O'BRIEN & GERE

July 24, 2007

Jason M. Pelton
Engineering Geologist
NYSDEC
Remedial Bureau D
Division of Environmental Remediation
625 Broadway, 12th Floor
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Re: Indoor Air Sampling - Pizza Hut Off-Site Site Characterization, Buffalo, NY

File: 10653/37211 #5

Dear Jason:

This letter describes the field sampling methods and analytical results associated with the indoor air monitoring conducted during February 2007 within the Pizza Hut Off-Site Characterization study area in the City of Buffalo, Erie County, New York (Figure 1).

The indoor air monitoring event consisted of the collection of air samples from five commercial properties and two ambient locations as shown on Figure 2. A summary of the VOCs detected in ambient air, sub-slab vapor, basement air, and first floor air samples is provided on Table 1. Laboratory data reports are provided in Attachment A. Data Usability Summary Reports are provided in Attachment B.

**Indoor Air Sampling Methodology**
Prior to collecting the sub-slab and indoor air samples, a pre-sampling inspection was conducted to evaluate the physical layout and conditions of the structures to be sampled, identify conditions that may influence or interfere with the sampling, and prepare the structure for sampling. In addition, the pre-sampling inspection included completion of an inventory of products that contained VOCs. O'Brien & Gere and NYSDEC personnel completed the building surveys and product inventories. Information related to the building survey and product inventory is provided in Attachment C.

*Sub-slab sampling*
For each sample, an approximate one-quarter to one-half inch diameter hole was drilled in the concrete basement floor slab to a depth just beneath the slab and a dedicated one-eighth inch tube was inserted into the bored hole. To prevent infiltration of ambient air and dilution of the samples, the holes were sealed with 100% pure beeswax around the tubing. The sample tubing was purged of a minimum of between one and two volumes. After purging, the sample tubing was connected to a 6-L stainless steel vacuum-extracted canister to collect the samples. The vacuum-extracted canisters were

equipped with vacuum gauges and flow control valves. Prior to sample collection, vacuum gauge readings were recorded on vapor intrusion sampling forms (provided in Attachment C). The flow controllers were set to collect the samples over a minimum time period of 24 hours. At the end of the sample draw, the vacuum gauge readings were recorded on the vapor intrusion sampling forms.

*Basement and first floor air sampling*
Basement and first floor air samples were collected concurrently with the sub-slab sampling described above. The air samples were collected using 6-L vacuum-extracted canisters at each sample location. The canisters were equipped with vacuum gauges and flow control valves. Prior to sample collection, the vacuum gauge reading was recorded on vapor intrusion sampling forms. Flow rates were set using flow control valves and calibrated to collect the sample over a 24-hour sampling period, which was selected to account for daily activities that might influence VOC concentrations in indoor air. At the end of the sample draw, the vacuum gauge reading was recorded on vapor intrusion sampling forms.

*Ambient air samples*
Two ambient air samples were collected concurrent with the sub-slab and indoor air sampling. The ambient air samples were collected using 6-L stainless steel vacuum-extracted canisters. The canisters were equipped with vacuum gauges and flow control valves. Prior to sample collection, the vacuum gauge reading was recorded on vapor intrusion sampling forms. Flow controllers were calibrated to collect the sample over a 24-hour period to account for daily activities that might influence VOC concentrations in ambient air. At the end of the sample draw, the vacuum gauge reading was recorded on vapor intrusion sampling forms. The locations of the ambient air samples are shown on Figure 2.

The air samples collected using vacuum-extracted canisters were analyzed for VOCs by Air Toxics, LTD using USEPA Method TO-15. A blind duplicate was collected for quality assurance/quality control (QA/QC) purposes. The analytical data were evaluated as to their usability. Data usability summary reports are provided in Attachment B. The air data are considered usable for the purposes of evaluating constituent concentrations in the environmental media analyzed.

**Evaluation of Vapor Intrusion**
Soil vapor intrusion is a process where VOCs migrate from a subsurface source into the indoor air of buildings. The vapors can migrate into indoor air due to interior and exterior pressure differentials through cracks, perforations in slabs or basement floors and/or walls, or openings around sumps or where pipes and/or electrical wires penetrate through the foundation. Heating, ventilation, and air conditioning systems, when operating, may cause negative pressure within the building that can draw soil vapor into the structure. Many chemicals are contained in household products, building materials, fuels, etc. and as such, chemicals are often found in air samples collected within structures even when a subsurface contaminant source is not present. Also, the subsurface source of soil vapor does not necessarily need to lie directly beneath a structure to adversely impact the vapor beneath the foundation.

The focus of the indoor air monitoring was to evaluate the concentrations of typical dry cleaning solvents (such as tetrachloroethene (PCE), trichloroethene (TCE), 1,1,1-trichloroethane (1,1,1,-TCA), and carbon tetrachloride) and their associated degradation products (such as cis-1,2-dichloroethene (cis-1,2-DCE), 1,1-dichloroethene (1,1-DCE) and vinyl chloride) in sub-slab vapor and indoor air and whether these concentrations are indicative of vapor intrusion. At locations where vapor intrusion was suspected, then appropriate actions would be considered to mitigate the vapor migration pathway and/or the exposure of building occupants to those vapors would be identified. In order to evaluate vapor intrusion, the sub-slab and indoor air sample results were reviewed and compared to the New

York State Department of Health (NYSDOH) Soil Vapor/Indoor Air matrices described in *Guidance for Evaluating Soil Vapor Intrusion in the State of New York, Final* (NYSDOH, October 2006). Depending on the relationship between sub-slab and indoor air concentrations, vapor intrusion may or may not be suspected. To date, NYSDOH has developed soil vapor/indoor air matrices for the following VOCs: 1,1,1-TCA, PCE, TCE, 1,1-DCE, cis-1,2-DCE, vinyl chloride, and carbon tetrachloride. TCE, carbon tetrachloride, and vinyl chloride are assigned to Soil Vapor/Indoor Air Matrix 1. 1,1,1-TCA, PCE, 1,1-DCE, and cis-1,2-DCE are assigned to Soil Vapor/Indoor Air Matrix 2. The following provides discussion of the sub-slab and indoor air data in terms of the potential for vapor intrusion according to the NYSDOH air matrices.

The sub-slab and indoor air analytical data for 1,1,1-TCA, PCE, TCE, carbon tetrachloride, 1,1-DCE, cis-1,2-DCE, and vinyl chloride from the February 2007 sampling event were evaluated against the NYSDOH soil vapor/indoor air matrices. Table 2 provides summaries of these data and the associated action(s) recommended by the NYSDOH soil vapor/indoor air matrices. Five potential actions are described by NYSDOH as follows:

1. No further action:
Given that the compound was not detected in the indoor air sample and that the concentration detected in the sub-slab vapor sample is not expected to significantly affect indoor air quality, no additional actions are needed to address human exposures.

2. Take steps to identify source(s) and reduce exposures:
The concentration detected in the indoor air sample is likely due to indoor and/or outdoor sources rather than soil vapor intrusion given the concentration detected in the sub-slab vapor sample. Therefore, steps should be taken to identify potential source(s) and to reduce exposures accordingly.

3. Monitor:
Monitoring, including sub-slab vapor, basement air, lowest occupied living space air, and outdoor air sampling, is needed to evaluate whether concentrations in the indoor air or sub-slab vapor have changed. The type and frequency of monitoring is determined on a site-specific basis, taking into account applicable environmental data and building operating conditions. Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

4. Mitigate:
Mitigation is needed to minimize current or potential exposures associated with soil vapor intrusion. Mitigation is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated.

5. Monitor/Mitigate:
Monitoring or mitigation may be recommended after considering the magnitude of sub-slab vapor and indoor air concentrations along with building and site-specific conditions.

PCE, TCE, 1,1,1-TCA, and carbon tetrachloride were detected in select samples (*i.e.* sub-slab, basement, and/or first floor air) at relatively low concentrations. Based on the concentrations of these compounds in sub-slab vapor and indoor air, and comparison of these concentrations to the NYSDOH matrices, no action is considered necessary. The presence of these compounds in basement and first floor air samples is not considered to be attributable to vapor intrusion. While carbon tetrachloride was detected in basement and first floor air samples, its presence is likely attributable to outdoor

sources rather than vapor intrusion since it was also detected in all ambient air samples at concentrations equivalent to the indoor air concentrations. Vinyl chloride, 1,1-DCE, and cis-1,2-DCE were not detected in the sub-slab vapor, indoor air, or ambient air samples.

Other VOCs detected mainly included petroleum and refrigerant compounds, many of which were detected in each of the sub-slab, basement air, and first floor air samples. The NYSDOH has not incorporated these compounds in their soil vapor/indoor air matrices. As such, the NYSDOH air guidance indicates that background values can be used for initial comparative purposes. These background data are provided in Appendix C of the NYSDOH air guidance document. Specifically, background data that can be used for residential and office/commercial air comparisons are provided on Tables C1 and C2 of this appendix, respectively. The air samples collected during the Off-Site Characterization were from office/commercial buildings. As such, air data were compared to background values on Table C2. If a background value was not provided on Table C2, then Table C1 was used.

Regarding the detected petroleum compounds, concentrations of n-heptane were elevated in the sub-slab vapor samples compared to the other detected petroleum compounds. N-heptane was also detected in basement and first floor air samples at relatively low concentrations. Comparison of the sub-slab vapor concentrations to basement and first floor air concentrations may suggest that vapor intrusion is occurring. Background data specific to n-heptane is not provided for office/commercial building air on Table C2. However, the n-heptane concentrations detected in the basement and first floor air samples are below the background level for n-heptane in residential building air (Upper Fence value of 18 $\mu g/m^3$) reported on Table C1, with the exception of the first floor air sample collected at Sample Location 1. This sample indicated an n-heptane concentration of 28 $\mu g/m^3$. While comparison of sub-slab concentrations of n-heptane to basement and first floor concentrations may suggest vapor intrusion, it does not appear to be occurring at a rate that would cause indoor air concentrations to be above background. Therefore, these relatively low concentrations of n-heptane do not warrant further action. Petroleum compounds were detected in soil and ground water samples collected in the general vicinity of the indoor air sampling locations during earlier phases of the Off-Site Characterization and may be acting as a source of n-heptane detected in the sub-slab and indoor air samples.

The first floor air sample collected from Sample Location 1 indicated the presence of 1,2,4-trimethylbenzene (3,100 $\mu g/m^3$), 1,3,5-trimethylbenzene (1,100 $\mu g/m^3$), and 4-ethyltolune (3,200 $\mu g/m^3$) at concentrations above the were also detected in the first floor sample collected at Sample Location 1 in comparison to the other sampling locations. Comparison of these concentrations to their sub-slab concentrations and ambient air concentrations suggest an indoor source. Review of the indoor air sampling and product inventory form for Sample Location 1 (provided in Attachment C) indicates that cigarette smoke was present and cleaning fluids were used on the first floor, resulting in elevated VOC readings while screening the space with a photoionization detector (PID). The presence of these substances may have attributed to compounds detected in the first floor air sample.

Low levels of refrigerant compounds (dichlorodifluoromethane, methyl chloride, and trichlorofuoromethane) were detected in sub-slab, basement and first floor air samples. The concentrations of these compounds do not suggest that their presence in basement and/or first floor air is attributable to vapor intrusion. Similar concentrations of each compound were also detected in both ambient air samples suggesting an outdoor source. In addition, the detected concentrations are below the background levels for office/commercial building air.

If you should have any questions regarding the information provided in this letter, please contact me at (315) 437-6100.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.

James R. Heckathorne, P.E.
Vice President

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cc: David J. Carnevale – O'Brien & Gere

Attachments:
A – Laboratory Data Report (on CD)
B – Data Usability Summary Report
C – Building Survey and Product Inventories

Table 1

Pizza Hut Off-Site Site Characterization
New York State Department of Environmental Conservation

Volatile Organic Compounds - Subslab Vapor and Indoor Air

| Sample Location | 1 | | | 2 | | |
|---|---|---|---|---|---|---|
| Sample ID | SS-1-022707 | B-1-022707 | FF-1-022707 | SS-2-022707 | B-2-022707 | FF-2-022707 |
| Sample Date | 2/27/2007 | 2/27/2007 | 2/27/2007 | 2/27/2007 | 2/27/2007 | 2/27/2007 |
| Chemical Name / Unit | ug/m3 | ug/m3 | ug/m3 | ug/m3 | ug/m3 | ug/m3 |
| 1,1,1-Trichloroethane | 1.6 | 0.73 U | 13 U | 0.77 U | 0.81 U | 0.80 U |
| 1,1,2,2-Tetrachloroethane | 1.5 U | 0.92 U | 16 U | 0.97 U | 1.0 U | 1.0 U |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.7 U | 1.0 U | 18 U | 1.1 U | 1.1 U | 1.1 U |
| 1,1,2-Trichloroethane | 1.2 U | 0.73 U | 13 U | 0.77 U | 0.81 U | 0.80 U |
| 1,1-Dichloroethane | 0.90 U | 0.54 U | 9.6 U | 0.57 U | 0.60 U | 0.59 U |
| 1,1-Dichloroethene | 0.88 U | 0.53 U | 9.4 U | 0.56 U | 0.59 U | 0.58 U |
| 1,2,4-Trimethylbenzene | 11 | 4.8 | 3100 | 12 | 1.4 | 1.7 |
| 1,2-Dichloroethane | 0.90 U | 0.54 U | 9.6 U | 0.57 U | 0.60 U | 0.59 U |
| 1,2-Dichloropropane | 1.0 U | 0.62 U | 11 U | 0.65 U | 0.69 U | 0.67 U |
| 1,2-Dichlorotetrafluoroethane | 1.6 U | 0.94 U | 17 U | 0.98 U | 1.0 U | 1.0 U |
| 1,2-Xylene | 11 | 1.0 | 10 U | 10 | 1.1 | 2.0 |
| 1,3,5-Trimethylbenzene | 2.9 | 1.6 | 1100 | 3.0 | 0.73 U | 0.72 U |
| 1,4-Dioxane | 0.80 U | 0.48 U | 8.6 U | 0.51 U | 0.54 U | 0.53 U |
| 2-Hexanone | 4.6 U | 2.7 U | 49 U | 2.9 U | 12 | 3.0 U |
| 4-Ethyltoluene | 8.8 | 4.6 | 3200 | 9.8 | 1.1 | 1.4 |
| 4-Methyl-2-pentanone | 0.91 U | 0.55 U | 80 | 0.98 | 0.61 U | 0.60 U |
| Acetone | 26 | 3.9 | 62 | 88 | 100 | 10 |
| Benzene | 3.0 | 1.6 | 7.6 U | 2.5 | 1.7 | 2.1 |
| Benzyl chloride | 1.2 U | 0.69 U | 12 U | 0.73 U | 0.77 U | 0.76 U |
| Bromodichloromethane | 1.5 U | 0.90 U | 16 U | 1.6 | 1.0 U | 0.98 U |
| Bromoform | 2.3 U | 1.4 U | 25 U | 1.4 U | 1.5 U | 1.5 U |
| Bromomethane | 0.87 U | 0.52 U | 9.2 U | 0.55 U | 0.58 U | 0.57 U |
| Butadiene | 0.49 U | 0.30 U | 5.3 U | 0.38 | 0.33 U | 0.32 U |
| Carbon disulfide | 3.5 U | 2.1 U | 37 U | 2.2 U | 2.3 U | 2.3 U |
| Carbon tetrachloride | 1.6 | 0.55 | 3.0 U | 0.89 U | 0.54 | 0.56 |
| Chlorobenzene | 1.0 U | 0.62 U | 11 U | 0.65 U | 0.68 U | 0.67 U |
| Chloroethane | 0.59 U | 0.35 U | 6.3 U | 0.37 U | 0.39 U | 0.38 U |
| Chloroform | 7.8 | 0.65 U | 12 U | 15 | 0.73 U | 0.71 U |
| cis-1,2-Dichloroethene | 0.88 U | 0.53 U | 9.4 U | 0.56 U | 0.59 U | 0.58 U |
| cis-1,3-Dichloropropene | 1.0 U | 0.61 U | 11 U | 0.64 U | 0.68 U | 0.66 U |
| Cyclohexane | 13 | 0.46 U | 8.2 U | 28 | 0.51 U | 0.50 J |
| Dibromochloromethane | 1.9 U | 1.1 U | 20 U | 1.2 U | 1.3 U | 1.2 U |

Notes: U - Analyte concentration not detected above reporting limit
E - Exceeds instrument calibration range
J - Estimated concentration

Table 1

Pizza Hut Off-Site Site Characterization
New York State Department of Environmental Conservation

Volatile Organic Compounds - Subslab Vapor and Indoor Air

| Sample Location | | 1 | | | 2 | | |
|---|---|---|---|---|---|---|---|
| Sample ID | SS-1-022707 | B-1-022707 | FF-1-022707 | SS-2-022707 | B-2-022707 | FF-2-022707 |
| Sample Date | 2/27/2007 | 2/27/2007 | 2/27/2007 | 2/27/2007 | 2/27/2007 | 2/27/2007 |
| Chemical Name | Unit | ug/m3 | ug/m3 | ug/m3 | ug/m3 | ug/m3 | ug/m3 |
| Dichlorobenzenes (1,2-) | | 1.3 U | 0.80 U | 14 U | 0.85 U | 0.90 U | 0.88 U |
| Dichlorobenzenes (1,3-) | | 1.3 U | 0.80 U | 14 U | 0.85 U | 0.90 U | 0.88 U |
| Dichlorobenzenes (1,4-) | | 23 | 0.80 U | 14 U | 31 | 0.90 U | 0.88 U |
| Dichlorodifluoromethane | | 4.7 | 2.6 | 12 U | 3.7 | 2.9 | 3.1 |
| Ethyl Alcohol | | 2.1 U | 4.0 | 43 | 11 | 27 | 6.9 |
| Ethylbenzene | | 8.3 | 0.70 | 10 U | 6.5 | 0.76 | 1.3 |
| Ethylene dibromide | | 1.7 U | 1.0 U | 18 U | 1.1 U | 1.1 U | 1.1 U |
| Hexachlorobutadiene | | 12 U | 7.1 U | 130 U | 7.5 U | 7.9 U | 7.8 U |
| Isopropyl alcohol | | 2.7 U | 1.6 U | 330 | 2.6 | 4.8 | 1.8 U |
| Isopropylbenzene | | 1.1 U | 0.66 U | 13 | 0.69 U | 0.73 U | 0.72 U |
| M&P Xylene | | 30 | 2.5 | 12 | 26 | 2.7 | 4.5 |
| Methyl chloride | | 0.46 U | 0.94 | 4.9 U | 0.29 U | 0.80 | 0.86 |
| Methyl ethyl ketone | | 1.2 | 0.95 | 12 | 10 | 49 | 2.1 |
| Methyl tert-butyl ether (MTBE) | | 0.80 U | 0.48 U | 8.6 U | 0.51 U | 0.54 U | 0.53 U |
| Methylene chloride | | 10 | 1.2 | 16 U | 6.7 | 1.4 | 1.4 |
| n-Heptane | | 140 | 0.69 | 28 | 340 EJ | 2.6 | 1.1 |
| n-Hexane | | 3.9 | 1.3 | 8.4 U | 6.8 | 2.0 | 2.3 |
| n-Propylbenzene | | 2.1 | 0.84 | 550 | 2.0 | 0.73 U | 0.72 U |
| Styrene | | 0.95 U | 0.57 U | 10 U | 1.8 | 0.63 U | 0.62 U |
| Tetrachloroethene | | 2.0 | 0.91 U | 16 U | 0.99 | 1.0 U | 0.99 U |
| Tetrahydrofuran | | 3.3 U | 2.0 U | 35 U | 2.1 U | 2.2 U | 2.2 U |
| Toluene | | 46 | 4.2 | 56 | 74 | 4.7 | 6.6 |
| trans-1,2-Dichloroethene | | 0.88 U | 0.53 U | 9.4 U | 0.56 U | 0.59 U | 0.58 U |
| trans-1,3-Dichloropropene | | 1.0 U | 0.61 U | 11 U | 0.64 U | 0.68 U | 0.66 U |
| Trichlorobenzenes (1,2,4-) | | 8.3 U | 5.0 U | 88 U | 5.2 U | 5.5 U | 5.4 U |
| Trichloroethene | | 1.7 | 0.17 | 2.6 U | 1.3 | 0.16 U | 0.18 |
| Trichlorofluoromethane | | 1.2 U | 1.4 | 13 U | 1.6 | 1.4 | 2.9 |
| Vinyl chloride | | 0.57 U | 0.34 U | 6.1 U | 0.36 U | 0.38 U | 0.37 U |

Notes: U - Analyte concentration not detected above reporting limit
E - Exceeds instrument calibration range
J - Estimated concentration

Table 1

Pizza Hut Off-Site Site Characterization
New York State Department of Environmental Conservation

Volatile Organic Compounds - Subslab Vapor and Indoor Air

| Sample Location | 3 | | 4 | | |
|---|---|---|---|---|---|
| Sample ID | SS-3-022707 | FF-3-022707 | SS-4-022707 | B-4-022707 | FF-4-022707 |
| Sample Date | 2/27/2007 | 2/27/2007 | 2/27/2007 | 2/27/2007 | 2/27/2007 |
| Chemical Name / Unit | ug/m3 | ug/m3 | ug/m3 | ug/m3 | ug/m3 |
| 1,1,1-Trichloroethane | 0.80 U | 0.84 U | 2.9 | 8.3 U | 9.3 U |
| 1,1,2,2-Tetrachloroethane | 1.0 U | 1.1 U | 1.0 U | 10 U | 12 U |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.1 U | 1.2 U | 1.2 U | 12 U | 13 U |
| 1,1,2-Trichloroethane | 0.80 U | 0.84 U | 0.83 U | 8.3 U | 9.3 U |
| 1,1-Dichloroethane | 0.59 U | 0.63 U | 0.62 U | 6.2 U | 6.9 U |
| 1,1-Dichloroethene | 0.58 U | 0.61 U | 0.60 U | 6.0 U | 6.8 U |
| 1,2,4-Trimethylbenzene | 8.6 | 2.8 | 15 | 7.5 U | 8.4 U |
| 1,2-Dichloroethane | 0.59 U | 0.63 U | 0.62 U | 6.2 U | 6.9 U |
| 1,2-Dichloropropane | 0.67 U | 0.72 U | 0.70 U | 7.0 U | 7.9 U |
| 1,2-Dichlorotetrafluoroethane | 1.0 U | 1.1 U | 1.1 U | 11 U | 12 U |
| 1,2-Xylene | 7.4 | 1.3 | 12 | 6.6 U | 7.4 U |
| 1,3,5-Trimethylbenzene | 2.0 | 1.2 | 3.5 | 7.5 U | 8.4 U |
| 1,4-Dioxane | 0.53 U | 0.56 U | 0.55 U | 5.5 U | 6.2 U |
| 2-Hexanone | 3.0 U | 3.2 U | 3.1 U | 31 U | 35 U |
| 4-Ethyltoluene | 6.6 | 3.7 | 12 | 7.5 U | 8.4 U |
| 4-Methyl-2-pentanone | 0.60 U | 0.63 U | 1.0 | 6.2 U | 7.0 U |
| Acetone | 32 | 8.8 | 94 | 35 | 120 |
| Benzene | 3.7 | 2.4 | 2.8 | 4.8 U | 15 |
| Benzyl chloride | 0.76 U | 0.80 U | 0.79 U | 7.9 U | 8.8 U |
| Bromodichloromethane | 0.98 U | 1.0 U | 2.6 | 10 U | 11 U |
| Bromoform | 1.5 U | 1.6 U | 1.6 U | 16 U | 18 U |
| Bromomethane | 0.57 U | 0.60 U | 0.59 U | 5.9 U | 6.6 U |
| Butadiene | 0.32 U | 0.34 U | 0.34 U | 3.4 U | 3.8 U |
| Carbon disulfide | 2.3 U | 2.4 U | 2.4 U | 24 U | 27 U |
| Carbon tetrachloride | 0.92 U | 0.54 | 0.96 U | 1.9 U | 2.2 U |
| Chlorobenzene | 0.67 U | 0.71 U | 0.70 U | 7.0 U | 7.9 U |
| Chloroethane | 0.38 U | 0.41 U | 0.40 | 4.0 U | 4.5 U |
| Chloroform | 0.68 J | 0.76 U | 26 | 7.4 U | 8.3 U |
| cis-1,2-Dichloroethene | 0.58 U | 0.61 U | 0.60 U | 6.0 U | 6.8 U |
| cis-1,3-Dichloropropene | 0.66 U | 0.70 U | 0.69 U | 6.9 U | 7.8 U |
| Cyclohexane | 13 | 0.66 | 15 | 5.2 U | 5.9 U |
| Dibromochloromethane | 1.2 U | 1.3 U | 1.3 U | 13 U | 14 U |

Notes: U - Analyte concentration not detected above reporting limit
E - Exceeds instrument calibration range
J - Estimated concentration

Table 1

Pizza Hut Off-Site Site Characterization
New York State Department of Environmental Conservation

Volatile Organic Compounds - Subslab Vapor and Indoor Air

| Sample Location | 3 | | 4 | | |
|---|---|---|---|---|---|
| Sample ID | SS-3-022707 | FF-3-022707 | SS-4-022707 | B-4-022707 | FF-4-022707 |
| Sample Date | 2/27/2007 | 2/27/2007 | 2/27/2007 | 2/27/2007 | 2/27/2007 |
| Chemical Name / Unit | ug/m3 | ug/m3 | ug/m3 | ug/m3 | ug/m3 |
| Dichlorobenzenes (1,2-) | 0.88 U | 0.93 U | 0.91 U | 9.1 U | 10 U |
| Dichlorobenzenes (1,3-) | 0.88 U | 0.93 U | 0.91 U | 9.1 U | 10 U |
| Dichlorobenzenes (1,4-) | 21 | 0.93 U | 36 | 21 | 120 |
| Dichlorodifluoromethane | 2.3 | 2.6 | 2.2 | 7.5 U | 8.4 U |
| Ethyl Alcohol | 9.3 | 10 | 54 | 6500 EJ | 6600 EJ |
| Ethylbenzene | 5.0 | 1.0 | 8.0 | 6.6 U | 7.4 U |
| Ethylene dibromide | 1.1 U | 1.2 U | 1.2 U | 12 U | 13 U |
| Hexachlorobutadiene | 7.8 U | 8.3 U | 8.1 U | 81 U | 91 U |
| Isopropyl alcohol | 3.2 | 1.9 U | 3.4 | 19 U | 34 |
| Isopropylbenzene | 0.72 U | 0.76 U | 0.72 J | 7.5 U | 8.4 U |
| M&P Xylene | 21 | 3.2 | 32 | 6.6 U | 7.4 U |
| Methyl chloride | 0.30 U | 1.2 | 0.31 U | 3.1 U | 3.5 U |
| Methyl ethyl ketone | 1.5 | 2.0 | 13 | 13 | 57 |
| Methyl tert-butyl ether (MTBE) | 0.53 U | 0.56 U | 0.55 U | 5.5 U | 6.2 U |
| Methylene chloride | 5.0 | 1.3 | 10 | 10 U | 12 U |
| n-Heptane | 130 | 1.2 | 120 | 6.2 U | 7.0 U |
| n-Hexane | 11 | 3.2 | 6.0 | 5.4 U | 5.8 J |
| n-Propylbenzene | 1.5 | 0.76 U | 2.6 | 7.5 U | 8.4 U |
| Styrene | 0.81 | 0.66 U | 0.90 | 6.5 U | 7.3 U |
| Tetrachloroethene | 0.99 U | 1.0 U | 13 | 10 U | 12 U |
| Tetrahydrofuran | 2.2 U | 2.3 U | 2.2 U | 22 U | 25 U |
| Toluene | 38 | 6.4 | 40 | 7.6 | 9.0 |
| trans-1,2-Dichloroethene | 0.58 U | 0.61 U | 0.60 U | 6.0 U | 6.8 U |
| trans-1,3-Dichloropropene | 0.66 U | 0.70 U | 0.69 U | 6.9 U | 7.8 U |
| Trichlorobenzenes (1,2,4-) | 5.4 U | 5.8 U | 5.6 U | 56 U | 63 U |
| Trichloroethene | 0.98 | 0.17 U | 1.4 | 1.6 U | 1.8 U |
| Trichlorofluoromethane | 1.2 | 1.4 | 1.8 | 8.5 U | 9.6 U |
| Vinyl chloride | 0.37 U | 0.40 U | 0.39 U | 3.9 U | 4.4 U |

Notes: U - Analyte concentration not detected above reporting limit
E - Exceeds instrument calibration range
J - Estimated concentration

Table 1

Pizza Hut Off-Site Site Characterization
New York State Department of Environmental Conservation

Volatile Organic Compounds - Subslab Vapor and Indoor Air

| Sample Location | | 5 | | 3 | Ambient Samples | |
|---|---|---|---|---|---|---|
| Sample ID | SS-5-022707 | B-5-022707 | FF-5-022707 | FF-DUP-022707 | Amb-E-022707 | Amb-W-022707 |
| Sample Date | 2/27/2007 | 2/27/2007 | 2/27/2007 | 2/27/2007 | 2/27/2007 | 2/27/2007 |
| Chemical Name | Unit | ug/m3 | ug/m3 | ug/m3 | ug/m3 | ug/m3 | ug/m3 |
| 1,1,1-Trichloroethane | | 0.84 U | 0.86 U | 0.86 U | 0.69 U | 1.0 U | 0.83 U |
| 1,1,2,2-Tetrachloroethane | | 1.1 U | 1.1 U | 1.1 U | 0.87 U | 1.2 U | 1.0 U |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | | 1.2 U | 1.2 U | 1.2 U | 0.97 U | 1.4 U | 1.2 U |
| 1,1,2-Trichloroethane | | 0.84 U | 0.86 U | 0.86 U | 0.69 U | 1.0 U | 0.83 U |
| 1,1-Dichloroethane | | 0.63 U | 0.64 U | 0.64 U | 0.51 U | 0.74 U | 0.62 U |
| 1,1-Dichloroethene | | 0.61 U | 0.63 U | 0.63 U | 0.50 U | 0.72 U | 0.60 U |
| 1,2,4-Trimethylbenzene | | 19 | 3.3 | 4.5 | 2.9 | 1.4 | 1.0 |
| 1,2-Dichloroethane | | 0.63 U | 0.64 U | 0.64 U | 0.51 U | 0.74 U | 0.62 U |
| 1,2-Dichloropropane | | 0.72 U | 0.73 U | 0.73 U | 0.59 U | 0.84 U | 0.70 U |
| 1,2-Dichlorotetrafluoroethane | | 1.1 U | 1.1 U | 1.1 U | 0.89 U | 1.3 U | 1.1 U |
| 1,2-Xylene | | 16 | 3.3 | 3.9 | 1.3 | 1.4 | 1.2 |
| 1,3,5-Trimethylbenzene | | 4.7 | 0.95 | 1.2 | 1.1 | 0.90 U | 0.75 U |
| 1,4-Dioxane | | 0.56 U | 0.57 U | 0.57 U | 0.46 U | 0.66 U | 0.55 U |
| 2-Hexanone | | 3.2 U | 3.2 U | 3.2 U | 2.6 U | 3.7 U | 3.1 U |
| 4-Ethyltoluene | | 15 | 2.9 | 3.5 | 4.0 | 1.3 | 0.98 |
| 4-Methyl-2-pentanone | | 1.1 | 0.65 U | 4.9 | 0.52 U | 0.75 U | 0.62 U |
| Acetone | | 55 | 7.4 | 95 | 12 | 12 | 6.1 |
| Benzene | | 4.7 | 3.6 | 4.4 | 2.4 | 2.4 | 2.1 |
| Benzyl chloride | | 0.80 U | 0.82 U | 0.82 U | 0.66 U | 0.95 U | 0.79 U |
| Bromodichloromethane | | 1.0 U | 1.0 U | 1.0 U | 0.85 U | 1.2 U | 1.0 U |
| Bromoform | | 1.6 U | 1.6 U | 1.6 U | 1.3 U | 1.9 U | 1.6 U |
| Bromomethane | | 0.60 U | 0.61 U | 0.61 U | 0.49 U | 0.71 U | 0.59 U |
| Butadiene | | 0.38 | 0.35 U | 0.34 J | 0.28 U | 0.40 U | 0.34 U |
| Carbon disulfide | | 2.4 U | 2.5 U | 2.5 U | 2.0 U | 2.8 U | 2.4 U |
| Carbon tetrachloride | | 0.98 U | 0.54 | 0.56 | 0.55 | 0.52 | 0.60 |
| Chlorobenzene | | 0.71 U | 0.73 U | 0.73 U | 0.58 U | 0.84 U | 0.70 U |
| Chloroethane | | 0.41 U | 0.42 U | 0.42 U | 0.34 U | 0.48 U | 0.40 U |
| Chloroform | | 0.76 U | 0.77 U | 0.77 U | 0.62 U | 0.89 U | 0.74 U |
| cis-1,2-Dichloroethene | | 0.61 U | 0.63 U | 0.63 U | 0.50 U | 0.72 U | 0.60 U |
| cis-1,3-Dichloropropene | | 0.70 U | 0.72 U | 0.72 U | 0.58 U | 0.83 U | 0.69 U |
| Cyclohexane | | 58 | 0.98 | 1.2 | 0.68 | 0.63 U | 0.52 U |
| Dibromochloromethane | | 1.3 U | 1.3 U | 1.3 U | 1.1 U | 1.6 U | 1.3 U |

Notes: U - Analyte concentration not detected above reporting limit
E - Exceeds instrument calibration range
J - Estimated concentration

Table 1

Pizza Hut Off-Site Site Characterization
New York State Department of Environmental Conservation

Volatile Organic Compounds - Subslab Vapor and Indoor Air

| Sample Location | | 5 | | 3 | Ambient Samples | |
|---|---|---|---|---|---|---|
| Sample ID | SS-5-022707 | B-5-022707 | FF-5-022707 | FF-DUP-022707 | Amb-E-022707 | Amb-W-022707 |
| Sample Date | 2/27/2007 | 2/27/2007 | 2/27/2007 | 2/27/2007 | 2/27/2007 | 2/27/2007 |
| Chemical Name | Unit | ug/m3 | ug/m3 | ug/m3 | ug/m3 | ug/m3 | ug/m3 |
| Dichlorobenzenes (1,2-) | 0.93 U | 0.95 U | 0.95 U | 0.76 U | 1.1 U | 0.91 U |
| Dichlorobenzenes (1,3-) | 0.93 U | 0.95 U | 0.95 U | 0.76 U | 1.1 U | 0.91 U |
| Dichlorobenzenes (1,4-) | 47 | 0.95 U | 0.95 U | 0.76 U | 1.1 U | 0.91 U |
| Dichlorodifluoromethane | 2.5 | 2.8 | 2.6 | 2.6 | 3.0 | 3.1 |
| Ethyl Alcohol | 7.5 | 19 | 48 | 11 | 14 | 9.4 |
| Ethylbenzene | 10 | 2.7 | 2.9 | 1.0 | 1.0 | 0.94 |
| Ethylene dibromide | 1.2 U | 1.2 U | 1.2 U | 0.98 U | 1.4 U | 1.2 U |
| Hexachlorobutadiene | 8.3 U | 8.4 U | 8.4 U | 6.8 U | 9.8 U | 8.1 U |
| Isopropyl alcohol | 1.9 U | 1.9 U | 4.3 | 1.6 U | 2.2 U | 2.0 |
| Isopropylbenzene | 0.76 U | 0.78 U | 0.78 U | 0.62 U | 0.90 U | 0.75 U |
| M&P Xylene | 42 | 9.8 | 12 | 3.0 | 3.6 | 2.8 |
| Methyl chloride | 0.42 | 0.94 | 0.33 U | 0.26 U | 1.1 | 1.0 |
| Methyl ethyl ketone | 6.7 | 3.0 | 5.5 | 2.6 | 2.6 | 1.8 |
| Methyl tert-butyl ether (MTBE) | 0.56 U | 0.57 U | 0.57 U | 0.46 U | 0.66 U | 0.55 U |
| Methylene chloride | 11 | 1.5 | 2.0 | 0.88 U | 1.4 | 1.4 |
| n-Heptane | 780 EJ | 1.9 | 3.7 | 0.99 | 0.91 | 0.86 |
| n-Hexane | 16 | 4.3 | 5.7 | 2.8 | 1.8 | 1.6 |
| n-Propylbenzene | 3.1 | 0.78 U | 0.78 U | 0.81 | 0.90 U | 0.75 U |
| Styrene | 1.9 | 0.67 U | 0.73 | 0.54 U | 0.78 U | 0.65 U |
| Tetrachloroethene | 1.0 J | 1.1 U | 1.1 U | 0.86 U | 1.2 U | 1.0 U |
| Tetrahydrofuran | 2.3 U | 2.3 U | 2.3 U | 1.9 U | 2.7 U | 2.2 U |
| Toluene | 130 | 16 | 20 | 5.3 | 6.2 | 5.1 |
| trans-1,2-Dichloroethene | 0.61 U | 0.63 U | 0.63 U | 0.50 U | 0.72 U | 0.60 U |
| trans-1,3-Dichloropropene | 0.70 U | 0.72 U | 0.72 U | 0.58 U | 0.83 U | 0.69 U |
| Trichlorobenzenes (1,2,4-) | 5.8 U | 5.9 U | 5.9 U | 4.7 U | 6.8 U | 5.6 U |
| Trichloroethene | 2.0 | 0.17 U | 0.17 U | 0.20 | 0.20 U | 0.17 |
| Trichlorofluoromethane | 1.4 | 1.5 | 1.8 | 1.4 | 1.5 | 1.7 |
| Vinyl chloride | 0.40 U | 0.40 U | 0.40 U | 0.32 U | 0.47 U | 0.39 U |

Notes: U - Analyte concentration not detected above reporting limit
E - Exceeds instrument calibration range
J - Estimated concentration

Table 2

Pizza Hut Off-Site Site Characterization
New York State Department of Environmental Conservation

NYSDOH Decision Matrix Outcomes Associated With Subslab and Indoor Air Sample Concentrations
February 2007

| | | Soil Vapor/Indoor Air Matrix 1 (October 2006) - Trichloroethene * | | | | |
|---|---|---|---|---|---|---|
| **Sample I.D.** | **Sample Period** | **Subslab** | **Basement** | **First Floor** | **Ambient** | **Matrix Decision Outcome** |
| 1 | Feb-07 | 1.7 | 0.17 | <2.6 | <0.20 / 0.17 | No Further Action |
| 2 | Feb-07 | 1.3 | <0.16 | 0.18 | <0.20 / 0.17 | No Further Action |
| 3 | Feb-07 | 0.98 | NS | <0.17 | <0.20 / 0.17 | No Further Action |
| 4 | Feb-07 | 1.4 | <1.6 | <1.8 | <0.20 / 0.17 | No Further Action |
| 5 | Feb-07 | 2 | <0.17 | <0.17 | <0.20 / 0.17 | No Further Action |

| | | Soil Vapor/Indoor Air Matrix 1 (October 2006) - Carbon Tetrachloride * | | | | |
|---|---|---|---|---|---|---|
| **Sample I.D.** | **Sample Period** | **Subslab** | **Basement** | **First Floor** | **Ambient** | **Matrix Decision Outcome** |
| 1 | Feb-07 | 1.6 | 0.55 | <3.0 | 0.52 / 0.60 | No Further Action[(1)] |
| 2 | Feb-07 | <0.89 | 0.54 | 0.56 | 0.52 / 0.60 | No Further Action[(1)] |
| 3 | Feb-07 | <0.92 | NS | 0.54 | 0.52 / 0.60 | No Further Action[(1)] |
| 4 | Feb-07 | <0.96 | <1.9 | <2.2 | 0.52 / 0.60 | No Further Action |
| 5 | Feb-07 | <0.98 | 0.54 | 0.56 | 0.52 / 0.60 | No Further Action[(1)] |

| | | Soil Vapor/Indoor Air Matrix 1 - Vinyl Chloride | | | | |
|---|---|---|---|---|---|---|
| **Sample I.D.** | **Sample Period** | **Subslab** | **Basement** | **First Floor** | **Ambient** | **Matrix Decision Outcome** |
| 1 | Feb-07 | <0.57 | <0.34 | <0.61 | <0.47 / <0.39 | No Further Action |
| 2 | Feb-07 | <0.36 | <0.38 | <0.37 | <0.47 / <0.39 | No Further Action |
| 3 | Feb-07 | <0.37 | NS | <0.40 | <0.47 / <0.39 | No Further Action |
| 4 | Feb-07 | <0.39 | <3.9 | <4.4 | <0.47 / <0.39 | No Further Action |
| 5 | Feb-07 | <0.4 | <0.4 | <0.4 | <0.47 / <0.39 | No Further Action |

| | | Soil Vapor/Indoor Air Matrix 2 (October 2006) - 1,1,1-Trichloroethane * | | | | |
|---|---|---|---|---|---|---|
| **Sample I.D.** | **Sample Period** | **Subslab** | **Basement** | **First Floor** | **Ambient** | **Matrix Decision Outcome** |
| 1 | Feb-07 | 1.6 | <0.73 | <13 | <1.0 / <0.83 | No Further Action |
| 2 | Feb-07 | <0.77 | <0.81 | <0.80 | <1.0 / <0.83 | No Further Action |
| 3 | Feb-07 | <0.80 | NS | <0.84 | <1.0 / <0.83 | No Further Action |
| 4 | Feb-07 | 2.9 | <8.3 | <9.3 | <1.0 / <0.83 | No Further Action |
| 5 | Feb-07 | <0.84 | <0.86 | <0.86 | <1.0 / <0.83 | No Further Action |

| | | Soil Vapor/Indoor Air Matrix 2 (October 2006) - Tetrachloroethene * | | | | |
|---|---|---|---|---|---|---|
| **Sample I.D.** | **Sample Period** | **Subslab** | **Basement** | **First Floor** | **Ambient** | **Matrix Decision Outcome** |
| 1 | Feb-07 | 2 | <0.91 | <16 | <1.2 / <1.0 | No Further Action |
| 2 | Feb-07 | 0.99 | <1.0 | <0.99 | <1.2 / <1.0 | No Further Action |
| 3 | Feb-07 | <0.99 | NS | <1.0 | <1.2 / <1.0 | No Further Action |
| 4 | Feb-07 | 13 | <10 | <12 | <1.2 / <1.0 | No Further Action |
| 5 | Feb-07 | 1 J | <1.1 | <1.1 | <1.2 / <1.0 | No Further Action |

| | | Soil Vapor/Indoor Air Matrix 2 - 1,1-Dichloroethene | | | | |
|---|---|---|---|---|---|---|
| **Sample I.D.** | **Sample Period** | **Subslab** | **Basement** | **First Floor** | **Ambient** | **Matrix Decision Outcome** |
| 1 | Feb-07 | <0.88 | <0.53 | <9.4 | <0.72 / <0.6 | No Further Action |
| 2 | Feb-07 | <0.56 | <0.59 | <0.58 | <0.72 / <0.6 | No Further Action |
| 3 | Feb-07 | <0.58 | NS | <0.61 | <0.72 / <0.6 | No Further Action |
| 4 | Feb-07 | <0.6 | <6 | <6.8 | <0.72 / <0.6 | No Further Action |
| 5 | Feb-07 | <0.61 | <0.63 | <0.63 | <0.72 / <0.6 | No Further Action |

| | | Soil Vapor/Indoor Air Matrix 2 - cis-1,2-Dichloroethene | | | | |
|---|---|---|---|---|---|---|
| **Sample I.D.** | **Sample Period** | **Subslab** | **Basement** | **First Floor** | **Ambient** | **Matrix Decision Outcome** |
| 1 | Feb-07 | <0.88 | <0.53 | <9.4 | <0.72 / <0.6 | No Further Action |
| 2 | Feb-07 | <0.56 | <0.59 | <0.58 | <0.72 / <0.6 | No Further Action |
| 3 | Feb-07 | <0.58 | NS | <0.61 | <0.72 / <0.6 | No Further Action |
| 4 | Feb-07 | <0.6 | <6 | <6.8 | <0.72 / <0.6 | No Further Action |
| 5 | Feb-07 | <0.61 | <0.63 | <0.63 | <0.72 / <0.6 | No Further Action |

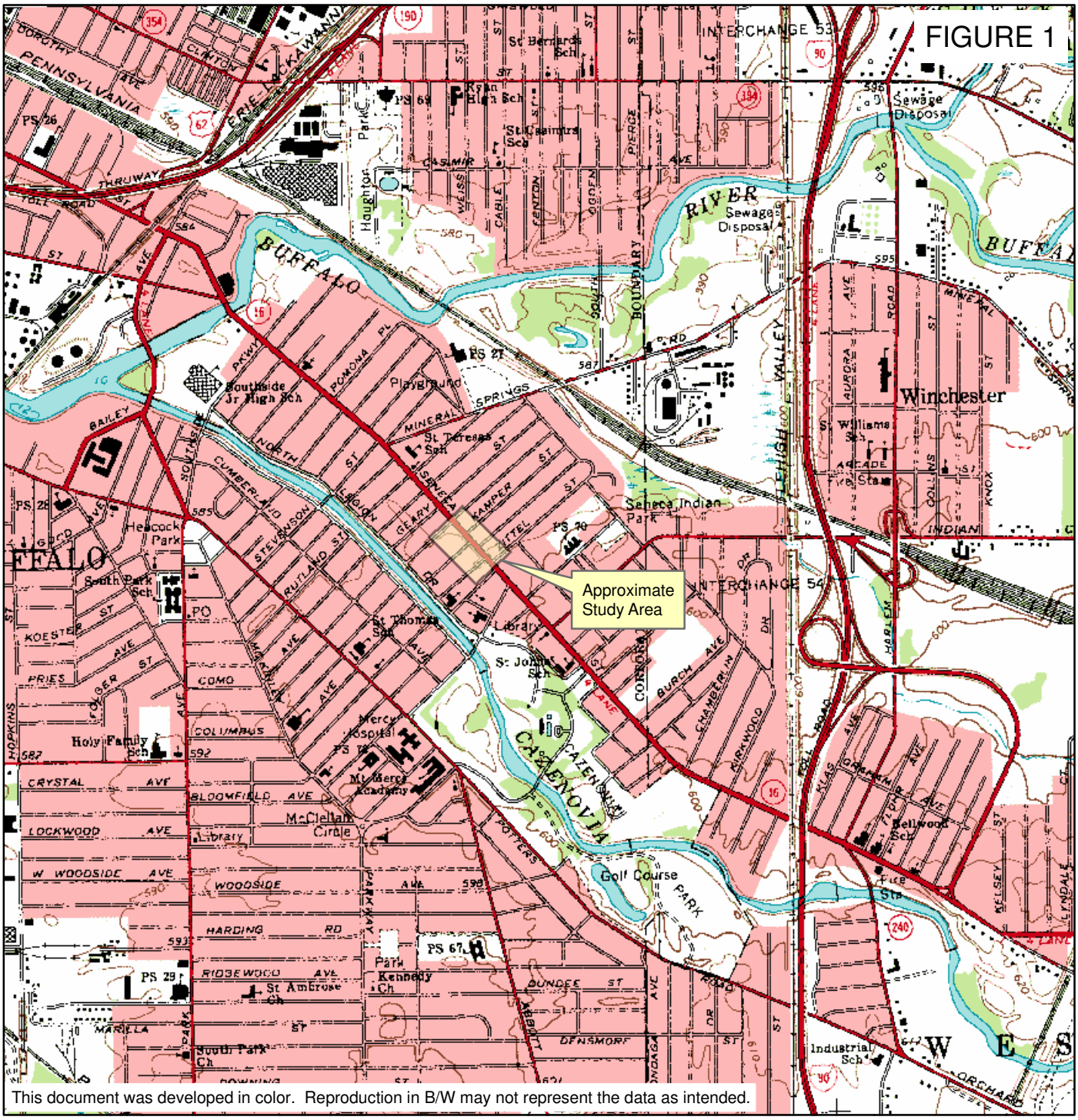
Notes: NS - Not Sampled (structure sampled does not have a basement)

* - New York State Department of Health, October 2006, Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York

(1) The concentration detected in the indoor air sample is likely due to outdoor sources rather than soil vapor intrusion

T:\PIZZAHUT\SITE_LOC.MXD

FIGURE 1

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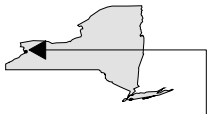
10/28/05

ADAPTED FROM: BUFFALO SE USGS QUADRANGLE



QUADRANGLE LOCATION

PIZZA HUT OFF-SITE
SITE CHARACTERIZATION
BUFFALO, NEW YORK

NEW YORK STATE DEPARTMENT OF
ENVIRONMENTAL CONSERVATION

# SITE LOCATION

0 1,000 2,000 4,000 6,000 8,000

Feet

10653/37211
10/28/05

1:24,000

O'BRIEN & GERE ENGINEERS, INC.

T:\10653\37211\IA_LOCS.mxd

# FIGURE 2


## Legend

- AMBIENT AIR SAMPLE
- INDOOR AIR SAMPLE
- FORMER DRY CLEANER PROPERTY
- CURRENT DRY CLEANER PROPERTY

NYSDEC
PIZZA HUT OFF-SITE SITE
CHARACTERIZATION
2137 SENECA STREET
BUFFALO, NEW YORK

## INDOOR AIR AND AMBIENT AIR SAMPLING LOCATIONS

0 50 100 200
Feet

JULY 2007
10653.37211

O'BRIEN & GERE ENGINEERS, INC.

7/10/07

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**Attachment A**

# Laboratory Data Report (on CD)

**Attachment B**

# Data Usability Summary Report

**SUMMARY OF THE ANALYTICAL DATA USABILITY**
**37211 Pizza Hut Site Characterization**

**Air Volatile Organic Analyses**
**Samples Collected February 27, 2007**
**Samples Received March 2, 2007**
**Sample Delivery Group: 0703060A**
**Laboratory Reference Numbers:**

| | |
|---|---|
| SS-1-022707 | 0703060-01 |
| SS-2-022707 | 0703060-02 |
| SS-3-022707 | 0703060-03 |
| SS-4-022707 | 0703060-04 |
| SS-5-022707 | 0703060-05 |

Air samples were validated for analyses of volatile organics by the US EPA Region II checklist. Data were reviewed for usability according to the following criteria:

- Data Completeness
* - GC/MS Tuning
* - Holding Times
* - Calibrations
* - Laboratory Blanks
- Field Blank
- Trip Blanks
- Storage Blank
* - Surrogate Compound Recoveries
* - Internal Standard Recoveries
- Matrix Spike / Matrix Spike Duplicate
* - Laboratory Control Sample
- Instrument Detection Limits
* - Compound Identification
- Compound Quantitation

* - Indicates that all criteria were met for this parameter.

**DATA USABILITY SUMMARY**

The laboratory did not use the standard NYS DEC ASP reporting format. All of the required documentation was included in the data package.

The concentration of heptane was above the linear range in samples SS-2-022707 (C0703036-02) ,82 E ppbv / 340E uG/m3, and sample SS-5-022707 (C0703036-05), 190 E ppbv / 780E uG/m3, were above the linear range of the analysis. The samples were not reanalyzed at a dilution. The data for heptane in these samples is highly estimated and was flagged with the “J” qualifier.

The reported relative response factors of some of the compounds quantitated against the later internal standards were slightly different than those calculated during the data validation in the initial and continuing calibrations. The differences were not large enough to affect the end use of the data.

**Holding Times**

All samples were analyzed within 30 days of the date of collection.

**Surrogate Recoveries**

All recoveries were reported as within the 70% - 130% quality assurance limits

**Tunes**

No other problems were detected with the tunes associated with the samples of this delivery group.

**Calibrations**

The reported relative response factors of some of the compounds quantitated against the later internal standards were slightly different than those calculated during the data validation in the initial and continuing calibrations. The differences were not large enough to affect the end use of the data.

No other problems were found with the initial or continuing calibrations. All RSDs and percent differences were less than 30%.

All RRFs of the target compounds were greater than 0.05.

**Matrix Spike / Matrix Spike Duplicate**

A matrix spike and matrix spike duplicate were not analyzed with this sample delivery group.

**Laboratory Control Sample**

All recoveries were within the laboratory's reported quality control limits.

**Field Duplicate**

A field duplicate was not analyzed with this sample delivery group.

**Method Blanks**

None of the target compounds were detected in any of the method blanks at concentrations above the PQLs.

**Holding Blank**

A holding blank was not analyzed with this sample delivery group.

**Internal Standard Areas and Retention Times**

All of the internal standard recoveries were within the 60% - 140% quality control limits .

**Instrument Detection Limits**

Instrument detection limits were not included the analytical package.

**Sample Results**

The concentration of heptane was above the linear range in samples SS-2-022707 (C0703036-02) ,82 E ppbv / 340E uG/m3, and sample SS-5-022707 (C0703036-05), 190 E ppbv / 780E uG/m3, were above the linear range of the analysis. The samples were not reanalyzed at a dilution. The data for heptane in these samples is highly estimated and was flagged with the “J” qualifier.

No other problems were found with the reported results of any of the samples of this delivery group.

**ANALYTICAL DATA VALIDATION WORKSHEETS**
**37211 Pizza Hut Site Characterization**

**Air Volatile Organic Analyses**
**Samples Collected February 27, 2007**
**Samples Received March 2, 2007**
**Sample Delivery Group: 0703060A**
**Laboratory Reference Numbers:**

| | |
|---|---|
| SS-1-022707 | 0703060-01 |
| SS-2-022707 | 0703060-02 |
| SS-3-022707 | 0703060-03 |
| SS-4-022707 | 0703060-04 |
| SS-5-022707 | 0703060-05 |

## INITIAL CALIBRATION

**Instrument ID:** msdf.i
**Level:** Low
**Tune File ID:** y301605.d **Acceptable:** Yes **Time Requirements Met:** Yes
**Initial Calibration File ID:** y031613.d **Date:** 3/16/2007 **Page:**
**Associated Samples:** All

| | QC %RSD | STD %RSD | QC RRF | STD RRF | | QC %RSD | STD %RSD | QC RRF | STD RRF |
|---|---|---|---|---|---|---|---|---|---|
| Freon 11 | 30% | | >0.05 | | 1,3,5-Trimethylbenzene | 30% | | >0.05 | |
| Freon 114 | 30% | | >0.05 | | 1,2,4-Trimethylbenzene | 30% | | >0.05 | |
| Chloromethane | 30% | | >0.05 | | 1,3-Dichlorobenzene | 30% | | >0.05 | |
| Vinyl Chloride | 30% | | >0.05 | | 1,4-Dichlorobenzene | 30% | | >0.05 | |
| Bromomethane | 30% | | >0.05 | | alpha-Chlorotoluene | 30% | | >0.05 | |
| Chloroethane | 30% | | >0.05 | | 1,2-Dichlorobenzene | 30% | | >0.05 | |
| Freon 11 | 30% | | >0.05 | | 1,2,4-Trichlorobenzene | 30% | | >0.05 | |
| 1,1-Dichloroethene | 30% | | >0.05 | | Hexaclhorobutadiene | 30% | | >0.05 | |
| Freon 113 | 30% | | >0.05 | | Propylene | 30% | | >0.05 | |
| Methylene Chloride | 30% | | >0.05 | | 1,3-Butadiene | 30% | | >0.05 | |
| 1,1-Dichloroethane | 30% | | >0.05 | | Acetone | 30% | | >0.05 | |
| cis-1,2-Dichloroethene | 30% | | >0.05 | | Carbon Disulfide | 30% | | >0.05 | |
| Chloroform | 30% | | >0.05 | | 2-Propanol | 30% | | >0.05 | |
| 1,1,1-Trichloroethane | 30% | | >0.05 | | trans-1,2-Dichloroethene | 30% | | >0.05 | |
| Carbon Tetrachloride | 30% | | >0.05 | | Vinyl Acetate | 30% | | >0.05 | |
| Benzene | 30% | | >0.05 | | 2-Butanone | 30% | | >0.05 | |
| 1,2-Dichloroethane | 30% | | >0.05 | | Hexane | 30% | | >0.05 | |
| Trichloroethene | 30% | | >0.05 | | Tetrahydrofuran | 30% | | >0.05 | |
| 1,2-Dichloropropane | 30% | | >0.05 | | Cyclohexane | 30% | | >0.05 | |
| cis-1,3-Dichloropropene | 30% | | >0.05 | | 1,4-Dioxane | 30% | | >0.05 | |
| Toluene | 30% | | >0.05 | | Bromodichloromethane | 30% | | >0.05 | |
| trans-1,3-Dichloropropene | 30% | | >0.05 | | 4-Methyl-2-pentanone | 30% | | >0.05 | |
| 1,1,2-Trichloroethene | 30% | | >0.05 | | 2-Hexanone | 30% | | >0.05 | |
| 1,2-Dibromoethane (EDB) | 30% | | >0.05 | | Dibromochloromethane | 30% | | >0.05 | |
| Chlorobenzene | 30% | | >0.05 | | Bromoform | 30% | | >0.05 | |
| Ethylbenzene | 30% | | >0.05 | | 4-Ethyltoluene | 30% | | >0.05 | |
| m.p-Xylene | 30% | | >0.05 | | Ethanol | 30% | | >0.05 | |
| o-Xylene | 30% | | >0.05 | | Methyl tert-Butyl Ether | 30% | | >0.05 | |
| Styrene | 30% | | >0.05 | | Heptane | 30% | | >0.05 | |
| 1,1,2,2-Tetrachloroethane | 30% | | >0.05 | | Naphthalene | 30% | | >0.05 | |

| | |
|---|---|
| All TCL Compounds %RSD < QC Limit: | Yes |
| TCL Compounds %RSD between 30% and 60% (J - qualify) | N/A |
| TCL Compounds %RSD between 60% and 90% (J - qualify) | N/A |
| TCL Compounds %RSD > 90% (R - reject undetected / J - detected) | N/A |

**CALIBRATION VERIFICATION:**

| **Compound** | 1,1-Dichloroethene | | | | Trichloroethene | | | |
|---|---|---|---|---|---|---|---|---|
| | **Area x** | **Area IS** | **calc rrf** | **Rprtd rrf** | **Area x** | **Area IS** | **calc rrf** | **Rprtd rrf** |
| **PPB** | | | | | | | | |
| **0.1** | 2,075 | 299,733 | 0.692 | 0.692 | 5,798 | 1,030,526 | 0.563 | 0.563 |
| **0.5** | 8,576 | 302,428 | 0.567 | 0.567 | 24,645 | 1,049,647 | 0.470 | 0.470 |
| **2** | 33,821 | 292,094 | 0.579 | 0.579 | 97,572 | 1,046,884 | 0.466 | 0.476 |
| **10** | 198,241 | 311,000 | 0.637 | 0.637 | 532,001 | 1,086,829 | 0.489 | 0.498 |
| **20** | 353,566 | 309,674 | 0.571 | 0.571 | 1,037,230 | 1,051,349 | 0.493 | 0.496 |
| **40** | 706,989 | 304,941 | 0.580 | 0.580 | 2,048,009 | 1,053,231 | 0.486 | 0.487 |
| **Average** | | | 0.604 | 0.604 | | | 0.495 | 0.498 |
| | | | **Calc** | **Reported** | | | **Calc** | **Reported** |
| **%RSD** | | | 8.30 | 8.30% | | | 7.10 | 6.73% |

**VOLATILE ORGANICS**
**CONTINUING CALIBRATION**

**Instrument ID:** msdf.i
**Level:** Low
**Tune File ID:** y031801.d **Acceptable:** Yes **Time Requirements Met:** Yes
**Calibration File ID:** y031802.d **Date:** 3/17/2007 **Page:**
**Initial Calibration File ID:** y031613.d **Date:** 3/16/2007 **Page:**
**Associated Samples:**

| | QC %D | STD %D | QC RRF | STD RRF | | QC %D | STD %D | QC RRF | STD RRF |
|---|---|---|---|---|---|---|---|---|---|
| Freon 11 | <30% | | >0.05 | | 1,3,5-Trimethylbenzene | <30% | | >0.05 | |
| Freon 114 | <30% | | >0.05 | | 1,2,4-Trimethylbenzene | <30% | | >0.05 | |
| Chloromethane | <30% | | >0.05 | | 1,3-Dichlorobenzene | <30% | | >0.05 | |
| Vinyl Chloride | <30% | | >0.05 | | 1,4-Dichlorobenzene | <30% | | >0.05 | |
| Bromomethane | <30% | | >0.05 | | alpha-Chlorotoluene | <30% | | >0.05 | |
| Chloroethane | <30% | | >0.05 | | 1,2-Dichlorobenzene | <30% | | >0.05 | |
| Freon 11 | <30% | | >0.05 | | 1,2,4-Trichlorobenzene | <30% | | >0.05 | |
| 1,1-Dichloroethene | <30% | | >0.05 | | Hexaclhorobutadiene | <30% | | >0.05 | |
| Freon 113 | <30% | | >0.05 | | Propylene | <30% | | >0.05 | |
| Methylene Chloride | <30% | | >0.05 | | 1,3-Butadiene | <30% | | >0.05 | |
| 1,1-Dichloroethane | <30% | | >0.05 | | Acetone | <30% | | >0.05 | |
| cis-1,2-Dichloroethene | <30% | | >0.05 | | Carbon Disulfide | <30% | | >0.05 | |
| Chloroform | <30% | | >0.05 | | 2-Propanol | <30% | | >0.05 | |
| 1,1,1-Trichloroethane | <30% | | >0.05 | | trans-1,2-Dichloroethene | <30% | | >0.05 | |
| Carbon Tetrachloride | <30% | | >0.05 | | Vinyl Acetate | <30% | | >0.05 | |
| Benzene | <30% | | >0.05 | | 2-Butanone | <30% | | >0.05 | |
| 1,2-Dichloroethane | <30% | | >0.05 | | Hexane | <30% | | >0.05 | |
| Trichloroethene | <30% | | >0.05 | | Tetrahydrofuran | <30% | | >0.05 | |
| 1,2-Dichloropropane | <30% | | >0.05 | | Cyclohexane | <30% | | >0.05 | |
| cis-1,3-Dichloropropene | <30% | | >0.05 | | 1,4-Dioxane | <30% | | >0.05 | |
| Toluene | <30% | | >0.05 | | Bromodichloromethane | <30% | | >0.05 | |
| trans-1,3-Dichloropropene | <30% | | >0.05 | | 4-Methyl-2-pentanone | <30% | | >0.05 | |
| 1,1,2-Trichloroethene | <30% | | >0.05 | | 2-Hexanone | <30% | | >0.05 | |
| 1,2-Dibromoethane (EDB) | <30% | | >0.05 | | Dibromochloromethane | <30% | | >0.05 | |
| Chlorobenzene | <30% | | >0.05 | | Bromoform | <30% | | >0.05 | |
| Ethylbenzene | <30% | | >0.05 | | 4-Ethyltoluene | <30% | | >0.05 | |
| m.p-Xylene | <30% | | >0.05 | | Ethanol | <30% | | >0.05 | |
| o-Xylene | <30% | | >0.05 | | Methyl tert-Butyl Ether | <30% | | >0.05 | |
| Styrene | <30% | | >0.05 | | Heptane | <30% | | >0.05 | |
| 1,1,2,2-Tetrachloroethane | <30% | | >0.05 | | Naphthalene | <30% | | >0.05 | |

| | QC %D | STD %D | QC RRF | STD RRF |
|---|---|---|---|---|
| Surrogates: | | | | |
| Toluene-d8 | <30% | | >0.050 | |
| Bromofluorobenzene * | <30% | | >0.050 | |
| 1,2-Dichloroethane-d4 | <30% | | >0.050 | |

All TCL Compounds Average RRF > 0.050: yes

All TCL Compounds %D < QC Limit: Yes
TCL Compounds %D between 30% and 60% (J - qualify) N/A
TCL Compounds %D between 60% and 90% (J - qualify) N/A
TCL Compounds %D > 90% (R - reject undetected / J - detected) N/A

**CALIBRATION VERIFICATION:**

| **Compound** | Hexane | | | | Styrene | | | |
|---|---|---|---|---|---|---|---|---|
| | **Area x** | **Area IS** | **calc rrf** | **Rprtd rrf** | **Area x** | **Area IS** | **calc rrf** | **Rprtd rrf** |
| **PPB** | | | | | | | | |
| **5** | 354,843 | 310,813 | 2.283 | 2.283 | 722,286 | 1,046,603 | 1.380 | 1.380 |
| **% D** | | **Avg RRF** | **% D Calc** | **% D Reported** | | **Avg RRF** | **% D Calc** | **% D Reported** |
| | | 2.27932 | 0.18 | 0.175 | | 1.34943 | 2.28 | 2.28 |

**VOLATILE ORGANICS**
**CONTINUING CALIBRATION**

**Instrument ID:** msdf.i
**Level:** Low
**Tune File ID:** y031801.d **Acceptable:** Yes **Time Requirements Met:** Yes
**Calibration File ID:** y031802.d **Date:** 3/18/2007 **Page:**
**Initial Calibration File ID:** y031613.d **Date:** 3/16/2007 **Page:**
**Associated Samples:**

| | QC %D | STD %D | QC RRF | STD RRF | | QC %D | STD %D | QC RRF | STD RRF |
|---|---|---|---|---|---|---|---|---|---|
| Freon 11 | <30% | | >0.05 | | 1,3,5-Trimethylbenzene | <30% | | >0.05 | |
| Freon 114 | <30% | | >0.05 | | 1,2,4-Trimethylbenzene | <30% | | >0.05 | |
| Chloromethane | <30% | | >0.05 | | 1,3-Dichlorobenzene | <30% | | >0.05 | |
| Vinyl Chloride | <30% | | >0.05 | | 1,4-Dichlorobenzene | <30% | | >0.05 | |
| Bromomethane | <30% | | >0.05 | | alpha-Chlorotoluene | <30% | | >0.05 | |
| Chloroethane | <30% | | >0.05 | | 1,2-Dichlorobenzene | <30% | | >0.05 | |
| Freon 11 | <30% | | >0.05 | | 1,2,4-Trichlorobenzene | <30% | | >0.05 | |
| 1,1-Dichloroethene | <30% | | >0.05 | | Hexaclhorobutadiene | <30% | | >0.05 | |
| Freon 113 | <30% | | >0.05 | | Propylene | <30% | | >0.05 | |
| Methylene Chloride | <30% | | >0.05 | | 1,3-Butadiene | <30% | | >0.05 | |
| 1,1-Dichloroethane | <30% | | >0.05 | | Acetone | <30% | | >0.05 | |
| cis-1,2-Dichloroethene | <30% | | >0.05 | | Carbon Disulfide | <30% | | >0.05 | |
| Chloroform | <30% | | >0.05 | | 2-Propanol | <30% | | >0.05 | |
| 1,1,1-Trichloroethane | <30% | | >0.05 | | trans-1,2-Dichloroethene | <30% | | >0.05 | |
| Carbon Tetrachloride | <30% | | >0.05 | | Vinyl Acetate | <30% | | >0.05 | |
| Benzene | <30% | | >0.05 | | 2-Butanone | <30% | | >0.05 | |
| 1,2-Dichloroethane | <30% | | >0.05 | | Hexane | <30% | | >0.05 | |
| Trichloroethene | <30% | | >0.05 | | Tetrahydrofuran | <30% | | >0.05 | |
| 1,2-Dichloropropane | <30% | | >0.05 | | Cyclohexane | <30% | | >0.05 | |
| cis-1,3-Dichloropropene | <30% | | >0.05 | | 1,4-Dioxane | <30% | | >0.05 | |
| Toluene | <30% | | >0.05 | | Bromodichloromethane | <30% | | >0.05 | |
| trans-1,3-Dichloropropene | <30% | | >0.05 | | 4-Methyl-2-pentanone | <30% | | >0.05 | |
| 1,1,2-Trichloroethene | <30% | | >0.05 | | 2-Hexanone | <30% | | >0.05 | |
| 1,2-Dibromoethane (EDB) | <30% | | >0.05 | | Dibromochloromethane | <30% | | >0.05 | |
| Chlorobenzene | <30% | | >0.05 | | Bromoform | <30% | | >0.05 | |
| Ethylbenzene | <30% | | >0.05 | | 4-Ethyltoluene | <30% | | >0.05 | |
| m.p-Xylene | <30% | | >0.05 | | Ethanol | <30% | | >0.05 | |
| o-Xylene | <30% | | >0.05 | | Methyl tert-Butyl Ether | <30% | | >0.05 | |
| Styrene | <30% | | >0.05 | | Heptane | <30% | | >0.05 | |
| 1,1,2,2-Tetrachloroethane | <30% | | >0.05 | | Naphthalene | <30% | | >0.05 | |

| | QC %D | STD %D | QC RRF | STD RRF |
|---|---|---|---|---|
| Surrogates: | | | | |
| Toluene-d8 | <30% | | >0.050 | |
| Bromofluorobenzene * | <30% | | >0.050 | |
| 1,2-Dichloroethane-d4 | <30% | | >0.050 | |

All TCL Compounds Average RRF > 0.050: yes

All TCL Compounds %D < QC Limit: Yes
TCL Compounds %D between 30% and 60% (J - qualify) N/A
TCL Compounds %D between 60% and 90% (J - qualify) N/A
TCL Compounds %D > 90% (R - reject undetected / J - detected) N/A

**CALIBRATION VERIFICATION:**

| **Compound** | Benzene | | | | 1,2-Dichlorobenzene | | | |
|---|---|---|---|---|---|---|---|---|
| | **Area x** | **Area IS** | **calc rrf** | **Rprtd rrf** | **Area x** | **Area IS** | **calc rrf** | **Rprtd rrf** |
| **PPB** | | | | | | | | |
| **5** | 963,021 | 1,015,507 | 1.897 | 1.897 | 689,958 | 1,028,691 | 1.341 | 1.389 |
| **% D** | | **Avg RRF** | **% D** | **% D** | | **Avg RRF** | **% D** | **% D** |
| | | 1.83655 | **Calc** | **Reported** | | 1.38297 | **Calc** | **Reported** |
| | | | 3.27 | 3.27 | | | -3.00 | 0.44 |

**VOLATILE ORGANICS**
**CONTINUING CALIBRATION**

**Instrument ID:** msdf.i
**Level:** Low
**Tune File ID:** y031801.d **Acceptable:** Yes **Time Requirements Met:** Yes
**Calibration File ID:** y031802.d **Date:** 3/19/2007 **Page:**
**Initial Calibration File ID:** y031613.d **Date:** 3/16/2007 **Page:**
**Associated Samples:**

| | QC %D | STD %D | QC RRF | STD RRF | | QC %D | STD %D | QC RRF | STD RRF |
|---|---|---|---|---|---|---|---|---|---|
| Freon 11 | <30% | | >0.05 | | 1,3,5-Trimethylbenzene | <30% | | >0.05 | |
| Freon 114 | <30% | | >0.05 | | 1,2,4-Trimethylbenzene | <30% | | >0.05 | |
| Chloromethane | <30% | | >0.05 | | 1,3-Dichlorobenzene | <30% | | >0.05 | |
| Vinyl Chloride | <30% | | >0.05 | | 1,4-Dichlorobenzene | <30% | | >0.05 | |
| Bromomethane | <30% | | >0.05 | | alpha-Chlorotoluene | <30% | | >0.05 | |
| Chloroethane | <30% | | >0.05 | | 1,2-Dichlorobenzene | <30% | | >0.05 | |
| Freon 11 | <30% | | >0.05 | | 1,2,4-Trichlorobenzene | <30% | | >0.05 | |
| 1,1-Dichloroethene | <30% | | >0.05 | | Hexaclhorobutadiene | <30% | | >0.05 | |
| Freon 113 | <30% | | >0.05 | | Propylene | <30% | | >0.05 | |
| Methylene Chloride | <30% | | >0.05 | | 1,3-Butadiene | <30% | | >0.05 | |
| 1,1-Dichloroethane | <30% | | >0.05 | | Acetone | <30% | | >0.05 | |
| cis-1,2-Dichloroethene | <30% | | >0.05 | | Carbon Disulfide | <30% | | >0.05 | |
| Chloroform | <30% | | >0.05 | | 2-Propanol | <30% | | >0.05 | |
| 1,1,1-Trichloroethane | <30% | | >0.05 | | trans-1,2-Dichloroethene | <30% | | >0.05 | |
| Carbon Tetrachloride | <30% | | >0.05 | | Vinyl Acetate | <30% | | >0.05 | |
| Benzene | <30% | | >0.05 | | 2-Butanone | <30% | | >0.05 | |
| 1,2-Dichloroethane | <30% | | >0.05 | | Hexane | <30% | | >0.05 | |
| Trichloroethene | <30% | | >0.05 | | Tetrahydrofuran | <30% | | >0.05 | |
| 1,2-Dichloropropane | <30% | | >0.05 | | Cyclohexane | <30% | | >0.05 | |
| cis-1,3-Dichloropropene | <30% | | >0.05 | | 1,4-Dioxane | <30% | | >0.05 | |
| Toluene | <30% | | >0.05 | | Bromodichloromethane | <30% | | >0.05 | |
| trans-1,3-Dichloropropene | <30% | | >0.05 | | 4-Methyl-2-pentanone | <30% | | >0.05 | |
| 1,1,2-Trichloroethene | <30% | | >0.05 | | 2-Hexanone | <30% | | >0.05 | |
| 1,2-Dibromoethane (EDB) | <30% | | >0.05 | | Dibromochloromethane | <30% | | >0.05 | |
| Chlorobenzene | <30% | | >0.05 | | Bromoform | <30% | | >0.05 | |
| Ethylbenzene | <30% | | >0.05 | | 4-Ethyltoluene | <30% | | >0.05 | |
| m.p-Xylene | <30% | | >0.05 | | Ethanol | <30% | | >0.05 | |
| o-Xylene | <30% | | >0.05 | | Methyl tert-Butyl Ether | <30% | | >0.05 | |
| Styrene | <30% | | >0.05 | | Heptane | <30% | | >0.05 | |
| 1,1,2,2-Tetrachloroethane | <30% | | >0.05 | | Naphthalene | <30% | | >0.05 | |

| | QC %D | STD %D | QC RRF | STD RRF |
|---|---|---|---|---|
| Surrogates: | | | | |
| Toluene-d8 | <30% | | >0.050 | |
| Bromofluorobenzene * | <30% | | >0.050 | |
| 1,2-Dichloroethane-d4 | <30% | | >0.050 | |

All TCL Compounds Average RRF > 0.050: yes

All TCL Compounds %D < QC Limit: Yes
TCL Compounds %D between 30% and 60% (J - qualify) N/A
TCL Compounds %D between 60% and 90% (J - qualify) N/A
TCL Compounds %D > 90% (R - reject undetected / J - detected) N/A

**CALIBRATION VERIFICATION:**

| **Compound** | MTBE | | | | Ethyl Benzene | | | |
|---|---|---|---|---|---|---|---|---|
| | **Area x** | **Area IS** | **calc rrf** | **Rprtd rrf** | **Area x** | **Area IS** | **calc rrf** | **Rprtd rrf** |
| **PPB** | | | | | | | | |
| **5** | 473,767 | 297,083 | 3.189 | 3.189 | 348,875 | 982,090 | 0.710 | 0.710 |
| **% D** | | **Avg RRF** | **% D** | **% D** | | **Avg RRF** | **% D** | **% D** |
| | | 3.32897 | **Calc** | **Reported** | | 0.67836 | **Calc** | **Reported** |
| | | | -4.19 | 4.19088 | | | 4.73 | 4.73 |

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: SS-1-022707**

**Lab ID#: 0703060A-01A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| File Name: | y031818 | Date of Collection: | 2/27/07 |
| Dil. Factor: | 2.23 | Date of Analysis: | 3/19/07 12:41 AM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Freon 12 | 0.22 | 0.95 | 1.1 | 4.7 |
| Freon 114 | 0.22 | Not Detected | 1.6 | Not Detected |
| Chloromethane | 0.22 | Not Detected | 0.46 | Not Detected |
| Vinyl Chloride | 0.22 | Not Detected | 0.57 | Not Detected |
| 1,3-Butadiene | 0.22 | Not Detected | 0.49 | Not Detected |
| Bromomethane | 0.22 | Not Detected | 0.87 | Not Detected |
| Chloroethane | 0.22 | Not Detected | 0.59 | Not Detected |
| Freon 11 | 0.22 | Not Detected | 1.2 | Not Detected |
| Ethanol | 1.1 | Not Detected | 2.1 | Not Detected |
| Freon 113 | 0.22 | Not Detected | 1.7 | Not Detected |
| 1,1-Dichloroethene | 0.22 | Not Detected | 0.88 | Not Detected |
| Acetone | 1.1 | 11 | 2.6 | 26 |
| 2-Propanol | 1.1 | Not Detected | 2.7 | Not Detected |
| Carbon Disulfide | 1.1 | Not Detected | 3.5 | Not Detected |
| Methylene Chloride | 0.45 | 3.0 | 1.5 | 10 |
| Methyl tert-butyl ether | 0.22 | Not Detected | 0.80 | Not Detected |
| trans-1,2-Dichloroethene | 0.22 | Not Detected | 0.88 | Not Detected |
| Hexane | 0.22 | 1.1 | 0.78 | 3.9 |
| 1,1-Dichloroethane | 0.22 | Not Detected | 0.90 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 0.22 | 0.41 | 0.66 | 1.2 |
| cis-1,2-Dichloroethene | 0.22 | Not Detected | 0.88 | Not Detected |
| Tetrahydrofuran | 1.1 | Not Detected | 3.3 | Not Detected |
| Chloroform | 0.22 | 1.6 | 1.1 | 7.8 |
| 1,1,1-Trichloroethane | 0.22 | 0.29 | 1.2 | 1.6 |
| Cyclohexane | 0.22 | 3.7 | 0.77 | 13 |
| Carbon Tetrachloride | 0.22 | 0.25 | 1.4 | 1.6 |
| Benzene | 0.22 | 0.92 | 0.71 | 3.0 |
| 1,2-Dichloroethane | 0.22 | Not Detected | 0.90 | Not Detected |
| Heptane | 0.22 | 35 | 0.91 | 140 |
| Trichloroethene | 0.22 | 0.32 | 1.2 | 1.7 |
| 1,2-Dichloropropane | 0.22 | Not Detected | 1.0 | Not Detected |
| 1,4-Dioxane | 0.22 | Not Detected | 0.80 | Not Detected |
| Bromodichloromethane | 0.22 | Not Detected | 1.5 | Not Detected |
| cis-1,3-Dichloropropene | 0.22 | Not Detected | 1.0 | Not Detected |
| 4-Methyl-2-pentanone | 0.22 | Not Detected | 0.91 | Not Detected |
| Toluene | 0.22 | 12 | 0.84 | 46 |
| trans-1,3-Dichloropropene | 0.22 | Not Detected | 1.0 | Not Detected |
| 1,1,2-Trichloroethane | 0.22 | Not Detected | 1.2 | Not Detected |
| Tetrachloroethene | 0.22 | 0.30 | 1.5 | 2.0 |

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: SS-1-022707**

**Lab ID#: 0703060A-01A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **y031818** | **Date of Collection:** | **2/27/07** |
| **Dil. Factor:** | **2.23** | **Date of Analysis:** | **3/19/07 12:41 AM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| 2-Hexanone | 1.1 | Not Detected | 4.6 | Not Detected |
| Dibromochloromethane | 0.22 | Not Detected | 1.9 | Not Detected |
| 1,2-Dibromoethane (EDB) | 0.22 | Not Detected | 1.7 | Not Detected |
| Chlorobenzene | 0.22 | Not Detected | 1.0 | Not Detected |
| Ethyl Benzene | 0.22 | 1.9 | 0.97 | 8.3 |
| m,p-Xylene | 0.22 | 6.8 | 0.97 | 30 |
| o-Xylene | 0.22 | 2.6 | 0.97 | 11 |
| Styrene | 0.22 | Not Detected | 0.95 | Not Detected |
| Bromoform | 0.22 | Not Detected | 2.3 | Not Detected |
| Cumene | 0.22 | Not Detected | 1.1 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 0.22 | Not Detected | 1.5 | Not Detected |
| Propylbenzene | 0.22 | 0.43 | 1.1 | 2.1 |
| 4-Ethyltoluene | 0.22 | 1.8 | 1.1 | 8.8 |
| 1,3,5-Trimethylbenzene | 0.22 | 0.58 | 1.1 | 2.9 |
| 1,2,4-Trimethylbenzene | 0.22 | 2.2 | 1.1 | 11 |
| 1,3-Dichlorobenzene | 0.22 | Not Detected | 1.3 | Not Detected |
| 1,4-Dichlorobenzene | 0.22 | 3.8 | 1.3 | 23 |
| alpha-Chlorotoluene | 0.22 | Not Detected | 1.2 | Not Detected |
| 1,2-Dichlorobenzene | 0.22 | Not Detected | 1.3 | Not Detected |
| 1,2,4-Trichlorobenzene | 1.1 | Not Detected | 8.3 | Not Detected |
| Hexachlorobutadiene | 1.1 | Not Detected | 12 | Not Detected |

**Container Type: 6 Liter Summa Special**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 94 | 70-130 |
| Toluene-d8 | 101 | 70-130 |
| 4-Bromofluorobenzene | 101 | 70-130 |



0008

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: SS-2-022707**

**Lab ID#: 0703060A-02A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **y031819** | **Date of Collection:** | **2/27/07** |
| **Dil. Factor:** | **1.41** | **Date of Analysis:** | **3/19/07 01:37 AM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Freon 12 | 0.14 | 0.75 | 0.70 | 3.7 |
| Freon 114 | 0.14 | Not Detected | 0.98 | Not Detected |
| Chloromethane | 0.14 | Not Detected | 0.29 | Not Detected |
| Vinyl Chloride | 0.14 | Not Detected | 0.36 | Not Detected |
| 1,3-Butadiene | 0.14 | 0.17 | 0.31 | 0.38 |
| Bromomethane | 0.14 | Not Detected | 0.55 | Not Detected |
| Chloroethane | 0.14 | Not Detected | 0.37 | Not Detected |
| Freon 11 | 0.14 | 0.29 | 0.79 | 1.6 |
| Ethanol | 0.70 | 5.8 | 1.3 | 11 |
| Freon 113 | 0.14 | Not Detected | 1.1 | Not Detected |
| 1,1-Dichloroethene | 0.14 | Not Detected | 0.56 | Not Detected |
| Acetone | 0.70 | 37 | 1.7 | 88 |
| 2-Propanol | 0.70 | 1.1 | 1.7 | 2.6 |
| Carbon Disulfide | 0.70 | Not Detected | 2.2 | Not Detected |
| Methylene Chloride | 0.28 | 1.9 | 0.98 | 6.7 |
| Methyl tert-butyl ether | 0.14 | Not Detected | 0.51 | Not Detected |
| trans-1,2-Dichloroethene | 0.14 | Not Detected | 0.56 | Not Detected |
| Hexane | 0.14 | 1.9 | 0.50 | 6.8 |
| 1,1-Dichloroethane | 0.14 | Not Detected | 0.57 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 0.14 | 3.6 | 0.42 | 10 |
| cis-1,2-Dichloroethene | 0.14 | Not Detected | 0.56 | Not Detected |
| Tetrahydrofuran | 0.70 | Not Detected | 2.1 | Not Detected |
| Chloroform | 0.14 | 3.1 | 0.69 | 15 |
| 1,1,1-Trichloroethane | 0.14 | Not Detected | 0.77 | Not Detected |
| Cyclohexane | 0.14 | 8.2 | 0.48 | 28 |
| Carbon Tetrachloride | 0.14 | Not Detected | 0.89 | Not Detected |
| Benzene | 0.14 | 0.78 | 0.45 | 2.5 |
| 1,2-Dichloroethane | 0.14 | Not Detected | 0.57 | Not Detected |
| Heptane | 0.14 | 82 E | 0.58 | 340 E |
| Trichloroethene | 0.14 | 0.25 | 0.76 | 1.3 |
| 1,2-Dichloropropane | 0.14 | Not Detected | 0.65 | Not Detected |
| 1,4-Dioxane | 0.14 | Not Detected | 0.51 | Not Detected |
| Bromodichloromethane | 0.14 | 0.24 | 0.94 | 1.6 |
| cis-1,3-Dichloropropene | 0.14 | Not Detected | 0.64 | Not Detected |
| 4-Methyl-2-pentanone | 0.14 | 0.24 | 0.58 | 0.98 |
| Toluene | 0.14 | 20 | 0.53 | 74 |
| trans-1,3-Dichloropropene | 0.14 | Not Detected | 0.64 | Not Detected |
| 1,1,2-Trichloroethane | 0.14 | Not Detected | 0.77 | Not Detected |
| Tetrachloroethene | 0.14 | 0.14 | 0.96 | 0.99 |

0039

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: SS-2-022707**

**Lab ID#: 0703060A-02A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **y031819** | **Date of Collection: 2/27/07** | |
| **Dil. Factor:** | **1.41** | **Date of Analysis: 3/19/07 01:37 AM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| 2-Hexanone | 0.70 | Not Detected | 2.9 | Not Detected |
| Dibromochloromethane | 0.14 | Not Detected | 1.2 | Not Detected |
| 1,2-Dibromoethane (EDB) | 0.14 | Not Detected | 1.1 | Not Detected |
| Chlorobenzene | 0.14 | Not Detected | 0.65 | Not Detected |
| Ethyl Benzene | 0.14 | 1.5 | 0.61 | 6.5 |
| m,p-Xylene | 0.14 | 6.1 | 0.61 | 26 |
| o-Xylene | 0.14 | 2.4 | 0.61 | 10 |
| Styrene | 0.14 | 0.42 | 0.60 | 1.8 |
| Bromoform | 0.14 | Not Detected | 1.4 | Not Detected |
| Cumene | 0.14 | Not Detected | 0.69 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 0.14 | Not Detected | 0.97 | Not Detected |
| Propylbenzene | 0.14 | 0.42 | 0.69 | 2.0 |
| 4-Ethyltoluene | 0.14 | 2.0 | 0.69 | 9.8 |
| 1,3,5-Trimethylbenzene | 0.14 | 0.60 | 0.69 | 3.0 |
| 1,2,4-Trimethylbenzene | 0.14 | 2.5 | 0.69 | 12 |
| 1,3-Dichlorobenzene | 0.14 | Not Detected | 0.85 | Not Detected |
| 1,4-Dichlorobenzene | 0.14 | 5.1 | 0.85 | 31 |
| alpha-Chlorotoluene | 0.14 | Not Detected | 0.73 | Not Detected |
| 1,2-Dichlorobenzene | 0.14 | Not Detected | 0.85 | Not Detected |
| 1,2,4-Trichlorobenzene | 0.70 | Not Detected | 5.2 | Not Detected |
| Hexachlorobutadiene | 0.70 | Not Detected | 7.5 | Not Detected |

E = Exceeds instrument calibration range.

**Container Type: 6 Liter Summa Special**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 96 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 103 | 70-130 |



0040

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: SS-3-022707**

**Lab ID#: 0703060A-03A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| File Name: | y031822 | Date of Collection: | 2/27/07 |
| Dil. Factor: | 1.46 | Date of Analysis: | 3/19/07 04:20 AM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Freon 12 | 0.15 | 0.46 | 0.72 | 2.3 |
| Freon 114 | 0.15 | Not Detected | 1.0 | Not Detected |
| Chloromethane | 0.15 | Not Detected | 0.30 | Not Detected |
| Vinyl Chloride | 0.15 | Not Detected | 0.37 | Not Detected |
| 1,3-Butadiene | 0.15 | Not Detected | 0.32 | Not Detected |
| Bromomethane | 0.15 | Not Detected | 0.57 | Not Detected |
| Chloroethane | 0.15 | Not Detected | 0.38 | Not Detected |
| Freon 11 | 0.15 | 0.22 | 0.82 | 1.2 |
| Ethanol | 0.73 | 4.9 | 1.4 | 9.3 |
| Freon 113 | 0.15 | Not Detected | 1.1 | Not Detected |
| 1,1-Dichloroethene | 0.15 | Not Detected | 0.58 | Not Detected |
| Acetone | 0.73 | 14 | 1.7 | 32 |
| 2-Propanol | 0.73 | 1.3 | 1.8 | 3.2 |
| Carbon Disulfide | 0.73 | Not Detected | 2.3 | Not Detected |
| Methylene Chloride | 0.29 | 1.4 | 1.0 | 5.0 |
| Methyl tert-butyl ether | 0.15 | Not Detected | 0.53 | Not Detected |
| trans-1,2-Dichloroethene | 0.15 | Not Detected | 0.58 | Not Detected |
| Hexane | 0.15 | 3.2 | 0.51 | 11 |
| 1,1-Dichloroethane | 0.15 | Not Detected | 0.59 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 0.15 | 0.50 | 0.43 | 1.5 |
| cis-1,2-Dichloroethene | 0.15 | Not Detected | 0.58 | Not Detected |
| Tetrahydrofuran | 0.73 | Not Detected | 2.2 | Not Detected |
| Chloroform | 0.15 | 0.14 J | 0.71 | 0.68 J |
| 1,1,1-Trichloroethane | 0.15 | Not Detected | 0.80 | Not Detected |
| Cyclohexane | 0.15 | 3.8 | 0.50 | 13 |
| Carbon Tetrachloride | 0.15 | Not Detected | 0.92 | Not Detected |
| Benzene | 0.15 | 1.2 | 0.47 | 3.7 |
| 1,2-Dichloroethane | 0.15 | Not Detected | 0.59 | Not Detected |
| Heptane | 0.15 | 31 | 0.60 | 130 |
| Trichloroethene | 0.15 | 0.18 | 0.78 | 0.98 |
| 1,2-Dichloropropane | 0.15 | Not Detected | 0.67 | Not Detected |
| 1,4-Dioxane | 0.15 | Not Detected | 0.53 | Not Detected |
| Bromodichloromethane | 0.15 | Not Detected | 0.98 | Not Detected |
| cis-1,3-Dichloropropene | 0.15 | Not Detected | 0.66 | Not Detected |
| 4-Methyl-2-pentanone | 0.15 | Not Detected | 0.60 | Not Detected |
| Toluene | 0.15 | 10 | 0.55 | 38 |
| trans-1,3-Dichloropropene | 0.15 | Not Detected | 0.66 | Not Detected |
| 1,1,2-Trichloroethane | 0.15 | Not Detected | 0.80 | Not Detected |
| Tetrachloroethene | 0.15 | Not Detected | 0.99 | Not Detected |

Air TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: SS-3-022707**

**Lab ID#: 0703060A-03A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **y031822** | **Date of Collection: 2/27/07** | |
| **Dil. Factor:** | **1.46** | **Date of Analysis: 3/19/07 04:20 AM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| 2-Hexanone | 0.73 | Not Detected | 3.0 | Not Detected |
| Dibromochloromethane | 0.15 | Not Detected | 1.2 | Not Detected |
| 1,2-Dibromoethane (EDB) | 0.15 | Not Detected | 1.1 | Not Detected |
| Chlorobenzene | 0.15 | Not Detected | 0.67 | Not Detected |
| Ethyl Benzene | 0.15 | 1.2 | 0.63 | 5.0 |
| m,p-Xylene | 0.15 | 4.8 | 0.63 | 21 |
| o-Xylene | 0.15 | 1.7 | 0.63 | 7.4 |
| Styrene | 0.15 | 0.19 | 0.62 | 0.81 |
| Bromoform | 0.15 | Not Detected | 1.5 | Not Detected |
| Cumene | 0.15 | Not Detected | 0.72 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 0.15 | Not Detected | 1.0 | Not Detected |
| Propylbenzene | 0.15 | 0.30 | 0.72 | 1.5 |
| 4-Ethyltoluene | 0.15 | 1.3 | 0.72 | 6.6 |
| 1,3,5-Trimethylbenzene | 0.15 | 0.41 | 0.72 | 2.0 |
| 1,2,4-Trimethylbenzene | 0.15 | 1.8 | 0.72 | 8.6 |
| 1,3-Dichlorobenzene | 0.15 | Not Detected | 0.88 | Not Detected |
| 1,4-Dichlorobenzene | 0.15 | 3.6 | 0.88 | 21 |
| alpha-Chlorotoluene | 0.15 | Not Detected | 0.76 | Not Detected |
| 1,2-Dichlorobenzene | 0.15 | Not Detected | 0.88 | Not Detected |
| 1,2,4-Trichlorobenzene | 0.73 | Not Detected | 5.4 | Not Detected |
| Hexachlorobutadiene | 0.73 | Not Detected | 7.8 | Not Detected |

J = Estimated value.

**Container Type: 6 Liter Summa Special**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 93 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 99 | 70-130 |

0077

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: SS-4-022707**

**Lab ID#: 0703060A-04A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **y031823** | **Date of Collection:** | **2/27/07** |
| **Dil. Factor:** | **1.52** | **Date of Analysis:** | **3/19/07 04:52 AM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Freon 12 | 0.15 | 0.45 | 0.75 | 2.2 |
| Freon 114 | 0.15 | Not Detected | 1.1 | Not Detected |
| Chloromethane | 0.15 | Not Detected | 0.31 | Not Detected |
| Vinyl Chloride | 0.15 | Not Detected | 0.39 | Not Detected |
| 1,3-Butadiene | 0.15 | Not Detected | 0.34 | Not Detected |
| Bromomethane | 0.15 | Not Detected | 0.59 | Not Detected |
| Chloroethane | 0.15 | 0.15 | 0.40 | 0.40 |
| Freon 11 | 0.15 | 0.32 | 0.85 | 1.8 |
| Ethanol | 0.76 | 29 | 1.4 | 54 |
| Freon 113 | 0.15 | Not Detected | 1.2 | Not Detected |
| 1,1-Dichloroethene | 0.15 | Not Detected | 0.60 | Not Detected |
| Acetone | 0.76 | 40 | 1.8 | 94 |
| 2-Propanol | 0.76 | 1.4 | 1.9 | 3.4 |
| Carbon Disulfide | 0.76 | Not Detected | 2.4 | Not Detected |
| Methylene Chloride | 0.30 | 2.9 | 1.0 | 10 |
| Methyl tert-butyl ether | 0.15 | Not Detected | 0.55 | Not Detected |
| trans-1,2-Dichloroethene | 0.15 | Not Detected | 0.60 | Not Detected |
| Hexane | 0.15 | 1.7 | 0.54 | 6.0 |
| 1,1-Dichloroethane | 0.15 | Not Detected | 0.62 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 0.15 | 4.4 | 0.45 | 13 |
| cis-1,2-Dichloroethene | 0.15 | Not Detected | 0.60 | Not Detected |
| Tetrahydrofuran | 0.76 | Not Detected | 2.2 | Not Detected |
| Chloroform | 0.15 | 5.4 | 0.74 | 26 |
| 1,1,1-Trichloroethane | 0.15 | 0.53 | 0.83 | 2.9 |
| Cyclohexane | 0.15 | 4.4 | 0.52 | 15 |
| Carbon Tetrachloride | 0.15 | Not Detected | 0.96 | Not Detected |
| Benzene | 0.15 | 0.88 | 0.48 | 2.8 |
| 1,2-Dichloroethane | 0.15 | Not Detected | 0.62 | Not Detected |
| Heptane | 0.15 | 28 | 0.62 | 120 |
| Trichloroethene | 0.15 | 0.27 | 0.82 | 1.4 |
| 1,2-Dichloropropane | 0.15 | Not Detected | 0.70 | Not Detected |
| 1,4-Dioxane | 0.15 | Not Detected | 0.55 | Not Detected |
| Bromodichloromethane | 0.15 | 0.38 | 1.0 | 2.6 |
| cis-1,3-Dichloropropene | 0.15 | Not Detected | 0.69 | Not Detected |
| 4-Methyl-2-pentanone | 0.15 | 0.25 | 0.62 | 1.0 |
| Toluene | 0.15 | 11 | 0.57 | 40 |
| trans-1,3-Dichloropropene | 0.15 | Not Detected | 0.69 | Not Detected |
| 1,1,2-Trichloroethane | 0.15 | Not Detected | 0.83 | Not Detected |
| Tetrachloroethene | 0.15 | 1.9 | 1.0 | 13 |

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: SS-4-022707**

**Lab ID#: 0703060A-04A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | y031823 | **Date of Collection:** | 2/27/07 |
| **Dil. Factor:** | 1.52 | **Date of Analysis:** | 3/19/07 04:52 AM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| 2-Hexanone | 0.76 | Not Detected | 3.1 | Not Detected |
| Dibromochloromethane | 0.15 | Not Detected | 1.3 | Not Detected |
| 1,2-Dibromoethane (EDB) | 0.15 | Not Detected | 1.2 | Not Detected |
| Chlorobenzene | 0.15 | Not Detected | 0.70 | Not Detected |
| Ethyl Benzene | 0.15 | 1.8 | 0.66 | 8.0 |
| m,p-Xylene | 0.15 | 7.3 | 0.66 | 32 |
| o-Xylene | 0.15 | 2.7 | 0.66 | 12 |
| Styrene | 0.15 | 0.21 | 0.65 | 0.90 |
| Bromoform | 0.15 | Not Detected | 1.6 | Not Detected |
| Cumene | 0.15 | 0.14 J | 0.75 | 0.72 J |
| 1,1,2,2-Tetrachloroethane | 0.15 | Not Detected | 1.0 | Not Detected |
| Propylbenzene | 0.15 | 0.52 | 0.75 | 2.6 |
| 4-Ethyltoluene | 0.15 | 2.3 | 0.75 | 12 |
| 1,3,5-Trimethylbenzene | 0.15 | 0.70 | 0.75 | 3.5 |
| 1,2,4-Trimethylbenzene | 0.15 | 3.0 | 0.75 | 15 |
| 1,3-Dichlorobenzene | 0.15 | Not Detected | 0.91 | Not Detected |
| 1,4-Dichlorobenzene | 0.15 | 6.0 | 0.91 | 36 |
| alpha-Chlorotoluene | 0.15 | Not Detected | 0.79 | Not Detected |
| 1,2-Dichlorobenzene | 0.15 | Not Detected | 0.91 | Not Detected |
| 1,2,4-Trichlorobenzene | 0.76 | Not Detected | 5.6 | Not Detected |
| Hexachlorobutadiene | 0.76 | Not Detected | 8.1 | Not Detected |

J = Estimated value.

**Container Type: 6 Liter Summa Special**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 95 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 100 | 70-130 |



0110

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: SS-5-022707**

**Lab ID#: 0703060A-05A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | y031907 | **Date of Collection:** | 2/27/07 |
| **Dil. Factor:** | 1.55 | **Date of Analysis:** | 3/19/07 03:07 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Freon 12 | 0.16 | 0.50 | 0.77 | 2.5 |
| Freon 114 | 0.16 | Not Detected | 1.1 | Not Detected |
| Chloromethane | 0.16 | 0.21 | 0.32 | 0.42 |
| Vinyl Chloride | 0.16 | Not Detected | 0.40 | Not Detected |
| 1,3-Butadiene | 0.16 | 0.17 | 0.34 | 0.38 |
| Bromomethane | 0.16 | Not Detected | 0.60 | Not Detected |
| Chloroethane | 0.16 | Not Detected | 0.41 | Not Detected |
| Freon 11 | 0.16 | 0.25 | 0.87 | 1.4 |
| Ethanol | 0.78 | 4.0 | 1.5 | 7.5 |
| Freon 113 | 0.16 | Not Detected | 1.2 | Not Detected |
| 1,1-Dichloroethene | 0.16 | Not Detected | 0.61 | Not Detected |
| Acetone | 0.78 | 23 | 1.8 | 55 |
| 2-Propanol | 0.78 | Not Detected | 1.9 | Not Detected |
| Carbon Disulfide | 0.78 | Not Detected | 2.4 | Not Detected |
| Methylene Chloride | 0.31 | 3.2 | 1.1 | 11 |
| Methyl tert-butyl ether | 0.16 | Not Detected | 0.56 | Not Detected |
| trans-1,2-Dichloroethene | 0.16 | Not Detected | 0.61 | Not Detected |
| Hexane | 0.16 | 4.7 | 0.55 | 16 |
| 1,1-Dichloroethane | 0.16 | Not Detected | 0.63 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 0.16 | 2.3 | 0.46 | 6.7 |
| cis-1,2-Dichloroethene | 0.16 | Not Detected | 0.61 | Not Detected |
| Tetrahydrofuran | 0.78 | Not Detected | 2.3 | Not Detected |
| Chloroform | 0.16 | Not Detected | 0.76 | Not Detected |
| 1,1,1-Trichloroethane | 0.16 | Not Detected | 0.84 | Not Detected |
| Cyclohexane | 0.16 | 17 | 0.53 | 58 |
| Carbon Tetrachloride | 0.16 | Not Detected | 0.98 | Not Detected |
| Benzene | 0.16 | 1.5 | 0.50 | 4.7 |
| 1,2-Dichloroethane | 0.16 | Not Detected | 0.63 | Not Detected |
| Heptane | 0.16 | 190 E | 0.64 | 780 E |
| Trichloroethene | 0.16 | 0.37 | 0.83 | 2.0 |
| 1,2-Dichloropropane | 0.16 | Not Detected | 0.72 | Not Detected |
| 1,4-Dioxane | 0.16 | Not Detected | 0.56 | Not Detected |
| Bromodichloromethane | 0.16 | Not Detected | 1.0 | Not Detected |
| cis-1,3-Dichloropropene | 0.16 | Not Detected | 0.70 | Not Detected |
| 4-Methyl-2-pentanone | 0.16 | 0.28 | 0.63 | 1.1 |
| Toluene | 0.16 | 34 | 0.58 | 130 |
| trans-1,3-Dichloropropene | 0.16 | Not Detected | 0.70 | Not Detected |
| 1,1,2-Trichloroethane | 0.16 | Not Detected | 0.84 | Not Detected |
| Tetrachloroethene | 0.16 | 0.15 J | 1.0 | 1.0 |



0149

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: SS-5-022707**

**Lab ID#: 0703060A-05A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **y031907** | **Date of Collection: 2/27/07** | |
| **Dil. Factor:** | **1.55** | **Date of Analysis: 3/19/07 03:07 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| 2-Hexanone | 0.78 | Not Detected | 3.2 | Not Detected |
| Dibromochloromethane | 0.16 | Not Detected | 1.3 | Not Detected |
| 1,2-Dibromoethane (EDB) | 0.16 | Not Detected | 1.2 | Not Detected |
| Chlorobenzene | 0.16 | Not Detected | 0.71 | Not Detected |
| Ethyl Benzene | 0.16 | 2.4 | 0.67 | 10 |
| m,p-Xylene | 0.16 | 9.6 | 0.67 | 42 |
| o-Xylene | 0.16 | 3.7 | 0.67 | 16 |
| Styrene | 0.16 | 0.44 | 0.66 | 1.9 |
| Bromoform | 0.16 | Not Detected | 1.6 | Not Detected |
| Cumene | 0.16 | Not Detected | 0.76 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 0.16 | Not Detected | 1.1 | Not Detected |
| Propylbenzene | 0.16 | 0.63 | 0.76 | 3.1 |
| 4-Ethyltoluene | 0.16 | 3.0 | 0.76 | 15 |
| 1,3,5-Trimethylbenzene | 0.16 | 0.95 | 0.76 | 4.7 |
| 1,2,4-Trimethylbenzene | 0.16 | 3.9 | 0.76 | 19 |
| 1,3-Dichlorobenzene | 0.16 | Not Detected | 0.93 | Not Detected |
| 1,4-Dichlorobenzene | 0.16 | 7.8 | 0.93 | 47 |
| alpha-Chlorotoluene | 0.16 | Not Detected | 0.80 | Not Detected |
| 1,2-Dichlorobenzene | 0.16 | Not Detected | 0.93 | Not Detected |
| 1,2,4-Trichlorobenzene | 0.78 | Not Detected | 5.8 | Not Detected |
| Hexachlorobutadiene | 0.78 | Not Detected | 8.3 | Not Detected |

E = Exceeds instrument calibration range.
J = Estimated value.
**Container Type: 6 Liter Summa Special**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 103 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 97 | 70-130 |



0150

**SUMMARY OF THE ANALYTICAL DATA USABILITY**
**37211 Pizza Hut Site Characterization**

**Air Volatile Organic Analyses**
**Samples Collected February 27, 2007**
**Samples Received March 2, 2007**
**Sample Delivery Group: 0703060B**
**Laboratory Reference Numbers:**

| | |
|---|---|
| B-1-022707 | 0703060-06A |
| B-1-022707 | 0703060-06B |
| B-2-022707 | 0703060-07A |
| B-2-022707 | 0703060-07B |
| B-4-022707 | 0703060-08A |
| B-4-022707 | 0703060-08B |
| B-1-022707 | 0703060-09A |
| B-1-022707 | 0703060-09B |
| Amb -E-022707 | 0703060-10A |
| Amb -E-022707 | 0703060-10B |
| Amb -W-022707 | 0703060-11A |
| Amb -W-022707 | 0703060-11B |
| FF-1-022707 | 0703060-12A |
| FF-1-022707 | 0703060-12B |
| FF-2-022707 | 0703060-13A |
| FF-2-022707 | 0703060-13B |
| FF-3-022707 | 0703060-14A |
| FF-3-022707 | 0703060-14B |
| FF-3-022707 Dup | 0703060-14A Dup |
| FF-3-022707 Dup | 0703060-14B Dup |
| FF-4-022707 | 0703060-15A |
| FF-4-022707 | 0703060-15B |

Air samples were validated for analyses of volatile organics by the US EPA Region II checklist. Data were reviewed for usability according to the following criteria:

- Data Completeness
* - GC/MS Tuning
* - Holding Times
* - Calibrations
* - Laboratory Blanks
- Field Blank
- Trip Blanks
- Storage Blank
* - Surrogate Compound Recoveries
* - Internal Standard Recoveries
- Matrix Spike / Matrix Spike Duplicate
* - Matrix Duplicate
* - Laboratory Control Sample
- Instrument Detection Limits
* - Compound Identification
- Compound Quantitation

* - Indicates that all criteria were met for this parameter.

## DATA USABILITY SUMMARY

The laboratory's case narrative notes:

> *The results for each sample in this report were acquired from two separate data files originating from the sample analytical run. The two data files have the same base name and area differentiated with a "sin" extension on the SIM data file.*

The laboratory did not use the standard NYS DEC ASP reporting format. All of the required documentation was included in the data package.

The concentration of ethanol was above the linear range in samples B-4-022707 (0703060-08A) ,3,400 E ppbv / 6500E uG/m3, and sample FF-4-022707 (C0703036-15), 3,500 E ppbv / 6,600E uG/m3, were above the linear range of the analysis. The samples were not reanalyzed at a dilution. The data for heptane in these samples is highly estimated and was flagged with the "J" qualifier.

The reported relative response factors of some of the compounds quantitated against the later internal standards were slightly different than those calculated during the data validation in the initial and continuing calibrations. The differences were not large enough to affect the end use of the data.

### Holding Times

All samples were analyzed within 30 days of the date of collection.

### Surrogate Recoveries

All recoveries were reported as within the 70% - 130% quality assurance limits

### Tunes

No other problems were detected with the tunes associated with the samples of this delivery group.

### Calibrations

The reported relative response factors of some of the compounds quantitated against the later internal standards were slightly different than those calculated during the data validation in the initial and continuing calibrations. The differences were not large enough to affect the end use of the data.

No other problems were found with the initial or continuing calibrations. All RSDs and percent differences were less than 30%.

All RRFs of the target compounds were greater than 0.05.

**Matrix Spike / Matrix Spike Duplicate**

A matrix spike and matrix spike duplicate were not analyzed with this sample delivery group.

**Matrix Duplicate**

Sample FF-3-022707 (0703060-14A) was used as the matrix duplicate. All recoveries which could be accurately calculated were less than 20%.

**Laboratory Control Sample**

All recoveries were within the laboratory's reported quality control limits.

**Field Duplicate**

A field duplicate was not analyzed with this sample delivery group.

**Method Blanks**

None of the target compounds were detected in any of the method blanks at concentrations above the PQLs.

**Holding Blank**

A holding blank was not analyzed with this sample delivery group.

**Internal Standard Areas and Retention Times**

All of the internal standard recoveries were within the 60% - 140% quality control limits .

**Instrument Detection Limits**

Instrument detection limits were not included the analytical package.

**Sample Results**

The concentration of ethanol was above the linear range in samples B-4-022707 (0703060-08A) ,3,400 E ppbv / 6500E uG/m3, and sample FF-4-022707 (C0703036-15), 3,500 E ppbv / 6,600E uG/m3, were above the linear range of the analysis. The samples were not reanalyzed at a dilution. The data for heptane in these samples is highly estimated and was flagged with the "J" qualifier.

No other problems were found with the reported results of any of the samples of this delivery group.

**ANALYTICAL DATA VALIDATION WORKSHEETS**
**37211 Pizza Hut Site Characterization**

**Air Volatile Organic Analyses**
**Samples Collected February 27, 2007**
**Samples Received March 2, 2007**
**Sample Delivery Group: 0703060B**
**Laboratory Reference Numbers:**

| | |
|---|---|
| B-1-022707 | 0703060-06A |
| B-1-022707 | 0703060-06B |
| B-2-022707 | 0703060-07A |
| B-2-022707 | 0703060-07B |
| B-4-022707 | 0703060-08A |
| B-4-022707 | 0703060-08B |
| B-1-022707 | 0703060-09A |
| B-1-022707 | 0703060-09B |
| Amb -E-022707 | 0703060-10A |
| Amb -E-022707 | 0703060-10B |
| Amb -W-022707 | 0703060-11A |
| Amb -W-022707 | 0703060-11B |
| FF-1-022707 | 0703060-12A |
| FF-1-022707 | 0703060-12B |
| FF-2-022707 | 0703060-13A |
| FF-2-022707 | 0703060-13B |
| FF-3-022707 | 0703060-14A |
| FF-3-022707 | 0703060-14B |
| FF-3-022707 Dup | 0703060-14A Dup |
| FF-3-022707 Dup | 0703060-14B Dup |
| FF-4-022707 | 0703060-15A |
| FF-4-022707 | 0703060-15B |

## INITIAL CALIBRATION

**Instrument ID:** msdf.i
**Level:** Low
**Tune File ID:** y301605.d **Acceptable:** Yes **Time Requirements Met:** Yes
**Initial Calibration File ID:** y031613.d **Date:** 3/16/2007 **Page:** 399
**Associated Samples:**

| | QC %RSD | STD %RSD | QC RRF | STD RRF | | QC %RSD | STD %RSD | QC RRF | STD RRF |
|---|---|---|---|---|---|---|---|---|---|
| Freon 11 | 30% | | >0.05 | | 1,3,5-Trimethylbenzene | 30% | | >0.05 | |
| Freon 114 | 30% | | >0.05 | | 1,2,4-Trimethylbenzene | 30% | | >0.05 | |
| Chloromethane | 30% | | >0.05 | | 1,3-Dichlorobenzene | 30% | | >0.05 | |
| Vinyl Chloride | 30% | | >0.05 | | 1,4-Dichlorobenzene | 30% | | >0.05 | |
| Bromomethane | 30% | | >0.05 | | alpha-Chlorotoluene | 30% | | >0.05 | |
| Chloroethane | 30% | | >0.05 | | 1,2-Dichlorobenzene | 30% | | >0.05 | |
| Freon 11 | 30% | | >0.05 | | 1,2,4-Trichlorobenzene | 30% | | >0.05 | |
| 1,1-Dichloroethene | 30% | | >0.05 | | Hexaclhorobutadiene | 30% | | >0.05 | |
| Freon 113 | 30% | | >0.05 | | Propylene | 30% | | >0.05 | |
| Methylene Chloride | 30% | | >0.05 | | 1,3-Butadiene | 30% | | >0.05 | |
| 1,1-Dichloroethane | 30% | | >0.05 | | Acetone | 30% | | >0.05 | |
| cis-1,2-Dichloroethene | 30% | | >0.05 | | Carbon Disulfide | 30% | | >0.05 | |
| Chloroform | 30% | | >0.05 | | 2-Propanol | 30% | | >0.05 | |
| 1,1,1-Trichloroethane | 30% | | >0.05 | | trans-1,2-Dichloroethene | 30% | | >0.05 | |
| Carbon Tetrachloride | 30% | | >0.05 | | Vinyl Acetate | 30% | | >0.05 | |
| Benzene | 30% | | >0.05 | | 2-Butanone | 30% | | >0.05 | |
| 1,2-Dichloroethane | 30% | | >0.05 | | Hexane | 30% | | >0.05 | |
| Trichloroethene | 30% | | >0.05 | | Tetrahydrofuran | 30% | | >0.05 | |
| 1,2-Dichloropropane | 30% | | >0.05 | | Cyclohexane | 30% | | >0.05 | |
| cis-1,3-Dichloropropene | 30% | | >0.05 | | 1,4-Dioxane | 30% | | >0.05 | |
| Toluene | 30% | | >0.05 | | Bromodichloromethane | 30% | | >0.05 | |
| trans-1,3-Dichloropropene | 30% | | >0.05 | | 4-Methyl-2-pentanone | 30% | | >0.05 | |
| 1,1,2-Trichloroethene | 30% | | >0.05 | | 2-Hexanone | 30% | | >0.05 | |
| 1,2-Dibromoethane (EDB) | 30% | | >0.05 | | Dibromochloromethane | 30% | | >0.05 | |
| Chlorobenzene | 30% | | >0.05 | | Bromoform | 30% | | >0.05 | |
| Ethylbenzene | 30% | | >0.05 | | 4-Ethyltoluene | 30% | | >0.05 | |
| m.p-Xylene | 30% | | >0.05 | | Ethanol | 30% | | >0.05 | |
| o-Xylene | 30% | | >0.05 | | Methyl tert-Butyl Ether | 30% | | >0.05 | |
| Styrene | 30% | | >0.05 | | Heptane | 30% | | >0.05 | |
| 1,1,2,2-Tetrachloroethane | 30% | | >0.05 | | Naphthalene | 30% | | >0.05 | |

All TCL Compounds %RSD < QC Limit: Yes
TCL Compounds %RSD between 30% and 60% (J - qualify) N/A
TCL Compounds %RSD between 60% and 90% (J - qualify) N/A
TCL Compounds %RSD > 90% (R - reject undetected / J - detected) N/A

**CALIBRATION VERIFICATION:**

| **Compound** | 1,1-Dichloroethene | | | | Trichloroethene | | | |
|---|---|---|---|---|---|---|---|---|
| | **Area x** | **Area IS** | **calc rrf** | **Rprtd rrf** | **Area x** | **Area IS** | **calc rrf** | **Rprtd rrf** |
| **PPB** | | | | | | | | |
| **0.1** | 2,075 | 299,733 | 0.692 | 0.692 | 5,798 | 1,030,526 | 0.563 | 0.563 |
| **0.5** | 8,576 | 302,428 | 0.567 | 0.567 | 24,645 | 1,049,647 | 0.470 | 0.470 |
| **2** | 33,821 | 292,094 | 0.579 | 0.579 | 97,572 | 1,046,884 | 0.466 | 0.476 |
| **10** | 198,241 | 311,000 | 0.637 | 0.637 | 532,001 | 1,086,829 | 0.489 | 0.498 |
| **20** | 353,566 | 309,674 | 0.571 | 0.571 | 1,037,230 | 1,051,349 | 0.493 | 0.496 |
| **40** | 706,989 | 304,941 | 0.580 | 0.580 | 2,048,009 | 1,053,231 | 0.486 | 0.487 |
| **Average** | | | 0.604 | 0.604 | | | 0.495 | 0.498 |
| | | | **Calc** | **Reported** | | | **Calc** | **Reported** |
| **%RSD** | | | 8.30 | 8.30% | | | 7.10 | 6.73% |

**VOLATILE ORGANICS**
**CONTINUING CALIBRATION**

**Instrument ID:** msdf.i
**Level:** Low
**Tune File ID:** y031801.d **Acceptable:** Yes **Time Requirements Met:** Yes
**Calibration File ID:** y031802.d **Date:** 3/17/2007 **Page:** 658
**Initial Calibration File ID:** y031613.d **Date:** 3/16/2007 **Page:** 399
**Associated Samples:** -06, -07, -09, -10, -11, -13, -14

| | QC %D | STD %D | QC RRF | STD RRF | | QC %D | STD %D | QC RRF | STD RRF |
|---|---|---|---|---|---|---|---|---|---|
| Freon 11 | <30% | | >0.05 | | 1,3,5-Trimethylbenzene | <30% | | >0.05 | |
| Freon 114 | <30% | | >0.05 | | 1,2,4-Trimethylbenzene | <30% | | >0.05 | |
| Chloromethane | <30% | | >0.05 | | 1,3-Dichlorobenzene | <30% | | >0.05 | |
| Vinyl Chloride | <30% | | >0.05 | | 1,4-Dichlorobenzene | <30% | | >0.05 | |
| Bromomethane | <30% | | >0.05 | | alpha-Chlorotoluene | <30% | | >0.05 | |
| Chloroethane | <30% | | >0.05 | | 1,2-Dichlorobenzene | <30% | | >0.05 | |
| Freon 11 | <30% | | >0.05 | | 1,2,4-Trichlorobenzene | <30% | | >0.05 | |
| 1,1-Dichloroethene | <30% | | >0.05 | | Hexaclhorobutadiene | <30% | | >0.05 | |
| Freon 113 | <30% | | >0.05 | | Propylene | <30% | | >0.05 | |
| Methylene Chloride | <30% | | >0.05 | | 1,3-Butadiene | <30% | | >0.05 | |
| 1,1-Dichloroethane | <30% | | >0.05 | | Acetone | <30% | | >0.05 | |
| cis-1,2-Dichloroethene | <30% | | >0.05 | | Carbon Disulfide | <30% | | >0.05 | |
| Chloroform | <30% | | >0.05 | | 2-Propanol | <30% | | >0.05 | |
| 1,1,1-Trichloroethane | <30% | | >0.05 | | trans-1,2-Dichloroethene | <30% | | >0.05 | |
| Carbon Tetrachloride | <30% | | >0.05 | | Vinyl Acetate | <30% | | >0.05 | |
| Benzene | <30% | | >0.05 | | 2-Butanone | <30% | | >0.05 | |
| 1,2-Dichloroethane | <30% | | >0.05 | | Hexane | <30% | | >0.05 | |
| Trichloroethene | <30% | | >0.05 | | Tetrahydrofuran | <30% | | >0.05 | |
| 1,2-Dichloropropane | <30% | | >0.05 | | Cyclohexane | <30% | | >0.05 | |
| cis-1,3-Dichloropropene | <30% | | >0.05 | | 1,4-Dioxane | <30% | | >0.05 | |
| Toluene | <30% | | >0.05 | | Bromodichloromethane | <30% | | >0.05 | |
| trans-1,3-Dichloropropene | <30% | | >0.05 | | 4-Methyl-2-pentanone | <30% | | >0.05 | |
| 1,1,2-Trichloroethene | <30% | | >0.05 | | 2-Hexanone | <30% | | >0.05 | |
| 1,2-Dibromoethane (EDB) | <30% | | >0.05 | | Dibromochloromethane | <30% | | >0.05 | |
| Chlorobenzene | <30% | | >0.05 | | Bromoform | <30% | | >0.05 | |
| Ethylbenzene | <30% | | >0.05 | | 4-Ethyltoluene | <30% | | >0.05 | |
| m.p-Xylene | <30% | | >0.05 | | Ethanol | <30% | | >0.05 | |
| o-Xylene | <30% | | >0.05 | | Methyl tert-Butyl Ether | <30% | | >0.05 | |
| Styrene | <30% | | >0.05 | | Heptane | <30% | | >0.05 | |
| 1,1,2,2-Tetrachloroethane | <30% | | >0.05 | | Naphthalene | <30% | | >0.05 | |

| | QC %D | STD %D | QC RRF | STD RRF |
|---|---|---|---|---|
| Surrogates: | | | | |
| Toluene-d8 | <30% | | >0.050 | |
| Bromofluorobenzene * | <30% | | >0.050 | |
| 1,2-Dichloroethane-d4 | <30% | | >0.050 | |

All TCL Compounds Average RRF > 0.050: yes

All TCL Compounds %D < QC Limit: Yes
TCL Compounds %D between 30% and 60% (J - qualify) N/A
TCL Compounds %D between 60% and 90% (J - qualify) N/A
TCL Compounds %D > 90% (R - reject undetected / J - detected) N/A

**CALIBRATION VERIFICATION:**

| **Compound** | Hexane | | | | Styrene | | | |
|---|---|---|---|---|---|---|---|---|
| | **Area x** | **Area IS** | **calc rrf** | **Rprtd rrf** | **Area x** | **Area IS** | **calc rrf** | **Rprtd rrf** |
| **PPB** | | | | | | | | |
| **5** | 354,843 | 310,813 | 2.283 | 2.283 | 722,286 | 1,046,603 | 1.380 | 1.380 |
| **% D** | | **Avg RRF** | **% D Calc** | **% D Reported** | | **Avg RRF** | **% D Calc** | **% D Reported** |
| | | 2.27932 | 0.18 | 0.175 | | 1.34943 | 2.28 | 2.28 |

**VOLATILE ORGANICS**
**CONTINUING CALIBRATION**

**Instrument ID:** msdf.i
**Level:** Low

| | | | | | |
|---|---|---|---|---|---|
| **Tune File ID:** | y031801.d | **Acceptable:** | Yes | **Time Requirements Met:** | Yes |
| **Calibration File ID:** | y031802.d | **Date:** | 3/18/2007 | **Page:** | 678 |
| **Initial Calibration File ID:** | y031613.d | **Date:** | 3/16/2007 | **Page:** | 399 |
| **Associated Samples:** | -08, -12, -15 | | | | |

| | QC %D | STD %D | QC RRF | STD RRF | | QC %D | STD %D | QC RRF | STD RRF |
|---|---|---|---|---|---|---|---|---|---|
| Freon 11 | <30% | | >0.05 | | 1,3,5-Trimethylbenzene | <30% | | >0.05 | |
| Freon 114 | <30% | | >0.05 | | 1,2,4-Trimethylbenzene | <30% | | >0.05 | |
| Chloromethane | <30% | | >0.05 | | 1,3-Dichlorobenzene | <30% | | >0.05 | |
| Vinyl Chloride | <30% | | >0.05 | | 1,4-Dichlorobenzene | <30% | | >0.05 | |
| Bromomethane | <30% | | >0.05 | | alpha-Chlorotoluene | <30% | | >0.05 | |
| Chloroethane | <30% | | >0.05 | | 1,2-Dichlorobenzene | <30% | | >0.05 | |
| Freon 11 | <30% | | >0.05 | | 1,2,4-Trichlorobenzene | <30% | | >0.05 | |
| 1,1-Dichloroethene | <30% | | >0.05 | | Hexaclhorobutadiene | <30% | | >0.05 | |
| Freon 113 | <30% | | >0.05 | | Propylene | <30% | | >0.05 | |
| Methylene Chloride | <30% | | >0.05 | | 1,3-Butadiene | <30% | | >0.05 | |
| 1,1-Dichloroethane | <30% | | >0.05 | | Acetone | <30% | | >0.05 | |
| cis-1,2-Dichloroethene | <30% | | >0.05 | | Carbon Disulfide | <30% | | >0.05 | |
| Chloroform | <30% | | >0.05 | | 2-Propanol | <30% | | >0.05 | |
| 1,1,1-Trichloroethane | <30% | | >0.05 | | trans-1,2-Dichloroethene | <30% | | >0.05 | |
| Carbon Tetrachloride | <30% | | >0.05 | | Vinyl Acetate | <30% | | >0.05 | |
| Benzene | <30% | | >0.05 | | 2-Butanone | <30% | | >0.05 | |
| 1,2-Dichloroethane | <30% | | >0.05 | | Hexane | <30% | | >0.05 | |
| Trichloroethene | <30% | | >0.05 | | Tetrahydrofuran | <30% | | >0.05 | |
| 1,2-Dichloropropane | <30% | | >0.05 | | Cyclohexane | <30% | | >0.05 | |
| cis-1,3-Dichloropropene | <30% | | >0.05 | | 1,4-Dioxane | <30% | | >0.05 | |
| Toluene | <30% | | >0.05 | | Bromodichloromethane | <30% | | >0.05 | |
| trans-1,3-Dichloropropene | <30% | | >0.05 | | 4-Methyl-2-pentanone | <30% | | >0.05 | |
| 1,1,2-Trichloroethene | <30% | | >0.05 | | 2-Hexanone | <30% | | >0.05 | |
| 1,2-Dibromoethane (EDB) | <30% | | >0.05 | | Dibromochloromethane | <30% | | >0.05 | |
| Chlorobenzene | <30% | | >0.05 | | Bromoform | <30% | | >0.05 | |
| Ethylbenzene | <30% | | >0.05 | | 4-Ethyltoluene | <30% | | >0.05 | |
| m.p-Xylene | <30% | | >0.05 | | Ethanol | <30% | | >0.05 | |
| o-Xylene | <30% | | >0.05 | | Methyl tert-Butyl Ether | <30% | | >0.05 | |
| Styrene | <30% | | >0.05 | | Heptane | <30% | | >0.05 | |
| 1,1,2,2-Tetrachloroethane | <30% | | >0.05 | | Naphthalene | <30% | | >0.05 | |

| | QC %D | STD %D | QC RRF | STD RRF |
|---|---|---|---|---|
| Surrogates: | | | | |
| Toluene-d8 | <30% | | >0.050 | |
| Bromofluorobenzene * | <30% | | >0.050 | |
| 1,2-Dichloroethane-d4 | <30% | | >0.050 | |

All TCL Compounds Average RRF > 0.050: yes

All TCL Compounds %D < QC Limit: Yes

| | |
|---|---|
| TCL Compounds %D between 30% and 60% (J - qualify) | N/A |
| TCL Compounds %D between 60% and 90% (J - qualify) | N/A |
| TCL Compounds %D > 90% (R - reject undetected / J - detected) | N/A |

**CALIBRATION VERIFICATION:**

| **Compound** | Benzene | | | | 1,2-Dichlorobenzene | | | |
|---|---|---|---|---|---|---|---|---|
| | **Area x** | **Area IS** | **calc rrf** | **Rprtd rrf** | **Area x** | **Area IS** | **calc rrf** | **Rprtd rrf** |
| **PPB** | | | | | | | | |
| **5** | 963,021 | 1,015,507 | 1.897 | 1.897 | 689,958 | 1,028,691 | 1.341 | 1.389 |
| **% D** | | **Avg RRF** | **% D** | **% D** | | **Avg RRF** | **% D** | **% D** |
| | | 1.83655 | **Calc** | **Reported** | | 1.38297 | **Calc** | **Reported** |
| | | | 3.27 | 3.27 | | | -3.00 | 0.44 |

## INITIAL CALIBRATION - LOW LEVEL

**Instrument ID:** **msdf.i**
**Level:** Low
**Tune File ID:** y301605.d **Acceptable:** Yes **Time Requirements Met:** Yes
**Initial Calibration File ID:** y031613.d **Date:** 3/16/2007 **Page:**
**Associated Samples:**

| | QC %RSD | STD %RSD | QC RRF | STD RRF | | QC %RSD | STD %RSD | QC RRF | STD RRF |
|---|---|---|---|---|---|---|---|---|---|
| Trichloroethene | <30 | | >0.010 | | Tetrachloroethylene | <30 | | >0.050 | |

| Surrogate: | QC %RSD | STD %RSD | QC RRF | STD RRF |
|---|---|---|---|---|
| 1-Bromo-4-Fluorobenzene | <30% | | >0.050 | |

All TCL Compounds Average RRF > 0.050: Yes
All TCL Compounds %D < QC Limit: Yes
TCL Compounds %D between 30% and 60% (J - qualify) N/A
TCL Compounds %D between 60% and 90% (J - qualify) N/A
TCL Compounds %D > 90% (R - reject undetected / J - detected) N/A

**CALIBRATION VERIFICATION:**

| **Compound** | Carbon Tetrachloride | | | | Trichloroethene | | | |
|---|---|---|---|---|---|---|---|---|
| **PPB** | | | | | | | | |
| **0.01** | | | #DIV/0! | NA | 623 | 1,091,740 | 0.571 | 0.57 |
| **0.02** | 1,669 | 247,414 | 3.373 | 3.373 | 1,170 | 1,084,019 | 0.540 | 0.64 |
| **0.05** | 4,082 | 242,186 | 3.371 | 3.371 | 3,000 | 1,045,748 | 0.574 | 0.574 |
| **0.10** | 8,371 | 259,912 | 3.221 | 3.220 | 6,018 | 1,101,714 | 0.546 | 0.546 |
| **0.50** | 38,764 | 261,950 | 2.960 | 2.960 | 26,969 | 1,109,259 | 0.486 | 0.486 |
| **2.00** | 162,857 | 246,965 | 3.297 | 3.297 | 107,091 | 1,089,727 | 0.491 | 0.491 |
| **10** | 935,302 | 271,526 | 3.445 | 3.445 | 578,831 | 1,128,965 | 0.513 | 0.513 |
| **20** | 1,876,165 | 256,220 | 3.661 | 3.661 | 1,127,136 | 1,121,700 | 0.502 | 0.502 |
| **Average** | | | 3.332 | 3.330 | | | 0.528 | 0.528 |
| | | | **Calc** | **Reported** | | | **Calc** | **Reported** |
| **%RSD** | | | 6.44% | 6.44% | | | 6.54% | 6.55% |

## VOLATILE ORGANICS
## CONTINUING CALIBRATION

**Instrument ID:** msdf.i
**Level:** Low
**Tune File ID:** y031801.d **Acceptable:** Yes **Time Requirements Met:** Yes
**Calibration File ID:** y031802.d **Date:** 3/17/2007 **Page:**
**Initial Calibration File ID:** y031613.d **Date:** 3/16/2007 **Page:** 671
**Associated Samples:** -06, -07, -09, -10, -11, -13, -14

**COMPOUND LIST**

| | QC %RSD | STD %RSD | QC RRF | STD RRF | | QC %RSD | STD %RSD | QC RRF | STD RRF |
|---|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | <30 | | >0.010 | | Trichloroethene | <30 | | >0.050 | |

| | QC %D | STD %D | QC RRF | STD RRF |
|---|---|---|---|---|
| Surrogate: | | | | |
| 1-Bromo-4-Fluorobenzene | <30% | | >0.050 | |

All TCL Compounds Average RRF > 0.050: Yes

All TCL Compounds %D < QC Limit: Yes
TCL Compounds %D between 25% and 50% (J - qualify) N/A
TCL Compounds %D between 50% and 90% (J - qualify) N/A
TCL Compounds %D > 90% (R - reject undetected / J - detected) N/A

**CALIBRATION VERIFICATION:**

| **Compound** Carbon Tetrachloride | Area x | Area IS | calc rrf | Rprtd rrf | Trichloroethene Area x | Area IS | calc rrf | Rprtd rrf |
|---|---|---|---|---|---|---|---|---|
| **PPB** | | | | | | | | |
| **5** | 470,334 | 267,562 | 3.516 | 3.516 | 289,872 | 1,119,616 | 0.518 | 0.518 |
| | | | | | | | | |
| **% D** | | **Avg RRF** | **% D** | **% D** | | **Avg RRF** | **% D** | **% D** |
| | | 3.33241 | **Calc** | **Reported** | | 0.528 | **Calc** | **Reported** |
| | | | 5.50 | 5.50 | | | -1.91 | 1.91 |

## VOLATILE ORGANICS
## CONTINUING CALIBRATION

**Instrument ID:** msdf.i
**Level:** Low

| | | | | | |
|---|---|---|---|---|---|
| **Tune File ID:** | y031801.d | **Acceptable:** | Yes | **Time Requirements Met:** | Yes |
| **Calibration File ID:** | y031802.d | **Date:** | 3/18/2007 | **Page:** | 693 |
| **Initial Calibration File ID:** | y031613.d | **Date:** | 3/16/2007 | **Page:** | 399 |
| **Associated Samples:** | -08, -12, -15 | | | | |

**COMPOUND LIST**

| | QC %RSD | STD %RSD | QC RRF | STD RRF | | QC %RSD | STD %RSD | QC RRF | STD RRF |
|---|---|---|---|---|---|---|---|---|---|
| Trichloroethene | <30 | | >0.010 | | Tetrachloroethylene | <30 | | >0.050 | |

| | QC %D | STD %D | QC RRF | STD RRF |
|---|---|---|---|---|
| Surrogate: | | | | |
| 1-Bromo-4-Fluorobenzene | <30% | | >0.050 | |

All TCL Compounds Average RRF > 0.050: Yes

All TCL Compounds %D < QC Limit: Yes

| | |
|---|---|
| TCL Compounds %D between 25% and 50% (J - qualify) | N/A |
| TCL Compounds %D between 50% and 90% (J - qualify) | N/A |
| TCL Compounds %D > 90% (R - reject undetected / J - detected) | N/A |

**CALIBRATION VERIFICATION:**

| **Compound** | Carbon Tetrachloride | | | | Trichloroethene | | | |
|---|---|---|---|---|---|---|---|---|
| | **Area x** | **Area IS** | **calc rrf** | **Rprtd rrf** | **Area x** | **Area IS** | **calc rrf** | **Rprtd rrf** |
| **PPB** | | | | | | | | |
| **5** | 452,096 | 244,866 | 3.693 | 3.693 | 276,274 | 1,087,190 | 0.508 | 0.508 |
| **% D** | | **Avg RRF** | **% D** | **% D** | | **Avg RRF** | **% D** | **% D** |
| | | 3.33241 | **Calc** | **Reported** | | 0.528 | **Calc** | **Reported** |
| | | | 10.81 | 10.81 | | | -3.72 | 3.72 |

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: B-1-022707**

**Lab ID#: 0703060B-06A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **y031707** | **Date of Collection:** | **2/27/07** |
| **Dil. Factor:** | **1.34** | **Date of Analysis:** | **3/17/07 02:53 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Freon 12 | 0.13 | 0.52 | 0.66 | 2.6 |
| Freon 114 | 0.13 | Not Detected | 0.94 | Not Detected |
| Chloromethane | 0.13 | 0.46 | 0.28 | 0.94 |
| Vinyl Chloride | 0.13 | Not Detected | 0.34 | Not Detected |
| 1,3-Butadiene | 0.13 | Not Detected | 0.30 | Not Detected |
| Bromomethane | 0.13 | Not Detected | 0.52 | Not Detected |
| Chloroethane | 0.13 | Not Detected | 0.35 | Not Detected |
| Freon 11 | 0.13 | 0.25 | 0.75 | 1.4 |
| Ethanol | 0.67 | 2.1 | 1.3 | 4.0 |
| Freon 113 | 0.13 | Not Detected | 1.0 | Not Detected |
| 1,1-Dichloroethene | 0.13 | Not Detected | 0.53 | Not Detected |
| Acetone | 0.67 | 1.6 | 1.6 | 3.9 |
| 2-Propanol | 0.67 | Not Detected | 1.6 | Not Detected |
| Carbon Disulfide | 0.67 | Not Detected | 2.1 | Not Detected |
| Methylene Chloride | 0.27 | 0.34 | 0.93 | 1.2 |
| Methyl tert-butyl ether | 0.13 | Not Detected | 0.48 | Not Detected |
| trans-1,2-Dichloroethene | 0.13 | Not Detected | 0.53 | Not Detected |
| Hexane | 0.13 | 0.37 | 0.47 | 1.3 |
| 1,1-Dichloroethane | 0.13 | Not Detected | 0.54 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 0.13 | 0.32 | 0.40 | 0.95 |
| cis-1,2-Dichloroethene | 0.13 | Not Detected | 0.53 | Not Detected |
| Tetrahydrofuran | 0.67 | Not Detected | 2.0 | Not Detected |
| Chloroform | 0.13 | Not Detected | 0.65 | Not Detected |
| 1,1,1-Trichloroethane | 0.13 | Not Detected | 0.73 | Not Detected |
| Cyclohexane | 0.13 | Not Detected | 0.46 | Not Detected |
| Benzene | 0.13 | 0.52 | 0.43 | 1.6 |
| 1,2-Dichloroethane | 0.13 | Not Detected | 0.54 | Not Detected |
| Heptane | 0.13 | 0.17 | 0.55 | 0.69 |
| 1,2-Dichloropropane | 0.13 | Not Detected | 0.62 | Not Detected |
| 1,4-Dioxane | 0.13 | Not Detected | 0.48 | Not Detected |
| Bromodichloromethane | 0.13 | Not Detected | 0.90 | Not Detected |
| cis-1,3-Dichloropropene | 0.13 | Not Detected | 0.61 | Not Detected |
| 4-Methyl-2-pentanone | 0.13 | Not Detected | 0.55 | Not Detected |
| Toluene | 0.13 | 1.1 | 0.50 | 4.2 |
| trans-1,3-Dichloropropene | 0.13 | Not Detected | 0.61 | Not Detected |
| 1,1,2-Trichloroethane | 0.13 | Not Detected | 0.73 | Not Detected |
| Tetrachloroethene | 0.13 | Not Detected | 0.91 | Not Detected |
| 2-Hexanone | 0.67 | Not Detected | 2.7 | Not Detected |
| Dibromochloromethane | 0.13 | Not Detected | 1.1 | Not Detected |

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: B-1-022707**

**Lab ID#: 0703060B-06A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **y031707** | **Date of Collection: 2/27/07** | |
| **Dil. Factor:** | **1.34** | **Date of Analysis: 3/17/07 02:53 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 0.13 | Not Detected | 1.0 | Not Detected |
| Chlorobenzene | 0.13 | Not Detected | 0.62 | Not Detected |
| Ethyl Benzene | 0.13 | 0.16 | 0.58 | 0.70 |
| m,p-Xylene | 0.13 | 0.58 | 0.58 | 2.5 |
| o-Xylene | 0.13 | 0.24 | 0.58 | 1.0 |
| Styrene | 0.13 | Not Detected | 0.57 | Not Detected |
| Bromoform | 0.13 | Not Detected | 1.4 | Not Detected |
| Cumene | 0.13 | Not Detected | 0.66 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 0.13 | Not Detected | 0.92 | Not Detected |
| Propylbenzene | 0.13 | 0.17 | 0.66 | 0.84 |
| 4-Ethyltoluene | 0.13 | 0.94 | 0.66 | 4.6 |
| 1,3,5-Trimethylbenzene | 0.13 | 0.33 | 0.66 | 1.6 |
| 1,2,4-Trimethylbenzene | 0.13 | 0.98 | 0.66 | 4.8 |
| 1,3-Dichlorobenzene | 0.13 | Not Detected | 0.80 | Not Detected |
| 1,4-Dichlorobenzene | 0.13 | Not Detected | 0.80 | Not Detected |
| alpha-Chlorotoluene | 0.13 | Not Detected | 0.69 | Not Detected |
| 1,2-Dichlorobenzene | 0.13 | Not Detected | 0.80 | Not Detected |
| 1,2,4-Trichlorobenzene | 0.67 | Not Detected | 5.0 | Not Detected |
| Hexachlorobutadiene | 0.67 | Not Detected | 7.1 | Not Detected |

**Container Type: 6 Liter Summa Special**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 95 | 70-130 |
| Toluene-d8 | 103 | 70-130 |
| 4-Bromofluorobenzene | 103 | 70-130 |



0010

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: B-1-022707**

**Lab ID#: 0703060B-06B**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **y031707sim** | **Date of Collection: 2/27/07** | |
| **Dil. Factor:** | **1.34** | **Date of Analysis: 3/17/07 02:53 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Carbon Tetrachloride | 0.027 | 0.088 | 0.17 | 0.55 |
| Trichloroethene | 0.027 | 0.032 | 0.14 | 0.17 |

**Container Type: 6 Liter Summa Special**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 103 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 99 | 70-130 |

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: B-2-022707**

**Lab ID#: 0703060B-07A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **y031708** | **Date of Collection:** | **2/27/07** |
| **Dil. Factor:** | **1.49** | **Date of Analysis:** | **3/17/07 03:35 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Freon 12 | 0.15 | 0.58 | 0.74 | 2.9 |
| Freon 114 | 0.15 | Not Detected | 1.0 | Not Detected |
| Chloromethane | 0.15 | 0.39 | 0.31 | 0.80 |
| Vinyl Chloride | 0.15 | Not Detected | 0.38 | Not Detected |
| 1,3-Butadiene | 0.15 | Not Detected | 0.33 | Not Detected |
| Bromomethane | 0.15 | Not Detected | 0.58 | Not Detected |
| Chloroethane | 0.15 | Not Detected | 0.39 | Not Detected |
| Freon 11 | 0.15 | 0.25 | 0.84 | 1.4 |
| Ethanol | 0.74 | 14 | 1.4 | 27 |
| Freon 113 | 0.15 | Not Detected | 1.1 | Not Detected |
| 1,1-Dichloroethene | 0.15 | Not Detected | 0.59 | Not Detected |
| Acetone | 0.74 | 43 | 1.8 | 100 |
| 2-Propanol | 0.74 | 2.0 | 1.8 | 4.8 |
| Carbon Disulfide | 0.74 | Not Detected | 2.3 | Not Detected |
| Methylene Chloride | 0.30 | 0.40 | 1.0 | 1.4 |
| Methyl tert-butyl ether | 0.15 | Not Detected | 0.54 | Not Detected |
| trans-1,2-Dichloroethene | 0.15 | Not Detected | 0.59 | Not Detected |
| Hexane | 0.15 | 0.56 | 0.52 | 2.0 |
| 1,1-Dichloroethane | 0.15 | Not Detected | 0.60 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 0.15 | 17 | 0.44 | 49 |
| cis-1,2-Dichloroethene | 0.15 | Not Detected | 0.59 | Not Detected |
| Tetrahydrofuran | 0.74 | Not Detected | 2.2 | Not Detected |
| Chloroform | 0.15 | Not Detected | 0.73 | Not Detected |
| 1,1,1-Trichloroethane | 0.15 | Not Detected | 0.81 | Not Detected |
| Cyclohexane | 0.15 | Not Detected | 0.51 | Not Detected |
| Benzene | 0.15 | 0.53 | 0.48 | 1.7 |
| 1,2-Dichloroethane | 0.15 | Not Detected | 0.60 | Not Detected |
| Heptane | 0.15 | 0.63 | 0.61 | 2.6 |
| 1,2-Dichloropropane | 0.15 | Not Detected | 0.69 | Not Detected |
| 1,4-Dioxane | 0.15 | Not Detected | 0.54 | Not Detected |
| Bromodichloromethane | 0.15 | Not Detected | 1.0 | Not Detected |
| cis-1,3-Dichloropropene | 0.15 | Not Detected | 0.68 | Not Detected |
| 4-Methyl-2-pentanone | 0.15 | Not Detected | 0.61 | Not Detected |
| Toluene | 0.15 | 1.2 | 0.56 | 4.7 |
| trans-1,3-Dichloropropene | 0.15 | Not Detected | 0.68 | Not Detected |
| 1,1,2-Trichloroethane | 0.15 | Not Detected | 0.81 | Not Detected |
| Tetrachloroethene | 0.15 | Not Detected | 1.0 | Not Detected |
| 2-Hexanone | 0.74 | 2.8 | 3.0 | 12 |
| Dibromochloromethane | 0.15 | Not Detected | 1.3 | Not Detected |

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: B-2-022707**

**Lab ID#: 0703060B-07A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **y031708** | **Date of Collection:** | **2/27/07** |
| **Dil. Factor:** | **1.49** | **Date of Analysis:** | **3/17/07 03:35 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 0.15 | Not Detected | 1.1 | Not Detected |
| Chlorobenzene | 0.15 | Not Detected | 0.68 | Not Detected |
| Ethyl Benzene | 0.15 | 0.18 | 0.65 | 0.76 |
| m,p-Xylene | 0.15 | 0.62 | 0.65 | 2.7 |
| o-Xylene | 0.15 | 0.25 | 0.65 | 1.1 |
| Styrene | 0.15 | Not Detected | 0.63 | Not Detected |
| Bromoform | 0.15 | Not Detected | 1.5 | Not Detected |
| Cumene | 0.15 | Not Detected | 0.73 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 0.15 | Not Detected | 1.0 | Not Detected |
| Propylbenzene | 0.15 | Not Detected | 0.73 | Not Detected |
| 4-Ethyltoluene | 0.15 | 0.23 | 0.73 | 1.1 |
| 1,3,5-Trimethylbenzene | 0.15 | Not Detected | 0.73 | Not Detected |
| 1,2,4-Trimethylbenzene | 0.15 | 0.28 | 0.73 | 1.4 |
| 1,3-Dichlorobenzene | 0.15 | Not Detected | 0.90 | Not Detected |
| 1,4-Dichlorobenzene | 0.15 | Not Detected | 0.90 | Not Detected |
| alpha-Chlorotoluene | 0.15 | Not Detected | 0.77 | Not Detected |
| 1,2-Dichlorobenzene | 0.15 | Not Detected | 0.90 | Not Detected |
| 1,2,4-Trichlorobenzene | 0.74 | Not Detected | 5.5 | Not Detected |
| Hexachlorobutadiene | 0.74 | Not Detected | 7.9 | Not Detected |

**Container Type: 6 Liter Summa Special**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 94 | 70-130 |
| Toluene-d8 | 99 | 70-130 |
| 4-Bromofluorobenzene | 97 | 70-130 |



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Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: B-2-022707**

**Lab ID#: 0703060B-07B**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **y031708sim** | **Date of Collection:** | **2/27/07** |
| **Dil. Factor:** | **1.49** | **Date of Analysis:** | **3/17/07 03:35 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Carbon Tetrachloride | 0.030 | 0.086 | 0.19 | 0.54 |
| Trichloroethene | 0.030 | Not Detected | 0.16 | Not Detected |

**Container Type: 6 Liter Summa Special**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 103 | 70-130 |
| Toluene-d8 | 98 | 70-130 |
| 4-Bromofluorobenzene | 97 | 70-130 |

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: B-4-022707**

**Lab ID#: 0703060B-08A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **y031808** | **Date of Collection:** | **2/27/07** |
| **Dil. Factor:** | **15.2** | **Date of Analysis:** | **3/18/07 04:28 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Freon 12 | 1.5 | Not Detected | 7.5 | Not Detected |
| Freon 114 | 1.5 | Not Detected | 11 | Not Detected |
| Chloromethane | 1.5 | Not Detected | 3.1 | Not Detected |
| Vinyl Chloride | 1.5 | Not Detected | 3.9 | Not Detected |
| 1,3-Butadiene | 1.5 | Not Detected | 3.4 | Not Detected |
| Bromomethane | 1.5 | Not Detected | 5.9 | Not Detected |
| Chloroethane | 1.5 | Not Detected | 4.0 | Not Detected |
| Freon 11 | 1.5 | Not Detected | 8.5 | Not Detected |
| Ethanol | 7.6 | 3400 E > L.R | 14 | 6500 E |
| Freon 113 | 1.5 | Not Detected | 12 | Not Detected |
| 1,1-Dichloroethene | 1.5 | Not Detected | 6.0 | Not Detected |
| Acetone | 7.6 | 14 | 18 | 35 |
| 2-Propanol | 7.6 | Not Detected | 19 | Not Detected |
| Carbon Disulfide | 7.6 | Not Detected | 24 | Not Detected |
| Methylene Chloride | 3.0 | Not Detected | 10 | Not Detected |
| Methyl tert-butyl ether | 1.5 | Not Detected | 5.5 | Not Detected |
| trans-1,2-Dichloroethene | 1.5 | Not Detected | 6.0 | Not Detected |
| Hexane | 1.5 | Not Detected | 5.4 | Not Detected |
| 1,1-Dichloroethane | 1.5 | Not Detected | 6.2 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 1.5 | 4.4 | 4.5 | 13 |
| cis-1,2-Dichloroethene | 1.5 | Not Detected | 6.0 | Not Detected |
| Tetrahydrofuran | 7.6 | Not Detected | 22 | Not Detected |
| Chloroform | 1.5 | Not Detected | 7.4 | Not Detected |
| 1,1,1-Trichloroethane | 1.5 | Not Detected | 8.3 | Not Detected |
| Cyclohexane | 1.5 | Not Detected | 5.2 | Not Detected |
| Benzene | 1.5 | Not Detected | 4.8 | Not Detected |
| 1,2-Dichloroethane | 1.5 | Not Detected | 6.2 | Not Detected |
| Heptane | 1.5 | Not Detected | 6.2 | Not Detected |
| 1,2-Dichloropropane | 1.5 | Not Detected | 7.0 | Not Detected |
| 1,4-Dioxane | 1.5 | Not Detected | 5.5 | Not Detected |
| Bromodichloromethane | 1.5 | Not Detected | 10 | Not Detected |
| cis-1,3-Dichloropropene | 1.5 | Not Detected | 6.9 | Not Detected |
| 4-Methyl-2-pentanone | 1.5 | Not Detected | 6.2 | Not Detected |
| Toluene | 1.5 | 2.0 | 5.7 | 7.6 |
| trans-1,3-Dichloropropene | 1.5 | Not Detected | 6.9 | Not Detected |
| 1,1,2-Trichloroethane | 1.5 | Not Detected | 8.3 | Not Detected |
| Tetrachloroethene | 1.5 | Not Detected | 10 | Not Detected |
| 2-Hexanone | 7.6 | Not Detected | 31 | Not Detected |
| Dibromochloromethane | 1.5 | Not Detected | 13 | Not Detected |

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: B-4-022707**

**Lab ID#: 0703060B-08A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **y031808** | **Date of Collection:** | **2/27/07** |
| **Dil. Factor:** | **15.2** | **Date of Analysis:** | **3/18/07 04:28 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 1.5 | Not Detected | 12 | Not Detected |
| Chlorobenzene | 1.5 | Not Detected | 7.0 | Not Detected |
| Ethyl Benzene | 1.5 | Not Detected | 6.6 | Not Detected |
| m,p-Xylene | 1.5 | Not Detected | 6.6 | Not Detected |
| o-Xylene | 1.5 | Not Detected | 6.6 | Not Detected |
| Styrene | 1.5 | Not Detected | 6.5 | Not Detected |
| Bromoform | 1.5 | Not Detected | 16 | Not Detected |
| Cumene | 1.5 | Not Detected | 7.5 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 1.5 | Not Detected | 10 | Not Detected |
| Propylbenzene | 1.5 | Not Detected | 7.5 | Not Detected |
| 4-Ethyltoluene | 1.5 | Not Detected | 7.5 | Not Detected |
| 1,3,5-Trimethylbenzene | 1.5 | Not Detected | 7.5 | Not Detected |
| 1,2,4-Trimethylbenzene | 1.5 | Not Detected | 7.5 | Not Detected |
| 1,3-Dichlorobenzene | 1.5 | Not Detected | 9.1 | Not Detected |
| 1,4-Dichlorobenzene | 1.5 | 3.6 | 9.1 | 21 |
| alpha-Chlorotoluene | 1.5 | Not Detected | 7.9 | Not Detected |
| 1,2-Dichlorobenzene | 1.5 | Not Detected | 9.1 | Not Detected |
| 1,2,4-Trichlorobenzene | 7.6 | Not Detected | 56 | Not Detected |
| Hexachlorobutadiene | 7.6 | Not Detected | 81 | Not Detected |

E = Exceeds instrument calibration range.

**Container Type: 6 Liter Summa Special**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 96 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 98 | 70-130 |



0081

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: B-4-022707**

**Lab ID#: 0703060B-08B**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **y031808sim** | **Date of Collection: 2/27/07** | |
| **Dil. Factor:** | **15.2** | **Date of Analysis: 3/18/07 04:28 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Carbon Tetrachloride | 0.30 | Not Detected | 1.9 | Not Detected |
| Trichloroethene | 0.30 | Not Detected | 1.6 | Not Detected |

**Container Type: 6 Liter Summa Special**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 99 | 70-130 |
| Toluene-d8 | 98 | 70-130 |
| 4-Bromofluorobenzene | 96 | 70-130 |

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: B-5-022707**

**Lab ID#: 0703060B-09A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **y031710** | **Date of Collection:** | **2/27/07** |
| **Dil. Factor:** | **1.58** | **Date of Analysis:** | **3/17/07 04:45 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Freon 12 | 0.16 | 0.56 | 0.78 | 2.8 |
| Freon 114 | 0.16 | Not Detected | 1.1 | Not Detected |
| Chloromethane | 0.16 | 0.45 | 0.33 | 0.94 |
| Vinyl Chloride | 0.16 | Not Detected | 0.40 | Not Detected |
| 1,3-Butadiene | 0.16 | Not Detected | 0.35 | Not Detected |
| Bromomethane | 0.16 | Not Detected | 0.61 | Not Detected |
| Chloroethane | 0.16 | Not Detected | 0.42 | Not Detected |
| Freon 11 | 0.16 | 0.26 | 0.89 | 1.5 |
| Ethanol | 0.79 | 10 | 1.5 | 19 |
| Freon 113 | 0.16 | Not Detected | 1.2 | Not Detected |
| 1,1-Dichloroethene | 0.16 | Not Detected | 0.63 | Not Detected |
| Acetone | 0.79 | 3.1 | 1.9 | 7.4 |
| 2-Propanol | 0.79 | Not Detected | 1.9 | Not Detected |
| Carbon Disulfide | 0.79 | Not Detected | 2.5 | Not Detected |
| Methylene Chloride | 0.32 | 0.44 | 1.1 | 1.5 |
| Methyl tert-butyl ether | 0.16 | Not Detected | 0.57 | Not Detected |
| trans-1,2-Dichloroethene | 0.16 | Not Detected | 0.63 | Not Detected |
| Hexane | 0.16 | 1.2 | 0.56 | 4.3 |
| 1,1-Dichloroethane | 0.16 | Not Detected | 0.64 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 0.16 | 1.0 | 0.46 | 3.0 |
| cis-1,2-Dichloroethene | 0.16 | Not Detected | 0.63 | Not Detected |
| Tetrahydrofuran | 0.79 | Not Detected | 2.3 | Not Detected |
| Chloroform | 0.16 | Not Detected | 0.77 | Not Detected |
| 1,1,1-Trichloroethane | 0.16 | Not Detected | 0.86 | Not Detected |
| Cyclohexane | 0.16 | 0.28 | 0.54 | 0.98 |
| Benzene | 0.16 | 1.1 | 0.50 | 3.6 |
| 1,2-Dichloroethane | 0.16 | Not Detected | 0.64 | Not Detected |
| Heptane | 0.16 | 0.46 | 0.65 | 1.9 |
| 1,2-Dichloropropane | 0.16 | Not Detected | 0.73 | Not Detected |
| 1,4-Dioxane | 0.16 | Not Detected | 0.57 | Not Detected |
| Bromodichloromethane | 0.16 | Not Detected | 1.0 | Not Detected |
| cis-1,3-Dichloropropene | 0.16 | Not Detected | 0.72 | Not Detected |
| 4-Methyl-2-pentanone | 0.16 | Not Detected | 0.65 | Not Detected |
| Toluene | 0.16 | 4.3 | 0.60 | 16 |
| trans-1,3-Dichloropropene | 0.16 | Not Detected | 0.72 | Not Detected |
| 1,1,2-Trichloroethane | 0.16 | Not Detected | 0.86 | Not Detected |
| Tetrachloroethene | 0.16 | Not Detected | 1.1 | Not Detected |
| 2-Hexanone | 0.79 | Not Detected | 3.2 | Not Detected |
| Dibromochloromethane | 0.16 | Not Detected | 1.3 | Not Detected |



0100

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: B-5-022707**

**Lab ID#: 0703060B-09A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **y031710** | **Date of Collection: 2/27/07** | |
| **Dil. Factor:** | **1.58** | **Date of Analysis: 3/17/07 04:45 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 0.16 | Not Detected | 1.2 | Not Detected |
| Chlorobenzene | 0.16 | Not Detected | 0.73 | Not Detected |
| Ethyl Benzene | 0.16 | 0.62 | 0.69 | 2.7 |
| m,p-Xylene | 0.16 | 2.3 | 0.69 | 9.8 |
| o-Xylene | 0.16 | 0.77 | 0.69 | 3.3 |
| Styrene | 0.16 | Not Detected | 0.67 | Not Detected |
| Bromoform | 0.16 | Not Detected | 1.6 | Not Detected |
| Cumene | 0.16 | Not Detected | 0.78 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 0.16 | Not Detected | 1.1 | Not Detected |
| Propylbenzene | 0.16 | Not Detected | 0.78 | Not Detected |
| 4-Ethyltoluene | 0.16 | 0.58 | 0.78 | 2.9 |
| 1,3,5-Trimethylbenzene | 0.16 | 0.19 | 0.78 | 0.95 |
| 1,2,4-Trimethylbenzene | 0.16 | 0.67 | 0.78 | 3.3 |
| 1,3-Dichlorobenzene | 0.16 | Not Detected | 0.95 | Not Detected |
| 1,4-Dichlorobenzene | 0.16 | Not Detected | 0.95 | Not Detected |
| alpha-Chlorotoluene | 0.16 | Not Detected | 0.82 | Not Detected |
| 1,2-Dichlorobenzene | 0.16 | Not Detected | 0.95 | Not Detected |
| 1,2,4-Trichlorobenzene | 0.79 | Not Detected | 5.9 | Not Detected |
| Hexachlorobutadiene | 0.79 | Not Detected | 8.4 | Not Detected |

**Container Type: 6 Liter Summa Special**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 97 | 70-130 |
| Toluene-d8 | 99 | 70-130 |
| 4-Bromofluorobenzene | 98 | 70-130 |



0101

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: B-5-022707**

**Lab ID#: 0703060B-09B**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **y031710sim** | **Date of Collection:** | **2/27/07** |
| **Dil. Factor:** | **1.58** | **Date of Analysis:** | **3/17/07 04:45 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Carbon Tetrachloride | 0.032 | 0.085 | 0.20 | 0.54 |
| Trichloroethene | 0.032 | Not Detected | 0.17 | Not Detected |

**Container Type: 6 Liter Summa Special**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 105 | 70-130 |
| Toluene-d8 | 99 | 70-130 |
| 4-Bromofluorobenzene | 96 | 70-130 |

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: Amb-E-022707**

**Lab ID#: 0703060B-10A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **y031712** | **Date of Collection:** | **2/27/07** |
| **Dil. Factor:** | **1.83** | **Date of Analysis:** | **3/17/07 06:20 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Freon 12 | 0.18 | 0.61 | 0.90 | 3.0 |
| Freon 114 | 0.18 | Not Detected | 1.3 | Not Detected |
| Chloromethane | 0.18 | 0.55 | 0.38 | 1.1 |
| Vinyl Chloride | 0.18 | Not Detected | 0.47 | Not Detected |
| 1,3-Butadiene | 0.18 | Not Detected | 0.40 | Not Detected |
| Bromomethane | 0.18 | Not Detected | 0.71 | Not Detected |
| Chloroethane | 0.18 | Not Detected | 0.48 | Not Detected |
| Freon 11 | 0.18 | 0.26 | 1.0 | 1.5 |
| Ethanol | 0.92 | 7.5 | 1.7 | 14 |
| Freon 113 | 0.18 | Not Detected | 1.4 | Not Detected |
| 1,1-Dichloroethene | 0.18 | Not Detected | 0.72 | Not Detected |
| Acetone | 0.92 | 4.9 | 2.2 | 12 |
| 2-Propanol | 0.92 | Not Detected | 2.2 | Not Detected |
| Carbon Disulfide | 0.92 | Not Detected | 2.8 | Not Detected |
| Methylene Chloride | 0.37 | 0.42 | 1.3 | 1.4 |
| Methyl tert-butyl ether | 0.18 | Not Detected | 0.66 | Not Detected |
| trans-1,2-Dichloroethene | 0.18 | Not Detected | 0.72 | Not Detected |
| Hexane | 0.18 | 0.52 | 0.64 | 1.8 |
| 1,1-Dichloroethane | 0.18 | Not Detected | 0.74 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 0.18 | 0.87 | 0.54 | 2.6 |
| cis-1,2-Dichloroethene | 0.18 | Not Detected | 0.72 | Not Detected |
| Tetrahydrofuran | 0.92 | Not Detected | 2.7 | Not Detected |
| Chloroform | 0.18 | Not Detected | 0.89 | Not Detected |
| 1,1,1-Trichloroethane | 0.18 | Not Detected | 1.0 | Not Detected |
| Cyclohexane | 0.18 | Not Detected | 0.63 | Not Detected |
| Benzene | 0.18 | 0.76 | 0.58 | 2.4 |
| 1,2-Dichloroethane | 0.18 | Not Detected | 0.74 | Not Detected |
| Heptane | 0.18 | 0.22 | 0.75 | 0.91 |
| 1,2-Dichloropropane | 0.18 | Not Detected | 0.84 | Not Detected |
| 1,4-Dioxane | 0.18 | Not Detected | 0.66 | Not Detected |
| Bromodichloromethane | 0.18 | Not Detected | 1.2 | Not Detected |
| cis-1,3-Dichloropropene | 0.18 | Not Detected | 0.83 | Not Detected |
| 4-Methyl-2-pentanone | 0.18 | Not Detected | 0.75 | Not Detected |
| Toluene | 0.18 | 1.6 | 0.69 | 6.2 |
| trans-1,3-Dichloropropene | 0.18 | Not Detected | 0.83 | Not Detected |
| 1,1,2-Trichloroethane | 0.18 | Not Detected | 1.0 | Not Detected |
| Tetrachloroethene | 0.18 | Not Detected | 1.2 | Not Detected |
| 2-Hexanone | 0.92 | Not Detected | 3.7 | Not Detected |
| Dibromochloromethane | 0.18 | Not Detected | 1.6 | Not Detected |

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: Amb-E-022707**

**Lab ID#: 0703060B-10A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **y031712** | **Date of Collection:** | **2/27/07** |
| **Dil. Factor:** | **1.83** | **Date of Analysis:** | **3/17/07 06:20 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 0.18 | Not Detected | 1.4 | Not Detected |
| Chlorobenzene | 0.18 | Not Detected | 0.84 | Not Detected |
| Ethyl Benzene | 0.18 | 0.24 | 0.79 | 1.0 |
| m,p-Xylene | 0.18 | 0.83 | 0.79 | 3.6 |
| o-Xylene | 0.18 | 0.31 | 0.79 | 1.4 |
| Styrene | 0.18 | Not Detected | 0.78 | Not Detected |
| Bromoform | 0.18 | Not Detected | 1.9 | Not Detected |
| Cumene | 0.18 | Not Detected | 0.90 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 0.18 | Not Detected | 1.2 | Not Detected |
| Propylbenzene | 0.18 | Not Detected | 0.90 | Not Detected |
| 4-Ethyltoluene | 0.18 | 0.27 | 0.90 | 1.3 |
| 1,3,5-Trimethylbenzene | 0.18 | Not Detected | 0.90 | Not Detected |
| 1,2,4-Trimethylbenzene | 0.18 | 0.28 | 0.90 | 1.4 |
| 1,3-Dichlorobenzene | 0.18 | Not Detected | 1.1 | Not Detected |
| 1,4-Dichlorobenzene | 0.18 | Not Detected | 1.1 | Not Detected |
| alpha-Chlorotoluene | 0.18 | Not Detected | 0.95 | Not Detected |
| 1,2-Dichlorobenzene | 0.18 | Not Detected | 1.1 | Not Detected |
| 1,2,4-Trichlorobenzene | 0.92 | Not Detected | 6.8 | Not Detected |
| Hexachlorobutadiene | 0.92 | Not Detected | 9.8 | Not Detected |

**Container Type: 6 Liter Summa Special**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 98 | 70-130 |
| Toluene-d8 | 98 | 70-130 |
| 4-Bromofluorobenzene | 98 | 70-130 |

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: Amb-E-022707**

**Lab ID#: 0703060B-10B**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **y031712sim** | **Date of Collection:** | **2/27/07** |
| **Dil. Factor:** | **1.83** | **Date of Analysis:** | **3/17/07 06:20 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Carbon Tetrachloride | 0.037 | 0.084 | 0.23 | 0.52 |
| Trichloroethene | 0.037 | Not Detected | 0.20 | Not Detected |

**Container Type: 6 Liter Summa Special**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 105 | 70-130 |
| Toluene-d8 | 98 | 70-130 |
| 4-Bromofluorobenzene | 96 | 70-130 |

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: Amb-W-022707**

**Lab ID#: 0703060B-11A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **y031711** | **Date of Collection:** | **2/27/07** |
| **Dil. Factor:** | **1.52** | **Date of Analysis:** | **3/17/07 05:37 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Freon 12 | 0.15 | 0.63 | 0.75 | 3.1 |
| Freon 114 | 0.15 | Not Detected | 1.1 | Not Detected |
| Chloromethane | 0.15 | 0.48 | 0.31 | 1.0 |
| Vinyl Chloride | 0.15 | Not Detected | 0.39 | Not Detected |
| 1,3-Butadiene | 0.15 | Not Detected | 0.34 | Not Detected |
| Bromomethane | 0.15 | Not Detected | 0.59 | Not Detected |
| Chloroethane | 0.15 | Not Detected | 0.40 | Not Detected |
| Freon 11 | 0.15 | 0.30 | 0.85 | 1.7 |
| Ethanol | 0.76 | 5.0 | 1.4 | 9.4 |
| Freon 113 | 0.15 | Not Detected | 1.2 | Not Detected |
| 1,1-Dichloroethene | 0.15 | Not Detected | 0.60 | Not Detected |
| Acetone | 0.76 | 2.6 | 1.8 | 6.1 |
| 2-Propanol | 0.76 | 0.80 | 1.9 | 2.0 |
| Carbon Disulfide | 0.76 | Not Detected | 2.4 | Not Detected |
| Methylene Chloride | 0.30 | 0.42 | 1.0 | 1.4 |
| Methyl tert-butyl ether | 0.15 | Not Detected | 0.55 | Not Detected |
| trans-1,2-Dichloroethene | 0.15 | Not Detected | 0.60 | Not Detected |
| Hexane | 0.15 | 0.46 | 0.54 | 1.6 |
| 1,1-Dichloroethane | 0.15 | Not Detected | 0.62 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 0.15 | 0.62 | 0.45 | 1.8 |
| cis-1,2-Dichloroethene | 0.15 | Not Detected | 0.60 | Not Detected |
| Tetrahydrofuran | 0.76 | Not Detected | 2.2 | Not Detected |
| Chloroform | 0.15 | Not Detected | 0.74 | Not Detected |
| 1,1,1-Trichloroethane | 0.15 | Not Detected | 0.83 | Not Detected |
| Cyclohexane | 0.15 | Not Detected | 0.52 | Not Detected |
| Benzene | 0.15 | 0.65 | 0.48 | 2.1 |
| 1,2-Dichloroethane | 0.15 | Not Detected | 0.62 | Not Detected |
| Heptane | 0.15 | 0.21 | 0.62 | 0.86 |
| 1,2-Dichloropropane | 0.15 | Not Detected | 0.70 | Not Detected |
| 1,4-Dioxane | 0.15 | Not Detected | 0.55 | Not Detected |
| Bromodichloromethane | 0.15 | Not Detected | 1.0 | Not Detected |
| cis-1,3-Dichloropropene | 0.15 | Not Detected | 0.69 | Not Detected |
| 4-Methyl-2-pentanone | 0.15 | Not Detected | 0.62 | Not Detected |
| Toluene | 0.15 | 1.4 | 0.57 | 5.1 |
| trans-1,3-Dichloropropene | 0.15 | Not Detected | 0.69 | Not Detected |
| 1,1,2-Trichloroethane | 0.15 | Not Detected | 0.83 | Not Detected |
| Tetrachloroethene | 0.15 | Not Detected | 1.0 | Not Detected |
| 2-Hexanone | 0.76 | Not Detected | 3.1 | Not Detected |
| Dibromochloromethane | 0.15 | Not Detected | 1.3 | Not Detected |

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: Amb-W-022707**

**Lab ID#: 0703060B-11A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **y031711** | **Date of Collection: 2/27/07** | |
| **Dil. Factor:** | **1.52** | **Date of Analysis: 3/17/07 05:37 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 0.15 | Not Detected | 1.2 | Not Detected |
| Chlorobenzene | 0.15 | Not Detected | 0.70 | Not Detected |
| Ethyl Benzene | 0.15 | 0.22 | 0.66 | 0.94 |
| m,p-Xylene | 0.15 | 0.65 | 0.66 | 2.8 |
| o-Xylene | 0.15 | 0.27 | 0.66 | 1.2 |
| Styrene | 0.15 | Not Detected | 0.65 | Not Detected |
| Bromoform | 0.15 | Not Detected | 1.6 | Not Detected |
| Cumene | 0.15 | Not Detected | 0.75 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 0.15 | Not Detected | 1.0 | Not Detected |
| Propylbenzene | 0.15 | Not Detected | 0.75 | Not Detected |
| 4-Ethyltoluene | 0.15 | 0.20 | 0.75 | 0.98 |
| 1,3,5-Trimethylbenzene | 0.15 | Not Detected | 0.75 | Not Detected |
| 1,2,4-Trimethylbenzene | 0.15 | 0.21 | 0.75 | 1.0 |
| 1,3-Dichlorobenzene | 0.15 | Not Detected | 0.91 | Not Detected |
| 1,4-Dichlorobenzene | 0.15 | Not Detected | 0.91 | Not Detected |
| alpha-Chlorotoluene | 0.15 | Not Detected | 0.79 | Not Detected |
| 1,2-Dichlorobenzene | 0.15 | Not Detected | 0.91 | Not Detected |
| 1,2,4-Trichlorobenzene | 0.76 | Not Detected | 5.6 | Not Detected |
| Hexachlorobutadiene | 0.76 | Not Detected | 8.1 | Not Detected |

**Container Type: 6 Liter Summa Special**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 94 | 70-130 |
| Toluene-d8 | 97 | 70-130 |
| 4-Bromofluorobenzene | 97 | 70-130 |

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: Amb-W-022707**

**Lab ID#: 0703060B-11B**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **y031711sim** | **Date of Collection: 2/27/07** | |
| **Dil. Factor:** | **1.52** | **Date of Analysis: 3/17/07 05:37 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Carbon Tetrachloride | 0.030 | 0.095 | 0.19 | 0.60 |
| Trichloroethene | 0.030 | 0.032 | 0.16 | 0.17 |

**Container Type: 6 Liter Summa Special**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 105 | 70-130 |
| Toluene-d8 | 98 | 70-130 |
| 4-Bromofluorobenzene | 97 | 70-130 |

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: FF-1-022707**

**Lab ID#: 0703060B-12A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **y031815** | **Date of Collection: 2/27/07** | |
| **Dil. Factor:** | **23.8** | **Date of Analysis: 3/18/07 09:48 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Freon 12 | 2.4 | Not Detected | 12 | Not Detected |
| Freon 114 | 2.4 | Not Detected | 17 | Not Detected |
| Chloromethane | 2.4 | Not Detected | 4.9 | Not Detected |
| Vinyl Chloride | 2.4 | Not Detected | 6.1 | Not Detected |
| 1,3-Butadiene | 2.4 | Not Detected | 5.3 | Not Detected |
| Bromomethane | 2.4 | Not Detected | 9.2 | Not Detected |
| Chloroethane | 2.4 | Not Detected | 6.3 | Not Detected |
| Freon 11 | 2.4 | Not Detected | 13 | Not Detected |
| Ethanol | 12 | 23 | 22 | 43 |
| Freon 113 | 2.4 | Not Detected | 18 | Not Detected |
| 1,1-Dichloroethene | 2.4 | Not Detected | 9.4 | Not Detected |
| Acetone | 12 | 26 | 28 | 62 |
| 2-Propanol | 12 | 130 | 29 | 330 |
| Carbon Disulfide | 12 | Not Detected | 37 | Not Detected |
| Methylene Chloride | 4.8 | Not Detected | 16 | Not Detected |
| Methyl tert-butyl ether | 2.4 | Not Detected | 8.6 | Not Detected |
| trans-1,2-Dichloroethene | 2.4 | Not Detected | 9.4 | Not Detected |
| Hexane | 2.4 | Not Detected | 8.4 | Not Detected |
| 1,1-Dichloroethane | 2.4 | Not Detected | 9.6 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 2.4 | 4.2 | 7.0 | 12 |
| cis-1,2-Dichloroethene | 2.4 | Not Detected | 9.4 | Not Detected |
| Tetrahydrofuran | 12 | Not Detected | 35 | Not Detected |
| Chloroform | 2.4 | Not Detected | 12 | Not Detected |
| 1,1,1-Trichloroethane | 2.4 | Not Detected | 13 | Not Detected |
| Cyclohexane | 2.4 | Not Detected | 8.2 | Not Detected |
| Benzene | 2.4 | Not Detected | 7.6 | Not Detected |
| 1,2-Dichloroethane | 2.4 | Not Detected | 9.6 | Not Detected |
| Heptane | 2.4 | 7.0 | 9.8 | 28 |
| 1,2-Dichloropropane | 2.4 | Not Detected | 11 | Not Detected |
| 1,4-Dioxane | 2.4 | Not Detected | 8.6 | Not Detected |
| Bromodichloromethane | 2.4 | Not Detected | 16 | Not Detected |
| cis-1,3-Dichloropropene | 2.4 | Not Detected | 11 | Not Detected |
| 4-Methyl-2-pentanone | 2.4 | 20 | 9.7 | 80 |
| Toluene | 2.4 | 15 | 9.0 | 56 |
| trans-1,3-Dichloropropene | 2.4 | Not Detected | 11 | Not Detected |
| 1,1,2-Trichloroethane | 2.4 | Not Detected | 13 | Not Detected |
| Tetrachloroethene | 2.4 | Not Detected | 16 | Not Detected |
| 2-Hexanone | 12 | Not Detected | 49 | Not Detected |
| Dibromochloromethane | 2.4 | Not Detected | 20 | Not Detected |



0203

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: FF-1-022707**

**Lab ID#: 0703060B-12A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **y031815** | **Date of Collection: 2/27/07** | |
| **Dil. Factor:** | **23.8** | **Date of Analysis: 3/18/07 09:48 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 2.4 | Not Detected | 18 | Not Detected |
| Chlorobenzene | 2.4 | Not Detected | 11 | Not Detected |
| Ethyl Benzene | 2.4 | Not Detected | 10 | Not Detected |
| m,p-Xylene | 2.4 | 2.7 | 10 | 12 |
| o-Xylene | 2.4 | Not Detected | 10 | Not Detected |
| Styrene | 2.4 | Not Detected | 10 | Not Detected |
| Bromoform | 2.4 | Not Detected | 25 | Not Detected |
| Cumene | 2.4 | 2.6 | 12 | 13 |
| 1,1,2,2-Tetrachloroethane | 2.4 | Not Detected | 16 | Not Detected |
| Propylbenzene | 2.4 | 110 | 12 | 550 |
| 4-Ethyltoluene | 2.4 | 650 | 12 | 3200 |
| 1,3,5-Trimethylbenzene | 2.4 | 230 | 12 | 1100 |
| 1,2,4-Trimethylbenzene | 2.4 | 630 | 12 | 3100 |
| 1,3-Dichlorobenzene | 2.4 | Not Detected | 14 | Not Detected |
| 1,4-Dichlorobenzene | 2.4 | Not Detected | 14 | Not Detected |
| alpha-Chlorotoluene | 2.4 | Not Detected | 12 | Not Detected |
| 1,2-Dichlorobenzene | 2.4 | Not Detected | 14 | Not Detected |
| 1,2,4-Trichlorobenzene | 12 | Not Detected | 88 | Not Detected |
| Hexachlorobutadiene | 12 | Not Detected | 130 | Not Detected |

**Container Type: 6 Liter Summa Special**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 95 | 70-130 |
| Toluene-d8 | 102 | 70-130 |
| 4-Bromofluorobenzene | 101 | 70-130 |



0204

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: FF-1-022707**

**Lab ID#: 0703060B-12B**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **y031815sim** | **Date of Collection: 2/27/07** | |
| **Dil. Factor:** | **23.8** | **Date of Analysis: 3/18/07 09:48 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Carbon Tetrachloride | 0.48 | Not Detected | 3.0 | Not Detected |
| Trichloroethene | 0.48 | Not Detected | 2.6 | Not Detected |

**Container Type: 6 Liter Summa Special**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 100 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 96 | 70-130 |

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: FF-2-022707**

**Lab ID#: 0703060B-13A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **y031713** | **Date of Collection:** | **2/27/07** |
| **Dil. Factor:** | **1.46** | **Date of Analysis:** | **3/17/07 06:57 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Freon 12 | 0.15 | 0.62 | 0.72 | 3.1 |
| Freon 114 | 0.15 | Not Detected | 1.0 | Not Detected |
| Chloromethane | 0.15 | 0.42 | 0.30 | 0.86 |
| Vinyl Chloride | 0.15 | Not Detected | 0.37 | Not Detected |
| 1,3-Butadiene | 0.15 | Not Detected | 0.32 | Not Detected |
| Bromomethane | 0.15 | Not Detected | 0.57 | Not Detected |
| Chloroethane | 0.15 | Not Detected | 0.38 | Not Detected |
| Freon 11 | 0.15 | 0.51 | 0.82 | 2.9 |
| Ethanol | 0.73 | 3.7 | 1.4 | 6.9 |
| Freon 113 | 0.15 | Not Detected | 1.1 | Not Detected |
| 1,1-Dichloroethene | 0.15 | Not Detected | 0.58 | Not Detected |
| Acetone | 0.73 | 4.5 | 1.7 | 10 |
| 2-Propanol | 0.73 | Not Detected | 1.8 | Not Detected |
| Carbon Disulfide | 0.73 | Not Detected | 2.3 | Not Detected |
| Methylene Chloride | 0.29 | 0.40 | 1.0 | 1.4 |
| Methyl tert-butyl ether | 0.15 | Not Detected | 0.53 | Not Detected |
| trans-1,2-Dichloroethene | 0.15 | Not Detected | 0.58 | Not Detected |
| Hexane | 0.15 | 0.64 | 0.51 | 2.3 |
| 1,1-Dichloroethane | 0.15 | Not Detected | 0.59 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 0.15 | 0.70 | 0.43 | 2.1 |
| cis-1,2-Dichloroethene | 0.15 | Not Detected | 0.58 | Not Detected |
| Tetrahydrofuran | 0.73 | Not Detected | 2.2 | Not Detected |
| Chloroform | 0.15 | Not Detected | 0.71 | Not Detected |
| 1,1,1-Trichloroethane | 0.15 | Not Detected | 0.80 | Not Detected |
| Cyclohexane | 0.15 | 0.14 J | 0.50 | 0.50 |
| Benzene | 0.15 | 0.67 | 0.47 | 2.1 |
| 1,2-Dichloroethane | 0.15 | Not Detected | 0.59 | Not Detected |
| Heptane | 0.15 | 0.27 | 0.60 | 1.1 |
| 1,2-Dichloropropane | 0.15 | Not Detected | 0.67 | Not Detected |
| 1,4-Dioxane | 0.15 | Not Detected | 0.53 | Not Detected |
| Bromodichloromethane | 0.15 | Not Detected | 0.98 | Not Detected |
| cis-1,3-Dichloropropene | 0.15 | Not Detected | 0.66 | Not Detected |
| 4-Methyl-2-pentanone | 0.15 | Not Detected | 0.60 | Not Detected |
| Toluene | 0.15 | 1.7 | 0.55 | 6.6 |
| trans-1,3-Dichloropropene | 0.15 | Not Detected | 0.66 | Not Detected |
| 1,1,2-Trichloroethane | 0.15 | Not Detected | 0.80 | Not Detected |
| Tetrachloroethene | 0.15 | Not Detected | 0.99 | Not Detected |
| 2-Hexanone | 0.73 | Not Detected | 3.0 | Not Detected |
| Dibromochloromethane | 0.15 | Not Detected | 1.2 | Not Detected |

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: FF-2-022707**

**Lab ID#: 0703060B-13A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **y031713** | **Date of Collection: 2/27/07** | |
| **Dil. Factor:** | **1.46** | **Date of Analysis: 3/17/07 06:57 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 0.15 | Not Detected | 1.1 | Not Detected |
| Chlorobenzene | 0.15 | Not Detected | 0.67 | Not Detected |
| Ethyl Benzene | 0.15 | 0.29 | 0.63 | 1.3 |
| m,p-Xylene | 0.15 | 1.0 | 0.63 | 4.5 |
| o-Xylene | 0.15 | 0.46 | 0.63 | 2.0 |
| Styrene | 0.15 | Not Detected | 0.62 | Not Detected |
| Bromoform | 0.15 | Not Detected | 1.5 | Not Detected |
| Cumene | 0.15 | Not Detected | 0.72 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 0.15 | Not Detected | 1.0 | Not Detected |
| Propylbenzene | 0.15 | Not Detected | 0.72 | Not Detected |
| 4-Ethyltoluene | 0.15 | 0.28 | 0.72 | 1.4 |
| 1,3,5-Trimethylbenzene | 0.15 | Not Detected | 0.72 | Not Detected |
| 1,2,4-Trimethylbenzene | 0.15 | 0.35 | 0.72 | 1.7 |
| 1,3-Dichlorobenzene | 0.15 | Not Detected | 0.88 | Not Detected |
| 1,4-Dichlorobenzene | 0.15 | Not Detected | 0.88 | Not Detected |
| alpha-Chlorotoluene | 0.15 | Not Detected | 0.76 | Not Detected |
| 1,2-Dichlorobenzene | 0.15 | Not Detected | 0.88 | Not Detected |
| 1,2,4-Trichlorobenzene | 0.73 | Not Detected | 5.4 | Not Detected |
| Hexachlorobutadiene | 0.73 | Not Detected | 7.8 | Not Detected |

J = Estimated value.

**Container Type: 6 Liter Summa Special**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 98 | 70-130 |
| Toluene-d8 | 99 | 70-130 |
| 4-Bromofluorobenzene | 93 | 70-130 |

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: FF-2-022707**

**Lab ID#: 0703060B-13B**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **y031713sim** | **Date of Collection: 2/27/07** | |
| **Dil. Factor:** | **1.46** | **Date of Analysis: 3/17/07 06:57 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Carbon Tetrachloride | 0.029 | 0.089 | 0.18 | 0.56 |
| Trichloroethene | 0.029 | 0.033 | 0.16 | 0.18 |

**Container Type: 6 Liter Summa Special**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 99 | 70-130 |
| Toluene-d8 | 97 | 70-130 |
| 4-Bromofluorobenzene | 94 | 70-130 |

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: FF-3-022707**

**Lab ID#: 0703060B-14A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **y031715** | **Date of Collection:** | **2/27/07** |
| **Dil. Factor:** | **1.55** | **Date of Analysis:** | **3/17/07 08:24 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Freon 12 | 0.16 | 0.53 | 0.77 | 2.6 |
| Freon 114 | 0.16 | Not Detected | 1.1 | Not Detected |
| Chloromethane | 0.16 | 0.57 | 0.32 | 1.2 |
| Vinyl Chloride | 0.16 | Not Detected | 0.40 | Not Detected |
| 1,3-Butadiene | 0.16 | Not Detected | 0.34 | Not Detected |
| Bromomethane | 0.16 | Not Detected | 0.60 | Not Detected |
| Chloroethane | 0.16 | Not Detected | 0.41 | Not Detected |
| Freon 11 | 0.16 | 0.25 | 0.87 | 1.4 |
| Ethanol | 0.78 | 5.4 | 1.5 | 10 |
| Freon 113 | 0.16 | Not Detected | 1.2 | Not Detected |
| 1,1-Dichloroethene | 0.16 | Not Detected | 0.61 | Not Detected |
| Acetone | 0.78 | 3.7 | 1.8 | 8.8 |
| 2-Propanol | 0.78 | Not Detected | 1.9 | Not Detected |
| Carbon Disulfide | 0.78 | Not Detected | 2.4 | Not Detected |
| Methylene Chloride | 0.31 | 0.37 | 1.1 | 1.3 |
| Methyl tert-butyl ether | 0.16 | Not Detected | 0.56 | Not Detected |
| trans-1,2-Dichloroethene | 0.16 | Not Detected | 0.61 | Not Detected |
| Hexane | 0.16 | 0.92 | 0.55 | 3.2 |
| 1,1-Dichloroethane | 0.16 | Not Detected | 0.63 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 0.16 | 0.67 | 0.46 | 2.0 |
| cis-1,2-Dichloroethene | 0.16 | Not Detected | 0.61 | Not Detected |
| Tetrahydrofuran | 0.78 | Not Detected | 2.3 | Not Detected |
| Chloroform | 0.16 | Not Detected | 0.76 | Not Detected |
| 1,1,1-Trichloroethane | 0.16 | Not Detected | 0.84 | Not Detected |
| Cyclohexane | 0.16 | 0.19 | 0.53 | 0.66 |
| Benzene | 0.16 | 0.77 | 0.50 | 2.4 |
| 1,2-Dichloroethane | 0.16 | Not Detected | 0.63 | Not Detected |
| Heptane | 0.16 | 0.29 | 0.64 | 1.2 |
| 1,2-Dichloropropane | 0.16 | Not Detected | 0.72 | Not Detected |
| 1,4-Dioxane | 0.16 | Not Detected | 0.56 | Not Detected |
| Bromodichloromethane | 0.16 | Not Detected | 1.0 | Not Detected |
| cis-1,3-Dichloropropene | 0.16 | Not Detected | 0.70 | Not Detected |
| 4-Methyl-2-pentanone | 0.16 | Not Detected | 0.63 | Not Detected |
| Toluene | 0.16 | 1.7 | 0.58 | 6.4 |
| trans-1,3-Dichloropropene | 0.16 | Not Detected | 0.70 | Not Detected |
| 1,1,2-Trichloroethane | 0.16 | Not Detected | 0.84 | Not Detected |
| Tetrachloroethene | 0.16 | Not Detected | 1.0 | Not Detected |
| 2-Hexanone | 0.78 | Not Detected | 3.2 | Not Detected |
| Dibromochloromethane | 0.16 | Not Detected | 1.3 | Not Detected |

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: FF-3-022707**

**Lab ID#: 0703060B-14A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **y031715** | **Date of Collection: 2/27/07** | |
| **Dil. Factor:** | **1.55** | **Date of Analysis: 3/17/07 08:24 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 0.16 | Not Detected | 1.2 | Not Detected |
| Chlorobenzene | 0.16 | Not Detected | 0.71 | Not Detected |
| Ethyl Benzene | 0.16 | 0.24 | 0.67 | 1.0 |
| m,p-Xylene | 0.16 | 0.74 | 0.67 | 3.2 |
| o-Xylene | 0.16 | 0.30 | 0.67 | 1.3 |
| Styrene | 0.16 | Not Detected | 0.66 | Not Detected |
| Bromoform | 0.16 | Not Detected | 1.6 | Not Detected |
| Cumene | 0.16 | Not Detected | 0.76 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 0.16 | Not Detected | 1.1 | Not Detected |
| Propylbenzene | 0.16 | Not Detected | 0.76 | Not Detected |
| 4-Ethyltoluene | 0.16 | 0.76 | 0.76 | 3.7 |
| 1,3,5-Trimethylbenzene | 0.16 | 0.25 | 0.76 | 1.2 |
| 1,2,4-Trimethylbenzene | 0.16 | 0.57 | 0.76 | 2.8 |
| 1,3-Dichlorobenzene | 0.16 | Not Detected | 0.93 | Not Detected |
| 1,4-Dichlorobenzene | 0.16 | Not Detected | 0.93 | Not Detected |
| alpha-Chlorotoluene | 0.16 | Not Detected | 0.80 | Not Detected |
| 1,2-Dichlorobenzene | 0.16 | Not Detected | 0.93 | Not Detected |
| 1,2,4-Trichlorobenzene | 0.78 | Not Detected | 5.8 | Not Detected |
| Hexachlorobutadiene | 0.78 | Not Detected | 8.3 | Not Detected |

**Container Type: 6 Liter Summa Special**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 94 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 98 | 70-130 |

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: FF-3-022707**

**Lab ID#: 0703060B-14B**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **y031715sim** | **Date of Collection:** | **2/27/07** |
| **Dil. Factor:** | **1.55** | **Date of Analysis:** | **3/17/07 08:24 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Carbon Tetrachloride | 0.031 | 0.085 | 0.20 | 0.54 |
| Trichloroethene | 0.031 | Not Detected | 0.17 | Not Detected |

**Container Type: 6 Liter Summa Special**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 106 | 70-130 |
| Toluene-d8 | 99 | 70-130 |
| 4-Bromofluorobenzene | 96 | 70-130 |

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: FF-3-022707 Duplicate**

**Lab ID#: 0703060B-14AA**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **y031716** | **Date of Collection:** | **2/27/07** |
| **Dil. Factor:** | **1.55** | **Date of Analysis:** | **3/17/07 09:16 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Freon 12 | 0.16 | 0.51 | 0.77 | 2.5 |
| Freon 114 | 0.16 | Not Detected | 1.1 | Not Detected |
| Chloromethane | 0.16 | 0.59 | 0.32 | 1.2 |
| Vinyl Chloride | 0.16 | Not Detected | 0.40 | Not Detected |
| 1,3-Butadiene | 0.16 | Not Detected | 0.34 | Not Detected |
| Bromomethane | 0.16 | Not Detected | 0.60 | Not Detected |
| Chloroethane | 0.16 | Not Detected | 0.41 | Not Detected |
| Freon 11 | 0.16 | 0.28 | 0.87 | 1.6 |
| Ethanol | 0.78 | 5.5 | 1.5 | 10 |
| Freon 113 | 0.16 | Not Detected | 1.2 | Not Detected |
| 1,1-Dichloroethene | 0.16 | Not Detected | 0.61 | Not Detected |
| Acetone | 0.78 | 4.4 | 1.8 | 10 |
| 2-Propanol | 0.78 | Not Detected | 1.9 | Not Detected |
| Carbon Disulfide | 0.78 | Not Detected | 2.4 | Not Detected |
| Methylene Chloride | 0.31 | 0.40 | 1.1 | 1.4 |
| Methyl tert-butyl ether | 0.16 | Not Detected | 0.56 | Not Detected |
| trans-1,2-Dichloroethene | 0.16 | Not Detected | 0.61 | Not Detected |
| Hexane | 0.16 | 0.93 | 0.55 | 3.3 |
| 1,1-Dichloroethane | 0.16 | Not Detected | 0.63 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 0.16 | 0.63 | 0.46 | 1.8 |
| cis-1,2-Dichloroethene | 0.16 | Not Detected | 0.61 | Not Detected |
| Tetrahydrofuran | 0.78 | Not Detected | 2.3 | Not Detected |
| Chloroform | 0.16 | Not Detected | 0.76 | Not Detected |
| 1,1,1-Trichloroethane | 0.16 | Not Detected | 0.84 | Not Detected |
| Cyclohexane | 0.16 | 0.23 | 0.53 | 0.80 |
| Benzene | 0.16 | 0.82 | 0.50 | 2.6 |
| 1,2-Dichloroethane | 0.16 | Not Detected | 0.63 | Not Detected |
| Heptane | 0.16 | 0.27 | 0.64 | 1.1 |
| 1,2-Dichloropropane | 0.16 | Not Detected | 0.72 | Not Detected |
| 1,4-Dioxane | 0.16 | Not Detected | 0.56 | Not Detected |
| Bromodichloromethane | 0.16 | Not Detected | 1.0 | Not Detected |
| cis-1,3-Dichloropropene | 0.16 | Not Detected | 0.70 | Not Detected |
| 4-Methyl-2-pentanone | 0.16 | Not Detected | 0.63 | Not Detected |
| Toluene | 0.16 | 1.7 | 0.58 | 6.5 |
| trans-1,3-Dichloropropene | 0.16 | Not Detected | 0.70 | Not Detected |
| 1,1,2-Trichloroethane | 0.16 | Not Detected | 0.84 | Not Detected |
| Tetrachloroethene | 0.16 | Not Detected | 1.0 | Not Detected |
| 2-Hexanone | 0.78 | Not Detected | 3.2 | Not Detected |
| Dibromochloromethane | 0.16 | Not Detected | 1.3 | Not Detected |

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: FF-3-022707 Duplicate**

**Lab ID#: 0703060B-14AA**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **y031716** | **Date of Collection: 2/27/07** | |
| **Dil. Factor:** | **1.55** | **Date of Analysis: 3/17/07 09:16 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 0.16 | Not Detected | 1.2 | Not Detected |
| Chlorobenzene | 0.16 | Not Detected | 0.71 | Not Detected |
| Ethyl Benzene | 0.16 | 0.23 | 0.67 | 1.0 |
| m,p-Xylene | 0.16 | 0.80 | 0.67 | 3.5 |
| o-Xylene | 0.16 | 0.35 | 0.67 | 1.5 |
| Styrene | 0.16 | Not Detected | 0.66 | Not Detected |
| Bromoform | 0.16 | Not Detected | 1.6 | Not Detected |
| Cumene | 0.16 | Not Detected | 0.76 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 0.16 | Not Detected | 1.1 | Not Detected |
| Propylbenzene | 0.16 | 0.16 | 0.76 | 0.76 |
| 4-Ethyltoluene | 0.16 | 0.77 | 0.76 | 3.8 |
| 1,3,5-Trimethylbenzene | 0.16 | 0.22 | 0.76 | 1.1 |
| 1,2,4-Trimethylbenzene | 0.16 | 0.61 | 0.76 | 3.0 |
| 1,3-Dichlorobenzene | 0.16 | Not Detected | 0.93 | Not Detected |
| 1,4-Dichlorobenzene | 0.16 | Not Detected | 0.93 | Not Detected |
| alpha-Chlorotoluene | 0.16 | Not Detected | 0.80 | Not Detected |
| 1,2-Dichlorobenzene | 0.16 | Not Detected | 0.93 | Not Detected |
| 1,2,4-Trichlorobenzene | 0.78 | Not Detected | 5.8 | Not Detected |
| Hexachlorobutadiene | 0.78 | Not Detected | 8.3 | Not Detected |

**Container Type: 6 Liter Summa Special**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 94 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 99 | 70-130 |

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: FF-3-022707 Duplicate**

**Lab ID#: 0703060B-14BB**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **y031716sim** | **Date of Collection:** | **2/27/07** |
| **Dil. Factor:** | **1.55** | **Date of Analysis:** | **3/17/07 09:16 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Carbon Tetrachloride | 0.031 | 0.087 | 0.20 | 0.55 |
| Trichloroethene | 0.031 | Not Detected | 0.17 | Not Detected |

**Container Type: 6 Liter Summa Special**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 108 | 70-130 |
| Toluene-d8 | 99 | 70-130 |
| 4-Bromofluorobenzene | 96 | 70-130 |

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: FF-4-022707**

**Lab ID#: 0703060B-15A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **y031807** | **Date of Collection:** | **2/27/07** |
| **Dil. Factor:** | **17.1** | **Date of Analysis:** | **3/18/07 03:40 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 1.7 | Not Detected | 13 | Not Detected |
| Chlorobenzene | 1.7 | Not Detected | 7.9 | Not Detected |
| Ethyl Benzene | 1.7 | Not Detected | 7.4 | Not Detected |
| m,p-Xylene | 1.7 | Not Detected | 7.4 | Not Detected |
| o-Xylene | 1.7 | Not Detected | 7.4 | Not Detected |
| Styrene | 1.7 | Not Detected | 7.3 | Not Detected |
| Bromoform | 1.7 | Not Detected | 18 | Not Detected |
| Cumene | 1.7 | Not Detected | 8.4 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 1.7 | Not Detected | 12 | Not Detected |
| Propylbenzene | 1.7 | Not Detected | 8.4 | Not Detected |
| 4-Ethyltoluene | 1.7 | Not Detected | 8.4 | Not Detected |
| 1,3,5-Trimethylbenzene | 1.7 | Not Detected | 8.4 | Not Detected |
| 1,2,4-Trimethylbenzene | 1.7 | Not Detected | 8.4 | Not Detected |
| 1,3-Dichlorobenzene | 1.7 | Not Detected | 10 | Not Detected |
| 1,4-Dichlorobenzene | 1.7 | 21 | 10 | 120 |
| alpha-Chlorotoluene | 1.7 | Not Detected | 8.8 | Not Detected |
| 1,2-Dichlorobenzene | 1.7 | Not Detected | 10 | Not Detected |
| 1,2,4-Trichlorobenzene | 8.6 | Not Detected | 63 | Not Detected |
| Hexachlorobutadiene | 8.6 | Not Detected | 91 | Not Detected |

E = Exceeds instrument calibration range.
J = Estimated value.

**Container Type: 6 Liter Summa Special**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 98 | 70-130 |
| Toluene-d8 | 99 | 70-130 |
| 4-Bromofluorobenzene | 96 | 70-130 |



0340

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: FF-4-022707**

**Lab ID#: 0703060B-15A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **y031807** | **Date of Collection: 2/27/07** | |
| **Dil. Factor:** | **17.1** | **Date of Analysis: 3/18/07 03:40 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 1.7 | Not Detected | 13 | Not Detected |
| Chlorobenzene | 1.7 | Not Detected | 7.9 | Not Detected |
| Ethyl Benzene | 1.7 | Not Detected | 7.4 | Not Detected |
| m,p-Xylene | 1.7 | Not Detected | 7.4 | Not Detected |
| o-Xylene | 1.7 | Not Detected | 7.4 | Not Detected |
| Styrene | 1.7 | Not Detected | 7.3 | Not Detected |
| Bromoform | 1.7 | Not Detected | 18 | Not Detected |
| Cumene | 1.7 | Not Detected | 8.4 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 1.7 | Not Detected | 12 | Not Detected |
| Propylbenzene | 1.7 | Not Detected | 8.4 | Not Detected |
| 4-Ethyltoluene | 1.7 | Not Detected | 8.4 | Not Detected |
| 1,3,5-Trimethylbenzene | 1.7 | Not Detected | 8.4 | Not Detected |
| 1,2,4-Trimethylbenzene | 1.7 | Not Detected | 8.4 | Not Detected |
| 1,3-Dichlorobenzene | 1.7 | Not Detected | 10 | Not Detected |
| 1,4-Dichlorobenzene | 1.7 | 21 | 10 | 120 |
| alpha-Chlorotoluene | 1.7 | Not Detected | 8.8 | Not Detected |
| 1,2-Dichlorobenzene | 1.7 | Not Detected | 10 | Not Detected |
| 1,2,4-Trichlorobenzene | 8.6 | Not Detected | 63 | Not Detected |
| Hexachlorobutadiene | 8.6 | Not Detected | 91 | Not Detected |

E = Exceeds instrument calibration range.
J = Estimated value.

**Container Type: 6 Liter Summa Special**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 98 | 70-130 |
| Toluene-d8 | 99 | 70-130 |
| 4-Bromofluorobenzene | 96 | 70-130 |



0340

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: FF-4-022707**

**Lab ID#: 0703060B-15B**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **y031807sim** | **Date of Collection:** | **2/27/07** |
| **Dil. Factor:** | **17.1** | **Date of Analysis:** | **3/18/07 03:40 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Carbon Tetrachloride | 0.34 | Not Detected | 2.2 | Not Detected |
| Trichloroethene | 0.34 | Not Detected | 1.8 | Not Detected |

**Container Type: 6 Liter Summa Special**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 100 | 70-130 |
| Toluene-d8 | 98 | 70-130 |
| 4-Bromofluorobenzene | 95 | 70-130 |

**SUMMARY OF THE ANALYTICAL DATA USABILITY**
**37211 Pizza Hut Site Characterization**

**Air Volatile Organic Analyses**
**Samples Collected February 27, 2007**
**Samples Received March 2, 2007**
**Sample Delivery Group: 0703060C**
**Laboratory Reference Numbers:**

| | |
|---|---|
| FF-5-022707 | 0703060-16A |
| FF-5-022707 | 0703060-16B |
| FF-DUP-022707 | 0703060-17A |
| FF-DUP-022707 | 0703060-17B |

Air samples were validated for analyses of volatile organics by the US EPA Region II checklist. Data were reviewed for usability according to the following criteria:

* - Data Completeness
* - GC/MS Tuning
* - Holding Times
* - Calibrations
* - Laboratory Blanks
  - Field Blank
  - Trip Blanks
  - Storage Blank
* - Surrogate Compound Recoveries
* - Internal Standard Recoveries
  - Matrix Spike / Matrix Spike Duplicate
* - Matrix Duplicate
* - Laboratory Control Sample
  - Instrument Detection Limits
* - Compound Identification
* - Compound Quantitation

* - Indicates that all criteria were met for this parameter.

**DATA USABILITY SUMMARY**

The laboratory's case narrative notes:

> *The results for each sample in this report were acquired from two separate data files originating from the sample analytical run. The two data files have the same base name and area differentiated with a "sin" extension on the SIM data file.*

The laboratory did not use the standard NYS DEC ASP reporting format. All of the required documentation was included in the data package.

The reported relative response factors of some of the compounds quantitated against the later internal standards were slightly different than those calculated during the data validation in the initial and continuing calibrations. The differences were not large enough to affect the end use of the data.

**Holding Times**

All samples were analyzed within 30 days of the date of collection.

**Surrogate Recoveries**

All recoveries were reported as within the 70% - 130% quality assurance limits

**Tunes**

No other problems were detected with the tunes associated with the samples of this delivery group.

**Calibrations**

The reported relative response factors of some of the compounds quantitated against the later internal standards were slightly different than those calculated during the data validation in the initial and continuing calibrations. The differences were not large enough to affect the end use of the data.

No other problems were found with the initial or continuing calibrations. All RSDs and percent differences were less than 30%.

All RRFs of the target compounds were greater than 0.05.

**Matrix Spike / Matrix Spike Duplicate**

A matrix spike and matrix spike duplicate were not analyzed with this sample delivery group.

**Matrix Duplicate**

A matrix duplicate was not analyzed with this sample delivery group.

**Laboratory Control Sample**

All recoveries were within the laboratory's reported quality control limits.

**Field Duplicate**

The field duplicate was not evaluated during the data validation.

**Method Blanks**

None of the target compounds were detected in any of the method blanks at concentrations above the PQLs.

**Holding Blank**

A holding blank was not analyzed with this sample delivery group.

**Internal Standard Areas and Retention Times**

All of the internal standard recoveries were within the 60% - 140% quality control limits .

**Instrument Detection Limits**

Instrument detection limits were not included the analytical package.

**Sample Results**

No other problems were found with the reported results of any of the samples of this delivery group.

**ANALYTICAL DATA VALIDATION WORKSHEETS**
**37211 Pizza Hut Site Characterization**

**Air Volatile Organic Analyses**
**Samples Collected February 27, 2007**
**Samples Received March 2, 2007**
**Sample Delivery Group: 0703060C**
**Laboratory Reference Numbers:**

| | |
|---|---|
| FF-5-022707 | 0703060-16A |
| FF-5-022707 | 0703060-16B |
| FF-DUP-022707 | 0703060-17A |
| FF-DUP-022707 | 0703060-17B |

## INITIAL CALIBRATION

**Instrument ID:** msdf.i
**Level:** Low
**Tune File ID:** y301605.d **Acceptable:** Yes **Time Requirements Met:** Yes
**Initial Calibration File ID:** y031613.d **Date:** 3/16/2007 **Page:**
**Associated Samples:** -16, -17

| | QC %RSD | STD %RSD | QC RRF | STD RRF | | QC %RSD | STD %RSD | QC RRF | STD RRF |
|---|---|---|---|---|---|---|---|---|---|
| Freon 11 | 30% | | >0.05 | | 1,3,5-Trimethylbenzene | 30% | | >0.05 | |
| Freon 114 | 30% | | >0.05 | | 1,2,4-Trimethylbenzene | 30% | | >0.05 | |
| Chloromethane | 30% | | >0.05 | | 1,3-Dichlorobenzene | 30% | | >0.05 | |
| Vinyl Chloride | 30% | | >0.05 | | 1,4-Dichlorobenzene | 30% | | >0.05 | |
| Bromomethane | 30% | | >0.05 | | alpha-Chlorotoluene | 30% | | >0.05 | |
| Chloroethane | 30% | | >0.05 | | 1,2-Dichlorobenzene | 30% | | >0.05 | |
| Freon 11 | 30% | | >0.05 | | 1,2,4-Trichlorobenzene | 30% | | >0.05 | |
| 1,1-Dichloroethene | 30% | | >0.05 | | Hexaclhorobutadiene | 30% | | >0.05 | |
| Freon 113 | 30% | | >0.05 | | Propylene | 30% | | >0.05 | |
| Methylene Chloride | 30% | | >0.05 | | 1,3-Butadiene | 30% | | >0.05 | |
| 1,1-Dichloroethane | 30% | | >0.05 | | Acetone | 30% | | >0.05 | |
| cis-1,2-Dichloroethene | 30% | | >0.05 | | Carbon Disulfide | 30% | | >0.05 | |
| Chloroform | 30% | | >0.05 | | 2-Propanol | 30% | | >0.05 | |
| 1,1,1-Trichloroethane | 30% | | >0.05 | | trans-1,2-Dichloroethene | 30% | | >0.05 | |
| Carbon Tetrachloride | 30% | | >0.05 | | Vinyl Acetate | 30% | | >0.05 | |
| Benzene | 30% | | >0.05 | | 2-Butanone | 30% | | >0.05 | |
| 1,2-Dichloroethane | 30% | | >0.05 | | Hexane | 30% | | >0.05 | |
| Trichloroethene | 30% | | >0.05 | | Tetrahydrofuran | 30% | | >0.05 | |
| 1,2-Dichloropropane | 30% | | >0.05 | | Cyclohexane | 30% | | >0.05 | |
| cis-1,3-Dichloropropene | 30% | | >0.05 | | 1,4-Dioxane | 30% | | >0.05 | |
| Toluene | 30% | | >0.05 | | Bromodichloromethane | 30% | | >0.05 | |
| trans-1,3-Dichloropropene | 30% | | >0.05 | | 4-Methyl-2-pentanone | 30% | | >0.05 | |
| 1,1,2-Trichloroethene | 30% | | >0.05 | | 2-Hexanone | 30% | | >0.05 | |
| 1,2-Dibromoethane (EDB) | 30% | | >0.05 | | Dibromochloromethane | 30% | | >0.05 | |
| Chlorobenzene | 30% | | >0.05 | | Bromoform | 30% | | >0.05 | |
| Ethylbenzene | 30% | | >0.05 | | 4-Ethyltoluene | 30% | | >0.05 | |
| m.p-Xylene | 30% | | >0.05 | | Ethanol | 30% | | >0.05 | |
| o-Xylene | 30% | | >0.05 | | Methyl tert-Butyl Ether | 30% | | >0.05 | |
| Styrene | 30% | | >0.05 | | Heptane | 30% | | >0.05 | |
| 1,1,2,2-Tetrachloroethane | 30% | | >0.05 | | Naphthalene | 30% | | >0.05 | |

All TCL Compounds %RSD < QC Limit: Yes
TCL Compounds %RSD between 30% and 60% (J - qualify) N/A
TCL Compounds %RSD between 60% and 90% (J - qualify) N/A
TCL Compounds %RSD > 90% (R - reject undetected / J - detected) N/A

**CALIBRATION VERIFICATION:**

| **Compound** | 1,1-Dichloroethene | | | | Trichloroethene | | | |
|---|---|---|---|---|---|---|---|---|
| | **Area x** | **Area IS** | **calc rrf** | **Rprtd rrf** | **Area x** | **Area IS** | **calc rrf** | **Rprtd rrf** |
| **PPB** | | | | | | | | |
| **0.1** | 2,075 | 299,733 | 0.692 | 0.692 | 5,798 | 1,030,526 | 0.563 | 0.563 |
| **0.5** | 8,576 | 302,428 | 0.567 | 0.567 | 24,645 | 1,049,647 | 0.470 | 0.470 |
| **2** | 33,821 | 292,094 | 0.579 | 0.579 | 97,572 | 1,046,884 | 0.466 | 0.476 |
| **10** | 198,241 | 311,000 | 0.637 | 0.637 | 532,001 | 1,086,829 | 0.489 | 0.498 |
| **20** | 353,566 | 309,674 | 0.571 | 0.571 | 1,037,230 | 1,051,349 | 0.493 | 0.496 |
| **40** | 706,989 | 304,941 | 0.580 | 0.580 | 2,048,009 | 1,053,231 | 0.486 | 0.487 |
| **Average** | | | 0.604 | 0.604 | | | 0.495 | 0.498 |
| | | | **Calc** | **Reported** | | | **Calc** | **Reported** |
| **%RSD** | | | 8.30 | 8.30% | | | 7.10 | 6.73% |

**VOLATILE ORGANICS**
**CONTINUING CALIBRATION**

**Instrument ID:** msdf.i
**Level:** Low
**Tune File ID:** y031801.d **Acceptable:** Yes **Time Requirements Met:** Yes
**Calibration File ID:** y031802.d **Date:** 3/17/2007 **Page:**
**Initial Calibration File ID:** y031613.d **Date:** 3/16/2007 **Page:**
**Associated Samples:** -16

| | QC %D | STD %D | QC RRF | STD RRF | | QC %D | STD %D | QC RRF | STD RRF |
|---|---|---|---|---|---|---|---|---|---|
| Freon 11 | <30% | | >0.05 | | 1,3,5-Trimethylbenzene | <30% | | >0.05 | |
| Freon 114 | <30% | | >0.05 | | 1,2,4-Trimethylbenzene | <30% | | >0.05 | |
| Chloromethane | <30% | | >0.05 | | 1,3-Dichlorobenzene | <30% | | >0.05 | |
| Vinyl Chloride | <30% | | >0.05 | | 1,4-Dichlorobenzene | <30% | | >0.05 | |
| Bromomethane | <30% | | >0.05 | | alpha-Chlorotoluene | <30% | | >0.05 | |
| Chloroethane | <30% | | >0.05 | | 1,2-Dichlorobenzene | <30% | | >0.05 | |
| Freon 11 | <30% | | >0.05 | | 1,2,4-Trichlorobenzene | <30% | | >0.05 | |
| 1,1-Dichloroethene | <30% | | >0.05 | | Hexaclhorobutadiene | <30% | | >0.05 | |
| Freon 113 | <30% | | >0.05 | | Propylene | <30% | | >0.05 | |
| Methylene Chloride | <30% | | >0.05 | | 1,3-Butadiene | <30% | | >0.05 | |
| 1,1-Dichloroethane | <30% | | >0.05 | | Acetone | <30% | | >0.05 | |
| cis-1,2-Dichloroethene | <30% | | >0.05 | | Carbon Disulfide | <30% | | >0.05 | |
| Chloroform | <30% | | >0.05 | | 2-Propanol | <30% | | >0.05 | |
| 1,1,1-Trichloroethane | <30% | | >0.05 | | trans-1,2-Dichloroethene | <30% | | >0.05 | |
| Carbon Tetrachloride | <30% | | >0.05 | | Vinyl Acetate | <30% | | >0.05 | |
| Benzene | <30% | | >0.05 | | 2-Butanone | <30% | | >0.05 | |
| 1,2-Dichloroethane | <30% | | >0.05 | | Hexane | <30% | | >0.05 | |
| Trichloroethene | <30% | | >0.05 | | Tetrahydrofuran | <30% | | >0.05 | |
| 1,2-Dichloropropane | <30% | | >0.05 | | Cyclohexane | <30% | | >0.05 | |
| cis-1,3-Dichloropropene | <30% | | >0.05 | | 1,4-Dioxane | <30% | | >0.05 | |
| Toluene | <30% | | >0.05 | | Bromodichloromethane | <30% | | >0.05 | |
| trans-1,3-Dichloropropene | <30% | | >0.05 | | 4-Methyl-2-pentanone | <30% | | >0.05 | |
| 1,1,2-Trichloroethene | <30% | | >0.05 | | 2-Hexanone | <30% | | >0.05 | |
| 1,2-Dibromoethane (EDB) | <30% | | >0.05 | | Dibromochloromethane | <30% | | >0.05 | |
| Chlorobenzene | <30% | | >0.05 | | Bromoform | <30% | | >0.05 | |
| Ethylbenzene | <30% | | >0.05 | | 4-Ethyltoluene | <30% | | >0.05 | |
| m.p-Xylene | <30% | | >0.05 | | Ethanol | <30% | | >0.05 | |
| o-Xylene | <30% | | >0.05 | | Methyl tert-Butyl Ether | <30% | | >0.05 | |
| Styrene | <30% | | >0.05 | | Heptane | <30% | | >0.05 | |
| 1,1,2,2-Tetrachloroethane | <30% | | >0.05 | | Naphthalene | <30% | | >0.05 | |

| | QC %D | STD %D | QC RRF | STD RRF |
|---|---|---|---|---|
| Surrogates: | | | | |
| Toluene-d8 | <30% | | >0.050 | |
| Bromofluorobenzene * | <30% | | >0.050 | |
| 1,2-Dichloroethane-d4 | <30% | | >0.050 | |

All TCL Compounds Average RRF > 0.050: yes

All TCL Compounds %D < QC Limit: Yes
TCL Compounds %D between 30% and 60% (J - qualify) N/A
TCL Compounds %D between 60% and 90% (J - qualify) N/A
TCL Compounds %D > 90% (R - reject undetected / J - detected) N/A

**CALIBRATION VERIFICATION:**

| **Compound** | Hexane | | | | Styrene | | | |
|---|---|---|---|---|---|---|---|---|
| | **Area x** | **Area IS** | **calc rrf** | **Rprtd rrf** | **Area x** | **Area IS** | **calc rrf** | **Rprtd rrf** |
| **PPB** | | | | | | | | |
| **5** | 354,843 | 310,813 | 2.283 | 2.283 | 722,286 | 1,046,603 | 1.380 | 1.380 |
| **% D** | | **Avg RRF** | **% D Calc** | **% D Reported** | | **Avg RRF** | **% D Calc** | **% D Reported** |
| | | 2.27932 | 0.18 | 0.175 | | 1.34943 | 2.28 | 2.28 |

**VOLATILE ORGANICS**
**CONTINUING CALIBRATION**

**Instrument ID:** msdf.i
**Level:** Low
**Tune File ID:** y031801.d **Acceptable:** Yes **Time Requirements Met:** Yes
**Calibration File ID:** y031802.d **Date:** 3/18/2007 **Page:** 678
**Initial Calibration File ID:** y031613.d **Date:** 3/16/2007 **Page:** 399
**Associated Samples:** -17

| | QC %D | STD %D | QC RRF | STD RRF | | QC %D | STD %D | QC RRF | STD RRF |
|---|---|---|---|---|---|---|---|---|---|
| Freon 11 | <30% | | >0.05 | | 1,3,5-Trimethylbenzene | <30% | | >0.05 | |
| Freon 114 | <30% | | >0.05 | | 1,2,4-Trimethylbenzene | <30% | | >0.05 | |
| Chloromethane | <30% | | >0.05 | | 1,3-Dichlorobenzene | <30% | | >0.05 | |
| Vinyl Chloride | <30% | | >0.05 | | 1,4-Dichlorobenzene | <30% | | >0.05 | |
| Bromomethane | <30% | | >0.05 | | alpha-Chlorotoluene | <30% | | >0.05 | |
| Chloroethane | <30% | | >0.05 | | 1,2-Dichlorobenzene | <30% | | >0.05 | |
| Freon 11 | <30% | | >0.05 | | 1,2,4-Trichlorobenzene | <30% | | >0.05 | |
| 1,1-Dichloroethene | <30% | | >0.05 | | Hexaclhorobutadiene | <30% | | >0.05 | |
| Freon 113 | <30% | | >0.05 | | Propylene | <30% | | >0.05 | |
| Methylene Chloride | <30% | | >0.05 | | 1,3-Butadiene | <30% | | >0.05 | |
| 1,1-Dichloroethane | <30% | | >0.05 | | Acetone | <30% | | >0.05 | |
| cis-1,2-Dichloroethene | <30% | | >0.05 | | Carbon Disulfide | <30% | | >0.05 | |
| Chloroform | <30% | | >0.05 | | 2-Propanol | <30% | | >0.05 | |
| 1,1,1-Trichloroethane | <30% | | >0.05 | | trans-1,2-Dichloroethene | <30% | | >0.05 | |
| Carbon Tetrachloride | <30% | | >0.05 | | Vinyl Acetate | <30% | | >0.05 | |
| Benzene | <30% | | >0.05 | | 2-Butanone | <30% | | >0.05 | |
| 1,2-Dichloroethane | <30% | | >0.05 | | Hexane | <30% | | >0.05 | |
| Trichloroethene | <30% | | >0.05 | | Tetrahydrofuran | <30% | | >0.05 | |
| 1,2-Dichloropropane | <30% | | >0.05 | | Cyclohexane | <30% | | >0.05 | |
| cis-1,3-Dichloropropene | <30% | | >0.05 | | 1,4-Dioxane | <30% | | >0.05 | |
| Toluene | <30% | | >0.05 | | Bromodichloromethane | <30% | | >0.05 | |
| trans-1,3-Dichloropropene | <30% | | >0.05 | | 4-Methyl-2-pentanone | <30% | | >0.05 | |
| 1,1,2-Trichloroethene | <30% | | >0.05 | | 2-Hexanone | <30% | | >0.05 | |
| 1,2-Dibromoethane (EDB) | <30% | | >0.05 | | Dibromochloromethane | <30% | | >0.05 | |
| Chlorobenzene | <30% | | >0.05 | | Bromoform | <30% | | >0.05 | |
| Ethylbenzene | <30% | | >0.05 | | 4-Ethyltoluene | <30% | | >0.05 | |
| m.p-Xylene | <30% | | >0.05 | | Ethanol | <30% | | >0.05 | |
| o-Xylene | <30% | | >0.05 | | Methyl tert-Butyl Ether | <30% | | >0.05 | |
| Styrene | <30% | | >0.05 | | Heptane | <30% | | >0.05 | |
| 1,1,2,2-Tetrachloroethane | <30% | | >0.05 | | Naphthalene | <30% | | >0.05 | |

| | QC %D | STD %D | QC RRF | STD RRF |
|---|---|---|---|---|
| Surrogates: | | | | |
| Toluene-d8 | <30% | | >0.050 | |
| Bromofluorobenzene * | <30% | | >0.050 | |
| 1,2-Dichloroethane-d4 | <30% | | >0.050 | |

All TCL Compounds Average RRF > 0.050: yes

All TCL Compounds %D < QC Limit: Yes
TCL Compounds %D between 30% and 60% (J - qualify) N/A
TCL Compounds %D between 60% and 90% (J - qualify) N/A
TCL Compounds %D > 90% (R - reject undetected / J - detected) N/A

**CALIBRATION VERIFICATION:**

| **Compound** | Benzene | | | | 1,2-Dichlorobenzene | | | |
|---|---|---|---|---|---|---|---|---|
| | **Area x** | **Area IS** | **calc rrf** | **Rprtd rrf** | **Area x** | **Area IS** | **calc rrf** | **Rprtd rrf** |
| **PPB** | | | | | | | | |
| **5** | 963,021 | 1,015,507 | 1.897 | 1.897 | 689,958 | 1,028,691 | 1.341 | 1.389 |
| **% D** | | **Avg RRF** | **% D** | **% D** | | **Avg RRF** | **% D** | **% D** |
| | | 1.83655 | **Calc** | **Reported** | | 1.38297 | **Calc** | **Reported** |
| | | | 3.27 | 3.27 | | | -3.00 | 0.44 |

## INITIAL CALIBRATION - LOW LEVEL

**Instrument ID:** **msdf.i**
**Level:** Low
**Tune File ID:** y301605.d **Acceptable:** Yes **Time Requirements Met:** Yes
**Initial Calibration File ID:** y031613.d **Date:** 3/16/2007 **Page:**
**Associated Samples:**

| | QC %RSD | STD %RSD | QC RRF | STD RRF | | QC %RSD | STD %RSD | QC RRF | STD RRF |
|---|---|---|---|---|---|---|---|---|---|
| Trichloroethene | <30 | | >0.010 | | Tetrachloroethylene | <30 | | >0.050 | |

| Surrogate: | QC %RSD | STD %RSD | QC RRF | STD RRF |
|---|---|---|---|---|
| 1-Bromo-4-Fluorobenzene | <30% | | >0.050 | |

All TCL Compounds Average RRF > 0.050: Yes
All TCL Compounds %D < QC Limit: Yes
TCL Compounds %D between 30% and 60% (J - qualify) N/A
TCL Compounds %D between 60% and 90% (J - qualify) N/A
TCL Compounds %D > 90% (R - reject undetected / J - detected) N/A

**CALIBRATION VERIFICATION:**

| **Compound** | Carbon Tetrachloride | | | | Trichloroethene | | | |
|---|---|---|---|---|---|---|---|---|
| **PPB** | | | | | | | | |
| **0.01** | | | #DIV/0! | NA | 623 | 1,091,740 | 0.571 | 0.57 |
| **0.02** | 1,669 | 247,414 | 3.373 | 3.373 | 1,170 | 1,084,019 | 0.540 | 0.64 |
| **0.05** | 4,082 | 242,186 | 3.371 | 3.371 | 3,000 | 1,045,748 | 0.574 | 0.574 |
| **0.10** | 8,371 | 259,912 | 3.221 | 3.220 | 6,018 | 1,101,714 | 0.546 | 0.546 |
| **0.50** | 38,764 | 261,950 | 2.960 | 2.960 | 26,969 | 1,109,259 | 0.486 | 0.486 |
| **2.00** | 162,857 | 246,965 | 3.297 | 3.297 | 107,091 | 1,089,727 | 0.491 | 0.491 |
| **10** | 935,302 | 271,526 | 3.445 | 3.445 | 578,831 | 1,128,965 | 0.513 | 0.513 |
| **20** | 1,876,165 | 256,220 | 3.661 | 3.661 | 1,127,136 | 1,121,700 | 0.502 | 0.502 |
| **Average** | | | 3.332 | 3.330 | | | 0.528 | 0.528 |
| | | | **Calc** | **Reported** | | | **Calc** | **Reported** |
| **%RSD** | | | 6.44% | 6.44% | | | 6.54% | 6.55% |

## VOLATILE ORGANICS
## CONTINUING CALIBRATION

**Instrument ID:** msdf.i
**Level:** Low
**Tune File ID:** y031801.d **Acceptable:** Yes **Time Requirements Met:** Yes
**Calibration File ID:** y031802.d **Date:** 3/17/2007 **Page:**
**Initial Calibration File ID:** y031613.d **Date:** 3/16/2007 **Page:** 671
**Associated Samples:** -06, -07, -09, -10, -11, -13, -14

**COMPOUND LIST**

| | QC %RSD | STD %RSD | QC RRF | STD RRF | | QC %RSD | STD %RSD | QC RRF | STD RRF |
|---|---|---|---|---|---|---|---|---|---|
| Carbon Tetrachloride | <30 | | >0.010 | | Trichloroethene | <30 | | >0.050 | |

| | QC %D | STD %D | QC RRF | STD RRF |
|---|---|---|---|---|
| Surrogate: | | | | |
| 1-Bromo-4-Fluorobenzene | <30% | | >0.050 | |

All TCL Compounds Average RRF > 0.050: Yes

All TCL Compounds %D < QC Limit: Yes
TCL Compounds %D between 25% and 50% (J - qualify) N/A
TCL Compounds %D between 50% and 90% (J - qualify) N/A
TCL Compounds %D > 90% (R - reject undetected / J - detected) N/A

**CALIBRATION VERIFICATION:**

| **Compound** Carbon Tetrachloride | Area x | Area IS | calc rrf | Rprtd rrf | Trichloroethene Area x | Area IS | calc rrf | Rprtd rrf |
|---|---|---|---|---|---|---|---|---|
| **PPB** | | | | | | | | |
| **5** | 470,334 | 267,562 | 3.516 | 3.516 | 289,872 | 1,119,616 | 0.518 | 0.518 |
| | | | | | | | | |
| **% D** | | **Avg RRF** | **% D** | **% D** | | **Avg RRF** | **% D** | **% D** |
| | | 3.33241 | **Calc** | **Reported** | | 0.528 | **Calc** | **Reported** |
| | | | 5.50 | 5.50 | | | -1.91 | 1.91 |

## VOLATILE ORGANICS
## CONTINUING CALIBRATION

**Instrument ID:** msdf.i
**Level:** Low

| | | | | | |
|---|---|---|---|---|---|
| **Tune File ID:** | y031801.d | **Acceptable:** | Yes | **Time Requirements Met:** | Yes |
| **Calibration File ID:** | y031802.d | **Date:** | 3/18/2007 | **Page:** | 693 |
| **Initial Calibration File ID:** | y031613.d | **Date:** | 3/16/2007 | **Page:** | 399 |
| **Associated Samples:** | -08, -12, -15 | | | | |

**COMPOUND LIST**

| | QC %RSD | STD %RSD | QC RRF | STD RRF | | QC %RSD | STD %RSD | QC RRF | STD RRF |
|---|---|---|---|---|---|---|---|---|---|
| Trichloroethene | <30 | | >0.010 | | Tetrachloroethylene | <30 | | >0.050 | |

| | QC %D | STD %D | QC RRF | STD RRF |
|---|---|---|---|---|
| Surrogate: | | | | |
| 1-Bromo-4-Fluorobenzene | <30% | | >0.050 | |

All TCL Compounds Average RRF > 0.050: Yes

All TCL Compounds %D < QC Limit: Yes

| | |
|---|---|
| TCL Compounds %D between 25% and 50% (J - qualify) | N/A |
| TCL Compounds %D between 50% and 90% (J - qualify) | N/A |
| TCL Compounds %D > 90% (R - reject undetected / J - detected) | N/A |

**CALIBRATION VERIFICATION:**

| **Compound** | Carbon Tetrachloride | | | | Trichloroethene | | | |
|---|---|---|---|---|---|---|---|---|
| | **Area x** | **Area IS** | **calc rrf** | **Rprtd rrf** | **Area x** | **Area IS** | **calc rrf** | **Rprtd rrf** |
| **PPB** | | | | | | | | |
| **5** | 452,096 | 244,866 | 3.693 | 3.693 | 276,274 | 1,087,190 | 0.508 | 0.508 |
| **% D** | | **Avg RRF** | **% D** | **% D** | | **Avg RRF** | **% D** | **% D** |
| | | 3.33241 | **Calc** | **Reported** | | 0.528 | **Calc** | **Reported** |
| | | | 10.81 | 10.81 | | | -3.72 | 3.72 |

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: FF-5-022707**

**Lab ID#: 0703060C-16A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **y031714** | **Date of Collection:** | **2/27/07** |
| **Dil. Factor:** | **1.58** | **Date of Analysis:** | **3/17/07 07:38 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Freon 12 | 0.16 | 0.52 | 0.78 | 2.6 |
| Freon 114 | 0.16 | Not Detected | 1.1 | Not Detected |
| Chloromethane | 0.16 | Not Detected | 0.33 | Not Detected |
| Vinyl Chloride | 0.16 | Not Detected | 0.40 | Not Detected |
| 1,3-Butadiene | 0.16 | 0.16 | 0.35 | 0.34 J |
| Bromomethane | 0.16 | Not Detected | 0.61 | Not Detected |
| Chloroethane | 0.16 | Not Detected | 0.42 | Not Detected |
| Freon 11 | 0.16 | 0.32 | 0.89 | 1.8 |
| Ethanol | 0.79 | 26 | 1.5 | 48 |
| Freon 113 | 0.16 | Not Detected | 1.2 | Not Detected |
| 1,1-Dichloroethene | 0.16 | Not Detected | 0.63 | Not Detected |
| Acetone | 0.79 | 40 | 1.9 | 95 |
| 2-Propanol | 0.79 | 1.7 | 1.9 | 4.3 |
| Carbon Disulfide | 0.79 | Not Detected | 2.5 | Not Detected |
| Methylene Chloride | 0.32 | 0.56 | 1.1 | 2.0 |
| Methyl tert-butyl ether | 0.16 | Not Detected | 0.57 | Not Detected |
| trans-1,2-Dichloroethene | 0.16 | Not Detected | 0.63 | Not Detected |
| Hexane | 0.16 | 1.6 | 0.56 | 5.7 |
| 1,1-Dichloroethane | 0.16 | Not Detected | 0.64 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 0.16 | 1.9 | 0.46 | 5.5 |
| cis-1,2-Dichloroethene | 0.16 | Not Detected | 0.63 | Not Detected |
| Tetrahydrofuran | 0.79 | Not Detected | 2.3 | Not Detected |
| Chloroform | 0.16 | Not Detected | 0.77 | Not Detected |
| 1,1,1-Trichloroethane | 0.16 | Not Detected | 0.86 | Not Detected |
| Cyclohexane | 0.16 | 0.34 | 0.54 | 1.2 |
| Benzene | 0.16 | 1.4 | 0.50 | 4.4 |
| 1,2-Dichloroethane | 0.16 | Not Detected | 0.64 | Not Detected |
| Heptane | 0.16 | 0.91 | 0.65 | 3.7 |
| 1,2-Dichloropropane | 0.16 | Not Detected | 0.73 | Not Detected |
| 1,4-Dioxane | 0.16 | Not Detected | 0.57 | Not Detected |
| Bromodichloromethane | 0.16 | Not Detected | 1.0 | Not Detected |
| cis-1,3-Dichloropropene | 0.16 | Not Detected | 0.72 | Not Detected |
| 4-Methyl-2-pentanone | 0.16 | 1.2 | 0.65 | 4.9 |
| Toluene | 0.16 | 5.4 | 0.60 | 20 |
| trans-1,3-Dichloropropene | 0.16 | Not Detected | 0.72 | Not Detected |
| 1,1,2-Trichloroethane | 0.16 | Not Detected | 0.86 | Not Detected |
| Tetrachloroethene | 0.16 | Not Detected | 1.1 | Not Detected |
| 2-Hexanone | 0.79 | Not Detected | 3.2 | Not Detected |
| Dibromochloromethane | 0.16 | Not Detected | 1.3 | Not Detected |

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: FF-5-022707**

**Lab ID#: 0703060C-16A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **y031714** | **Date of Collection: 2/27/07** | |
| **Dil. Factor:** | **1.58** | **Date of Analysis: 3/17/07 07:38 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 0.16 | Not Detected | 1.2 | Not Detected |
| Chlorobenzene | 0.16 | Not Detected | 0.73 | Not Detected |
| Ethyl Benzene | 0.16 | 0.67 | 0.69 | 2.9 |
| m,p-Xylene | 0.16 | 2.7 | 0.69 | 12 |
| o-Xylene | 0.16 | 0.90 | 0.69 | 3.9 |
| Styrene | 0.16 | 0.17 | 0.67 | 0.73 |
| Bromoform | 0.16 | Not Detected | 1.6 | Not Detected |
| Cumene | 0.16 | Not Detected | 0.78 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 0.16 | Not Detected | 1.1 | Not Detected |
| Propylbenzene | 0.16 | Not Detected | 0.78 | Not Detected |
| 4-Ethyltoluene | 0.16 | 0.72 | 0.78 | 3.5 |
| 1,3,5-Trimethylbenzene | 0.16 | 0.25 | 0.78 | 1.2 |
| 1,2,4-Trimethylbenzene | 0.16 | 0.91 | 0.78 | 4.5 |
| 1,3-Dichlorobenzene | 0.16 | Not Detected | 0.95 | Not Detected |
| 1,4-Dichlorobenzene | 0.16 | Not Detected | 0.95 | Not Detected |
| alpha-Chlorotoluene | 0.16 | Not Detected | 0.82 | Not Detected |
| 1,2-Dichlorobenzene | 0.16 | Not Detected | 0.95 | Not Detected |
| 1,2,4-Trichlorobenzene | 0.79 | Not Detected | 5.9 | Not Detected |
| Hexachlorobutadiene | 0.79 | Not Detected | 8.4 | Not Detected |

J = Estimated value.

**Container Type: 6 Liter Summa Special**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 93 | 70-130 |
| Toluene-d8 | 99 | 70-130 |
| 4-Bromofluorobenzene | 98 | 70-130 |

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: FF-5-022707**

**Lab ID#: 0703060C-16B**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **y031714sim** | **Date of Collection: 2/27/07** | |
| **Dil. Factor:** | **1.58** | **Date of Analysis: 3/17/07 07:38 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Carbon Tetrachloride | 0.032 | 0.089 | 0.20 | 0.56 |
| Trichloroethene | 0.032 | Not Detected | 0.17 | Not Detected |

**Container Type: 6 Liter Summa Special**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 104 | 70-130 |
| Toluene-d8 | 99 | 70-130 |
| 4-Bromofluorobenzene | 97 | 70-130 |

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: FF-DUP-022707**

**Lab ID#: 0703060C-17A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **y031806** | **Date of Collection: 2/27/07** | |
| **Dil. Factor:** | **1.27** | **Date of Analysis: 3/18/07 03:03 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Freon 12 | 0.13 | 0.54 | 0.63 | 2.6 |
| Freon 114 | 0.13 | Not Detected | 0.89 | Not Detected |
| Chloromethane | 0.13 | Not Detected | 0.26 | Not Detected |
| Vinyl Chloride | 0.13 | Not Detected | 0.32 | Not Detected |
| 1,3-Butadiene | 0.13 | Not Detected | 0.28 | Not Detected |
| Bromomethane | 0.13 | Not Detected | 0.49 | Not Detected |
| Chloroethane | 0.13 | Not Detected | 0.34 | Not Detected |
| Freon 11 | 0.13 | 0.25 | 0.71 | 1.4 |
| Ethanol | 0.64 | 5.7 | 1.2 | 11 |
| Freon 113 | 0.13 | Not Detected | 0.97 | Not Detected |
| 1,1-Dichloroethene | 0.13 | Not Detected | 0.50 | Not Detected |
| Acetone | 0.64 | 5.2 | 1.5 | 12 |
| 2-Propanol | 0.64 | Not Detected | 1.6 | Not Detected |
| Carbon Disulfide | 0.64 | Not Detected | 2.0 | Not Detected |
| Methylene Chloride | 0.25 | Not Detected | 0.88 | Not Detected |
| Methyl tert-butyl ether | 0.13 | Not Detected | 0.46 | Not Detected |
| trans-1,2-Dichloroethene | 0.13 | Not Detected | 0.50 | Not Detected |
| Hexane | 0.13 | 0.79 | 0.45 | 2.8 |
| 1,1-Dichloroethane | 0.13 | Not Detected | 0.51 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 0.13 | 0.88 | 0.37 | 2.6 |
| cis-1,2-Dichloroethene | 0.13 | Not Detected | 0.50 | Not Detected |
| Tetrahydrofuran | 0.64 | Not Detected | 1.9 | Not Detected |
| Chloroform | 0.13 | Not Detected | 0.62 | Not Detected |
| 1,1,1-Trichloroethane | 0.13 | Not Detected | 0.69 | Not Detected |
| Cyclohexane | 0.13 | 0.20 | 0.44 | 0.68 |
| Benzene | 0.13 | 0.76 | 0.40 | 2.4 |
| 1,2-Dichloroethane | 0.13 | Not Detected | 0.51 | Not Detected |
| Heptane | 0.13 | 0.24 | 0.52 | 0.99 |
| 1,2-Dichloropropane | 0.13 | Not Detected | 0.59 | Not Detected |
| 1,4-Dioxane | 0.13 | Not Detected | 0.46 | Not Detected |
| Bromodichloromethane | 0.13 | Not Detected | 0.85 | Not Detected |
| cis-1,3-Dichloropropene | 0.13 | Not Detected | 0.58 | Not Detected |
| 4-Methyl-2-pentanone | 0.13 | Not Detected | 0.52 | Not Detected |
| Toluene | 0.13 | 1.4 | 0.48 | 5.3 |
| trans-1,3-Dichloropropene | 0.13 | Not Detected | 0.58 | Not Detected |
| 1,1,2-Trichloroethane | 0.13 | Not Detected | 0.69 | Not Detected |
| Tetrachloroethene | 0.13 | Not Detected | 0.86 | Not Detected |
| 2-Hexanone | 0.64 | Not Detected | 2.6 | Not Detected |
| Dibromochloromethane | 0.13 | Not Detected | 1.1 | Not Detected |

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: FF-DUP-022707**

**Lab ID#: 0703060C-17A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **y031806** | **Date of Collection: 2/27/07** | |
| **Dil. Factor:** | **1.27** | **Date of Analysis: 3/18/07 03:03 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | 0.13 | Not Detected | 0.98 | Not Detected |
| Chlorobenzene | 0.13 | Not Detected | 0.58 | Not Detected |
| Ethyl Benzene | 0.13 | 0.24 | 0.55 | 1.0 |
| m,p-Xylene | 0.13 | 0.70 | 0.55 | 3.0 |
| o-Xylene | 0.13 | 0.31 | 0.55 | 1.3 |
| Styrene | 0.13 | Not Detected | 0.54 | Not Detected |
| Bromoform | 0.13 | Not Detected | 1.3 | Not Detected |
| Cumene | 0.13 | Not Detected | 0.62 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 0.13 | Not Detected | 0.87 | Not Detected |
| Propylbenzene | 0.13 | 0.16 | 0.62 | 0.81 |
| 4-Ethyltoluene | 0.13 | 0.82 | 0.62 | 4.0 |
| 1,3,5-Trimethylbenzene | 0.13 | 0.23 | 0.62 | 1.1 |
| 1,2,4-Trimethylbenzene | 0.13 | 0.60 | 0.62 | 2.9 |
| 1,3-Dichlorobenzene | 0.13 | Not Detected | 0.76 | Not Detected |
| 1,4-Dichlorobenzene | 0.13 | Not Detected | 0.76 | Not Detected |
| alpha-Chlorotoluene | 0.13 | Not Detected | 0.66 | Not Detected |
| 1,2-Dichlorobenzene | 0.13 | Not Detected | 0.76 | Not Detected |
| 1,2,4-Trichlorobenzene | 0.64 | Not Detected | 4.7 | Not Detected |
| Hexachlorobutadiene | 0.64 | Not Detected | 6.8 | Not Detected |

**Container Type: 6 Liter Summa Special**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 96 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 99 | 70-130 |

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**Client Sample ID: FF-DUP-022707**

**Lab ID#: 0703060C-17B**

**MODIFIED EPA METHOD TO-15 GC/MS SIM**

| | | | |
|---|---|---|---|
| **File Name:** | **y031806sim** | **Date of Collection:** | **2/27/07** |
| **Dil. Factor:** | **1.27** | **Date of Analysis:** | **3/18/07 03:03 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (uG/m3) | Amount (uG/m3) |
|---|---|---|---|---|
| Carbon Tetrachloride | 0.025 | 0.088 | 0.16 | 0.55 |
| Trichloroethene | 0.025 | 0.036 | 0.14 | 0.20 |

**Container Type: 6 Liter Summa Special**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 105 | 70-130 |
| Toluene-d8 | 98 | 70-130 |
| 4-Bromofluorobenzene | 97 | 70-130 |

**Attachment C**

# Building Surveys and Product Inventories

O'BRIEN & GERE

# Multiple Vapor Intrusion Sampling Form

Project # 37211
Project Name Pizza Hut
Date 2/27/07
Collector C. Finke

Structure Location
[redacted]
PID/FID meter ID NYSDEC Unit 150764
Sample Duration (Intended) 24 Hr

Sample Locations
B-1 - Basement
SS-1 - Basement
FF-1 - On filing cabinet on 1st fl.

| Basement Indoor Air Sample | | Sub-structure Sample | | Circle Sample Type: (Indoor Air) SS-DUP Ambient IA-DUP 1st Fl. |
|---|---|---|---|---|
| Sample ID | B-1-022707 | Sample ID | SS-1-022707 | FF-1-022707 |
| Canister ID | 9923 | Canister ID | 95611 | 4227 |
| Flow Controller ID | 100-11 | Flow Controller ID | 6971 | ~~6969~~ 6962 |
| Date/Time start | 2/27/07 0948 | Date/Time start | 2/27/07 0948 | 2/27/07 1003 |
| Date/Time end | 2/28/07 0940 | Date/Time end | 2/28/07 0940 | 2/27/07 0955 |
| Gauge prior to start | 1.5" Hg | Gauge prior to start | 0" Hg | 0" Hg |
| Start vacuum | 730" | Start vacuum | 29" | 30" |
| End vacuum | 3.5" | End vacuum | 12" | 13" |
| Complete all that apply: | | Complete all that apply: | | Complete all that apply: |
| Air temperature (°F) | ~59° | Air temperature (°F) | ~59° | Air temperature (°F) ~70° |
| PID/FID reading | 0 ppb | PID/FID reading | NA | PID/FID reading Up to 25 ppm |
| in. tubing used | No | tubing used | 3.5 ft | in. tubing used No |
| Tubing purged? | NA | Tubing purged? | Yes - 25cc | Tubing purged? NA |
| For indoor location: | | For indoor location: | | ~~For outdoor location:~~ |
| Noticeable odor | Yes - Damp | Noticeable odor | Yes - Damp | Noticeable odor Yes - acetone? cigarette smoke |
| Intake height above floor (in) | 36" | Floor slab depth | 2 1/4" | Distance to road (ft) |
| Floor surface type | Concrete | Intake depth below floor (in) | 1/4" | Direction to closest building (degrees) |
| Room | Basement | Floor surface type | Concrete | Distance to closest building (ft) |
| Story/level | Lowest | Room | Basement | Intake height above ~~ground level~~ floor (in) 36" |
| | - | Story/level | Lowest | - |

Building Survey and Chemical Inventory Form Completed? Yes
Photographs Taken? Yes

Comments: Cigarette smoke and cleaning fluids used on 1st fl. resulted in high PID readings

Analytical method required TO-15
Laboratory used Air Toxics

**NEW YORK STATE DEPARTMENT OF HEALTH**
**INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY**
**CENTER FOR ENVIRONMENTAL HEALTH**

This form must be completed for each residence involved in indoor air testing.

Preparer's Name JASON PELTON Date/Time Prepared 2/27/07 0930

Preparer's Affiliation NYSDOT Phone No. 402-9818

Purpose of Investigation PIZZA HUT OFF-SITE SITE CHARACTERIZATION

**1. OCCUPANT:**

**Interviewed:** (Y) N

Last Name: [redacted] First Name: [redacted]

Address: [redacted]

County: ERIE

Home Phone: [redacted] Office Phone: [redacted]

Number of Occupants/persons at this location N/A Age of Occupants N/A

**2. OWNER OR LANDLORD:** (Check if same as occupant X )

**Interviewed: Y / N**

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

**3. BUILDING CHARACTERISTICS**

**Type of Building:** (Circle appropriate response)

| | | |
|---|---|---|
| Residential | School | (Commercial/Multi-use) |
| Industrial | Church | Other: _____ |

**If the property is residential, type?** (Circle appropriate response)

| | | |
|---|---|---|
| Ranch | 2-Family | 3-Family |
| Raised Ranch | Split Level | Colonial |
| Cape Cod | Contemporary | Mobile Home |
| Duplex | Apartment House | Townhouses/Condos |
| Modular | Log Home | Other: |

**If multiple units, how many?** _____

**If the property is commercial, type?** PRINTING - [redacted]

Business Type(s) PRINTING

Does it include residences (i.e., multi-use)? (Y) / N If yes, how many? 4 APARTMENTS ON 2ND FLOOR

**Other characteristics:**

Number of floors 3 FLOORS + BASEMENT Building age ~85 YEARS OLD, RENOVATED IN 1980

Is the building insulated? (Y) / N PARTIALLY How air tight? Tight / (Average) / Not Tight

**4. AIRFLOW**

**Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:**

Airflow between floors

N/A

Airflow near source

NA

Outdoor air infiltration

NA

Infiltration into air ducts

NA

**5. BASEMENT AND CONSTRUCTION CHARACTERISTICS** (Circle all that apply)

| | | | | |
|---|---|---|---|---|
| **a. Above grade construction:** | wood frame | concrete | stone | brick |
| **b. Basement type:** | full | crawlspace | slab | other _____ |
| **c. Basement floor:** | concrete | dirt | stone | other _____ |
| **d. Basement floor:** | uncovered | covered | covered with _____ | |
| **e. Concrete floor:** | unsealed | sealed | sealed with _____ | |
| **f. Foundation walls:** | poured | block | stone | other _____ |
| **g. Foundation walls:** | unsealed | sealed | sealed with _____ | |
| **h. The basement is:** | wet | damp | dry | moldy |
| **i. The basement is:** | finished | unfinished | partially finished | |
| **j. Sump present?** | Y / N | | | |
| **k. Water in sump?** | Y / N / not applicable | | | |

**Basement/Lowest level depth below grade:** 6 (feet)

**Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)**

STONE WALLS, CRACKS IN BASEMENT WALLS

**6. HEATING, VENTING and AIR CONDITIONING** (Circle all that apply)

**Type of heating system(s) used in this building: (circle all that apply – note primary)**

EACH APT. HAS OWN FURNACE

| | | | |
|---|---|---|---|
| Hot air circulation | Heat pump | Hot water baseboard | |
| Space Heaters | Stream radiation | Radiant floor | |
| Electric baseboard | Wood stove | Outdoor wood boiler | Other _____ |

**The primary type of fuel used is:**

| | | |
|---|---|---|
| Natural Gas | Fuel Oil | Kerosene |
| Electric | Propane | Solar |
| Wood | Coal | |

**Domestic hot water tank fueled by:** NATURAL GAS

**Boiler/furnace located in:** Basement Outdoors Main Floor Other _____

**Air conditioning:** Central Air Window units Open Windows None

ON FIRST FLOOR

**Are there air distribution ducts present?** (Y) N

**Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.**

HIDDEN IN PANELS (DROP CEILING)

## 7. OCCUPANCY

**Is basement/lowest level occupied?** Full-time Occasionally Seldom (Almost Never)

| **Level** | **General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)** |
|---|---|
| Basement | STORAGE, UTILITIES |
| 1st Floor | BATHROOM, OFFICE, PRINTING OPERATIONS |
| 2nd Floor | APARTMENT UNITS (2) |
| 3rd Floor | APARTMENT UNITS (2) |
| 4th Floor | N/A |

## 8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

**a. Is there an attached garage?** Y / (N)

**b. Does the garage have a separate heating unit?** Y / N (NA)

**c. Are petroleum-powered machines or vehicles stored in the garage** (e.g., lawnmower, atv, car) Y / N / (NA) Please specify_____

**d. Has the building ever had a fire?** Y (N) When?_____

**e. Is a kerosene or unvented gas space heater present?** Y / (N) Where?_____

**f. Is there a workshop or hobby/craft area?** Y (N) Where & Type?_____

**g. Is there smoking in the building?** (Y) N How frequently? DAILY

**h. Have cleaning products been used recently?** (Y) N When & Type? FLOOR CLEANER

**i. Have cosmetic products been used recently?** Y (N) When & Type?_____

**j. Has painting/staining been done in the last 6 months?** Y / (N) Where & When? _____

**k. Is there new carpet, drapes or other textiles?** Y / (N) Where & When? _____

**l. Have air fresheners been used recently?** (Y) N When & Type? SPRAY IN OFFICES, OCC.

**m. Is there a kitchen exhaust fan?** Y / N If yes, where vented? N/A

**n. Is there a bathroom exhaust fan?** (Y) N If yes, where vented? OUTSIDE

**o. Is there a clothes dryer?** Y / N If yes, is it vented outside? Y / N

**p. Has there been a pesticide application?** Y / (N) When & Type? _____

**Are there odors in the building?** Y / (N)
If yes, please describe: _____

**Do any of the building occupants use solvents at work?** (Y) N YES
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist

If yes, what types of solvents are used? INK, _____

If yes, are their clothes washed at work? Y / N

**Do any of the building occupants regularly use or work at a dry-cleaning service?** (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly) (No)
Yes, use dry-cleaning infrequently (monthly or less) Unknown
Yes, work at a dry-cleaning service

**Is there a radon mitigation system for the building/structure?** Y (N) Date of Installation: _____
**Is the system active or passive?** Active/Passive

**9. WATER AND SEWAGE**

**Water Supply:** (Public Water) Drilled Well Driven Well Dug Well Other: _____

**Sewage Disposal:** (Public Sewer) Septic Tank Leach Field Dry Well Other: _____

**10. RELOCATION INFORMATION (for oil spill residential emergency)**

**a. Provide reasons why relocation is recommended:** N/A

**b. Residents choose to:** remain in home relocate to friends/family relocate to hotel/motel

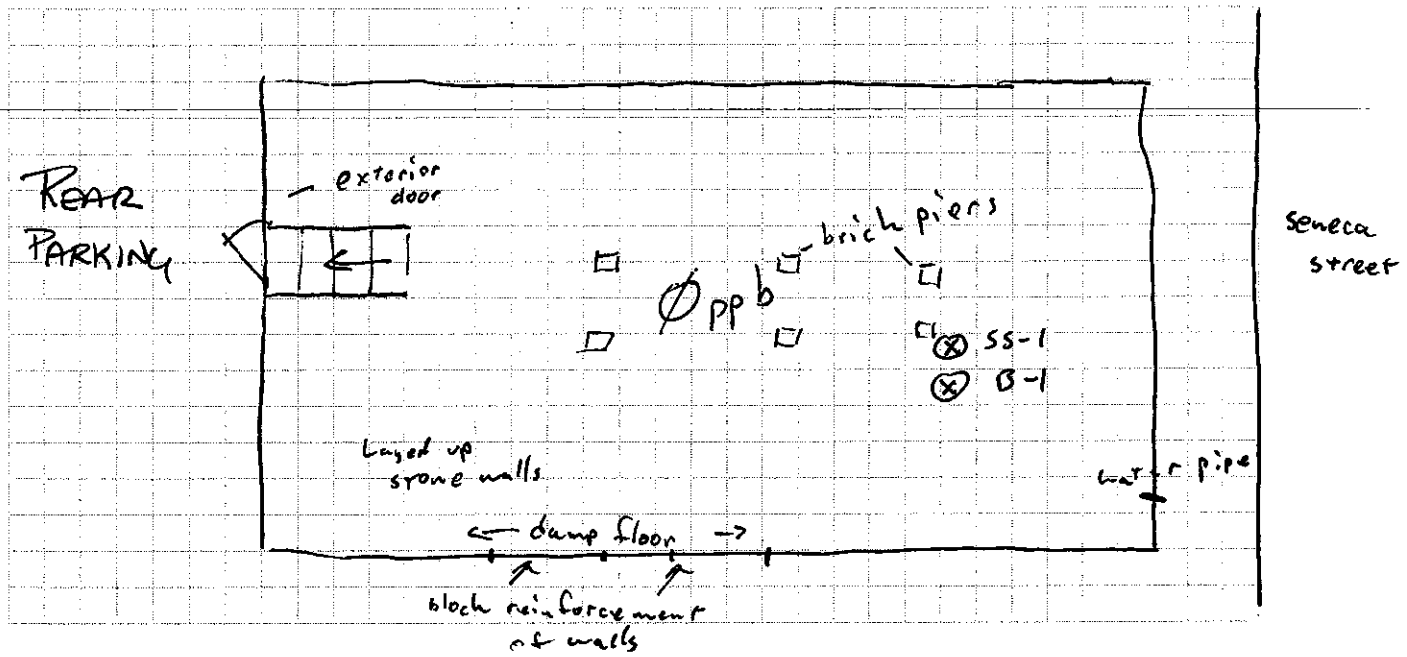
**c. Responsibility for costs associated with reimbursement explained?** Y / N

**d. Relocation package provided and explained to residents?** Y / N

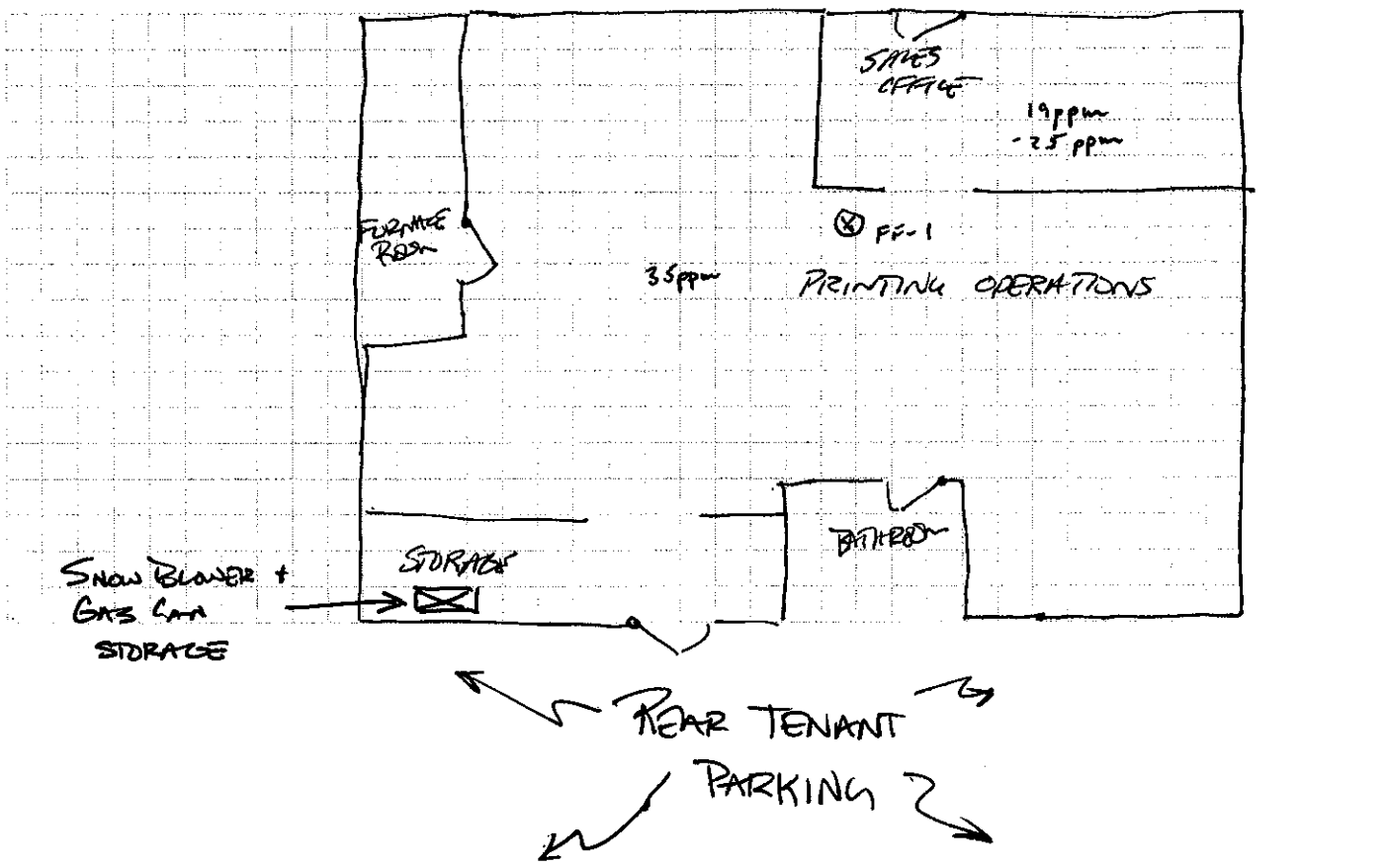
## 11. FLOOR PLANS

**Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.**

**Basement:**



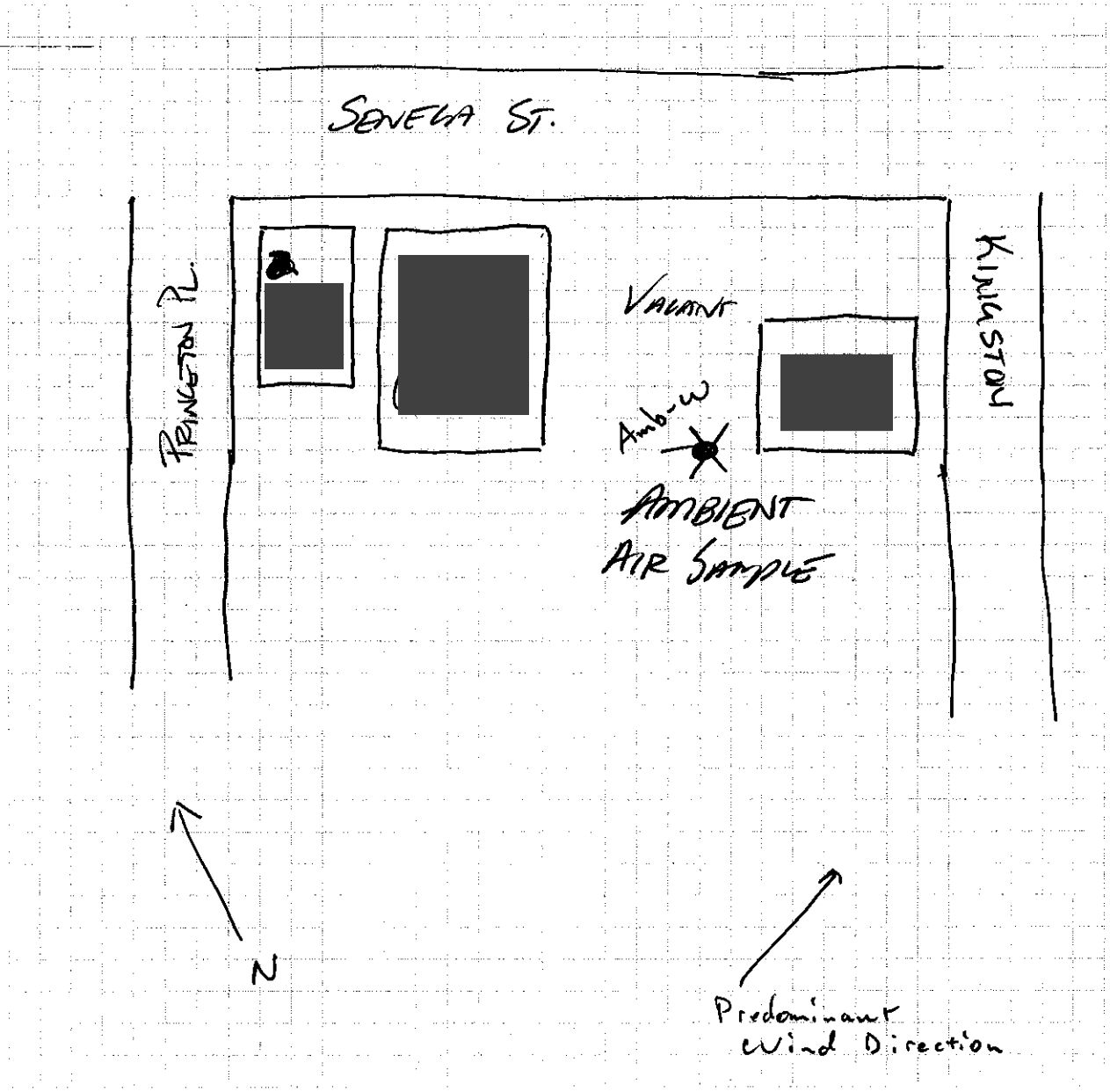

**First Floor:**



**12. OUTDOOR PLOT**

**Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.**

**Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.**



**13. PRODUCT INVENTORY FORM**

**Make & Model of field instrument used:** ~~AL~~ PPB RAE PLUS

**List specific products found in the residence that have the potential to affect indoor air quality.**

| Location | Product Description | Size (units) | Condition* | Chemical Ingredients | Field Instrument Reading (units) | Photo ** Y / N |
|---|---|---|---|---|---|---|
| FF | GRAPHLINE | 1 GAL | U | NOT LISTED 800-998-3200 | | |
| ↓ | ROLL CLEANER BAUMFOLDER | 1 QT | U | MINERAL SPIRITS | | |
| | VANSON SMOOTH-LITH | 32 OZ | U | NOT LISTED - TO REDUCE TACK IN INK | | |
| | LIQUID LUBRICANT SILICONE SPRAY | 11 OZ (3) | U | PETROLEUM DISTILLATES, NAPHTHENIC OIL | | |
| | WD40 | 8OZ (2) | U | PETROLEUM DISTILLATES | | |
| FF (BACK STORAGE) | GAS CAN + SNOW BLOWER | 2 (GAL) | U | GASOLINE | | |
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* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

O'BRIEN & GERE

# Multiple Vapor Intrusion Sampling Form

Project # 37211
Project Name Pizza Hut
Date 2/27/07
Collector C. Fiske

Structure Location
[redacted]
PID/FID meter ID NYSDEC Unit 150764
Sample Duration (Intended) 24

Sample Locations
Sub slab - North end of basement
Base. air - " " " "
FF. air - On shelf at top of stairs to basement 1st Fl.

| Basement Indoor Air Sample | | Sub-structure Sample | | Circle Sample Type: Indoor Air SS-DUP Ambient IA-DUP | |
|---|---|---|---|---|---|
| Sample ID | B-4-022707 | Sample ID | SS-4-022707 | Sample ID | FF-4-022707 |
| Canister ID | 4179 | Canister ID | 3728 | Canister ID | 35972 |
| Flow Controller ID | 03-55 | Flow Controller ID | 6024 | Flow Controller ID | 6021 |
| Date/Time start | 2/27/07 1450 | Date/Time start | 2/27/07 1450 | Date/Time start | 2/27/07 1459 |
| Date/Time end | 2/28/07 1405 | Date/Time end | 2/28/07 1405 | Date/Time end | 2/28/07 1406 |
| Gauge prior to start | 0 " | Gauge prior to start | 0 " | Gauge prior to start | 0 " |
| Start vacuum | 30 " | Start vacuum | 30 " | Start vacuum | 770 |
| End vacuum | 5 " | End vacuum | 5 " | End vacuum | 7 " |
| Complete all that apply: | | Complete all that apply: | | Complete all that apply: | |
| Air temperature (°F) | ~64° | Air temperature (°F) | ~64° | Air temperature (°F) | ~72° |
| PID/FID reading | ~250 ppb | PID/FID reading | NA | PID/FID reading | ~250 ppb |
| in. tubing used | None | in. tubing used | 3.5' | in. tubing used | None |
| Tubing purged? | - | Tubing purged? | 30 cc | Tubing purged? | NA |
| For indoor location: | | For indoor location: | | For outdoor location: | |
| Noticeable odor | No | Noticeable odor | No | Noticeable odor | |
| Intake height above floor (in) | 36 " | Floor slab depth | 3.5 " | Distance to road (ft) | |
| Floor surface type | Concrete | Intake depth below floor (in) | 1/4 " | Direction to closest building (degrees) | |
| Room | East end of basement | Floor surface type | concrete | Distance to closest building (ft) | |
| Story/level | Basement | Room | East end of Basement | Intake height above ground level (in) | |
| | | Story/level | Basement | | |

7 ft above ground level

Building Survey and Chemical Inventory Form Completed? Yes
Photographs Taken? Yes

Comments: Leaking drain pipe in middle of basement leaking what appears to be grease onto basement floor. Standing water in perimeter drain

Analytical method required TO 15
Laboratory used Air Toxics

OSR – 3

**NEW YORK STATE DEPARTMENT OF HEALTH**
**INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY**
**CENTER FOR ENVIRONMENTAL HEALTH**

This form must be completed for each residence involved in indoor air testing.

Preparer's Name JASON PELTON Date/Time Prepared 2/27/07 1515

Preparer's Affiliation NYSDEC Phone No. 402-9818

Purpose of Investigation PIZZA HUT OFF-SITE SITE CHARACTERIZATION

**1. OCCUPANT:**

**Interviewed:** (Y) N

Last Name: [redacted] First Name: [redacted]

Address: [redacted]

County: ERIE

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location 2 Age of Occupants N/A

**2. OWNER OR LANDLORD:** (Check if same as occupant X)

**Interviewed:** (Y) N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

**3. BUILDING CHARACTERISTICS**

**Type of Building:** (Circle appropriate response)

| | | |
|---|---|---|
| Residential | School | (Commercial/Multi-use) |
| Industrial | Church | Other: _____ |

**If the property is residential, type?** (Circle appropriate response)

| | | |
|---|---|---|
| Ranch | 2-Family | 3-Family |
| Raised Ranch | Split Level | Colonial |
| Cape Cod | Contemporary | Mobile Home |
| Duplex | Apartment House | Townhouses/Condos |
| Modular | Log Home | Other: 2 story house converted to Restaurant with attached rear. Rear is addition to restaurant w/seating. |

**If multiple units, how many?** _____

**If the property is commercial, type?** [redacted]

Business Type(s) [redacted] RESTAURANT

Does it include residences (i.e., multi-use)? ~~Y~~ / N If yes, how many? ~~1~~

**Other characteristics:**

Number of floors 2 Building age _____

Is the building insulated? (Y) / N How air tight? Tight / (Average) / Not Tight

## 4. AIRFLOW

**Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:**

Airflow between floors

N/A

Airflow near source

NA

Outdoor air infiltration

NA

Infiltration into air ducts

NA

**5. BASEMENT AND CONSTRUCTION CHARACTERISTICS** (Circle all that apply)

| | | | | |
|---|---|---|---|---|
| **a. Above grade construction:** | (wood frame) | concrete | stone | brick |
| **b. Basement type:** | (full) | crawlspace | slab | other _____ |
| **c. Basement floor:** | (concrete) | dirt | stone | other _____ |
| **d. Basement floor:** | (uncovered) | covered | covered with _____ | |
| **e. Concrete floor:** | (unsealed) | sealed | sealed with _____ | |
| **f. Foundation walls:** | poured | block | (stone) | other STONE WITH CEMENT |
| **g. Foundation walls:** | (unsealed) | sealed | sealed with _____ | |
| **h. The basement is:** | wet | (damp) | dry | moldy |
| **i. The basement is:** | finished | (unfinished) | partially finished | |
| **j. Sump present?** | (Y) / N | | | |
| **k. Water in sump?** | (Y) N / not applicable | | | |

**Basement/Lowest level depth below grade:** 6 (feet)

**Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)**

SUMP, STONE FOUNDATION WALLS, FLOOR CRACKS

**6. HEATING, VENTING and AIR CONDITIONING** (Circle all that apply)

**Type of heating system(s) used in this building: (circle all that apply – note primary)**

| | | | |
|---|---|---|---|
| (Hot air circulation) | Heat pump | Hot water baseboard | |
| ~~Space Heaters~~ | Stream radiation | Radiant floor | |
| Electric baseboard | Wood stove | Outdoor wood boiler | Other _____ |

**The primary type of fuel used is:**

| | | |
|---|---|---|
| (Natural Gas) | Fuel Oil | Kerosene |
| Electric | Propane | Solar |
| Wood | Coal | |

**Domestic hot water tank fueled by:** NATURAL GAS Hot water - Nat. Gas

**Boiler/furnace located in:** Basement Outdoors Main Floor Other in basement

**Air conditioning:** (Central Air) Window units Open Windows None

**Are there air distribution ducts present?** (Y) N

**Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.**

Ducts are hidden behind finished walls

## 7. OCCUPANCY

**Is basement/lowest level occupied?** Full-time Occasionally (Seldom) Almost Never

| **Level** | **General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)** |
|---|---|
| Basement | STORAGE OF ALCOHOL FOR BAR + RESTAURANT SUPPLIES |
| 1st Floor | BAR, RESTAURANT, BATHROOMS, KITCHEN |
| 2nd Floor | |
| 3rd Floor | |
| 4th Floor | |

## 8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

**a. Is there an attached garage?** Y / (N)

**b. Does the garage have a separate heating unit?** Y / N / (NA)

**c. Are petroleum-powered machines or vehicles stored in the garage** (e.g., lawnmower, atv, car) Y / N / (NA) Please specify _____

**d. Has the building ever had a fire?** Y / (N) When? ~ Approx 8 yrs? 1998? there was fire next door

**e. Is a kerosene or unvented gas space heater present?** Y / (N) Where? - vacant lot

**f. Is there a workshop or hobby/craft area?** Y / (N) Where & Type? _____

**g. Is there smoking in the building?** Y / N How frequently? _____

**h. Have cleaning products been used recently?** (Y) N When & Type? STANDARD CLEANING / DAILY

**i. Have cosmetic products been used recently?** Y / (N) When & Type? _____

**j. Has painting/staining been done in the last 6 months?** Y / (N) Where & When? _____

**k. Is there new carpet, drapes or other textiles?** Y / N Where & When? New carpet ~1 yr old in rear addition

**l. Have air fresheners been used recently?** Y / (N) When & Type? _____

**m. Is there a kitchen exhaust fan?** (Y) / N If yes, where vented? Not used

**n. Is there a bathroom exhaust fan?** Y / (N) If yes, where vented? _____

**o. Is there a clothes dryer?** Y / (N) If yes, is it vented outside? Y / N

**p. Has there been a pesticide application?** Y / (N) When & Type? _____

**Are there odors in the building?** (Y) / N
If yes, please describe: Typical cooking

**Do any of the building occupants use solvents at work?** Y / (N)
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Y / (N)

**Do any of the building occupants regularly use or work at a dry-cleaning service?** (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly) — No NA
Yes, use dry-cleaning infrequently (monthly or less) — Unknown
Yes, work at a dry-cleaning service

**Is there a radon mitigation system for the building/structure?** Y / (N) Date of Installation: _____
**Is the system active or passive?** Active/Passive

**9. WATER AND SEWAGE**

**Water Supply:** (Public Water) Drilled Well Driven Well Dug Well Other: _____

**Sewage Disposal:** (Public Sewer) Septic Tank Leach Field Dry Well Other: _____

**10. RELOCATION INFORMATION (for oil spill residential emergency)**

**a. Provide reasons why relocation is recommended:** _____

**b. Residents choose to:** remain in home relocate to friends/family relocate to hotel/motel

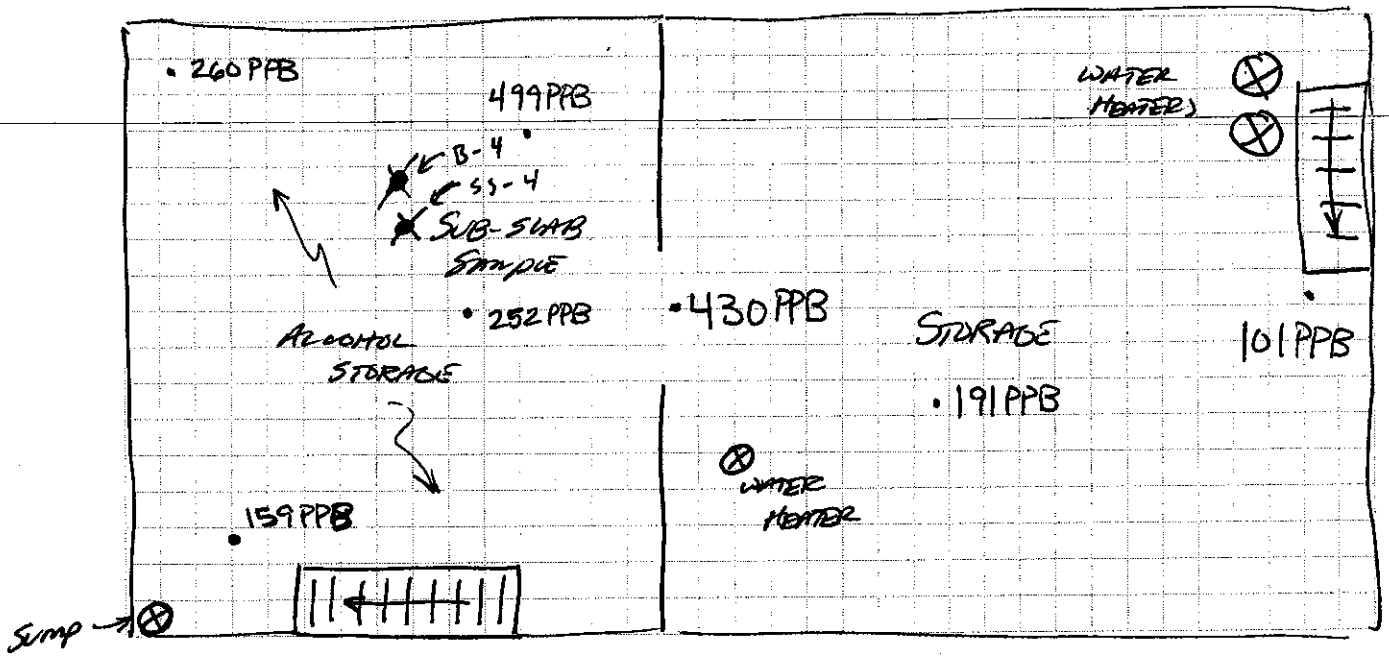
**c. Responsibility for costs associated with reimbursement explained?** Y / N

**d. Relocation package provided and explained to residents?** Y / N

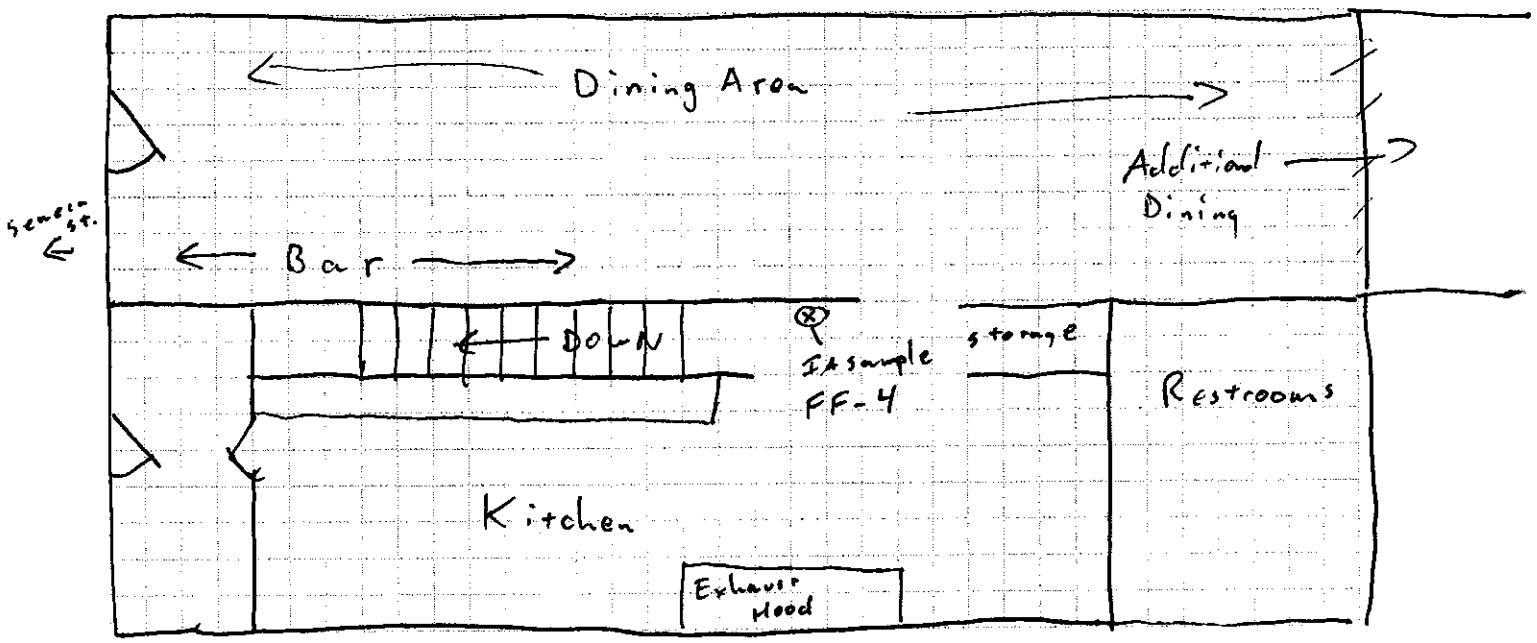
## 11. FLOOR PLANS

**Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.**

**Basement:**



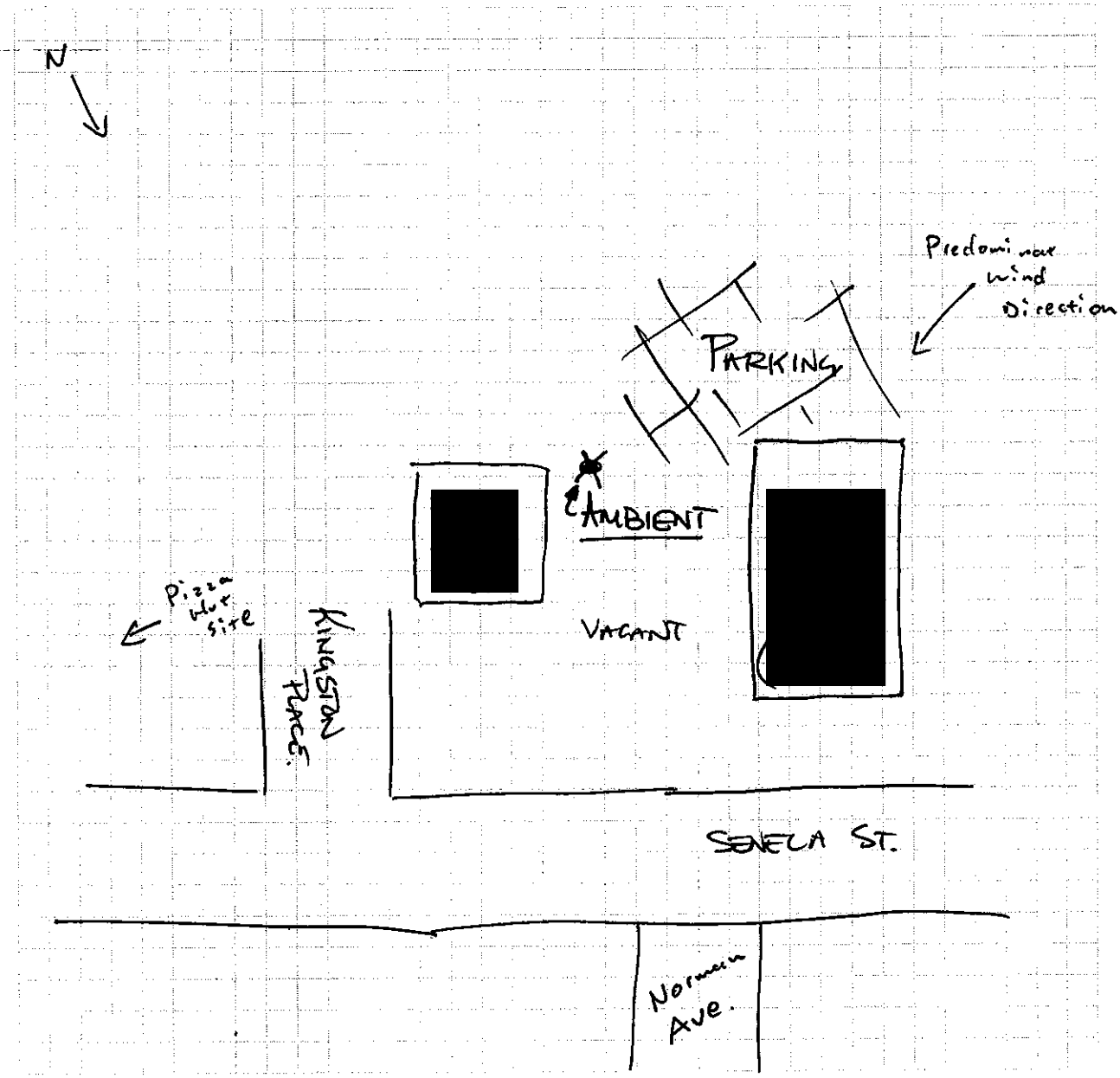

**First Floor:**



**12. OUTDOOR PLOT**

**Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.**

**Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.**



**13. PRODUCT INVENTORY FORM**

**Make & Model of field instrument used:** PPB RAE PLUS

**List specific products found in the residence that have the potential to affect indoor air quality.**

| Location | Product Description | Size (units) | Condition* | Chemical Ingredients | Field Instrument Reading (units) | Photo ** Y / N |
|---|---|---|---|---|---|---|
| B | BEHR 100% ACRYLIC WATER PAINT | 1 GAL (3) | U | NOT LISTED | | |
| | BEHR PVA DRYWALL PRIMER & SEALER | 1 GAL | U | NOT LISTED | | |
| | CHARCOAL STARTER | 32 OZ | U | PETROLEUM DISTILLATES | | |
| | SNB-130 DEGREASER | 1 GAL (4) | U | WATER, SODIUM METASILICATE, POTASSIUM HYDROXIDE | 160-170 PPB | YES |
| | GREASE GOBBLER | 1 GAL (5) | U | NOT LISTED. EMULSO CORP. 301 ELLICOT ST. BUFFALO, NY | | |
| | EMULSO NINETY 999 | 1 GAL (5) | U | NOT LISTED | | |
| | GLENZENE | 1 GAL (5) | U | NOT LISTED - ALL NATURAL | | |
| | HEXZENE NO. 2 | 1 GAL (4) | U | N-ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDES | | |
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* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**

** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

O'BRIEN & GERE

# Multiple Vapor Intrusion Sampling Form

Project # 37211
Project Name Pizza Hut
Date ~~2/27/07~~ 2/27/07
Collector CE/JL

Structure Location
[redacted]
PID/FID meter ID NYSDEC Unit 150764
Sample Duration (Intended) 24 Hr.

Sample Locations
B-5 - South end of Basement
SS-5 - " " " "
FF-5 - In copy room on 1st fl.

| Indoor Air Sample | | Sub-structure Sample | | Circle Sample Type: Indoor Air / SS-DUP / Ambient / IA-DUP | |
|---|---|---|---|---|---|
| Sample ID | B-5-022707 | Sample ID | SS-5-022707 | Sample ID | FF-5-022707 |
| Canister ID | 7525I | Canister ID | 3524I | Canister ID | 34379 |
| Flow Controller ID | 6999 | Flow Controller ID | 34-07 | Flow Controller ID | 6748 |
| Date/Time start | 2/27/07 1549 | Date/Time start | 2/27/07 1549 | Date/Time start | 2/27/07 1551 |
| Date/Time end | 2/28/07 1453 | Date/Time end | 2/28/07 1453 | Date/Time end | 2/28/07 1456 |
| Gauge prior to start | 0" | Gauge prior to start | 0" | Gauge prior to start | 1.5" |
| Start vacuum | 29.5" | Start vacuum | 29.5" | Start vacuum | > 30" |
| End vacuum | 6" | End vacuum | 5" | End vacuum | 5" |
| Complete all that apply: | | Complete all that apply: | | Complete all that apply: | |
| Air temperature (°F) | ~68° | Air temperature (°F) | 68° | Air temperature (°F) | 70° |
| PID/FID reading | 0 ppb | PID/FID reading | NA | PID/FID reading | 0 ppb |
| in. tubing used | None | in. tubing used | 3.5' | in. tubing used | None |
| Tubing purged? | NA | Tubing purged? | 30 cc | Tubing purged? | NA |
| For indoor location: | | For indoor location: | | For outdoor location: | |
| Noticeable odor | No | Noticeable odor | No | Noticeable odor | No |
| Intake height above floor (in) | 36" | Floor slab depth | 2.5" | Distance to road (ft) | 40 |
| Floor surface type | concrete | Intake depth below floor (in) | 1/4" | Direction to closest building (degrees) | |
| Room | Basement | Floor surface type | concrete | Distance to closest building (ft) | |
| Story/level | 1 | Room | Basement | Intake height above ground level (in) | - |
| | - | Story/level | 1 | | |

4' above floor

Building Survey and Chemical Inventory Form Completed? Yes
Photographs Taken? Yes

Comments:

Analytical method required TO-15
Laboratory used Air Toxics

**NEW YORK STATE DEPARTMENT OF HEALTH**
**INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY**
**CENTER FOR ENVIRONMENTAL HEALTH**

This form must be completed for each residence involved in indoor air testing.

Preparer's Name JASON PELTON Date/Time Prepared 2/27/07 1505

Preparer's Affiliation NYSDEC Phone No. (518) 402-9818

Purpose of Investigation PIZZA HUT OFF-SITE SITE CHARACTERIZATION

**1. OCCUPANT:**

**Interviewed:** (Y) N

Last Name: [redacted] First Name: [redacted]

Address: [redacted]

County: ERIE

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location 2 Age of Occupants N/A

**2. OWNER OR LANDLORD:** (Check if same as occupant X)

**Interviewed: Y / N**

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

**3. BUILDING CHARACTERISTICS**

**Type of Building:** (Circle appropriate response)

| | | |
|---|---|---|
| Residential | School | (Commercial/Multi-use) |
| Industrial | Church | Other: _____ |

**If the property is residential, type?** (Circle appropriate response)

| | | |
|---|---|---|
| Ranch | 2-Family | 3-Family |
| Raised Ranch | Split Level | Colonial |
| Cape Cod | Contemporary | Mobile Home |
| Duplex | Apartment House | Townhouses/Condos |
| Modular | Log Home | Other: _____ |

**If multiple units, how many?** Includes 3 apartment units

**If the property is commercial, type?**

Business Type(s) REALTY

Does it include residences (i.e., multi-use)? Y / N If yes, how many? _____

**Other characteristics:**

Number of floors 2 + 3 APT UNITS Building age ~107 YRS old

Is the building insulated? (Y) / N How air tight? Tight / Average / (Not Tight)

**4. AIRFLOW**

**Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:**

Airflow between floors

N/A

Airflow near source

NA

Outdoor air infiltration

N/A

Infiltration into air ducts

NA

## 5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

| | | | | |
|---|---|---|---|---|
| **a. Above grade construction:** | (wood frame) | concrete | stone | brick |
| **b. Basement type:** | (full) - Basement height is approx. 5.5 ft | crawlspace | slab | other _____ |
| **c. Basement floor:** | (concrete) | dirt | stone | other _____ |
| **d. Basement floor:** | (uncovered) | covered | covered with _____ | |
| **e. Concrete floor:** | (unsealed) | sealed | sealed with _____ | |
| **f. Foundation walls:** | poured | block | (stone) | other _____ |
| **g. Foundation walls:** | (unsealed) | sealed | sealed with _____ | |
| **h. The basement is:** | wet | (damp) | dry | moldy |
| **i. The basement is:** | finished | (unfinished) | partially finished | |
| **j. Sump present?** | (Y) N | | | |
| **k. Water in sump?** | Y (N) not applicable | | | |

**Basement/Lowest level depth below grade:** ~6 (feet)

**Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)**

DELAYED CEMENT FLOOR, STONE FOUNDATION WALLS

## 6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

**Type of heating system(s) used in this building: (circle all that apply – note primary)**

| | | | |
|---|---|---|---|
| (Hot air circulation) | Heat pump | Hot water baseboard | |
| Space Heaters | Stream radiation | Radiant floor | |
| Electric baseboard | Wood stove | Outdoor wood boiler | Other _____ |

**The primary type of fuel used is:**

| | | |
|---|---|---|
| (Natural Gas) | Fuel Oil | Kerosene |
| Electric | Propane | Solar |
| Wood | Coal | |

**Domestic hot water tank fueled by:** NATURAL GAS

| | | | | |
|---|---|---|---|---|
| **Boiler/furnace located in:** | (Basement) | Outdoors | Main Floor | Other _____ |
| **Air conditioning:** | Central Air | Window units | Open Windows | (None) |

**Are there air distribution ducts present?** (Y)/N

**Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.**

GOOD CONDITION

## 7. OCCUPANCY

**Is basement/lowest level occupied?** Full-time Occasionally Seldom (Almost Never)

| **Level** | **General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)** |
|---|---|
| Basement | STORAGE, UTILITIES |
| 1st Floor | REALTY OFFICES, BATHROOM |
| 2nd Floor | 3 APARTMENTS, [redacted] |
| 3rd Floor | |
| 4th Floor | |

## 8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

**a. Is there an attached garage?** Y(N)

**b. Does the garage have a separate heating unit?** Y / N(NA)

**c. Are petroleum-powered machines or vehicles stored in the garage** (e.g., lawnmower, atv, car) Y / N /(NA) Please specify

**d. Has the building ever had a fire?** Y(N) When?

**e. Is a kerosene or unvented gas space heater present?** Y / N Where?

**f. Is there a workshop or hobby/craft area?** Y(N) Where & Type?

**g. Is there smoking in the building?** Y(N) How frequently?

**h. Have cleaning products been used recently?** (Y)N When & Type? ROUTINE CLEANING PRODUCTS

**i. Have cosmetic products been used recently?** Y(N) When & Type?

**j. Has painting/staining been done in the last 6 months?** Y (N) Where & When? _____

**k. Is there new carpet, drapes or other textiles?** Y (N) Where & When? _____

**l. Have air fresheners been used recently?** Y (N) When & Type? _____

**m. Is there a kitchen exhaust fan?** Y (N) If yes, where vented? _____

**n. Is there a bathroom exhaust fan?** (Y) N If yes, where vented? OUTSIDE

**o. Is there a clothes dryer?** Y (N) If yes, is it vented outside? Y / N

**p. Has there been a pesticide application?** Y (N) When & Type? _____

**Are there odors in the building?** Y (N)
If yes, please describe: _____

**Do any of the building occupants use solvents at work?** Y (N)
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist

If yes, what types of solvents are used? N/A

If yes, are their clothes washed at work? Y / N

**Do any of the building occupants regularly use or work at a dry-cleaning service?** (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)
Yes, use dry-cleaning infrequently (monthly or less)
Yes, work at a dry-cleaning service
(No)
Unknown

**Is there a radon mitigation system for the building/structure?** Y / (N) Date of Installation: _____
**Is the system active or passive?** Active/Passive

**9. WATER AND SEWAGE**

**Water Supply:** (Public Water) Drilled Well Driven Well Dug Well Other: _____

**Sewage Disposal:** (Public Sewer) Septic Tank Leach Field Dry Well Other: _____

**10. RELOCATION INFORMATION (for oil spill residential emergency)**

**a. Provide reasons why relocation is recommended:** N/A

**b. Residents choose to:** remain in home relocate to friends/family relocate to hotel/motel

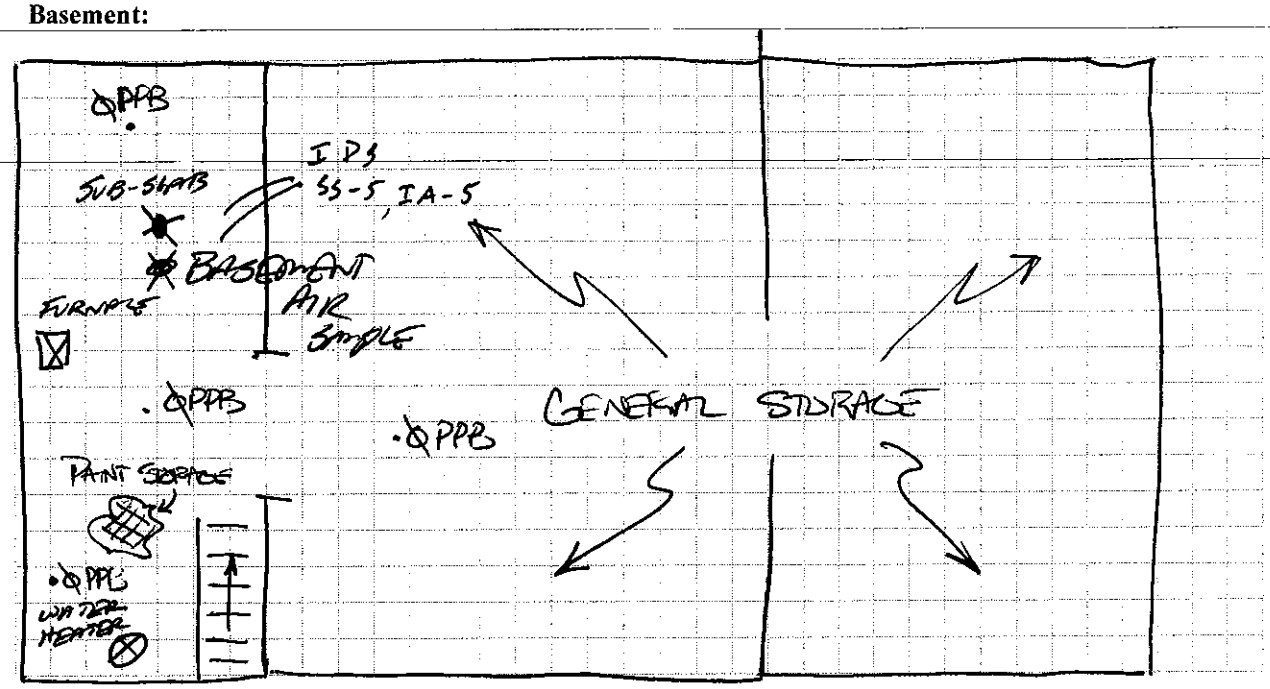
**c. Responsibility for costs associated with reimbursement explained?** Y / N

**d. Relocation package provided and explained to residents?** Y / N

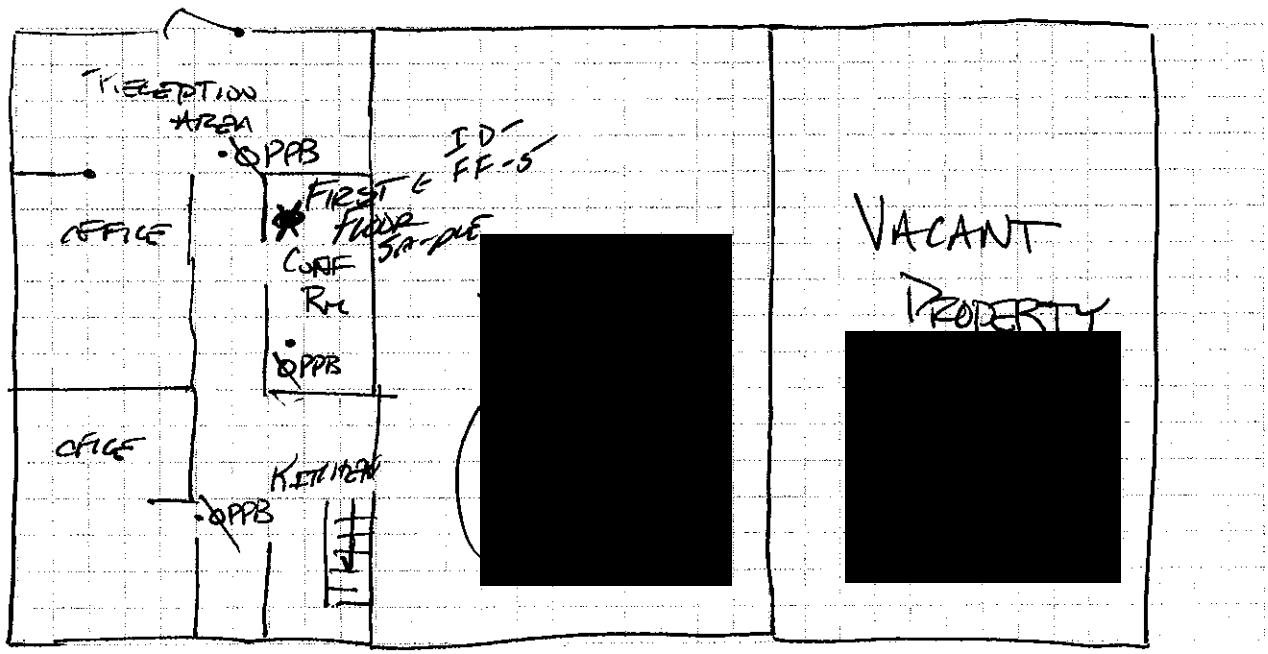
## 11. FLOOR PLANS

**Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.**

**Basement:**



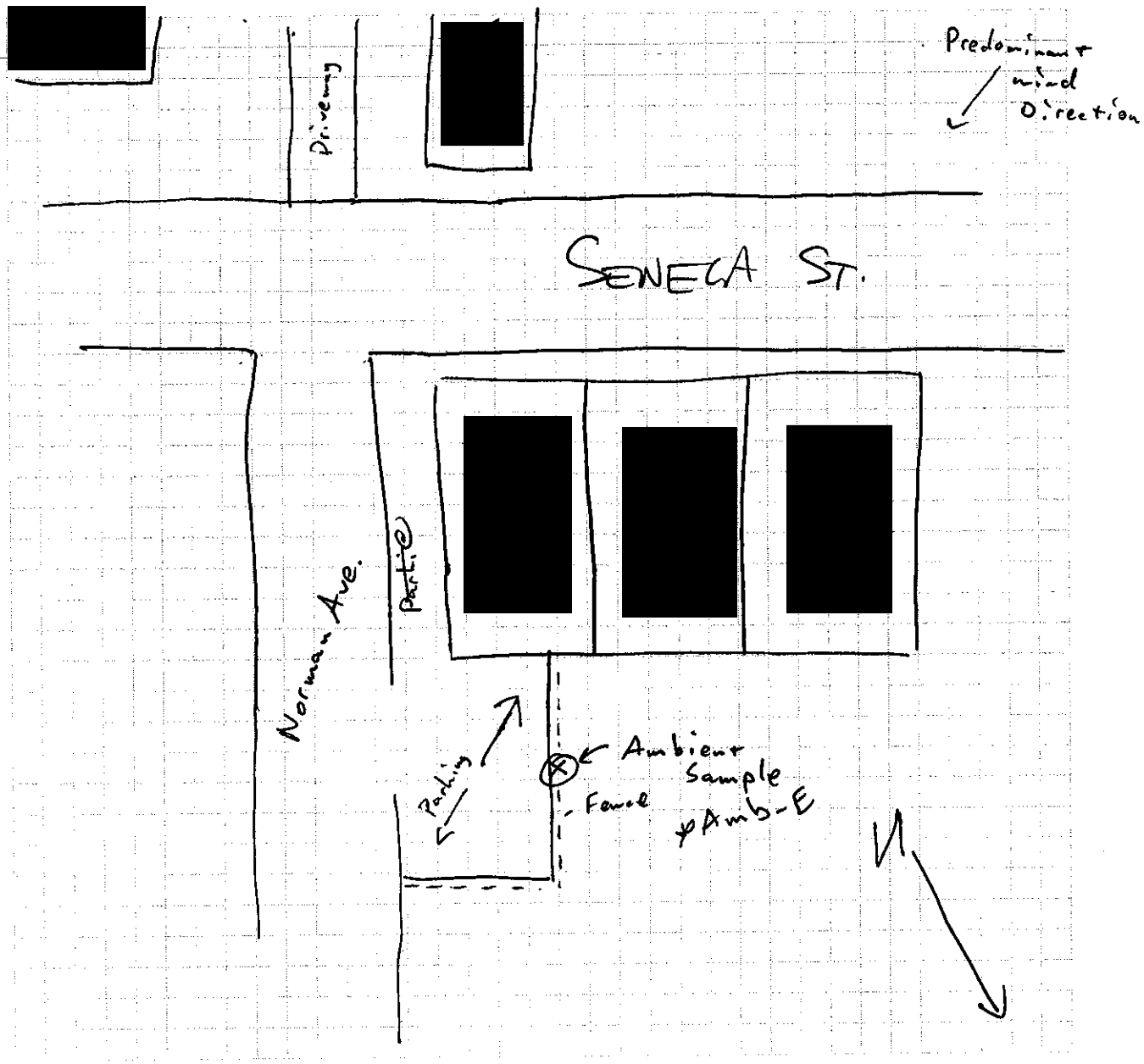

**First Floor:**



## 12. OUTDOOR PLOT

**Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.**

**Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.**



**13. PRODUCT INVENTORY FORM**

**Make & Model of field instrument used:** PPB RAE PLUS

**List specific products found in the residence that have the potential to affect indoor air quality.**

| Location | Product Description | Size (units) | Condition* | Chemical Ingredients | Field Instrument Reading (units) | Photo ** Y / N |
|---|---|---|---|---|---|---|
| B | EXTERIOR LATEX PAINT | 1GAL (9) | U | PRATT + LAMBERT NOT LISTED | 0 | |
| | | | | | | |
| | NO CHEMICALS | STORED | AT 1ST FLOOR | | | |
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* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

O'BRIEN & GERE

# Multiple Vapor Intrusion Sampling Form

Project # 37211
Project Name Pizza Hut
Date 2/27/07
Collector C. Finke

Structure Location
[redacted]
PID/FID meter ID NYSDEC Unit 150764
Sample Duration (Intended) 24 Hr

Sample Locations
FF-2 - On top of bar in middle
SS-2 and B-2 were located in the SW end of the basement

| Basement Indoor Air Sample | | Sub-structure Sample | | Circle Sample Type: Indoor Air (1st Fl.) SS-DUP Ambient IA-DUP | |
|---|---|---|---|---|---|
| Sample ID | B-2-022707 | Sample ID | SS-2-022707 | Sample ID | FF-2-022707 |
| Canister ID | 35991 | Canister ID | 3724 | Canister ID | 33668 |
| Flow Controller ID | 6073 | Flow Controller ID | 5906 | Flow Controller ID | 6255 |
| Date/Time start | 2/27/07 1100 | Date/Time start | 2/27/07 1100 | Date/Time start | 2/27/07 1011 |
| Date/Time end | 2/28/07 1007 | Date/Time end | 2/28/07 1007 | Date/Time end | 2/28/07 1006 |
| Gauge prior to start | 0" Hg | Gauge prior to start | 0" Hg | Gauge prior to start | 0" Hg |
| Start vacuum | 29" | Start vacuum | 30" | Start vacuum | 29.5" |
| End vacuum | 4" | End vacuum | 1" | End vacuum | 4" |
| Complete all that apply: | | Complete all that apply: | | Complete all that apply: | |
| Air temperature (°F) | ~60° | Air temperature (°F) | ~60° | Air temperature (°F) | 67° |
| PID/FID reading | 0ppb | PID/FID reading | NA | PID/FID reading | 0ppb |
| in. tubing used | None | in. tubing used | 3.5 ft | in. tubing used | None |
| Tubing purged? | NA | Tubing purged? | 25 cc | Tubing purged? | NA |
| For indoor location: | | For indoor location: | | For outdoor location: | |
| Noticeable odor | No | Noticeable odor | No | Noticeable odor | No |
| Intake height above floor (in) | 36" | Floor slab depth | 3" | Distance to road (ft) | |
| Floor surface type | Concrete | Intake depth below floor (in) | 1/4" | Direction to closest building (degrees) | |
| Room | SW End - Basement | Floor surface type | Concrete | Distance to closest building (ft) | |
| Story/level | (lowest) | Room | SW End | Intake height above ground level (in) | 70" ~~36"~~ |
| | — | Story/level | Basement | | floor — |

Building Survey and Chemical Inventory Form Completed? Yes
Photographs Taken? Yes

Comments:

Analytical method required TO-15
Laboratory used Air Toxics

**NEW YORK STATE DEPARTMENT OF HEALTH**
**INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY**
**CENTER FOR ENVIRONMENTAL HEALTH**

This form must be completed for each residence involved in indoor air testing.

Preparer's Name JASON PELTON Date/Time Prepared 2/27/07, 11:00

Preparer's Affiliation NYSDEC Phone No. 402-9818

Purpose of Investigation PIZZA HUT OFF-SITE SITE CHARACTERIZATION

**1. OCCUPANT:**

**Interviewed:** Y / N

Last Name: [redacted] First Name: BARBARA

Address: [redacted]

County: _____

Home Phone [redacted] Office Phone: _____

Number of Occupants/persons at this location 2 Age of Occupants _____

**2. OWNER OR LANDLORD:** (Check if same as occupant X)

**Interviewed:** Y / N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

**3. BUILDING CHARACTERISTICS**

**Type of Building:** (Circle appropriate response)

Residential School ~~Commercial/Multi-use~~ * 1 APT. ON 2ND FLOOR
Industrial Church Other: _____

* [redacted] CURRENTLY NOT OPEN

**If the property is residential, type?** (Circle appropriate response)

| | | |
|---|---|---|
| Ranch | 2-Family | 3-Family |
| Raised Ranch | Split Level | Colonial |
| Cape Cod | Contemporary | Mobile Home |
| Duplex | Apartment House | Townhouses/Condos |
| Modular | Log Home | Other: COMMERCIAL |

**If multiple units, how many?** _____

**If the property is commercial, type?**

Business Type(s) [redacted] (CURRENTLY NOT OPEN)

Does it include residences (i.e., multi-use)? (Y) / N If yes, how many? 1 UNIT ON 2ND FLOOR

**Other characteristics:**

Number of floors 2 + ATTIC Building age NOT SURE

Is the building insulated? Y / N NOT SURE How air tight? Tight / (Average) / Not Tight

**4. AIRFLOW**

**Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:**

Airflow between floors

N/A

Airflow near source

Outdoor air infiltration

Infiltration into air ducts

**5. BASEMENT AND CONSTRUCTION CHARACTERISTICS** (Circle all that apply)

| | | | | |
|---|---|---|---|---|
| **a. Above grade construction:** | wood frame | concrete | stone | brick |
| **b. Basement type:** | full | crawlspace | slab | other _____ |
| **c. Basement floor:** | concrete | dirt | stone | other _____ |
| **d. Basement floor:** | uncovered | covered | covered with _____ | |
| **e. Concrete floor:** | unsealed | sealed | sealed with _____ | |
| **f. Foundation walls:** | poured | block | stone | other _____ |
| **g. Foundation walls:** | unsealed | sealed | sealed with _____ | |
| **h. The basement is:** | wet | damp | dry | moldy SOME WATER IN BASEMENT. |
| **i. The basement is:** | finished | unfinished | partially finished | |
| **j. Sump present?** | Y | N | | |
| **k. Water in sump?** | Y / N | not applicable | | |

**Basement/Lowest level depth below grade:** 6 (feet)

**Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)**

FLOOR CRACKS, WALL CRACKS, UTILITY ENTRY POINTS

**6. HEATING, VENTING and AIR CONDITIONING** (Circle all that apply)

**Type of heating system(s) used in this building: (circle all that apply – note primary)**

| | | | |
|---|---|---|---|
| Hot air circulation | Heat pump | Hot water baseboard | |
| Space Heaters | Stream radiation | Radiant floor | |
| Electric baseboard | Wood stove | Outdoor wood boiler | Other _____ |

**The primary type of fuel used is:**

| | | |
|---|---|---|
| Natural Gas | Fuel Oil | Kerosene |
| Electric | Propane | Solar |
| Wood | Coal | |

**Domestic hot water tank fueled by:** 2 TANKS - BOTH NATURAL GAS

**Boiler/furnace located in:** Basement Outdoors Main Floor Other _____

**Air conditioning:** Central Air Window units Open Windows None

**Are there air distribution ducts present?** (Y)/N

**Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.**

DUCTWORK OLD BUT IN GOOD CONDITION

## 7. OCCUPANCY

**Is basement/lowest level occupied?** Full-time Occasionally Seldom (Almost Never)

| **Level** | **General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)** |
|---|---|
| Basement | STORAGE |
| 1st Floor | BAR, BATHROOM (2), KITCHEN |
| 2nd Floor | APARTMENT UNIT |
| 3rd Floor | |
| 4th Floor | |

## 8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

**a. Is there an attached garage?** Y / (N)

**b. Does the garage have a separate heating unit?** Y / N / (NA)

**c. Are petroleum-powered machines or vehicles stored in the garage** (e.g., lawnmower, atv, car) Y / N / (NA) Please specify_____

**d. Has the building ever had a fire?** (Y) N When? ADJACENT BLDG HAD FIRE

**e. Is a kerosene or unvented gas space heater present?** Y (N) Where? _____

**f. Is there a workshop or hobby/craft area?** Y (N) Where & Type? _____

**g. Is there smoking in the building?** Y (N) How frequently? _____

**h. Have cleaning products been used recently?** Y (N) When & Type? _____

**i. Have cosmetic products been used recently?** Y (N) When & Type? _____

**j. Has painting/staining been done in the last 6 months?** (Y) N Where & When? ~6 MONTHS AGO PAINTING

**k. Is there new carpet, drapes or other textiles?** (Y) N Where & When? 2ND FLOOR CARPET & DRAPES

**l. Have air fresheners been used recently?** Y (N) When & Type? _____

**m. Is there a kitchen exhaust fan?** (Y) N If yes, where vented? OUTSIDE

**n. Is there a bathroom exhaust fan?** (Y) N If yes, where vented? OUTSIDE

**o. Is there a clothes dryer?** Y (N) If yes, is it vented outside? Y / N

**p. Has there been a pesticide application?** Y (N) When & Type? _____

**Are there odors in the building?** Y (N)
If yes, please describe: _____

**Do any of the building occupants use solvents at work?** Y (N)
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist

If yes, what types of solvents are used? N/A

If yes, are their clothes washed at work? Y / N

**Do any of the building occupants regularly use or work at a dry-cleaning service?** (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly) (No)
Yes, use dry-cleaning infrequently (monthly or less) Unknown
Yes, work at a dry-cleaning service

**Is there a radon mitigation system for the building/structure?** Y (N) Date of Installation: _____
**Is the system active or passive?** Active/Passive

**9. WATER AND SEWAGE**

**Water Supply:** (Public Water) Drilled Well Driven Well Dug Well Other: _____

**Sewage Disposal:** (Public Sewer) Septic Tank Leach Field Dry Well Other: _____

**10. RELOCATION INFORMATION (for oil spill residential emergency)**

**a. Provide reasons why relocation is recommended:** N/A

**b. Residents choose to:** remain in home relocate to friends/family relocate to hotel/motel

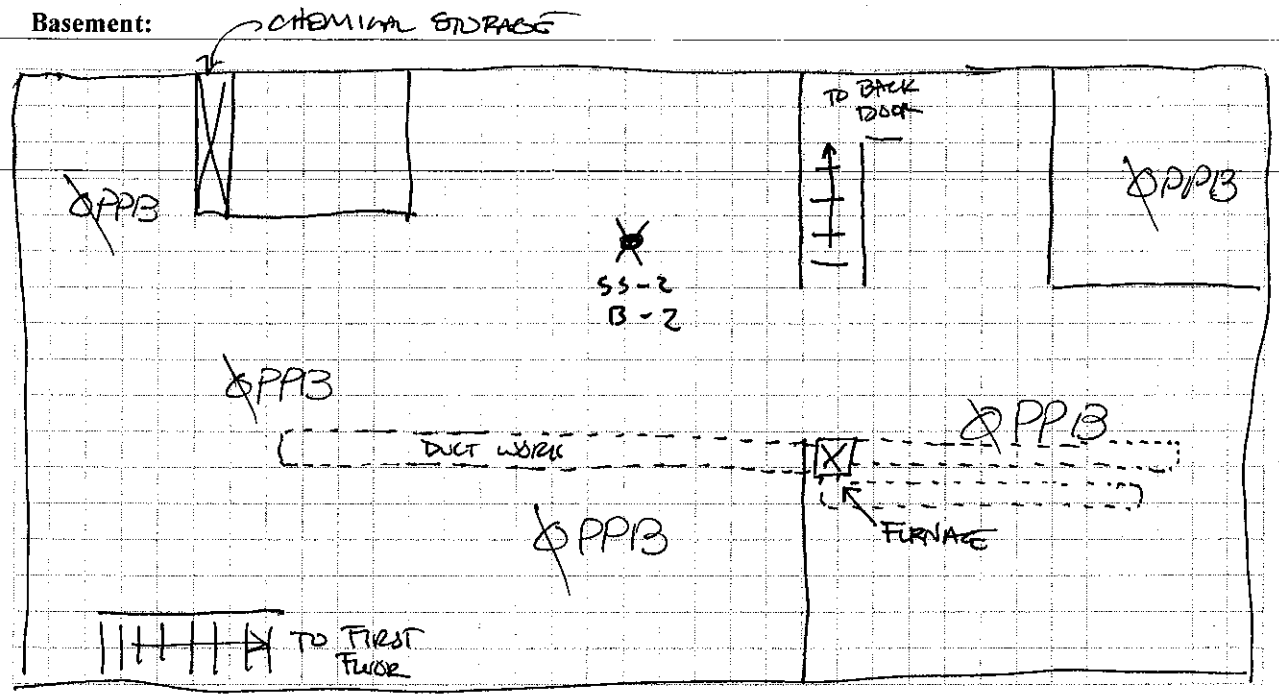
**c. Responsibility for costs associated with reimbursement explained?** Y / N

**d. Relocation package provided and explained to residents?** Y / N

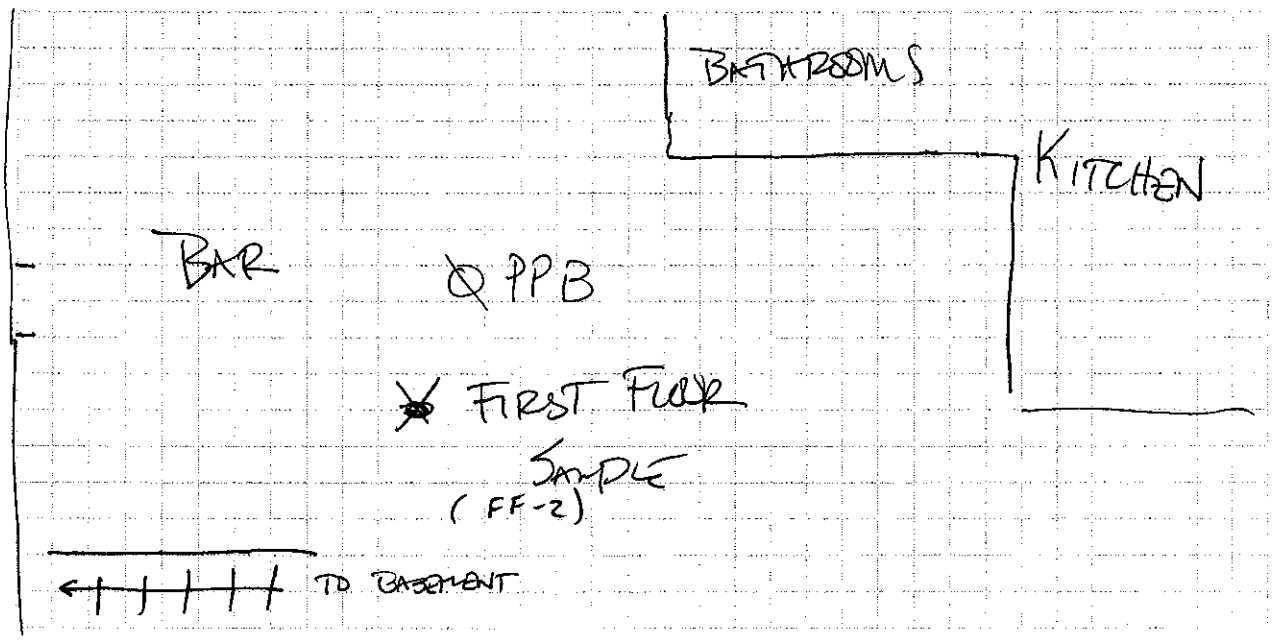
**11. FLOOR PLANS**

**Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.**

**Basement:**



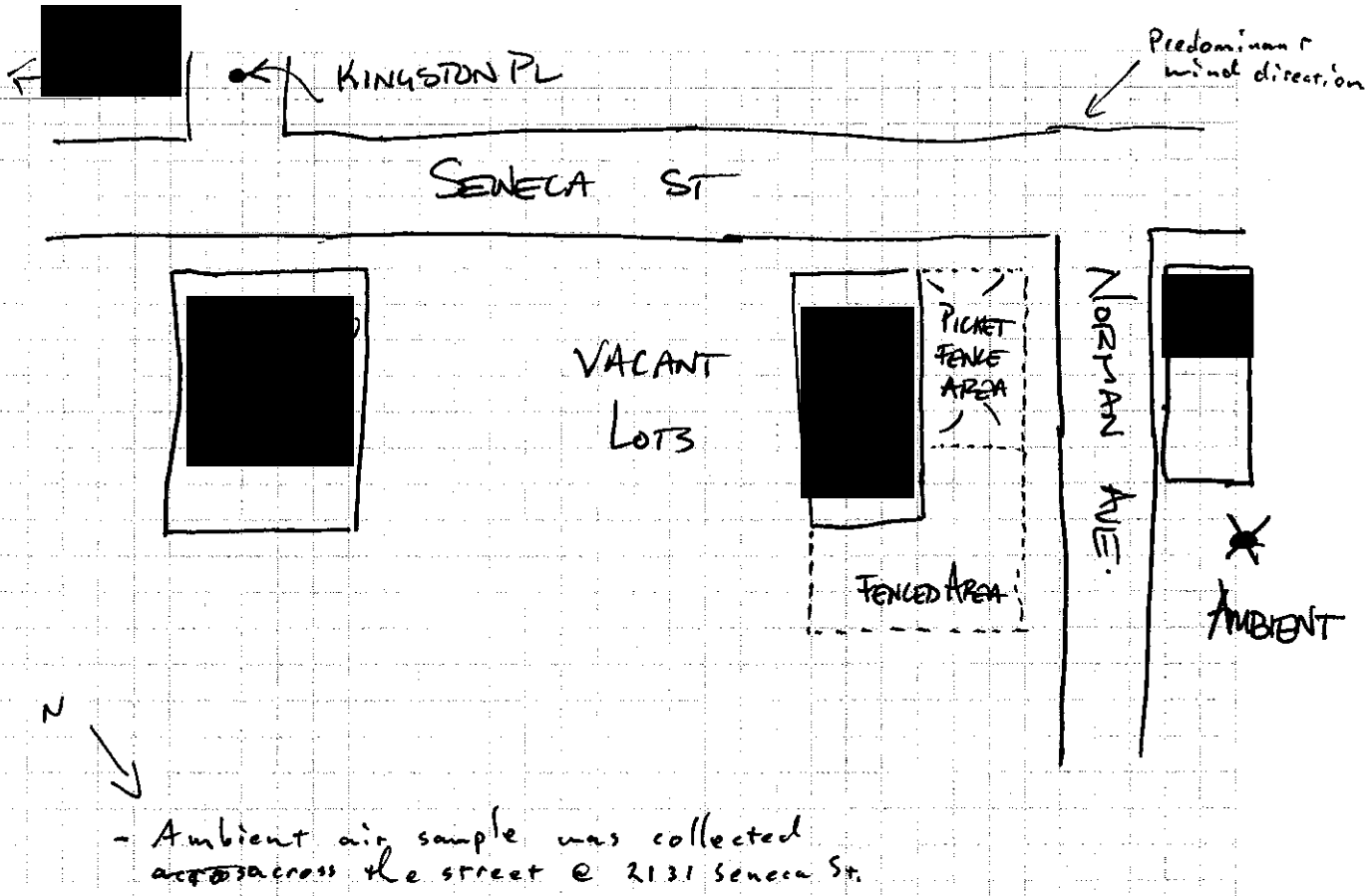

**First Floor:**



**12. OUTDOOR PLOT**

**Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.**

**Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.**




- Ambient air sample was collected across the street @ 2131 Seneca St.

**13. PRODUCT INVENTORY FORM**

**Make & Model of field instrument used:** PPB RAE PLUS

* No CHEMICALS ON 1ST FLOOR

**List specific products found in the residence that have the potential to affect indoor air quality.**

| Location | Product Description | Size (units) | Condition* | Chemical Ingredients | Field Instrument Reading (units) | Photo ** Y / N |
|---|---|---|---|---|---|---|
| B | PRE PASTED WALL PAPER CH-70 | 1 GAL | U | NOT LISTED WWW. ROMAN DECORATING PRODUCTS. COM | Ø | |
| ↓ | ZINSSER DIF WALL PAPER STRIPPER | 32 OZ | U | SODIUM HYDROXIDE | Ø | |
| | INTERIOR LATEX PAINT | 1 (11) GAL | U | | 3-12 PPB | |
| | GAS CAN (EMPTY) | 2 GAL | U | GAS CAN OPEN | 2,490PPB | |
| | AMES SPRAY ENAMEL | 10 OZ | U | TOLUENE, ACETONE, & XYLENE | 7,266 PPB | |
| | GIZZAT STUFF SPRAY INSULATION | 12 OZ | U | NOT LISTED | Ø | |
| | | | | | | |
| | | | | | | |
| * | NO CHEMICALS | STORED | ON | FIRST FLOOR | | |
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* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

O'BRIEN & GERE

# Multiple Vapor Intrusion Sampling Form

Project # 37211
Project Name Pizza Hut
Date 2/27/07
Collector C. Finke

Structure Location
[redacted]

Sample Locations
All samples located in the south, central, storage room.

PID/FID meter ID NYSDEC Unit 150764
Sample Duration (Intended) 24 Hr.

| Indoor Air Sample | Sub-structure Sample | Circle Sample Type: Indoor Air (2) SS-DUP Ambient IA-DUP |
|---|---|---|
| Sample ID FF-3-022707 | Sample ID SS-3-022707 | Sample ID FF-DUP-022707 |
| Canister ID 33891 | Canister ID 20994 | Canister ID 1618 |
| Flow Controller ID 6966 | Flow Controller ID 6969 | Flow Controller ID 04-10 |
| Date/Time start 2/27/07 1205 | Date/Time start 2/27/07 1207 | Date/Time start 2/27/07 1205 |
| Date/Time end 2/28/07 1101 | Date/Time end 2/28/07 1103 | Date/Time end 2/28/07 1101 |
| Gauge prior to start 0" Hg | Gauge prior to start 0" Hg | Gauge prior to start 0" |
| Start vacuum 28" | Start vacuum 30" | Start vacuum 30" |
| End vacuum 4" | End vacuum 4" | End vacuum 0.5" |
| Complete all that apply: | Complete all that apply: | Complete all that apply: |
| Air temperature (°F) ~50° | Air temperature (°F) ~50° | Air temperature (°F) |
| PID/FID reading 0 ppb | PID/FID reading NA | PID/FID reading |
| in. tubing used None | in. tubing used 3.5 ft | in. tubing used |
| Tubing purged? NA | Tubing purged? 25cc | Tubing purged? |
| For indoor location: | For indoor location: | For outdoor location: |
| Noticeable odor No | Noticeable odor No | Noticeable odor |
| Intake height above floor (in) 36" | Floor slab depth 3.5" | Distance to road (ft) |
| Floor surface type Tile over Concrete | Intake depth below floor (in) Tile over concrete @ | Direction to closest building (degrees) |
| Room South storage room | Floor surface type 1/4" (e) | Distance to closest building (ft) |
| Story/level On-Grade | Room South Storage | Intake height above ground level (in) |
| – | Story/level On-Grade | |

Building Survey and Chemical Inventory Form Completed? Yes
Photographs Taken? Yes

Comments: Samples were collected early due to FF-DUP final vacuum (0.5").

Analytical method required TO-15
Laboratory used Air Toxics

OSR – 3

**NEW YORK STATE DEPARTMENT OF HEALTH**
**INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY**
**CENTER FOR ENVIRONMENTAL HEALTH**

This form must be completed for each residence involved in indoor air testing.

Preparer's Name JASON PELTON Date/Time Prepared 2/27/2007 1120

Preparer's Affiliation NYSDEC Phone No. 402-9818

Purpose of Investigation PIZZA HUT OFF-SITE SITE CHARACTERIZATION

**1. OCCUPANT:**

**Interviewed: (Y) N**

Last Name: [redacted] First Name: [redacted]

Address: [redacted]

County: ERIE

Home Phone: _____ Office Phone (w) [redacted]

Number of Occupants/persons at this location 8 Age of Occupants N/A

**2. OWNER OR LANDLORD:** (Check if same as occupant ___)

**Interviewed: Y / N**

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

**3. BUILDING CHARACTERISTICS**

**Type of Building:** (Circle appropriate response)

| | | |
|---|---|---|
| Residential | School | (Commercial/Multi-use) |
| Industrial | Church | Other: _____ |

**If the property is residential, type?** (Circle appropriate response)

| | | |
|---|---|---|
| Ranch | 2-Family | 3-Family |
| Raised Ranch | Split Level | Colonial |
| Cape Cod | Contemporary | Mobile Home |
| Duplex | Apartment House | Townhouses/Condos |
| Modular | Log Home | Other: Commercial / Retail |

**If multiple units, how many?** _____

**If the property is commercial, type?**

Business Type(s) [redacted] BRAND NAME CLOTHING

Does it include residences (i.e., multi-use)? Y / (N) If yes, how many? _____

**Other characteristics:**

Number of floors 1 Building age NOT SURE

Is the building insulated? (Y) / N How air tight? Tight / (Average) / Not Tight

## 4. AIRFLOW

**Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:**

Airflow between floors

N/A

Airflow near source

Outdoor air infiltration

Infiltration into air ducts

**5. BASEMENT AND CONSTRUCTION CHARACTERISTICS** (Circle all that apply)

| | | | | |
|---|---|---|---|---|
| **a. Above grade construction:** | wood frame | concrete | stone | brick |
| **b. Basement type:** | full | crawlspace | slab | other No Basement |
| **c. Basement floor:** | concrete | dirt | stone | other N/A |
| **d. Basement floor:** | uncovered | covered | covered with N/A | |
| **e. Concrete floor:** | unsealed | sealed | sealed with N/A | |
| **f. Foundation walls:** | poured | block | stone | other N/A |
| **g. Foundation walls:** | unsealed | sealed | sealed with N/A | |
| **h. The basement is:** | wet | damp | dry | moldy N/A |
| **i. The basement is:** | finished | unfinished | partially finished | N/A |
| **j. Sump present?** | Y / N N/A | | | |
| **k. Water in sump?** | Y / N / not applicable N/A | | | |

**Basement/Lowest level depth below grade:** N/A (feet)

**Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)**

SLAB IS COVERED WITH EITHER TILE OR CARPET

**6. HEATING, VENTING and AIR CONDITIONING** (Circle all that apply)

**Type of heating system(s) used in this building: (circle all that apply – note primary)**

| | | | |
|---|---|---|---|
| Hot air circulation | Heat pump | Hot water baseboard | |
| Space Heaters | Stream radiation | Radiant floor | |
| Electric baseboard | Wood stove | Outdoor wood boiler | Other _____ |

**The primary type of fuel used is:**

| | | |
|---|---|---|
| Natural Gas | Fuel Oil | Kerosene |
| Electric | Propane | Solar |
| Wood | Coal | |

**Domestic hot water tank fueled by:** ELECTRIC

**Boiler/furnace located in:** Basement Outdoors Main Floor Other _____

**Air conditioning:** Central Air Window units Open Windows None

**Are there air distribution ducts present?** (Y) N

**Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.**

EXCELLENT CONDITION, COLD AIR RETURN PRESENT.

## 7. OCCUPANCY

**Is basement/lowest level occupied?** Full-time Occasionally Seldom Almost Never N/A

| **Level** | **General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)** |
|---|---|
| Basement | N/A |
| 1st Floor | RETAIL STORE, BATHROOMS (2), STORAGE |
| 2nd Floor | N/A |
| 3rd Floor | N/A |
| 4th Floor | N/A |

## 8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

**a. Is there an attached garage?** Y / (N)

**b. Does the garage have a separate heating unit?** Y / N / (NA)

**c. Are petroleum-powered machines or vehicles stored in the garage** (e.g., lawnmower, atv, car) Y / N / (NA) Please specify_____

**d. Has the building ever had a fire?** Y / (N) When?_____

**e. Is a kerosene or unvented gas space heater present?** Y / (N) Where?_____

**f. Is there a workshop or hobby/craft area?** Y / (N) Where & Type?_____

**g. Is there smoking in the building?** Y / (N) How frequently?_____

**h. Have cleaning products been used recently?** (Y) N When & Type? STANDARD CLEANERS

**i. Have cosmetic products been used recently?** Y / (N) When & Type?_____

**j. Has painting/staining been done in the last 6 months?** Y / (N) Where & When? _____

**k. Is there new carpet, drapes or other textiles?** Y / (N) Where & When? _____

**l. Have air fresheners been used recently?** Y / (N) When & Type? _____

**m. Is there a kitchen exhaust fan?** Y / (N) If yes, where vented? _____

**n. Is there a bathroom exhaust fan?** (Y) / N If yes, where vented? OUTSIDE

**o. Is there a clothes dryer?** Y / (N) If yes, is it vented outside? Y / N

**p. Has there been a pesticide application?** Y / (N) When & Type? _____

**Are there odors in the building?** Y / (N)
If yes, please describe: _____

**Do any of the building occupants use solvents at work?** Y / (N)
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist

If yes, what types of solvents are used? N/A

If yes, are their clothes washed at work? Y / N

**Do any of the building occupants regularly use or work at a dry-cleaning service?** (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly) (No)
Yes, use dry-cleaning infrequently (monthly or less) Unknown
Yes, work at a dry-cleaning service

**Is there a radon mitigation system for the building/structure?** Y / (N) Date of Installation: _____
**Is the system active or passive?** Active/Passive

**9. WATER AND SEWAGE**

**Water Supply:** (Public Water) Drilled Well Driven Well Dug Well Other: _____

**Sewage Disposal** (Public Sewer) Septic Tank Leach Field Dry Well Other: _____

**10. RELOCATION INFORMATION (for oil spill residential emergency)**

**a. Provide reasons why relocation is recommended:** N/A

**b. Residents choose to:** remain in home relocate to friends/family relocate to hotel/motel

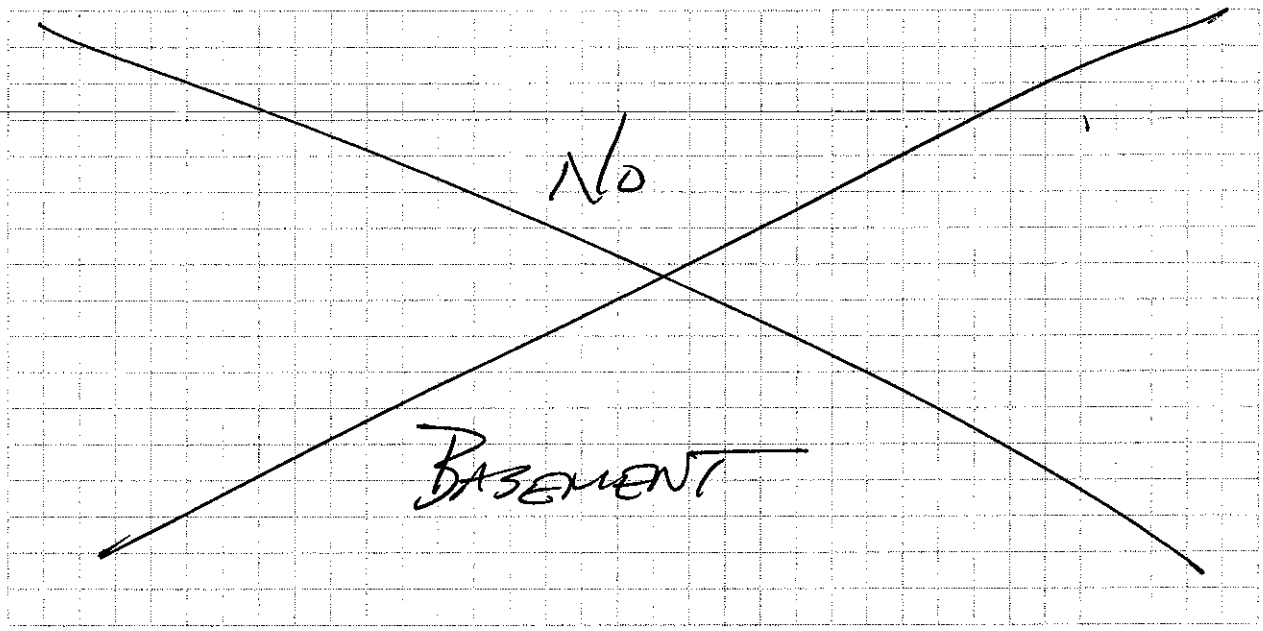
**c. Responsibility for costs associated with reimbursement explained?** Y / N

**d. Relocation package provided and explained to residents?** Y / N

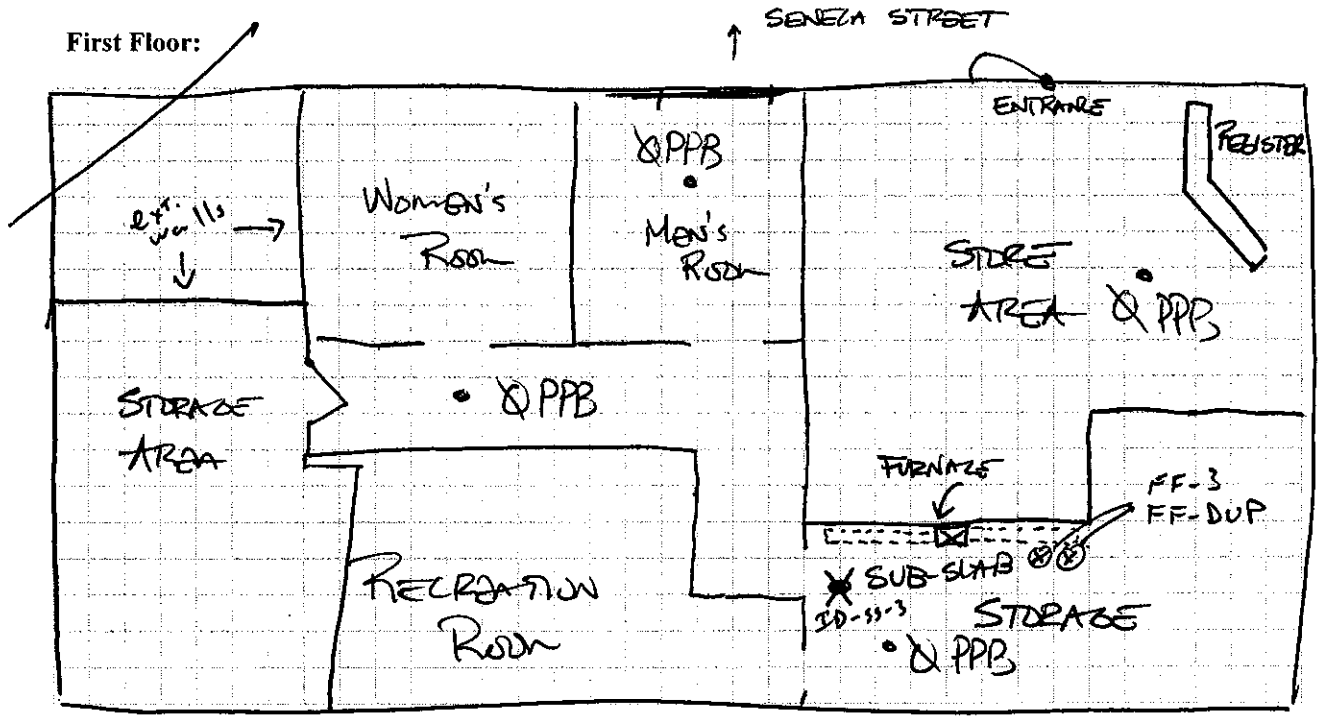
**11. FLOOR PLANS**

**Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.**

**Basement:** N/A



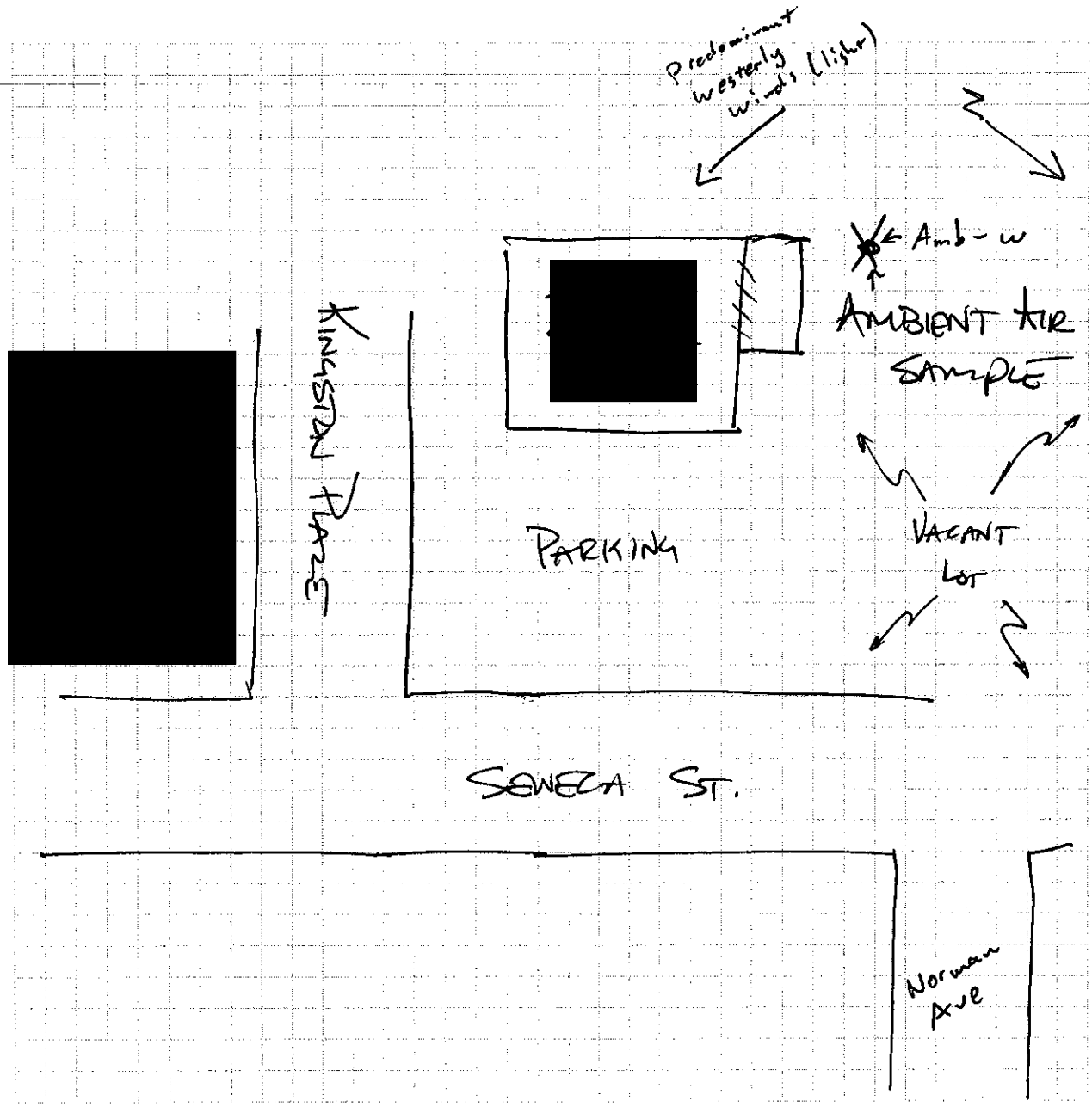

**First Floor:**



**12. OUTDOOR PLOT**

**Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.**

**Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.**



**13. PRODUCT INVENTORY FORM**

**Make & Model of field instrument used:** PPB RAE PLUS

**List specific products found in the residence that have the potential to affect indoor air quality.**

| Location | Product Description | Size (units) | Condition* | Chemical Ingredients | Field Instrument Reading (units) | Photo** Y / N |
|---|---|---|---|---|---|---|
| FF | MASONRY, STUCCO + BRICK PAINT | 1 GAL | U | ETHYLENE GLYCOL | 0 | N |
| ↓ | PINE-SOL | 1.12 GAL | U | PINE OIL, DETERGENTS + OTHER CLEANING AGENTS | 0 | N |
| ↓ | MIN WAX POLYCRYLIC FINISH | 11.5 OZ | U | NOT LISTED, BUT CONTAINS SOLVENTS | 0 | N |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | NO BASEMENT | | | [redacted] | | |
| | | | | | | |
| | | | | | | |
| | KEROSENE | | | | | |
| | * ~~GAS~~ POWERED | | FORCED AIR | HEATER | 34 PPM | |
| | STORED IN REAR OF BUILDING. | | | | NEAR FILL POINT. | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

O'BRIEN & GERE

# Multiple Vapor Intrusion Sampling Form

Project # 37211
Project Name Pizza Hut
Date 2/27/07
Collector C. Finke

Structure Location
[redacted]
PID/FID meter ID NYSDEC Unit 150764
Sample Duration (Intended) 24 hr

Sample Locations
See Building Surveys for detail
- Amb-E was located near 2118 Seneca
- Amb-W was located near 2131 Seneca

| Indoor Air Sample | ~~Sub-structure Sample~~ Ambient | Circle Sample Type: Indoor Air / SS-DUP / Ambient / IA-DUP |
|---|---|---|
| Sample ID | Sample ID Amb-E-022707 | Sample ID Amb-W-022707 |
| Canister ID | Canister ID 33378 | Canister ID 1258 |
| Flow Controller ID | Flow Controller ID 6957 | Flow Controller ID 03-42 |
| Date/Time start | Date/Time start 2/27/07 1603 | Date/Time start 2/27/07 1219 |
| Date/Time end | Date/Time end 2/28/07 1635 | Date/Time end 2/28/07 1230 |
| Gauge prior to start | Gauge prior to start 0" Hg | Gauge prior to start 0" Hg |
| Start vacuum | Start vacuum 29.5" | Start vacuum 29.5" |
| End vacuum | End vacuum 8.5" | End vacuum 4" |
| Complete all that apply: | Complete all that apply: | Complete all that apply: |
| Air temperature (°F) | Air temperature (°F) | Air temperature (°F) |
| PID/FID reading | PID/FID reading 0 ppb | PID/FID reading 0 ppb |
| in. tubing used | in. tubing used 0 | in. tubing used 0 |
| Tubing purged? | Tubing purged? NA | Tubing purged? NA |
| For indoor location: | For indoor location: | For outdoor location: |
| Noticeable odor | Noticeable odor | Noticeable odor No |
| Intake height above floor (in) | Floor slab depth | Distance to road (ft) - |
| Floor surface type | Intake depth below floor (in) | Direction to closest building (degrees) - |
| Room | Floor surface type | Distance to closest building (ft) - |
| Story/level | Room | Intake height above ground level (in) East 60" / West 48" |
| | Story/level | |

Building Survey and Chemical Inventory Form Completed? NA
Photographs Taken? Yes

Comments: Amb-E was installed downwind of the structures sampled while Amb-W was installed upwind

Analytical method required TO-15
Laboratory used Air Toxics