foot (TSF). The combined data from the tip resistance and sleeve friction form the basis of the soil classification (e.g., sand, silt, clay, etc.).

Soil stratigraphy was identified using Campanella and Robertson's Simplified Soil Behavior Chart. Please note that because of the empirical nature of the soil behavior chart, the soil identification should be verified locally.

ROST™ Testing

Fugro Geosciences' ROST™ Laser-Induced Fluorescence system was used for this investigation to screen soils for petroleum hydrocarbon materials containing aromatic hydrocarbon constituents. The system consists of a tunable laser mounted in the CPT truck that is connected to a down-hole sensor. The down-hole sensor consists of a small diameter sapphire window mounted flush with the side of the cone penetrometer probe.

The laser and associated equipment transmit 50 pulses of light per second to the sensor through a fiber optic cable. The wavelength of the pulsed excitation light is tunable and can be set to wavelengths of 266 nanometers (nm) or to wavelengths between 280 and 300 nm. An excitation wavelength of 290 nm was used for each test during this project.

The laser light passes through the sapphire window and is absorbed by aromatic hydrocarbon molecules in contact with the window, as the probe is advanced. This addition of energy (photons) to the aromatic hydrocarbons causes them to fluoresce. A portion of the fluorescence emitted from any encountered aromatic constituents is returned through the sapphire window and conveyed by a second fiber optic cable to a detection system within the CPT rig. The emission data resulting from the pulsed laser light is averaged into one reading per one second interval (approximately one reading per 2 cm vertical interval) and is recorded continuously. ROST™ may be operated in single or multi-wavelength mode, depending on project objectives. For this project, ROST™ was operated in multi-wavelength mode (MWL).

Multi-Wavelength Mode (MWL). In MWL mode, several characteristics of the emitted fluorescence are measured and recorded simultaneously at four (4) specific wavelengths (340, 390, 440, and 490 nm). These four wavelengths represent the spectrum of fluorescence typically produced by aromatic hydrocarbons ranging from light fuels through heavy contaminants such as coal tar and creosote. The recorded data is then presented as a color graph of fluorescence intensity (the combined fluorescence of all four monitored wavelengths) versus depth (FVD).

On the FVD graph, each of the four monitored wavelengths is assigned a color. These colors are combined based on the proportional fluorescence intensity of each of the individual wavelengths. The combined color is then used on the FVD graph. Changes in color on the FVD graph typically represent changes in product type. Similarly, like colors on the FVD graph typically represent the same product, regardless of the total fluorescence intensity. Changes in the total fluorescence intensity typically indicate changes in contaminant concentration, with higher fluorescence intensities representing proportionally higher concentrations when compared to lower fluorescence intensities.

In addition to the FVD graph, depth specific waveforms are presented at four (4) selected depths throughout the sounding. These waveform graphs are presented to the right of the FVD graph on each plot. In the waveform graphs, the fluorescence intensity and duration of fluorescence of each of the monitored wavelengths is represented by an individual peak, starting at 340 nm and increasing in 50 nm wavelengths as you move to the right. The intensity of each wavelength is represented by the height of the peaks, and the duration of fluorescence is represented by the width of each peak. For general interpretation purposes, lighter aromatic hydrocarbon molecules will emit fluorescence at the shorter wavelengths, and heavier, longer chained hydrocarbons will emit fluorescence at the longer wavelengths. The presented waveforms can be compared to waveforms typical of common hydrocarbon products to determine the likely product type that has been encountered. Please note that the waveforms are available at every two centimeter interval throughout the entire sounding. Additional waveforms can be generated at any time during or after testing is complete.

Reference Solution. The fluorescence intensity of a reference solution placed on the sapphire window was measured immediately prior to conducting each test. This reference solution measurement serves two purposes. First, as a quality control check, the solution is used to ensure that the performance of the system is within specifications. Second, it allows for normalization of the data from different test locations for variation in laser power, operating conditions, and monitored emission wavelength. The reference solution used for this project was the standard M1 reference, which is a proprietary PHC

containing solution. M1 provides consistent fluorescence response across the portion of the spectrum analyzed by ROST and therefore, allows the fluorescence data collected to be consistently normalized to intensities recorded as a percentage of M1.

LIMITATIONS OF ENVIRONMENTAL SUBSURFACE WORK

Fugro Geosciences' report is based upon our observations made during field work, the information provided to Fugro and the results of the ROST/CPT survey. Given the inherent limitation of environmental subsurface work, Fugro cannot guarantee that the site is free of hazardous or potentially hazardous materials or conditions or that latent or undiscovered conditions will not become evident in the future. Fugro's report was prepared in accordance with our proposal and the General Conditions agreed to between Fugro and Client and no warranties, representations, or certifications are made.

Fugro Geosciences, Inc. appreciates the opportunity to be of service to your organization. Please do not hesitate to contact us if we can be of further assistance. We look forward to working with you in the future.

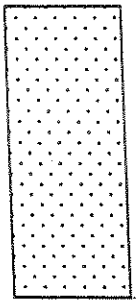
Sincerely,
FUGRO GEOSCIENCES, INC.

Recep Yilmaz
President

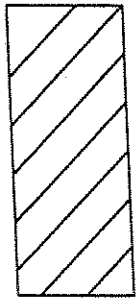
RY/mdt

Enclosure: - 1 CD

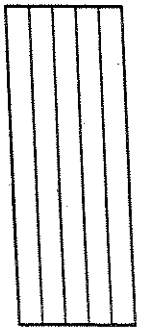
KEY TO SOIL BEHAVIOR TYPE



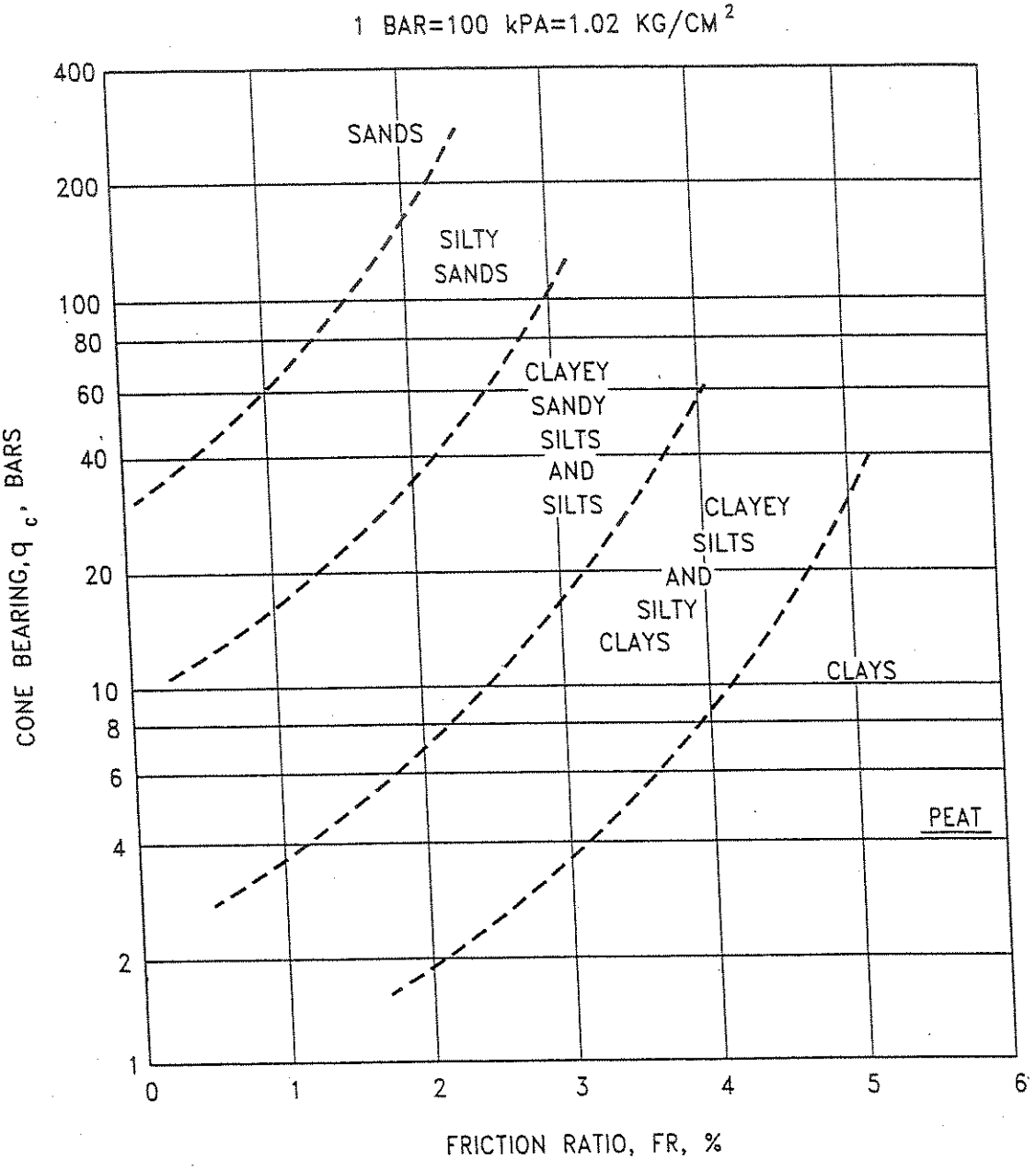
SAND AND SANDY SOIL



CLAY AND CLAYEY SOIL

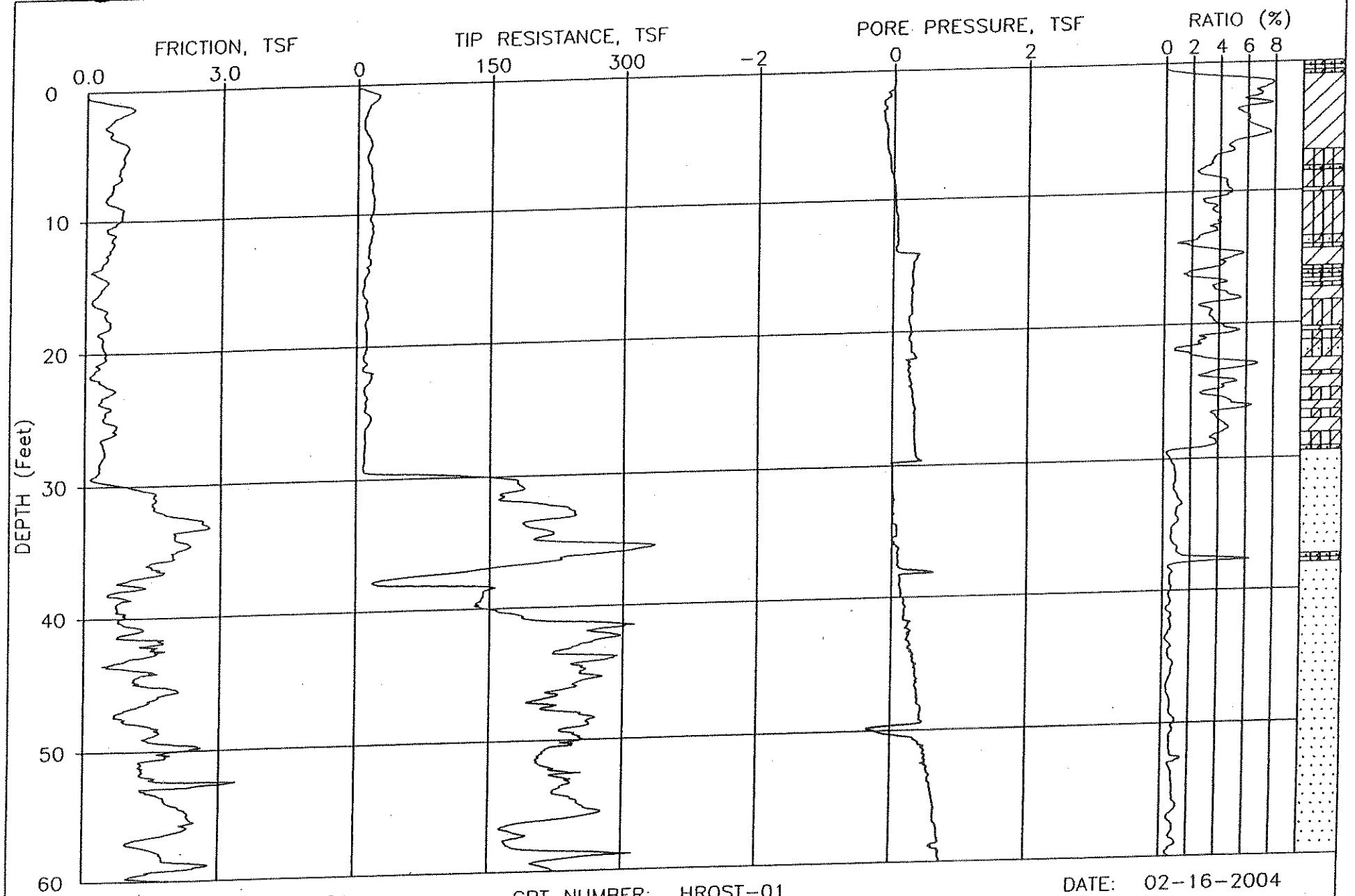


SILT AND SILTY SOIL



MODIFIED CAMPANELLA AND ROBERTSON SOIL BEHAVIOR CHART (1983)

CPT LOGS



JOB NUMBER: 0303-0921

ELEVATION: 0.00

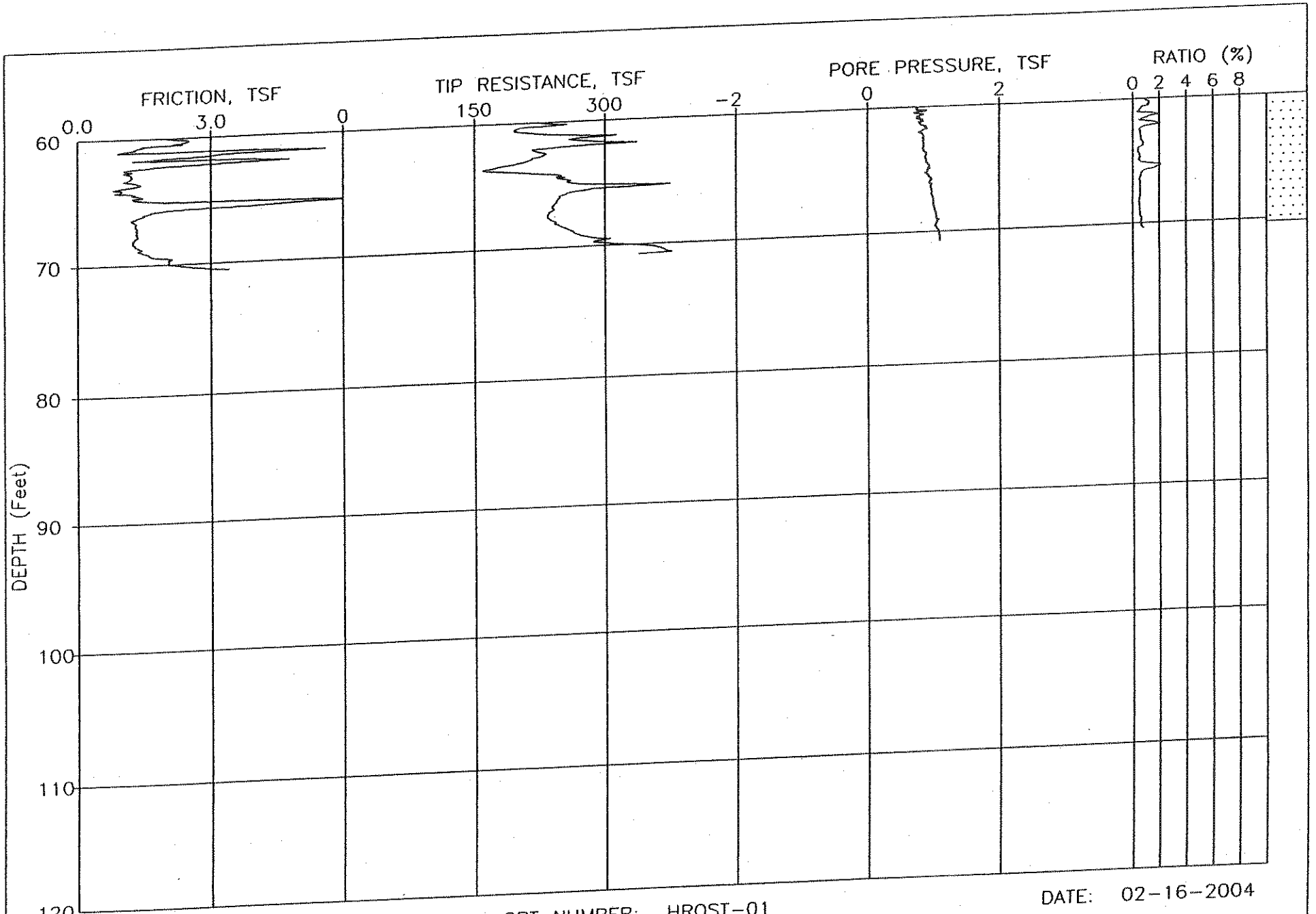
CPT NUMBER: HROST-01

CONE NUMBER: F7.5CKEW1170

DATE: 02-16-2004

PLATE: 1 OF 2

FUGRO GEOSCIENCES,INC



JOB NUMBER: 0303-0921

ELEVATION: 0.00

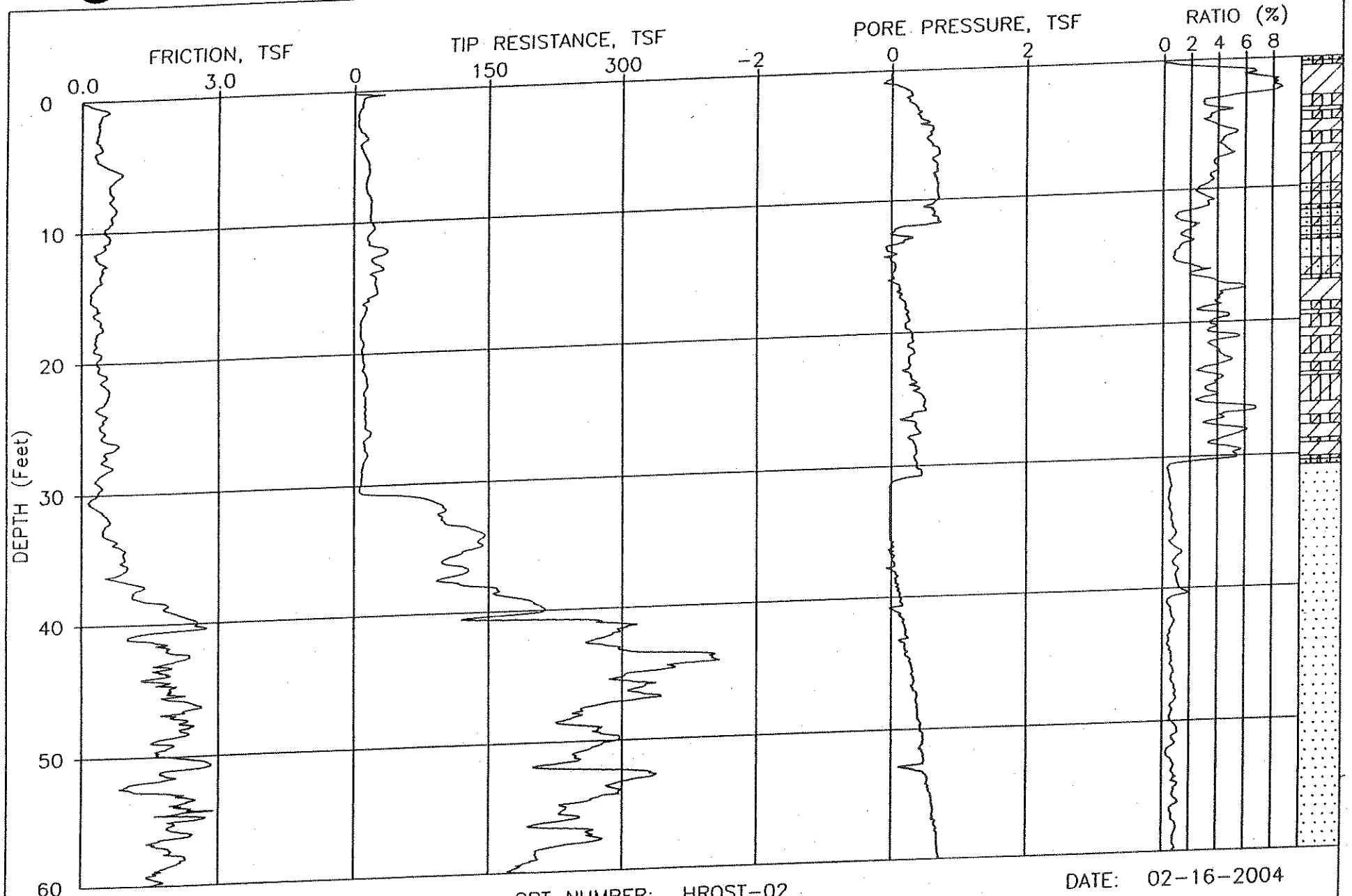
CPT NUMBER: HROST-01

CONE NUMBER: F7.5CKEW1170

DATE: 02-16-2004

PLATE: 2 OF 2

FUGRO GEOSCIENCES,INC



JOB NUMBER: 0303-0921

ELEVATION: 0.00

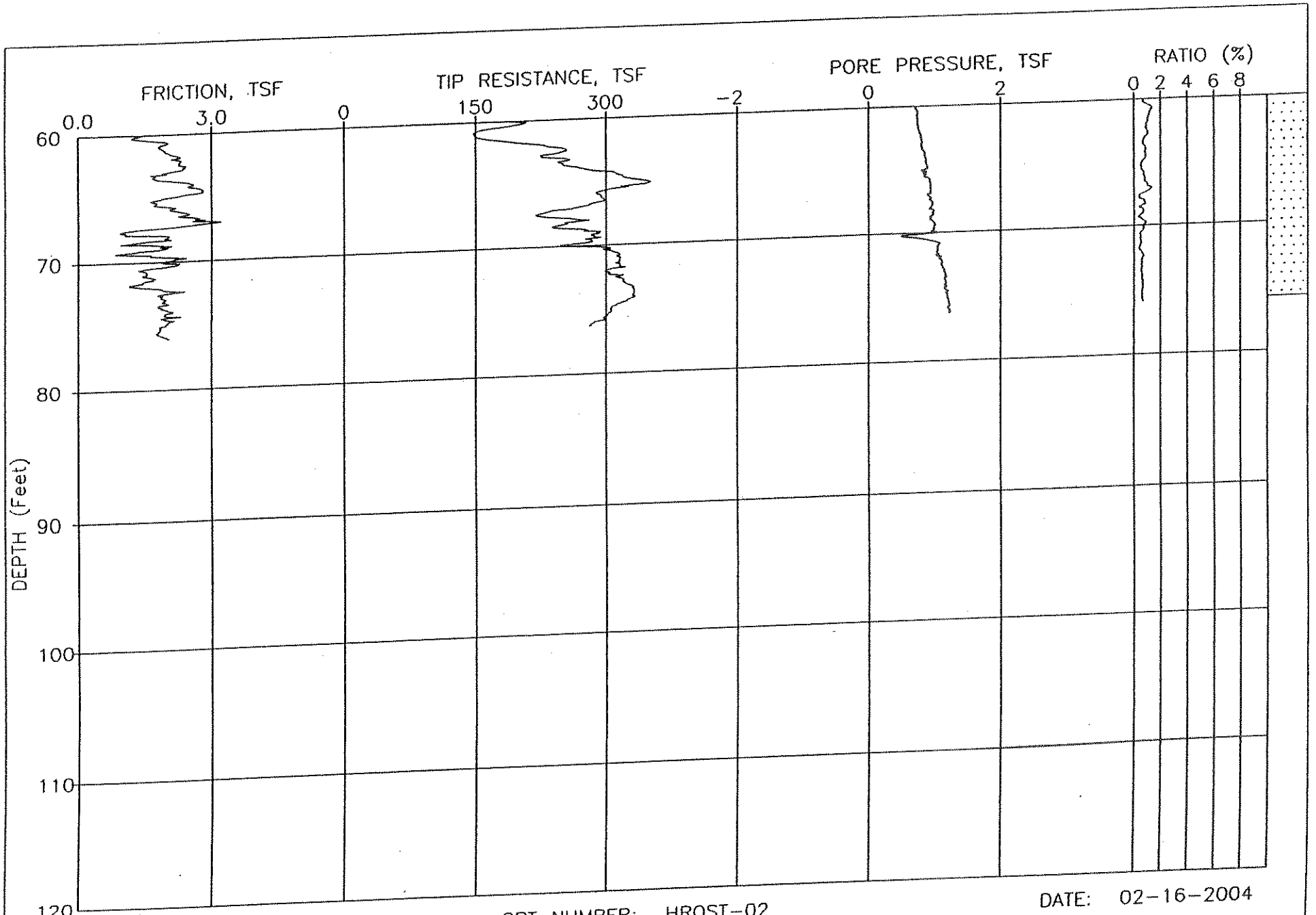
CPT NUMBER: HROST-02

CONE NUMBER: F7.5CKEW1170

DATE: 02-16-2004

PLATE: 1 OF 2

FUGRO GEOSCIENCES,INC



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CONE NUMBER: F7.5CKEW1170

DATE: 02-16-2004

PLATE: 2 OF 2

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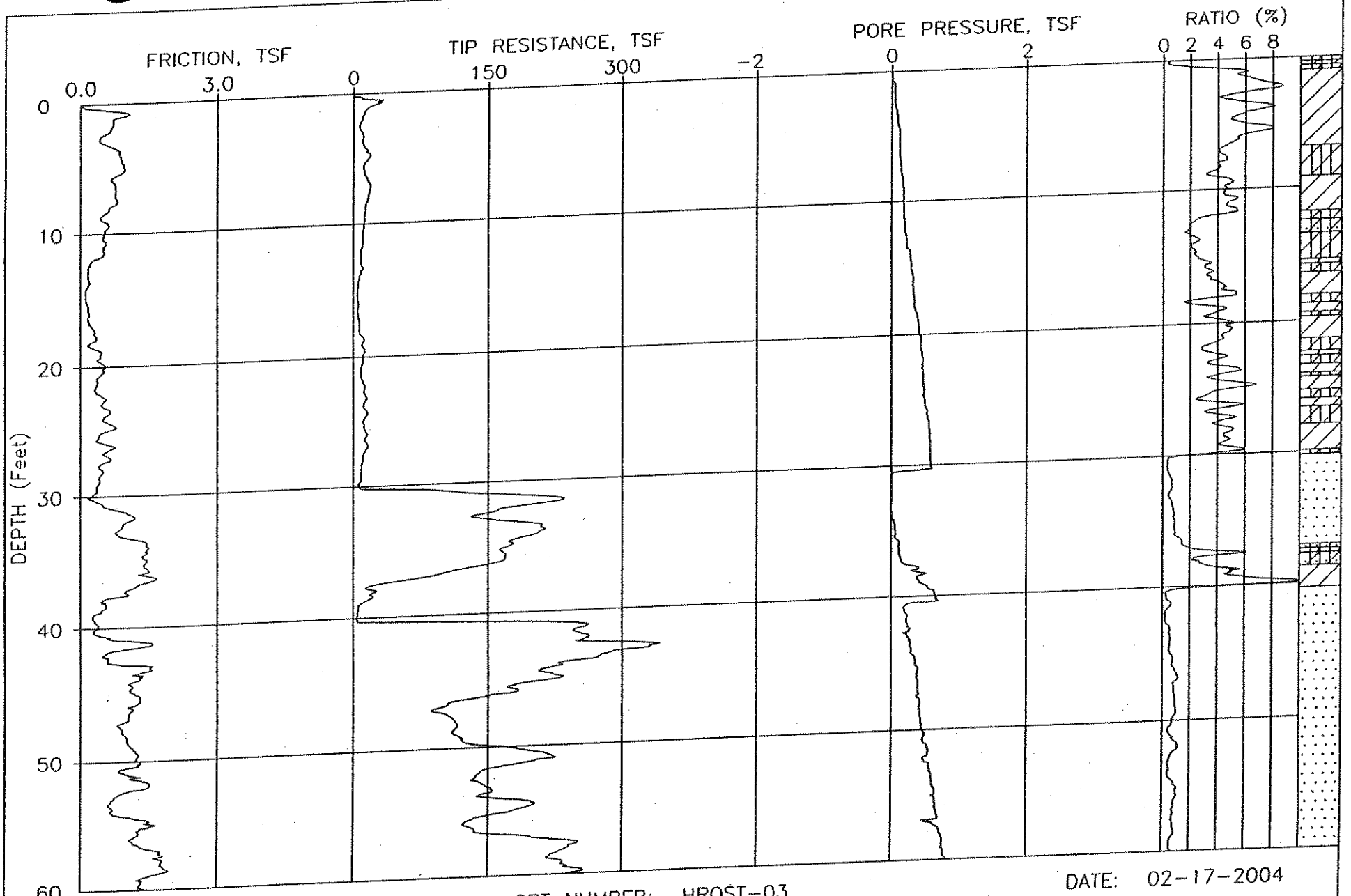

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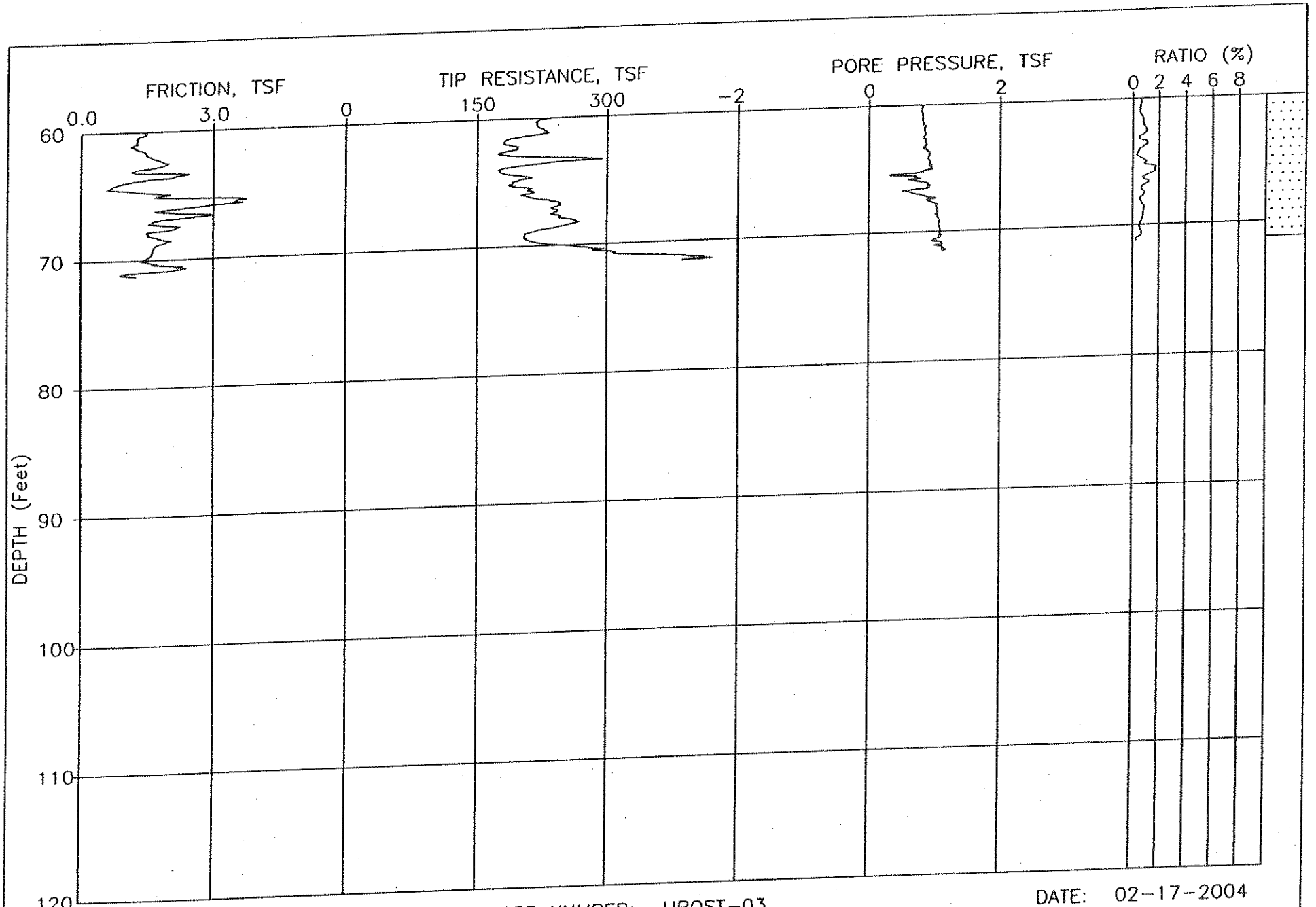
CONE NUMBER: F7.5CKEW1170

DATE: 02-17-2004

PLATE: 1 OF 2

FUGRO GEOSCIENCES,INC



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CONE NUMBER: F7.5CKEW1170

DATE: 02-17-2004

PLATE: 2 OF 2

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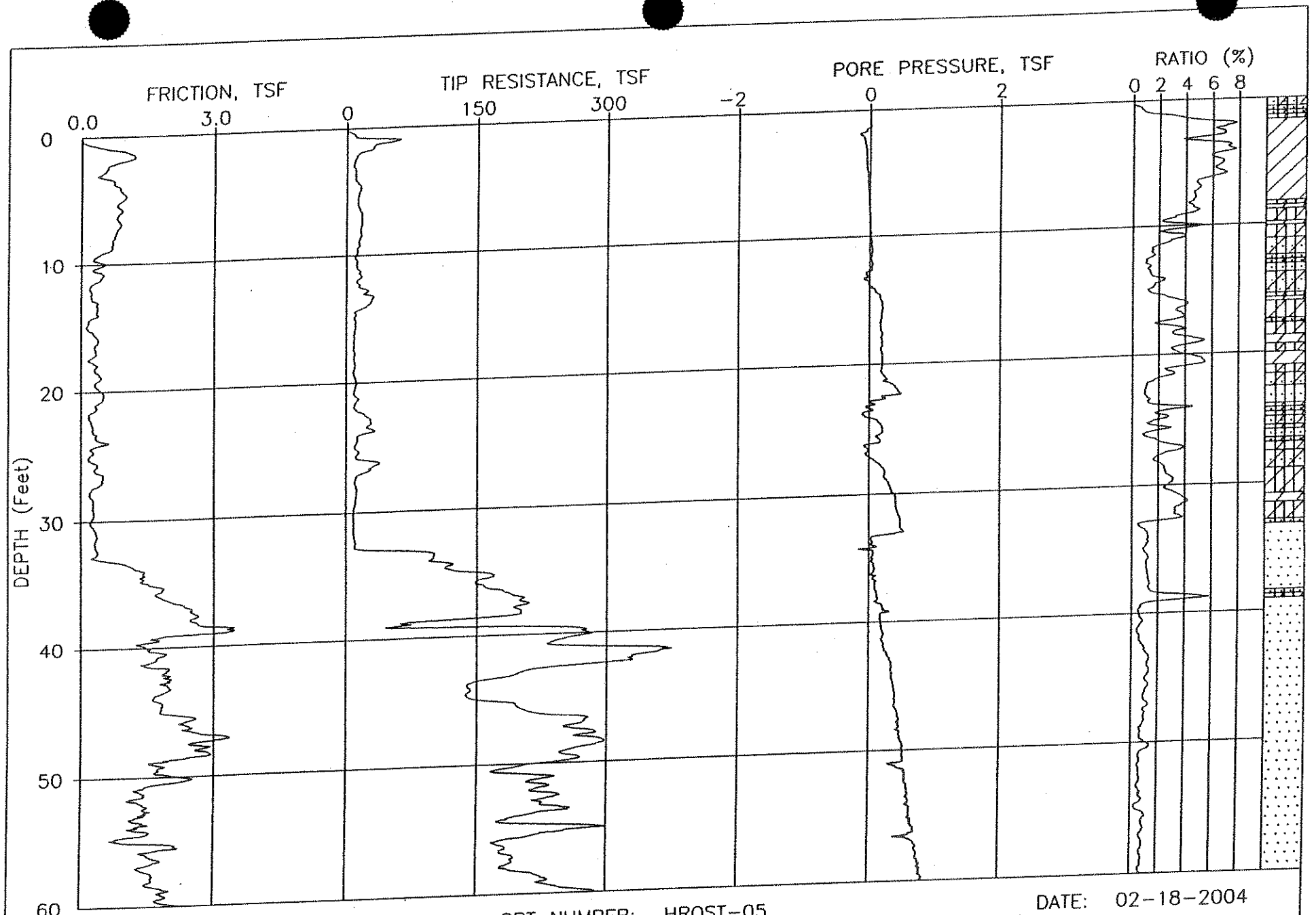

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ELEVATION: 0.00

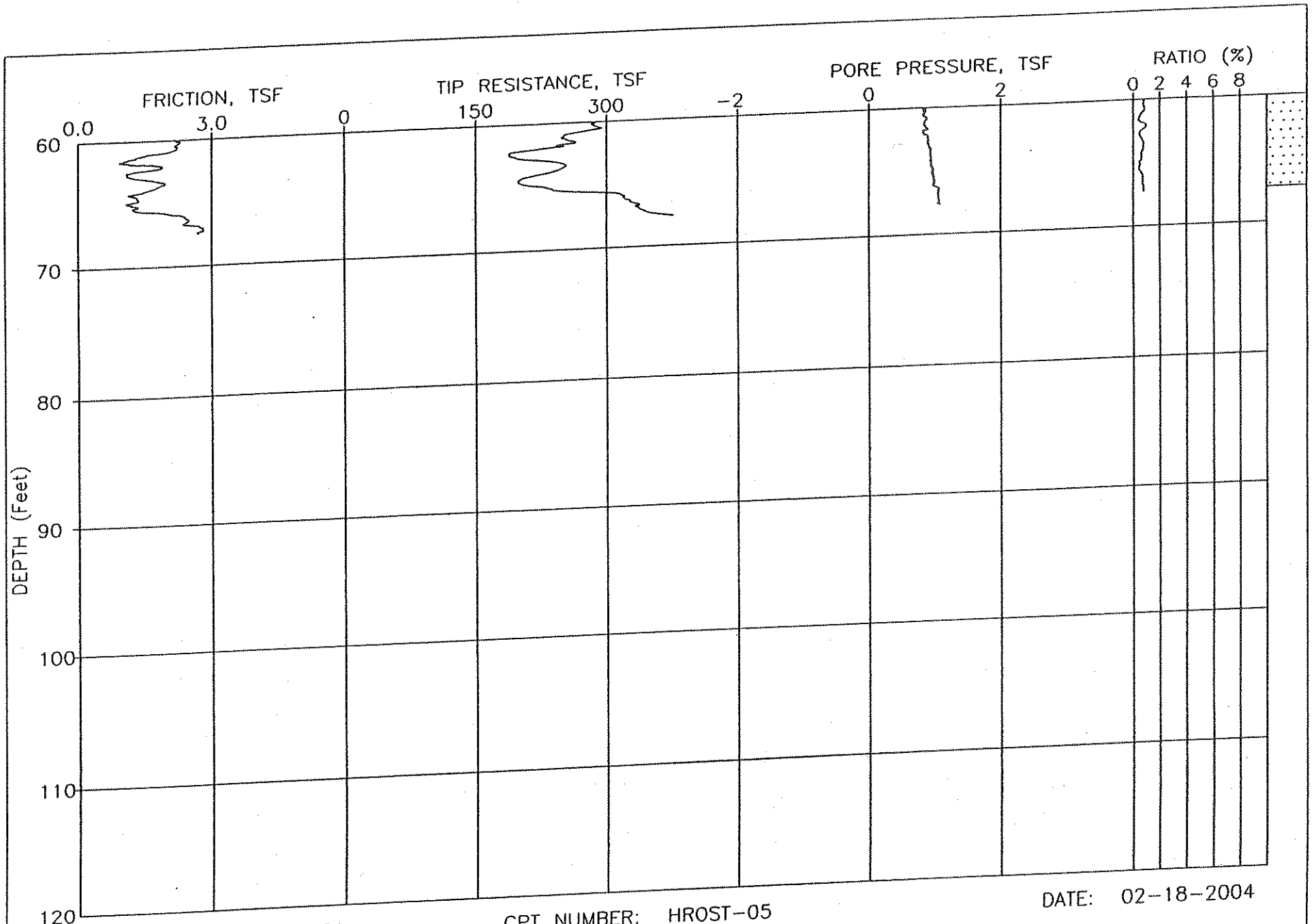
CPT NUMBER: HROST-05

CONE NUMBER: F7.5CKEW1170

DATE: 02-18-2004

PLATE: 1 OF 2

FUGRO GEOSCIENCES,INC



JOB NUMBER: 0303-0921

ELEVATION: 0.00

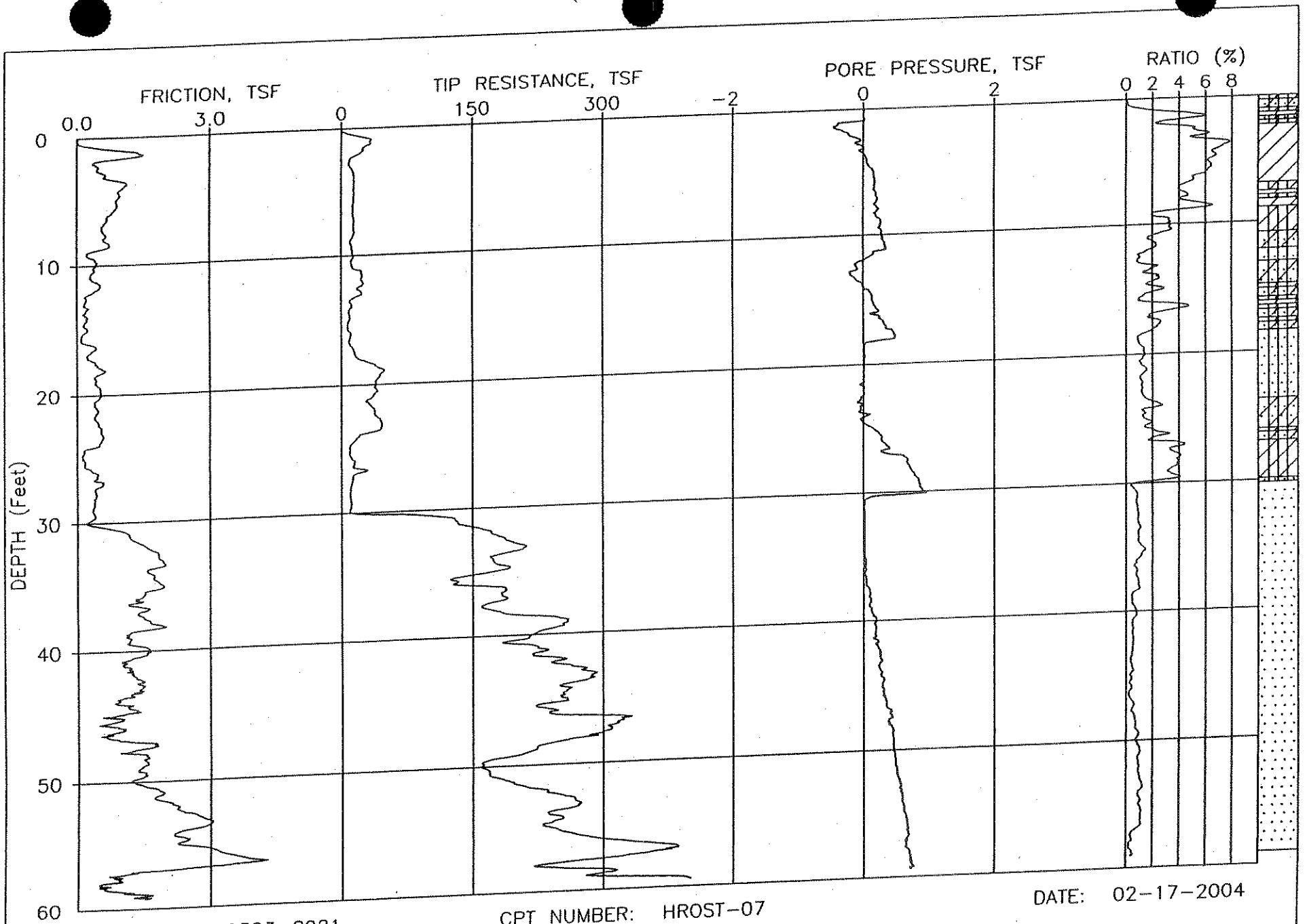
CPT NUMBER: HROST-05

CONE NUMBER: F7.5CKEW1170

DATE: 02-18-2004

PLATE: 2 OF 2

FUGRO GEOSCIENCES,INC



JOB NUMBER: 0303-0921

ELEVATION: 0.00

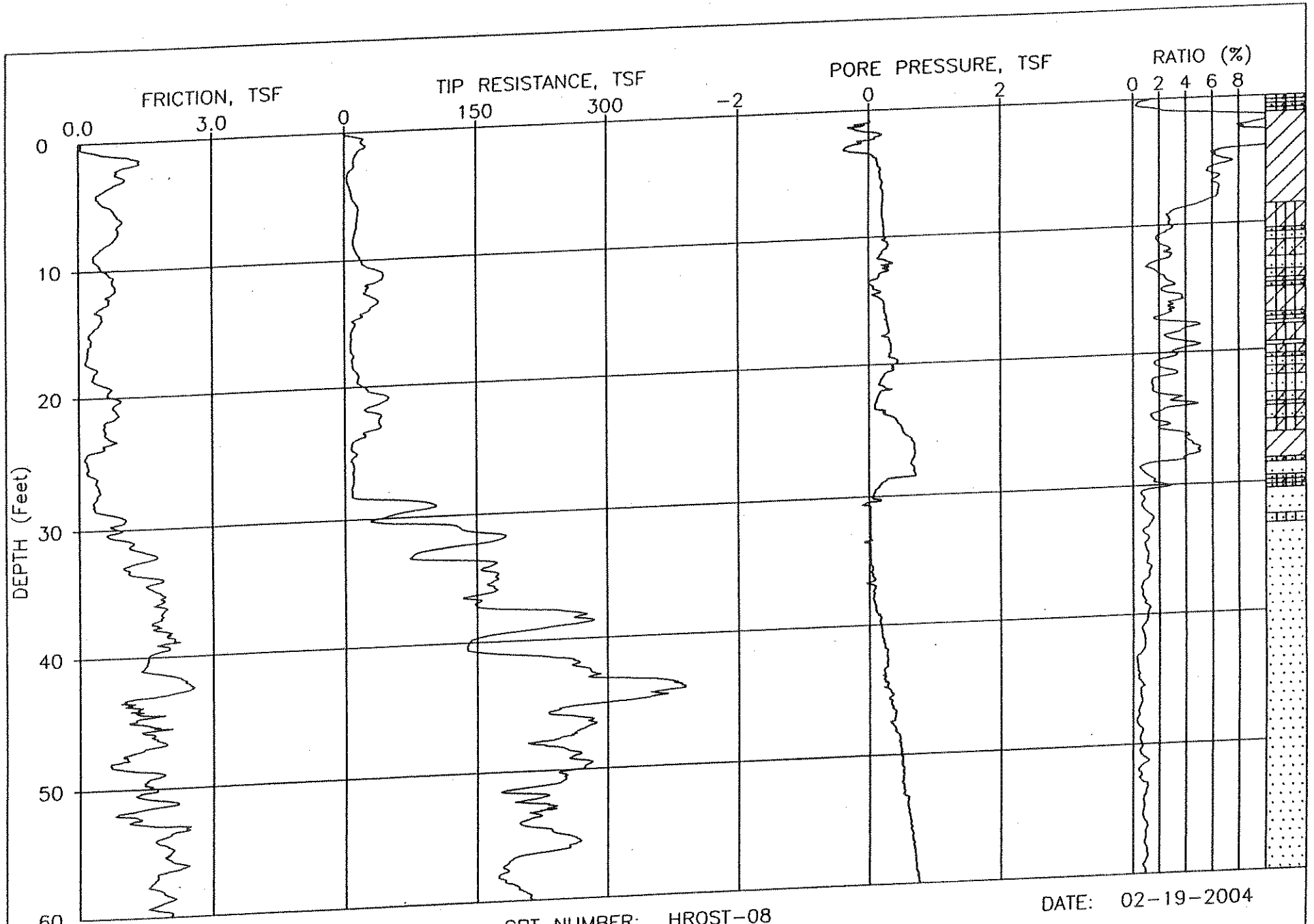
CPT NUMBER: HROST-07

CONE NUMBER: F7.5CKEW1170

DATE: 02-17-2004

PLATE: 1 OF 1

FUGRO GEOSCIENCES,INC



JOB NUMBER: 0303-0921

ELEVATION: 0.00

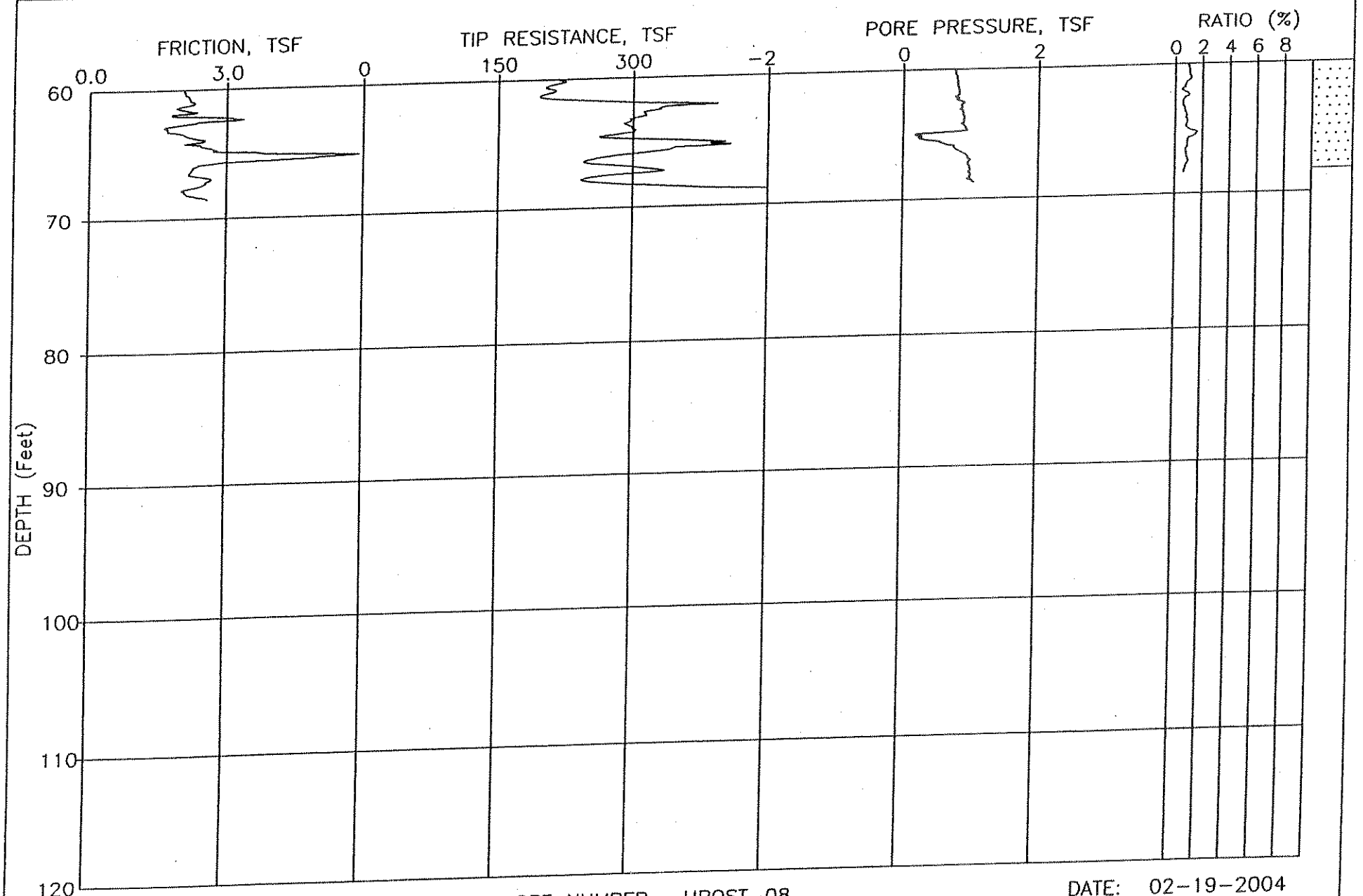
CPT NUMBER: HROST-08

CONE NUMBER: F7.5CKEW1170

DATE: 02-19-2004

PLATE: 1 OF 2

FUGRO GEOSCIENCES,INC



JOB NUMBER: 0303-0921

ELEVATION: 0.00

CPT NUMBER: HROST-08

CONE NUMBER: F7.5CKEW1170

DATE: 02-19-2004

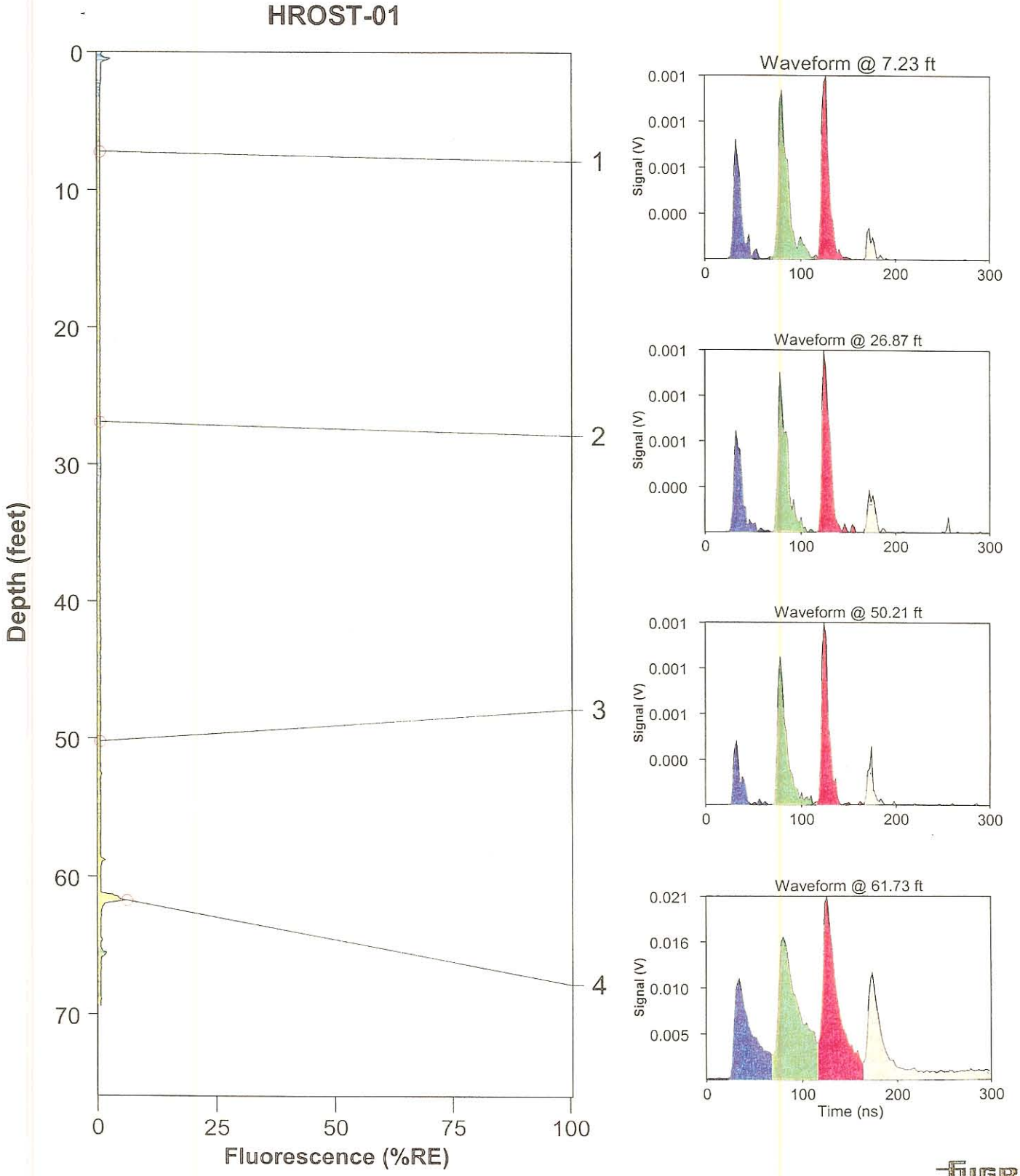
PLATE: 2 OF 2

FUGRO GEOSCIENCES,INC

ROST™ LOGS

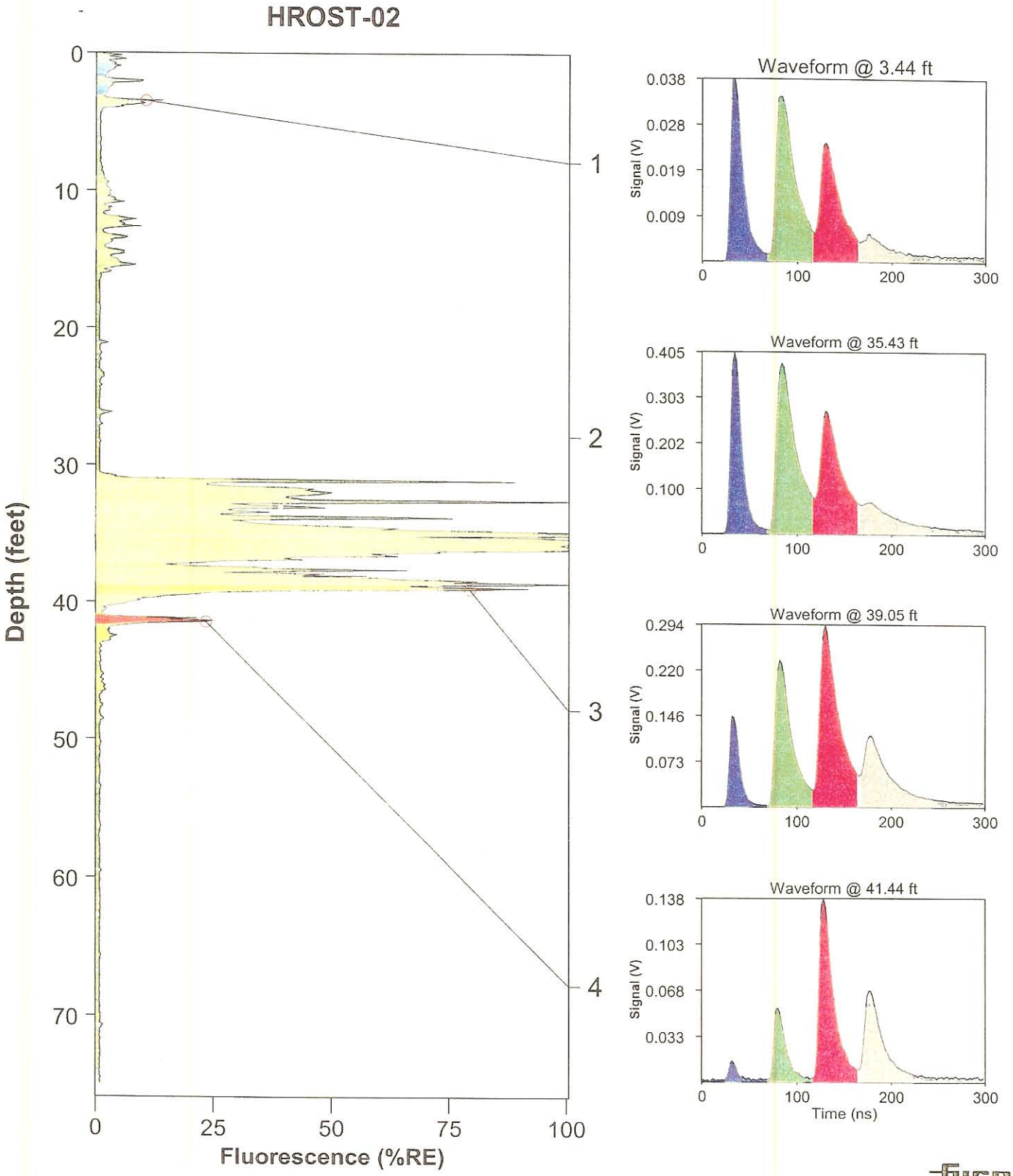
ROST Fluorescence Response Data

Site: Village of Hartford	Operator: ddeleon
Client: Clayton Group Services	Fugro Job #: 0303-0921
Date/Time: 2/16/2004 @ 11:21:16 AM	Max fluorescence: 5.75% @ 61.73 ft
ROST Unit: 1	Final depth BGS: 69.42 ft



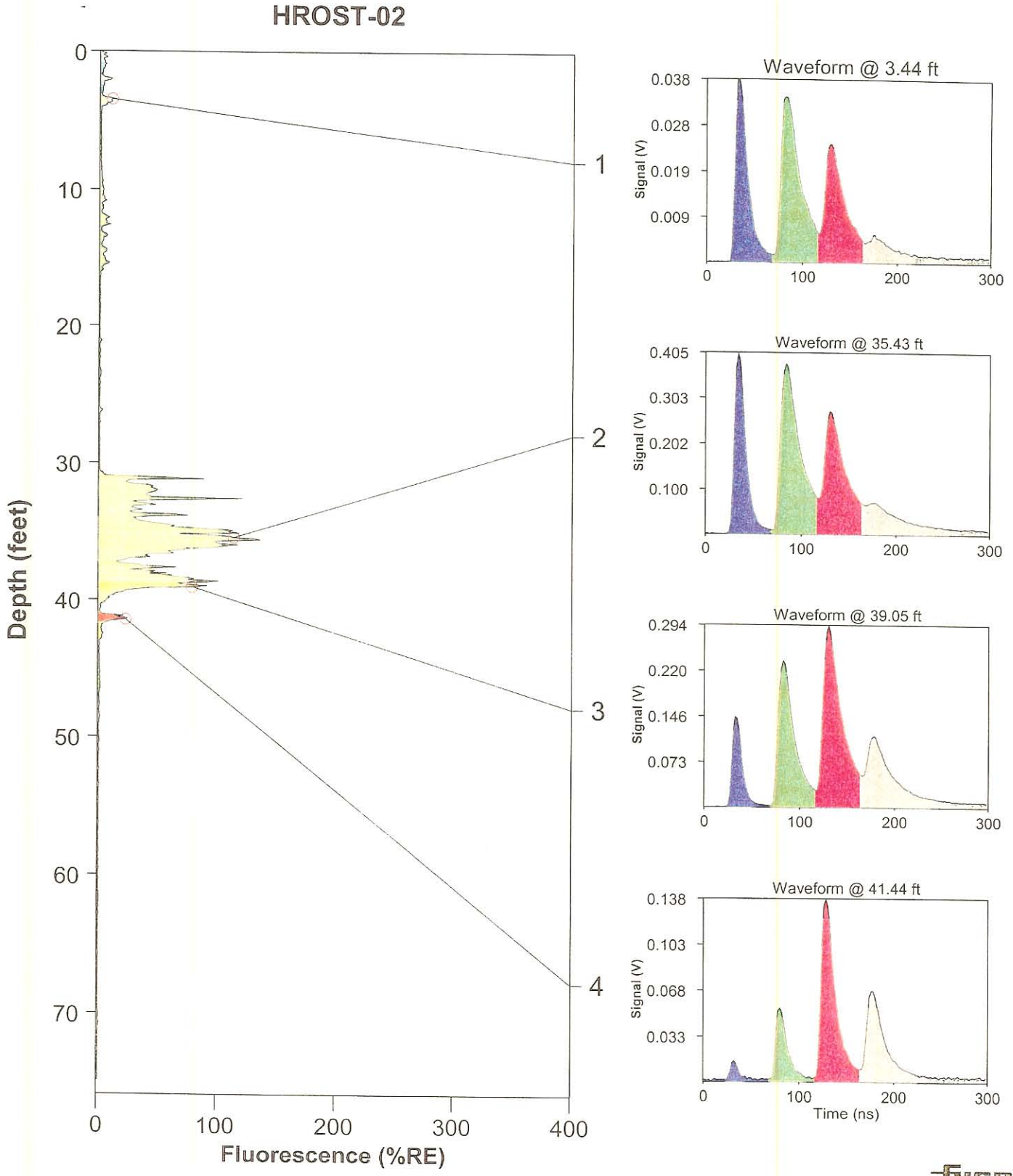
ROST Fluorescence Response Data

Site: Village of Hartford	Operator: ddeleon
Client: Clayton Group Services	Fugro Job #: 0303-0921
Date/Time: 2/16/2004 @ 9:39:23 AM	Max fluorescence: 135.94% @ 35.61 ft
ROST Unit: 1	Final depth BGS: 74.96 ft



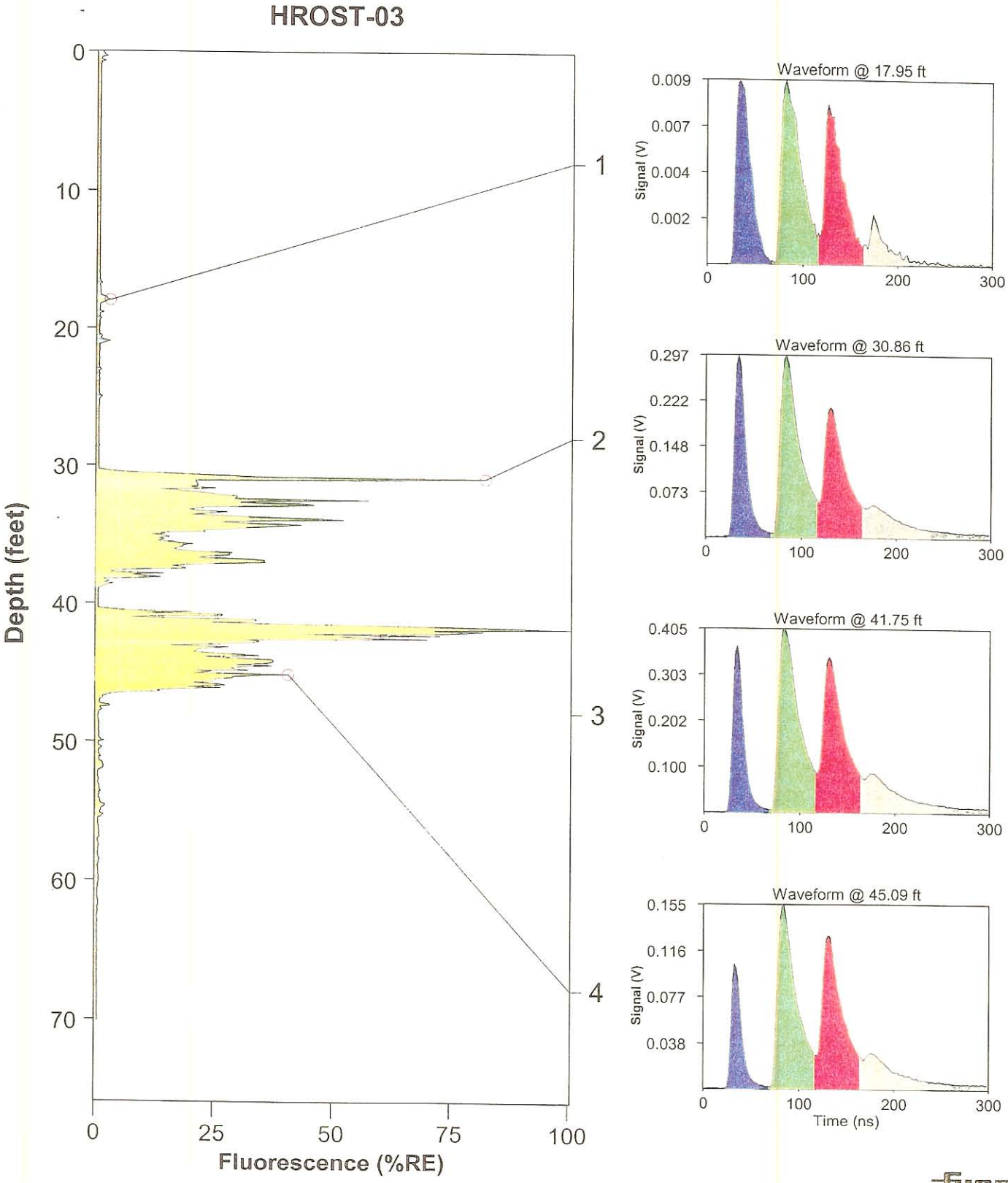
ROST Fluorescence Response Data

Site: Village of Hartford	Operator: ddeleon
Client: Clayton Group Services	Fugro Job #: 0303-0921
Date/Time: 2/16/2004 @ 9:39:23 AM	Max fluorescence: 135.94% @ 35.61 ft
ROST Unit: 1	Final depth BGS: 74.96 ft



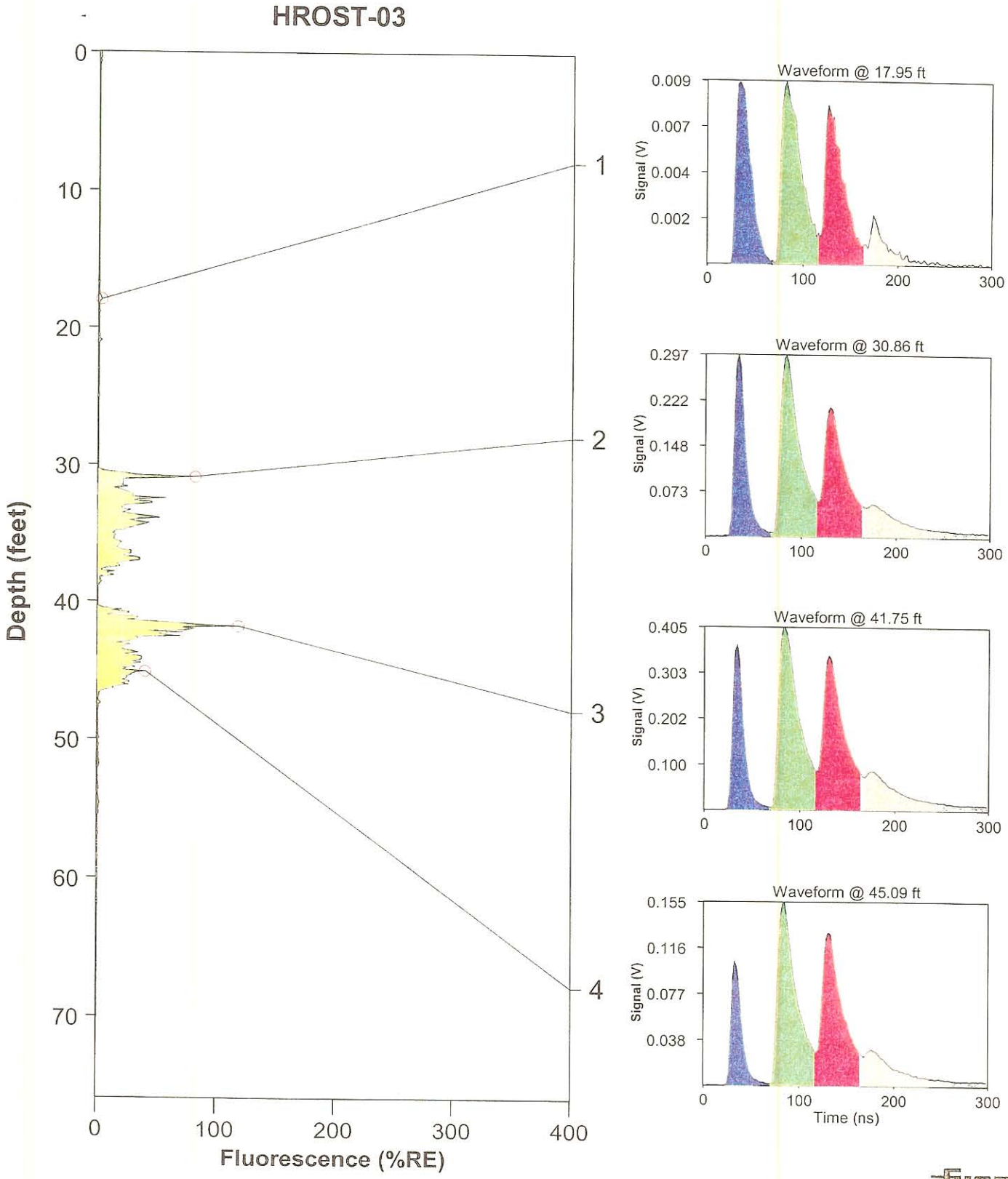
ROST Fluorescence Response Data

Site: Village of Hartford	Operator: ddeleon
Client: Clayton Group Services	Fugro Job #: 0303-0921
Date/Time: 2/17/2004 @ 6:37:18 AM	Max fluorescence: 118.45% @ 41.75 ft
ROST Unit: 1	Final depth BGS: 70.13 ft



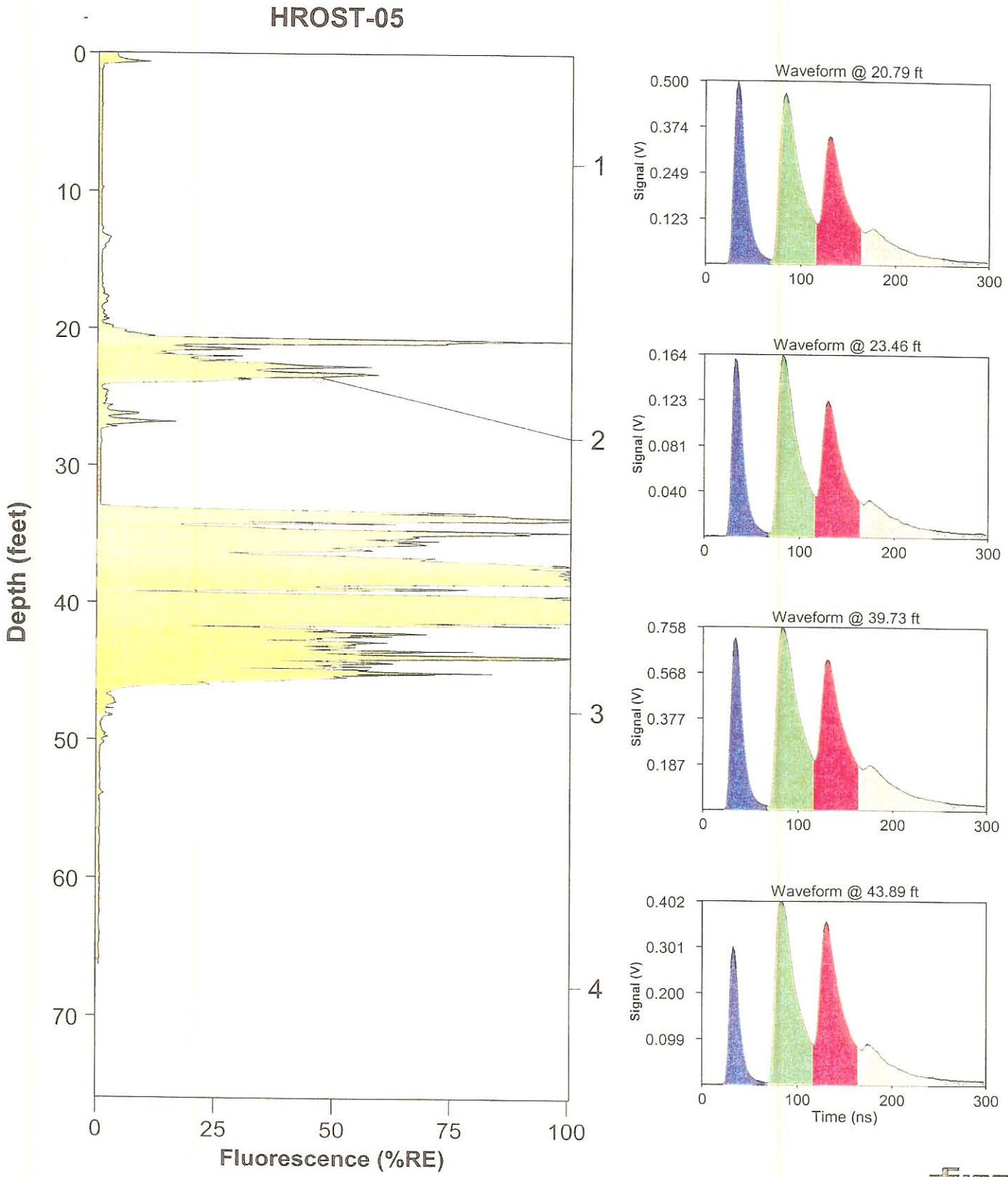
ROST Fluorescence Response Data

Site: Village of Hartford	Operator: ddeleon
Client: Clayton Group Services	Fugro Job #: 0303-0921
Date/Time: 2/17/2004 @ 6:37:18 AM	Max fluorescence: 118.45% @ 41.75 ft
ROST Unit: 1	Final depth BGS: 70.13 ft



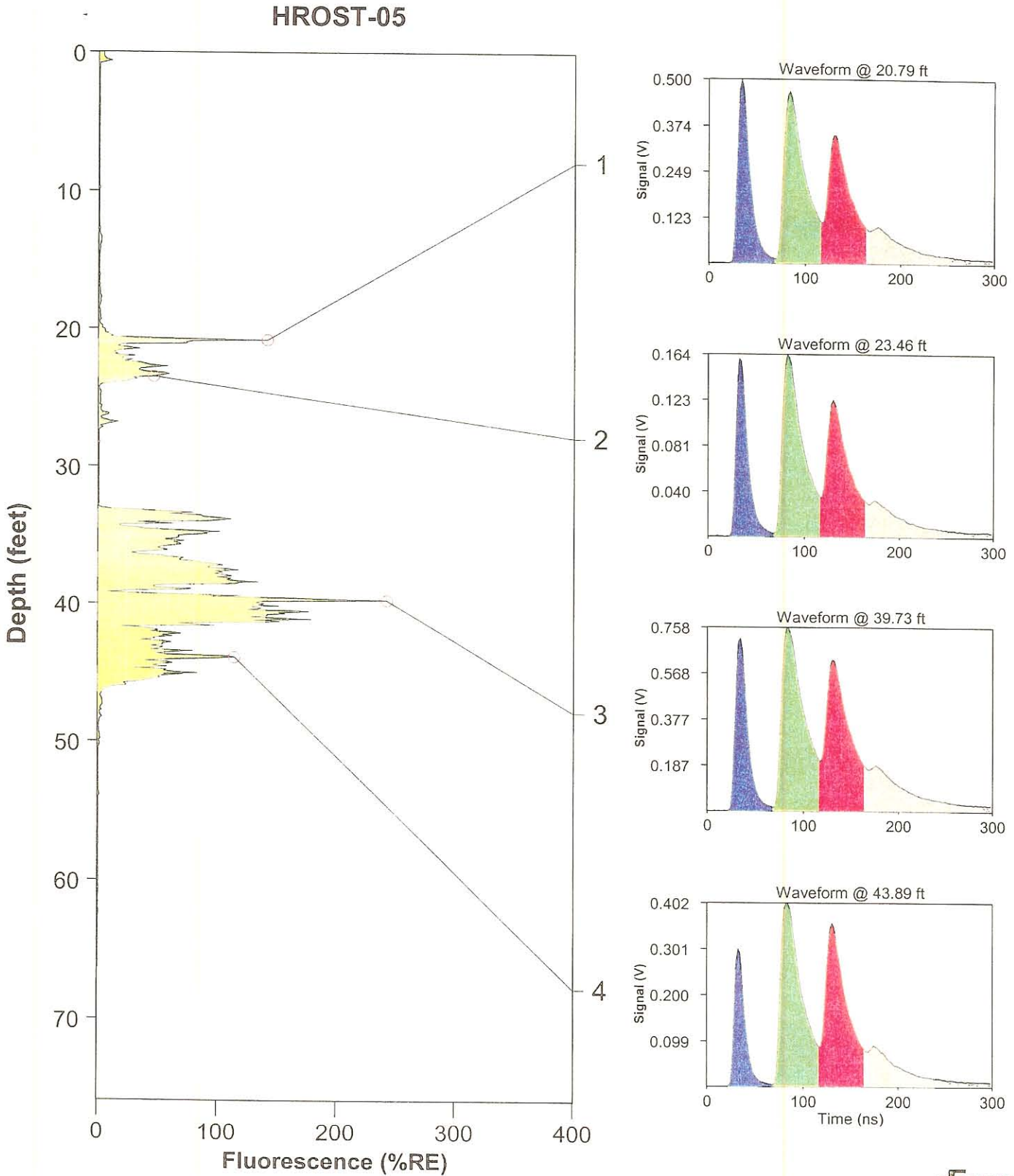
ROST Fluorescence Response Data

Site: Village of Hartford	Operator: ddeleon
Client: Clayton Group Services	Fugro Job #: 0303-0921
Date/Time: 2/18/2004 @ 8:44:24 AM	Max fluorescence: 242.12% @ 39.73 ft
ROST Unit: 1	Final depth BGS: 66.39 ft



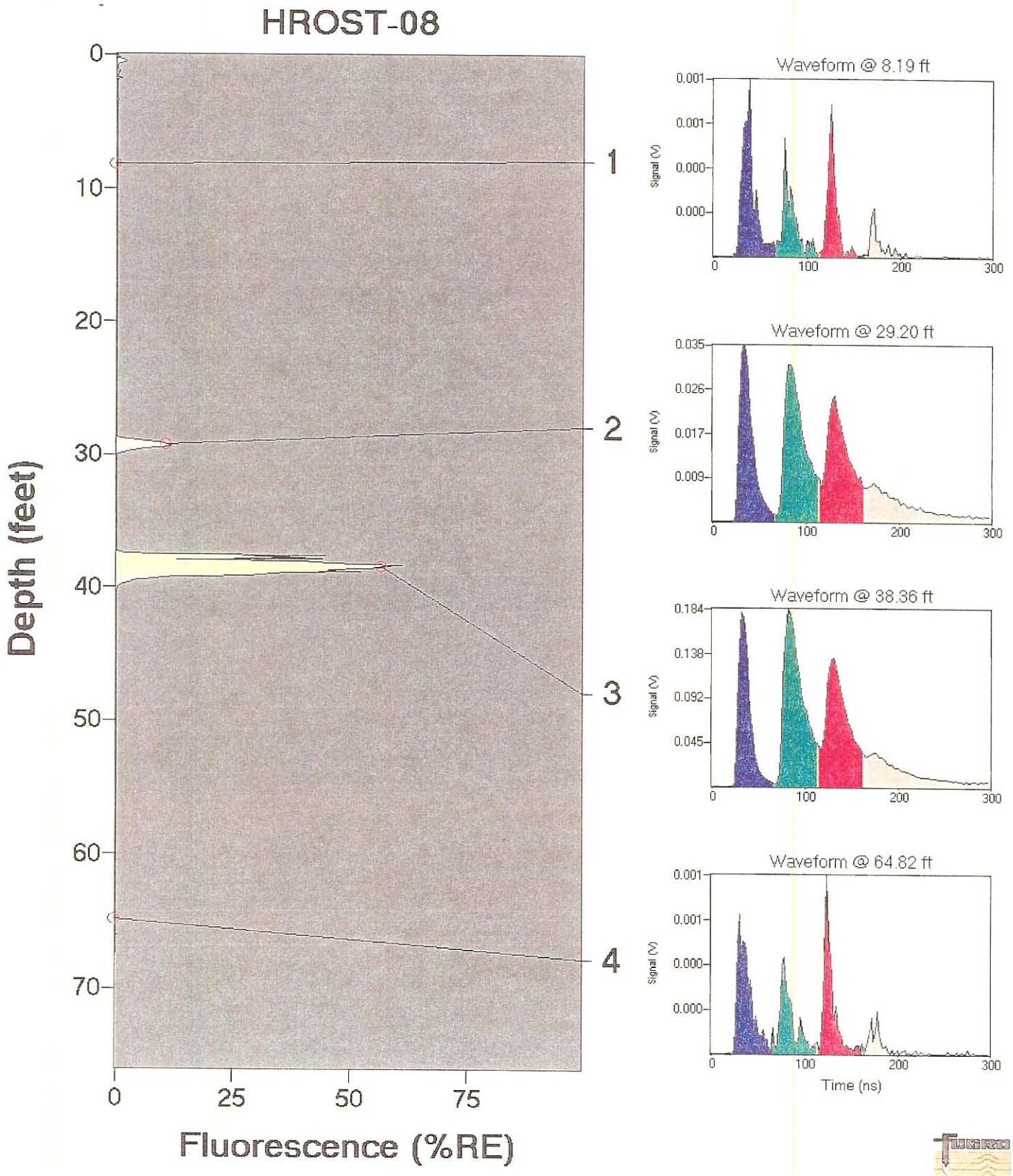
ROST Fluorescence Response Data

Site: Village of Hartford	Operator: ddeleon
Client: Clayton Group Services	Fugro Job #: 0303-0921
Date/Time: 2/18/2004 @ 8:44:24 AM	Max fluorescence: 242.12% @ 39.73 ft
ROST Unit: 1	Final depth BGS: 66.39 ft



ROST Fluorescence Response Data

Site: Village of Hartford	Operator: ddeleon
Client: Clayton Group Services	Fugro Job #: 0303-0921
Date/Time: 2/19/2004 @ 12:57:37 PM	Max fluorescence: 61.58% @ 38.29 ft
ROST Unit: 1	Final depth BGS: 67.48 ft



ROST Fluorescence Response Data

Site: Village of Hartford	Operator: ddeleon
Client: Clayton Group Services	Fugro Job #: 0303-0921
Date/Time: 2/17/2004 @ 7:31:51 AM	Max fluorescence: 11.60% @ 39.31 ft
ROST Unit: 1	Final depth BGS: 58.19 ft

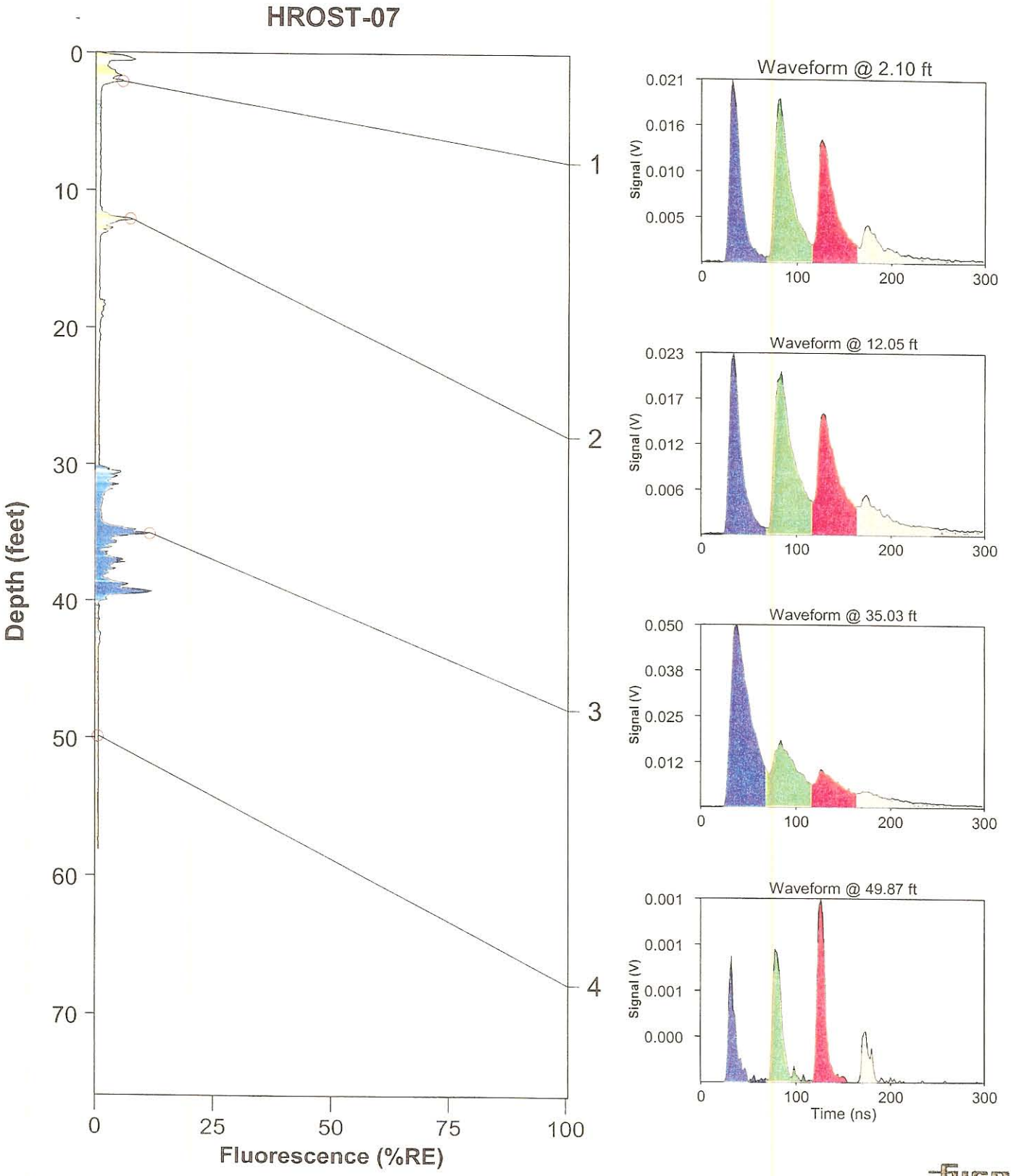


TABLE 4-1
Visual Evaluation of FPH in Selected Soil and Groundwater Samples
Shake Test Results

The Hartford Working Group / Village of Hartford, Illinois

BORING LOCATION	DEPTH (ft)	DATE SAMPLED	VISUAL SOIL CLASSIFICATION	VISUAL PRODUCT THICKNESS/ OBSERVATIONS Before Petroleum Dye (inches)	VISUAL PRODUCT THICKNESS/ OBSERVATIONS After Petroleum Dye (inches)
HROST-1	31-32	02/22/04	Fine-grained sand, medium brown/grey, some silt	None	None
HROST-1	33-35	02/22/04	Groundwater (not applicable)	None	NA
HROST-4	20-22	02/18/04	Silty clay, grey, trace medium-to-fine-grained sand	< 1/32, light brown	NA
HROST-4	22-24	02/18/04	Silty clay, grey, trace medium-to-fine-grained sand	< 1/32, light brown	NA
HROST-4	32-34	02/18/04	Silty clay, medium brown/grey, trace fine-to-medium-grained sand	None	NA
HROST-4	34-36	02/18/04	Fine-to-medium-grained sand, medium brown, some silt	1/8, light brown/yellow tinge, droplets	1/8
HROST-4	36-38	02/18/04	Fine-grained sand, grey, some silt	< 1/32, grey	NA
HROST-4	38-40	02/18/04	Fine-grained sand, grey, some silt	None	NA
HROST-4	40-42	02/18/04	Silty clay, grey, trace fine-grained sand	None	NA
HROST-4	42-44	02/18/04	Silty sand, grey, medium-to-fine-grained, trace clay	1/8, grey, droplets	1/8
HROST-13	36-38	02/22/04	Groundwater (not applicable)	1/32, clear, foamy	Sheen
HROST-13	16-18	02/19/04	Silty clay, light brown, trace fine-grained sand	1/32, light brown, foamy	Sheen/globules - No measurable thickness
HROST-13	18-20	02/19/04	Silty clay, light brown, trace fine-to-medium-grained sand	1/16, light brown, foamy	NA
HROST-13	20-22	02/19/04	Silty clay, light brown, trace fine-grained sand	None	NA
HROST-13	22-24	02/19/04	Silty clay, light brown, trace fine-to-medium-grained sand	< 1/32, light brown	NA
HROST-13	32-34	02/19/04	Fine-to-medium-grained sand, grey, some silt	1/8, clear, foamy	1/8
HROST-13	34-36	02/19/04	Fine-to-medium-grained sand, grey to medium brown, some silt	1/8, clear, foamy	1/8
HROST-13	36-40	02/19/04	Fine-to-medium-grained sand, grey to medium brown, some silt	Sheen	NA
HROST-27	33-35	02/22/04	Silty clay, grey, trace fine-grained sand	None	None

TABLE 4-1
Visual Evaluation of FPH in Selected Soil and Groundwater Samples
Shake Test Results

The Hartford Working Group / Village of Hartford, Illinois

BORING LOCATION	DEPTH (ft)	DATE SAMPLED	VISUAL SOIL CLASSIFICATION	VISUAL PRODUCT THICKNESS/ OBSERVATIONS Before Petroleum Dye (inches)	VISUAL PRODUCT THICKNESS/ OBSERVATIONS After Petroleum Dye (inches)
HROST-33	12-14	02/18/04	Very fine-grained sand, grey, some silt	None	NA
HROST-33	14-16	02/18/04	Very fine-grained sand, grey, some silt	None	NA
HROST-33	28-30	02/18/04	Fine-to-medium-grained sand, medium brown, some silt	1/16, medium brown	1/16
HROST-33	30-32	02/18/04	Fine-to-medium-grained sand, medium brown, some silt	Sheen, medium brown	Sheen/globules - No measurable thickness
HROST-33	32-34	02/18/04	Fine-to-medium-grained sand, medium brown, some silt	1/8, medium brown	1/8
HROST-33	32-34	02/18/04	Fine-to-medium-grained sand, medium brown, some silt	1/16, medium-dark brown	1/16
HROST-39	34-36	01/29/04	Fine-to-medium-grained sand, medium brown, some silt	None	None
HROST-39	36-38	01/29/04	Fine-to-medium-grained sand, medium brown, some silt	< 1/32, light brown	Sheen/globules - No measurable thickness
HROST-39	40-42	01/29/04	Fine-to-medium-grained sand, medium brown, some silt	None	None
HROST-43	36-38	02/22/04	Fine-grained sand, grey-stained black, some silt	1/16, yellowish	1/16
HROST-52	12-14	02/17/04	Silt, grey, trace fine-grained sand	1/32	1/32
HROST-52	14-16	02/17/04	Silt, grey with fine-grained sand	1/32, light brown	Sheen/globules - No measurable thickness
HROST-52	32-34	02/17/04	Fine-to-medium-grained sand, medium brown, some silt	1/32, medium brown	1/32
HROST-52	34-36	02/17/04	Fine-to-medium-grained sand, medium brown, trace silt	1/16	1/16
HROST-57	31-33	02/22/04	Fine-to-medium-grained sand, medium brown/grey, trace silt	None	None
HROST-57	33-35	02/22/04	Groundwater (not applicable)	None	NA
HROST-60	38-40	02/22/04	Groundwater (not applicable)	None	NA
HROST-61	31-33	02/22/04	Fine-to-medium-grained sand, medium brown, some silt	None	None
HROST-78	38-40	02/22/04	Fine-grained sand, grey-stained black	1/8, clear/yellowish	1/8

NOTES: FPH = Free Phase Hydrocarbons
NA = Not tested with petroleum dye
Petroleum dye used is the Oil-in-Soil ™ oil screening test kit.

TABLE 4-2
Soil Analytical Results
TPH, BTEX/MTBE, and Naphthalene

The Hartford Working Group / Village of Hartford, Illinois

CHEMICAL NAME	BORING LOCATION, SAMPLE DEPTH (BGS), AND SAMPLE DATE															
	HROST-1 31-32 ft 2/22/04		HROST-4 34-36 ft 2/18/04		HROST-13 32-36 ft 2/19/04		HROST-33 30-32 ft 2/18/04		HROST-43 36-38 ft 2/22/04		HROST-49 26-28 ft 1/30/04		HROST-49 36-38 ft 1/30/04		HROST-57 31-33 ft 2/22/04	
	Result	DQ	Result	DQ	Result	DQ	Result	DQ	Result	DQ	Result	DQ	Result	DQ	Result	DQ
TPH																
Diesel	<6.30		213		<147		2,610		<123		<25.7		<58.7		<5.96	
Kerosene	<6.30		<30.9		2,240		<262		1,620	*	87	*	830	*	<5.96	
Mineral Spirits	<6.30		<30.9		<147		<262		<123		<25.7		<58.7		<5.96	
Motor Oil	<6.30		<30.9		<147		<262		<123		<25.7		<58.7		<5.96	
Gasoline Range Organics	5.33		608		12,400		4,050		17,200		1,020		10,400		<1.06	
Total TPH	5.33		821		14,640		6,660		18,820		1,107		11,230		<5.96	
BTEX/MTBE																
Benzene	0.145		1.01		157		25.4		270		2.36		70.3		0.0012	J
Toluene	0.0095		<0.473	J	651		182		1,240		23.7		568		0.0026	J
Ethyl benzene	0.0455		2.35		205		67.6		351		17.7		163		<0.0053	
Xylenes (total)	0.027		8.35		918		316		1,880		79.7		738		0.0013	J
MTBE	<0.0023		<0.189		<0.387		0.922	J	<4.53		<0.877		<9.22		<0.0021	
Total BTEX/MTBE	0.227		11.71		1,931		592		3,741		123		1,539		0.0051	J
Naphthalene	NA		NA		NA		NA		NA		4.19		22.9		NA	

NOTES:
All results are in milligrams per kilogram (mg/kg).
DQ = Data Qualifier
TPH = Total Petroleum Hydrocarbons
BTEX = Benzene, Toluene, Ethylbenzene, Xylenes (total)
MTBE = Methyl Tert-Butyl Ether
J = Analyte detected below quantitation limits.
bgs = Below Ground Surface
NA = Not Analyzed
* Result is identified as kerosene-like by laboratory

The analyses were conducted using USEPA SW-846 3550B Method 8015 for TPH, SW-846 3550B Method 8270C for naphthalene, and SW-846 Methods 50351 8260B for BTEX, MTBE, and GRO.

CLAYTON GROUP SERVICES, INC.

15-03095.14ta004 / 4/6/2004 / KDC/BRS

TABLE 4-3
Groundwater Analytical Results
BTEX/MTBE

The Hartford Working Group / Village of Hartford, Illinois

CHEMICAL NAME	BORING LOCATION AND SAMPLE DATE							
	HROST-1 2/22/04		HROST-13 2/22/04		HROST-57 2/22/04		HROST-60 2/22/04	
	Result	DQ	Result	DQ	Result	DQ	Result	DQ
Benzene	1.37		15.8		0.014		0.00092	J
Toluene	<0.25		18.1		0.149		0.00662	
Ethylbenzene	<0.25		2.42		0.0654		0.004	J
Xylenes (total)	<0.25		11.1		0.326		0.0183	
MTBE	<0.10		<0.20		<0.002		<0.002	

NOTES:
All results are in milligrams per liter (mg/L).
DQ = Data Qualifier
J = Compound detected below the reporting limit.
BTEX = Benzene, Toluene, Ethylbenzene, Xylenes (total)
MTBE = Methyl Tert-Butyl Ether
Analyses for BETX and MTBE were conducted using USEPA SW-846 Methods 5030/8260B.

TEKLAB, INC.

COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

March 01, 2004

Ken Comire
Clayton Group Srevices
3140 Finley Road
Downers Grove, IL 60515
TEL: (630) 795-3203
FAX: (630) 795-1130

ACCREDITED IN ACCORDANCE WITH nelac

NELAP Accredited #100226

RE: Hartford Working Group 15-03095.14-001 OrderNo. 04020564

Dear Ken Comire:

TEKLAB, INC received 4 samples on 2/23/04 1:50:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest that have been tested. IL ELAP and NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP/Part 186 except where noted in the Case Narrative. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Michael L. Austin
Director of Operations

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: Clayton Group Srevices
Project: Hartford Working Group 15-03095.14-001
LabOrder: 04020564
Report Date: March 01, 2004

CASE NARRATIVE

Analytical Comments for METHOD V_BTEXOA1_S, SAMPLE 04020564-003D: Elevated reporting limit due to matrix interference.
Analytical Comments for METHOD SV_OA2_S, SAMPLE 04020564-003A: #: Unknown hydrocarbon. Elevated reporting limit due to matrix interference.

Qualifiers

DF - Dilution Factor	**B** - Analyte detected in the associated Method Blank	**E** - Value above quantitation range
RL - Reporting Limit	**J** - Analyte detected below quantitation limits	**H** - Holding time exceeded
ND - Not Detected at the Reporting Limit	**R** - RPD outside accepted recovery limits	**D** - Diluted out of sample
Surr - Surrogate Standard added by lab	**S** - Spike Recovery outside accepted recovery limits	**MI** - Matrix interference
TNTC - Too numerous to count	***** - Value exceeds Maximum Contaminant Level	**DNI** Did Not Ignite
IDPH - Illinois Department of Public Health	**NELAP** - IL ELAP and NELAP Accredited Field of Testing	

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Clayton Group Srevices	**Client Project:**	Hartford Working Group 15-03095.14
WorkOrder:	04020564	**Client Sample ID:**	HROST-1-31-32ft 22204
Lab ID:	04020564-001	**Collection Date:**	2/22/04 9:05:00 AM
Report Date:	01-Mar-04	**Matrix:**	SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
STANDARD METHODS 18TH ED. 2540G								
Percent Moisture		0.1		**20.0**	%	1	2/25/04	DLY
Total Solids		0.1		**80.0**	%	1	2/26/04	DLY
SW-846 3550B, METHOD 8015, TOTAL PETROLEUM HYDROCARBONS (OA-2) BY GC/FID								
Diesel	NELAP	6.30		**ND**	mg/Kg-dry	1	2/25/04 2:48:00 PM	CJS
Kerosene	NELAP	6.30		**ND**	mg/Kg-dry	1	2/25/04 2:48:00 PM	CJS
Mineral Spirits	NELAP	6.30		**ND**	mg/Kg-dry	1	2/25/04 2:48:00 PM	CJS
Motor Oil	NELAP	6.30		**ND**	mg/Kg-dry	1	2/25/04 2:48:00 PM	CJS
Surr: n-Tetracontane	NELAP	50.6-140		**77.4**	%REC	1	2/25/04 2:48:00 PM	CJS
SW-846 METHODS 5035 / 8260B, GASOLINE RANGE ORGANICS (OA-1) BY GC/MS								
Methyl tert-butyl ether	NELAP	2.3		**ND**	µg/Kg-dry	1	2/28/04 2:49:00 PM	HLS
Benzene	NELAP	2.3		**145**	µg/Kg-dry	1	2/28/04 2:49:00 PM	HLS
Toluene	NELAP	5.9		**9.5**	µg/Kg-dry	1	2/28/04 2:49:00 PM	HLS
Ethylbenzene	NELAP	5.9		**45.5**	µg/Kg-dry	1	2/28/04 2:49:00 PM	HLS
Xylenes, Total	NELAP	5.9		**27.0**	µg/Kg-dry	1	2/28/04 2:49:00 PM	HLS
Gasoline Range Organics		1170		**5330**	µg/Kg-dry	1	2/28/04 2:49:00 PM	HLS
Surr: 1,2-Dichloroethane-d4		75-129		**109**	%REC	1	2/28/04 2:49:00 PM	HLS
Surr: 4-Bromofluorobenzene		63-123		**101**	%REC	1	2/28/04 2:49:00 PM	HLS
Surr: Dibromofluoromethane		70-136		**101**	%REC	1	2/28/04 2:49:00 PM	HLS
Surr: Toluene-d8		89-116		**97.6**	%REC	1	2/28/04 2:49:00 PM	HLS

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Srevices
WorkOrder: 04020564
Lab ID: 04020564-002
Report Date: 01-Mar-04

Client Project: Hartford Working Group 15-03095.14
Client Sample ID: HROST-57-31-33ft 22204
Collection Date: 2/22/04 12:00:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
STANDARD METHODS 18TH ED. 2540G								
Percent Moisture		0.1		15.3	%	1	2/25/04	DLY
Total Solids		0.1		84.7	%	1	2/26/04	DLY
SW-846 3550B, METHOD 8015, TOTAL PETROLEUM HYDROCARBONS (OA-2) BY GC/FID								
Diesel	NELAP	5.96		ND	mg/Kg-dry	1	2/25/04 3:17:00 PM	CJS
Kerosene	NELAP	5.96		ND	mg/Kg-dry	1	2/25/04 3:17:00 PM	CJS
Mineral Spirits	NELAP	5.96		ND	mg/Kg-dry	1	2/25/04 3:17:00 PM	CJS
Motor Oil	NELAP	5.96		ND	mg/Kg-dry	1	2/25/04 3:17:00 PM	CJS
Surr: n-Tetracontane	NELAP	50.6-140		86.2	%REC	1	2/25/04 3:17:00 PM	CJS
SW-846 METHODS 5035 / 8260B, GASOLINE RANGE ORGANICS (OA-1) BY GC/MS								
Methyl tert-butyl ether	NELAP	2.1		ND	µg/Kg-dry	1	2/28/04 3:21:00 PM	HLS
Benzene	NELAP	2.1	J	1.2	µg/Kg-dry	1	2/28/04 3:21:00 PM	HLS
Toluene	NELAP	5.3	J	2.6	µg/Kg-dry	1	2/28/04 3:21:00 PM	HLS
Ethylbenzene	NELAP	5.3		ND	µg/Kg-dry	1	2/28/04 3:21:00 PM	HLS
Xylenes, Total	NELAP	5.3	J	1.3	µg/Kg-dry	1	2/28/04 3:21:00 PM	HLS
Gasoline Range Organics		1060		ND	µg/Kg-dry	1	2/28/04 3:21:00 PM	HLS
Surr: 1,2-Dichloroethane-d4		75-129		107	%REC	1	2/28/04 3:21:00 PM	HLS
Surr: 4-Bromofluorobenzene		63-123		101	%REC	1	2/28/04 3:21:00 PM	HLS
Surr: Dibromofluoromethane		70-136		103	%REC	1	2/28/04 3:21:00 PM	HLS
Surr: Toluene-d8		89-116		99.1	%REC	1	2/28/04 3:21:00 PM	HLS

TEKLAB, INC.

COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Clayton Group Srevices	**Client Project:**	Hartford Working Group 15-03095.14
WorkOrder:	04020564	**Client Sample ID:**	HROST-43-36-38ft 2/22/04
Lab ID:	04020564-003	**Collection Date:**	2/22/04 12:45:00 PM
Report Date:	01-Mar-04	**Matrix:**	SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
STANDARD METHODS 18TH ED. 2540G								
Percent Moisture		0.1		19.4	%	1	2/25/04	DLY
Total Solids		0.1		80.6	%	1	2/26/04	DLY
SW-846 3550B, METHOD 8015, TOTAL PETROLEUM HYDROCARBONS (OA-2) BY GC/FID								
Diesel	NELAP	123		ND	mg/Kg-dry	10	2/25/04 4:45:00 PM	CJS
Kerosene	NELAP	123		1620 #	mg/Kg-dry	10	2/25/04 4:45:00 PM	CJS
Mineral Spirits	NELAP	123		ND	mg/Kg-dry	10	2/25/04 4:45:00 PM	CJS
Motor Oil	NELAP	123		ND	mg/Kg-dry	10	2/25/04 4:45:00 PM	CJS
Surr: n-Tetracontane	NELAP	50.6-140		64.8	%REC	10	2/25/04 4:45:00 PM	CJS
SW-846 METHODS 5035 / 8260B, GASOLINE RANGE ORGANICS (OA-1) BY GC/MS								
Methyl tert-butyl ether	NELAP	4530		ND	µg/Kg-dry	1000	2/26/04 8:17:00 AM	HLS
Benzene	NELAP	4530		270000	µg/Kg-dry	1000	2/26/04 8:17:00 AM	HLS
Toluene	NELAP	113000		1240000	µg/Kg-dry	10000	2/28/04 3:53:00 PM	HLS
Ethylbenzene	NELAP	11300		351000	µg/Kg-dry	1000	2/26/04 8:17:00 AM	HLS
Xylenes, Total	NELAP	113000		1880000	µg/Kg-dry	10000	2/28/04 3:53:00 PM	HLS
Gasoline Range Organics		2260000		17200000	µg/Kg-dry	1000	2/26/04 8:17:00 AM	HLS
Surr: 1,2-Dichloroethane-d4		75-129		105	%REC	1000	2/26/04 8:17:00 AM	HLS
Surr: 4-Bromofluorobenzene		63-123		101	%REC	1000	2/26/04 8:17:00 AM	HLS
Surr: Dibromofluoromethane		70-136		101	%REC	1000	2/26/04 8:17:00 AM	HLS
Surr: Toluene-d8		89-116		97.3	%REC	1000	2/26/04 8:17:00 AM	HLS

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Clayton Group Srevices	**Client Project:**	Hartford Working Group 15-03095.14
WorkOrder:	04020564	**Client Sample ID:**	Trip Blank
Lab ID:	04020564-004	**Collection Date:**	2/20/04 8:10:00 AM
Report Date:	01-Mar-04	**Matrix:**	TRIP BLANK

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 METHODS 5030 / 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	2.0		ND	µg/L	1	2/26/04 7:29:00 AM	RLH
Toluene	NELAP	5.0		ND	µg/L	1	2/26/04 7:29:00 AM	RLH
Ethylbenzene	NELAP	5.0		ND	µg/L	1	2/26/04 7:29:00 AM	RLH
Xylenes, Total	NELAP	5.0	J	1.1	µg/L	1	2/26/04 7:29:00 AM	RLH
Surr: 1,2-Dichloroethane-d4		70-136		102	%REC	1	2/26/04 7:29:00 AM	RLH
Surr: 4-Bromofluorobenzene		72-125		97.6	%REC	1	2/26/04 7:29:00 AM	RLH
Surr: Dibromofluoromethane		67-138		107	%REC	1	2/26/04 7:29:00 AM	RLH
Surr: Toluene-d8		80-124		99.6	%REC	1	2/26/04 7:29:00 AM	RLH

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

February 26, 2004

Ken Comire
Clayton Group Services
3140 Finley Road
Downers Grove, IL 60515
TEL: (630) 795-3203
FAX:

ACCREDITED IN ACCORDANCE WITH nelac

NELAP Accredited #100226

RE: Hartford Working Group 15-03095.14-001 OrderNo. 04020565

Dear Ken Comire:

TEKLAB, INC received 4 samples on 2/23/04 1:50:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest that have been tested. IL ELAP and NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP/Part 186 except where noted in the Case Narrative. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Michael L. Austin
Director of Operations

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: Clayton Group Services
Project: Hartford Working Group 15-03095.14-001
LabOrder: 04020565
Report Date: February 26, 2004

CASE NARRATIVE

Analytical Comments for METHOD V_BTEX_MTBE_W, SAMPLE 04020565-004AMSD: Matrix interference present in sample.
Analytical Comments for METHOD V_BTEX_MTBE_W, SAMPLE 04020565-001A, 002A: Elevated reporting limit due to matrix interference.

Qualifiers

DF - Dilution Factor	**B** - Analyte detected in the associated Method Blank	**E** - Value above quantitation range
RL - Reporting Limit	**J** - Analyte detected below quantitation limits	**H** - Holding time exceeded
ND - Not Detected at the Reporting Limit	**R** - RPD outside accepted recovery limits	**D** - Diluted out of sample
Surr - Surrogate Standard added by lab	**S** - Spike Recovery outside accepted recovery limits	**MI** - Matrix interference
TNTC - Too numerous to count	***** - Value exceeds Maximum Contaminant Level	**DNI** Did Not Ignite
IDPH - Illinois Department of Public Health	**NELAP** - IL ELAP and NELAP Accredited Field of Testing	

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04020565
Lab ID: 04020565-001
Report Date: 26-Feb-04

Client Project: Hartford Working Group 15-03095.14
Client Sample ID: HROST-1 GW 22204
Collection Date: 2/22/04 2:05:00 PM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 METHODS 5030 / 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Methyl tert-butyl ether	NELAP	100		ND	µg/L	50	2/25/04 2:05:00 PM	RLH
Benzene	NELAP	100		1370	µg/L	50	2/25/04 2:05:00 PM	RLH
Toluene	NELAP	250		ND	µg/L	50	2/25/04 2:05:00 PM	RLH
Ethylbenzene	NELAP	250		ND	µg/L	50	2/25/04 2:05:00 PM	RLH
Xylenes, Total	NELAP	250		ND	µg/L	50	2/25/04 2:05:00 PM	RLH
Surr: 1,2-Dichloroethane-d4		70-136		116	%REC	50	2/25/04 2:05:00 PM	RLH
Surr: 4-Bromofluorobenzene		72-125		92.4	%REC	50	2/25/04 2:05:00 PM	RLH
Surr: Dibromofluoromethane		67-138		109	%REC	50	2/25/04 2:05:00 PM	RLH
Surr: Toluene-d8		80-124		100	%REC	50	2/25/04 2:05:00 PM	RLH

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04020565
Lab ID: 04020565-002
Report Date: 26-Feb-04

Client Project: Hartford Working Group 15-03095.14
Client Sample ID: HROST-13 GW 22204
Collection Date: 2/22/04 2:30:00 PM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 METHODS 5030 / 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Methyl tert-butyl ether	NELAP	200		**ND**	µg/L	100	2/25/04 2:36:00 PM	RLH
Benzene	NELAP	200		**15800**	µg/L	100	2/25/04 2:36:00 PM	RLH
Toluene	NELAP	500		**18100**	µg/L	100	2/25/04 2:36:00 PM	RLH
Ethylbenzene	NELAP	500		**2420**	µg/L	100	2/25/04 2:36:00 PM	RLH
Xylenes, Total	NELAP	500		**11100**	µg/L	100	2/25/04 2:36:00 PM	RLH
Surr: 1,2-Dichloroethane-d4		70-136		**120**	%REC	100	2/25/04 2:36:00 PM	RLH
Surr: 4-Bromofluorobenzene		72-125		**92.2**	%REC	100	2/25/04 2:36:00 PM	RLH
Surr: Dibromofluoromethane		67-138		**110**	%REC	100	2/25/04 2:36:00 PM	RLH
Surr: Toluene-d8		80-124		**99.0**	%REC	100	2/25/04 2:36:00 PM	RLH

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Clayton Group Services	**Client Project:**	Hartford Working Group 15-03095.14
WorkOrder:	04020565	**Client Sample ID:**	HROST-60 GW 22204
Lab ID:	04020565-003	**Collection Date:**	2/22/04 3:15:00 PM
Report Date:	26-Feb-04	**Matrix:**	AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 METHODS 5030 / 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Methyl tert-butyl ether	NELAP	2.00		**ND**	µg/L	1	2/24/04 9:39:00 PM	RLH
Benzene	NELAP	2.00	J	**0.92**	µg/L	1	2/24/04 9:39:00 PM	RLH
Toluene	NELAP	5.00		**6.62**	µg/L	1	2/24/04 9:39:00 PM	RLH
Ethylbenzene	NELAP	5.00	J	**4.0**	µg/L	1	2/24/04 9:39:00 PM	RLH
Xylenes, Total	NELAP	5.00		**18.3**	µg/L	1	2/24/04 9:39:00 PM	RLH
Surr: 1,2-Dichloroethane-d4		70-136		**112**	%REC	1	2/24/04 9:39:00 PM	RLH
Surr: 4-Bromofluorobenzene		72-125		**96.0**	%REC	1	2/24/04 9:39:00 PM	RLH
Surr: Dibromofluoromethane		67-138		**109**	%REC	1	2/24/04 9:39:00 PM	RLH
Surr: Toluene-d8		80-124		**96.4**	%REC	1	2/24/04 9:39:00 PM	RLH

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04020565
Lab ID: 04020565-004
Report Date: 26-Feb-04

Client Project: Hartford Working Group 15-03095.14
Client Sample ID: HROST-57 GW 22204
Collection Date: 2/22/04 3:45:00 PM
Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
SW-846 METHODS 5030 / 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Methyl tert-butyl ether	NELAP	2.00		ND	µg/L	1	2/24/04 10:39:00 PM	RLH
Benzene	NELAP	2.00		14.0	µg/L	1	2/24/04 10:39:00 PM	RLH
Toluene	NELAP	5.00		149	µg/L	1	2/24/04 10:39:00 PM	RLH
Ethylbenzene	NELAP	5.00		65.4	µg/L	1	2/24/04 10:39:00 PM	RLH
Xylenes, Total	NELAP	5.00		326	µg/L	1	2/24/04 10:39:00 PM	RLH
Surr: 1,2-Dichloroethane-d4		70-136		113	%REC	1	2/24/04 10:39:00 PM	RLH
Surr: 4-Bromofluorobenzene		72-125		98.8	%REC	1	2/24/04 10:39:00 PM	RLH
Surr: Dibromofluoromethane		67-138		111	%REC	1	2/24/04 10:39:00 PM	RLH
Surr: Toluene-d8		80-124		99.6	%REC	1	2/24/04 10:39:00 PM	RLH

APPENDIX D

Boring Logs

APPENDIX D-1

ENSR Boring Logs

ENSR	*Client:*	HARTFORD WORKING GROUP	***BORING ID:*** PMP-18
	Project Number:	01005-093-350	
	Boring Location:	Hartford Community Center	
		South side of building; approximately 1 foot east of VMP-22	*Sheet:* 1 of 1
	Survey Coordinates:	N 791449.69 E 2316707.72	*Date/Time Started:* 07/15/04 8:30
	Drilling Method:	Geoprobe	
Logged By: P. Elliott	*Checked By:*	J. Petruccione	*Date/Time Finished:* 07/15/04 11:00
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather:*	Sunny, hot, mid-90s, v. humid	
Drillers: J. Barker and S. Howe	*Drilling Equip.:*	Simco 2800 HS/HT	

Depth (feet)	Surveyed Elevation (431.53 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
					PID / FID	**TOPSOIL** brown, sandy clay	
1	430.53	1 (0-3)	ACETATE LINER			**FILL**	
2	429.53				44.5 / 10.1	Loose, limestone gravel with medium-brown, clay	
3	428.53			12			
4	427.53	2 (3-6)	ACETATE LINER			brick fragments present	
5	426.53			24	52.2 / 65.2		
6	425.53					**Silty CLAY (CL)** Stiff, medium brown mottled, silty clay, trace fine grained sand, moist	
7	424.53	3 (6-9)	ACETATE LINER				
8	423.53			30	25.7 / 50.1		**PMP-18** GORE SORBER # 450904 installed from 8.5 to 9.0 feet bgs
9	422.53					grades to light brown, gray mottled, oxidation noted	
10	421.53	4 (9-12)	ACETATE LINER			color changes to olive green/gray	
11	420.53			30	19.1 / 58.1		
12	419.53					color changes to olive green with oxidation noted	
13	418.53	5 (12-15)	ACETATE LINER				
14	417.53			24		**Clayey SILT (ML-CL)** Stiff, dark gray-brown, silty clay with oxidation noted, moist	**PMP-18 (13.5-15.0)** collected for Geotech analysis
15	416.53						
16		End of Boring at 15 feet below ground surface					
17							
18							
19							
20							

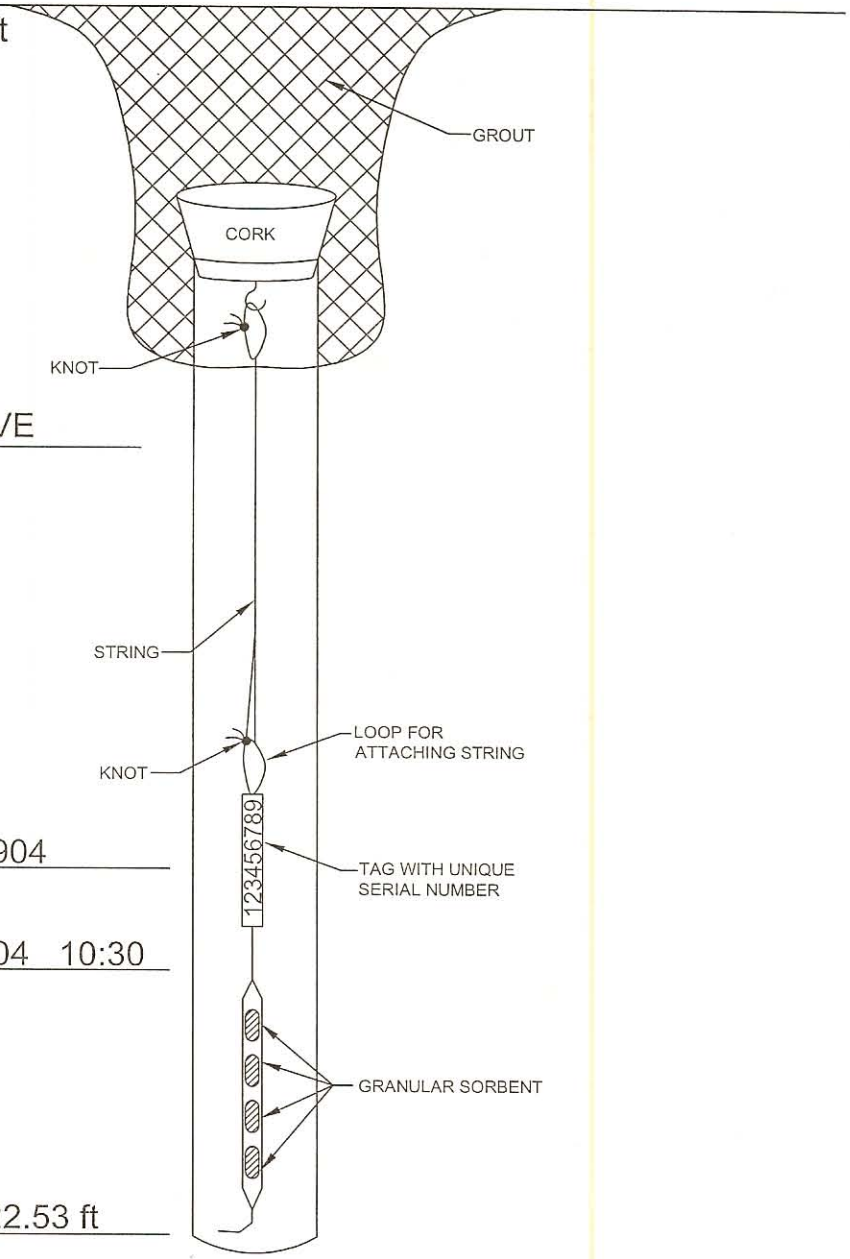
NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector [* units relative to isobutylene span gas in parts per million (ppm)]
FID = Flame Ionization Detector [+ units relative to methane span gas in parts per million (ppm)]

LAB ANALYSIS:
SOIL: % moisture, bulk density, porosity, specific gravity, wet fines sieve
GROUNDWATER: none submitted

GROUND SURFACE

SURVEY ELEVATION 431.53 ft

PMP - 18



LOCATION: 715 N. DELMAR AVE
HARTFORD, IL

GORE SORBER #: 450904

INSTALLED: 7/15/04 10:30

ELEVATION: 422.53 ft

01005-093_GORE-SORBER MODULE.dwg

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PMP-18
GORE-SORBER MODULE
INSTALLATION SCHEMATIC
HARTFORD, IL

NOT TO SCALE

DRAWN BY:	JG	DATE:	06/17/04	PROJECT No.:	
APPROVED BY:	JP	REVISED:	7/29/04	01005-093	

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ENSR	*Client:*	HARTFORD WORKING GROUP	***BORING ID:*** PMP-21
	Project Number:	01005-093-350	
	Boring Location:	Hartford Community Center	
		Arbor Street, 2 feet west of VMP-1	*Sheet:* 1 of 1
	Survey Coordinates:	N 791371.39 E 2316770.07	*Date/Time Started:* 07/15/04 13:00
	Drilling Method:	Hand Auger and Geoprobe	
Logged By: P. Elliott	*Checked By:*	J. Petruccione	*Date/Time Finished:* 07/15/04 16:00
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather:*	Sunny, hot, mid-90s, v. humid	
Drillers: J. Barker and S. Howe	*Drilling Equip.:*	Simco 2800 HS/HT	

Depth (feet)	Surveyed Elevation (431.53 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
					PID / FID	**BITUMINOUS ASPHALT (Roadway)**	
1	430.17	1 (0-5)	HAND AUGER			**FILL** Loose, limestone gravel with medium-brown, clay	
2	429.17				44.5 / 10.1		
3	428.17						
4	427.17						
5	426.17				52.2 / 65.2		
6	425.17	2 (5-10)	HAND AUGER			**Silty CLAY (CL)** Stiff, medium brown mottled, silty clay, trace fine grained sand, moist	
7	424.17						
8	423.17				0.4 / 3.4		
9	422.17					grades to light brown, gray mottled, oxidation noted	
10	421.17					color changes to olive green/gray	
11	420.17	3 (10-13)	ACETATE LINER				
12	419.17			36	19.1 / 58.1	color changes to olive green, oxidation noted	**PMP-21** GORE SORBER # 450905 installed from 12.0 to 12.5 feet bgs
13	418.17						
14						End of Boring at 13.0 feet below ground surface	
15							
16							
17							
18							
19							
20							

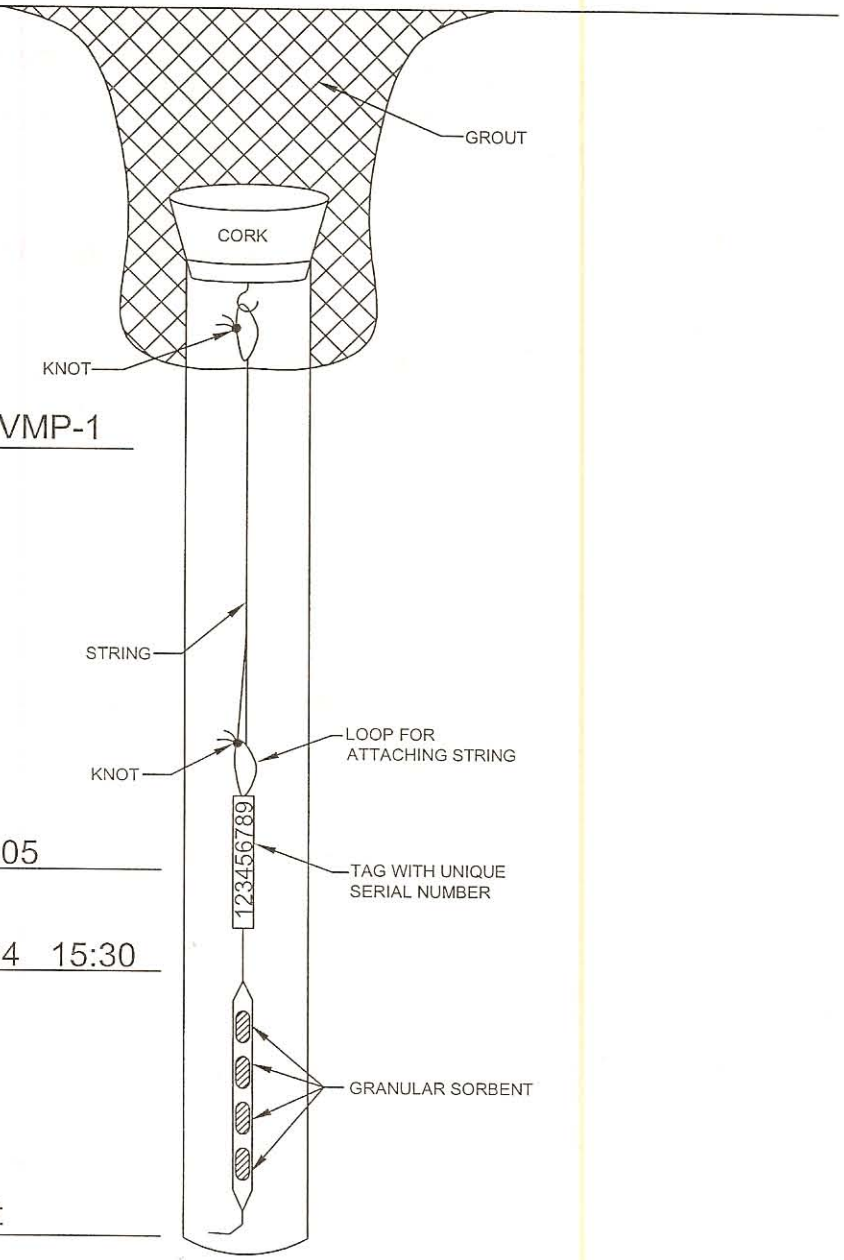
NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector [* units relative to isobutylene span gas in parts per million (ppm)]
FID = Flame Ionization Detector [+ units relative to methane span gas in parts per million (ppm)]

LAB ANALYSIS:
SOIL: none submitted
GROUNDWATER: none submitted

GROUND SURFACE

SURVEY ELEVATION 431.17 ft

PMP - 21



LOCATION: ARBOR ST. NEAR VMP-1
HARTFORD, IL

GORE SORBER #: 450905

INSTALLED: 7/15/04 15:30

ELEVATION: 418.67 ft

01005-093_GORE-SORBER MODULE.dwg

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PMP-21
GORE-SORBER MODULE
INSTALLATION SCHEMATIC
HARTFORD, IL

NOT TO SCALE

DRAWN BY:	JG	DATE:	06/17/04	PROJECT No.:
APPROVED BY:	JP	REVISED:	7/29/04	01005-093

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ENSR	*Client:*	HARTFORD WORKING GROUP	***BORING ID:*** VMP-1
	Project Number:	01005-093-350	
	Boring Location:	Hartford Community Center	
		East end of Arbor Street	*Sheet:* 1 of 2
	Survey Coordinates:	N 791371.39 E 2316770.07	*Date/Time Started:* 03/16/04
	Drilling Method:	Hollow Stem Auger	
Logged By: J. Mallison	*Checked By:*	J. Petruccione	*Date/Time Finished:* 03/16/04
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather:*		
Drillers: J. Barker and S. Howe	*Drilling Equip.:*	Simco 2800 HS/HT	

Depth (feet)	Surveyed Elevation (431.17 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	430.17	1 (0-2)	SPLIT SPOON		PID / FID	**BITUMINOUS ASPHALT (Roadway)**	
						Gravel and base	
2	429.17				5.5 / 1086	**Clayey SILT (CL)** olive green, clayey silt, trace sand	
3	428.17	2 (2-4)	SPLIT SPOON		68 / 6300	grades to dark olive to black with weathered hydrocarbon odor	
4	427.17						
5	426.17	3 (4-6)	SPLIT SPOON		18 / 1800	less odor	**VMP-1S** SHALLOW VAPOR PROBE installed from 5.2 to 6.0 ft bgs
6	425.17					increasing sand content	
7	424.17	4 (6-8)	SPLIT SPOON		9 / 1600	**CLAY (CL)** medium green, mottled clay, trace sand, slight weathered hydrocarbon odor, less plastic	
8	423.17						
9	422.17	5 (8-10)	SPLIT SPOON		10 / 1500		
10	421.17					color changes to gray and plastic	
11	420.17	6 (10-12)	SPLIT SPOON		22 / 2000	**Silty CLAY (CL)** mottled green silty clay, less plastic	**VMP-1D** DEEP VAPOR PROBE installed from 11.8 to 12.6 ft bgs
12	419.17						
13	418.17	7 (12-14)	SPLIT SPOON		11 / 650	**Clay (CL)** Medium green to dark olive green clay, some silt, hydrocarbon odor, moist	
14	417.17					dark olive green trace silt and sand, plastic	
15	416.17	8 (14-16)	SPLIT SPOON		6.5 / 363	**Silty CLAY (CL)** Dark olive green silty clay, moist to saturated some strong hydrocarbon odor from 15 - 16 ft bgs	
16	415.17						
17	414.17	9 (16-18)	SPLIT SPOON		52.7 / 620	**Clay (CL)** Dark olive green clay, plastic, strong hydrocarbon odor	
18	413.17						
19	412.17	10 (18-20)	SPLIT SPOON		57.3 / 2300	same, some silt, saturated	
20	411.17					**Silty CLAY (CL)** Dark olive green silty clay, less moisture	

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)]

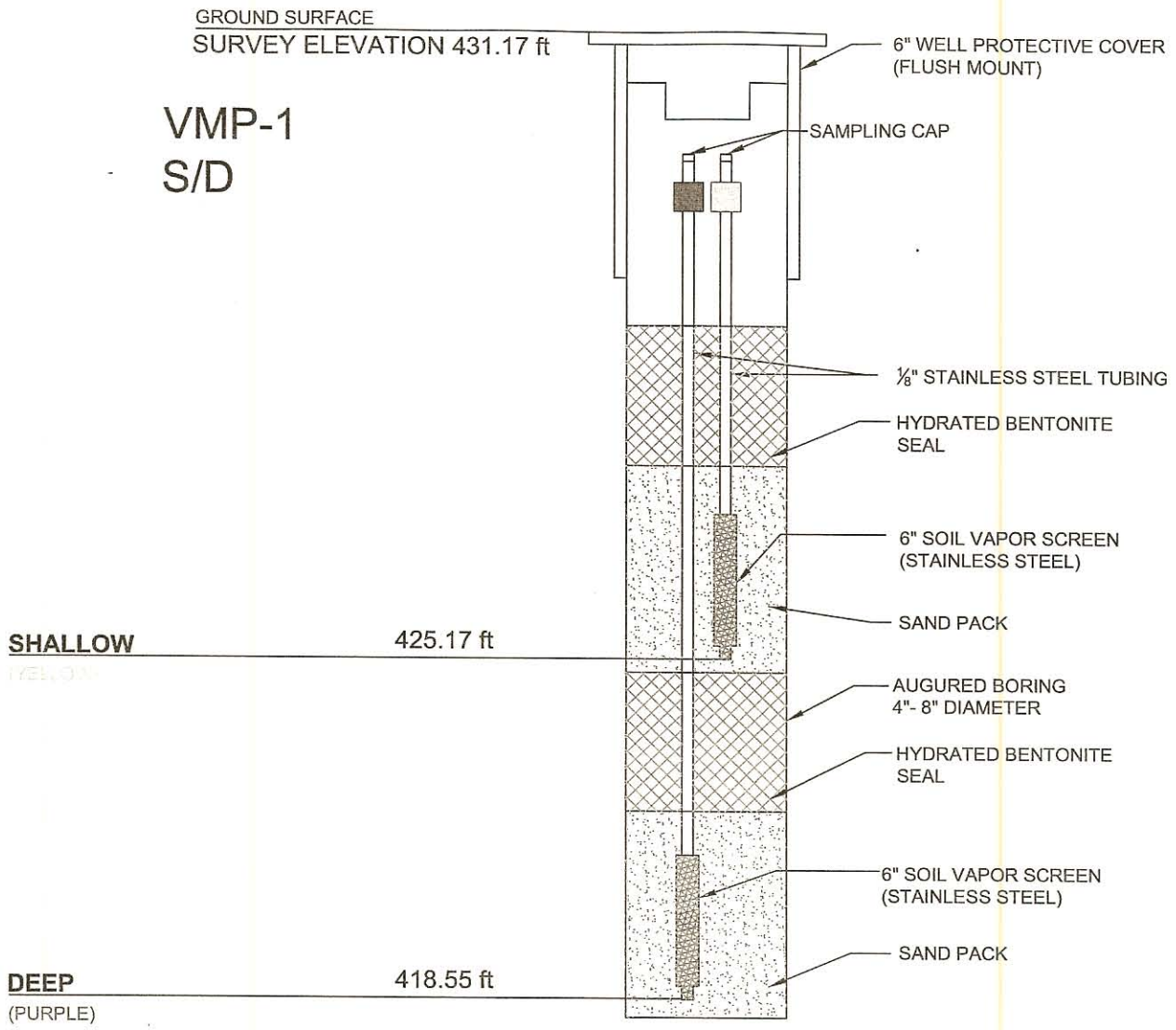
LAB ANALYSIS:
SOIL: none submitted
GROUNDWATER: none submitted

ENSR	*Client:*	HARTFORD WORKING GROUP	***BORING ID:*** VMP-1
	Project Number:	01005-093-350	
	Boring Location:	Hartford Community Center	
		East end of Arbor Street	*Sheet:* 2
	Survey Coordinates:	N 791371.39 E 2316770.07	*Date/Time Started:* 03/16/04
	Drilling Method:	Hollow Stem Auger	
Logged By: J. Mallison	*Checked By:*	J. Petruccione	*Date/Time Finished:* 03/16/04
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather:*		
Drillers: J. Barker and S. Howe	*Drilling Equip.:*	Simco 2800 HS/HT	

Depth (feet)	Surveyed Elevation (431.17 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
21	410.17	11 (20-22)	SPLIT SPOON		PID / FID	**Silty CLAY (CL)** Dark olive green silty clay, less moisture	
22	409.17						
23	408.17	12 (22-24)	SPLIT SPOON				
24	407.17						
25						End of Boring at 24.0 feet below ground surface	
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
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)]

LAB ANALYSIS:
SOIL: none submitted
GROUNDWATER: none submitted



NOTES: * DEPTH OF BOREHOLE AND PLACEMENT OF VAPOR SCREENS DEPEND ON SUBSURFACE CONDITIONS.
* ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL (AMSL).

VMP-1
SOIL VAPOR MONITORING PROBE
HARTFORD WORKING GROUP
HARTFORD, IL

NOT TO SCALE

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DRAWN BY:	JG	DATE:	02/19/04	PROJECT No.:	
APPROVED BY:	PE	REVISED:	09/16/04		01005-093-350

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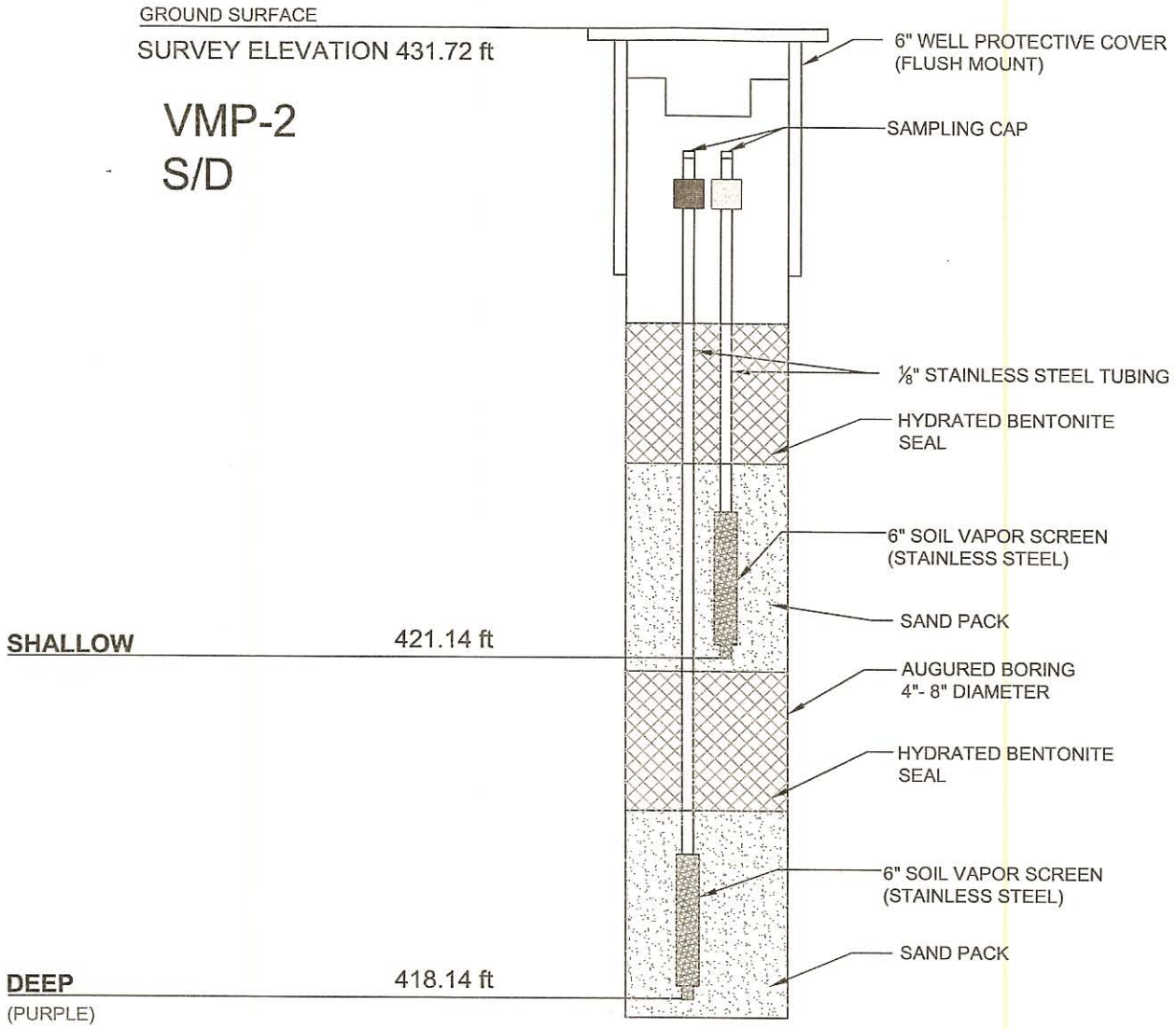
ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** **VMP-2**
	Project Number:	01005-093-350	
	Boring Location:	Hartford Community Center	
		Arbor Street	*Sheet:* 1 of 1
	Survey Coordinates:	N 791370.57 E 2316636.47	*Date/Time Started:* 03/16/04
	Drilling Method:	Hollow Stem Auger	
Logged By: J. Mallison	*Checked By:*	J. Petruccione	*Date/Time Finished:* 03/16/04
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather:*		
Drillers: J. Barker and S. Howe	*Drilling Equip.:*	Simco 2800 HS/HT	

Depth (feet)	Surveyed Elevation (431.17 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	430.72	1 (0-2)	SPLIT SPOON		PID / FID	**BITUMINOUS ASPHALT (Roadway)** Gravel and base, tan/buff color, sewer odor	
2	429.72				3.5 / 200	**FILL** Dark olive green to black clay, trace sand and gravel, cinders, wood	
3	428.72	2 (2-4)	SPLIT SPOON		27 / 1300	fragments, sewer odor trace to some silt some silt to silty	
4	427.72						
5	426.72	3 (4-6)	SPLIT SPOON		13.8 / 930		
6	425.72						
7	424.72	4 (6-8)	SPLIT SPOON		3.1 / 600	**CLAY (CL)** Medium olive green clay, trace sand and silt, sewer odor	
8	423.72					more sand/silt with depth	
9	422.72	5 (8-10)	SPLIT SPOON		4.2 / 600		
10	421.72						**VMP-2S** SHALLOW VAPOR PROBE installed from 9.8 to 10.6 ft bgs
11	420.72	6 (10-12)	SPLIT SPOON		4.4 / 750	same, silty weathered hydrocarbon odor	
12	419.72						
13	418.72	7 (12-14)	SPLIT SPOON		18.3 / 3200	**Clayey SILT (ML)** Olive gray clayey silt, weathered hydrocarbon odor	**VMP-2D** DEEP VAPOR PROBE installed from 12.7 to 13.6 ft bgs
14	417.72					trace clay	
15	416.72	8 (14-15)	SPLIT SPOON		7.8 / 650		
16						End of Boring at 15.0 feet below ground surface	
17							
18							
19							
20							

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



NOTES: * DEPTH OF BOREHOLE AND PLACEMENT OF VAPOR SCREENS DEPEND ON SUBSURFACE CONDITIONS.
* ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL (AMSL).

VMP-2
SOIL VAPOR MONITORING PROBE
HARTFORD WORKING GROUP
HARTFORD, IL

NOT TO SCALE

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DRAWN BY:	JG	DATE:	02/19/04	PROJECT No.:	
APPROVED BY:	PE	REVISED:	09/16/04		01005-093-350

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ENSR	*Client:*	HARTFORD WORKING GROUP	***BORING ID:*** VMP-3
	Project Number:	01005-093-350	
	Boring Location:	Hartford Community Center	
		West end of Arbor Street	*Sheet:* 1 of 1
	Survey Coordinates:	N 791376.40 E 2316474.92	*Date/Time Started:* 03/16/04
	Drilling Method:	Hollow Stem Auger	
Logged By: J. Mallison	*Checked By:*	J. Petruccione	*Date/Time Finished:* 03/16/04
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather:*		
Drillers: J. Barker and S. Howe	*Drilling Equip.:*	Simco 2800 HS/HT	

Depth (feet)	Surveyed Elevation (431.17 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	429.95	1 (0-2)	SPLIT SPOON		PID / FID	**BITUMINOUS ASPHALT (Roadway)**	
						Gravel base, tan/buff color	
2	428.95				0.4 / 2.6	**FILL** Medium gray to brown silty clay, trace sand (fill) hard, plastic, sewer odor	
3	427.95	2 (2-4)	SPLIT SPOON		3.7 / 320		
4	426.95					less silt and sand with depth, slight odor	
5	425.95	3 (4-6)	SPLIT SPOON		1.3 / 17		
6	424.95						
						SAND (SP)	
7	423.95	4 (6-8)	SPLIT SPOON		2.4 / 340	**Silty CLAY (SC)** Brown to dark brown silty clay, trace to some fine sand, very plastic	
8	422.95						
9	421.95	5 (8-10)	SPLIT SPOON		11.9 / 345	**CLAY (CL)** Brown mottled clay, some silt to silty oxidation noted	
10	420.95						
11	419.95	6 (10-12)	SPLIT SPOON		10.1 / 270	**Silty CLAY (SC)** Brown mottled, silty clay, trace sand, oxidation noted	**VMP-3** VAPOR PROBE installed from 10.7 to 11.5 ft bgs
12	418.95						
13	417.95	7 (12-14)	SPLIT SPOON		23.1 / 1037	**Clayey SILT (ML)** Brown mottled, clayey silt, trace sand, oxidation noted	
14	416.95					**Silty CLAY (SC)** Dark green silty clay, saturated, strong petroleum odor	
15	415.95	8 (14-15)	SPLIT SPOON				
16						End of Boring at 15.0 feet below ground surface	
17							
18							
19							
20							

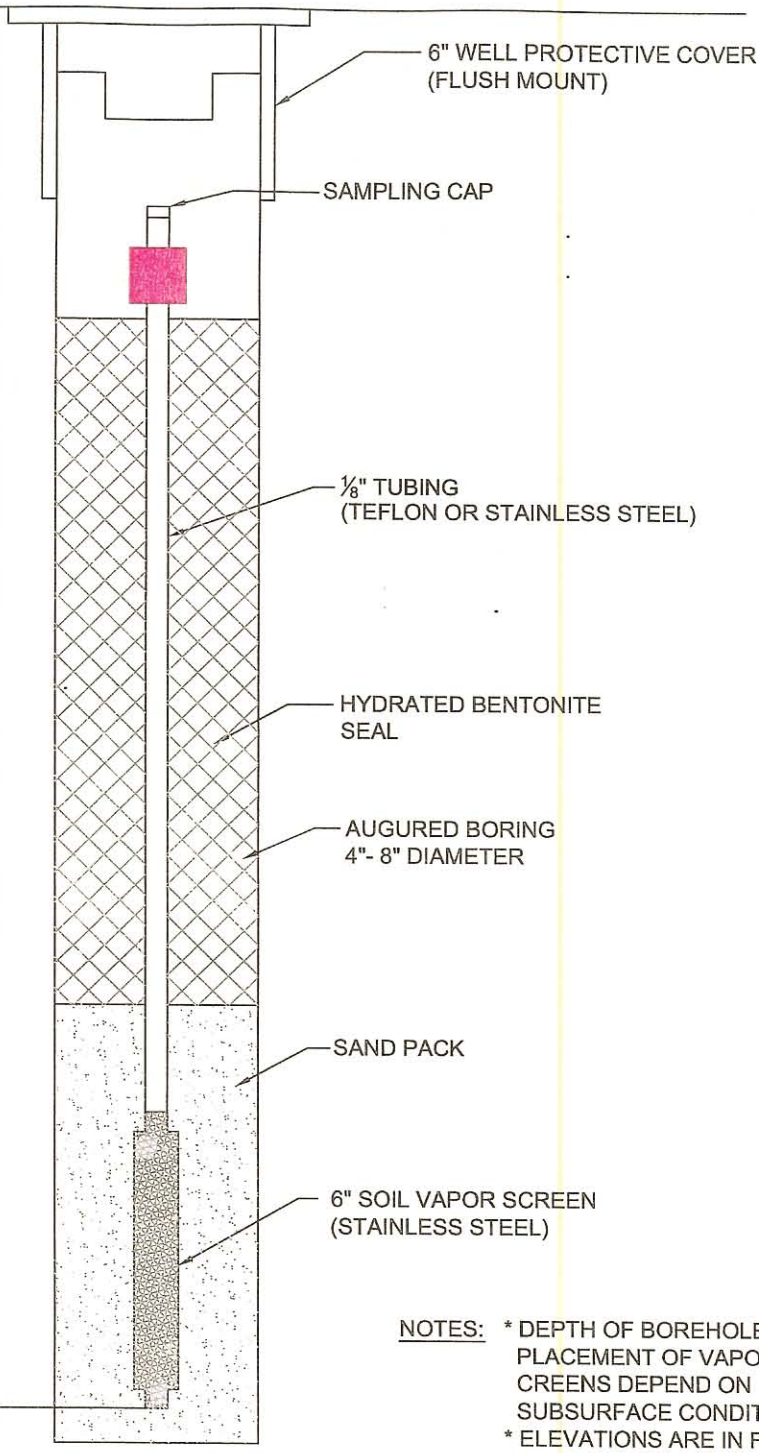
NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector [* units relative to isobutylene span gas in parts per million (ppm)]
FID = Flame Ionization Detector [+ units relative to methane span gas in parts per million (ppm)]

LAB ANALYSIS:
SOIL: none submitted
GROUNDWATER: none submitted

GROUND SURFACE

SURVEY ELEVATION 430.95 ft

VMP-3
M



MEDIUM 419.45 ft
(RED)

NOTES:
* DEPTH OF BOREHOLE AND PLACEMENT OF VAPOR CREENS DEPEND ON SUBSURFACE CONDITIONS.
* ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL (AMSL).

VMP-3
SOIL VAPOR MONITORING PROBE
HARTFORD WORKING GROUP
HARTFORD, IL

NOT TO SCALE

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DRAWN BY:	JG	DATE:	02/19/04	PROJECT No.:
APPROVED BY:	PE	REVISED:	09/16/04	01005-093-350

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ENSR	Client:	HARTFORD WORKING GROUP	**BORING ID:** VMP-6
	Project Number:	01005-093-350	
	Boring Location:	Hartford Community Center	
		56 ft W and 22 ft N of NW Building Corner	Sheet: 1 of 2
	Survey Coordinates:	N 791571.23 E 2316618.02	Date/Time Started: 03/23/04
	Drilling Method:	Hollow Stem Auger	
Logged By: J. Mallison	Checked By:	J. Petruccione	Date/Time Finished: 03/23/04
Drilling Co.: MRK Environmental Exploration, Inc.	Weather:		
Drillers: J. Barker and S. Howe	Drilling Equip.:	Simco 2800 HS/HT	

Depth (feet)	Surveyed Elevation (431.17 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	430.04	1 (0-2)	SPLIT SPOON		PID / FID	**TOPSOIL** brown, sandy clay	
						CLAY (CL) Brown to black clay, trace sand	
2	429.04				5.3 / 4.2		
3	428.04	2 (2-4)	SPLIT SPOON		7.2	**SAND (SC)** Brown to dark brown, coarse grained sand, some clay, trace gravel	
4	427.04				3.6	**Silty CLAY (CL)** Brown silty clay, semi-plastic, moist	
5	426.04	3 (4-6)	SPLIT SPOON		7.1 / 4.2	Brown grading to black, plastic (increasing with depth), dry	
6	425.04						
7	424.04	4 (6-8)	SPLIT SPOON		6.3 / 690		
8	423.04						
9	422.04	5 (8-10)	SPLIT SPOON		15.4 / 1300		
10	421.04					color change to brown and black mottled, oxidation noted, petroleum odor	
11	420.04	6 (10-12)	SPLIT SPOON		63.3 / 2300	**Clayey SILT (ML)** Medium olive green with rust mottles, moist	**VMP-6S** SHALLOW VAPOR PROBE installed from 10.7 to 11.5 ft bgs
12	419.04						
13	418.04	7 (12-14)	SPLIT SPOON		73 / 6000		
14	417.04						
15	416.04	8 (14-16)	SPLIT SPOON		69 / 4500	staining present	
16	415.04					saturated, staining present in more silty horizons	
17	414.04	9 (16-18)	SPLIT SPOON		34 / 1400	**SAND, SILT SEAM (SM)** med. olive gray to black, strong hydrocarbon odor	**VMP-6M** MEDIUM VAPOR PROBE installed from 16.9 to 17.7 ft bgs
18	413.04					**CLAY (CL)** Olive green / dark gray mottled clay, staining and oxidation noted	
19	412.04	10 (18-20)	SPLIT SPOON		63 / 3600	interlayered with stained, silt seams, saturated, strong hydrocarbon odor	
20	411.04						

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)]

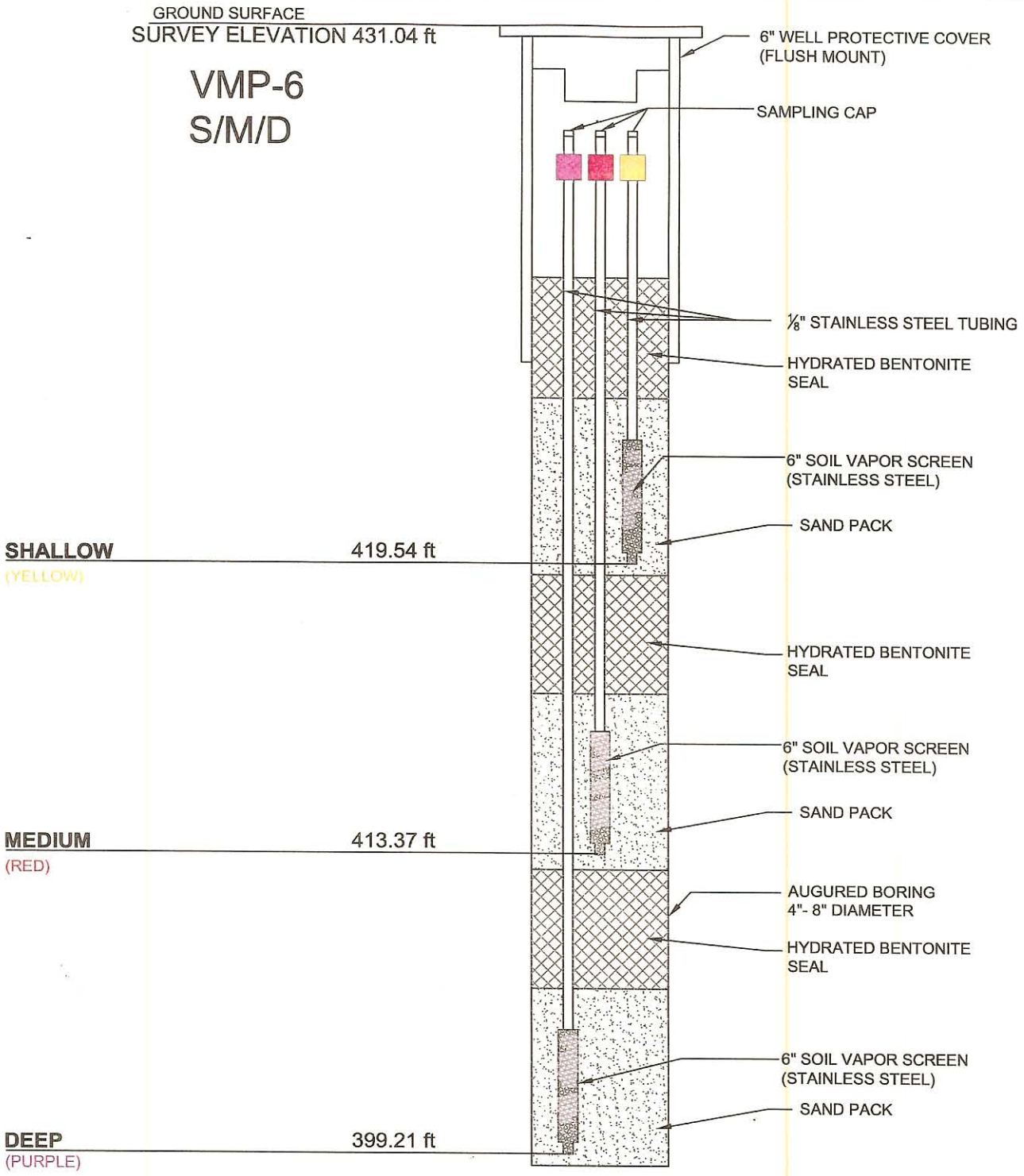
LAB ANALYSIS:
SOIL: none submitted
GROUNDWATER: none submitted

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** VMP-6
	Project Number:	01005-093-350	
	Boring Location:	Hartford Community Center	
		56 ft W and 22 ft N of NW Building Corner	*Sheet:* 2
	Survey Coordinates:	N 791571.23 E 2316618.02	*Date/Time Started:* 03/23/04
	Drilling Method:	Hollow Stem Auger	
Logged By: J. Mallison	*Checked By:*	J. Petruccione	*Date/Time Finished:* 03/23/04
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather:*		
Drillers: J. Barker and S. Howe	*Drilling Equip.:*	Simco 2800 HS/HT	

Depth (feet)	Surveyed Elevation (431.17 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
21	410.04	11 (20-22)	SPLIT SPOON		PID / FID	**(Con't) CLAY (CL)** Medium olive green clay, plastic, minor staining, dry decreased odor with depth	
22	409.04				50 / 1800		
23	408.04	12 (22-24)	SPLIT SPOON		49 / 1300	no odor present	
24	407.04						
25	406.04	13 (24-26)	SPLIT SPOON		38 / 2400		
26	405.04					**Clayey SILT (CL/ML)** Dark olive gray clayey silt, saturated, hydrocarbon odor	
27	404.04	14 (26-28)	SPLIT SPOON		75 / 2600		
28	403.04					**CLAY (CL)** Dark olive green to gray clay, some silt, dry, oxidation noted	
29	402.04	15 (28-30)	SPLIT SPOON		30 / 1400	**Clayey SAND (SC)** gray clayey sand, saturated	
30	401.04					**CLAY (CL)** Dark olive green clay, plastic	
31	400.04	16 (30-32)	SPLIT SPOON		300 / 5000		**VMP-6D** DEEP VAPOR PROBE installed from 31.04 to 31.8 ft bgs
32	399.04						
33	398.04	17 (32-33)	SPLIT SPOON			**SAND (SP)** Light brown, medium to fine grained sand, dry, strong hydrocarbon odor	
34						End of Boring at 33.0 feet below ground surface	
35							
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)]

LAB ANALYSIS:
SOIL: none submitted
GROUNDWATER: none submitted



NOTES: * DEPTH OF BOREHOLE AND PLACEMENT OF VAPOR SCREENS DEPEND ON SUBSURFACE CONDITIONS.
* ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL (AMSL).

VMP-6
SOIL VAPOR MONITORING PROBE
HARTFORD WORKING GROUP
HARTFORD, IL

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DRAWN BY:	JG	DATE:	02/19/04	PROJECT No.:	
APPROVED BY:	PE	REVISED:	09/16/04	01005-093	

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ENSR	Client:	HARTFORD WORKING GROUP	BORING ID: VMP-7
	Project Number:	01005-093-350	
	Boring Location:	Hartford Community Center	
		West side of property	Sheet: 1 of 1
	Survey Coordinates:	N 791535.57 E 2316463.47	Date/Time Started: 03/23/04
	Drilling Method:	Hollow Stem Auger	
Logged By: J. Mallison	Checked By:	J. Petruccione	Date/Time Finished: 03/23/04
Drilling Co.: MRK Environmental Exploration, Inc.	Weather:		
Drillers: J. Barker and S. Howe	Drilling Equip.:	Simco 2800 HS/HT	

Depth (feet)	Surveyed Elevation (431.17 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	429.31	1 (0-2)	SPLIT SPOON		PID / FID	**TOPSOIL**	
2	428.31				1.4 / 3.6	**FILL** Brown clay, trace sand	
3	427.31	2 (2-4)	SPLIT SPOON		1.6 / 317		
4	426.31					**CLAY (CL)** Dark brown to gray massive clay, stiff, plastic, dry (CL)	
5	425.31	3 (4-6)	SPLIT SPOON		12.3 / 1400		
6	424.31						
7	423.31	4 (6-8)	SPLIT SPOON		28.1 / 2600	Color change to medium olive green with oxidation noted	
8	422.31						
9	421.31	5 (8-10)	SPLIT SPOON		75 / 3500	hydrocarbon odor	
10	420.31						
11	419.31	6 (10-12)	SPLIT SPOON		69 / 4000	**Clayey SILT (ML)** Gray clayey silt, interlayered with olive green clay, moist to saturated	**VMP-7** VAPOR PROBE installed from 10.5 to 11.3 ft bgs
	419.06					End of Boring at 11.5 feet below ground surface	
12							
13							
14							
15							
16							
17							
18							
19							
20							

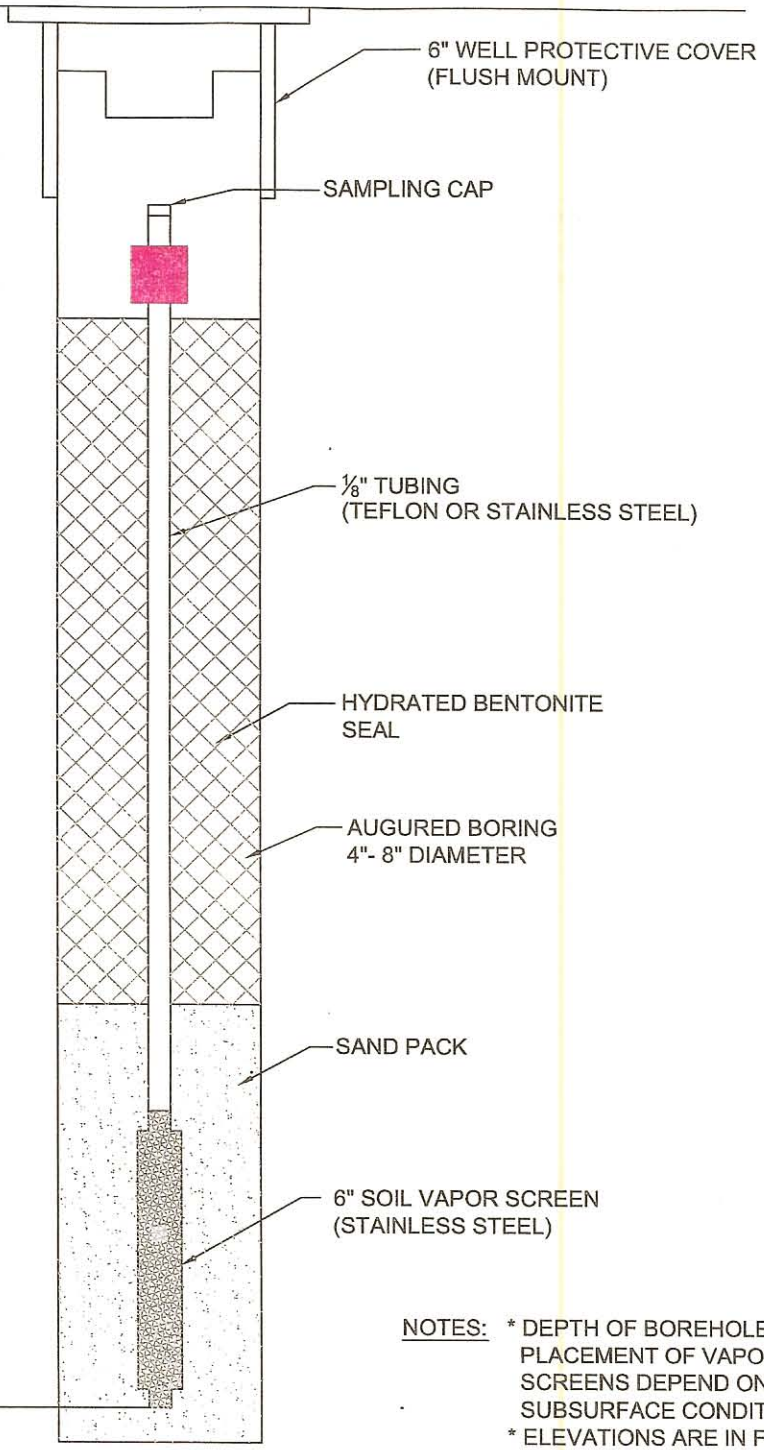
NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector [* units relative to isobutylene span gas in parts per million (ppm)]
FID = Flame Ionization Detector [+ units relative to methane span gas in parts per million (ppm)]

LAB ANALYSIS:
SOIL: none submitted
GROUNDWATER: none submitted

GROUND SURFACE

SURVEY ELEVATION 430.31 ft

VMP-7
M



MEDIUM 419.06 ft
(RED)

NOTES:
* DEPTH OF BOREHOLE AND PLACEMENT OF VAPOR SCREENS DEPEND ON SUBSURFACE CONDITIONS.
* ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL (AMSL).

VMP-7
SOIL VAPOR MONITORING PROBE
HARTFORD WORKING GROUP
HARTFORD, IL

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APPROVED BY:	PE	REVISED:	09/16/04	01005-093-350	

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ENSR	*Client:*	HARTFORD WORKING GROUP	***BORING ID:*** VMP-8
	Project Number:	01005-093-350	
	Boring Location:	Hartford Community Center	
		Southwest corner of property	*Sheet:* 1 of 1
	Survey Coordinates:	N 791443.77 E 2316457.80	*Date/Time Started:* 03/23/04
	Drilling Method:	Hollow Stem Auger	
Logged By: J. Mallison	*Checked By:*	J. Petruccione	*Date/Time Finished:* 03/23/04
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather:*		
Drillers: J. Barker and S. Howe	*Drilling Equip.:*	Simco 2800 HS/HT	

Depth (feet)	Surveyed Elevation (431.17 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	430.01	1 (0-2)	SPLIT SPOON		PID / FID	**TOPSOIL** Dark brown clay	
2	429.01				1.5 / 3.4	**FILL** Brown clay, trace sand	
3	428.01	2 (2-4)	SPLIT SPOON		1.6 / 3.8		
4	427.01					**CLAY (CL)** Dark brown to gray massive clay, stiff, plastic, dry	
5	426.01	3 (4-6)	SPLIT SPOON		1.6 / 21		**VMP-8** VAPOR PROBE installed from 5' 4-1/2" to 6' 2" ft bgs
6	425.01						
7						End of Boring at 6.25 feet below ground surface	
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

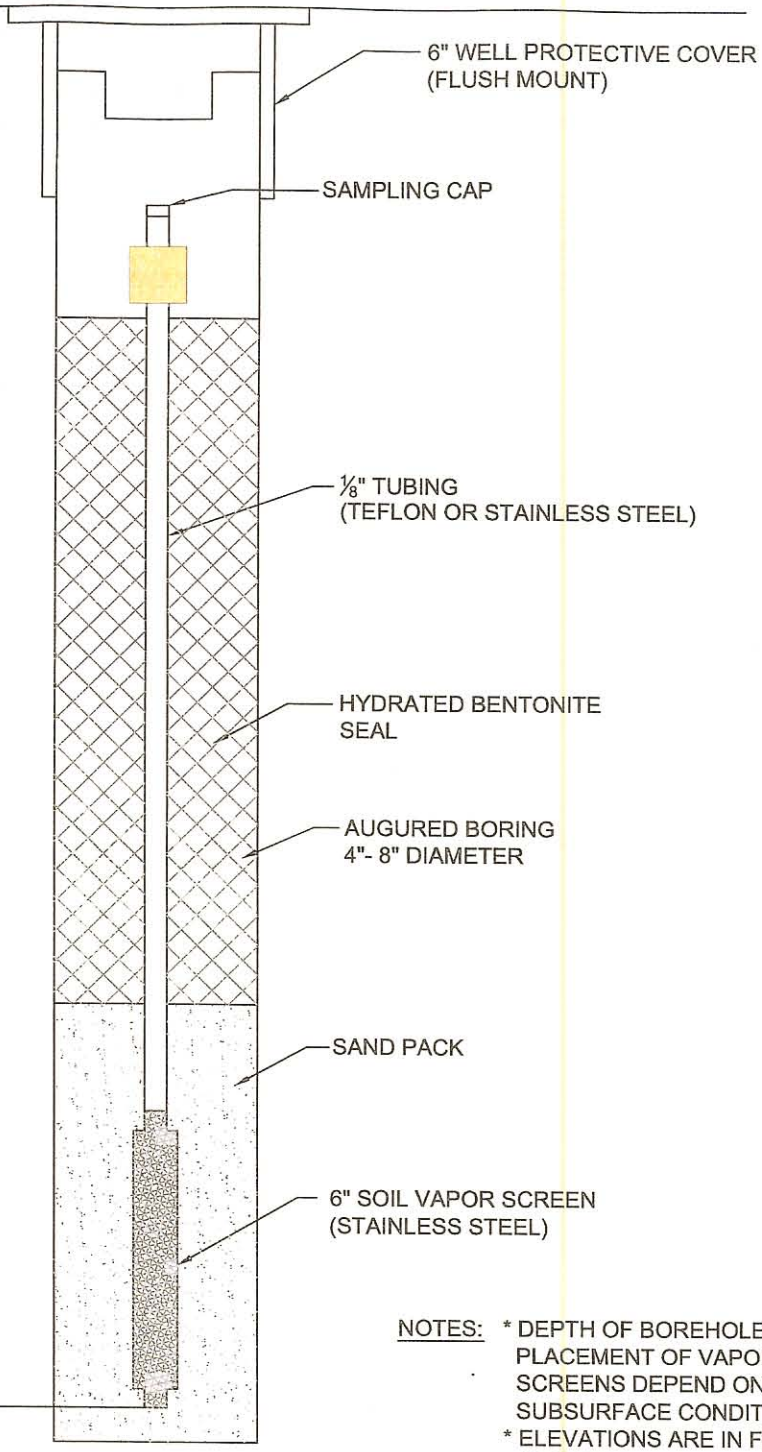
NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector [* units relative to isobutylene span gas in parts per million (ppm)]
FID = Flame Ionization Detector [+ units relative to methane span gas in parts per million (ppm)]

LAB ANALYSIS:
SOIL: none submitted
GROUNDWATER: none submitted

GROUND SURFACE

SURVEY ELEVATION 431.01 ft

VMP-8
S



SHALLOW 424.84 ft

(YELLOW)

NOTES:
* DEPTH OF BOREHOLE AND PLACEMENT OF VAPOR SCREENS DEPEND ON SUBSURFACE CONDITIONS.
* ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL (AMSL).

VMP-8
SOIL VAPOR MONITORING PROBE
HARTFORD WORKING GROUP
HARTFORD, IL

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DRAWN BY:	JG	DATE:	02/19/04	PROJECT No.:
APPROVED BY:	PE	REVISED:	09/16/04	01005-093-350

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ENSR	*Client:*	HARTFORD WORKING GROUP	***BORING ID:*** VMP-10
	Project Number:	01005-093-350	
	Boring Location:	Hartford Community Center	
		Near southeast building corner	*Sheet:* 1 of 1
	Survey Coordinates:	N 791494.28 E 2316797.52	*Date/Time Started:* 03/23/04
	Drilling Method:	Hollow Stem Auger	
Logged By: J. Mallison	*Checked By:*	J. Petruccione	*Date/Time Finished:* 03/23/04
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather:*		
Drillers: J. Barker and S. Howe	*Drilling Equip.:*	Simco 2800 HS/HT	

Depth (feet)	Surveyed Elevation (431.17 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	429.82	1 (0-2)	SPLIT SPOON		PID / FID	**TOPSOIL** Dark brown sandy clay	
2	428.82				1.3 / 4.3	**FILL** Dark brown clay, trace sand and gravel	
3	427.82	2 (2-4)	SPLIT SPOON		1.8 / 4.9		
4	426.82						
5	425.82	3 (4-6)	SPLIT SPOON		2.9 / 103		**VMP-10** VAPOR PROBE installed from 5.2 to 6.0 ft bgs
6	424.82					tree root	
7						End of Boring at 6.16 feet below ground surface	
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

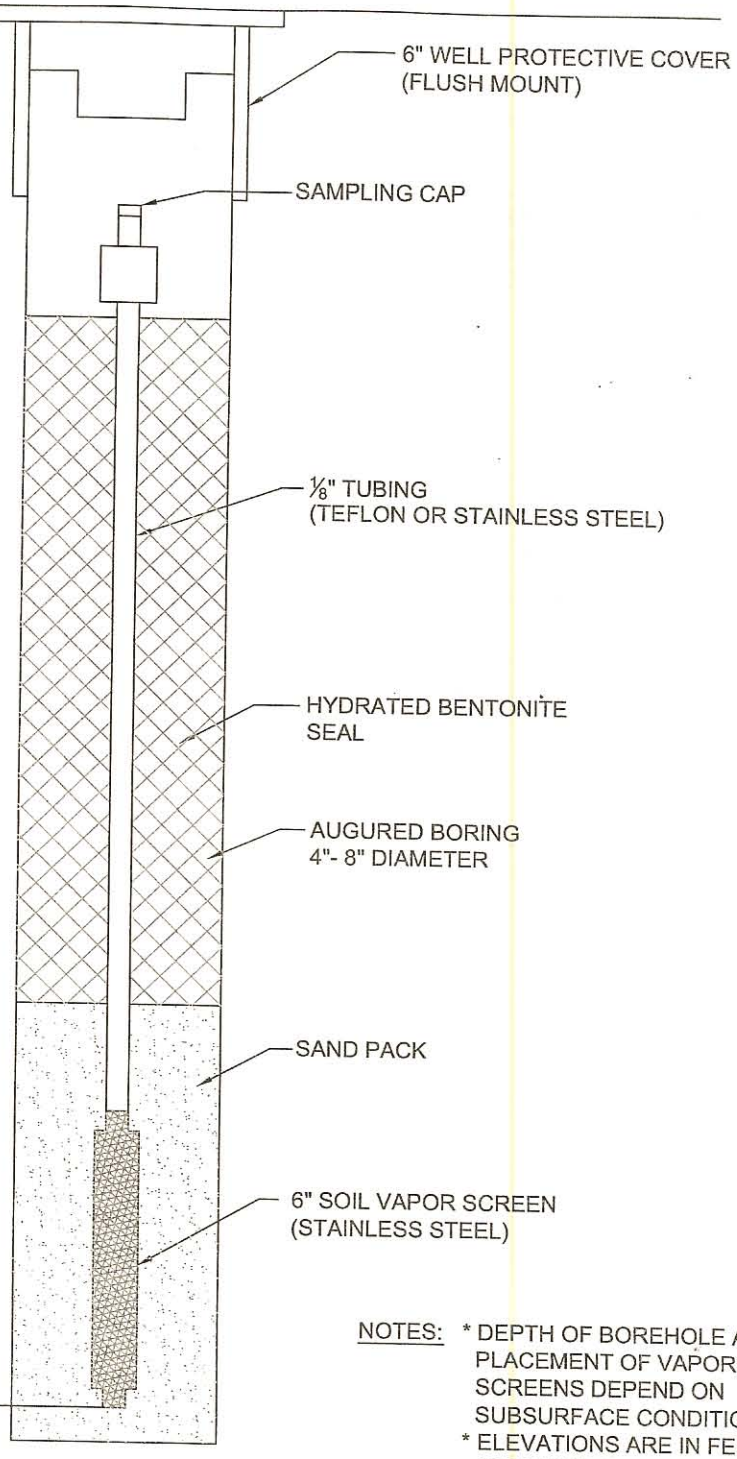
NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector [* units relative to isobutylene span gas in parts per million (ppm)]
FID = Flame Ionization Detector [+ units relative to methane span gas in parts per million (ppm)]

LAB ANALYSIS:
SOIL: none submitted
GROUNDWATER: none submitted

GROUND SURFACE

SURVEY ELEVATION 430.82 ft

VMP-10
VS



VERY SHALLOW 424.82 ft
(WHITE)

NOTES:
* DEPTH OF BOREHOLE AND PLACEMENT OF VAPOR SCREENS DEPEND ON SUBSURFACE CONDITIONS.
* ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL (AMSL).

VMP-10
SOIL VAPOR MONITORING PROBE
HARTFORD WORKING GROUP
HARTFORD, IL

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DRAWN BY:	JG	DATE:	02/19/04	PROJECT No.:	
APPROVED BY:	PE	REVISED:	09/16/04	01005-093-350	

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ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** **VMP-11**
	Project Number:	01005-093-350	
	Boring Location:	Hartford Community Center	
		Near southwest building corner	*Sheet:* 1 of 1
	Survey Coordinates:	N 791466.57 E 2316713.06	*Date/Time Started:* 03/23/04
	Drilling Method:	Hollow Stem Auger	
Logged By: J. Mallison	*Checked By:*	J. Petruccione	*Date/Time Finished:* 03/23/04
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather:*		
Drillers: J. Barker and S. Howe	*Drilling Equip.:*	Simco 2800 HS/HT	

Depth (feet)	Surveyed Elevation (431.17 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	430.47	1 (0-2)	SPLIT SPOON		PID / FID	**TOPSOIL** Brown silty clay	
2	429.47					**FILL** Interlayered brown and black clay, trace sand and gravel	
3	428.47	2 (2-4)	SPLIT SPOON				
4	427.47						
5	426.47	3 (4-5)	SPLIT SPOON				**VMP-11** VAPOR PROBE installed from 4.0 to 4.8 ft bgs
6	426.30					End of Boring at 5.2 feet below ground surface	
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

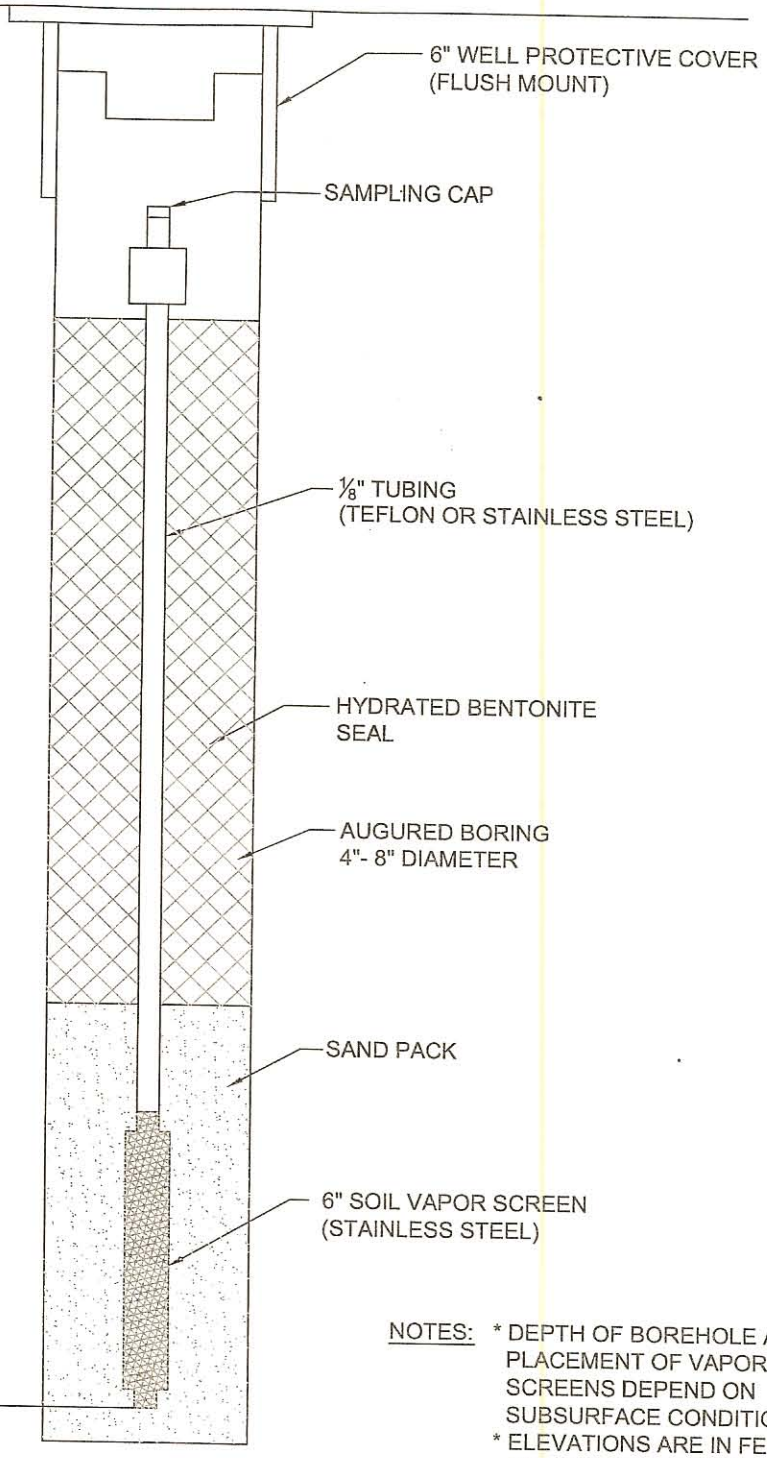
NOTES: AMSL = Above mean sea level
PID = Photo Ionization Detector [* units relative to isobutylene span gas in parts per million (ppm)]
FID = Flame Ionization Detector [+ units relative to methane span gas in parts per million (ppm)]

LAB ANALYSIS:
SOIL: none submitted
GROUNDWATER: none submitted

GROUND SURFACE

SURVEY ELEVATION 431.47 ft

VMP-11
VS



VERY SHALLOW 426.72 ft
(WHITE)

NOTES:
* DEPTH OF BOREHOLE AND PLACEMENT OF VAPOR SCREENS DEPEND ON SUBSURFACE CONDITIONS.
* ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL (AMSL).

VMP-11
SOIL VAPOR MONITORING PROBE
HARTFORD WORKING GROUP
HARTFORD, IL

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DRAWN BY:	JG	DATE:	02/19/04	PROJECT No.:
APPROVED BY:	PE	REVISED:	09/16/04	01005-093-350

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ENSR	*Client:*	HARTFORD WORKING GROUP	***BORING ID:*** VMP-22
	Project Number:	01005-093-350	
	Boring Location:	Hartford Community Center	
		Near southeast building corner	*Sheet:* 1 of 2
	Survey Coordinates:	N 791450.04 E 2316704.87	*Date/Time Started:* 07/13/04 8:30
	Drilling Method:	Hand Auger and Hollow Stem Auger	
Logged By: P. Elliott	*Checked By:*	J. Petruccione	*Date/Time Finished:* 07/13/04 ---
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather:*	Sunny, hot, mid-90s, v. humid	
Drillers: J. Barker and S. Howe	*Drilling Equip.:*	Simco 2800 HS/HT	

Depth (feet)	Surveyed Elevation (431.53 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
					PID / FID	**TOPSOIL** brown, sandy clay	
1	430.60	1 (0-5)	HAND AUGER			**FILL** Loose, limestone gravel with medium-brown, clay	
2	429.60						
3	428.60					grades to clayey silt	
4	427.60					brick fragments present	
5	426.60						
6	425.60	2 (5-10)	SPLIT SPOON	60	48.7 / 4.3	**Silty CLAY (CL)** Stiff, medium brown mottled, silty clay, trace fine grained sand, moist	
7	424.60				33.2 / 66.7		Qp = 2.00
8	423.60					grades to light brown, gray mottled, oxidation noted	**VMP-22S** SHALLOW VAPOR PROBE installed from 8.5 to 9.0 feet bgs
9	422.60						
10	421.60				21.3 / 19.2	color changes to olive green/gray	
11	420.60	3 (10-15)	SPLIT SPOON				
12	419.60				22.2 / 62.1	color changes to olive green with oxidation noted	
13	418.60			42			Qp = 2.25
14	417.60					**Clayey SILT (ML-CL)** Stiff, dark gray-brown, silty clay with oxidation noted, moist	
15	416.60				22.4 / 62.1		
16	415.60	4 (15-20)	SPLIT SPOON				
17	414.60				14.0 / 38.8		**VMP-22M** MEDIUM VAPOR PROBE installed from 17.0 to 17.5 ft bgs
18	413.60			48			
19	412.60					**SAND (SP)** Loose, light brown, fine-grained sand, mottled, oxidation noted, moist	
20	411.60				20.3 / 19.0	**Silty CLAY (CL)** Stiff, olive green silty CLAY, moist	

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

ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** **VMP-22**
	Project Number:	01005-093-350	
	Boring Location:	Hartford Community Center	
		Near southeast building corner	*Sheet:* 2 of 2
	Survey Coordinates:	N 791450.04 E 2316704.87	*Date/Time Started:* 07/13/04 ---
	Drilling Method:	Hand Auger and Hollow Stem Auger	
Logged By: P. Elliott	*Checked By:*	J. Petruccione	*Date/Time Finished:* 07/13/04 14:00
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather:*	Sunny, hot, mid-90s, v. humid	
Drillers: J. Barker and S. Howe	*Drilling Equip.:*	Simco 2800 HS/HT	

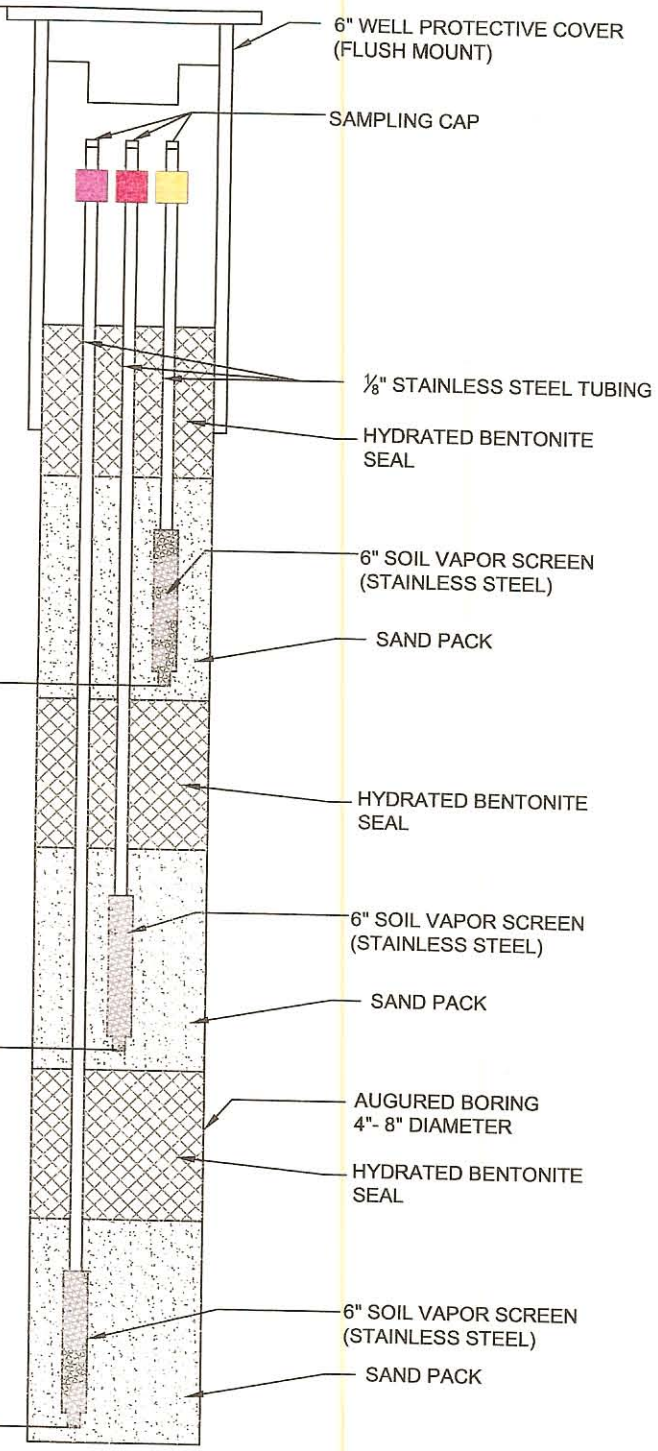
Depth (feet)	Surveyed Elevation (431.53 ft AMSL)	Sample Number (Sample Interval in ft bgs)	Sample Type	Recovery (inches)	PID reading (units*) / FID reading (units+)	Lithologic Description	REMARKS / Lab Sample ID
21	410.60	5 (20-25)	SPLIT SPOON			**Silty CLAY (CL)** Stiff, olive green silty CLAY, moist	
22	409.60				9.5 / 52.9		
23	408.60			36		grades to green/tan mottled	
24	407.60						
25	406.60				6.5 / 87.6		
26	405.60	6 (25-30)	SPLIT SPOON			**Clayey SILT (ML)** Soft medium brown, clayey SILT, wet	
27	404.60				56.4 / 790	**CLAY (CL)** Medium stiff, olive green/gray mottled clay, damp	
28	403.60			48			
29	402.60						
30	401.60				11.5 / 55.4		Qp = 3.25
31	400.60	7 (30-35)	SPLIT SPOON				
32	399.60				16.7 / 42.5		**VMP-22D** DEEP VAPOR PROBE installed from 32.5 to 33.0 ft bgs
33	398.60			54		**SAND (SP)** Loose, tan/light brown, thinly bedded medium grained sand, moist	
34	397.60						
35	396.60				22.7 / 51.1	moisture content increases	
36						End of Boring at 35 feet below ground surface	
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)]

LAB ANALYSIS:
SOIL: none submitted
GROUNDWATER: none submitted

GROUND SURFACE
SURVEY ELEVATION 431.60 ft

VMP-22
S/M/D



NOTES: * DEPTH OF BOREHOLE AND PLACEMENT OF VAPOR SCREENS DEPEND ON SUBSURFACE CONDITIONS.
* ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL (AMSL).

VMP-22
SOIL VAPOR MONITORING PROBE
HARTFORD WORKING GROUP
HARTFORD, IL

NOT TO SCALE

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DRAWN BY: JG	DATE: 02/19/04	PROJECT No.:
APPROVED BY: PE	REVISED: 09/16/04	01005-093-350

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ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** **VMP-23S**
	Project Number:	01005-093-350	
	Boring Location:	Hartford Community Center	
		West side of building	*Sheet:* 1 of 1
	Survey Coordinates:	N 791540.04 E 2316665.11	*Date/Time Started:* 07/12/04 10:45
	Drilling Method:	Hand Auger	
Logged By: P. Elliott	*Checked By:*	J. Petruccione	*Date/Time Finished:* 07/12/04 11:30
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather:*	Sunny, hot, mid-90s, v. humid	
Drillers: J. Barker and S. Howe	*Drilling Equip.:*	8 1/2 inch diameter hand auger	

Depth (feet)	Surveyed Elevation (431.53 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	430.22	1 (0-6)	HAND AUGER		PID / FID	**TOPSOIL** brown, sandy clay	
						Silty CLAY (CL)	
2	429.22					Medium stiff, gray silty CLAY, some root fibers, damp	
3	428.22				1.1 / 4.6		
4	427.22						
5	426.22					becomes soft with trace gravel	**VMP-23S** SHALLOW VAPOR PROBE installed from 5.0 to 5.8 feet bgs
6	425.22				0.8 / 5.6		
7						End of Boring at 6.0 feet below ground surface	
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

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)]

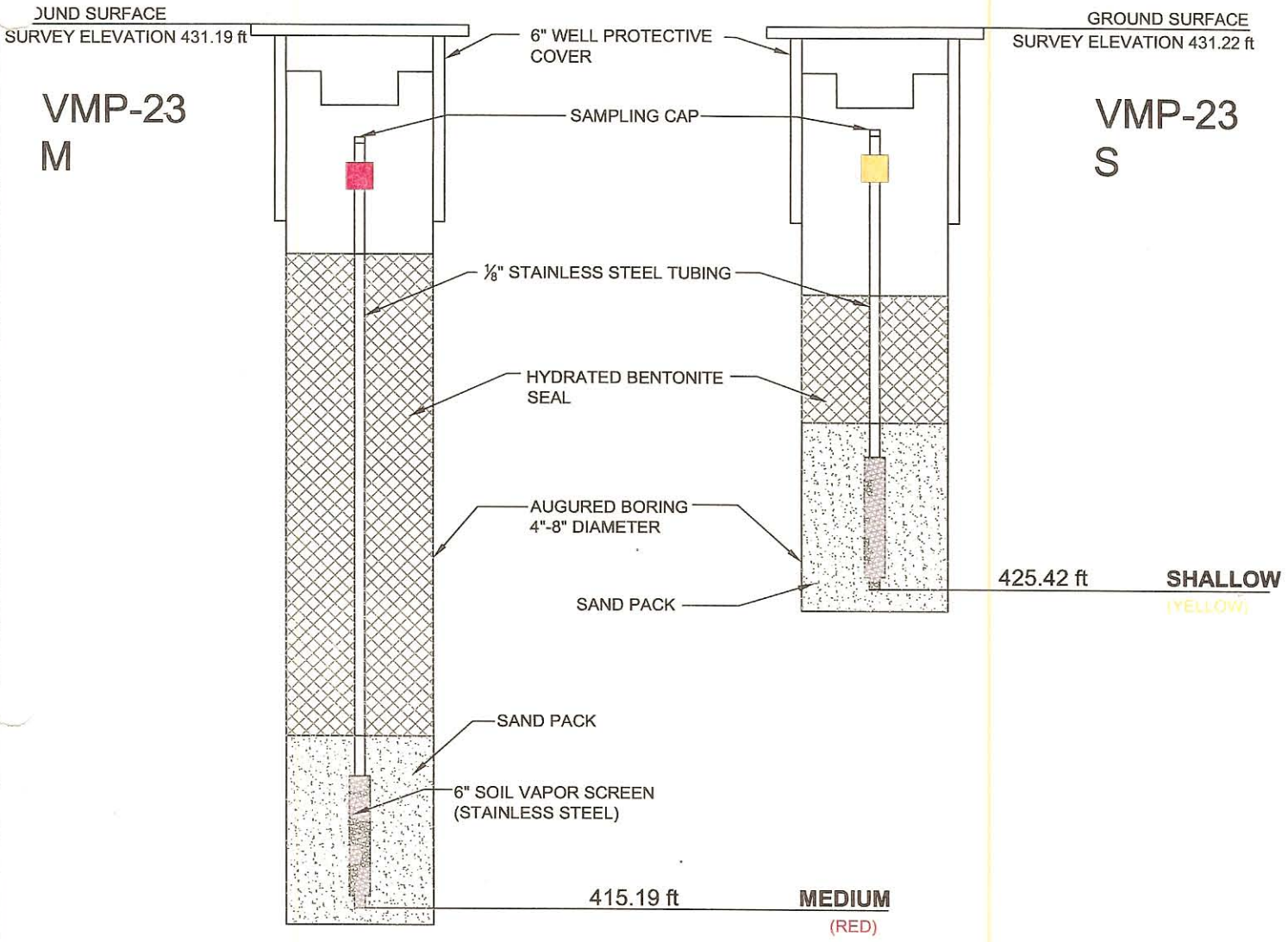
LAB ANALYSIS:
SOIL: none submitted
GROUNDWATER: none submitted

ENSR	Client:	HARTFORD WORKING GROUP	BORING ID: VMP-23M
	Project Number:	01005-093-350	
	Boring Location:	Hartford Community Center West side of building	Sheet: 1
	Survey Coordinates:	N 791536.79 E 2316656.28	Date/Time Started: 07/20/04 12:15
	Drilling Method:	Geoprobe	
Logged By: P. Elliott	Checked By:	J. Petruccione	Date/Time Finished: 07/20/04 13:30
Drilling Co.: MRK Environmental Exploration, Inc.	Weather:	Sunny, hot, mid-90s, v. humid	
Drillers: J. Barker and S. Howe	Drilling Equip.:	Simco 2800 HS/HT	

Depth (feet)	Surveyed Elevation (431.53 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
					PID / FID	**TOPSOIL** brown, sandy clay	
1	430.19	1 (0-3)	ACETATE LINER	36		**Silty CLAY (CL)** Medium stiff, gray silty CLAY, some silty, some root fibers, damp	
2	429.19						
3	428.19				1.1 / 4.6		
4	427.19	2 (3-6)	ACETATE LINER				
5	426.19			36	2.1 / 3.3	trace gravel present	
6	425.19						Qp = 3.25
7	424.19	3 (6-9)	ACETATE LINER				
8	423.19			36	1.5 / 5.4		
9	422.19						
10	421.19	4 (9-12)	ACETATE LINER			oxidation noted	
11	420.19			36	0.1 / 3.2		
12	419.19						
13	418.19	5 (12-15)	ACETATE LINER				
14	417.19			30	0.6 / 4.2		
15	416.19					**Sandy, Silty CLAY** Soft green, fine grained sandy, silty CLAY, moist	**VMP-23M** installed from 15.0 to 16.0 feet bgs
16	415.19	6 (15-18)	ACETATE LINER				MEDIUM VAPOR PROBE
17	414.19			36	0.3 / 6.3		
18	413.19					**Clayey SILT (ML)** Soft, gray clayey silt, wet	
19						End of Boring at 18.0 feet below ground surface	
20							

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



NOTES: * DEPTH OF BOREHOLE AND PLACEMENT OF VAPOR SCREENS DEPEND ON SUBSURFACE CONDITIONS.
* ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL (AMSL).

VMP-23
SOIL VAPOR MONITORING PROBE
HARTFORD WORKING GROUP
HARTFORD, IL

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DRAWN BY:	JG	DATE:	02/19/04	PROJECT No.:	
APPROVED BY:	PE	REVISED:	9/16/04	01005-093-350	

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ENSR	*Client:*	HARTFORD WORKING GROUP	***BORING ID:*** VMP-24S
	Project Number:	01005-093-350	
	Boring Location:	Hartford Community Center	
		North side of building	*Sheet:* 1 of 1
	Survey Coordinates:	N 791564.49 E 2316725.94	*Date/Time Started:* 07/12/04 13:00
	Drilling Method:	Geoprobe	
Logged By: P. Elliott	*Checked By:*	J. Petruccione	*Date/Time Finished:* 07/12/04 14:00
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather:*	Sunny, hot, mid-90s, v. humid	
Drillers: J. Barker and S. Howe	*Drilling Equip.:*	Simco 2800 HS/HT	

Depth (feet)	Surveyed Elevation (431.53 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	430.25	1 (0-3)	ACETATE LINER	36	PID / FID	**TOPSOIL** brown, sandy clay	
2	429.25					**Silty CLAY (CL)** Medium stiff, gray silty CLAY, damp	
3	428.25				0.9 / 5.6		
4	427.25	2 (3-6)	ACETATE LINER	36			
5	426.25						**VMP-24S** SHALLOW VAPOR PROBE installed from 5.5 to 6.0 feet bgs
6	425.25				1.1 / 6.5		
7						End of Boring at 6.0 feet below ground surface	
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

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-24M
	Project Number:	01005-093-350	
	Boring Location:	Hartford Community Center	
		North side of building	*Sheet:* 1
	Survey Coordinates:	N 791564.75 E 2316721.60	*Date/Time Started:* 07/20/04 8:00
	Drilling Method:	Geoprobe	
Logged By: P. Elliott	*Checked By:*	J. Petruccione	*Date/Time Finished:* 07/20/04 ---
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather:*	Sunny, hot, mid-90s, v. humid	
Drillers: J. Barker and S. Howe	*Drilling Equip.:*	Simco 2800 HS/HT	

Depth (feet)	Surveyed Elevation (431.53 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
					PID / FID	**TOPSOIL** brown, sandy clay	
1	430.31	1 (0-3)	ACETATE LINER	36		**Silty CLAY (CL)** Medium stiff, gray silty CLAY, some root fibers, damp	
2	429.31						
3	428.31				1.1 / 4.6		
4	427.31	2 (3-6)	ACETATE LINER	36			
5	426.31				2.1 / 3.3	trace gravel present	
6	425.31						Qp = 3.25
7	424.31	3 (6-9)	ACETATE LINER	36			
8	423.31				1.5 / 5.4		**VMP-24M (7.5-9.0)** collected for Geotech analysis
9	422.31						
10	421.31	4 (9-12)	ACETATE LINER	36		oxidation noted	
11	420.31				0.1 / 3.2		**VMP-24M** MEDIUM VAPOR PROBE installed from 10.5 to 11.0 feet bgs
12	419.31						
13	418.31	5 (12-15)	ACETATE LINER	30			
14	417.31				0.6 / 4.2		**VMP-24M (13.0-14.0)** collected for Geotech analysis
15	416.31					**Sandy, Silty CLAY** Soft green, fine grained sandy, silty CLAY, moist	
16	415.31	6 (15-18)	ACETATE LINER	36			
17	414.31				0.3 / 6.3	**Clayey SILT (ML)** Soft, gray clayey silt, wet	
18	413.31						
19	412.31	7 (18-21)	ACETATE LINER	30			
20	411.31						**VMP-24M (18.5-21.0)** collected for Geotech analysis

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)]

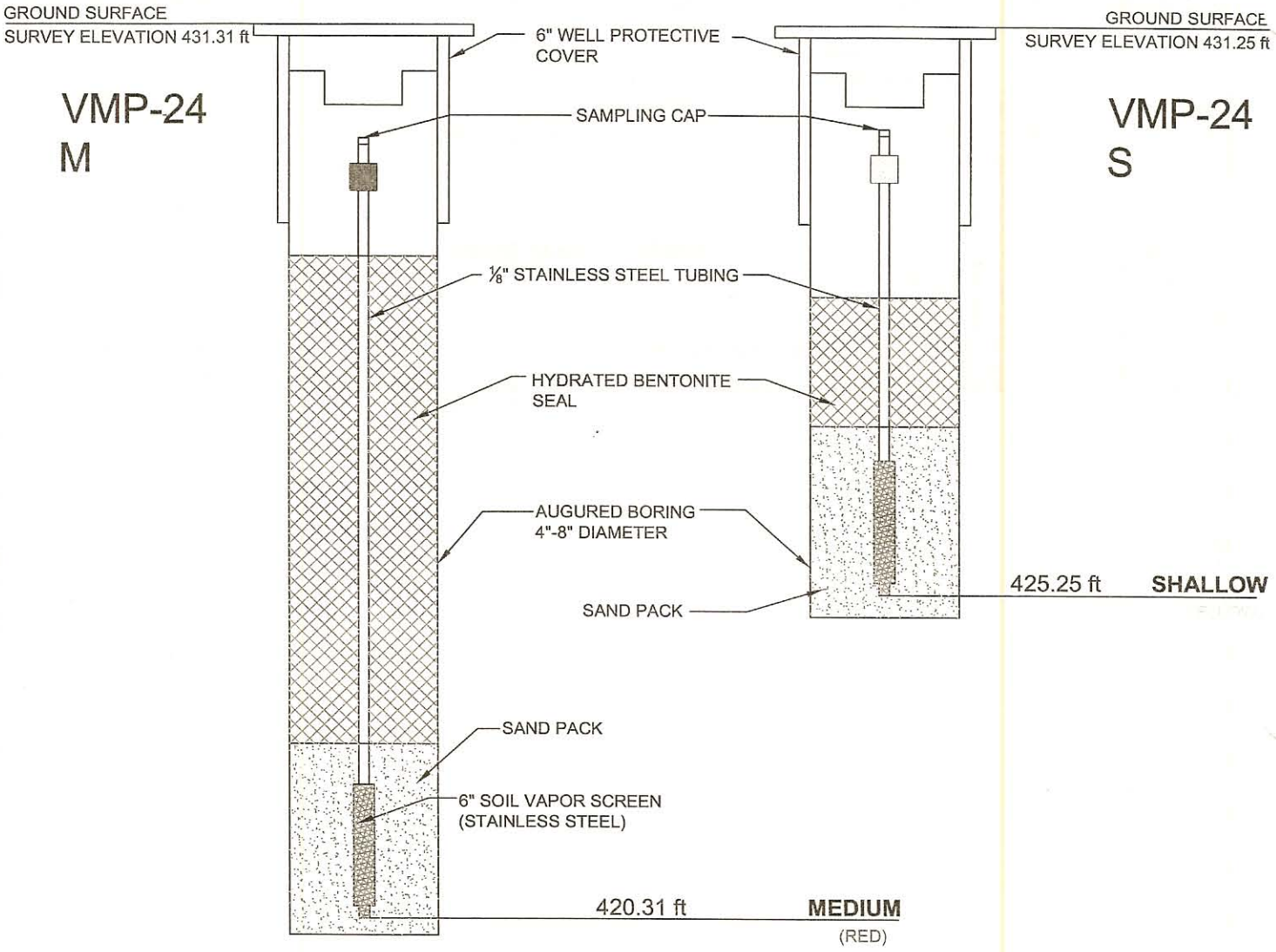
LAB ANALYSIS:
SOIL: % moisture, bulk density, porosity, specific gravity, wet fines sieve
GROUNDWATER: none submitted

ENSR	Client:	HARTFORD WORKING GROUP	BORING ID: VMP-24M
	Project Number:	01005-093-350	
	Boring Location:	Hartford Community Center	
		North side of building	Sheet: 2 of 2
	Survey Coordinates:	N 791564.75 E 2316721.60	Date/Time Started: 07/20/04 ---
	Drilling Method:	Geoprobe	
Logged By: P. Elliott	Checked By:	J. Petruccione	Date/Time Finished: 07/20/04 11:30
Drilling Co.: MRK Environmental Exploration, Inc.	Weather:	Sunny, hot, mid-90s, v. humid	
Drillers: J. Barker and S. Howe	Drilling Equip.:	Simco 2800 HS/HT	

Depth (feet)	Surveyed Elevation (431.53 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
21	—	7 (18-21)	ACETATE LINER		PID / FID	(Con't) Clayey SILT (ML)	(Con't) VMP-24M (18.5-21.0) collected for Geotech analysis
						End of Boring at 21 feet below ground surface	
22	—						
23	—						
24	—						
25	—						
26	—						
27	—						
28	—						
29	—						
30	—						
31	—						
32	—						
33	—						
34	—						
35	—						
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)]

LAB ANALYSIS:
SOIL: % moisture, bulk density, porosity, specific gravity, wet fines sieve
GROUNDWATER: none submitted



NOTES: * DEPTH OF BOREHOLE AND PLACEMENT OF VAPOR SCREENS DEPEND ON SUBSURFACE CONDITIONS.
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VMP-24
SOIL VAPOR MONITORING PROBE
HARTFORD WORKING GROUP
HARTFORD, IL

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DRAWN BY: JG	DATE: 02/19/04	PROJECT No.:
APPROVED BY: PE	REVISED: 9/16/04	01005-093-350

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ENSR	*Client:*	**HARTFORD WORKING GROUP**	***BORING ID:*** **VMP-25S**
	Project Number:	01005-093-350	
	Boring Location:	Hartford Community Center	
		East side of building	*Sheet:* 1 of 1
	Survey Coordinates:	N 791516.47 E 2316792.21	*Date/Time Started:* 07/12/04 14:00
	Drilling Method:	Hand Auger	
Logged By: P. Elliott	*Checked By:*	J. Petruccione	*Date/Time Finished:* 07/12/04 15:00
Drilling Co.: MRK Environmental Exploration, Inc.	*Weather:*	Sunny, hot, mid-90s, v. humid	
Drillers: J. Barker and S. Howe	*Drilling Equip.:*	8 1/2 inch diameter hand auger	

Depth (feet)	Surveyed Elevation (431.53 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	429.79				PID / FID	**TOPSOIL** brown, sandy clay	
2	428.79		HAND AUGER			**Silty CLAY (CL)** Medium stiff, dark brown silty CLAY, damp	
3	427.79	1 (0-6)			2.9 / 7.3		
4	426.79						
5	425.79						**VMP-25S** SHALLOW VAPOR PROBE installed from 5.5 to 6.0 feet bgs
6	424.79				2.2 / 5.8		
7						End of Boring at 6.0 feet below ground surface	
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

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)]

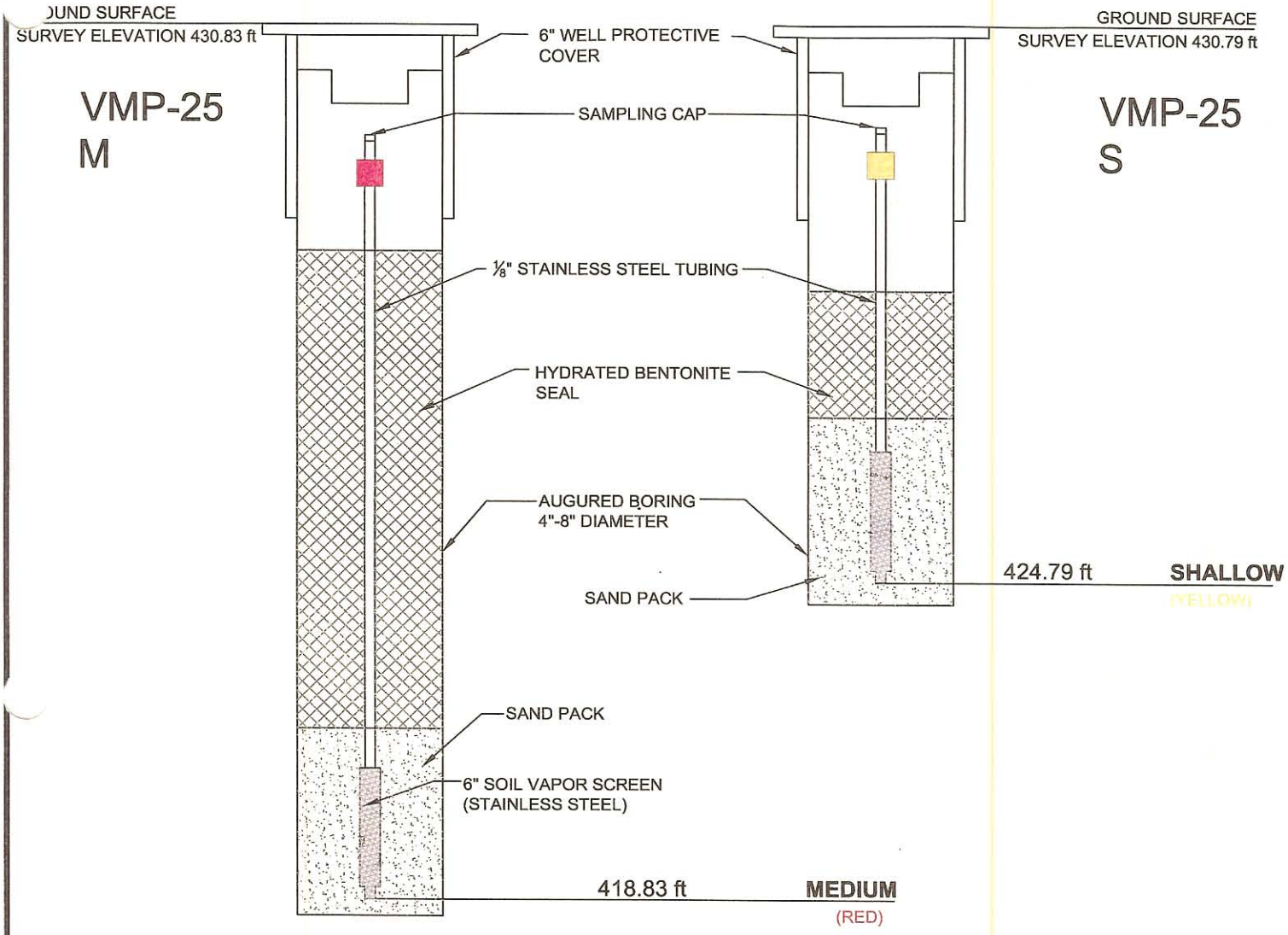
LAB ANALYSIS:
SOIL: none submitted
GROUNDWATER: none submitted

ENSR	Client:	HARTFORD WORKING GROUP	BORING ID: VMP-25M
	Project Number:	01005-093-350	
	Boring Location:	Hartford Community Center East side of building	Sheet: 1
	Survey Coordinates:	N 791515.09 E 2316792.07	Date/Time Started: 07/20/04 13:45
	Drilling Method:	Hand Auger and Geoprobe	
Logged By: P. Elliott	Checked By:	J. Petruccione	Date/Time Finished: 07/20/04 14:30
Drilling Co.: MRK Environmental Exploration, Inc.	Weather:	Sunny, hot, mid-90s, v. humid	
Drillers: J. Barker and S. Howe	Drilling Equip.:	Simco 2800 HS/HT	

Depth (feet)	Surveyed Elevation (431.53 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	429.83	1 (0-6)	HAND AUGER		PID / FID	**TOPSOIL** brown, sandy clay	
						FILL Gray, fill	
2	428.83						
3	427.83				1.1 / 4.6		
4	426.83						
5	425.83				2.1 / 3.3	brick fragments present trace gravel present	
6	424.83						
7	423.83	2 (6-9)	ACETATE LINER			**CLAY (CH)** Medium stiff, gray CLAY, trace silt, damp	
8	422.83			30	1.5 / 5.4		
9	421.83						Qp = 2.75
10	420.83	3 (9-12)	ACETATE LINER			oxidation noted	
11	419.83			30	0.1 / 3.2		
12	418.83						**VMP-25M** MEDIUM VAPOR PROBE installed from 11.5 to 12.0 feet bgs
13	417.83	4 (12-15)	ACETATE LINER				
14	416.83			36	0.6 / 4.2		
15	415.83					**Sandy, Silty CLAY (CL)** Soft green, fine grained sandy, silty CLAY, moist	
16	414.83	5 (15-18)	ACETATE LINER				
17	413.83			36	0.3 / 6.3	**Clayey SILT (ML/CL)** Soft, gray clayey silt, wet	**VMP-25M (16.0-18.0)** collected for Geotech analysis
18	412.83						
19		End of Boring at 18.0 feet below ground surface					
20							

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: % moisture, bulk density, porosity, specific gravity, wet fines sieve
GROUNDWATER: none submitted



NOTES: * DEPTH OF BOREHOLE AND PLACEMENT OF VAPOR SCREENS DEPEND ON SUBSURFACE CONDITIONS.
* ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL (AMSL).

VMP-25
SOIL VAPOR MONITORING PROBE
HARTFORD WORKING GROUP
HARTFORD, IL

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DRAWN BY: JG	DATE: 02/19/04	PROJECT No.:
APPROVED BY: PE	REVISED: 9/16/04	01005-093-350

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APPENDIX D-2

Clayton Boring Logs

Clayton GROUP SERVICES

BORING NO: HMW-38	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 791606.92N, 2316448.39E (HMW-38C)	

DRILLING CO: Transhield	DRILLER: J. Luna	LOGGED BY: A. Schultz
DRILLING EQUIP: D-50 Geoprobe/Direct Push	SCREEN INTERVAL: NA	CHECKED BY: MMW
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: NA	START DATE: 08/03/04
BOREHOLE DIA: 2 Inches	STICKUP: NA	START TIME (hours): 0747
TOP of CASING ELEVATION: 430.01 (HMW-38C)	G.S. ELEVATION: 430.43 (HMW-38C)	FINISH DATE: 08/03/04
RISER DIA/MTL/LGTH: NA	DEV. METHODS: NA	FINISH TIME (hours): 1007

DEPTH (ft / m)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	PID HEADSPACE	REMARKS
0 / 0	**BLIND AUGER (0.0'-6.0')**		Monitoring Well HMW-38 A, Monitoring Well HMW-38 B, Monitoring Well HMW-38 C	A	–	HA	–	NA	–	–	Hand auger 0.0'-6.0'
6 / 2	**SILTY CLAY (6.0'-9.5') CL** Gray with brown/orange mottles, moist, stiff, slight petroleum odor			B	1.5/2	HP	M	NA	–	29.3	*Collected sample at 6.0-8.0' for analysis of BETX, MTBE, Lead, and geotechnical
				C	2.5/4	HP	M	NA	–	95.4	
10 / 3	**SILT (9.5'-16.5') ML** Brown with orange mottles, moist, with clay, some fine sand, slight petroleum odor						M		–	68.9	*Collected sample at 12.0-14.0' for analysis of BETX, MTBE, and Lead
12 / 4				D	4/4	HP	M	NA	–	55.4	
14 / 4	Grades to strong petroleum odor at 15.2'						M/W		–	45.8	* Collected sample at 14.0-16.0' for geotechnical analysis
16 / 5	**CLAYEY SILT (16.5'-29.9') ML** Brown with gray and orange mottles, wet, some fine sand, strong petroleum odor Grades moist at 17.3'			E	3.4/4	HP	W/M	NA	–	191	
18 / 5							M		–	135	
20 / 6											

Boring/Well No.: HMW-38 Soil Boring

Clayton GROUP SERVICES

BORING NO: HMW-38	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	PID HEADSPACE	REMARKS
22			Well HMW-38 B, Well HMW-38 C	F	4/4	HP	M	NA	–	402	
							M		–	1997	
24	0.5-Foot silt sand seam at 24.0'										
	Grades wet at 25.1-25.5'			G	4/4	HP	M/W	NA	–	>2000	*Collected sample at 26.0-28.0' for analysis of Skinner List
26 (8)							M		–	1970	
28				H	4/4	HP	M	NA	–	1124	
30	**SILTY CLAY (29.9'-33.1') CL** Gray with orange mottles, moist, stiff, strong petroleum odor						M		–	1783	* Collected sample at 30.0-32.0' for geotechnical analysis
32 (10)	**SAND (33.1'-44.0') SW** Brown, saturated, fine to coarse grained, strong petroleum odor			I	3/4	HP	M/S	NA	–	1962	
34							S		–	>2000	
36				J	3/4	HP	S	NA	–	1535	
38							S		–	429	
40 (12)											

Boring/Well No.: HMW-38 Soil Boring

Clayton GROUP SERVICES

BORING NO: HMW-38	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
42				K	4/4	HP	S	NA	–	29.8	
							S		–	17.5	
44											
46 – 14	End of Boring at 44.0' This soil boring was advanced for geologic purposes. See related monitoring well construction forms HMW-38 A, B, and C for details regarding monitoring well construction.										
48											
50											
52 – 16											
54											
56											
58											
18											
60											

Clayton GROUP SERVICES

BORING NO: HMW-45	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 791398.23N, 2316721.27E	
DRILLING CO: Transhield	DRILLER: J. Luna	LOGGED BY: A. Schultz	
DRILLING EQUIP: D-50 Geoprobe/Direct Push	SCREEN INTERVAL: NA	CHECKED BY: MMW	
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: NA	START DATE: 08/04/04	
BOREHOLE DIA: 2 inches	STICKUP: NA	START TIME (hours): 0817	
TOP of CASING ELEVATION: 430.87 (HMW-45C)	G.S. ELEVATION: 431.56 (HMW-45C)	FINISH DATE: 08/04/04	
RISER DIA/MTL/LGTH: NA	DEV. METHODS: NA	FINISH TIME (hours): 0955	

DEPTH (ft)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
0 (0 m)	**BLIND AUGER (0.0'-8.0')**		Monitoring Well HMW-45 A, Monitoring Well HMW-45 B, Monitoring Well HMW-45 C	A	–	HA	–	NA	–	–	Hand auger 0.0'-8.0'
2											
4											
6 (2 m)											* Collected sample at 8.0-10.0' for geotechnical analysis
8	**FILL (8.0'-9.2')** Dark brown clayey silt, moist, fine to coarse gravel, brick fragments, black staining			B	4/4	HP	M	NA	–	19.7	*Collected sample at 10.0-12.0' for analysis of BETX, MTBE, and Lead
10	**SILTY CLAY (9.2'-10.6') CL** Brown with orange mottles, moist, stiff, strong petro. odor						M		–	10.9	
12	**CLAYEY SILT (10.6'-11.3') ML** Brown with orange mottles, moist, strong petroleum odor			C	4/4	HP	M	NA	–	31.7	*Collected sample at 12.0-14.0' for analysis of BETX, MTBE, and Lead
14 (4 m)	**SILT (11.3'-13.1') ML** Brown with orange mottles, moist, with clay, some fine sand, strong petroleum odor						W		–	16.1	
16	**SILT (13.1'-17.4') ML** Gray, wet, with fine sand, strong petroleum odor Black staining at 14.7-15.3'			D	3.5/4	HP	W	NA	–	10.2	* Collected sample at 14.0-15.0' for geotechnical analysis
18	**CLAYEY SILT (17.4'-22.1') ML** Gray, wet, strong petroleum odor						W		–	30.4	
20 (6 m)											

Boring/Well No.: HMW-45 Soil Boring

Clayton GROUP SERVICES

BORING NO: HMW-45	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	PID HEADSPACE	REMARKS
22			Well HMW-45 B, Well HMW-45 C	E	2.5/4	HP	W/M	NA	–	12.0	*Collected sample at 22.0-24.0' for analysis of Skinner List and 21.0 - 23.0' for geotechnical analysis
	SILTY CLAY (22.1'-23.7') CL Gray with orange mottles, moist, stiff, strong petroleum odor						M/S		–	487	
24	**SILT (23.7'-28.2') ML** Gray, saturated, with clay and fine sand, strong petroleum odor			F	3.7/4	HP	S	NA	–	1098	* Collected sample at 24.0-26.0' for geotechnical analysis
	0.4-Foot silty clay seam at 26.2'										
26 – 8							S		–	662	
28	**SILTY CLAY (28.2'-31.4')** Gray with orange mottles, moist, stiff, strong petroleum odor			G	3.8/4	HP	M	NA	–	100	*Collected sample at 28.0-30.0' for analysis of Skinner List and geotechnical
30							M/W		–	1509	
32	**SAND (31.4'-32.5') SP** Brown, wet, fine to medium grained, strong petroleum odor										
10	**SAND (32.5'-36.0') SW** Brown, saturated, fine to coarse grained, strong petroleum odor			H	3.8/4	HP	S	NA	–	1939	
34							S		–	>2000	
36	End of Boring at 36.0'										
38											
12											
40											

Boring/Well No.: HMW-45 Soil Boring

Clayton GROUP SERVICES

BORING NO: HMW-45	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES METHOD	SAMPLES MOISTURE	SAMPLES BLOW CNT (6")	PID SCAN	PID HEADSPACE	REMARKS
42	This soil boring was advanced for geologic purposes. See monitoring well construction forms HMW-45 A, B, and C for details regarding monitoring well construction.										
44											
46	14										
48											
50											
52	16										
54											
56											
58											
60	18										

Clayton GROUP SERVICES

BORING NO: HMW-46	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 791606.83N, 2316601.13E	
DRILLING CO: Transhield	DRILLER: J. Luna	LOGGED BY: A. Schultz	
DRILLING EQUIP: D-50 Geoprobe/Direct Push	SCREEN INTERVAL: NA	CHECKED BY: MMW	
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: NA	START DATE: 08/02/04	
BOREHOLE DIA: 2 inches	STICKUP: NA	START TIME (hours): 1627	
TOP of CASING ELEVATION: 430.49 (HMW-46C)	G.S. ELEVATION: 430.87 (HMW-46C)	FINISH DATE: 08/02/04	
RISER DIA/MTL/LGTH: NA	DEV. METHODS: NA	FINISH TIME (hours): 1748	

DEPTH (ft / m)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
0 / 0	**BLIND AUGER (0.0'-6.0')**		Monitoring Well HMW-46 A, Monitoring Well HMW-46 B, Monitoring Well HMW-46 C	A	--	HA	--	NA	--	--	Hand auger 0.0'-6.0'
6 / 2	**S Y CLAY (6.0'-11.2') CL** Brown with orange mottles, moist, stiff, some fine sand, slight petroleum odor			B	1.8/2	HP	M	NA	--	23.3	*Collected sample at 8.0-10.0' for analysis of BETX, MTBE, Lead, and geotechnical
				C	3/4	HP	M	NA	--	42.7	
							M		--	61.9	
12 / 4	**SILT (11.2'-17.6') ML** Gray with orange mottles, moist, with clay, some fine sand Grades to with fine sand at 12.8' 0.4-Foot silty clay seam at 13.2' Wet at 13.6' 0.3-Foot silty clay seam at 14.0' Saturated at 15.7			D	3/4	HP	M/W	NA	--	114	*Collected sample at 12.0-14.0' for analysis of Skinner List and 12.5'-13.0' for geotechnical analysis
							W/S		--	748	
16				E	4/4	HP	S	NA	--	470	* Collected sample at 14.0-16.0' for geotechnical analysis
18 / 6	**CLAYEY SILT (17.6'-26.7') ML** Gray with orange mottles, moist, strong petroleum odor						M		--	1277	
20											

Boring/Well No.: HMW-46 Soil Boring

Clayton GROUP SERVICES

BORING NO: HMW-46	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
22			Well HMW-46 B	F	4/4	HP	M	NA	–	746	*Collected sample at 22.0-24.0' for analysis of BETX, MTBE, Lead, and geotechnical
			Well HMW-46 C				M		–	1194	
24	0.3-Foot sand silt seam at 25.3'			G	4/4	HP	M	NA	–	595	
26	8						M		–	468	
28	**SILTY CLAY (26.7'-32.0') CL** Gray with orange mottles, moist, stiff			H	4/4	HP	M	NA	–	1361	* Collected sample 28.0-30.0' for geotechnical analysis
30							M		–	112	
32	**NO RECOVER (32.0'-36.0')** (Adjacent well boring identified soils at this depth to be a well graded sand (SW)).			I	0/4	HP	–	NA	–	–	
34	10						–		–	–	
36	**SAND (36.0'-44.0') SW** Brown, saturated, fine to coarse grained, strong petroleum odor			J	2/4	HP	S	NA	–	1225	
38							S		–	1086	
40	12										

Clayton GROUP SERVICES

BORING NO: HMW-46	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
42				K	2/4	HP	S	NA	–	1427	
							S		–	77.7	
44											
46 (14)	End of Boring at 44.0' **This soil boring was advanced for geologic purposes.** **See related monitoring well construction forms HMW-46 A, B, and C for details regarding monitoring well construction.**										
48											
50											
52 (16)											
54											
56											
58 (18)											
60											

Clayton GROUP SERVICES

BORING NO: HMW-47	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group
BORING LOCATION: Hartford, Illinois		COORDINATES: 791607.38N, 2316789.67E	
DRILLING CO: Transhield	DRILLER: J. Luna	LOGGED BY: A. Schultz	
DRILLING EQUIP: D-50 Geoprobe/Direct Push	SCREEN INTERVAL: NA	CHECKED BY: MMW	
STATIC WATER LEVEL: NA	SCREEN MTL/SLOT: NA	START DATE: 08/02/04	
BOREHOLE DIA: 2 inches	STICKUP: NA	START TIME (hours): 1353	
TOP of CASING ELEVATION: 430.61 (HMW-47C)	G.S. ELEVATION: 430.81 (HMW-47C)	FINISH DATE: 08/02/04	
RISER DIA/MTL/LGTH: NA	DEV. METHODS: NA	FINISH TIME (hours): 1602	

DEPTH (ft / m)	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	HEADSPACE	REMARKS
0 / 0	**BLIND AUGER (0.0'-6.0')**		Monitoring Well HMW-47 A, Monitoring Well HMW-47 B, Monitoring Well HMW-47 C	A	–	HA	–	NA	–	–	Hand auger 0.0'-6.0'
6 / 2	**SILTY CLAY (6.0'-8.0') CL** Dark gray with black mottles, moist			B	1.5/2	HP	M	NA	–	19.1	
8	**SILT (8.0'-10.3') ML** Light brown with orange mottles, wet, with clay and fine to medium sand, strong petroleum odor			C	4/4	HP	M	NA	–	17.8	*Collected sample at 10.0-12.0' for analysis of BETX, MTBE, Lead, and geotechnical
10	**CLAYEY SILT (10.3'-13.6') ML** Gray with orange mottles, moist, with fine sand, slight petroleum odor						W/M		–	24.6	
12 / 4				D	3/4	HP	M	NA	–	11.7	
14	**SILT (13.6'-19.3') ML** Brown, saturated, some fine sand Grades moist at 14.9-16.8'						M/S		–	20.2	*Collected sample at 14.0-16.0' for analysis of Skinner List
16				E	3.5/4	HP	M	NA	–	24.4	
18							S		–	21.7	* Collected sample at 17.0-17.5' for geotechnical analysis
20 / 6											

Boring/Well No.: HMW-47 Soil Boring

Clayton GROUP SERVICES

BORING NO: HMW-47	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	RECOVERY	METHOD	MOISTURE	BLOW CNT (6")	PID SCAN	PID HEADSPACE	REMARKS
	CLAYEY SILT (19.3'-30.9') ML Brown with orange mottles, moist, some fine sand, strong petroleum odor Saturated at 21.6-22.6'		Monitoring Well HMW-47 B	F	3.4	HP	S	NA	--	20.5	* Collected sample at 22.0-24.0' for geotechnical analysis
22							S/M		--	20.3	*Collected sample at 24.0-26.0' for analysis of BETX, MTBE, and Lead
24			Monitoring Well HMW-47 C	G	4/4	HP	M/S	NA	--	13.7	
26 (8)							M		--	66.6	
28				H	4/4	HP	M	NA	--	14.1	
30	0.1-Foot sandy clay seam at 30.8'						M		--	481	
	SILTY CLAY (30.9'-35.1') Gray with orange mottles, moist, stiff, strong petroleum odor										
32 (10)				I	4/4	HP	M	NA	--	155	
34							M/S		--	111	
36	**SILT (35.1'-35.7') ML** Gray with orange mottles, moist, with clay, some fine sand, strong petroleum odor										
	SAND (35.7'-44.0') SW Brown, saturated, fine to coarse grained, strong petroleum odor			J	2.5/4	HP	S	NA	--	1413	
38							S		--	1535	
40 (12)											

Clayton GROUP SERVICES

BORING NO: HMW-47	WELL NO: NA	PROJECT NO: 15-03095.13-002	PROJECT NAME: Hartford Working Group

DEPTH	DESCRIPTION	GRAPHIC	WELL	SAMPLES NUMBER	SAMPLES RECOVERY	SAMPLES METHOD	SAMPLES MOISTURE	SAMPLES BLOW CNT (6")	PID SCAN	PID HEADSPACE	REMARKS
42				K	2/4	HP	S	NA	–	1368	*Collected sample at 42.0-44.0' for analysis of BETX, MTBE, and Lead
	0.4-Foot clayey silt seam, gray, moist at 43.1'						S		–	110	
44	End of Boring at 44.0'										
46 – 14	**This soil boring was advanced for geologic purposes.**										
	See related monitoring well construction forms HMW-47 A, B, and C for details regarding monitoring well construction.										
48											
50											
52 – 16											
54											
56											
58 – 18											
60											

APPENDIX E

Indoor Air and Soil Vapor Laboratory Reports – Air Toxics

(see enclosed CD)

APPENDIX F

Gore Sorber™ Laboratory Report

GORE
Creative Technologies Worldwide

W. L. GORE & ASSOCIATES, INC.
100 CHESAPEAKE BLVD · P.O. BOX 10 · ELKTON, MARYLAND 21922-0010
PHONE: 410/392-7600 FAX: 410/506-4780

SURVEY PRODUCTS GROUP

Date: 8/25/2004

To: **John Petruccione**
ENSRConsulting and Engineering
Warrenville, Il
630-836-1711

RE: **GORE™ Surveys for Site Assessment and Monitoring**
East Watkins Street, Hartford, IL
Pages: 4 (including cover page)
(If you did not receive all the pages specified above, please call 410-506-7600)

Dear Mr. Petruccione:

The following items require your attention or review:

[x] **Draft** Data table, **GORE™ Surveys for Site Assessment and Monitoring** soil gas results (attached)

[ ] Status of the electronic CAD sitemap which has not been received by Gore

[ ] Compound choices for mapping

- The final project deliverable includes a report and up to three contour maps typically.
- For mapping purposes, please contact us as to which compounds or groups of compounds you would like to have mapped, after your review of the data. If we have not received a usable CAD sitemap, please contact us as to the status of the electronic file. If you require additional information concerning the sitemap file format, please refer to the CAD instruction sheet provided in the original quotation, or call us. You can e-mail the CAD file to "jwhetzel@wlgore.com" or "jhodny@wlgore.com".

NOTE: If we have not heard from you, the final report will be issued approximately two weeks after the date of this fax . If mapping was to be part of the final project deliverable, this can addressed at a later date.

Please contact Jay Hodny or Jim Whetzel at 410-392-7600 with questions.

Sincerely,
W.L. Gore & Associates, Inc.

Jim Whetzel

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GORE™ Surveys for Site Assessment and Monitoring

KEY TO DATA TABLE
East Watkins Street, Hartford, IL

UNITS	
µg	micrograms (per sorber), reported for compounds
MDL	method detection limit
bdl	below detection limit
nd	non-detect
ANALYTES	
TPH	total petroleum hydrocarbons
BTEX	combined masses of benzene, toluene, ethylbenzene and total xylenes (Gasoline Range Aromatics)
BENZ	benzene
TOL	toluene
EtBENZ	ethylbenzene
mpXYL	m-, p-xylene
oXYL	o-xylene
C11,C13&C15	combined masses of undecane, tridecane, and pentadecane (C11+C13+C15) (Diesel Range Alkanes)
UNDEC	undecane
TRIDEC	tridecane
PENTADEC	pentadecane
TMBs	combined masses of 1,3,5-trimethylbenzene and 1,2,4-trimethylbenzene
135TMB	1,3,5-trimethylbenzene
124TMB	1,2,4-trimethylbenzene
NAPH&2-MN	combined masses of naphthalene and 2-methyl naphthalene
NAPH	naphthalene
2MeNAPH	2-methyl naphthalene
MTBE	methyl t-butyl ether
OCT	octane
BLANKS	
TBn	unexposed trip blanks, travels with the exposed modules
method blank	QA/QC module, documents analytical conditions during analysis

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Sewer –

GORE(TM) SURVEYS FOR ASSESSMENT AND MONITORING ANALYTICAL RESULTS
ENSR CONSULTING AND ENGINEERING, WARRENVILLE, IL
FUEL HYDROCARBONS (A2)
01005-093, HARTFORD, IL
SITE CTR - PRODUCTION ORDER #11884070

8/19
A8.5A
A8.5B
A8.5C
A9
A10

DATE ANALYZED	SAMPLE NAME	TPH, ug	BTEX, ug	BENZ, ug	TOL, ug	EtBENZ, ug	mpXYL, ug	oXYL, ug	C11, C13, &C15, ug	UNDEC, ug
	MDL=			0.03	0.02	0.02	0.02	0.02		0.02
08/23/04	453506	163.38	0.90	0.52	0.17	0.04	0.11	0.06	0.35	0.11
08/23/04	453507	151.59	0.33	0.22	0.03	0.03	0.03	0.03	0.50	0.23
08/23/04	453508	183.23	1.22	0.38	0.51	0.05	0.16	0.12	0.82	0.27
08/23/04	453509	162.82	0.39	0.18	0.14	bdl	0.04	0.04	0.69	0.23
08/23/04	453510	146.28	0.22	0.14	0.03	bdl	0.03	0.02	0.49	0.21
08/23/04	method blank	nd	nd	nd	nd	nd	nd	nd	nd	nd
	Maximum	183.23	1.22	0.52	0.51	0.05	0.16	0.12	0.82	0.27
	Standard Dev.	14.21	0.43	0.16	0.20	0.02	0.06	0.04	0.19	0.06
	Mean	161.46	0.61	0.29	0.17	0.03	0.07	0.05	0.57	0.21

No mdl is available for summed combinations of analytes. In summed columns (eg., BTEX), the reported values should be considered ESTIMATED if any of the individual compounds were reported as bdl.

CTRcust.xls

GORE(TM) SURVEYS FOR ASSESSMENT AND MONITORING ANALYTICAL RESULTS
ENSR CONSULTING AND ENGINEERING, WARRENVILLE, IL
FUEL HYDROCARBONS (A2)
01005-093, HARTFORD, IL
SITE CTR - PRODUCTION ORDER #11884070

SAMPLE NAME	TRIDEC, ug	PENTADEC, ug	TMBs, ug	124TMB, ug	135TMB, ug	NAPH&2-MN, ug	NAPH, ug	2MeNAPH, ug	MTBE, ug	OCT, ug
MDL=	0.02	0.02		0.02	0.02		0.03	0.02	0.03	0.02
453506	0.09	0.15	0.38	0.24	0.14	0.53	0.17	0.36	nd	0.08
453507	0.13	0.14	0.31	0.22	0.09	0.44	0.19	0.25	nd	0.14
453508	0.27	0.29	0.62	0.37	0.26	0.31	0.18	0.13	nd	0.16
453509	0.23	0.23	0.37	0.22	0.15	0.46	0.21	0.25	bdl	0.17
453510	0.13	0.15	0.52	0.36	0.16	0.79	0.33	0.46	nd	0.10
method blank	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Maximum	0.27	0.29	0.62	0.37	0.26	0.79	0.33	0.46	0.00	0.17
Standard Dev.	0.08	0.07	0.13	0.08	0.06	0.18	0.06	0.12	0.00	0.04
Mean	0.17	0.19	0.44	0.28	0.16	0.50	0.22	0.29	0.00	0.13

No mdl is available for summed combinations of analytes. In summed columns (eg., BTEX), the reported values should be considered ESTIMATED if any of the individual compounds were reported as bdl.

APPENDIX G

Test Pit Logs and Photographs

ENSR	*Client:*	HARTFORD WORKING GROUP	***BORING ID:*** TP-1
	Project Number:	01005-093-400	
	Boring Location:	Hartford Community Center	
		West side of lot	*Sheet:* 1 of 1
	Survey Coordinates:	N 791433.47 E 2316443.96	*Date/Time Started:* 08/11/04 13:00
	Size of Excavation:	Approximately 3' x 12' x 14.5' (w x l x d)	
Logged By: L. Chipley / C. Buckman	*Checked By:*	J. Petruccione	*Date/Time Finished:* 08/11/04 14:40
Excavating Co.: GRP Mechanical, Inc.	*Weather:*	Partly cloudy, mid 70's	
Excavating Equip.: Ford "Extravator" Rubber Tire Backhoe			

Depth (feet)	Surveyed Elevation (431.10 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	430.10				PID / FID	**TOPSOIL (OL)** Medium stiff, dark brown topsoil, damp	
2	429.10						
3	428.10				0.4 / 1.1	**CLAY (CL)** Stiff, dark brown silty CLAY, damp	
4	427.10						
5	426.10				6.9 / 0.5	color changes to dark gray	
6	425.10						
7	424.10				0.1 / 26.8	color changes to medium-light gray	
8	423.10						
9	422.10						
10	421.10						
11	420.10				3.6 / 726	**Silty CLAY (CL)** Stiff, gray silty CLAY, damp	
12	419.10						
13	418.10				3.8 / 1175	becomes wet	
14	417.10						
	416.60						
15						Bottom of Test Pit at 14.5 feet below ground surface	
16							
17							
18							
19							
20							

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:*** TP-3
	Project Number:	01005-093-400	
	Boring Location:	Hartford Community Center	
		West side of lot	*Sheet:* 1
	Survey Coordinates:	N 791625.19 E 2316523.65	*Date/Time Started:* 08/11/04 8:00
	Size of Excavation:	Approximately 4' x 12' x 15' (w x l x d)	
Logged By: L. Chipley / C. Buckman	*Checked By:*	J. Petruccione	*Date/Time Finished:* 08/11/04 10:00
Excavating Co.: GRP Mechanical, Inc.	*Weather:*	Partly cloudy, mid 70's	
Excavating Equip.: Ford "Extravator" Rubber Tire Backhoe			

Depth (feet)	Surveyed Elevation (430.51 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	429.51				PID / FID	**TOPSOIL (OL)** Medium stiff, dark brown silty CLAY, damp	
2	428.51						
3	427.51				7.6 / 256	**CLAY (CL)** Stiff, dark brown silty CLAY, damp	
4	426.51						
5	425.51				24.6 / 776	color changes to dark gray	
6	424.51						
7	423.51				34.9 / 772	color changes to light gray	
8	422.51					hydrocarbon odor	
9	421.51				>100 / >1000		
10	420.51					color changes to very light gray, hydrocarbon odor	
11	419.51				>228 / >1000	**Sandy Silty CLAY (CL)** Stiff, gray sandy, silty CLAY, damp hydrocarbon odor	
12	418.51						
13	417.51				>141 / >1000		
14	416.51						
15	416.01				>161 / >3000	**CLAY (CL)** Stiff, medium gray clay	
16						Bottom of Test Pit at 15.0 feet below ground surface	
17							
18							
19							
20							

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:*** TP-4
	Project Number:	01005-093-400	
	Boring Location:	Hartford Community Center	
		West side of lot	*Sheet:* 1 of 1
	Survey Coordinates:	N 791507.17 E 2316548.31	*Date/Time Started:* 08/10/04 8:45
	Size of Excavation:	Approximately 20' x 20' x 12' (w x l x d)	
Logged By: L. Chipley / C. Buckman		*Checked By:* J. Petruccione	*Date/Time Finished:* 08/10/04 17:15
Excavating Co.: GRP Mechanical, Inc.		*Weather:* Partly cloudy, mid 70's	
Excavating Equip.: Ford "Extravator" Rubber Tire Backhoe			

Depth (feet)	Surveyed Elevation (431.08 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	430.08				PID / FID	**TOPSOIL (OL)** Medium stiff, dark brown silty CLAY, damp	
2	429.08					**Silty CLAY (ML)** Light gray to gray silty CLAY, damp	
3	428.08				14.1 / 426		
4	427.08				11.9 / 146		
5	426.08					color changes to dark gray	
6	425.08				6.8 / 32	Encountered ~3" steel pipe	
7	424.08				8.6 / 283		
8	423.08				22.3 / >1000		
9	422.08				>25 / >1000		
10	421.08						
11	420.08						
12	419.08						
13						Bottom of Test Pit at 12.0 feet below ground surface	
14							
15							
16							
17							
18							
19							
20							

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:*** TP-6
	Project Number:	01005-093-400	
	Boring Location:	Hartford Community Center	
		West side of lot	*Sheet:* 1
	Survey Coordinates:	N 791646.48 E 2316766.08	*Date/Time Started:* 08/11/04 10:20
	Size of Excavation:	Approximately 4' x 10' x 6' (w x l x d)	
Logged By: L. Chipley / C. Buckman		*Checked By:* J. Petruccione	*Date/Time Finished:* 08/11/04 12:00
Excavating Co.: GRP Mechanical, Inc.		*Weather:* Partly sunny, mid 70's	
Excavating Equip.: Ford "Extravator" Rubber Tire Backhoe			

Depth (feet)	Surveyed Elevation (430.60 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	429.60				PID / FID	**TOPSOIL (OL)** Medium stiff, dark brown, roots, trace small gravel	
2	428.60					**Silty CLAY (ML)** Dark gray to brown silty CLAY, damp	
3	427.60				3.5 / 170	silt content decreases with depth	
4	426.60						
5	425.60				3.8 / 609		
6	424.60					**CLAY (CL)** Gray CLAY, damp	
7						Bottom of Test Pit at 6.0 feet below ground surface	
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

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

Photo 1: View of East side of Test Pit #1.

Photo 2: View of Test Pit #3 at beginning of excavation process.

Photo 3: View showing Test Pit #3 at approximately 5 feet below ground surface.

Photo 4: View of Test Pit #3 at approximately 10 feet below ground surface.

Photo 5: View showing Test Pit #3 at total depth of approximately 15 feet below ground surface.

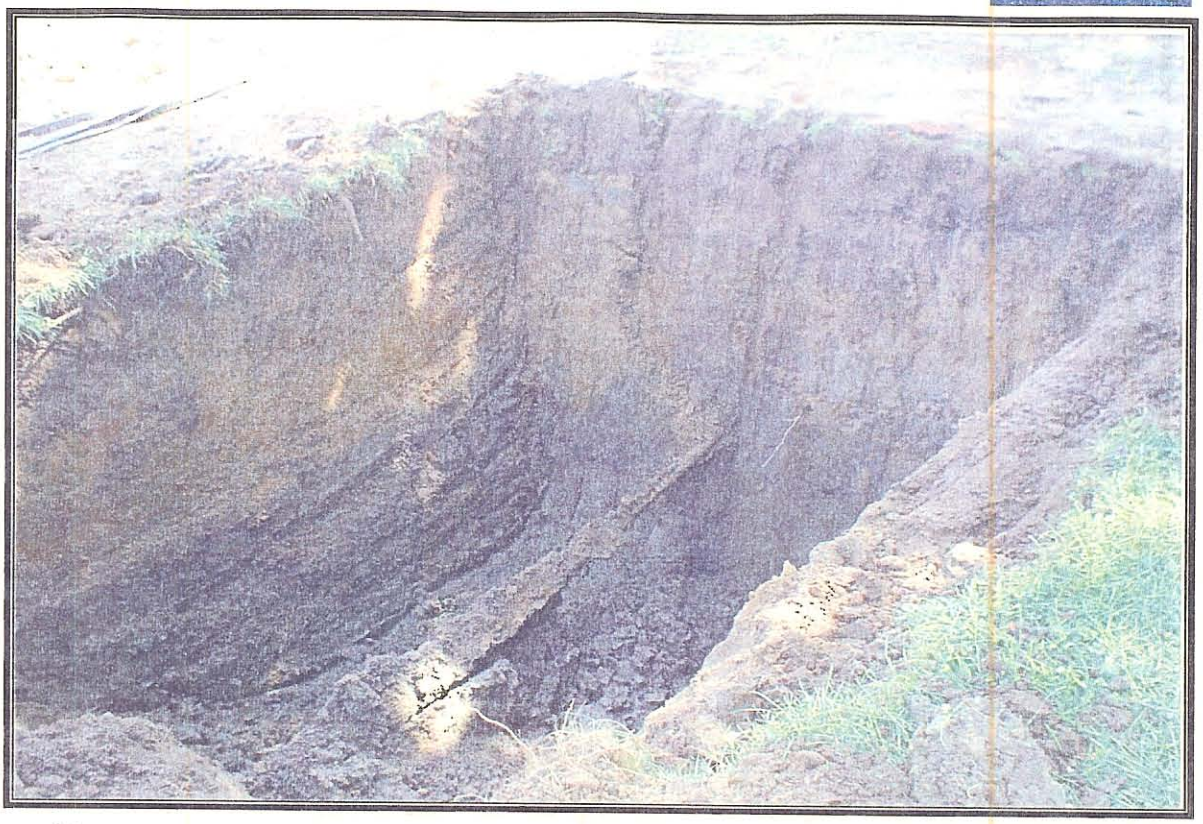


Photo 6: View towards northeast of Test Pit #4 showing exposed pipe at approximately 5 feet below grade.

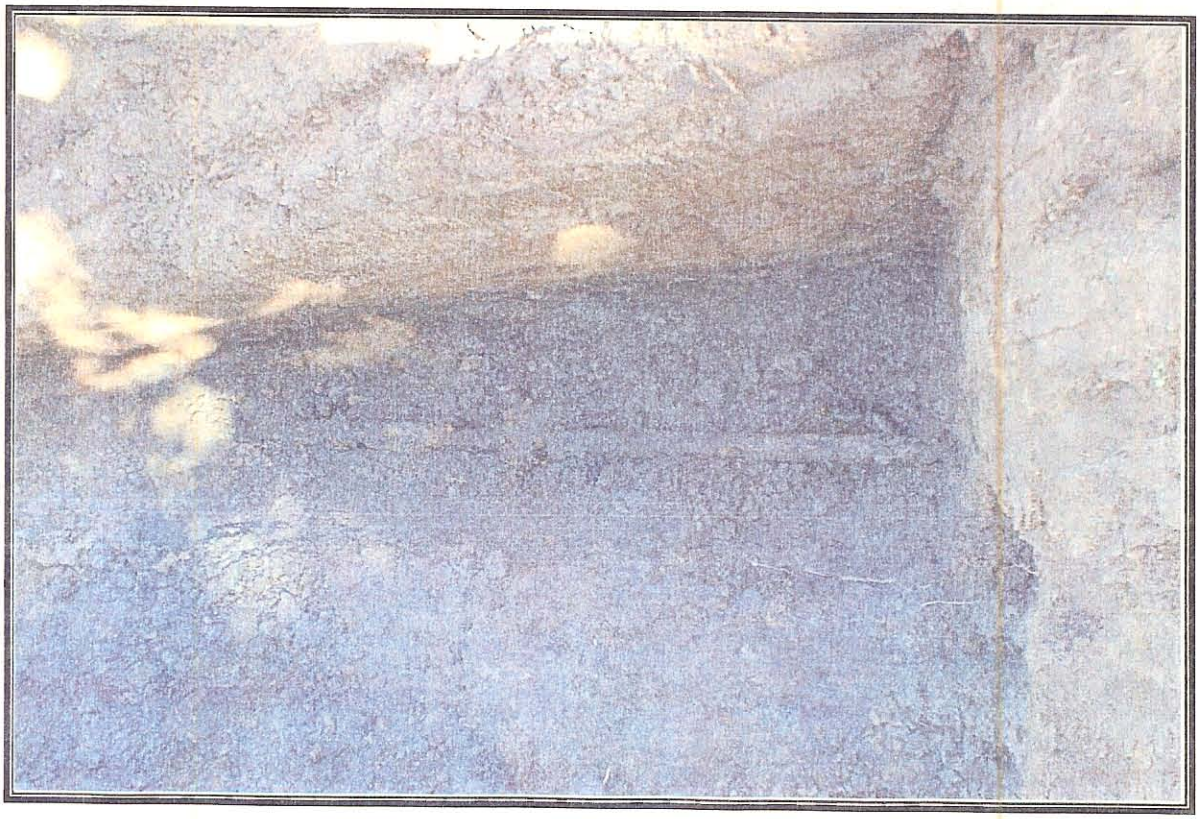


Photo 7: View of exposed pipe and flange in Test Pit #4.

Photo 8: View of exposed pipe and benched sides of Test Pit #4.

Photo 9: View towards west of Test Pit #6.

APPENDIX H

Soil Laboratory Reports – TekLab

APPENDIX H-1

ENSR Reports

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

July 21, 2004

Comm Ctr

Robin Schilling
ENSR Corp.
27755 Diehl Rd.
Warrenville, IL 60555
TEL: (630) 836-1700
FAX: (630) 836-1711

ACCREDITED IN ACCORDANCE WITH nelac

NELAP Accredited #100226

RE: 01005-093-350/Hartford Soil Gas

OrderNo. 04070315

Dear Robin Schilling:

TEKLAB, INC received 1 sample on 7/13/04 1:25:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest that have been tested. IL ELAP and NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP/Part 186 except where noted in the Case Narrative. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Mary Flynn
for

Michael L. Austin
Director of Operations

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: ENSR Corp.
Project: 01005-093-350/Hartford Soil Gas
LabOrder: 04070315
Report Date: July 21, 2004

CASE NARRATIVE

Qualifiers

DF - Dilution Factor	**B** - Analyte detected in the associated Method Blank	**E** - Value above quantitation range
RL - Reporting Limit	**J** - Analyte detected below reporting limits	**H** - Holding time exceeded
ND - Not Detected at the Reporting Limit	**R** - RPD outside accepted recovery limits	**D** - Diluted out of sample
Surr - Surrogate Standard added by lab	**S** - Spike Recovery outside accepted recovery limits	**MI** - Matrix interference
TNTC - Too numerous to count	***** - Value exceeds Maximum Contaminant Level	**DNI** Did Not Ignite
IDPH - Illinois Department of Public Health	**NELAP** - IL ELAP and NELAP Accredited Field of Testing	

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	ENSR Corp.	**Client Project:**	01005-093-350/Hartford Soil Gas
WorkOrder:	04070315	**Client Sample ID:**	VMP-22 (26')
Lab ID:	04070315-001	**Collection Date:**	7/13/04 9:45:00 AM
Report Date:	21-Jul-04	**Matrix:**	SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Organic Matter		0.05		5.10	wt%	1	7/19/04	JRS
Percent Moisture		0.1		26.7	%	1	7/16/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		73.3	%	1	7/16/04	JRS
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Methyl tert-butyl ether	NELAP	2.3		2.6	µg/Kg-dry	1	7/19/04 1:05:00 PM	HLR
Benzene	NELAP	1.2		2.5	µg/Kg-dry	1	7/19/04 1:05:00 PM	HLR
Toluene	NELAP	5.8	J	ND	µg/Kg-dry	1	7/19/04 1:05:00 PM	HLR
Ethylbenzene	NELAP	5.8		ND	µg/Kg-dry	1	7/19/04 1:05:00 PM	HLR
Xylenes, Total	NELAP	5.8	J	ND	µg/Kg-dry	1	7/19/04 1:05:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		107	%REC	1	7/19/04 1:05:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		97.1	%REC	1	7/19/04 1:05:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		98.3	%REC	1	7/19/04 1:05:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		99.3	%REC	1	7/19/04 1:05:00 PM	HLR

CHAIN OF CUSTODY

pg. 1 of 1 Work Order # 910315

TEKLAB, INC. 5445 Horseshoe Lake Road ~ Collinsville, IL 62234 ~ Phone: (618) 344-1004 ~ Fax: (618) 344-1005

Client: ENSR Corp
Address: 27755 Diehl Rd
City / State / Zip: Warrenville, IL 60555
Contact: Robin Schilling Phone: 630/836.1700
E-Mail: rschilling@ensr.com Fax: 630/836.1711

Are the samples chilled? ☐ NO ☒ YES (Ice or Blue Ice)
Cooler Temperature: 7.5 °C
Preserved in: ☐ Lab ☒ Field

Comments: BTEX / MtBE by 8260/5035
organic Carbon by D2974 (OM)

E-MAILED 7-21-04

Are these samples known to be involved in litigation? ☐ Yes ☒ No
Are these samples known to be hazardous? ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?
☐ Yes ☐ No If yes please provide limits in comment section.

Project Name / Number: 01005-093-350 / Hartford Soil Gas
Sample Collector's Name: Laura Chirky
Requested Due Date: Standard TAT
Billing Instructions PO#: Quote # K 829

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNPRES	HNO_3	NaOH	H_2SO_4	HCL	MeOH	$NaHSO_4$	Other	MATRIX: Water	Drinking Water	Soil	Sludge	Sp. Water	INDICATE ANALYSIS REQUESTED: BTEX (5035/8260)	Organic Carbon (D2974)
0407031 5-001	VMP-22 (26')	7/13/04 0945	1					1	2				X			X	X

Relinquished By	Date / Time	Received By	Date / Time
[signature]	7/13/04 1325	Heather Barnes	7/13/04 1325

The individual signing this agreement on behalf of client acknowledges that he/she has read and understands the terms and conditions of this agreement, on the reverse side, and that he/she has the authority to sign on behalf of client.

TEKLAB, INC

Sample Receipt Checklist

Client Name ENSR-WARRENVILLE

Date and Time Receive 7/13/04 1:25:00 PM

Work Order Numbe 04070315

Received by: HAB

Checklist completed by Elizabeth A. Weiss 7/13/04 (Signature / Date)

Reviewed by SAO 7/13/04 (Initials / Date)

Matrix:

Carrier name: Robin Schilling

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the Case Narrative or on the Chain of Custody.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

July 26, 2004

Robin Schilling
ENSR Corp.
27755 Diehl Rd.
Warrenville, IL 60555
TEL: (630) 836-1700
FAX: (630) 836-1711

ACCREDITED IN ACCORDANCE WITH nelap

NELAP Accredited #100226

RE: Hartford, IL - Physical Properties

OrderNo. 04070414

Dear Robin Schilling:

TEKLAB, INC received 1 sample on 7/15/04 5:00:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest that have been tested. IL ELAP and NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP/Part 186 except where noted in the Case Narrative. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Michael L. Austin
Director of Operations

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: ENSR Corp.
Project: Hartford, IL - Physical Properties
LabOrder: 04070414
Report Date: July 26, 2004

CASE NARRATIVE

The samples were out of temperature compliance upon receipt. Per client, continue with analysis.
Analytical Comments for METHOD SC_PMOIST, SAMPLE 04070414-001A: Analysis performed by Shively Geotechnical, Inc.
Analytical Comments for METHOD SC_D2937_BULKDENSITY, SAMPLE 04070414-001A: Analysis performed by Shively Geotechnical, Inc.
Analytical Comments for METHOD SC_D854_SPECGRAV, SAMPLE 04070414-001A: Analysis performed by Shively Geotechnical, Inc.
Analytical Comments for METHOD SC_SIEVE, SAMPLE 04070414-001A: Analysis performed by Shively Geotechnical, Inc.
Analytical Comments for METHOD SC_POROSITY_S, SAMPLE 04070414-001A: Analysis performed by Shively Geotechnical, Inc.

Qualifiers

DF - Dilution Factor	**B** - Analyte detected in the associated Method Blank	**E** - Value above quantitation range
RL - Reporting Limit	**J** - Analyte detected below reporting limits	**H** - Holding time exceeded
ND - Not Detected at the Reporting Limit	**R** - RPD outside accepted recovery limits	**D** - Diluted out of sample
Surr - Surrogate Standard added by lab	**S** - Spike Recovery outside accepted recovery limits	**MI** - Matrix interference
TNTC - Too numerous to count	***** - Value exceeds Maximum Contaminant Level	**DNI** Did Not Ignite
IDPH - Illinois Department of Public Health	**NELAP** - IL ELAP and NELAP Accredited Field of Testing	

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: ENSR Corp.
WorkOrder: 04070414
Lab ID: 04070414-001
Report Date: 26-Jul-04

Client Project: Hartford, IL - Physical Properties
Client Sample ID: PMP-18 (13.5-15)
Collection Date: 7/15/04 10:00:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.100	H	31.5	%	1	7/23/04	SUB
DRY UNIT WEIGHT								
Dry Unit Weight		0.1	H	87.0	lbs/ft³	1	7/23/04	SUB
SOIL POROSITY								
Porosity				See Attached		1	7/23/04	SUB
SPECIFIC GRAVITY								
Specific Gravity		0.10	H	2.70		1	7/23/04	SUB
WET FINES SIEVE ANALYSIS								
Wet Fines Sieve Analysis		0		See Attached	Mesh	1	7/23/04	SUB

Shively Geotechnical, Inc.

July 23, 2004
Project No. SG11-3118

Mike Austin
Teklab, Inc.
5445 Horseshoe Lake Road
Collinsville, Illinois 62234

Subject: Geotechnical Laboratory Testing
Sample ID: 04070414-001A
P.O. Number: 9398

Dear Mr. Austin:

Please find the attached results of geotechnical testing performed on a sample provided to Shively Geotechnical by Teklab, Inc. The sample was submitted for particle size analysis, natural moisture, specific gravity, bulk density measurements and porosity calculations.

Testing was performed in accordance with the following American Society for Testing and Materials (ASTM) test methods: Particle size analysis procedure - D 422; Specific Gravity - D 854; Moisture Content - D 2216; and Unit Weight - ASTM D 2937. Porosity was calculated using soil-mass relationships. You will find a table with test results, a Grain Size Distribution curve as well as the porosity calculation worksheet enclosed.

We appreciate the opportunity to be of service to Teklab, Inc. Please let us know if you have any questions or if we can be of further assistance.

Sincerely,

Shively Geotechnical, Inc.

Janet M. May
Technical Services Manager

Attachments

11 French Village Industrial Park
Fairview Heights, Illinois 62208
618/398-1414 Fax: 618/398-1492

11726 St. Charles Rock Road, Suite E
St. Louis, Missouri 63044
314/770-1001 Fax: 314/770-1046

2110 North Grand Avenue, East
Springfield, Illinois 62702
217/793-2700 Fax: 217/793-2610

E-mail: mail@shivelygeotech.com

LABORATORY TEST RESULTS
FOR
TEKLAB, INC.

SAMPLE ID: 04070414-001A

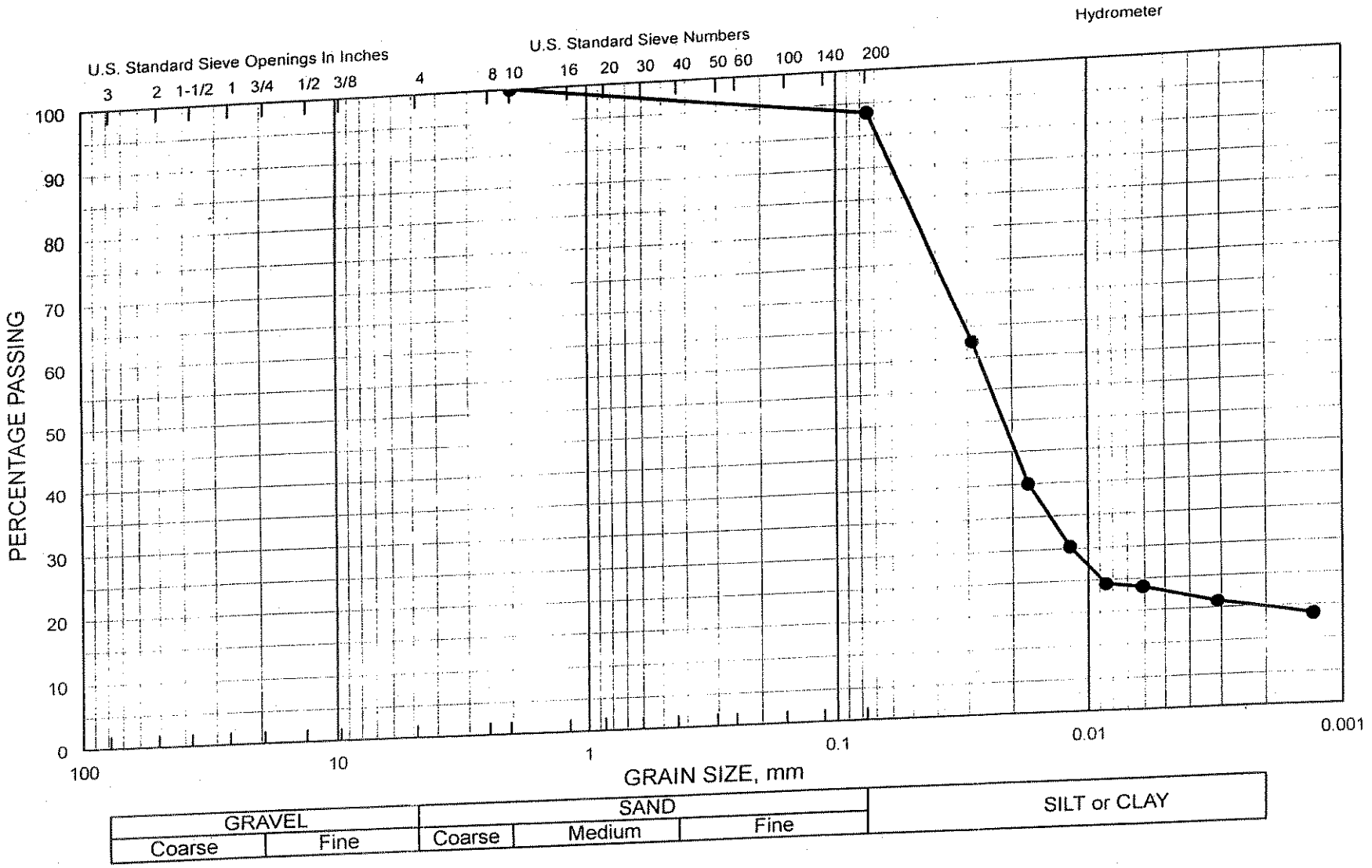
Boring Number	Sample Depth (Feet)	Moisture Content, % (ASTM D 2216)	Dry Unit Weight, pcf (ASTM D 2937)	Specific Gravity (ASTM D 854)	Total Porosity, %	Water Filled Porosity, %	Air Filled Porosity, %
PMP-18	13.5	31.5	87.0	2.70	48.4	43.9	4.4

% - Percent
pcf - Pounds per cubic foot

Note: Porosity values not representative of effective porosity.

July 23, 2004
Project No. SG11-3118
Shively Geotechnical, Inc.

GRAIN SIZE DISTRIBUTION



PROJECT NUMBER: SG11-3118 BORING: PMP-18 PROJECT: Purchase Order #9398

DATE: July 23, 2004 SAMPLE: 04070414-001A

CURVE NUMBER: 1 DEPTH Ft.: 13.5 DESCRIPTION: Dark Gray-Brown Clayey SILT, ML-CL

Shively Geotechnical Inc.
618-398-1414

Va = Volume of air
Vw = Volume of water
Vv = Volume of voids
Vd - Volume of dry soil
V = Total volume
Ma = Mass of air (=0)
Mw = Mass of water
Md = Mass of dry soil
M = Total mass

	Volume		Mass
Volume of Voids	Va	AIR	Ma=0
	Vw	WATER	Mw
	Vd	SOIL	Md
	V	Total	M

Project No.:	SG11-3118		
Boring No.:	PMP-18		
Depth (Feet):	13.5		
Height	8.809	in.	
Diameter	1.650	in.	
Weight	566.0	gms	
Volume	308.66	cc	
DENSITY WET	114.5	pcf	
DENSITY DRY	87.0	pcf	
Wet + Tare	138.20	gms	
Dry + Tare	111.86	gms	
Tare	28.27	gms	
MC, %	31.5		

	Volume (cc)		Mass (gms)
	13.67	AIR	0.00
149.27	135.61	WATER	135.61
	159.39	SOIL	430.35
	308.66	Total	565.96

Specific Gravity = 2.70

Void Ratio (e) = Vv/Vd
= 0.937

Total Porosity (n) = Vv/V
n (Total) = 48.4 %

Water Filled Porosity (n) = Vw/V
n (Total) = 43.9 %

Air Filled Porosity (n) = Va/V
n (Total) = 4.4 %

NOTE: Values not representative of effective porosity.

CHAIN-OF-CUSTODY RECORD

TEKLAB, INC
5445 Horseshoe Lake Road
Collinsville, IL 62234-
(618) 344-1004

Subcontractor:
Shively Geotechnical, Inc.
11 French Village Industrial
Fairview Heights, IL 62208

TEL: (618) 398-1414
FAX:

Acct #: 9398

16-Jul-04

Sample ID	Matrix	Collection Date	Bottle Type	Requested Tests						
				D2937	D422	D854	POROSITY	Total Solids		
04070414-001A	Solid	7/15/04 10:00:00 AM	MISC	1	1	1	1			

Comments: Please analyze these samples by 7/22/04. After analysis, the samples do not need to be returned and can be disposed per your standard laboratory practices. Thanks

		Date/Time			Date/Time
Relinquished by:	[signature]	7/16/04 1410	**Received by:**	[signature]	7/16/04 14:10
Relinquished by:	[signature]	7/16/04 14:40	**Received by:**	[signature]	7/16/04 14:40

CHAIN OF CUSTODY

pg. 1 of 1 Work Order # 70414

TEKLAB, INC. 5445 Horseshoe Lake Road ~ Collinsville, IL 62234 ~ Phone: (618) 344-1004 ~ Fax: (618) 344-1005

Client: ENSR
Address: 27755 DIEHL ROAD #100
City / State / Zip: WARRENVILLE, IL 60555
Contact: Robin Schilling Phone: 630-836-1700
E-Mail: rschilling@ensr.com Fax: 630-836-1711

Are the samples chilled? ☒ NO ☐ YES (Ice or Blue Ice)
Cooler Temperature: 33.8 °C
Preserved in: ☐ Lab ☐ Field

Comments:
GEOTECH
continue w/ analysis out of temp. compliance
HMB

Are these samples known to be involved in litigation? ☐ Yes ☒ No
Are these samples known to be hazardous? ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?
☐ Yes ☐ No If yes please provide limits in comment section.

Project Name / Number:
Sample Collector's Name: P. ELLIOTT
Requested Due Date: STANDARD
Billing Instructions PO#:

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNPRES	HNO_3	NaOH	H_2SO_4	HCL	MeOH	$NaHSO_4$	Other	MATRIX: Water	Drinking Water	Soil	Sludge	Sp. Water	INDICATE ANALYSIS REQUESTED: Specific Gravity	Dry Bulk Density	Porosity	Total Solids	Wet Fines Sieve Analysis
04670414.001	PMP-18 (13.5-15)	7/15/04 1000	X										X			X	X	X	X	X

Relinquished By	Date / Time	Received By	Date / Time
Paytha Elliott	7/15/04 1700	Bradley Barnes	7/15/04 1700

The individual signing this agreement on behalf of client acknowledges that he/she has read and understands the terms and conditions on the reverse side, and that he/she has the authority to sign on behalf of client.

TEKLAB, INC

Sample Receipt Checklist

Client Name ENSR-WARRENVILLE

Date and Time Receive 7/15/04 5:00:00 PM

Work Order Numbe 04070414

Received by: HAB

Checklist completed by Joshua Barnes 7/16/04 (Signature / Date)

Reviewed by SAO 7/16/04 (Initials / Date)

Matrix:

Carrier name: Employee

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☐	No ☑	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the Case Narrative or on the Chain of Custody.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

July 27, 2004

Corner of Birch + Old St Louis Rd

Robin Schilling
ENSR Corp.
27755 Diehl Rd.
Warrenville, IL 60555
TEL: (630) 836-1700
FAX: (630) 836-1711

ACCREDITED IN ACCORDANCE WITH nelap

NELAP Accredited #100226

RE: Hartford

OrderNo. O4070644

Dear Robin Schilling:

TEKLAB, INC received 1 sample on 7/23/04 3:00:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest that have been tested. IL ELAP and NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP/Part 186 except where noted in the Case Narrative. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Michael L. Austin
Director of Operations

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	ENSR Corp.	**Client Project:**	Hartford
WorkOrder:	04070644	**Client Sample ID:**	VMP-21-(29-30)
Lab ID:	04070644-001	**Collection Date:**	7/23/04 11:00:00 AM
Report Date:	27-Jul-04	**Matrix:**	SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		20.2	%	1	7/26/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		79.8	%	1	7/26/04	JRS
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Methyl tert-butyl ether	NELAP	184		ND	µg/Kg-dry	50	7/27/04 12:58:00 AM	HLR
Benzene	NELAP	91.9		408	µg/Kg-dry	50	7/27/04 12:58:00 AM	HLR
Toluene	NELAP	459		6980	µg/Kg-dry	50	7/27/04 12:58:00 AM	HLR
Ethylbenzene	NELAP	459		10300	µg/Kg-dry	50	7/27/04 12:58:00 AM	HLR
Xylenes, Total	NELAP	459		43900	µg/Kg-dry	50	7/27/04 12:58:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		101	%REC	50	7/27/04 12:58:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		100	%REC	50	7/27/04 12:58:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		94.3	%REC	50	7/27/04 12:58:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		99.1	%REC	50	7/27/04 12:58:00 AM	HLR

CHAIN OF CUSTODY

pg. 1 of 1 Work Order # 70644

TEKLAB, INC. 5445 Horseshoe Lake Road ~ Collinsville, IL 62234 ~ Phone: (618) 344-1004 ~ Fax: (618) 344-1005

Client: ENSR
Address: 27755 DIEHL ROAD #100
City / State / Zip: WARRENVILLE, IL 60555
Contact: Robin Schilling Phone: 630-836-1700
E-Mail: rschilling@ensr.com Fax: 630-836-1711

Are the samples chilled? ☐ NO ☒ YES (Ice or Blue Ice)
Cooler Temperature: 4.1 °C
Preserved in: ☐ Lab ☒ Field
Comments:

Are these samples known to be involved in litigation? ☐ Yes ☒ No
Are these samples known to be hazardous? ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?
☐ Yes ☐ No If yes please provide limits in comment section.

Project Name / Number: HARTFORD
Sample Collector's Name: P. Elliott
Requested Due Date: STANDARD
Billing Instructions PO#:

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNPRES	HNO_3	NaOH	H_2SO_4	HCL	MeOH	$NaHSO_4$	Other	MATRIX: Water	Drinking Water	Soil	Sludge	Sp. Water	INDICATE ANALYSIS REQUESTED: BTEX	MTBE
M4070644-001	VMP-21-(29-30)	7/23/04 1100	1					1					X			X	X

Relinquished By	Date / Time	Received By	Date / Time
Paytha Elliott	7/23/04 1500	Elizabeth A. Weber	7/23/04 1500

The individual signing this agreement on behalf of client acknowledges that he/she has read and understands the terms and conditions of this agreement, on the reverse side, and that he/she has the authority to sign on behalf of client.

TEKLAB, INC

Sample Receipt Checklist

Client Name ENSR-WARRENVILLE

Date and Time Receive 7/23/04 3:00:00 PM

Work Order Numbe 04070644

Received by: EAW

Checklist completed by Elizabeth A. Weber 7/23/04 (Signature / Date)

Reviewed by SKO 7/23/04 (Initials / Date)

Matrix:

Carrier name: Paytha Elliott

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the Case Narrative or on the Chain of Custody.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

August 02, 2004

Robin Schilling
ENSR Corp.
27755 Diehl Rd.
Warrenville, IL 60555
TEL: (630) 836-1700
FAX: (630) 836-1711

ACCREDITED IN ACCORDANCE WITH nelac

NELAP Accredited #100226

RE: Hartford

OrderNo. 04070521

Dear Robin Schilling:

TEKLAB, INC received 4 samples on 7/20/04 5:00:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest that have been tested. IL ELAP and NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP/Part 186 except where noted in the Case Narrative. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Michael L. Austin
Director of Operations

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Client: ENSR Corp.
Project: Hartford
LabOrder: 04070521
Report Date: August 02, 2004

CASE NARRATIVE

Analytical Comments for METHOD SC_D2937_BULKDENSITY, SAMPLE 04070521-001A, 002A, 003A, 004A: Analysis performed by Shively Geotechnical, Inc.
Analytical Comments for METHOD SC_D854_SPECGRAV, SAMPLE 04070521-001A, 002A, 003A, 004A: Analysis performed by Shively Geotechnical, Inc.
Analytical Comments for METHOD SC_PMOIST, SAMPLE 04070521-001A, 002A, 003A, 004A: Analysis performed by Shively Geotechnical, Inc.
Analytical Comments for METHOD SC_POROSITY_S, SAMPLE 04070521-001A, 002A, 003A, 004A: Analysis performed by Shively Geotechnical, Inc.
Analytical Comments for METHOD SC_SIEVE, SAMPLE 04070521-001A, 002A, 003A, 004A: Analysis performed by Shively Geotechnical, Inc.

Qualifiers

DF - Dilution Factor	**B** - Analyte detected in the associated Method Blank	**E** - Value above quantitation range
RL - Reporting Limit	**J** - Analyte detected below reporting limits	**H** - Holding time exceeded
ND - Not Detected at the Reporting Limit	**R** - RPD outside accepted recovery limits	**D** - Diluted out of sample
Surr - Surrogate Standard added by lab	**S** - Spike Recovery outside accepted recovery limits	**MI** - Matrix interference
TNTC - Too numerous to count	***** - Value exceeds Maximum Contaminant Level	**DNI** Did Not Ignite
IDPH - Illinois Department of Public Health	**NELAP** - IL ELAP and NELAP Accredited Field of Testing	

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	ENSR Corp.	**Client Project:**	Hartford
WorkOrder:	04070521	**Client Sample ID:**	VMP-24M-(7.5-9)
Lab ID:	04070521-001	**Collection Date:**	7/20/04
Report Date:	02-Aug-04	**Matrix:**	SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.100	H	**29.7**	%	1	7/30/04	SUB
DRY UNIT WEIGHT								
Dry Unit Weight		0.1	H	**84.3**	lbs/ft³	1	7/30/04	SUB
SOIL POROSITY								
Porosity				**See Attached**		1	7/30/04	SUB
SPECIFIC GRAVITY								
Specific Gravity		0.10	H	**2.70**		1	7/30/04	SUB
WET FINES SIEVE ANALYSIS								
Wet Fines Sieve Analysis		0		**See Attached**	Mesh	1	7/30/04	SUB

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	ENSR Corp.	**Client Project:**	Hartford
WorkOrder:	04070521	**Client Sample ID:**	VMP-24M-(13-14)
Lab ID:	04070521-002	**Collection Date:**	7/20/04
Report Date:	02-Aug-04	**Matrix:**	SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.100	H	**32.7**	%	1	7/30/04	SUB
DRY UNIT WEIGHT								
Dry Unit Weight		0.1	H	**81.0**	lbs/ft³	1	7/30/04	SUB
SOIL POROSITY								
Porosity				**See Attached**		1	7/30/04	SUB
SPECIFIC GRAVITY								
Specific Gravity		0.10	H	**2.70**		1	7/30/04	SUB
WET FINES SIEVE ANALYSIS								
Wet Fines Sieve Analysis		0		**See Attached**	Mesh	1	7/30/04	SUB

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	ENSR Corp.	**Client Project:**	Hartford
WorkOrder:	04070521	**Client Sample ID:**	VMP-24M-(18.5-21)
Lab ID:	04070521-003	**Collection Date:**	7/20/04
Report Date:	02-Aug-04	**Matrix:**	SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.100	H	**42.1**	%	1	7/30/04	SUB
DRY UNIT WEIGHT								
Dry Unit Weight		0.1	H	**78.2**	lbs/ft³	1	7/30/04	SUB
SOIL POROSITY								
Porosity				**See Attached**		1	7/30/04	SUB
SPECIFIC GRAVITY								
Specific Gravity		0.10	H	**2.76**		1	7/30/04	SUB
WET FINES SIEVE ANALYSIS								
Wet Fines Sieve Analysis		0		**See Attached**	Mesh	1	7/30/04	SUB

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: ENSR Corp.
WorkOrder: 04070521
Lab ID: 04070521-004
Report Date: 02-Aug-04

Client Project: Hartford
Client Sample ID: VMP-25M-(16-18)
Collection Date: 7/20/04
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.100	H	**36.5**	%	1	7/30/04	SUB
DRY UNIT WEIGHT								
Dry Unit Weight		0.1	H	**84.1**	lbs/ft³	1	7/30/04	SUB
SOIL POROSITY								
Porosity				**See Attached**		1	7/30/04	SUB
SPECIFIC GRAVITY								
Specific Gravity		0.10	H	**2.72**		1	7/30/04	SUB
WET FINES SIEVE ANALYSIS								
Wet Fines Sieve Analysis		0		**See Attached**	Mesh	1	7/30/04	SUB

CHAIN OF CUSTODY

pg. 1 of 1 Work Order # 70521

TEKLAB, INC. 5445 Horseshoe Lake Road ~ Collinsville, IL 62234 ~ Phone: (618) 344-1004 ~ Fax: (618) 344-1005

Client: ENSR
Address: 27755 DIEHL ROAD
City / State / Zip: WARRENVILLE, IL 60555
Contact: Robin Schilling Phone: 630-836-1700
E-Mail: rschilling@ensr.com Fax: 630-836-1711

Are the samples chilled? ☐ NO ☒ YES (Ice or Blue Ice)
Cooler Temperature: 6.2 °C
Preserved in: ☐ Lab ☒ Field
Comments:

Are these samples known to be involved in litigation? ☐ Yes ☒ No
Are these samples known to be hazardous? ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?
☐ Yes ☒ No If yes please provide limits in comment section.

Project Name / Number: HARTFORD
Sample Collector's Name: P. ELLIOTT
Requested Due Date: STANDARD
Billing Instructions PO#:

Lab Use Only	Sample Identification	Date/Time Sampled	UNPRES	HNO_3	NaOH	H_2SO_4	HCL	MeOH	$NaHSO_4$	Other	Water	Drinking Water	Soil	Sludge	Sp. Water	Sp Gravity	Dry Bulk Density	Porosity	Wet Fine Sieve	Total Solids
04070521-001	VMP-24M-(7.5-9)	7/20/04	X										X			X	X	X	X	X
002	VMP-24M-(13-14)	7/20/04	X										X			X	X	X	X	X
003	VMP-24M-(18.5-21)	7/20/04	X										X			X	X	X	X	X
004	VMP-25M-(16-18)	7/20/04	X										X			X	X	X	X	X

Relinquished By	Date / Time	Received By	Date / Time
Partha Elliott	7/20/04 1700	Heather Barnes	7/20/04 1700

The individual signing this agreement on behalf of client acknowledges that he/she has read and understands the terms and conditions of this agreement, on the reverse side, and that he/she has the authority to sign on behalf of client.

TEKLAB, INC

Sample Receipt Checklist

Client Name ENSR-WARRENVILLE

Date and Time Receive 7/21/04 5:00:00 PM

Work Order Numbe 04070521

Received by: HAB

Checklist completed by Elizabeth A. Weber 7/21/04
Signature Date

Reviewed by AV 7/21/04
Initials Date

Matrix:

Carrier name: Employee

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the Case Narrative or on the Chain of Custody.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Shively Geotechnical, Inc.

July 30, 2004
Project No. SG11-3124

Mike Austin
Teklab, Inc.
5445 Horseshoe Lake Road
Collinsville, Illinois 62234

Subject: Geotechnical Laboratory Testing
Sample ID: 04070521 (001A-004A)
P.O. Number: 9408

Dear Mr. Austin:

Please find the attached results of geotechnical testing performed on four samples provided to Shively Geotechnical by Teklab, Inc. The samples were submitted for particle size analysis, natural moisture, specific gravity, bulk density measurements and porosity calculations.

Testing was performed in accordance with the following American Society for Testing and Materials (ASTM) test methods: Particle size analysis procedure - D 422; Specific Gravity - D 854; Moisture Content - D 2216; and Unit Weight - ASTM D 2937. Porosity was calculated using soil-mass relationships. You will find a table with test results, a Grain Size Distribution curves as well as the porosity calculation worksheets enclosed.

We appreciate the opportunity to be of service to Teklab, Inc. Please let us know if you have any questions or if we can be of further assistance.

Sincerely,

Shively Geotechnical, Inc.

Janet M. May
Technical Services Manager

Attachments

11 French Village Industrial Park
Fairview Heights, Illinois 62208
618/398-1414 Fax: 618/398-1492

11726 St. Charles Rock Road, Suite E
St. Louis, Missouri 63044
314/770-1001 Fax: 314/770-1046

2110 North Grand Avenue, East
Springfield, Illinois 62702
217/793-2700 Fax: 217/793-2610

E-mail: mail@shivelygeotech.com

LABORATORY TEST RESULTS
FOR
TEKLAB, INC.

SAMPLE ID: 04070521

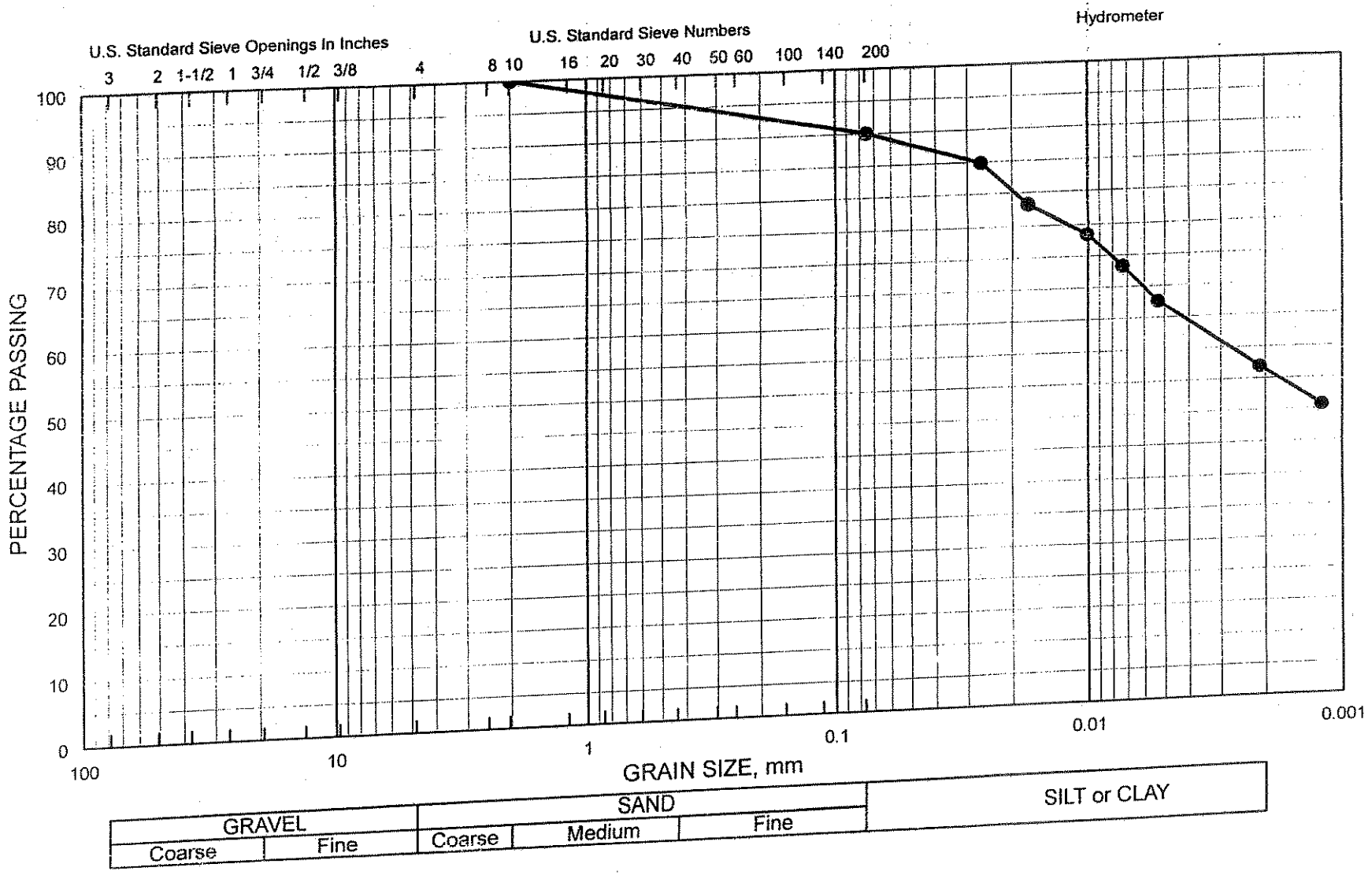
Boring Number	Sample Number	Sample Depth (Feet)	Moisture Content, % (ASTM D 2216)	Dry Unit Weight, pcf (ASTM D 2937)	Specific Gravity (ASTM D 854)	Total Porosity, %	Water Filled Porosity, %	Air Filled Porosity, %
VMP-24-M	001A	7.5 – 9.0	29.7	84.3	2.70	50.0	40.2	9.8
VMP-24-M	002A	13.5 – 14.5	32.7	81.0	2.70	52.0	42.4	9.6
VMP-24-M	003A	18.5 – 21.0	42.1	78.2	2.76	54.6	52.7	1.9
VMP-25-M	004A	16.0 – 18.0	36.5	84.1	2.72	50.5	49.2	1.3

% - Percent
pcf - Pounds per cubic foot

Note: Porosity values not representative of effective porosity.

July 30, 2004
Project No. SG11-3124
Shively Geotechnical, Inc.

GRAIN SIZE DISTRIBUTION



PROJECT NUMBER: SG11-3124 BORING: VMP-24-M PROJECT: Purchase Order #9408

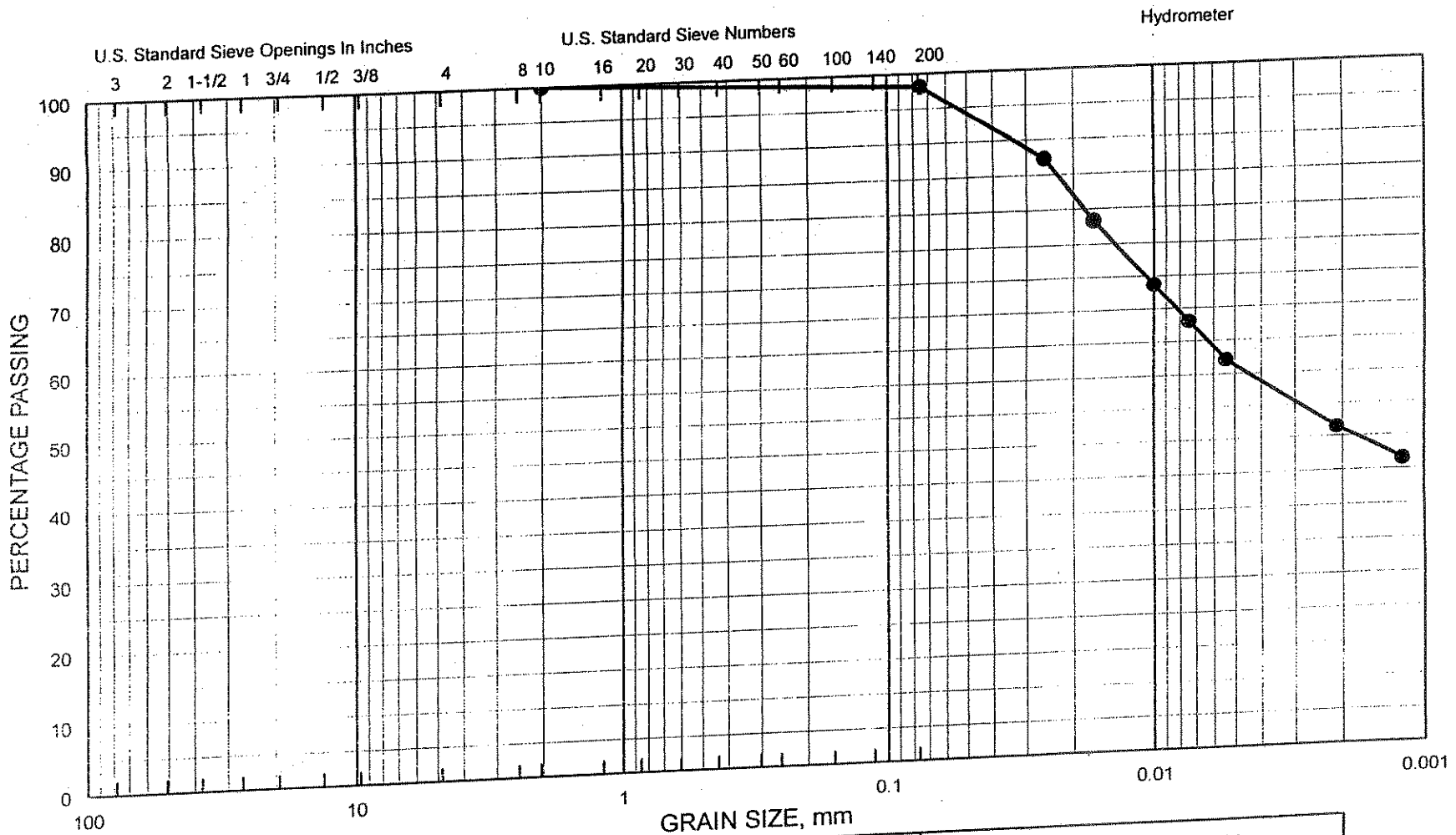
DATE: July 28, 2004 SAMPLE: 001A

CURVE NUMBER: 1 DEPTH Ft.: 7.5 - 9.5 DESCRIPTION: Very Dark Gray CLAY, CH

Shively Geotechnical Inc.

398-1414

GRAIN SIZE DISTRIBUTION



GRAVEL		SAND			SILT or CLAY
Coarse	Fine	Coarse	Medium	Fine	

PROJECT NUMBER: SG11-3124 BORING: VMP-24-M PROJECT: Purchase Order #9408

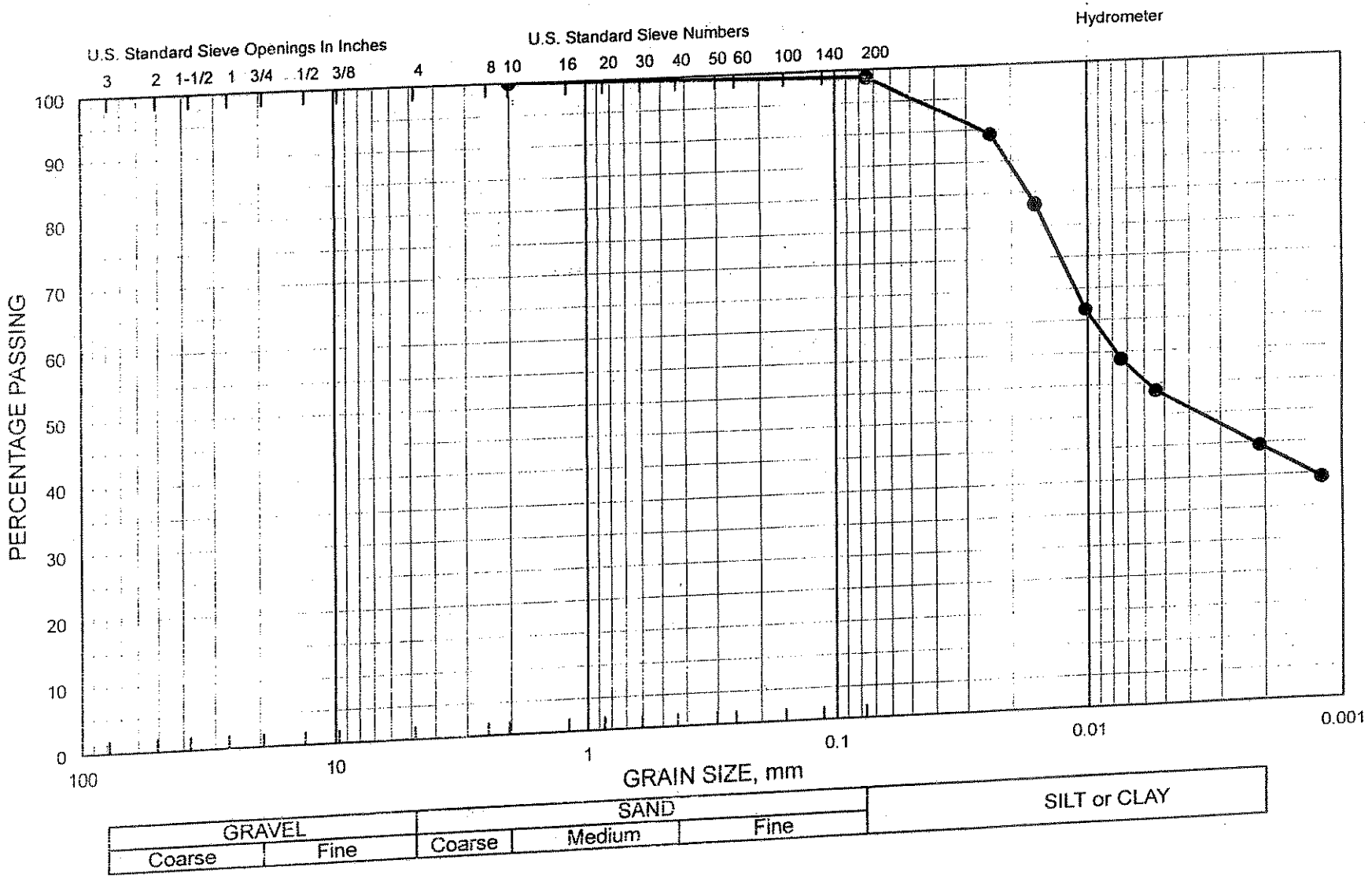
DATE: July 28, 2004 SAMPLE: 002A

CURVE NUMBER: 2 DEPTH Ft.: 13.5 - 14.5 DESCRIPTION: Dark Gray CLAY, CH

Shively Geotechnical Inc.

618-398-1414

GRAIN SIZE DISTRIBUTION



PROJECT NUMBER: SG11-3124 BORING: VMP-24-M PROJECT: Purchase Order #9408

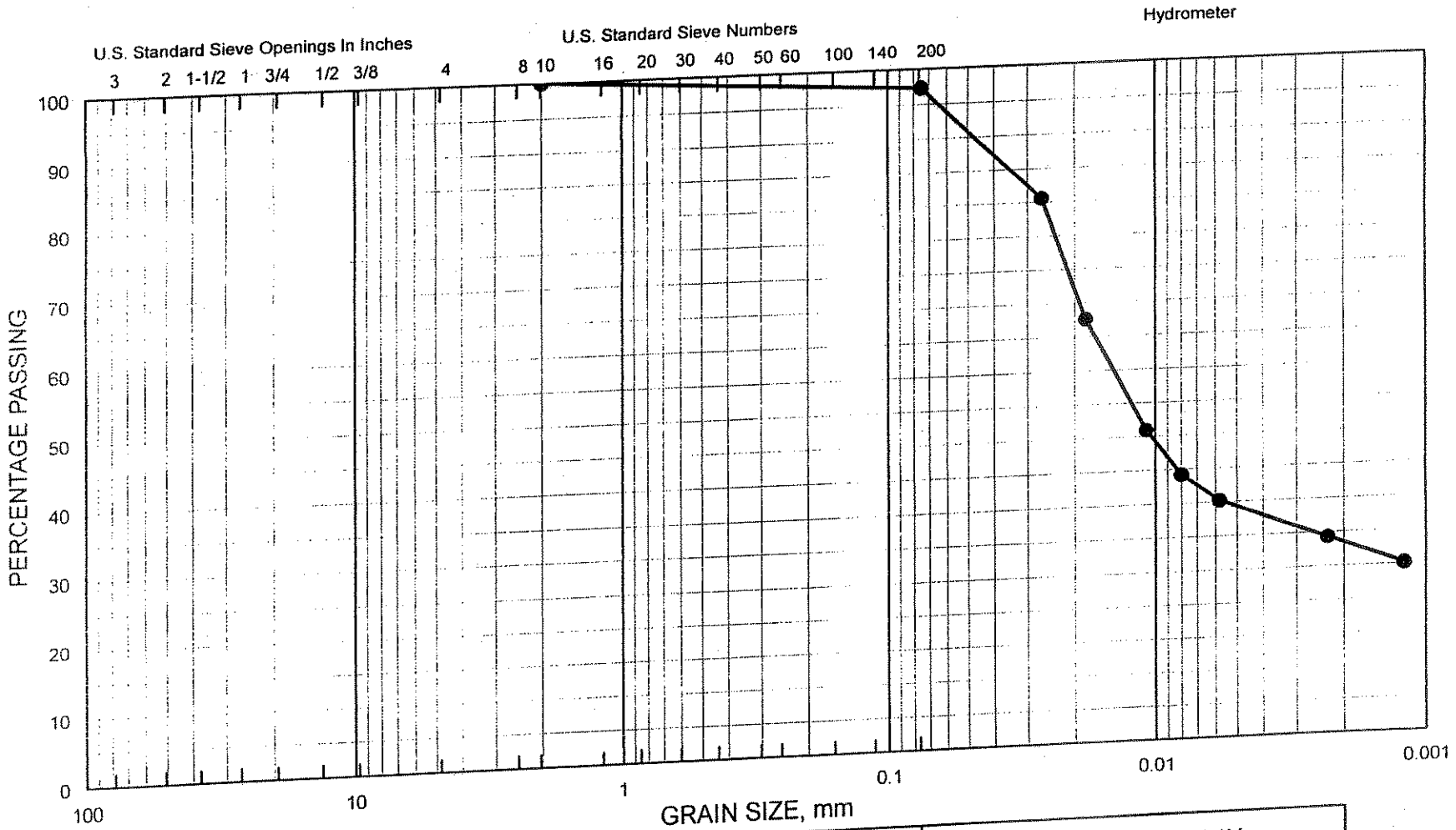
DATE: July 28, 2004 SAMPLE: 003A

CURVE NUMBER: 3 DEPTH Ft.: 18.5 - 21.0 DESCRIPTION: Gray CLAY, with Silty Clay Lenses, CH

Shively Geotechnical Inc.

398-1414

GRAIN SIZE DISTRIBUTION



GRAVEL		SAND			SILT or CLAY
Coarse	Fine	Coarse	Medium	Fine	

PROJECT NUMBER: SG11-3124 BORING: VMP-25-M PROJECT: Purchase Order #9408

DATE: July 28, 2004 SAMPLE: 004A

CURVE NUMBER: 4 DEPTH Ft.: 16.0 - 18.0 DESCRIPTION: Gray Clayey SILT, ML/CL

Shively Geotechnical Inc.

618-398-1414

Va = Volume of air
Vw = Volume of water
Vv = Volume of voids
Vd - Volume of dry soil
V = Total volume
Ma = Mass of air (=0)
Mw = Mass of water
Md = Mass of dry soil
M = Total mass

	Volume		Mass
Volume of Voids	Va	AIR	Ma=0
	Vw	WATER	Mw
	Vd	SOIL	Md
	V	Total	M

Project No.:	SG11-3124	
Boring No.:	VMP-24-M	
Sample No.:	04070521-001A	
Depth (Feet):	7.5 - 9.0	
Height	8.239	in.
Diameter	1.660	in.
Weight	512.2	gms
Volume	292.20	cc
DENSITY WET	109.4	pcf
DENSITY DRY	84.3	pcf
Wet + Tare	144.54	gms
Dry + Tare	117.85	gms
Tare	28.09	gms
MC, %	29.7	

	Volume (cc)		Mass (gms)
	28.59	AIR	0.00
145.98	117.39	WATER	117.39
	146.22	SOIL	394.79
	292.20	Total	512.18

Specific Gravity = 2.70

Void Ratio (e) = Vv/Vd
= 0.998

Total Porosity (n) = Vv/V
n (Total) = 50.0 %

Water Filled Porosity (n) = Vw/V
n (Total) = 40.2 %

Air Filled Porosity (n) = Va/V
n (Total) = 9.8 %

NOTE: Values not representative of effective porosity.

Va = Volume of air
Vw = Volume of water
Vv = Volume of voids
Vd - Volume of dry soil
V = Total volume
Ma = Mass of air (=0)
Mw = Mass of water
Md = Mass of dry soil
M = Total mass

	Volume		Mass
Volume of Voids	Va	AIR	Ma=0
	Vw	WATER	Mw
	Vd	SOIL	Md
	V	Total	M

Project No.:	SG11-3124
Boring No.:	VMP-24-M
Sample No.:	04070521-002A
Depth (Feet):	13.5 - 14.5
Height	6.986 in.
Diameter	1.650 in.
Weight	421.2 gms
Volume	244.79 cc
DENSITY WET	107.4 pcf
DENSITY DRY	81.0 pcf
Wet + Tare	131.18 gms
Dry + Tare	105.80 gms
Tare	28.07 gms
MC, %	32.7

	Volume (cc)		Mass (gms)
	23.52	AIR	0.00
127.19	103.67	WATER	103.67
	117.59	SOIL	317.50
	244.79	Total	421.17

Specific Gravity = 2.70

Void Ratio (e) = Vv/Vd
= 1.082

Total Porosity (n) = Vv/V
n (Total) = 52.0 %

Water Filled Porosity (n) = Vw/V
n (Total) = 42.4 %

Air Filled Porosity (n) = Va/V
n (Total) = 9.6 %

NOTE: Values not representative of effective porosity.

Va = Volume of air
Vw = Volume of water
Vv = Volume of voids
Vd - Volume of dry soil
V = Total volume
Ma = Mass of air (=0)
Mw = Mass of water
Md = Mass of dry soil
M = Total mass

	Volume		Mass
Volume of Voids	Va	AIR	Ma=0
	Vw	WATER	Mw
	Vd	SOIL	Md
	V	Total	M

Project No.:	SG11-3124	
Boring No.:	VMP-24-M	
Sample No.:	04070521-003A	
Depth (Feet):	18.5 - 21.0	
Height	8.099	in.
Diameter	1.660	in.
Weight	511.1	gms
Volume	287.24	cc
DENSITY WET	111.1	pcf
DENSITY DRY	78.2	pcf
Wet + Tare	159.44	gms
Dry + Tare	120.55	gms
Tare	28.19	gms
MC, %	42.1	

	Volume (cc)		Mass (gms)
	5.51	AIR	0.00
156.94	151.43	WATER	151.43
	130.30	SOIL	359.62
	287.24	Total	511.05

Specific Gravity = 2.76

Void Ratio (e) = Vv/Vd
= 1.204

Total Porosity (n) = Vv/V
n (Total) = 54.6 %

Water Filled Porosity (n) = Vw/V
n (Total) = 52.7 %

Air Filled Porosity (n) = Va/V
n (Total) = 1.9 %

NOTE: Values not representative of effective porosity.

Va = Volume of air
Vw = Volume of water
Vv = Volume of voids
Vd - Volume of dry soil
V = Total volume
Ma = Mass of air (=0)
Mw = Mass of water
Md = Mass of dry soil
M = Total mass

	Volume		Mass
Volume of Voids	Va	AIR	Ma=0
	Vw	WATER	Mw
	Vd	SOIL	Md
	V	Total	M

Project No.:	SG11-3124
Boring No.:	VMP-25-M
Sample No.:	04070521-004A
Depth (Feet):	16.0 - 18.0
Height	4.322 in.
Diameter	1.657 in.
Weight	280.7 gms
Volume	152.73 cc
DENSITY WET	114.8 pcf
DENSITY DRY	84.1 pcf
Wet + Tare	132.64 gms
Dry + Tare	104.80 gms
Tare	28.53 gms
MC, %	36.5

	Volume (cc)		Mass (gms)
	2.04	AIR	0.00
77.12	75.07	WATER	75.07
	75.61	SOIL	205.67
	152.73	Total	280.74

Specific Gravity = 2.72

Void Ratio (e) = Vv/Vd
= 1.020

Total Porosity (n) = Vv/V
n (Total) = 50.5 %

Water Filled Porosity (n) = Vw/V
n (Total) = 49.2 %

Air Filled Porosity (n) = Va/V
n (Total) = 1.3 %

NOTE: Values not representative of effective porosity.

CHAIN OF CUSTODY

pg. ____ of ____ Work Order # _____

TEKLAB, INC. 5445 Horseshoe Lake Road ~ Collinsville, IL 62234 ~ Phone: (618) 344-1004 ~ Fax: (618) 344-1005

Client: TEKLAB INC.
Address: 5445 HORSESHOE LAKE RD.
City / State / Zip: COLLINSVILLE, IL 62234
Contact: MIKE AUSTIN Phone: (618) 344-1004
E-Mail: [illegible]@teklabinc.com Fax: (618) 344-1005

Are the samples chilled? ☐ NO ☒ YES (Ice or Blue Ice)
Cooler Temperature: _____ °C
Preserved in: ☐ Lab ☐ Field
Comments:

Are these samples known to be involved in litigation? ☐ Yes ☒ No
Are these samples known to be hazardous? ☐ Yes ☒ No
Are there any required reporting limits to be met on the requested analysis?
☐ Yes ☒ No If yes please provide limits in comment section.

Project Name / Number: 04070521
Sample Collector's Name: CLIENT
Requested Due Date: NTAT
Billing Instructions PO#: 9408

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNPRES	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	Other	MATRIX: Water	Drinking Water	Soil	Sludge	Sp. Water	INDICATE ANALYSIS REQUESTED: Specific Gravity (D854)	Dry Bulk Density (D2937)	Porosity	Wet Fines Sieve (D422)	Total Solids / Moisture (D2216)
	04070521-001A	7/20/04	1										1			X	X	X	X	X
	002A																			
	003A																			
	004A																			

Relinquished By	Date / Time	Received By	Date / Time
[illegible]	7/21/04 11:40	[illegible]	7/21/04 11:40
[illegible]	7/21/04 11:55	[illegible]	7/21/04 11:55

The individual signing this agreement on behalf of client acknowledges that he/she has read and understands the terms and conditions of this agreement, on the reverse side, and that he/she has the authority to sign on behalf of client.

APPENDIX H-2

Clayton Reports

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Clayton Group Services	**Client Project:**	Hartford Work Group 15-03095.14-00
WorkOrder:	04080092	**Client Sample ID:**	HMW-47 10-12ft/040802
Lab ID:	04080092-007	**Collection Date:**	8/2/04 2:30:00 PM
Report Date:	13-Aug-04	**Matrix:**	SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		20.6	%	1	8/6/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		79.4	%	1	8/6/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Lead	NELAP	3.85		14.0	mg/Kg-dry	1	8/10/04 11:55:59 AM	JMW
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Methyl tert-butyl ether	NELAP	2.0		ND	µg/Kg-dry	1	8/6/04 2:36:00 AM	HLR
Benzene	NELAP	1.0		2.1	µg/Kg-dry	1	8/6/04 2:36:00 AM	HLR
Toluene	NELAP	5.0	J	1.0	µg/Kg-dry	1	8/6/04 2:36:00 AM	HLR
Ethylbenzene	NELAP	5.0	J	1.1	µg/Kg-dry	1	8/6/04 2:36:00 AM	HLR
Xylenes, Total	NELAP	5.0	J	3.9	µg/Kg-dry	1	8/6/04 2:36:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		102	%REC	1	8/6/04 2:36:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		96.6	%REC	1	8/6/04 2:36:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		103	%REC	1	8/6/04 2:36:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		100	%REC	1	8/6/04 2:36:00 AM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04080092
Lab ID: 04080092-008
Report Date: 13-Aug-04

Client Project: Hartford Work Group 15-03095.14-00
Client Sample ID: HMW-47 14-16ft/040802
Collection Date: 8/2/04 2:35:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		23.8	%	1	8/6/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		76.2	%	1	8/6/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.50		11.3	mg/Kg-dry	1	8/10/04 1:08:15 PM	JMW
Barium	NELAP	0.50		245	mg/Kg-dry	1	8/12/04 10:51:29 AM	SAM
Beryllium	NELAP	0.10		0.92	mg/Kg-dry	1	8/12/04 10:51:29 AM	SAM
Cadmium	NELAP	0.20		0.41	mg/Kg-dry	1	8/12/04 10:51:29 AM	SAM
Chromium	NELAP	1.00		24.0	mg/Kg-dry	1	8/9/04 5:22:38 PM	JMW
Cobalt	NELAP	1.00		11.8	mg/Kg-dry	1	8/12/04 10:51:29 AM	SAM
Lead	NELAP	4.00		20.2	mg/Kg-dry	1	8/12/04 10:51:29 AM	SAM
Nickel	NELAP	1.00		30.3	mg/Kg-dry	1	8/12/04 10:51:29 AM	SAM
Silver	NELAP	1.00		< 1.00	mg/Kg-dry	1	8/12/04 10:51:29 AM	SAM
Vanadium	NELAP	1.00		48.3	mg/Kg-dry	1	8/12/04 10:51:29 AM	SAM
Zinc	NELAP	1.00		89.6	mg/Kg-dry	1	8/12/04 10:51:29 AM	SAM
SW-846 3050B, METALS BY GFAA								
Selenium 7740	NELAP	0.566		< 0.566	mg/Kg-dry	1	8/10/04	JMF
SW-846 3050B, METALS BY GFAA (TOTAL)								
Antimony 7041		0.47		0.92	mg/Kg-dry	1	8/11/04	JMF
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
2,4-Dimethylphenol	NELAP	0.647		ND	mg/Kg-dry	1	8/13/04 6:28:00 AM	DMH
2,4-Dinitrophenol	NELAP	1.29		ND	mg/Kg-dry	1	8/13/04 6:28:00 AM	DMH
4-Nitrophenol	NELAP	0.453		ND	mg/Kg-dry	1	8/13/04 6:28:00 AM	DMH
Acenaphthene	NELAP	0.453		ND	mg/Kg-dry	1	8/13/04 6:28:00 AM	DMH
Anthracene	NELAP	0.453		ND	mg/Kg-dry	1	8/13/04 6:28:00 AM	DMH
Benzo(a)anthracene	NELAP	0.453		ND	mg/Kg-dry	1	8/13/04 6:28:00 AM	DMH
Benzo(a)pyrene	NELAP	0.453		ND	mg/Kg-dry	1	8/13/04 6:28:00 AM	DMH
Benzo(b)fluoranthene	NELAP	0.453		ND	mg/Kg-dry	1	8/13/04 6:28:00 AM	DMH
Benzo(k)fluoranthene	NELAP	0.453		ND	mg/Kg-dry	1	8/13/04 6:28:00 AM	DMH
Bis(2-ethylhexyl)phthalate	NELAP	0.453		ND	mg/Kg-dry	1	8/13/04 6:28:00 AM	DMH
Chrysene	NELAP	0.453		ND	mg/Kg-dry	1	8/13/04 6:28:00 AM	DMH
Di-n-butyl phthalate	NELAP	0.453		ND	mg/Kg-dry	1	8/13/04 6:28:00 AM	DMH
Dibenzo(a,h)anthracene	NELAP	0.085		ND	mg/Kg-dry	1	8/13/04 6:28:00 AM	DMH
Diethyl phthalate	NELAP	0.647		ND	mg/Kg-dry	1	8/13/04 6:28:00 AM	DMH
Dimethyl phthalate		0.453		ND	mg/Kg-dry	1	8/13/04 6:28:00 AM	DMH
Fluoranthene	NELAP	0.453		ND	mg/Kg-dry	1	8/13/04 6:28:00 AM	DMH

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04080092
Lab ID: 04080092-008
Report Date: 13-Aug-04

Client Project: Hartford Work Group 15-03095.14-00
Client Sample ID: HMW-47 14-16ft/040802
Collection Date: 8/2/04 2:35:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Fluorene	NELAP	0.453		ND	mg/Kg-dry	1	8/13/04 6:28:00 AM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.453		ND	mg/Kg-dry	1	8/13/04 6:28:00 AM	DMH
m,p-Cresol	NELAP	0.647		ND	mg/Kg-dry	1	8/13/04 6:28:00 AM	DMH
Naphthalene	NELAP	0.453		ND	mg/Kg-dry	1	8/13/04 6:28:00 AM	DMH
o-Cresol	NELAP	0.647		ND	mg/Kg-dry	1	8/13/04 6:28:00 AM	DMH
Phenanthrene	NELAP	0.453		ND	mg/Kg-dry	1	8/13/04 6:28:00 AM	DMH
Phenol	NELAP	0.453		ND	mg/Kg-dry	1	8/13/04 6:28:00 AM	DMH
Pyrene	NELAP	0.647		ND	mg/Kg-dry	1	8/13/04 6:28:00 AM	DMH
Pyridine	NELAP	0.647		ND	mg/Kg-dry	1	8/13/04 6:28:00 AM	DMH
Quinoline		0.259		ND	mg/Kg-dry	1	8/13/04 6:28:00 AM	DMH
Surr: 2,4,6-Tribromophenol		31-123		70.8	%REC	1	8/13/04 6:28:00 AM	DMH
Surr: 2-Fluorobiphenyl		14.6-132		43.0	%REC	1	8/13/04 6:28:00 AM	DMH
Surr: 2-Fluorophenol		27-111		49.7	%REC	1	8/13/04 6:28:00 AM	DMH
Surr: Nitrobenzene-d5		28.9-113		46.1	%REC	1	8/13/04 6:28:00 AM	DMH
Surr: p-Terphenyl-d14		25-144		80.6	%REC	1	8/13/04 6:28:00 AM	DMH
Surr: Phenol-d5		33.7-123		63.3	%REC	1	8/13/04 6:28:00 AM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1-Trichloroethane	NELAP	9.1		ND	µg/Kg-dry	1	8/6/04 4:59:00 PM	HLR
1,1-Dichloroethane	NELAP	9.1		ND	µg/Kg-dry	1	8/6/04 4:59:00 PM	HLR
1,2-Dibromoethane	NELAP	9.1		ND	µg/Kg-dry	1	8/6/04 4:59:00 PM	HLR
1,2-Dichlorobenzene	NELAP	9.1		ND	µg/Kg-dry	1	8/6/04 4:59:00 PM	HLR
1,2-Dichloroethane	NELAP	9.1		ND	µg/Kg-dry	1	8/6/04 4:59:00 PM	HLR
1,3-Dichlorobenzene	NELAP	9.1		ND	µg/Kg-dry	1	8/6/04 4:59:00 PM	HLR
1,4-Dichlorobenzene	NELAP	9.1		ND	µg/Kg-dry	1	8/6/04 4:59:00 PM	HLR
2-Butanone	NELAP	91.4		ND	µg/Kg-dry	1	8/6/04 4:59:00 PM	HLR
Benzene	NELAP	1.8		2.1	µg/Kg-dry	1	8/6/04 4:59:00 PM	HLR
Carbon disulfide	NELAP	9.1		ND	µg/Kg-dry	1	8/6/04 4:59:00 PM	HLR
Chlorobenzene	NELAP	9.1		ND	µg/Kg-dry	1	8/6/04 4:59:00 PM	HLR
Chloroform	NELAP	9.1		ND	µg/Kg-dry	1	8/6/04 4:59:00 PM	HLR
Ethylbenzene	NELAP	9.1		ND	µg/Kg-dry	1	8/6/04 4:59:00 PM	HLR
m,p-Xylenes	NELAP	9.1	J	4.8	µg/Kg-dry	1	8/6/04 4:59:00 PM	HLR
Methyl tert-butyl ether	NELAP	3.7		ND	µg/Kg-dry	1	8/6/04 4:59:00 PM	HLR
o-Xylene	NELAP	9.1	J	2.1	µg/Kg-dry	1	8/6/04 4:59:00 PM	HLR
Styrene	NELAP	9.1		ND	µg/Kg-dry	1	8/6/04 4:59:00 PM	HLR
Tetrachloroethene	NELAP	9.1		ND	µg/Kg-dry	1	8/6/04 4:59:00 PM	HLR
Toluene	NELAP	9.1	J	2.6	µg/Kg-dry	1	8/6/04 4:59:00 PM	HLR
Trichloroethene	NELAP	9.1		ND	µg/Kg-dry	1	8/6/04 4:59:00 PM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04080092
Lab ID: 04080092-008
Report Date: 13-Aug-04

Client Project: Hartford Work Group 15-03095.14-00
Client Sample ID: HMW-47 14-16ft/040802
Collection Date: 8/2/04 2:35:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: 1,2-Dichloroethane-d4		72.8-122		98.5	%REC	1	8/6/04 4:59:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		99.7	%REC	1	8/6/04 4:59:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		101	%REC	1	8/6/04 4:59:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		99.5	%REC	1	8/6/04 4:59:00 PM	HLR
SW-846 7471A								
Mercury	NELAP	0.012		0.049	mg/Kg-dry	1	8/10/04	JMW
SW-846 8015 MODIFIED, 1,4-DIOXANE BY GC/FID								
1,4-Dioxane		9.8		ND	mg/Kg-dry	1	8/5/04 12:31:00 PM	DMH
SW-846 9010, 9014								
Cyanide	NELAP	0.64	J	0.22	mg/kg-dry	1	8/10/04	ADH

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04080092
Lab ID: 04080092-009
Report Date: 13-Aug-04

Client Project: Hartford Work Group 15-03095.14-00
Client Sample ID: HMW-47 24-26ft/040802
Collection Date: 8/2/04 3:45:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		27.2	%	1	8/6/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		72.8	%	1	8/6/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Lead	NELAP	4.00		16.7	mg/Kg-dry	1	8/10/04 12:01:30 PM	JMW
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Methyl tert-butyl ether	NELAP	74.3		ND	µg/Kg-dry	12.5	8/6/04 1:49:00 PM	HLR
Benzene	NELAP	37.2		415	µg/Kg-dry	12.5	8/6/04 1:49:00 PM	HLR
Toluene	NELAP	186		198	µg/Kg-dry	12.5	8/6/04 1:49:00 PM	HLR
Ethylbenzene	NELAP	186	J	150	µg/Kg-dry	12.5	8/6/04 1:49:00 PM	HLR
Xylenes, Total	NELAP	186		353	µg/Kg-dry	12.5	8/6/04 1:49:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		95.7	%REC	12.5	8/6/04 1:49:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		97.8	%REC	12.5	8/6/04 1:49:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		94.6	%REC	12.5	8/6/04 1:49:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		101	%REC	12.5	8/6/04 1:49:00 PM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Clayton Group Services	**Client Project:**	Hartford Work Group 15-03095.14-00
WorkOrder:	04080092	**Client Sample ID:**	HMW-47 42-44ft/040802
Lab ID:	04080092-011	**Collection Date:**	8/2/04 3:54:00 PM
Report Date:	13-Aug-04	**Matrix:**	SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		24.4	%	1	8/6/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		75.6	%	1	8/6/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Lead	NELAP	3.92		11.7	mg/Kg-dry	1	8/10/04 12:07:01 PM	JMW
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Methyl tert-butyl ether	NELAP	65.6		ND	µg/Kg-dry	12.5	8/6/04 4:09:00 AM	HLR
Benzene	NELAP	32.8		2790	µg/Kg-dry	12.5	8/6/04 4:09:00 AM	HLR
Toluene	NELAP	164	J	92	µg/Kg-dry	12.5	8/6/04 4:09:00 AM	HLR
Ethylbenzene	NELAP	164		373	µg/Kg-dry	12.5	8/6/04 4:09:00 AM	HLR
Xylenes, Total	NELAP	164		725	µg/Kg-dry	12.5	8/6/04 4:09:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		98.2	%REC	12.5	8/6/04 4:09:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		95.7	%REC	12.5	8/6/04 4:09:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		98.2	%REC	12.5	8/6/04 4:09:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		101	%REC	12.5	8/6/04 4:09:00 AM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04080092
Lab ID: 04080092-012
Report Date: 13-Aug-04

Client Project: Hartford Work Group 15-03095.14-00
Client Sample ID: HMW-46 8-10ft/040802
Collection Date: 8/2/04 4:55:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		21.2	%	1	8/6/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		78.8	%	1	8/6/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Lead	NELAP	3.85		12.8	mg/Kg-dry	1	8/10/04 12:09:47 PM	JMW
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Methyl tert-butyl ether	NELAP	62.3		ND	µg/Kg-dry	12.5	8/6/04 4:40:00 AM	HLR
Benzene	NELAP	31.2		2160	µg/Kg-dry	12.5	8/6/04 4:40:00 AM	HLR
Toluene	NELAP	156		ND	µg/Kg-dry	12.5	8/6/04 4:40:00 AM	HLR
Ethylbenzene	NELAP	156		346	µg/Kg-dry	12.5	8/6/04 4:40:00 AM	HLR
Xylenes, Total	NELAP	156		442	µg/Kg-dry	12.5	8/6/04 4:40:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		98.7	%REC	12.5	8/6/04 4:40:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		96.2	%REC	12.5	8/6/04 4:40:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		97.4	%REC	12.5	8/6/04 4:40:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		100	%REC	12.5	8/6/04 4:40:00 AM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04080092
Lab ID: 04080092-013
Report Date: 13-Aug-04

Client Project: Hartford Work Group 15-03095.14-00
Client Sample ID: HMW-46 12-14ft/040802
Collection Date: 8/2/04 5:05:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		22.3	%	1	8/6/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		77.7	%	1	8/6/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.50		6.89	mg/Kg-dry	1	8/10/04 1:15:38 PM	JMW
Barium	NELAP	0.50		208	mg/Kg-dry	1	8/12/04 10:56:32 AM	SAM
Beryllium	NELAP	0.10		0.61	mg/Kg-dry	1	8/12/04 10:56:32 AM	SAM
Cadmium	NELAP	0.20		0.36	mg/Kg-dry	1	8/12/04 10:56:32 AM	SAM
Chromium	NELAP	1.00		19.0	mg/Kg-dry	1	8/9/04 5:48:16 PM	JMW
Cobalt	NELAP	1.00		8.99	mg/Kg-dry	1	8/12/04 10:56:32 AM	SAM
Lead	NELAP	4.00		13.6	mg/Kg-dry	1	8/12/04 10:56:32 AM	SAM
Nickel	NELAP	1.00		25.3	mg/Kg-dry	1	8/12/04 10:56:32 AM	SAM
Silver	NELAP	1.00		< 1.00	mg/Kg-dry	1	8/12/04 10:56:32 AM	SAM
Vanadium	NELAP	1.00		38.8	mg/Kg-dry	1	8/12/04 10:56:32 AM	SAM
Zinc	NELAP	1.00		62.7	mg/Kg-dry	1	8/12/04 10:56:32 AM	SAM
SW-846 3050B, METALS BY GFAA								
Selenium 7740	NELAP	0.600		< 0.600	mg/Kg-dry	1	8/10/04	JMF
SW-846 3050B, METALS BY GFAA (TOTAL)								
Antimony 7041		0.48		0.68	mg/Kg-dry	1	8/11/04	JMF
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
2,4-Dimethylphenol	NELAP	0.628		ND	mg/Kg-dry	1	8/13/04 7:06:00 AM	DMH
2,4-Dinitrophenol	NELAP	1.26		ND	mg/Kg-dry	1	8/13/04 7:06:00 AM	DMH
4-Nitrophenol	NELAP	0.440		ND	mg/Kg-dry	1	8/13/04 7:06:00 AM	DMH
Acenaphthene	NELAP	0.440		ND	mg/Kg-dry	1	8/13/04 7:06:00 AM	DMH
Anthracene	NELAP	0.440		ND	mg/Kg-dry	1	8/13/04 7:06:00 AM	DMH
Benzo(a)anthracene	NELAP	0.440		ND	mg/Kg-dry	1	8/13/04 7:06:00 AM	DMH
Benzo(a)pyrene	NELAP	0.440		ND	mg/Kg-dry	1	8/13/04 7:06:00 AM	DMH
Benzo(b)fluoranthene	NELAP	0.440		ND	mg/Kg-dry	1	8/13/04 7:06:00 AM	DMH
Benzo(k)fluoranthene	NELAP	0.440		ND	mg/Kg-dry	1	8/13/04 7:06:00 AM	DMH
Bis(2-ethylhexyl)phthalate	NELAP	0.440		ND	mg/Kg-dry	1	8/13/04 7:06:00 AM	DMH
Chrysene	NELAP	0.440		ND	mg/Kg-dry	1	8/13/04 7:06:00 AM	DMH
Di-n-butyl phthalate	NELAP	0.440		ND	mg/Kg-dry	1	8/13/04 7:06:00 AM	DMH
Dibenzo(a,h)anthracene	NELAP	0.083		ND	mg/Kg-dry	1	8/13/04 7:06:00 AM	DMH
Diethyl phthalate	NELAP	0.628		ND	mg/Kg-dry	1	8/13/04 7:06:00 AM	DMH
Dimethyl phthalate		0.440		ND	mg/Kg-dry	1	8/13/04 7:06:00 AM	DMH
Fluoranthene	NELAP	0.440		ND	mg/Kg-dry	1	8/13/04 7:06:00 AM	DMH

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04080092
Lab ID: 04080092-013
Report Date: 13-Aug-04

Client Project: Hartford Work Group 15-03095.14-00
Client Sample ID: HMW-46 12-14ft/040802
Collection Date: 8/2/04 5:05:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Fluorene	NELAP	0.440		ND	mg/Kg-dry	1	8/13/04 7:06:00 AM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.440		ND	mg/Kg-dry	1	8/13/04 7:06:00 AM	DMH
m,p-Cresol	NELAP	0.628		ND	mg/Kg-dry	1	8/13/04 7:06:00 AM	DMH
Naphthalene	NELAP	0.440		ND	mg/Kg-dry	1	8/13/04 7:06:00 AM	DMH
o-Cresol	NELAP	0.628		ND	mg/Kg-dry	1	8/13/04 7:06:00 AM	DMH
Phenanthrene	NELAP	0.440		ND	mg/Kg-dry	1	8/13/04 7:06:00 AM	DMH
Phenol	NELAP	0.440		ND	mg/Kg-dry	1	8/13/04 7:06:00 AM	DMH
Pyrene	NELAP	0.628		ND	mg/Kg-dry	1	8/13/04 7:06:00 AM	DMH
Pyridine	NELAP	0.628		ND	mg/Kg-dry	1	8/13/04 7:06:00 AM	DMH
Quinoline		0.251		ND	mg/Kg-dry	1	8/13/04 7:06:00 AM	DMH
Surr: 2,4,6-Tribromophenol		31-123		83.3	%REC	1	8/13/04 7:06:00 AM	DMH
Surr: 2-Fluorobiphenyl		14.6-132		65.2	%REC	1	8/13/04 7:06:00 AM	DMH
Surr: 2-Fluorophenol		27-111		62.2	%REC	1	8/13/04 7:06:00 AM	DMH
Surr: Nitrobenzene-d5		28.9-113		58.1	%REC	1	8/13/04 7:06:00 AM	DMH
Surr: p-Terphenyl-d14		25-144		79.5	%REC	1	8/13/04 7:06:00 AM	DMH
Surr: Phenol-d5		33.7-123		79.2	%REC	1	8/13/04 7:06:00 AM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1-Trichloroethane	NELAP	185		ND	µg/Kg-dry	12.5	8/5/04 6:19:00 PM	HLR
1,1-Dichloroethane	NELAP	185		ND	µg/Kg-dry	12.5	8/5/04 6:19:00 PM	HLR
1,2-Dibromoethane	NELAP	185		ND	µg/Kg-dry	12.5	8/5/04 6:19:00 PM	HLR
1,2-Dichlorobenzene	NELAP	185		ND	µg/Kg-dry	12.5	8/5/04 6:19:00 PM	HLR
1,2-Dichloroethane	NELAP	185		ND	µg/Kg-dry	12.5	8/5/04 6:19:00 PM	HLR
1,3-Dichlorobenzene	NELAP	185		ND	µg/Kg-dry	12.5	8/5/04 6:19:00 PM	HLR
1,4-Dichlorobenzene	NELAP	185		ND	µg/Kg-dry	12.5	8/5/04 6:19:00 PM	HLR
2-Butanone	NELAP	1850		ND	µg/Kg-dry	12.5	8/5/04 6:19:00 PM	HLR
Benzene	NELAP	37.0		3220	µg/Kg-dry	12.5	8/5/04 6:19:00 PM	HLR
Carbon disulfide	NELAP	185		ND	µg/Kg-dry	12.5	8/5/04 6:19:00 PM	HLR
Chlorobenzene	NELAP	185		ND	µg/Kg-dry	12.5	8/5/04 6:19:00 PM	HLR
Chloroform	NELAP	185		ND	µg/Kg-dry	12.5	8/5/04 6:19:00 PM	HLR
Ethylbenzene	NELAP	185		2090	µg/Kg-dry	12.5	8/5/04 6:19:00 PM	HLR
m,p-Xylenes	NELAP	185		1650	µg/Kg-dry	12.5	8/5/04 6:19:00 PM	HLR
Methyl tert-butyl ether	NELAP	74.0		ND	µg/Kg-dry	12.5	8/5/04 6:19:00 PM	HLR
o-Xylene	NELAP	185	J	100	µg/Kg-dry	12.5	8/5/04 6:19:00 PM	HLR
Styrene	NELAP	185		ND	µg/Kg-dry	12.5	8/5/04 6:19:00 PM	HLR
Tetrachloroethene	NELAP	185		ND	µg/Kg-dry	12.5	8/5/04 6:19:00 PM	HLR
Toluene	NELAP	185	J	55	µg/Kg-dry	12.5	8/5/04 6:19:00 PM	HLR
Trichloroethene	NELAP	185		ND	µg/Kg-dry	12.5	8/5/04 6:19:00 PM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04080092
Lab ID: 04080092-013
Report Date: 13-Aug-04

Client Project: Hartford Work Group 15-03095.14-00
Client Sample ID: HMW-46 12-14ft/040802
Collection Date: 8/2/04 5:05:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: 1,2-Dichloroethane-d4		72.8-122		97.8	%REC	12.5	8/5/04 6:19:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		96.8	%REC	12.5	8/5/04 6:19:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		94.1	%REC	12.5	8/5/04 6:19:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		101	%REC	12.5	8/5/04 6:19:00 PM	HLR
SW-846 7471A								
Mercury	NELAP	0.013		0.024	mg/Kg-dry	1	8/10/04	JMW
SW-846 8015 MODIFIED, 1,4-DIOXANE BY GC/FID								
1,4-Dioxane		9.7		ND	mg/Kg-dry	1	8/5/04 12:49:00 PM	DMH
SW-846 9010, 9014								
Cyanide	NELAP	0.63		< 0.63	mg/kg-dry	1	8/10/04	ADH

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04080092
Lab ID: 04080092-014
Report Date: 13-Aug-04

Client Project: Hartford Work Group 15-03095.14-00
Client Sample ID: HMW-46 22-24ft/040802
Collection Date: 8/2/04 5:15:00 PM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		20.8	%	1	8/6/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		79.2	%	1	8/6/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Lead	NELAP	3.70		12.6	mg/Kg-dry	1	8/10/04 12:30:58 PM	JMW
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Methyl tert-butyl ether	NELAP	479		ND	µg/Kg-dry	100	8/6/04 5:11:00 AM	HLR
Benzene	NELAP	240		7760	µg/Kg-dry	100	8/6/04 5:11:00 AM	HLR
Toluene	NELAP	1200	J	300	µg/Kg-dry	100	8/6/04 5:11:00 AM	HLR
Ethylbenzene	NELAP	1200		2900	µg/Kg-dry	100	8/6/04 5:11:00 AM	HLR
Xylenes, Total	NELAP	1200		1320	µg/Kg-dry	100	8/6/04 5:11:00 AM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		103	%REC	100	8/6/04 5:11:00 AM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		96.7	%REC	100	8/6/04 5:11:00 AM	HLR
Surr: Dibromofluoromethane		74.1-121		102	%REC	100	8/6/04 5:11:00 AM	HLR
Surr: Toluene-d8		82.8-112.8		102	%REC	100	8/6/04 5:11:00 AM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04080092
Lab ID: 04080092-015
Report Date: 13-Aug-04

Client Project: Hartford Work Group 15-03095.14-00
Client Sample ID: HMW-38 6-8ft/040803
Collection Date: 8/3/04 8:50:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		21.1	%	1	8/6/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		78.9	%	1	8/6/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Lead	NELAP	3.92		16.0	mg/Kg-dry	1	8/10/04 12:33:44 PM	JMW
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Methyl tert-butyl ether	NELAP	60.2		ND	µg/Kg-dry	12.5	8/6/04 2:52:00 PM	HLR
Benzene	NELAP	30.1		184	µg/Kg-dry	12.5	8/6/04 2:52:00 PM	HLR
Toluene	NELAP	151		ND	µg/Kg-dry	12.5	8/6/04 2:52:00 PM	HLR
Ethylbenzene	NELAP	151		ND	µg/Kg-dry	12.5	8/6/04 2:52:00 PM	HLR
Xylenes, Total	NELAP	151	J	53	µg/Kg-dry	12.5	8/6/04 2:52:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		94.7	%REC	12.5	8/6/04 2:52:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		99.3	%REC	12.5	8/6/04 2:52:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		94.7	%REC	12.5	8/6/04 2:52:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		100	%REC	12.5	8/6/04 2:52:00 PM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04080092
Lab ID: 04080092-016
Report Date: 13-Aug-04

Client Project: Hartford Work Group 15-03095.14-00
Client Sample ID: HMW-38 12-14ft/040803
Collection Date: 8/3/04 8:53:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		22.9	%	1	8/6/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		77.1	%	1	8/6/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Lead	NELAP	3.92		15.0	mg/Kg-dry	1	8/10/04 12:36:29 PM	JMW
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Methyl tert-butyl ether	NELAP	61.1		ND	µg/Kg-dry	12.5	8/6/04 3:24:00 PM	HLR
Benzene	NELAP	30.5		228	µg/Kg-dry	12.5	8/6/04 3:24:00 PM	HLR
Toluene	NELAP	153		ND	µg/Kg-dry	12.5	8/6/04 3:24:00 PM	HLR
Ethylbenzene	NELAP	153		ND	µg/Kg-dry	12.5	8/6/04 3:24:00 PM	HLR
Xylenes, Total	NELAP	153	J	42	µg/Kg-dry	12.5	8/6/04 3:24:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		94.7	%REC	12.5	8/6/04 3:24:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		100	%REC	12.5	8/6/04 3:24:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		95.4	%REC	12.5	8/6/04 3:24:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		101	%REC	12.5	8/6/04 3:24:00 PM	HLR

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04080092
Lab ID: 04080092-017
Report Date: 13-Aug-04

Client Project: Hartford Work Group 15-03095.14-00
Client Sample ID: HMW-38 26-28ft/040803
Collection Date: 8/3/04 9:25:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		23.9	%	1	8/6/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		76.1	%	1	8/6/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.45		8.75	mg/Kg-dry	1	8/10/04 1:39:08 PM	JMW
Barium	NELAP	0.49		314	mg/Kg-dry	1	8/12/04 11:11:42 AM	SAM
Beryllium	NELAP	0.10		0.79	mg/Kg-dry	1	8/12/04 11:11:42 AM	SAM
Cadmium	NELAP	0.20		0.36	mg/Kg-dry	1	8/12/04 11:11:42 AM	SAM
Chromium	NELAP	0.98		25.0	mg/Kg-dry	1	8/9/04 6:10:08 PM	JMW
Cobalt	NELAP	0.98		11.5	mg/Kg-dry	1	8/12/04 11:11:42 AM	SAM
Lead	NELAP	3.92		15.0	mg/Kg-dry	1	8/12/04 11:11:42 AM	SAM
Nickel	NELAP	0.98		29.6	mg/Kg-dry	1	8/12/04 11:11:42 AM	SAM
Silver	NELAP	0.98		< 0.98	mg/Kg-dry	1	8/12/04 11:11:42 AM	SAM
Vanadium	NELAP	0.98		50.7	mg/Kg-dry	1	8/12/04 11:11:42 AM	SAM
Zinc	NELAP	0.98		86.4	mg/Kg-dry	1	8/12/04 11:11:42 AM	SAM
SW-846 3050B, METALS BY GFAA								
Selenium 7740	NELAP	0.600		< 0.600	mg/Kg-dry	1	8/10/04	JMF
SW-846 3050B, METALS BY GFAA (TOTAL)								
Antimony 7041		0.48		0.58	mg/Kg-dry	1	8/11/04	JMF
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
2,4-Dimethylphenol	NELAP	0.649	J	0.40	mg/Kg-dry	1	8/13/04 7:44:00 AM	DMH
2,4-Dinitrophenol	NELAP	1.30		ND	mg/Kg-dry	1	8/13/04 7:44:00 AM	DMH
4-Nitrophenol	NELAP	0.454		ND	mg/Kg-dry	1	8/13/04 7:44:00 AM	DMH
Acenaphthene	NELAP	0.454		ND	mg/Kg-dry	1	8/13/04 7:44:00 AM	DMH
Anthracene	NELAP	0.454		ND	mg/Kg-dry	1	8/13/04 7:44:00 AM	DMH
Benzo(a)anthracene	NELAP	0.454		ND	mg/Kg-dry	1	8/13/04 7:44:00 AM	DMH
Benzo(a)pyrene	NELAP	0.454		ND	mg/Kg-dry	1	8/13/04 7:44:00 AM	DMH
Benzo(b)fluoranthene	NELAP	0.454		ND	mg/Kg-dry	1	8/13/04 7:44:00 AM	DMH
Benzo(k)fluoranthene	NELAP	0.454		ND	mg/Kg-dry	1	8/13/04 7:44:00 AM	DMH
Bis(2-ethylhexyl)phthalate	NELAP	0.454		ND	mg/Kg-dry	1	8/13/04 7:44:00 AM	DMH
Chrysene	NELAP	0.454		ND	mg/Kg-dry	1	8/13/04 7:44:00 AM	DMH
Di-n-butyl phthalate	NELAP	0.454		ND	mg/Kg-dry	1	8/13/04 7:44:00 AM	DMH
Dibenzo(a,h)anthracene	NELAP	0.086		ND	mg/Kg-dry	1	8/13/04 7:44:00 AM	DMH
Diethyl phthalate	NELAP	0.649		ND	mg/Kg-dry	1	8/13/04 7:44:00 AM	DMH
Dimethyl phthalate		0.454		ND	mg/Kg-dry	1	8/13/04 7:44:00 AM	DMH
Fluoranthene	NELAP	0.454		ND	mg/Kg-dry	1	8/13/04 7:44:00 AM	DMH

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04080092
Lab ID: 04080092-017
Report Date: 13-Aug-04

Client Project: Hartford Work Group 15-03095.14-00
Client Sample ID: HMW-38 26-28ft/040803
Collection Date: 8/3/04 9:25:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Fluorene	NELAP	0.454		ND	mg/Kg-dry	1	8/13/04 7:44:00 AM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.454		ND	mg/Kg-dry	1	8/13/04 7:44:00 AM	DMH
m,p-Cresol	NELAP	0.649		ND	mg/Kg-dry	1	8/13/04 7:44:00 AM	DMH
Naphthalene	NELAP	0.454		0.775	mg/Kg-dry	1	8/13/04 7:44:00 AM	DMH
o-Cresol	NELAP	0.649		ND	mg/Kg-dry	1	8/13/04 7:44:00 AM	DMH
Phenanthrene	NELAP	0.454		ND	mg/Kg-dry	1	8/13/04 7:44:00 AM	DMH
Phenol	NELAP	0.454	J	0.22	mg/Kg-dry	1	8/13/04 7:44:00 AM	DMH
Pyrene	NELAP	0.649		ND	mg/Kg-dry	1	8/13/04 7:44:00 AM	DMH
Pyridine	NELAP	0.649		ND	mg/Kg-dry	1	8/13/04 7:44:00 AM	DMH
Quinoline		0.260		ND	mg/Kg-dry	1	8/13/04 7:44:00 AM	DMH
Surr: 2,4,6-Tribromophenol		31-123		77.5	%REC	1	8/13/04 7:44:00 AM	DMH
Surr: 2-Fluorobiphenyl		14.6-132		44.6	%REC	1	8/13/04 7:44:00 AM	DMH
Surr: 2-Fluorophenol		27-111		54.6	%REC	1	8/13/04 7:44:00 AM	DMH
Surr: Nitrobenzene-d5		28.9-113		51.6	%REC	1	8/13/04 7:44:00 AM	DMH
Surr: p-Terphenyl-d14		25-144		73.3	%REC	1	8/13/04 7:44:00 AM	DMH
Surr: Phenol-d5		33.7-123		68.3	%REC	1	8/13/04 7:44:00 AM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1-Trichloroethane	NELAP	1340		ND	µg/Kg-dry	100	8/5/04 6:50:00 PM	HLR
1,1-Dichloroethane	NELAP	1340		ND	µg/Kg-dry	100	8/5/04 6:50:00 PM	HLR
1,2-Dibromoethane	NELAP	1340		ND	µg/Kg-dry	100	8/5/04 6:50:00 PM	HLR
1,2-Dichlorobenzene	NELAP	1340		ND	µg/Kg-dry	100	8/5/04 6:50:00 PM	HLR
1,2-Dichloroethane	NELAP	1340		ND	µg/Kg-dry	100	8/5/04 6:50:00 PM	HLR
1,3-Dichlorobenzene	NELAP	1340		ND	µg/Kg-dry	100	8/5/04 6:50:00 PM	HLR
1,4-Dichlorobenzene	NELAP	1340		ND	µg/Kg-dry	100	8/5/04 6:50:00 PM	HLR
2-Butanone	NELAP	13400		ND	µg/Kg-dry	100	8/5/04 6:50:00 PM	HLR
Benzene	NELAP	269		11900	µg/Kg-dry	100	8/5/04 6:50:00 PM	HLR
Carbon disulfide	NELAP	1340		ND	µg/Kg-dry	100	8/5/04 6:50:00 PM	HLR
Chlorobenzene	NELAP	1340		ND	µg/Kg-dry	100	8/5/04 6:50:00 PM	HLR
Chloroform	NELAP	1340		ND	µg/Kg-dry	100	8/5/04 6:50:00 PM	HLR
Ethylbenzene	NELAP	1340		16800	µg/Kg-dry	100	8/5/04 6:50:00 PM	HLR
m,p-Xylenes	NELAP	1340		46100	µg/Kg-dry	100	8/5/04 6:50:00 PM	HLR
Methyl tert-butyl ether	NELAP	537		ND	µg/Kg-dry	100	8/5/04 6:50:00 PM	HLR
o-Xylene	NELAP	1340		1490	µg/Kg-dry	100	8/5/04 6:50:00 PM	HLR
Styrene	NELAP	1340		ND	µg/Kg-dry	100	8/5/04 6:50:00 PM	HLR
Tetrachloroethene	NELAP	1340		ND	µg/Kg-dry	100	8/5/04 6:50:00 PM	HLR
Toluene	NELAP	1340	J	420	µg/Kg-dry	100	8/5/04 6:50:00 PM	HLR
Trichloroethene	NELAP	1340		ND	µg/Kg-dry	100	8/5/04 6:50:00 PM	HLR

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Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04080092
Lab ID: 04080092-017
Report Date: 13-Aug-04

Client Project: Hartford Work Group 15-03095.14-00
Client Sample ID: HMW-38 26-28ft/040803
Collection Date: 8/3/04 9:25:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: 1,2-Dichloroethane-d4		72.8-122		102	%REC	100	8/5/04 6:50:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		97.0	%REC	100	8/5/04 6:50:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		101	%REC	100	8/5/04 6:50:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		101	%REC	100	8/5/04 6:50:00 PM	HLR
SW-846 7471A								
Mercury	NELAP	0.013		0.053	mg/Kg-dry	1	8/10/04	JMW
SW-846 8015 MODIFIED, 1,4-DIOXANE BY GC/FID								
1,4-Dioxane		9.9		ND	mg/Kg-dry	1	8/5/04 1:07:00 PM	DMH
SW-846 9010, 9014								
Cyanide	NELAP	0.65	J	0.20	mg/kg-dry	1	8/10/04	ADH

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ENVIRONMENTAL TESTING LABORATORY

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Laboratory Results

CLIENT:	Clayton Group Services	**Client Project:**	Hartford Working Group 15-03095.14
WorkOrder:	04080179	**Client Sample ID:**	HMW-45 10-12ft/040804
Lab ID:	04080179-001	**Collection Date:**	8/4/04 9:25:00 AM
Report Date:	18-Aug-04	**Matrix:**	SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		22.0	%	1	8/9/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		78.0	%	1	8/9/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Lead	NELAP	3.70		20.4	mg/Kg-dry	1	8/13/04 4:56:06 PM	SAM
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Methyl tert-butyl ether	NELAP	64.9		ND	µg/Kg-dry	12.5	8/11/04 6:01:00 PM	HLR
Benzene	NELAP	32.4		135	µg/Kg-dry	12.5	8/11/04 6:01:00 PM	HLR
Toluene	NELAP	162	J	47	µg/Kg-dry	12.5	8/11/04 6:01:00 PM	HLR
Ethylbenzene	NELAP	162		ND	µg/Kg-dry	12.5	8/11/04 6:01:00 PM	HLR
Xylenes, Total	NELAP	162	J	53	µg/Kg-dry	12.5	8/11/04 6:01:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		100	%REC	12.5	8/11/04 6:01:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		97.5	%REC	12.5	8/11/04 6:01:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		96.9	%REC	12.5	8/11/04 6:01:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		101	%REC	12.5	8/11/04 6:01:00 PM	HLR

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COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT:	Clayton Group Services	**Client Project:**	Hartford Working Group 15-03095.14
WorkOrder:	04080179	**Client Sample ID:**	HMW-45 12-14ft/040804
Lab ID:	04080179-002	**Collection Date:**	8/4/04 9:30:00 AM
Report Date:	18-Aug-04	**Matrix:**	SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		19.3	%	1	8/9/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		80.7	%	1	8/9/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Lead	NELAP	3.92		14.4	mg/Kg-dry	1	8/13/04 5:01:11 PM	SAM
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Methyl tert-butyl ether	NELAP	2.4		ND	µg/Kg-dry	1	8/11/04 6:32:00 PM	HLR
Benzene	NELAP	1.2		31.1	µg/Kg-dry	1	8/11/04 6:32:00 PM	HLR
Toluene	NELAP	6.0	J	4.8	µg/Kg-dry	1	8/11/04 6:32:00 PM	HLR
Ethylbenzene	NELAP	6.0	J	2.5	µg/Kg-dry	1	8/11/04 6:32:00 PM	HLR
Xylenes, Total	NELAP	6.0		9.2	µg/Kg-dry	1	8/11/04 6:32:00 PM	HLR
Surr: 1,2-Dichloroethane-d4		72.8-122		104	%REC	1	8/11/04 6:32:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		97.8	%REC	1	8/11/04 6:32:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		102	%REC	1	8/11/04 6:32:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		100	%REC	1	8/11/04 6:32:00 PM	HLR

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5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04080179
Lab ID: 04080179-003
Report Date: 18-Aug-04

Client Project: Hartford Working Group 15-03095.14
Client Sample ID: HMW-45 22-24ft/040804
Collection Date: 8/4/04 9:32:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		21.9	%	1	8/9/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		78.1	%	1	8/9/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.50		9.50	mg/Kg-dry	1	8/17/04 11:14:36 AM	JMW
Barium	NELAP	0.50		196	mg/Kg-dry	1	8/13/04 4:09:27 PM	SAM
Beryllium	NELAP	0.10		0.56	mg/Kg-dry	1	8/13/04 4:09:27 PM	SAM
Cadmium	NELAP	0.20		0.43	mg/Kg-dry	1	8/13/04 4:09:27 PM	SAM
Chromium	NELAP	1.00		20.8	mg/Kg-dry	1	8/17/04 11:14:36 AM	JMW
Cobalt	NELAP	1.00		10.6	mg/Kg-dry	1	8/13/04 4:09:27 PM	SAM
Lead	NELAP	4.00		18.8	mg/Kg-dry	1	8/13/04 4:09:27 PM	SAM
Nickel	NELAP	1.00		20.6	mg/Kg-dry	1	8/13/04 4:09:27 PM	SAM
Silver	NELAP	1.00		< 1.00	mg/Kg-dry	1	8/13/04 4:09:27 PM	SAM
Vanadium	NELAP	1.00		42.1	mg/Kg-dry	1	8/13/04 4:09:27 PM	SAM
Zinc	NELAP	1.00		70.2	mg/Kg-dry	1	8/13/04 4:09:27 PM	SAM
SW-846 3050B, METALS BY GFAA								
Selenium 7740	NELAP	0.600		< 0.600	mg/Kg-dry	1	8/17/04	JMF
SW-846 3050B, METALS BY GFAA (TOTAL)								
Antimony 7041		0.50	J	0.45	mg/Kg-dry	1	8/17/04	JMF
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
2,4-Dimethylphenol	NELAP	0.644		ND	mg/Kg-dry	1	8/10/04 5:22:00 AM	DMH
2,4-Dinitrophenol	NELAP	1.29		ND	mg/Kg-dry	1	8/10/04 5:22:00 AM	DMH
4-Nitrophenol	NELAP	0.451		ND	mg/Kg-dry	1	8/10/04 5:22:00 AM	DMH
Acenaphthene	NELAP	0.451		ND	mg/Kg-dry	1	8/10/04 5:22:00 AM	DMH
Anthracene	NELAP	0.451		ND	mg/Kg-dry	1	8/10/04 5:22:00 AM	DMH
Benzo(a)anthracene	NELAP	0.451		ND	mg/Kg-dry	1	8/10/04 5:22:00 AM	DMH
Benzo(a)pyrene	NELAP	0.451		ND	mg/Kg-dry	1	8/10/04 5:22:00 AM	DMH
Benzo(b)fluoranthene	NELAP	0.451		ND	mg/Kg-dry	1	8/10/04 5:22:00 AM	DMH
Benzo(k)fluoranthene	NELAP	0.451		ND	mg/Kg-dry	1	8/10/04 5:22:00 AM	DMH
Bis(2-ethylhexyl)phthalate	NELAP	0.451		ND	mg/Kg-dry	1	8/10/04 5:22:00 AM	DMH
Chrysene	NELAP	0.451		ND	mg/Kg-dry	1	8/10/04 5:22:00 AM	DMH
Di-n-butyl phthalate	NELAP	0.451		ND	mg/Kg-dry	1	8/10/04 5:22:00 AM	DMH
Dibenzo(a,h)anthracene	NELAP	0.090		ND	mg/Kg-dry	1	8/10/04 5:22:00 AM	DMH
Diethyl phthalate	NELAP	0.644		ND	mg/Kg-dry	1	8/10/04 5:22:00 AM	DMH
Dimethyl phthalate		0.451		ND	mg/Kg-dry	1	8/10/04 5:22:00 AM	DMH
Fluoranthene	NELAP	0.451		ND	mg/Kg-dry	1	8/10/04 5:22:00 AM	DMH

TEKLAB, INC.

5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04080179
Lab ID: 04080179-003
Report Date: 18-Aug-04

Client Project: Hartford Working Group 15-03095.14
Client Sample ID: HMW-45 22-24ft/040804
Collection Date: 8/4/04 9:32:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Fluorene	NELAP	0.451		ND	mg/Kg-dry	1	8/10/04 5:22:00 AM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.451		ND	mg/Kg-dry	1	8/10/04 5:22:00 AM	DMH
m,p-Cresol	NELAP	0.644		ND	mg/Kg-dry	1	8/10/04 5:22:00 AM	DMH
Naphthalene	NELAP	0.451		ND	mg/Kg-dry	1	8/10/04 5:22:00 AM	DMH
o-Cresol	NELAP	0.644		ND	mg/Kg-dry	1	8/10/04 5:22:00 AM	DMH
Phenanthrene	NELAP	0.451		ND	mg/Kg-dry	1	8/10/04 5:22:00 AM	DMH
Phenol	NELAP	0.451		ND	mg/Kg-dry	1	8/10/04 5:22:00 AM	DMH
Pyrene	NELAP	0.644		ND	mg/Kg-dry	1	8/10/04 5:22:00 AM	DMH
Pyridine	NELAP	0.644		ND	mg/Kg-dry	1	8/10/04 5:22:00 AM	DMH
Quinoline		0.129		ND	mg/Kg-dry	1	8/10/04 5:22:00 AM	DMH
Surr: 2,4,6-Tribromophenol		31-123		73.2	%REC	1	8/10/04 5:22:00 AM	DMH
Surr: 2-Fluorobiphenyl		14.6-132		33.7	%REC	1	8/10/04 5:22:00 AM	DMH
Surr: 2-Fluorophenol		27-111		56.6	%REC	1	8/10/04 5:22:00 AM	DMH
Surr: Nitrobenzene-d5		28.9-113		45.4	%REC	1	8/10/04 5:22:00 AM	DMH
Surr: p-Terphenyl-d14		25-144		70.7	%REC	1	8/10/04 5:22:00 AM	DMH
Surr: Phenol-d5		33.7-123		68.8	%REC	1	8/10/04 5:22:00 AM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1-Trichloroethane	NELAP	210		ND	µg/Kg-dry	12.5	8/10/04 8:04:00 PM	HLR
1,1-Dichloroethane	NELAP	210		ND	µg/Kg-dry	12.5	8/10/04 8:04:00 PM	HLR
1,2-Dibromoethane	NELAP	210		ND	µg/Kg-dry	12.5	8/10/04 8:04:00 PM	HLR
1,2-Dichlorobenzene	NELAP	210		ND	µg/Kg-dry	12.5	8/10/04 8:04:00 PM	HLR
1,2-Dichloroethane	NELAP	210		ND	µg/Kg-dry	12.5	8/10/04 8:04:00 PM	HLR
1,3-Dichlorobenzene	NELAP	210		ND	µg/Kg-dry	12.5	8/10/04 8:04:00 PM	HLR
1,4-Dichlorobenzene	NELAP	210		ND	µg/Kg-dry	12.5	8/10/04 8:04:00 PM	HLR
2-Butanone	NELAP	2100	J	600	µg/Kg-dry	12.5	8/10/04 8:04:00 PM	HLR
Benzene	NELAP	42.0		1370	µg/Kg-dry	12.5	8/10/04 8:04:00 PM	HLR
Carbon disulfide	NELAP	210		ND	µg/Kg-dry	12.5	8/10/04 8:04:00 PM	HLR
Chlorobenzene	NELAP	210		ND	µg/Kg-dry	12.5	8/10/04 8:04:00 PM	HLR
Chloroform	NELAP	210		ND	µg/Kg-dry	12.5	8/10/04 8:04:00 PM	HLR
Ethylbenzene	NELAP	210		ND	µg/Kg-dry	12.5	8/10/04 8:04:00 PM	HLR
m,p-Xylenes	NELAP	210	J	58	µg/Kg-dry	12.5	8/10/04 8:04:00 PM	HLR
Methyl tert-butyl ether	NELAP	84.0		ND	µg/Kg-dry	12.5	8/10/04 8:04:00 PM	HLR
o-Xylene	NELAP	210		ND	µg/Kg-dry	12.5	8/10/04 8:04:00 PM	HLR
Styrene	NELAP	210		ND	µg/Kg-dry	12.5	8/10/04 8:04:00 PM	HLR
Tetrachloroethene	NELAP	210		ND	µg/Kg-dry	12.5	8/10/04 8:04:00 PM	HLR
Toluene	NELAP	210	J	42	µg/Kg-dry	12.5	8/10/04 8:04:00 PM	HLR
Trichloroethene	NELAP	210		ND	µg/Kg-dry	12.5	8/10/04 8:04:00 PM	HLR

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Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04080179
Lab ID: 04080179-003
Report Date: 18-Aug-04

Client Project: Hartford Working Group 15-03095.14
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Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Surr: 1,2-Dichloroethane-d4		72.8-122		100	%REC	12.5	8/10/04 8:04:00 PM	HLR
Surr: 4-Bromofluorobenzene		75.6-120		97.1	%REC	12.5	8/10/04 8:04:00 PM	HLR
Surr: Dibromofluoromethane		74.1-121		95.2	%REC	12.5	8/10/04 8:04:00 PM	HLR
Surr: Toluene-d8		82.8-112.8		100	%REC	12.5	8/10/04 8:04:00 PM	HLR
SW-846 7471A								
Mercury	NELAP	0.012		0.052	mg/Kg-dry	1	8/16/04	JMW
SW-846 8015B MODIFIED, 1,4-DIOXANE BY GC/FID								
1,4-Dioxane		9.6		ND	mg/Kg-dry	1	8/9/04 2:03:00 PM	DMH
SW-846 9010, 9014								
Cyanide	NELAP	0.63		< 0.63	mg/kg-dry	1	8/12/04	NNH

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5445 HORSESHOE LAKE ROAD
COLLINSVILLE, ILLINOIS 62234

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004
FAX: 618-344-1005

Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04080179
Lab ID: 04080179-004
Report Date: 18-Aug-04

Client Project: Hartford Working Group 15-03095.14
Client Sample ID: HMW-45 28-30ft/040804
Collection Date: 8/4/04 9:45:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
ASTM D2974								
Percent Moisture		0.1		28.3	%	1	8/9/04	JRS
STANDARD METHODS 18TH ED. 2540 G								
Total Solids		0.1		71.7	%	1	8/9/04	JRS
SW-846 3050B, 6010B, METALS BY ICP								
Arsenic	NELAP	2.45		4.19	mg/Kg-dry	1	8/17/04 11:41:13 AM	JMW
Barium	NELAP	0.49		184	mg/Kg-dry	1	8/13/04 4:14:32 PM	SAM
Beryllium	NELAP	0.10		0.95	mg/Kg-dry	1	8/13/04 4:14:32 PM	SAM
Cadmium	NELAP	0.20		0.92	mg/Kg-dry	1	8/13/04 4:14:32 PM	SAM
Chromium	NELAP	0.98		26.6	mg/Kg-dry	1	8/17/04 11:16:45 AM	JMW
Cobalt	NELAP	0.98		9.10	mg/Kg-dry	1	8/13/04 4:14:32 PM	SAM
Lead	NELAP	3.92		19.2	mg/Kg-dry	1	8/13/04 4:14:32 PM	SAM
Nickel	NELAP	0.98		25.5	mg/Kg-dry	1	8/13/04 4:14:32 PM	SAM
Silver	NELAP	0.98		< 0.98	mg/Kg-dry	1	8/13/04 4:14:32 PM	SAM
Vanadium	NELAP	0.98		37.9	mg/Kg-dry	1	8/13/04 4:14:32 PM	SAM
Zinc	NELAP	0.98		89.7	mg/Kg-dry	1	8/13/04 4:14:32 PM	SAM
SW-846 3050B, METALS BY GFAA								
Selenium 7740	NELAP	0.577		< 0.577	mg/Kg-dry	1	8/17/04	JMF
SW-846 3050B, METALS BY GFAA (TOTAL)								
Antimony 7041		0.49	J	0.21	mg/Kg-dry	1	8/17/04	JMF
SW-846 3550B, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS								
2,4-Dimethylphenol	NELAP	0.688		ND	mg/Kg-dry	1	8/10/04 7:17:00 AM	DMH
2,4-Dinitrophenol	NELAP	1.38		ND	mg/Kg-dry	1	8/10/04 7:17:00 AM	DMH
4-Nitrophenol	NELAP	0.482		ND	mg/Kg-dry	1	8/10/04 7:17:00 AM	DMH
Acenaphthene	NELAP	0.482		ND	mg/Kg-dry	1	8/10/04 7:17:00 AM	DMH
Anthracene	NELAP	0.482		ND	mg/Kg-dry	1	8/10/04 7:17:00 AM	DMH
Benzo(a)anthracene	NELAP	0.482		ND	mg/Kg-dry	1	8/10/04 7:17:00 AM	DMH
Benzo(a)pyrene	NELAP	0.482		ND	mg/Kg-dry	1	8/10/04 7:17:00 AM	DMH
Benzo(b)fluoranthene	NELAP	0.482		ND	mg/Kg-dry	1	8/10/04 7:17:00 AM	DMH
Benzo(k)fluoranthene	NELAP	0.482		ND	mg/Kg-dry	1	8/10/04 7:17:00 AM	DMH
Bis(2-ethylhexyl)phthalate	NELAP	0.482		ND	mg/Kg-dry	1	8/10/04 7:17:00 AM	DMH
Chrysene	NELAP	0.482		ND	mg/Kg-dry	1	8/10/04 7:17:00 AM	DMH
Di-n-butyl phthalate	NELAP	0.482		ND	mg/Kg-dry	1	8/10/04 7:17:00 AM	DMH
Dibenzo(a,h)anthracene	NELAP	0.089		ND	mg/Kg-dry	1	8/10/04 7:17:00 AM	DMH
Diethyl phthalate	NELAP	0.688		ND	mg/Kg-dry	1	8/10/04 7:17:00 AM	DMH
Dimethyl phthalate		0.482		ND	mg/Kg-dry	1	8/10/04 7:17:00 AM	DMH
Fluoranthene	NELAP	0.482		ND	mg/Kg-dry	1	8/10/04 7:17:00 AM	DMH

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Laboratory Results

CLIENT: Clayton Group Services
WorkOrder: 04080179
Lab ID: 04080179-004
Report Date: 18-Aug-04

Client Project: Hartford Working Group 15-03095.14
Client Sample ID: HMW-45 28-30ft/040804
Collection Date: 8/4/04 9:45:00 AM
Matrix: SOLID

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
Fluorene	NELAP	0.482		ND	mg/Kg-dry	1	8/10/04 7:17:00 AM	DMH
Indeno(1,2,3-cd)pyrene	NELAP	0.482		ND	mg/Kg-dry	1	8/10/04 7:17:00 AM	DMH
m,p-Cresol	NELAP	0.688		ND	mg/Kg-dry	1	8/10/04 7:17:00 AM	DMH
Naphthalene	NELAP	0.482		ND	mg/Kg-dry	1	8/10/04 7:17:00 AM	DMH
o-Cresol	NELAP	0.688		ND	mg/Kg-dry	1	8/10/04 7:17:00 AM	DMH
Phenanthrene	NELAP	0.482		ND	mg/Kg-dry	1	8/10/04 7:17:00 AM	DMH
Phenol	NELAP	0.482		ND	mg/Kg-dry	1	8/10/04 7:17:00 AM	DMH
Pyrene	NELAP	0.688		ND	mg/Kg-dry	1	8/10/04 7:17:00 AM	DMH
Pyridine	NELAP	0.688		ND	mg/Kg-dry	1	8/10/04 7:17:00 AM	DMH
Quinoline		0.138		ND	mg/Kg-dry	1	8/10/04 7:17:00 AM	DMH
Surr: 2,4,6-Tribromophenol		31-123		76.2	%REC	1	8/10/04 7:17:00 AM	DMH
Surr: 2-Fluorobiphenyl		14.6-132		41.5	%REC	1	8/10/04 7:17:00 AM	DMH
Surr: 2-Fluorophenol		27-111		52.2	%REC	1	8/10/04 7:17:00 AM	DMH
Surr: Nitrobenzene-d5		28.9-113		41.6	%REC	1	8/10/04 7:17:00 AM	DMH
Surr: p-Terphenyl-d14		25-144		64.3	%REC	1	8/10/04 7:17:00 AM	DMH
Surr: Phenol-d5		33.7-123		63.8	%REC	1	8/10/04 7:17:00 AM	DMH
SW-846 5035, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
1,1,1-Trichloroethane	NELAP	234		ND	µg/Kg-dry	12.5	8/11/04 3:50:00 PM	HLR
1,1-Dichloroethane	NELAP	234		ND	µg/Kg-dry	12.5	8/11/04 3:50:00 PM	HLR
1,2-Dibromoethane	NELAP	234		ND	µg/Kg-dry	12.5	8/11/04 3:50:00 PM	HLR
1,2-Dichlorobenzene	NELAP	234		ND	µg/Kg-dry	12.5	8/11/04 3:50:00 PM	HLR
1,2-Dichloroethane	NELAP	234		ND	µg/Kg-dry	12.5	8/11/04 3:50:00 PM	HLR
1,3-Dichlorobenzene	NELAP	234		ND	µg/Kg-dry	12.5	8/11/04 3:50:00 PM	HLR
1,4-Dichlorobenzene	NELAP	234		ND	µg/Kg-dry	12.5	8/11/04 3:50:00 PM	HLR
2-Butanone	NELAP	2340	J	480	µg/Kg-dry	12.5	8/11/04 3:50:00 PM	HLR
Benzene	NELAP	46.9		2260	µg/Kg-dry	12.5	8/11/04 3:50:00 PM	HLR
Carbon disulfide	NELAP	234		ND	µg/Kg-dry	12.5	8/11/04 3:50:00 PM	HLR
Chlorobenzene	NELAP	234	J	110	µg/Kg-dry	12.5	8/11/04 3:50:00 PM	HLR
Chloroform	NELAP	234		ND	µg/Kg-dry	12.5	8/11/04 3:50:00 PM	HLR
Ethylbenzene	NELAP	234	J	72	µg/Kg-dry	12.5	8/11/04 3:50:00 PM	HLR
m,p-Xylenes	NELAP	234	J	110	µg/Kg-dry	12.5	8/11/04 3:50:00 PM	HLR
Methyl tert-butyl ether	NELAP	93.7		ND	µg/Kg-dry	12.5	8/11/04 3:50:00 PM	HLR
o-Xylene	NELAP	234		ND	µg/Kg-dry	12.5	8/11/04 3:50:00 PM	HLR
Styrene	NELAP	234		ND	µg/Kg-dry	12.5	8/11/04 3:50:00 PM	HLR
Tetrachloroethene	NELAP	234		ND	µg/Kg-dry	12.5	8/11/04 3:50:00 PM	HLR
Toluene	NELAP	234	J	57	µg/Kg-dry	12.5	8/11/04 3:50:00 PM	HLR
Trichloroethene	NELAP	234		ND	µg/Kg-dry	12.5	8/11/04 3:50:00 PM	HLR

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SW-846 7471A								
Mercury	NELAP	0.013		0.023	mg/Kg-dry	1	8/16/04	JMW
SW-846 8015B MODIFIED, 1,4-DIOXANE BY GC/FID								
1,4-Dioxane		10		ND	mg/Kg-dry	1	8/9/04 2:20:00 PM	DMH
SW-846 9010, 9014								
Cyanide	NELAP	0.70		< 0.70	mg/kg-dry	1	8/12/04	NNH